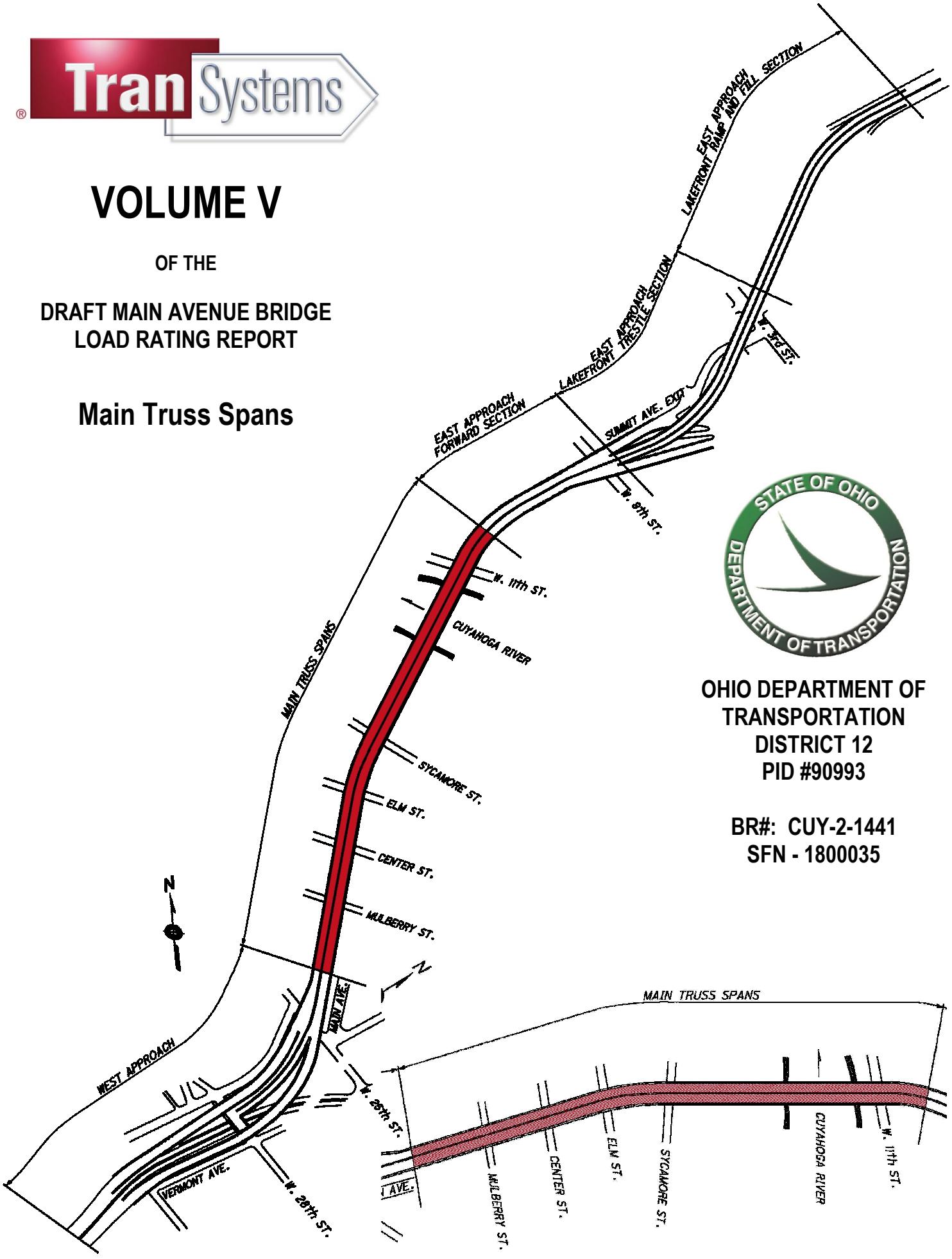
TranSystems

VOLUME V

OF THE

DRAFT MAIN AVENUE BRIDGE LOAD RATING REPORT

Main Truss Spans



STATE OF OHIO DEPARTMENT OF TRANSPORTATION

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 12
PID #90993

BR#: CUY-2-1441
SFN - 1800035

Volume V - Section Description

The CUY-2-1441 (Main Avenue) Bridge carries four to six lanes of State Route 2 traffic for 6580 feet through downtown Cleveland, over numerous local streets, RTA railroad tracks, Norfolk Southern/CSX railroad tracks and the Cuyahoga River. The bridge was fabricated and erected from 1938 to 1940. The West Approach, Main Truss Spans, and East Approach – Forward sections were opened to traffic on October 6, 1939; and the Lakefront Trestle and Lakefront Ramp were opened to traffic in 1940. The bridge was closed for a major rehabilitation project from April 13, 1991 to October 6, 1992. Work included replacing and widening of the deck, updating safety features, improving the drainage system, installing new floor system members, and strengthening or replacing deteriorated sections. The Main Avenue Bridge consists of five distinct sections (West Approach, Main Truss Spans, East Approach – Forward Section, East Approach – Lakefront Trestle, East Approach – Lakefront Ramp Section) of varying structure types within each section.

Starting at the termination of the West Approach Section, the Main Truss Spans carry six lanes of traffic over the east and west banks of the Flats to near West 10th Street. The Main Truss Spans section consists of a 10-span cantilevered modified Pratt deck truss. The cantilevered deck truss chord members are composed of riveted built-up box sections that support a mixture of riveted built-up floorbeams and welded plate floorbeams. Rolled stringers rest on top of the floorbeams, and frame into the floorbeam cantilevers. The truss spans contain varying numbers of stringer units and within the units the stringers are simple span, 2-span continuous or 3-span continuous. The stringer spans are typically 20'-0". Truss web members typically consist of rolled sections. The truss spans vary between 200'-0" and 400'-0". The North and South Truss are typically spaced at 50'-0" center to center.

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Appendix A – Truss Section Properties (electronic)

BRIDGE LOAD RATING SUMMARY REPORT

CUY-2-1441

MAIN TRUSS

SFN	BRIDGE NUMBER	DISTRICT
1800035	CUY-2-1441	12
ORIGINAL CONSTRUCTION YEAR	**REHABILITATION YEAR**	**OVERALL STRUCTURE LENGTH (FT)**
1938 - 1940	1991 - 1992	6580
FEATURE INTERSECTED:	NUMEROUS LOCAL STREETS, RTA RAILROAD TRACKS AND THE CUYAHOGA RIVER	
SPECIAL ASSUMPTIONS & COMMENTS		
RATING & ANALYSIS OPTION:		
LOAD RATING PURPOSE:	LOAD RATING FOR FUTURE REHABILITATION RECOMMENDATIONS	
RATING SOFTWARE:	STAAD	
BASIS OF ANALYSIS:		
METHOD OF ANALYSIS:	LOAD FACTOR	
DESIGN LOADING (ORIGINAL):	H20-33	

STRUCTURE RATING SUMMARY

LOADING & RATING TYPE	RATING FACTOR - RF (ROUNDED TO 2 DECIMAL POINTS	RATING LOAD
INVENTORY CURRENT DESIGN	0.62	HS12.4
OPERATING CURRENT DESIGN	0.92	
OHIO LEGAL - 2F1	1.5	**OHIO LEGAL LOADS OVERALL MINIMUM RATING FACTOR**
OHIO LEGAL - 3F1	1.14	1.01
OHIO LEGAL - 4F1	1.01	**OHIO LEGAL LOADS OVERALL CONTROLLING TRUCK**
OHIO LEGAL - 5C1	1.14	4F1

RATED BY, PE#	REVIEWED BY, PE#	REPORT DATE
Anthony Koloze, PE	Wesley Weir, PE	4/3/2012
AGENCY/FIRM	**PHONE NUMBER**	**EMAIL**
TranSystems	216-861-1780	wrweir@transystems.com

SFN: 1800035 **BRIDGE NO.:** CUY-2-1441

SUMMARY SHEET

Main Truss

CUY-2-1441 Load Rating Analysis — Calculated: SFH — Revised: DWC
Main Ave Bridge — Checked: ADK

As-Built Controlling Rating Factor Summary

Item	Location/Member	HS20 Inventory	HS20 Operating	2F1 Operating	3F1 Operating	4F1 Operating	5C1 Operating	Truck Train HS-20 Operating	Truck Train 5C-1 Operating
Deck	Deck	0.95	1.58	2.54	2.98	3.62	2.98	N/A	N/A
Stringers	Spans 5 & 10 Simple	0.70	**0.92**	**1.50**	**1.14**	**1.01**	**1.14**	N/A	N/A
Floorbeam Bracket	South Bracket 126	0.71	1.19	2.29	1.54	1.36	1.59	N/A	N/A
Floorbeam	Floorbeam 118	0.76	1.27	2.46	1.65	1.45	1.70	N/A	N/A
South Truss	L19-L20	1.02	1.71	---	---	---	---	1.69	1.87
	L20-L21	---	---	4.97	3.30	2.85	2.23	---	---
	U57-U58	0.72	1.20	3.97	2.60	2.23	1.69	1.33	1.44
	U0-L0	0.75	1.25	2.97	1.99	1.74	1.33	1.12	1.25
	U28-L27	---	---	4.49	3.00	2.62	---	---	---
	U112-L113	0.92	1.53	---	---	---	2.24	1.68	1.76
North Truss	L61-L62	**0.66**	1.10	4.46	2.92	2.50	1.84	1.20	1.33
	U34-U35	1.11	1.86	---	---	---	---	---	---
	U45-U46	---	---	4.36	2.88	2.50	2.16	1.93	2.14
	U0-L0	0.75	1.25	2.97	1.98	1.73	1.33	**1.11**	**1.25**
	U47-L46	---	---	4.43	2.96	2.59	---	---	---
	U52-L53	0.96	1.60	---	---	---	1.99	1.65	1.78

As-Inspected Controlling Rating Factor Summary

Item	Location/Member	HS20 Inventory	HS20 Operating	2F1 Operating	3F1 Operating	4F1 Operating	5C1 Operating	Truck Train HS-20 Operating	Truck Train 5C-1 Operating
Deck	Deck	0.95	1.58	2.54	2.98	3.62	2.98	N/A	N/A
Stringers	Spans 5 & 10 Simple	0.70	**0.92**	**1.50**	**1.14**	**1.01**	**1.14**	N/A	N/A
Bracket	South Bracket 126	0.71	1.19	2.29	1.54	1.36	1.59	N/A	N/A
Floorbeam	Floorbeam 118	0.76	1.27	2.46	1.65	1.45	1.70	N/A	N/A
South Truss	L94-L95	0.82	1.37	3.92	2.57	2.21	1.68	1.31	1.47
	U57-U58	0.72	1.21	3.98	2.61	2.24	1.69	1.34	1.45
	U0-L0	0.75	1.25	2.97	1.99	1.74	1.33	1.12	1.25
	U27-L26	0.78	1.30	2.80	1.88	1.66	1.58	1.30	1.60
North Truss	L61-L62	0.66	1.10	4.46	2.92	2.50	1.84	1.20	1.33
	U52-U53	1.08	---	---	---	---	---	---	1.99
	U66-U67	---	1.80	4.28	2.80	2.43	2.00	1.74	---
	U48-L48	**0.64**	1.06	2.54	1.68	1.46	1.14	**0.95**	**1.08**
	U52-L53	0.64	1.07	3.00	1.99	1.73	1.33	1.10	1.18

Controlling Fatigue As-Inspected

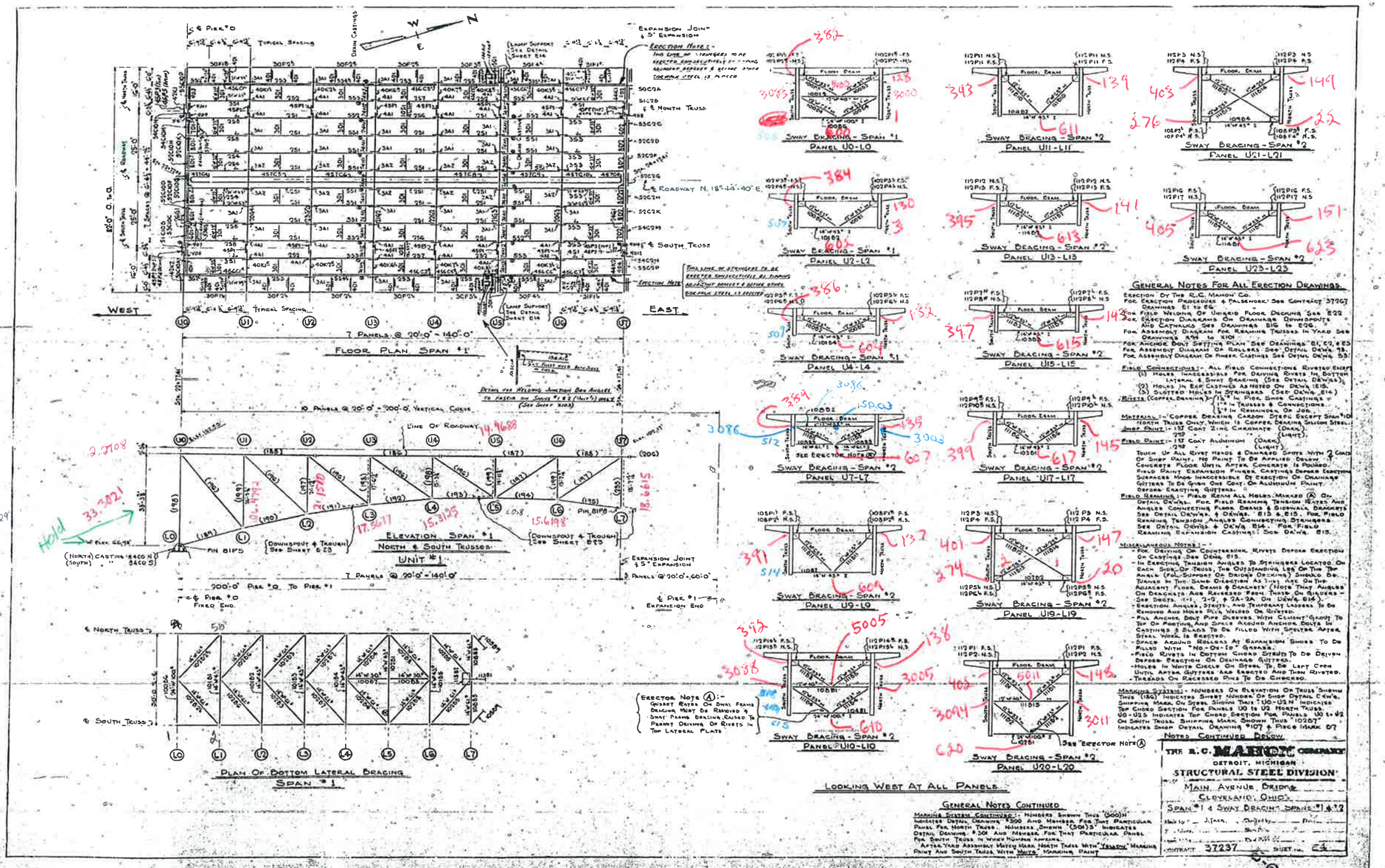
Item	Location/Member	Fatigue
Stringer	S7-7	171 Years
Floorbeam	South Bracket 126	105 Years
Truss	North U16-L17	51 Years

Overall Summary

Case	Rating Factor	Tonnage	HS equivalent or Ohio Legal Load %
HS20 Inventory	0.64	22.91	HS12.7
HS20 Operating	0.92	33.12	HS18.4
2F1	1.50	22.50	*100%*
3F1	1.14	26.22	
4F1	1.01	27.27	
5C1	1.14	45.60	
Fatigue	51 Years Remaining		

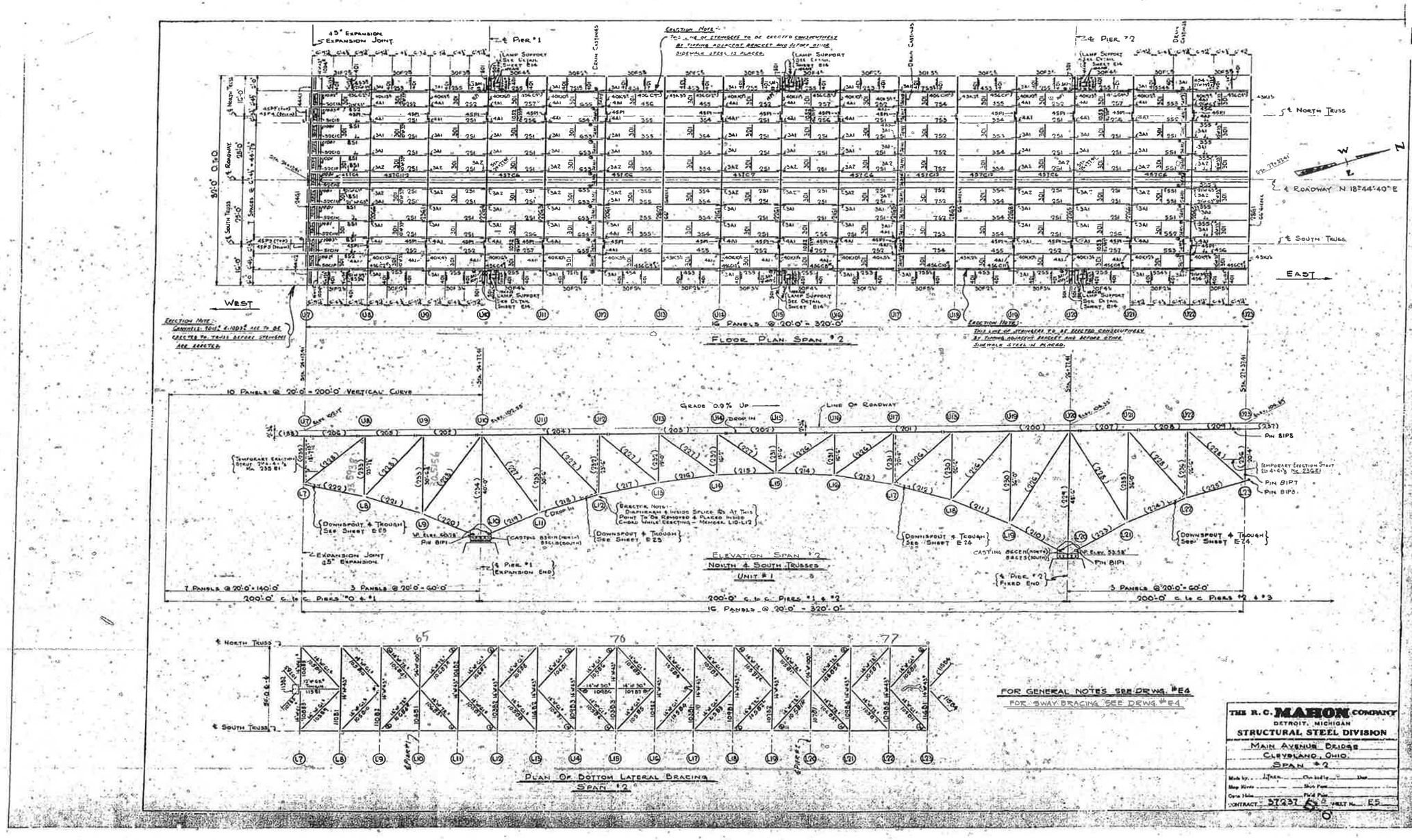
TRUSS LOAD RATING

ORIGINAL PLANS



102.55 - 66.98 = 35.57

33.3021 + 2.2708 = 35.5729



FLOOR PLAN SPAN #2
16 PANELS @ 20'-0" = 320'-0"
ELEVATION SPAN #2
NORTH & SOUTH TRUSSES
UNIT #1
PLAN OF BOTTOM LATERAL BRACING
SPAN #2
FOR GENERAL NOTES SEE DRWG. #E4
FOR SWAY BRACING SEE DRWG. #E4
THE R. C. MAHON COMPANY
DETROIT, MICHIGAN
STRUCTURAL STEEL DIVISION
MAIN AVENUE BRIDGE
CLEVELAND, OHIO
SPAN #2
CONTRACT 37237
SHEET No. E5

WEST

EAST

5 PANELS @ 20'-0" = 100'-0"

FLOOR PLAN SPAN #3

14 PANELS @ 20'-0" = 280'-0"

FLOOR PLAN SPAN #4

ELEVATION SPAN #3
NORTH & SOUTH TRUSSES
UNIT #2
5 PANELS @ 20'-0" = 100'-0"

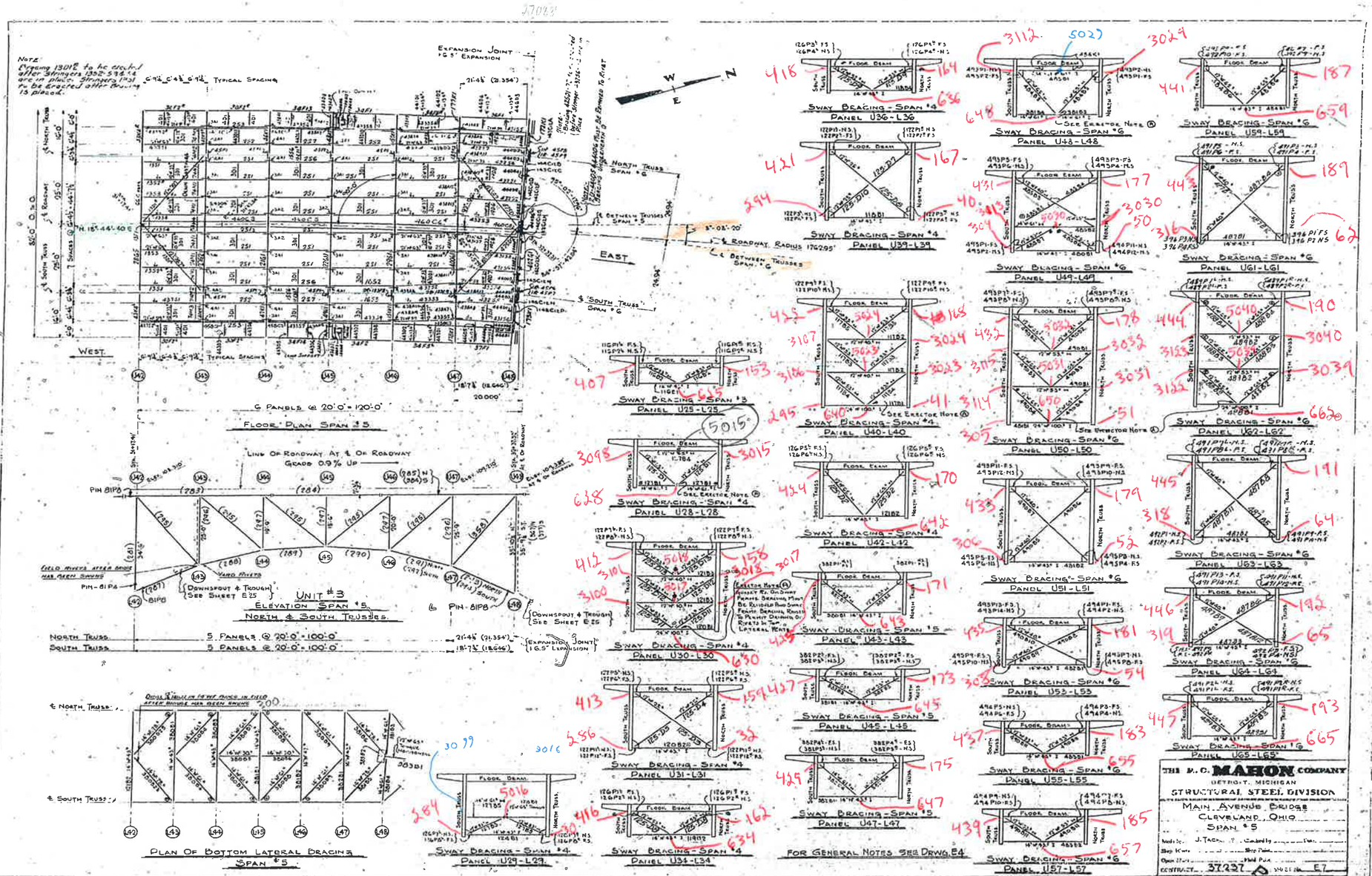
ELEVATION SPAN #4
NORTH & SOUTH TRUSSES
UNIT #2
200'-0" c. to c. PIERS #3 & #4
14 PANELS @ 20'-0" = 280'-0"

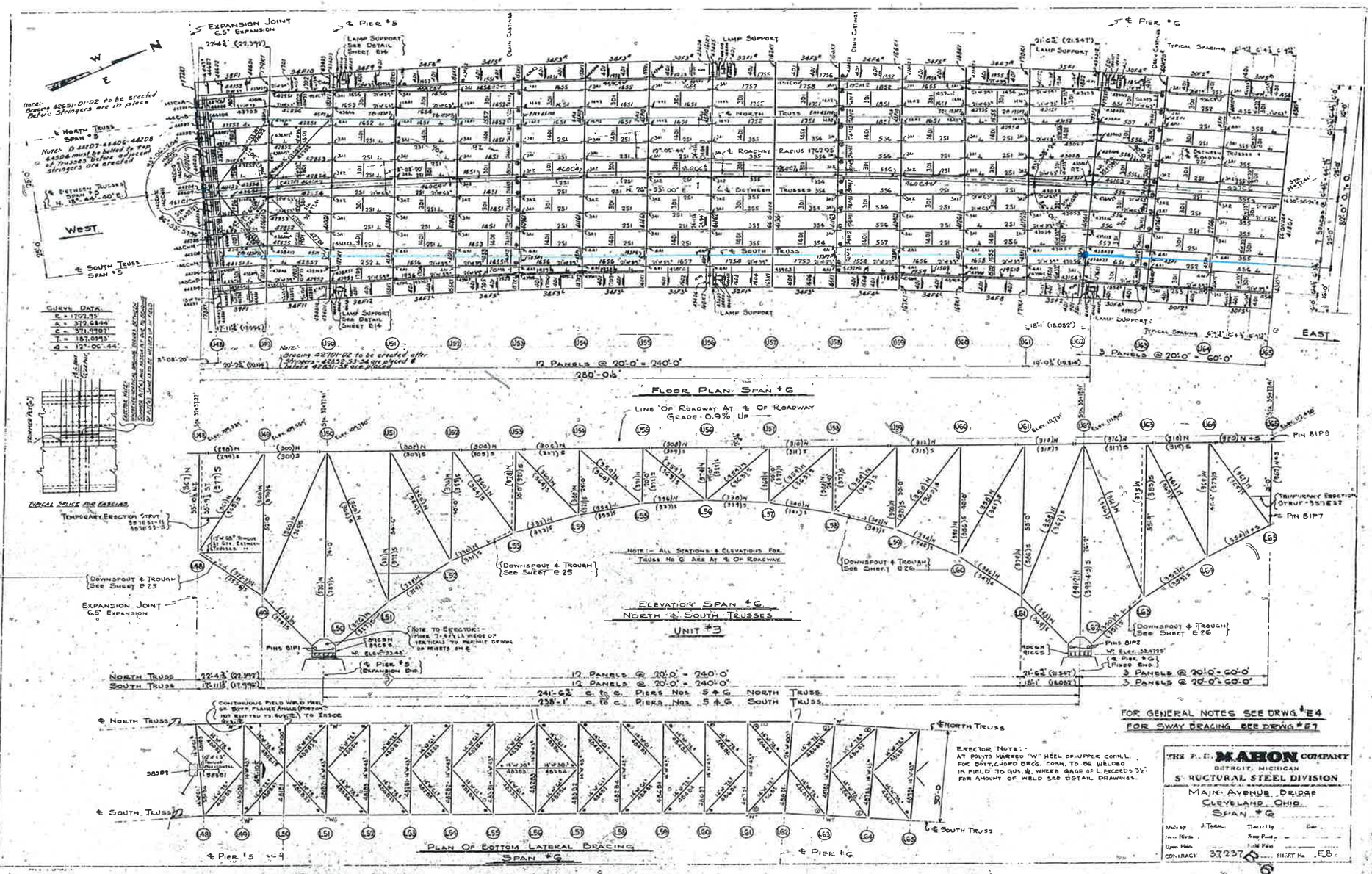
PLAN OF BOTTOM LATERAL BRACING
SPAN #3

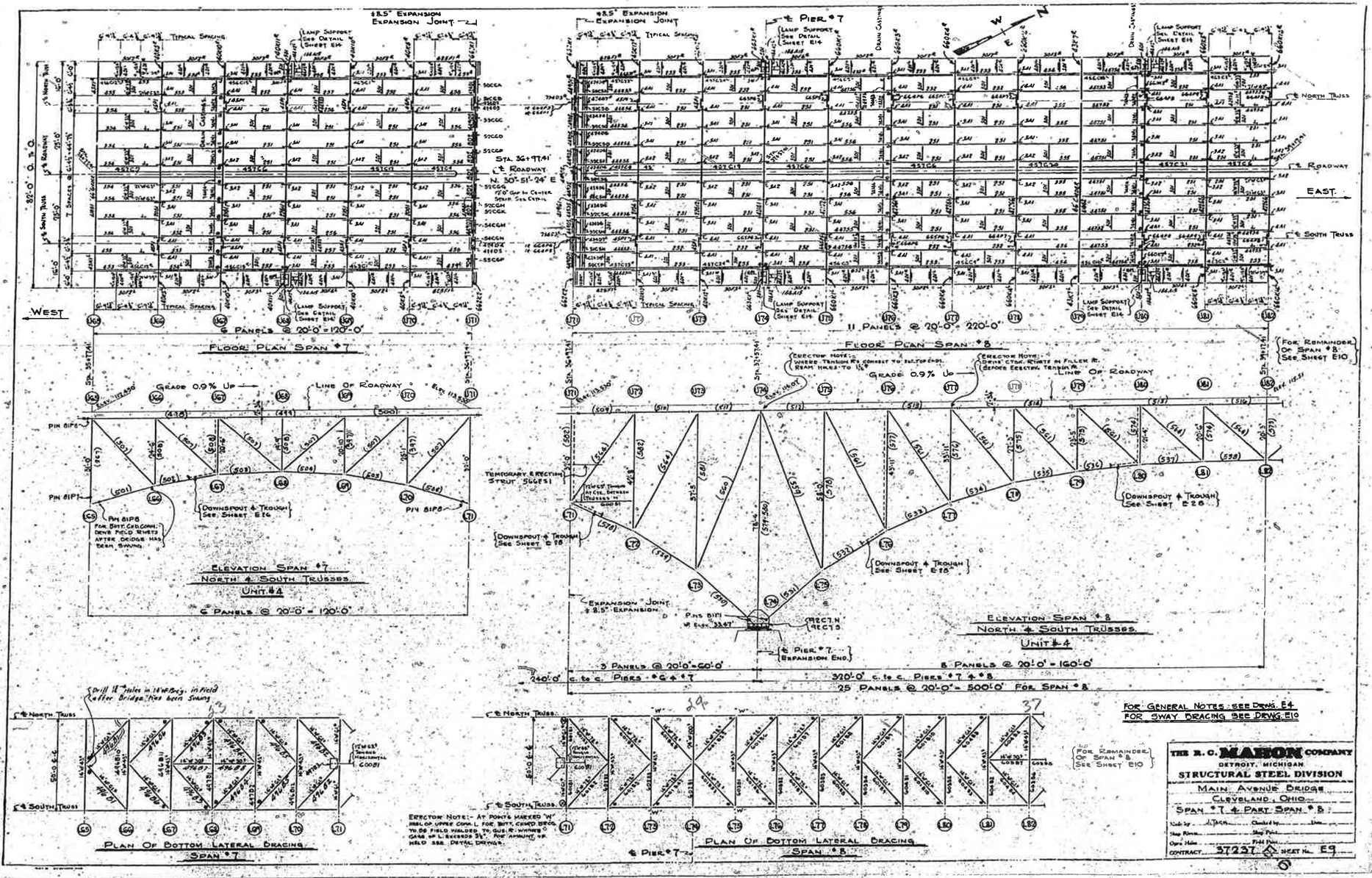
PLAN OF BOTTOM LATERAL BRACING
SPAN #4

FOR GENERAL NOTES SEE DRWG # E4
FOR SWAY BRACING SEE DRWG # E7

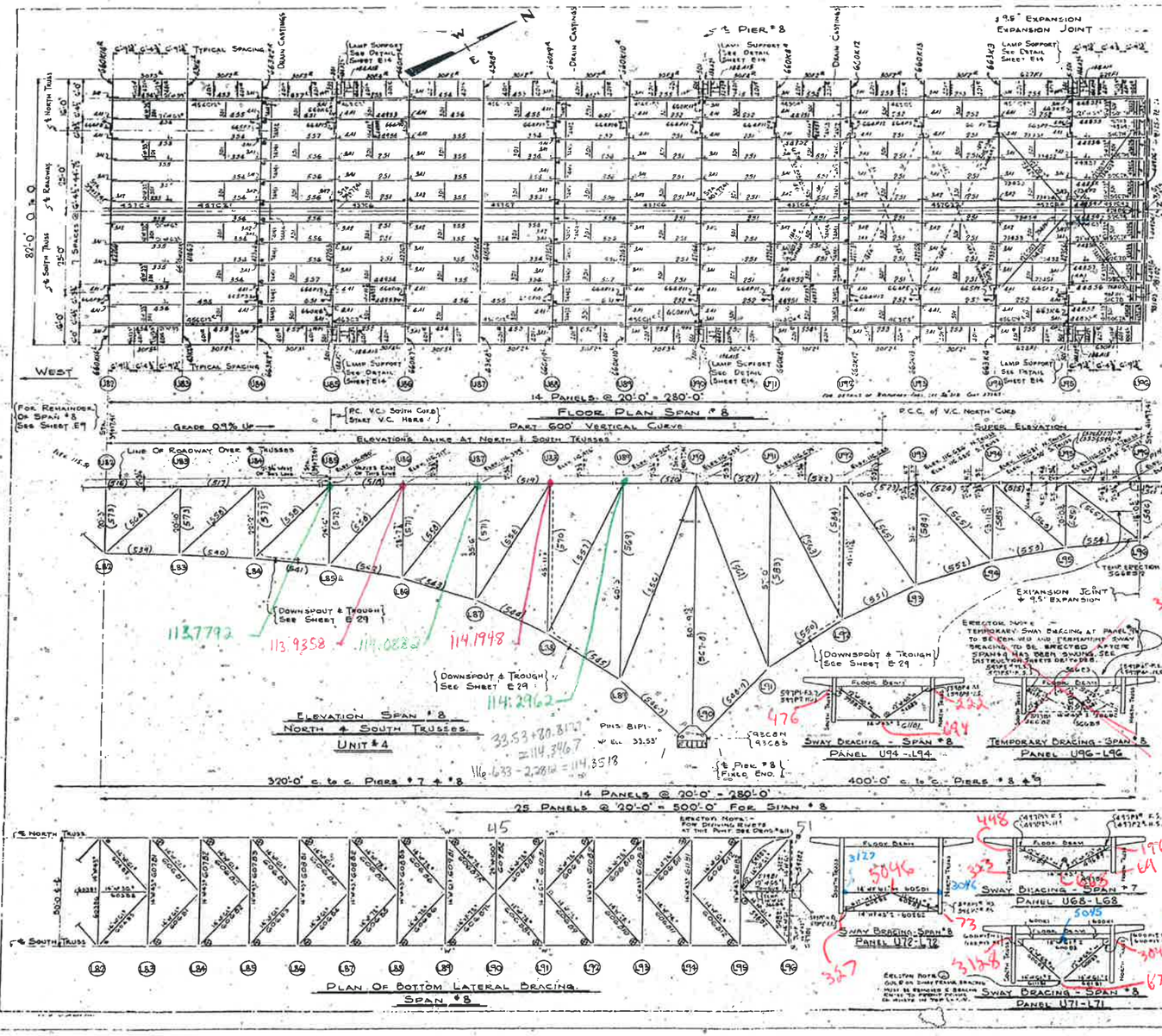
THE R. C. MAHON COMPANY
DETROIT, MICHIGAN
STRUCTURAL STEEL DIVISION
MAIN AVENUE BRIDGE
CLEVELAND, OHIO
SPAN #3 & SPAN #4
CONTRACT 37257 SHEET No. E6

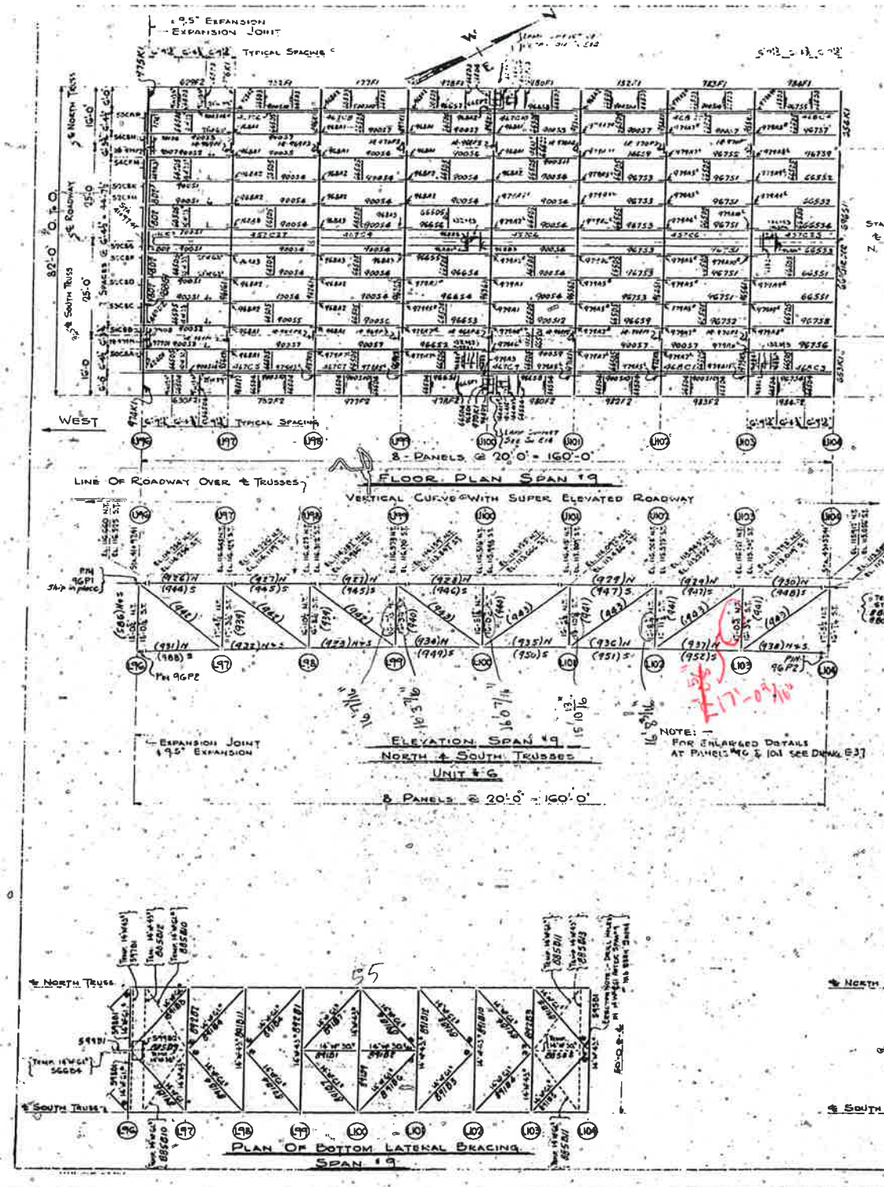

NOTE
Expand 13018 to be stock of after Stringers 1352-538-14 are in place. Stringers must to be Erected after Bracing is placed.
Expansion Joint 16 5" Expansion
C 9½" C 9½" C 9½" Typical Spacing
N. 18° 44' 40" E.
North Truss Span #5
℄ Between Trusses Span #5
℄ Roadway Radius 176295'
EAST
WEST
℄ South Truss Span #5
℄ Between Trusses Span #5
6 Panels @ 20'-0" = 120'-0"
Floor Plan Span #5
Line of Roadway at ℄ of Roadway
Grade 0.9% Up
Field Rivets after shop has been shunk
Hand Rivets
Pin-6 Pins
Downspout & Trough (See Sheet E25)
Unit #3
Elevation Span #5
North & South Trusses
North Truss 5 Panels @ 20'-0" = 100'-0"
South Truss 5 Panels @ 20'-0" = 100'-0"
21'-4⅝" (21.354")
18'-7⅝" (18.646")
Expansion Joint 10.5" Expansion
℄ North Truss
℄ South Truss
Plan of Bottom Lateral Bracing Span #5
Sway Bracing Span #4 Panel U36-L36
Sway Bracing - Span #4 Panel U39-L39
Sway Bracing - Span #3 Panel U25-L25
Sway Bracing - Span #4 Panel U40-L40
Sway Bracing - Span #4 Panel U28-L28
Sway Bracing - Span #4 Panel U42-L42
Sway Bracing - Span #4 Panel U30-L30
Sway Bracing - Span #5 Panel U43-L43
Sway Bracing - Span #4 Panel U31-L31
Sway Bracing - Span #5 Panel U45-L45
Sway Bracing - Span #4 Panel U29-L29
Sway Bracing - Span #4 Panel U34-L34
Sway Bracing - Span #5 Panel U47-L47
Sway Bracing - Span #6 Panel U48-L48
Sway Bracing - Span #6 Panel U59-L59
Sway Bracing - Span #6 Panel U49-L49
Sway Bracing - Span #6 Panel U61-L61
Sway Bracing - Span #6 Panel U50-L50
Sway Bracing - Span #6 Panel U62-L62
Sway Bracing - Span #6 Panel U51-L51
Sway Bracing - Span #6 Panel U63-L63
Sway Bracing - Span #6 Panel U53-L53
Sway Bracing - Span #6 Panel U64-L64
Sway Bracing - Span #6 Panel U55-L55
Sway Bracing - Span #6 Panel U65-L65
Sway Bracing - Span #6 Panel U57-L57
See Erector Note ⑥
See Erector Note ⑧
For General Notes See Drwg. E4
THE D. C. MAHON COMPANY
DETROIT, MICHIGAN
STRUCTURAL STEEL DIVISION
MAIN AVENUE BRIDGE
CLEVELAND, OHIO
SPAN #5
Contract 37237

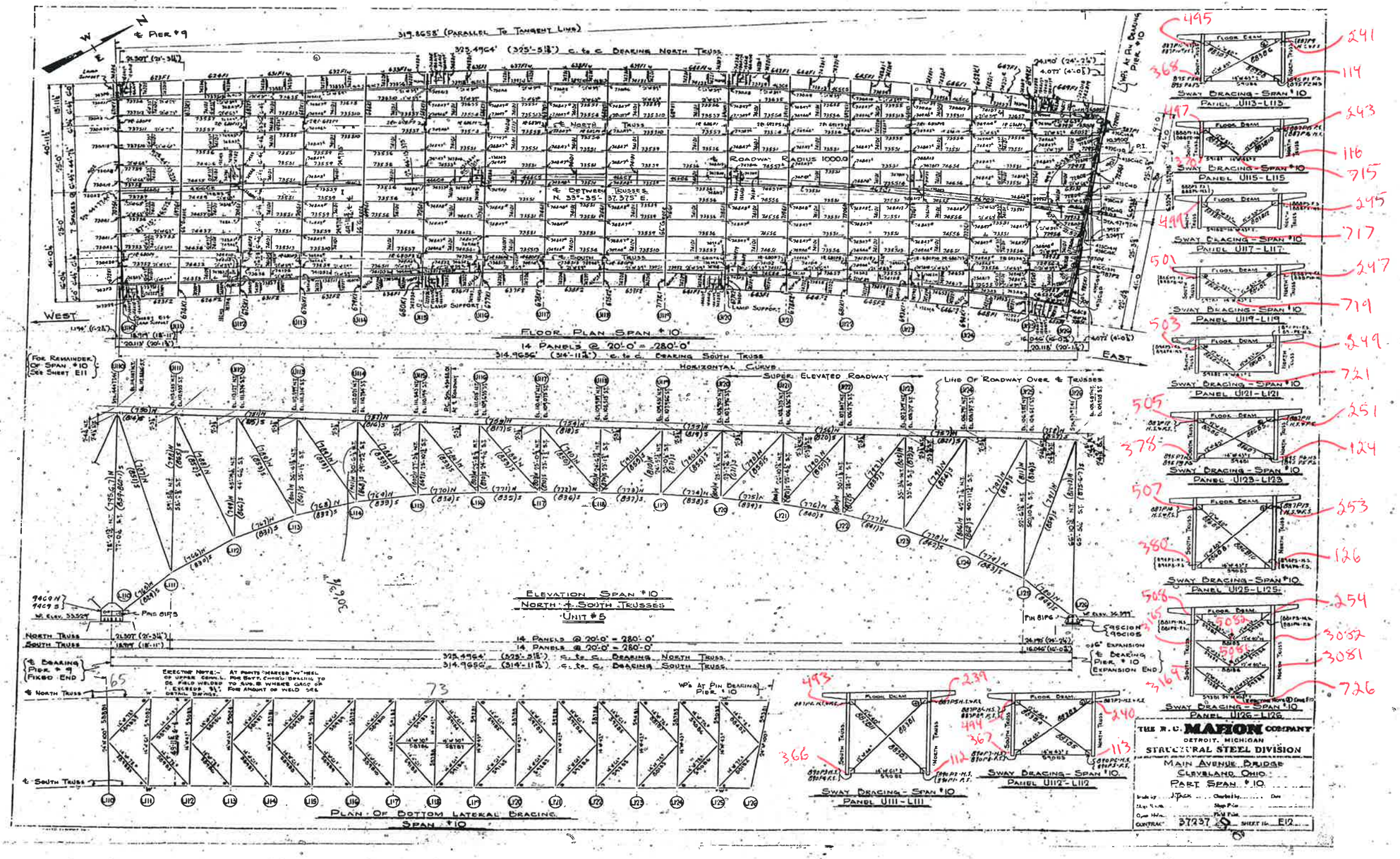

℄ EXPANSION JOINT
6.5" EXPANSION
℄ PIER #5
LAMP SUPPORT
SEE DETAIL SHEET E14
DRUM CASTINGS
℄ PIER #6
TYPICAL SPACING
21'-6½" (21.542')
LAMP SUPPORT
NOTE:
DRAWING 42631-01-02 TO BE ERECTED BEFORE STRINGERS ARE IN PLACE
℄ NORTH TRUSS SPAN #5
NOTE: D 44207-44406-44208
44206 MUST BE BOLTED TO TOP OF TRUSSES BEFORE ADJACENT STRINGERS ARE ERECTED
℄ BETWEEN TRUSSES
N. 44° 30' E.
WEST
EAST
℄ SOUTH TRUSS SPAN #5
CURVE DATA
R = 1799.35'
A = 372.6844'
C = 371.9907'
T = 187.0953'
D = 12°-06'-44"
NOTE:
DRAWING 42701-02 TO BE ERECTED AFTER STRINGERS 44630-33-34 ARE PLACED & DECK 42631-35 ARE PLACED
12 PANELS @ 20'-0" = 240'-0"
280'-0½"
3 PANELS @ 20'-0" = 60'-0"
FLOOR PLAN SPAN #6
LINE OF ROADWAY AT ℄ OF ROADWAY
GRADE 0.9% UP
RADIUS 1767.95
℄ ROADWAY
℄ BETWEEN TRUSSES
℄ NORTH TRUSS
℄ SOUTH TRUSS
PIN 81P8
PIN 81P7
TEMPORARY ERECTION STRUT
DOWNSPOUT & TROUGH
SEE SHEET E 25
EXPANSION JOINT
6.5" EXPANSION
NOTE:- ALL STATIONS & ELEVATIONS FOR TRUSS NO 6 ARE AT ℄ OF ROADWAY
ELEVATION SPAN #6
NORTH & SOUTH TRUSSES
UNIT #3
PINS 81P1
PINS 81P2
W. ELEV. 334.3348
W. ELEV. 334.1729
NOTE TO ERECTOR:-
MORE THAN ½" LL NEEDS OF VERTICALS TO PREMISE DRAWN OR INSERTS ON ℄
℄ PIER #5 (EXPANSION END)
℄ PIER #6 (FIXED END)
NORTH TRUSS 22'-4¾" (22.397')
SOUTH TRUSS 17'-11⅝" (17.996')
12 PANELS @ 20'-0" = 240'-0"
12 PANELS @ 20'-0" = 240'-0"
241'-6½" C. TO C. PIERS NOS. 5 & 6 NORTH TRUSS
238'-1" C. TO C. PIERS NOS. 5 & 6 SOUTH TRUSS
3 PANELS @ 20'-0" = 60'-0"
3 PANELS @ 20'-0" = 60'-0"
FOR GENERAL NOTES SEE DRWG #E4
FOR SWAY BRACING SEE DRWG #E7
℄ NORTH TRUSS
℄ SOUTH TRUSS
CONTINUOUS FIELD WELD HEEL OR BOTT. FLANGE ANGLE (FRICTION NOT REQUIRED TO BE SPLICED) TO INSIDE
ERECTOR NOTE:-
AT POINTS MARKED "W" HEEL OF UPPER CONN'L. FOR BOTT. CHORD DRGS. CONN'L TO BE WELDED IN FIELD TO GUS. ℄, WHERE GAGE OF L. EXCEEDS 3½". FOR AMOUNT OF WELD SEE DETAIL DRAWINGS.
PLAN OF BOTTOM LATERAL BRACING
SPAN #6
℄ PIER 5
℄ PIER 6
THE F. C. MAHON COMPANY
DETROIT, MICHIGAN
STRUCTURAL STEEL DIVISION
MAIN AVENUE BRIDGE
CLEVELAND, OHIO.
SPAN #6
Made by J. TOCH
Checked by
Date
Shop Mark
Field Mark
CONTRACT 37237
SHEET No. E8


ELEVATION SPAN #7
NORTH & SOUTH TRUSSES
UNIT #4
6 PANELS @ 20'-0" = 120'-0"
ELEVATION SPAN #8
NORTH & SOUTH TRUSSES
UNIT #4
3 PANELS @ 20'-0" = 60'-0"
8 PANELS @ 20'-0" = 160'-0"
240'-0" c. to c. PIERS #6 & #7
320'-0" c. to c. PIERS #7 & #8
25 PANELS @ 20'-0" = 500'-0" FOR SPAN #8
PLAN OF BOTTOM LATERAL BRACING SPAN #7
PLAN OF BOTTOM LATERAL BRACING SPAN #8
FOR GENERAL NOTES SEE DRWG. E4
FOR SWAY BRACING SEE DRWG. E10
THE R. C. MASON COMPANY
DETROIT, MICHIGAN
STRUCTURAL STEEL DIVISION
MAIN AVENUE BRIDGE
CLEVELAND, OHIO
SPAN #7 & PART SPAN #8
CONTRACT 37237
SHEET No. E9

roll 2. pdf
pgs 533-541




2.5" EXPANSION
EXPANSION JOINT
TYPICAL SPACING
NORTH TRUSS
SOUTH TRUSS
WEST
8 - PANELS @ 20'-0" = 160'-0"
FLOOR PLAN SPAN #9
VERTICAL CURVE WITH SUPER ELEVATED ROADWAY
LINE OF ROADWAY OVER C TRUSSES
ELEVATION SPAN #9
NORTH & SOUTH TRUSSES
UNIT #6
8 PANELS @ 20'-0" = 160'-0"
EXPANSION JOINT & 2.5" EXPANSION
NOTE: - FOR ENLARGED DETAILS AT PANELS #6 & 10 SEE DWG. E37
PLAN OF BOTTOM LATERAL BRACING SPAN #9
EAST
6 PANELS @ 20'-0" = 120'-0"
FLOOR PLAN SPAN #10
VERTICAL CURVE WITH SUPER ELEVATED ROADWAY
LINE OF ROADWAY OVER C TRUSSES
ELEVATION SPAN #10
NORTH & SOUTH TRUSSES
UNIT #5
6 PANELS @ 20'-0" = 120'-0"
400'-0" c to c PIERS #8 & #9
PIER #9 FIXED END
PLAN OF BOTTOM LATERAL BRACING SPAN #10
SWAY BRACING - SPAN #9
PANEL U99-L100
SWAY BRACING - SPAN #9
PANEL U101-L101
SWAY BRACING - SPAN #10
SEE TEMPORARY BRACING
PANEL U104-L104
SWAY BRACING - SPAN #10
PANEL U106-L106
SWAY BRACING - SPAN #10
PANEL U108-L108
(FOR REMAINDER OF SPAN #10 SEE SHEET E12)
SWAY BRACING - SPAN #10
PANEL U109-L109
SWAY BRACING - SPAN #10
PANEL U110-L110
TEMPORARY BRACING - SPAN #10
PANEL U104-L104
THE R. C. MAHON COMPANY
DETROIT, MICHIGAN
STRUCTURAL STEEL DIVISION
MAIN AVENUE BRIDGE
CLEVELAND, OHIO
SPAN #9 & PART SPAN #10
37257
E11


319.8658' (PARALLEL TO TANGENT LINES)
325.4964' (325'-5⅞") c. to c. BEARING NORTH TRUSS
℄ PIER #9
NORTH TRUSS
BUSSES @ N. 33°-35'-37.375" E.
ROADWAY RADIUS 1000.0
SOUTH TRUSS
WEST
EAST
FLOOR PLAN SPAN #10
14 PANELS @ 20'-0" = 280'-0"
314.9656' (314'-11⅝") c. to c. BEARING SOUTH TRUSS
HORIZONTAL CURVE
SUPER ELEVATED ROADWAY
LINE OF ROADWAY OVER ℄ TRUSSES
FOR REMAINDER OF SPAN #10 SEE SHEET E11
ELEVATION SPAN #10
NORTH & SOUTH TRUSSES
UNIT #5
PED BIPS
PIN BIPS
℄ BEARING PIER #9 FIXED END
℄ BEARING PIER #10 EXPANSION END
14 PANELS @ 20'-0" = 280'-0"
325.4964' (325'-5⅞") c. to c. BEARING NORTH TRUSS
314.9656' (314'-11⅝") c. to c. BEARING SOUTH TRUSS
WP's AT PIN BEARING PIER #10
℄ NORTH TRUSS
℄ SOUTH TRUSS
PLAN OF BOTTOM LATERAL BRACING
SPAN #10
SWAY BRACING - SPAN #10
PANEL U111-L111
PANEL U112-L112
PANEL U113-L113
PANEL U115-L115
PANEL U117-L117
PANEL U119-L119
PANEL U121-L121
PANEL U123-L123
PANEL U125-L125
THE H.C. MISON COMPANY
DETROIT, MICHIGAN
STRUCTURAL STEEL DIVISION
MAIN AVENUE BRIDGE
CLEVELAND, OHIO
PART SPAN #10
CONTRACT 27237
SHEET No. E12

DEAD LOAD CALCULATIONS

DECK DEAD LOADS

Main Ave - Main Truss

Deck / Barrier Dead Load Calcs

- Refer to sheet 213/547 of 1994 rehab plans (sheet 237/638 in 000003.pdf) attached
  - Class "S" lightweight concrete AB $\gamma = 113$ pcf (gen notes sheet 9/547 which is 9/638 in pdf)
  - Latex modified concrete wearing surface assume $\gamma = 150$ pcf
  - SIP forms used G9A/547 (10/638)
    ↑ plan # Typ. ↑ pdf # Typ.

Slab

$6\frac{3}{4}" \times (85'6" - 2\times 2" \text{ reveal}) \times .113 \text{ kcf} = 5.41 \text{ k/ft}$

Haunches: $(6" + b_f) \times 1\frac{3}{4}" \times 12 \text{ stringers} \times .113 \text{ kcf} = 0.27 \text{ k/ft}$

↑ 10.2" typ. W16x67

Fascia haunches: $(2'0\frac{3}{8}" - 2" + 3" + 24") \times 1\frac{3}{4}" \times 2 \times .113 \text{ kcf} = 0.14 \text{ k/ft}$

} Not deducting embedded flanges this will account for extra weight from haunches taller than 1 3/4"

$\therefore$ Deck = **5.82 k/ft**

Barriers

Median Barrier

$A = (3" \times 2'3") + \left(\frac{1'1" + 2'3"}{2}\right)(10") + \left(\frac{9" + 1'1"}{2}\right)(2'5") = 4.17 \text{ SF}$

Weight = $4.17 \text{ ft}^2 \times .113 \text{ kcf} = 0.47 \text{ k/ft}$

Fascia Barriers

$A = (3" \times 1'9") + \left(\frac{1'2" + 1'9"}{2}\right)(11\frac{3}{4}") + \left(\frac{9" + 12"}{2}\right)(2'5") = 3.98 \text{ SF}$

Weight = $2 \times 3.98 \text{ SF} \times .113 \text{ kcf} = 0.90$ k/ft

$\therefore$ Barriers = **1.37 k/ft**

Wearing Surface

$1\frac{1}{4}" (85'2") \times .150 \text{ kcf} = 1.33 \text{ k/ft}$

SIP Forms

$\left[2\left(5'8\frac{5}{8}" + 4\times 6'4\frac{1}{2}" + 6'3\frac{3}{4}" + 3'2\frac{1}{4}"\right) - 13 \times 10"\right] \times .002 \text{ ksf} = 0.14 \text{ k/ft}$

↓ ft width; ↓ per Gen notes

$(5.82 + 1.37 + 1.33 + 0.14) \times 1.05 = 9.09 \text{ k/ft}$

↓ for lights, pilasters and misc. inclusions

$\Rightarrow$ Total Deck Load = 9.1 k/ft longitudinally for entire deck width

$DL/\text{Beam} = \frac{9.1 \text{ k/ft}}{14} \approx 0.65 \text{ k/ft}$

Calculations for 1/8 US Grid

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JUL 26 1994

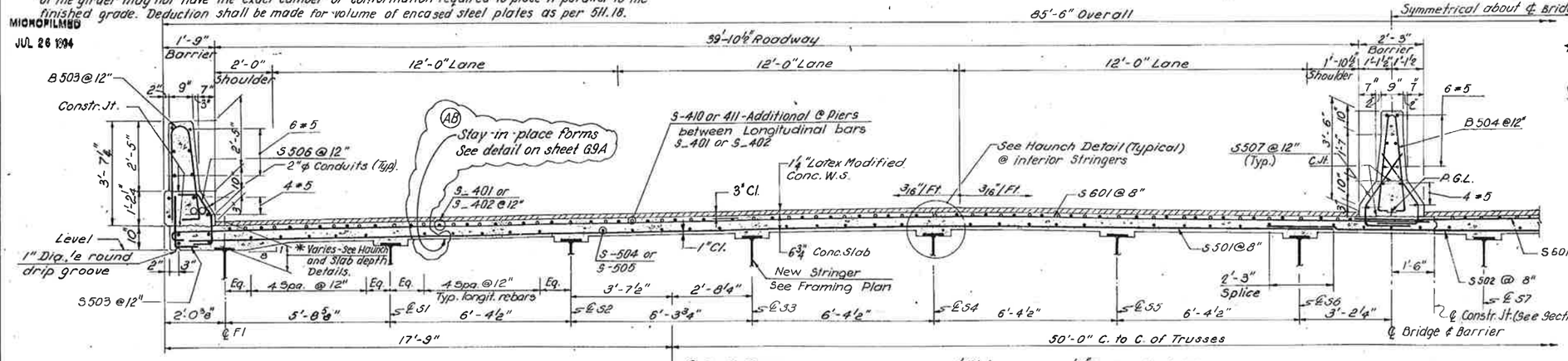
* This is the design dimension. The quantity of deck concrete to be paid for shall be based upon this dimension less 1½" W.S. even though deviation from it may be necessary because the top flange of the girder may not have the exact camber or conformation required to place it parallel to the finished grade. Deduction shall be made for volume of encased steel plates as per 511.18.

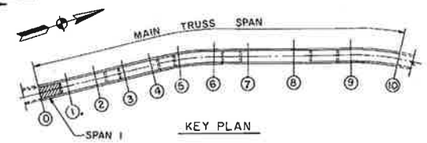
Note: See Dwg. 262 for "Forms for Deck Overhang" note

CUYAHOGA COUNTY
CUY - 2 - 14.66

FHWA REGION	STATE	PROJECT	
5	OHIO	BHF - 73 (51)	

274
547





NOTES

1. All Deck concrete shall be "Lightweight class S"
2. Deck pouring sequences and directions are indicated in Dwg. N° 275 "Deck Slab Details I."
3. Preformed deflection joint Filler in barriers shall be either ¼" thick gray sponge rubber (AASHTO M-153) or ½" gray cellular polyvinyl chloride (PVC) sponge. Concrete parapets above upper construction joints shall be placed in alternate sections by the use of bulkheads. Closing sections shall be placed after removal of bulkheads and after placement of expansion joint filler.
4. Embedded Lighting conduits (size & layout), junction boxes, grounding etc. are detailed in the Dwg's. N° G64 to G69 "Proposed Bridge Lighting"
5. For details of Deck supporting Traffic Signs, see Dwgs. N° 275 & 277.
6. The contractor shall bend or field cut reinforcing steel as required at scuppers.

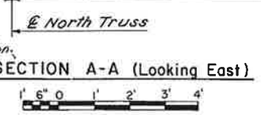
REFERENCES

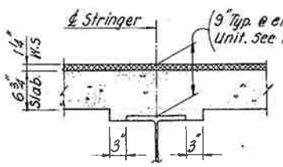
	DWG. NO.
General Notes	GG 1 to G23
General Plan & Elevation (Existing and Proposed)	201 to 206
Typical Cross Section.	207
Top of Deck Elevations and Deflections	262 to 267
End of slab sections E1-E1 & E3-E3	276
Scupper Details.	G54 & G55
Lighting Post-Pilaster Details & Barrier Cavities for Conduit	G68
Expansion Joints	278 to 282
Sign Support details	275
Bar List	283
Haunch and Slab Depth details	262
Stay-in-place forms	G9A

MINIMUM BAR LAP LENGTH	
BAR SIZE	MIN. LAP
# 4	1'-10"
# 5	2'-3"
# 6	2'-8"

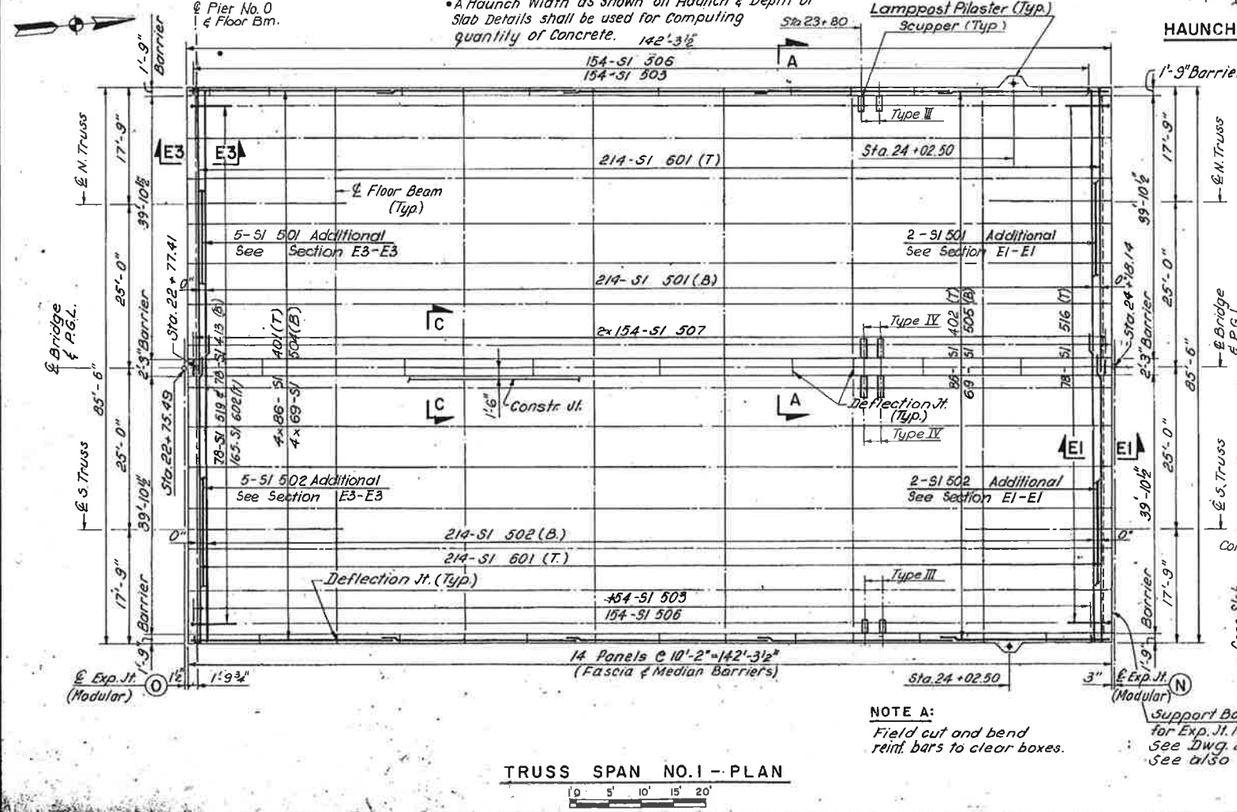
- Deck Slab Depth: The distance shown from top of deck slab to top of steel beam is the design dimension. The quantity of deck concrete to be paid for shall be based on this dimension, less 1¼" W.S. even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.
- A Haunch Width as shown on Haunch & Depth of Slab Details shall be used for computing quantity of Concrete.

SECTION A-A (Looking East)



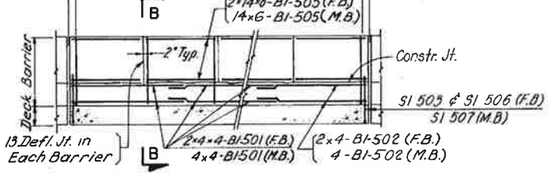


HAUNCH DETAIL

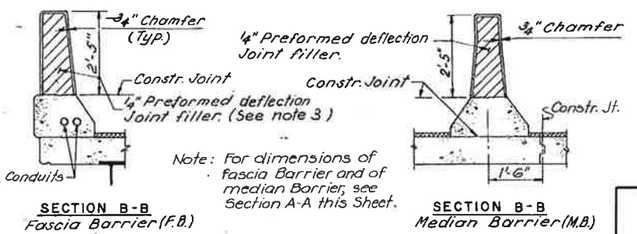


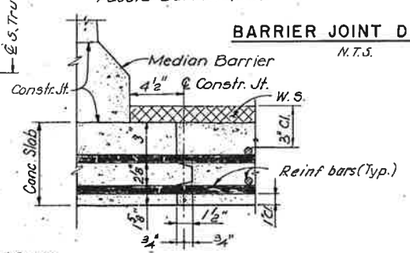
TRUSS SPAN NO. I - PLAN

NOTE A:
Field cut and bend reinf. bars to clear boxes.



BARRIER DETAILS SPAN NO. I
N.T.S.





BARRIER JOINT DETAILS
N.T.S.

AB As Built

PAVLO ENGINEERING CO., P.C.
NEW YORK, NEW YORK

CUYAHOGA COUNTY ENGINEER
CLEVELAND OHIO

MAIN AVENUE BRIDGE

CITY OF CLEVELAND
BRIDGE OVER THE CUYAHOGA RIVER VALLEY

MAIN TRUSS SPAN - I

DECK SLAB REINFORCEMENT

BRIDGE NO. 193 REPORT NO. 7119 DATE Oct. 05, 1989

NO. B-136

268/89

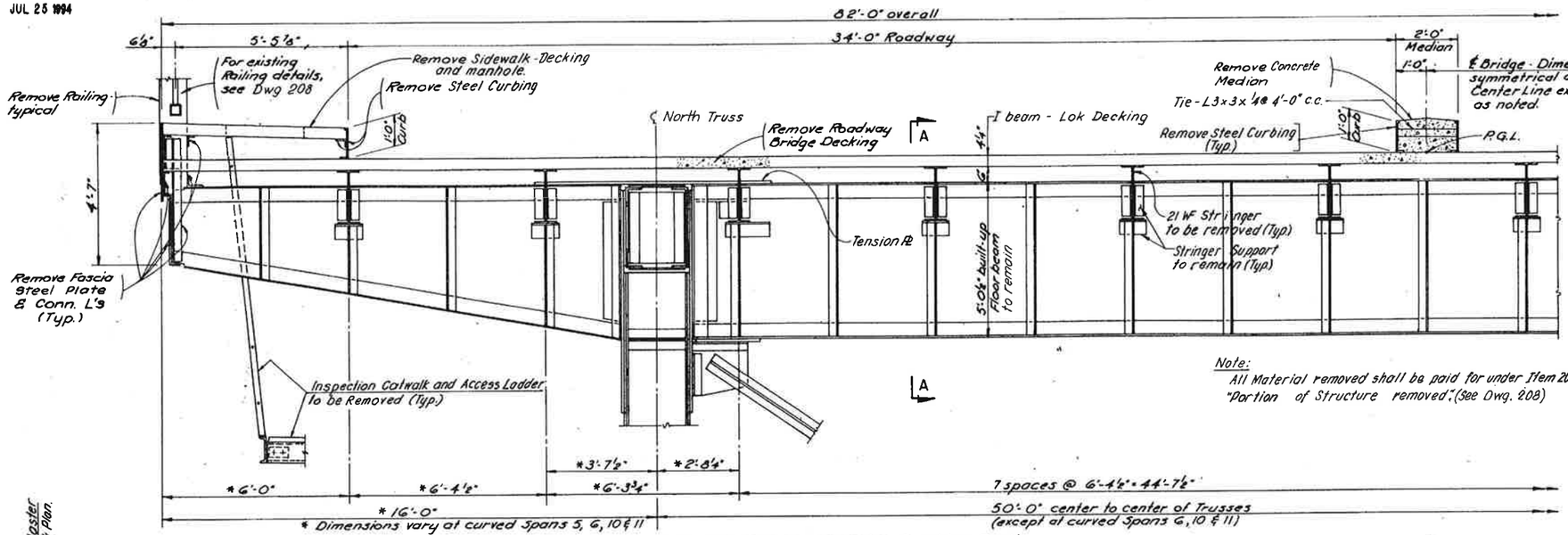
DESIGN	DRAWN	CHECKED	REVISED TO AS BUILT
A.S. / B.P.	T.C.	E.G.	AS BUILT 2/94

MICROFILMED
JUL 25 1994

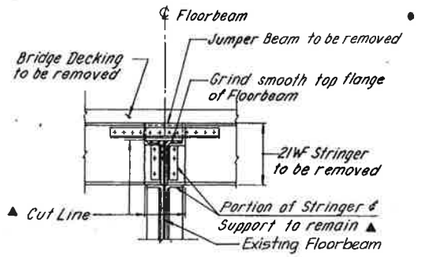
CUYAHOGA COUNTY
CUY - 2 - 14.66

FHWA REGION	STATE	PROJECT	
5	OHIO	BHF-73(51)	

213 / 547

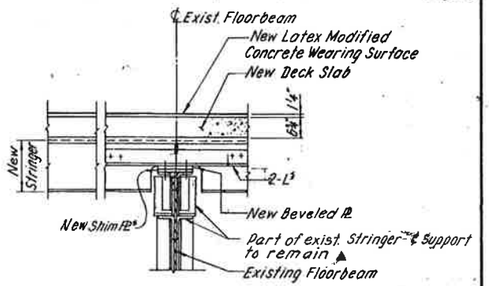


EXISTING CROSS SECTION *(Looking East)*

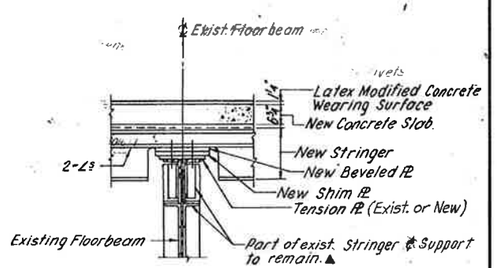


SECTION A-A
EXISTING CONDITION

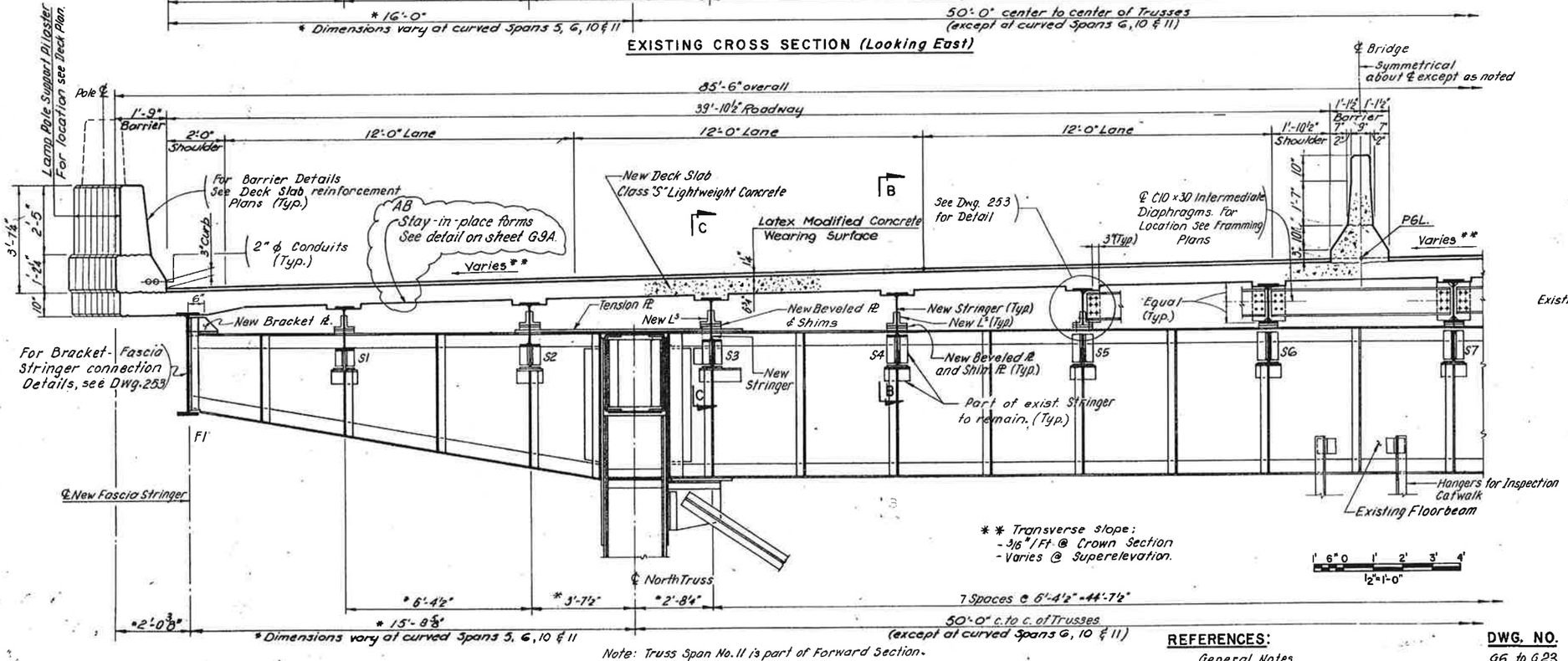
▲ Unless noted otherwise (Expansion Joint Stringers)



SECTION B-B



SECTION C-C
Stringers S2, S3, S5 & S11 (AB) As Built



Note: Truss Span No. 11 is part of Forward Section.

PROPOSED CROSS SECTION *(Looking East)*

REFERENCES:

	DWG. NO.
General Notes	G6 to G23
Existing and Proposed Plan & Elevation	201 to 206
Framing Plans	210 to 216
Stringer Details	231 & 251 to 253
Stringer Schedules	232 to 248

PAVLO ENGINEERING CO., P.C.
NEW YORK, NEW YORK

CUYAHOGA COUNTY ENGINEER
CLEVELAND OHIO

MAIN AVENUE BRIDGE

CITY OF CLEVELAND
BRIDGE OVER THE CUYAHOGA RIVER VALLEY

MAIN TRUSS SPAN
TYPICAL CROSS SECTION

BRIDGE NO. 193 REPORT NO. 7119 DATE Oct. 25, 1985

NO. B-136

207 / 89

DESIGN	DRAWN	CHECKED	REVISED TO AS BUILT
D.G.	A.D.	A. S.	AS BUILT 2/94

207

UNCONTROLLED
JUL 20 1994

MAIN.S.D.SHEET

GENERAL.NOTES.3

3. WELDED CONNECTIONS SHALL BE DISASSEMBLED IN ACCORDANCE WITH THE FOLLOWING:

a. ALL PAINT COVERING THE AFFECTED WELD SHALL BE REMOVED.

b. THE AFFECTED WELD SHALL BE REMOVED BY MEANS OF AIR CARBON ARC GOUGING EQUIPMENT. TO ENSURE THAT BASE METAL REMAINING IN PLACE IS NOT DAMAGED, AT LEAST 1/8 INCH OF WELD MATERIAL SHALL BE LEFT IN PLACE.

c. THE WELD MATERIAL LEFT IN PLACE SHALL BE GROUND FLUSH WITH THE BASE METAL SURFACE IN THE DIRECTION OF STRESS. NO BASE METAL SHALL BE REMOVED BY GRINDING.

d. THE CONTRACTOR ACCOMPANIED BY THE ENGINEER SHALL PERFORM A CAREFUL VISUAL INSPECTION OF ALL WELD REMOVAL LOCATIONS. IF THE ENGINEER SUSPECTS DAMAGE, HE WILL DIRECT THE CONTRACTOR TO PERFORM NONDESTRUCTIVE TESTING FOR CRACKS WITH DYE PENETRANT, MAGNETIC PARTICLE OR ULTRASONIC TESTS. PAYMENT FOR THIS WORK SHALL BE INCLUDED WITH ITEM 202 "PORTIONS OF STRUCTURES REMOVED, AS PER PLAN."

D. DISPOSAL OF REMOVED MATERIAL

ALL CONCRETE, STEEL, REINFORCING STEEL, ETC., REMOVED FROM THE STRUCTURE, UNLESS OTHERWISE SPECIFIED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED BY HIM FROM THE SITE. THE EXISTING BRONZE PLATES ON THE PYLONS SHALL BECOME THE PROPERTY OF THE COUNTY, AND SHALL BE STORED BY THE CONTRACTOR, PENDING REMOVAL BY THE CUYAHOGA COUNTY ARCHIVIST.

E. PROTECTIVE STRUCTURES

PROTECTIVE STRUCTURES FOR CATCHING FALLING DEBRIS AND WATER FROM THE DEMOLITION OPERATIONS SHALL BE IN ACCORDANCE WITH THE GENERAL NOTE, "FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES."

APPROXIMATE ESTIMATED QUANTITIES FOR EACH SECTION OF BRIDGE ARE SHOWN ON THE PLANS FOR REFERENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING ACTUAL REMOVAL QUANTITIES FOR BID USE. NO ADDITIONAL COMPENSATION SHALL BE MADE IF THE REMOVAL QUANTITIES DIFFER FROM THE QUANTITIES LISTED ON THE PLANS.

F. BASIS OF PAYMENT

PORTIONS OF STRUCTURES REMOVED, AS PER PLAN, WILL BE MEASURED AS A UNIT AND SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE BID. THIS PRICE SHALL BE PAYMENT IN FULL FOR ALL MATERIAL, EQUIPMENT, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.

20. ITEM 510-DOWEL HOLES, AS PER PLAN

DRILLING OF HOLES INTO CONCRETE AND THE FURNISHING AND PLACING GROUT INTO THE HOLES SHALL BE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 853 AND SUPPLEMENTAL SPECIFICATION 956 EXCEPT FOR THE BASIS OF PAYMENT. DRILLING DOWEL HOLES AND FURNISHING AND PLACING NONSHRINKING EPOXY MORTAR, WILL BE MEASURED AS A UNIT INCLUDING ALL MATERIAL, EQUIPMENT, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. THIS ITEM SHALL BE PAID AT THE CONTRACT UNIT BID PRICE COMPLETE FOR:

ITEM	UNIT	DESCRIPTION
510	EACH	DOWEL HOLES, AS PER PLAN

21. FINISHING MACHINE SUPPORTS

WELDED ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE MAY BE MADE TO AREAS OF THE STRINGER FLANGES DESIGNATED "COMPRESSION." ATTACHMENTS SHALL NOT BE MADE TO AREAS DESIGNATED "TENSION." FILLET WELDS TO COMPRESSION FLANGES SHALL NOT BE CLOSER THAN 1" FROM EDGE OF FLANGE, NOT BE MORE THAN 2" LONG, AND NOT BE SMALLER THAN THE MINIMUM SIZE REQUIRED BY AASHTO.

22. ITEM SPECIAL - CLASS S LIGHTWEIGHT CONCRETE, SUPERSTRUCTURE (USING SHRINKAGE COMPENSATING CEMENT)

A. DESCRIPTION

THIS ITEM SHALL CONSIST OF FURNISHING AND PLACING PORTLAND CEMENT LIGHTWEIGHT CONCRETE USING SHRINKAGE COMPENSATING CEMENT FOR THE BRIDGE SUPERSTRUCTURE IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF ITEM 511 OF THE STANDARD SPECIFICATIONS, EXCEPT AS MODIFIED HEREIN, AND IN REASONABLY CLOSE CONFORMITY WITH LINES, GRADES AND DIMENSIONS SHOWN ON THE PLANS.

B. MATERIALS

MATERIALS SHALL BE:

PORTLAND CEMENT - THE CEMENT SHALL BE SHRINKAGE COMPENSATING CEMENT CONFORMING TO ASTM C845, TYPE K.

FINE AGGREGATE - NATURAL SAND IN ACCORDANCE WITH 703.02.

COARSE AGGREGATE - LIGHTWEIGHT COARSE AGGREGATE SHALL CONSIST ONLY OF PROCESSED AGGREGATES PREPARED FROM NATURAL DEPOSITS OF SHALES OR CLAYS, PRODUCED BY A ROTARY KILN OPERATION, AND MEETING THE REQUIREMENTS OF ASTM C330. THE COARSE AGGREGATE SIZE DESIGNATION SHALL RANGE FROM 3/4 INCH TO NO. 4 ONLY. FURNACE SLAGS OR FLY ASHES WILL NOT BE ACCEPTABLE. THE LIGHTWEIGHT AGGREGATE PILE SHALL BE KEPT IN A STABLE, UNIFORM, DAMP CONDITION. SATURATED AGGREGATES SHALL NOT BE USED WHEN THE CONCRETE IS SUBJECT TO FREEZING AND THAWING DURING THE CURING CYCLE, DUE TO DAMAGE WHICH COULD RESULT FROM SUCH AN EXPOSURE.

WATER - WATER WHICH IS POTABLE IS SATISFACTORY

AIR ENTRAINING MIXTURE - 705.10 AS APPROVED BY THE ENGINEER.

CHEMICAL ADMIXTURE - WHEN REQUIRED BY 511.06, SHALL BE LIMITED TO 705.12, TYPE D.

C. PROPORTIONING

THE CONTRACTOR (ADVISED BY THE LIGHTWEIGHT AGGREGATE SUPPLIER) SHALL BE RESPONSIBLE FOR DESIGNING THE MIXTURE AND DETERMINING THE PROPORTIONS OF CEMENT, FINE AGGREGATE, COARSE AGGREGATE, WATER, AIR-ENTRAINMENT AND CHEMICAL ADMIXTURE IN ACCORDANCE WITH ACI 211.2 WHICH WILL PRODUCE A WORKABLE LIGHTWEIGHT CONCRETE MIX MEETING THE FOLLOWING REQUIREMENTS.

28 DAY AIR DRY UNIT WEIGHT - WITH A DESIGN AVERAGE UNIT WEIGHT OF 112 POUNDS PER CUBIC FOOT AND A PERMISSIBLE RANGE VARYING FROM 110 POUNDS PER CUBIC FOOT TO 114 POUNDS PER CUBIC FOOT; AN ADDITIONAL 3 POUNDS PER CUBIC FOOT SHALL BE PERMITTED FOR CONCRETE WHICH IS PUMPED.

(AB) Actual weight of concrete, 112-113#/ft³

28 DAY COMPRESSIVE STRENGTH - 4,500 PSI (MINIMUM).

CEMENT CONTENT - 715 POUNDS PER CUBIC YARD (MINIMUM).

SLUMP - 5 INCHES PLUS OR MINUS 1 INCH.

AIR CONTENT - 7 PERCENT PLUS OR MINUS 2 PERCENT.

WATER-CEMENT RATIO - 0.50 TO 0.55 MAXIMUM, USING DAMP LIGHTWEIGHT AGGREGATES, 0.81 TO 0.86 MAXIMUM, TOTAL WATER INCLUDING THE ABSORBED WATER.

GENERAL NOTES

THE CONTRACTOR SHALL DETERMINE THE 28-DAY DRY UNIT WEIGHT OF THE LIGHTWEIGHT CONCRETE MIX PRIOR TO INITIAL CONCRETE PLACEMENT FOR BOTH PUMPED & CONVENTIONALLY PLACED CONCRETE. FOR EACH CASE A TEST SPECIMEN SHALL BE PREPARED & THE 28-DAY AIR DRY UNIT WEIGHT DETERMINED IN ACCORDANCE WITH ASTM C567.

ALL LIGHTWEIGHT CONCRETE SHALL HAVE GOOD WORKABILITY AND OTHER PROPERTIES SUCH THAT PROPER PLACEMENT, CONSOLIDATION AND FINISHING IS OBTAINED.

THE LIGHTWEIGHT CONCRETE MIX DESIGN SUBMITTED BY THE CONTRACTOR SHALL BE TESTED BY A RECOGNIZED TESTING LABORATORY WHICH IS REGULARLY INSPECTED BY THE CEMENT & CONCRETE REFERENCE LABORATORY (CCRL) & APPROVED BY THE ENGINEER. THE MIX DESIGN SHALL BE TESTED USING THE DRAMP LOOSE VOLUMETRIC METHOD AS OUTLINED IN ACI 213R-79 SECTION 3.4.2. THE TESTING LABORATORY SHALL CERTIFY THAT THE LIGHTWEIGHT CONCRETE MEETS THE REQUIREMENTS SPECIFIED ABOVE AND SHALL SUBMIT COPIES OF THE CERTIFIED DESIGH MIX PROPORTIONS ALONG WITH ALL THE TEST RESULTS TO THE ENGINEER FOR APPROVAL, PRIOR TO LIGHTWEIGHT CONCRETE PLACEMENT.

D. CONCRETE DELIVERY

WHEN SUPPLYING CONCRETE USING TYPE K SHRINKAGE-COMPENSATING CEMENT, READY-MIX PLANTS IDENTIFIED AS "TRUCK MIX" SHALL PROPORTION THE CONCRETE SUCH THAT THE VOLUME PLACED INTO THE TRUCK IS AT LEAST 2 CUBIC YARDS LESS THAN THE RATED MAXIMUM CAPACITY OF THE MIX TRUCK. THE COST FOR COMPLYING WITH THIS REQUIREMENT SHALL BE INCLUDED IN THE APPROPRIATE CONCRETE BID ITEM.

—FOR NOTES E & F SEE SHEET G9A.—

G. PLACING CONCRETE

MAXIMUM AMBIENT TEMPERATURE AT THE TIME OF PLACEMENT OF CONCRETE SHALL BE 80 DEGREES F. CONCRETE PUMPING WILL NOT BE PERMITTED BETWEEN OCTOBER 15 AND MARCH 30.

H. HANDLING OF AGGREGATES

THE HANDLING OF THE LIGHTWEIGHT AGGREGATES SHALL BE ARRANGED TO PROVIDE A THOROUGH SPRINKLING OF THE AGGREGATES DURING THE STOCKPILING TO PRODUCE DAMP AGGREGATE. SPRINKLING SHALL BE DONE IN SUCH A WAY AS TO OBTAIN UNIFORM DISTRIBUTION OF MOISTURE. AGGREGATES SHALL THEN BE ALLOWED TO DRAIN AS LONG AS NECESSARY TO PRODUCE A UNIFORM MOISTURE CONTENT, AND SUCH MOISTURE CONTENT SHALL BE MAINTAINED IN-SOFAR AS PRACTICAL UNTIL THE AGGREGATE IS USED. THE TYPE D ADMIXTURE SHALL BE ADDED TO THE MIX IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

THE SAME SOURCE OF AGGREGATE AND DESIGN MIX, ONCE ESTABLISHED AND CHECKED, SHALL BE USED THROGHOUT THE WHOLE JOB. VARIATIONS THAT EXIST IN BATCHING ARRANGEMENTS, READY MIX PLANT LAYOUTS, WEATHER AND AGGREGATE PROPERTIES MAY REQUIRE DAILY MINOR FIELD ADJUSTMENTS TO THE BATCH WEIGHTS OF THE AGGREGATE. THE CONTRACTOR SHALL PROVIDE, AT NO COST TO THE STATE, A QUALIFIED TECHNICAL REPRESENTATIVE TRAINED BY THE LIGHTWEIGHT AGGREGATE SUPPLIER, EXPERIENCED IN THE DESIGN AND BATCHING OF LIGHTWEIGHT CONCRETE, AT THE BATCH PLANT DURING THE PRODUCTION PERIOD OF THE LIGHTWEIGHT CONCRETE TO INSURE CONSISTENT QUALITY CONTROL.

THIS TECHNICAL REPRESENTATIVE WILL DETERMINE THE MINIMUM DOSAGE RATE OF CHEMICAL (WATER REDUCING) ADMIXTURE TO BE USED IN THE FIELD BASED ON FIELD CONDITIONS ON THE DAY USED.

LIGHTWEIGHT CONCRETE SHALL BE PLACED, TESTED, FINISHED, CURED AND PROTECTED AS SPECIFIED IN ITEM 511 EXCEPT AS NOTED HERRIN. CARE SHALL BE TAKEN TO PROVIDE UNIFORM CONSOLIDATION WITHOUT OVER-VIBRATION.

LIGHTWEIGHT CONCRETE DECK SLABS SHALL BE FINISHED IN ACCORDANCE WITH THE REQUIREMENTS OF 451.09 AND 451.12 EXCEPT THAT CONSTRUCTION JOINTS SHALL NOT BE EDGED.

I. CURING

IMMEDIATELY AFTER THE DECK SLAB HAS BEEN SCREEDED, AN APPROVED MONOMOLECULAR FILM OR A FOG SPRAY OF WATER SHALL BE APPLIED TO THE CONCRETE SURFACE.

MONOMOLECULAR FILM

THE FILM MATERIAL SHALL BE MASTER BUILDERS-CONFILM, EUCLID CHEMICAL CO. - EUCOBAR, CHEM MASTERS - MONOLUX OR APPROVED EQUAL, AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. IF THE FILM IS BROKEN OR THE FILM EVAPORATES PRIOR TO PLACEMENT OF THE WET BURLAP, THE FILM SHALL BE REAPPLIED.

FOG SPRAY OF WATER

DECKS AND SLABS SHALL BE GIVEN A FOG SPRAY OF WATER, FOGGING SHALL CONTINUE UNTIL THE WET BURLAP IS PLACED. FOG MISTING IS TO KEEP THE ENVIRONMENT SURROUNDING THE CONCRETE HUMID TO PREVENT EXCESSIVE EVAPORATION FROM THE SURFACE OF UNHARDENED CONCRETE. FOG MISTING SHALL NOT BE USED TO APPLY WATER TO THE SURFACE OF THE CONCRETE TO FACILITATE LUBRICATION FOR FINISHING PURPOSES. FOGGING EQUIPMENT SHALL HAVE WATER PRESSURE SYSTEMS RATED AT 2400 P.S.I. OR GREATER AND DISCHARGE APPROXIMATELY 2 TO 3 GALLONS PER MINUTE. WIDE ANGLE AND SHARP ANGLE NOZZLES SHALL BE USED FOR LOW WIND AND WINDY CONDITIONS, RESPECTIVELY. CURING SHALL BE IN ACCORDANCE WITH SI.14 METHOD (A) WATER CURING USING CONTINUOUS SPRINKLING AND NO METHOD WHICH RETARDS EVAPORATION FROM THE BURLAP WILL BE ALLOWED. THE PROVISIONS OF SS 836 SHALL NOT BE USED UNDER THIS ITEM OF WORK. WHEN POURING UNDER PROVISION OF SI.12 METHODS WHICH RETARD EVAPORATION FROM THE BURLAP SHALL BE PERMITTED. PROVISIONS FOR SUPPLYING CURING WATER SHALL BE ON SITE AND OPERABLE BEFORE A POUR WILL BE PERMITTED TO START. CURING WATER SUPPLY PROVISIONS SHALL REMAIN ON SITE THROUGHOUT THE ENTIRE CURE PERIOD. THEY SHALL BE REPLENISHED, AS REQUIRED, WITH A SHUTTLE TANKER TRUCK OR A LOCAL WATER SOURCE SUCH AS A FIRE HYDRANT. CARE SHALL BE TAKEN TO AVOID THERMAL SHOCK OR EXCESSIVELY STEEP THERMAL GRADIENTS DUE TO THE USE OF COLD CURING WATER. CURING WATER SHOULD NOT BE MORE THAN 20 DEGREE F COOLER THAN THE CONCRETE, BECAUSE OF SURFACE TEMPERATURE STRESSES WHICH COULD CAUSE CRACKING.

J. CONCRETE ACCEPTANCE SAMPLING AND TESTING

ACCEPTANCE SAMPLING & TESTING OF THE LIGHTWEIGHT CONCRETE IS THE RESPONSIBILITY OF THE DEPARTMENT.

FOR EACH TEST SPECIMEN A FULL SET OF CONCRETE TESTS INCLUDING YIELD, WET UNIT WEIGHT, SLUMP, PERCENT AIR ENTRAINING AND STRENGTH SHALL BE PERFORMED. IN ADDITION, FOR EVERY TWO HUNDRED (200) CUBIC YARDS PLACED, A DRY UNIT WEIGHT TEST, SHALL BE PERFORMED. METHODS OF SAMPLING, CURING AND TESTING SHALL BE IN ACCORDANCE WITH ASTM, APPLICABLE SECTIONS. THE TESTING LAB SHALL FURNISH CERTIFIED TEST RESULTS TO THE ENGINEER WITHIN SEVEN (7) DAYS OF COMPLETION OF THE TEST. TEST RESULTS WHICH ARE DEFICIENT SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

ON ALL STRUCTURES, THREE TEST CYLINDERS SHALL BE MADE FROM EACH FIFTY (50) CUBIC YARDS, OR FRACTION THEREOF, OF CONCRETE THAT IS INCORPORATED INTO THE WORK EACH DAY.

AT TWENTY-EIGHT DAYS THE THREE CYLINDERS ARE TO BE TESTED AND THE AVERAGE COMPRESSIVE STRENGTH RECORDED AND DEFINED AS THE "STRENGTH TEST".

AT THE OPTION OF THE CONTRACTOR THREE ADDITIONAL TEST CYLINDERS SHALL BE CAST AT HIS EXPENSE FOR BRIDGE DECK AND CONCRETE BEAM PLACEMENTS TO DETERMINE WHEN THE DECK MAY BE OPENED TO CONSTRUCTION TRAFFIC IN EXCESS OF SIX (6) TONS.

K. ACCEPTANCE OF CONCRETE

THE STRENGTH OF THE CONCRETE WILL BE CONSIDERED SATISFACTORY IF THE VALUE DETERMINED BY THE "STRENGTH TEST" EQUALS OR EXCEEDS 4,500 PSI. TEST RESULTS FAILING TO MEET THE 4,500 PSI REQUIREMENT WILL BE THE BASIS FOR DETERMINING REPLACEMENT OR A PROPORTIONATE CREDIT TO THE STATE AS FOLLOWS:

1. "STRENGTH TEST" OF LESS THAN 3,500 PSI, REPLACEMENT AT THE EXPENSE OF THE CONTRACTOR.

2. "STRENGTH TEST" OF 3,500 TO 4,500 PSI, PROPORTIONATE CREDIT TO THE STATE CALCULATED BY MULTIPLYING THE RATIO OF THE DEFICIENT STRENGTH TO 4,500 PSI, TIMES THE NUMBER OF CUBIC YARDS PLACED IN THE LOT TESTED, TIMES THE CONTRACT UNIT COST FOR CONCRETE. A LOT SHALL BE DEFINED AS EACH FIFTY (50) CUBIC YARDS OR FRACTION THEREOF FROM WHICH THE DEFICIENT SET OF TEST SPECIMENS WAS CAST.

L. LOADING OF STRUCTURE

TO PERMIT EARLY REMOVAL OF FALSEWORK OR OPENING TO TRAFFIC OF SIX (6) TONS OR LESS, THE REQUIREMENTS OF CMS 511.14 SHALL APPLY.

TO PERMIT OPENING TO TRAFFIC GREATER THAN SIX (6) TONS THE REQUIREMENTS OF CMS 511.14 SHALL APPLY AND THE AVERAGE STRENGTH OF THE THREE OPTIONAL TEST CYLINDERS NOTED IN "CONCRETE ACCEPTANCE SAMPLING AND TESTING", TESTED IN ACCORDANCE WITH ASTM C39, SHALL BE 3500 PSI MINIMUM.

ALL TESTING NOTED IN SECTION 511.14 AND OPTIONAL CYLINDER TESTING SHALL BE DONE AT THE CONTRACTOR'S EXPENSE BY A TESTING LABORATORY (CCRL) APPROVED BY THE ENGINEER. ALL BEAM TESTS SHALL BE PERFORMED ACCORDING TO STANDARD METHODS ON FILE IN THE OFFICE OF THE DIRECTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO REQUESTING ALL TESTS AND THE TESTING LABORATORY SHALL FURNISH CERTIFIED TEST RESULTS TO THE ENGINEER FOR APPROVAL PRIOR TO THE TIME THE CONTRACTOR DESIRES TO OPEN A SECTION OF DECK TO TRAFFIC.

FHWA REGION	STATE	PROJECT	
5	OHIO	BHF-73(51)	

9/547

CUYAHOGA COUNTY
CUY-2-14.66

(AB) As Built

PAVLO ENGINEERING CO., P.C.
NEW YORK, NEW YORK

CUYAHOGA COUNTY ENGINEER
CLEVELAND OHIO

MAIN AVENUE BRIDGE
CITY OF CLEVELAND
BRIDGE OVER THE CUYAHOGA RIVER VALLEY

GENERAL NOTES-3

BRIDGE NO. 193 REPORT NO. 7119 DATE Dec.5, 1989

NO. B-136 G9/93

DESIGN	DRAWN	CHECKED	REVISED TO AS BUILT
H.T.	C.P.	A.T.	AS BUILT 2/94

MICROFILMED
JUL 20 1994

M. TECHNICAL ASSISTANCE

PRIOR TO THE FIRST CONCRETE PLACEMENT, THE CONTRACTOR SHALL ARRANGE A PRE-PLACEMENT MEETING TO BE CONDUCTED BY A TECHNICAL REPRESENTATIVE OF THE SHRINKAGE COMPENSATING CEMENT PRODUCER. IN ATTENDANCE SHALL BE THE CONTRACTOR'S SUPERINTENDENT, THE CONCRETE PLACEMENT AND FINISHING FOREMAN, A TECHNICAL REPRESENTATIVE OF THE LIGHTWEIGHT AGGREGATE SUPPLIER, A * REPRESENTATIVE FROM THE CONCRETE SUPPLIER AND DEPARTMENT REPRESENTATIVES AS DETERMINED BY THE ENGINEER. AT A MINUMUM THE MEETING AGENDA SHALL INCLUDE DISCUSSION OF BATCHING, HANDLING, TRANSPORTATION, PLACEMENT, FINISHING AND CURING SHRINKAGE COMPENSATING CEMENT CONCRETE. THE SHRINKAGE COMPENSATING CEMENT PRODUCER AND LIGHTWEIGHT AGGREGATE SUPPLIER SHALL ADDRESS ALL KNOWN PECULARITIES OF LIGHTWEIGHT CONCRETE USING SHRINKAGE COMPENSATING CEMENT. A TECHNICAL REPRESENTATIVE FROM THE SHRINKAGE COMPENSATING CEMENT PRODUCER SHALL MONITOR BATCHING, PLACEMENT, FINISHING AND INITIAL CURING DURING THE FIRST PLACEMENT OF EACH TYPE OF CONCRETING OPERATIONS (I.E. BRIDGE DECK CONCRETE, ETC.).

* TECHNICAL

N. BASIS OF PAYMENT

PAYMENT WILL BE MADE AT THE CONTRACT PRICE FOR:

ITEM	UNIT	DESCRIPTION
SPECIAL	CU. YD.	CLASS S LIGHTWEIGHT CONCRETE, SUPERSTRUCTURE (USING SHRINKAGE COMPENSATING CEMENT)

NOTE:
THE CONTRACTOR HAS THE OPTION TO USE STAY-IN-PLACE FORMS. SEE STANDARD DRAWING PSF-1-87 "PERMANENT STEEL DECK FORMS" SHEETS 1 OF 2 AND 2 OF 2. THE FORMS SHALL HAVE THE FOLLOWING PROPERTIES: S_{xx}=0.2131 CUBIC INCHES, I=0.2498 IN.^{4} . THE GAUGE OF THE SUPPORTING COMPONENTS SHALL BE 10. CAVITIES IN THE STEEL DECK FORM TO BE FILLED WITH STYROFOAM PRIOR TO POURING CONCRETE. DEAD LOAD FOR STAY-IN-PLACE FORMS SHALL NOT EXCEED 5 LBS. PER SQ. FT.

23. ITEM 519--PATCHING CONCRETE STRUCTURES, AS PER PLAN

A. DESCRIPTION
THIS ITEM SHALL CONSIST OF FURNISHING THE NECESSARY LABOR, MATERIALS AND EQUIPMENT TO REPAIR ALL SPALLED, DETERIORATED AND DELAMINATED CONCRETE AREAS WITH AN AVEHAGE DEPTH GREATER THAN SIX INCHES, WITH EXPOSED PRIMARY REINFORCEMENT THAT WILL REMAIN AS PART OF THE RECONSTRUCTED BRIDGES. ALL AREAS OF DETERIORATED CONCRETE WILL BE PATCHED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. DETERIORATED AREAS FOR WHICH PATCHING WOULD BE CONSIDERED COSMETIC, OR OF NO STRUCTURAL SIGNIFICANCE, WILL BE PATCHED ONLY IF THEY ARE READILY VISIBLE ABOVE THE GROUND LINE. ALL APPLICABLE PROVISIONS OF ITEM 519 OF THE SPECIFICATIONS SHALL APPLY, EXCEPT AS MODIFIED AND THE FOLLOWING SHALL BE CONSIDERED AS SUPPLEMENTAL TO PROVISIONS SET FORTH THEREIN.

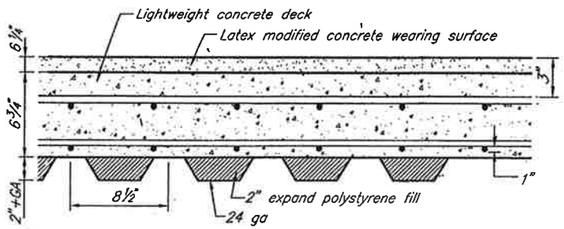
NOTE 22. CONTINUED FROM G9.

E. QUALITY CONTROL PLAN
THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL DEVELOPE A QUALITY CONTROL PLAN DETAILING THE PROCESS CONTROL PROCEDURE HE PROPOSES TO FOLLOW IN ORDER TO ASSURE THAT THE CONCRETE MEETS THE REQUIREMENTS OF THIS SPECIFICATION. THIS PLAN SHALL OUTLINE THE METHODS OF TESTING THAT WILL BE EMPLOYED AND FREQUENCY OF TESTING. PERSONNEL IN CHARGE OF THE CONTRACTOR'S QUALITY CONTROL PROGRAM SHALL BE DESIGNATED BY NAME, SHALL BE PROFICIENT IN LIGHTWEIGHT CONCRETE TECHNOLOGY AND SHALL BE THOROUGHLY FAMILIAR WITH THE PERTINENT SPECIFICATIONS RELATING TO THE APPROVED MIX DESIGN, TESTING AND THE PRODUCTION OF LIGHTWEIGHT CONCRETE. THE PERSON IN CHARGE OF QUALITY CONTROL SHALL BE CAPABLE OF DESIGNING AND ADJUSTING LIGHTWEIGHT CONCRETE MIXTURES AND CONDUCTING TESTS ON THE PLASTIC CONCRETE AND COMPONENT MATERIALS IN ACCORDANCE WITH ACI OR ASTM STANDARDS. THIS PLAN SHALL BE SUBMITTED TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE FOR APPROVAL.

F. QUALITY CONTROL SYSTEM
THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A QUALITY CONTROL SYSTEM INCLUDING PERFORMANCE OF NECESSARY INSPECTION AND TESTING THAT WILL PROVIDE REASONABLE ASSURANCE THAT THE CONCRETE AND ITS COMPONENT MATERIALS CONFORM TO SPECIFICATION REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL INSPECTIONS AND TESTS WHICH SHALL INDICATE THE NATURE OF THE INSPECTIONS, THE AMOUNT AND TYPE OF LABORATORY OR FIELD TESTING, THE RESULTS OF THESE TESTS, AND ACTION TAKEN WHEN DEFICIENCIES WERE ENCOUNTERED OR MATERIAL WAS REJECTED. THE CONTRACTOR'S DOCUMENTATION PROCEDURES SHALL BE SUBJECTED TO REVIEW AND APPROVAL BY THE ENGINEER. COPIES OF ALL CHARTS AND RECORDS DOCUMENTING THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTS SHALL BE SUBMITTED TO THE DEPARTMENT UPON COMPLETION OF THE WORK.

AS PART OF THE QUALITY CONTROL SYSTEM, THE CONTRACTOR SHALL HAVE A TESTING LABORATORY (CLRL) PERFORM AT LEAST ONE 28 DAY DRY UNIT WEIGHT TEST FOR EVERY TWO HUNDRED (200) CUBIC YARDS, OR FRACTION THEREOF, OF CONCRETE THAT IS INCORPORATED INTO THE WORK EACH DAY. CERTIFIED TEST RESULTS SHALL BE FURNISHED TO THE ENGINEER.

(AB)



"BRIDGEFORM"
Stay-in-place form
S_x = 0.127 in^3 1.5psf
I_x = 0.25 in^4 2.0psf (with fill)

TYPICAL STAY-IN-PLACE FORM SECTION

Applies to Section N, Main River Spans, Forward Approach Spans, and the Lakefront Ramp (Trestle Section and Stadium Section). For additional details, see shop drawings.

Cyclops Corporation
Bowman Metal Deck Division
P.O. Box 260 Pittsburgh, PA (5230-0260)
(412) 429-7514

Sheets 1 through 29

OHIO
FHWA REGION 5
9A 547
CUY-2-14.66

AS BUILT 2/94
G9A 93

TRUSS DEAD LOAD BUMP-UPS

* Gusset plates are not included in main truss bump-ups. These dead loads are applied within STAAD at each panel point to increase dead load accuracy.

GUSSET PLATES NOT INCLUDED. GUSSET PLATE DEAD LOADS APPLIED INDIVIDUALLY AT EACH PANEL POINT

Lower Chord				Upper Chord				Diagonal Members			Vertical Members		
Member	Location	Factor	AVG	Member	Location	Factor	AVG	Member	Location	Factor	Member	Location	Factor
L5L6	Midspan	1.50		U6U7		1.87		U0L1		1.13	U0L0		1.11
L33L34	Midspan	1.42		U20U21		1.36		U3-L4		1.26	U3L3		1.45
L64L65	Midspan	1.48		U45U46		1.23		U32-L33		1.08	U22L22		1.12
L105L106	Midspan	1.36		U75U76		1.35		U50L51		1.05	U43L43		1.20
L86L87	Midspan	1.33		U114U115		1.38		U62L61		1.25	U61L61		1.17
L35L36	Midspan	1.38		U85U86		1.22		U90L89		1.21	U96L96		1.37
L56L57	Midspan	1.33	**1.40**	U98U99		1.30		U102L101		1.25	U87L87		1.21
L111L112	PIER	1.33		U121U122		1.31		U111L112		1.21	U111L111		1.22
L91L92	PIER	1.28		U116U117		1.35		U124L123		1.09	U57L57		1.25
L90L91	PIER	1.35		U55U56		1.16	**1.35**			**1.17**	U80L80		1.14
L109L110	PIER	1.46		U127U128	SPAN 11	1.08					U74L74		1.15
L74L75	PIER	1.56		U130U131	SPAN 11	1.13	**1.10**						**1.22**
L19L20	PIER	1.64				**1.31**							
L23L24	PIER	1.41	**1.43**										
L128L129	SPAN 11	1.67											
L130L131	SPAN 11	1.29											
L132L133	SPAN 11	1.16	**1.37**										
		1.41											

Made By	DMP	Date	2/2/2012	Job No.	P402110046
Checked By	CTG	Date	2/6/2012	Sheet No.	

Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 69.39 in^2 Weight = 4.74 kips

Length = 20.06 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
2 fills	2	16.00	0.75	9.50	0.06
splice	2	10.50	0.75	31.50	0.14
splice	4	6.50	0.50	40.50	0.15

ANGLES

Description	Number	Length (ft.)	Weight/FT	
				0.00

Total Added Plates =	0.35	kips
Grand Total (with 5% bump-up)=	5.35	kips
Bump-Up Factor =	**1.13**	

Made By	DMP	Date	1/31/2012	Job No.	P402110046
Checked By	CTG	Date	2/1/2012	Sheet No.	

Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 51.43 in^2 Weight = 4.06 kips

Length = 23.18 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
2 fills	2	15.50	0.19	69.00	0.11

ANGLES

Description	Number	Length (ft.)	Weight/FT	
				0.00

Total Added Plates =	0.11	kips
Grand Total (with 5% bump-up)=	4.38	kips
Bump-Up Factor =	**1.08**	

Made By DMP Date 2/1/2012 Job No. P402110046
Checked By CTG Date 2/3/2012 Sheet No.

Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area = 67.79 in^2 Weight = 7.62 kips
Length = 33.02 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 splice plate	2	16.00	0.50	47.00	0.21
1 fill	2	16.00	0.38	31.75	0.11
1 fill	2	16.00	0.38	42.75	0.15
1 splice plate	2	16.00	0.38	54.50	0.19

ANGLES

Description	Number	Length (ft.)	LB/FT	
				0.00

Total Added Plates =	0.65	
Grand Total =	8.27	5% Bump-U
Bump-Up Factor =	**1.09**	

Made By DMP Date 1/31/2012 Job No. P402110046
Checked By CTG Date 2/1/2012 Sheet No.
Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 147.49 in^2 Weight = 10.04 kips Total # of handholes= 8
Length = 20.01 ft Handhole (HH) A ft^2= 1
Perf PL steel(ft^3)= 0.70 > kips > **0.34** HH width (in)= 11.5
FROM SHOP DRAWINGS: C PL th= 0.7500 ft^3/HH= 0.0625

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 splice	1	22.00	0.50	47.25	0.15
1 splice	1	22.00	1.00	60.25	0.38
2 fills	2	14.00	0.31	47.75	0.12
2 fills	2	27.50	0.13	47.75	0.09
2 splice plates	2	27.50	1.00	60.00	0.94
diaphragm plate	1	27.50	0.50	20.50	0.08
diaphragm fills	2	14.00	0.31	10.50	0.03
diaphragm plate	1	27.50	0.50	18.25	0.07

Perforated Plate 0.34

ANGLES

Description	Number	Length (ft.)	Weight/FT	
5 x 3 1/2 x 1/2	4	2.29	13.60	0.12
4 x 3 1/2 x 3/8	4	0.75	9.10	0.03
7 x 4 x 1/2	4	2.29	17.90	0.16

Total Added Plates = 2.51 kips
Grand Total (with 5% bump-up)= 13.18 kips
Bump-Up Factor = 1.31

Made By	DMP	Date	1/31/2012	Job No.	P402110046
Checked By	CTG	Date	2/1/2012	Sheet No.	

Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area =	139.21	in^2		Weight =	9.48	kips	Total # of handholes=	8
Length =	20.01	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	0.64	> kips >	**0.31**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.6875			ft^3/HH=	0.0572917

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
2 plates	2	27.50	1.00	60.00	0.94
2 plates	2	22.00	0.50	31.75	0.20
2 fills	2	28.00	0.63	49.25	0.49
Diaphragm plate	1	27.50	0.50	18.50	0.07
Diaphragm plate	1	27.50	0.50	21.00	0.08
1 fill	1	23.50	0.13	34.25	0.03
1 u.m. plate	1	23.50	0.75	54.25	0.27

Perforated Plate 0.31

ANGLES

Description	Number	Length (ft.)	Weight/FT	
7 x 4 x 1/2	8	2.29	17.90	0.33
4 x 3 1/2 x 3/8	4	0.75	9.10	0.03

Total Added Plates =	2.75	kips
Grand Total (with 5% bump-up)=	12.84	kips
Bump-Up Factor =	**1.35**	

Made By DMP Date 1/31/2012 Job No. P402110046
Checked By CTG Date 1/31/2012 Sheet No.

Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area =	108.44	in^2		Weight =	7.38	kips	Total # of handholes=	8
Length =	20.00	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	0.70	> kips >	**0.34**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.7500			ft^3/HH=	0.0625

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
diaphragm plate	1	27.50	0.50	20.00	0.08
2 splice	2	27.50	0.75	80.75	0.94
2 fills	2	14.00	0.75	37.00	0.22
diaphragm plate	1	27.50	0.50	21.50	0.08
2 fills	2	14.00	0.25	10.50	0.02
1 plate	1	23.50	0.75	66.50	0.33

Perforated Plate 0.34

ANGLES

Description	Number	Length (ft.)	Weight/FT	
5 x 3 1/2 x 1/2	8	2.46	13.60	0.27

Total Added Plates =	2.29	kips
Grand Total (with 5% bump-up)=	10.15	kips
Bump-Up Factor =	**1.38**	

Made By DMP Date 2/1/2012 Job No. P402110046
Checked By CTG Date 2/3/2012 Sheet No.

Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area = 48.75 in^2 Weight = 7.50 kips Total # of handholes= 12
Length = 45.21 ft Handhole (HH) A ft^2= 1
Perf PL steel(ft^3)= 1.31 > kips > **0.64** HH width (in)= 11.5
C PL th= 0.5000 ft^3/HH= 0.0416667

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
Diaphragm fill	3	8.00	0.50	23.50	0.08
					0.00
					0.00
					0.00
					0.00
Perforated Plate					0.64

ANGLES

Description	Number	Length (ft.)	LB/FT	
4 x 4 x 3/8	1	2.35	9.80	0.02
4 x 4 x 3/8	1	4.35	9.80	0.04
4 x 4 x 3/8	1	2.60	9.80	0.03
4 x 4 x 3/8	1	3.94	9.80	0.04

Wide Flange

Description	Number	Length (ft.)	Weight/FT	
10WF45	3	1.96	45.00	0.26

Total Added Plates =	1.11
Grand Total (with 5% bump-up)=	9.04
Bump-Up Factor =	**1.21**

Made By DMP Date 2/1/2012 Job No. P402110046
Checked By CTG Date 2/6/2012 Sheet No.

Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area =	64.25	in^2		Weight =	12.10	kips	Total # of handholes=	13
Length =	55.33	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	2.08	> kips >	**1.02**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.6250			ft^3/HH=	0.0520833

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
U.M. plate	3	8.00	0.38	23.50	0.06
					0.00

Perforated Plate 1.02

ANGLES

Description	Number	Length (ft.)	LB/FT	
6 x 4 x 1/2	2	5.67	16.20	0.18
6 x 4 x 1/2	2	6.38	16.20	0.21
6 x 4 x 1/2	4	1.79	16.20	0.12
5 x 3 1/2 x 5/8	1	1.54	16.80	0.03

Wide Flange

Description	Number	Length (ft.)	Weight/FT	
14WF53	3	2.00	53.00	0.32

Total Added Plates =	1.93
Grand Total (with 5% bump-up)=	14.73
Bump-Up Factor =	**1.22**

Made By DMP Date 2/1/2012 Job No. P402110046
Checked By CTG Date 2/3/2012 Sheet No.

Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area = 31.93 in^2 Weight = 2.18 kips
Length = 20.10 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 fill	2	12.00	0.63	49.75	0.21
1 fill	2	12.00	0.63	46.75	0.20

Perforated Plate 0.00

ANGLES

Description	Number	Length (ft.)	LB/FT	
				0.00

Total Added Plates = 0.41
Grand Total (with 5% bump-up)= 2.72
Bump-Up Factor = 1.25

Made By	DMP	Date	1/31/2012	Job No.	P402110046
Checked By	CTG	Date	1/31/2012	Sheet No.	

Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area =	111.07	in^2		Weight =	7.56	kips	Total # of handholes=	8
Length =	20.01	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	0.58	> kips >	**0.29**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.6250			ft^3/HH=	0.0520833

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 splice	1	22.00	0.75	38.00	0.18
2 splice	2	27.50	0.63	34.50	0.34
2 fills	2	27.50	0.13	25.50	0.05
diaphragm plate	2	27.50	0.50	22.00	0.17
diaphragm plate	1	27.50	0.50	21.50	0.08
1 splice	1	22.00	0.63	38.00	0.15
1 splice	1	22.00	0.63	40.00	0.16

Perforated Plate 0.29

ANGLES

Description	Number	Length (ft.)	Weight/FT	
4 x 3 1/2 x 1/2	4	2.29	11.90	0.11
4 x 3 1/2 x 3/8	4	0.75	9.10	0.03
5 x 3 1/2 x 1/2	4	2.29	13.60	0.12
4 x 4 x 1/2	4	2.29	12.80	0.12

Total Added Plates =	1.79	kips
Grand Total (with 5% bump-up)=	9.82	kips
Bump-Up Factor =	**1.30**	

Made By DMP Date 2/1/2012 Job No. P402110046
Checked By CTG Date 2/6/2012 Sheet No.

Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area =	89.82	in^2		Weight =	3.03	kips	Total # of handholes=	2
Length =	9.91	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	0.31	> kips >	**0.15**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.5000			ft^3/HH=	0.0416667

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
Fill	4	8.00	0.38	15.50	0.05
Cap Plate	2	22.00	0.75	25.25	0.24

Perforated Plate 0.15

ANGLES

Description	Number	Length (ft.)	LB/FT	
8 x 4 x 5/8	4	1.88	24.20	0.18
8 x 4 x 1/2	2	1.35	19.60	0.05
4 x 4 x 5/8	4	1.83	15.70	0.12
4 x 4 x 5/8	4	1.58	15.70	0.10
8 x 4 3/4 x 1/2	2	0.79	20.90	0.03

Total Added Plates =	0.92
Grand Total (with 5% bump-up)=	4.15
Bump-Up Factor =	**1.37**

TranSystems

Made By DMP Date 2/1/2012 Job No. P402110046
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Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area = 61.75 in^2 Weight = 11.92 kips Total # of handholes= 6
Length = 56.73 ft Handhole (HH) A ft^2= 1
Perf PL steel(ft^3)= 2.52 > kips > **1.23** HH width (in)= 11.5
C PL th= 0.6250 ft^3/HH= 0.0520833

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
Diaphragm fill	3	8.00	0.13	23.50	0.02
1 bar	1	3.00	0.38	23.50	0.01
2 fills	2	4.00	0.63	19.75	0.03
2 bars	2	4.00	0.63	13.50	0.02
1 bar	1	3.00	0.38	23.50	0.01

Perforated Plate 1.23

ANGLES

Description	Number	Length (ft.)	LB/FT	
4 x 4 x 1/2	1	3.06	12.80	0.04
4 x 4 x 1/2	1	3.31	12.80	0.04
4 x 4 x 1/2	1	3.00	12.80	0.04
4 x 4 x 1/2	1	2.56	12.80	0.03

Wide Flange

Description	Number	Length (ft.)	Weight/FT	
12WF50	3	1.96	50.00	0.29

Total Added Plates = 1.76
Grand Total (with 5% bump-up)= 14.37
Bump-Up Factor = 1.21

Made By DMP Date 2/1/2012 Job No. P402110046
Checked By CTG Date 2/6/2012 Sheet No.

Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area =	77.10	in^2		Weight =	8.58	kips	Total # of handholes=	7
Length =	32.69	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	1.39	> kips >	**0.68**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.6875			ft^3/HH=	0.0572917

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
Fill	2	22.00	0.75	7.50	0.07
					0.00

Perforated Plate 0.68

ANGLES

Description	Number	Length (ft.)	LB/FT	
6 x 4 x 1/2	2	3.85	16.20	0.12
6 x 4 x 1/2	2	4.08	16.20	0.13
6 x 4 x 1/2	4	1.79	16.20	0.12
				0.00

Wide Flange

Description	Number	Length (ft.)	Weight/FT	
12WF50	2	1.96	50.00	0.20

Total Added Plates =	1.32
Grand Total (with 5% bump-up)=	10.39
Bump-Up Factor =	**1.21**

Made By DMP Date 1/31/2012 Job No. P402110046
Checked By CTG Date 1/31/2012 Sheet No.

Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area =	129.49	in^2		Weight =	8.81	kips	Total # of handholes=	8
Length =	20.00	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	0.70	> kips >	**0.34**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.7500			ft^3/HH=	0.0625

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
2 fills	2	22.00	0.63	20.00	0.16
2 fills	2	14.00	0.69	42.00	0.23
diaphragm plate	2	28.00	0.50	20.75	0.16
1 splice plate	1	22.00	0.63	56.50	0.22
2 fills	2	14.00	0.69	10.50	0.06

Perforated Plate 0.34

ANGLES

Description	Number	Length (ft.)	Weight/FT	
5 x 3 1/2 x 1/2	8	2.33	13.60	0.25

Total Added Plates =	1.42	kips
Grand Total (with 5% bump-up)=	10.75	kips
Bump-Up Factor =	**1.22**	

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Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area = 49.79 in^2 Weight = 3.11 kips

Length = 18.35 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
Fill	2	16.00	0.19	50.75	0.09
Fill	2	16.00	0.19	49.75	0.08

ANGLES

Description	Number	Length (ft.)	LB/FT	
4 x 4 x 1/2	4	1.88	12.80	0.10

Total Added Plates =	0.27
Grand Total (with 5% bump-up)=	3.55
Bump-Up Factor =	**1.14**

Made By	DMP	Date	1/31/2012	Job No.	P402110046
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Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area =	68.55	in^2		Weight =	4.67	kips	Total # of handholes=	8
Length =	20.00	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	0.47	> kips >	**0.23**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.5000			ft^3/HH=	0.0416667

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
2 fills	2	23.50	0.69	21.00	0.19
2 splice	2	29.00	0.50	23.00	0.19
2 fills	2	14.00	0.44	14.75	0.05
diaphragm plate	2	28.00	0.50	22.50	0.18
2 fills	2	14.00	0.44	8.50	0.03
2 fills	2	14.00	0.44	14.50	0.05
1 splice	1	23.50	0.63	32.50	0.14

ANGLES

Description	Number	Length (ft.)	Weight/FT	
4 x 4 x 1/2	4	2.33	12.80	0.12
7 x 4 x 1/2	4	2.33	17.90	0.17
4 x 3 1/2 x 3/8	2	0.75	9.10	0.01

Perforated Plate 0.23

Total Added Plates =	1.35	kips
Grand Total (with 5% bump-up)=	6.32	kips
Bump-Up Factor =	**1.35**	

Made By DMP Date 2/2/2012 Job No. P402110046
Checked By CTG Date Sheet No.

Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area =	122.54	in^2		Weight =	30.56	kips	Total # of handholes=	5
Length =	73.29	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	3.40	> kips >	**1.66**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.6250			ft^3/HH=	0.0520833

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
Diaphragm fill	4	7.00	0.13	20.00	0.02
fills	2	26.00	0.75	32.75	0.36

Perforated Plate 1.66

ANGLES

Description	Number	Length (ft.)	LB/FT	
7 x 4 x 1/2	4	3.56	17.19	0.24
7 x 4 x 1/2	4	1.81	17.19	0.12
5 x 3 1/2 x 1/2	2	1.75	13.60	0.05

Wide Flange

Description	Number	Length (ft.)	Weight/FT	
16WF45	4	1.83	45.00	0.33

Total Added Plates =	2.79
Grand Total (with 5% bump-up)=	35.02
Bump-Up Factor =	**1.15**

Made By DMP Date 2/1/2012 Job No. P402110046
Checked By CTG Date 2/3/2012 Sheet No.

Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area =	41.25	in^2		Weight =	7.03	kips	Total # of handholes=	6
Length =	50.06	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	1.75	> kips >	**0.86**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.5000			ft^3/HH=	0.0416667

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
Diaphragm fill	3	8.00	0.50	23.50	0.08

Perforated Plate 0.86

ANGLES

Description	Number	Length (ft.)	LB/FT	
4 x 4 x 3/8	1	2.77	9.80	0.03
4 x 4 x 3/8	1	2.19	9.80	0.02
4 x 4 x 3/8	1	2.54	9.80	0.02
4 x 4 x 3/8	1	3.56	9.80	0.03

Wide Flange

Description	Number	Length (ft.)	Weight/FT	
10WF45	3	1.96	45.00	0.26

Total Added Plates =	1.31
Grand Total (with 5% bump-up)=	8.75
Bump-Up Factor =	**1.25**

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Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area =	81.69	in^2		Weight =	14.63	kips	Total # of handholes=	12
Length =	52.61	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	2.00	> kips >	**0.98**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.6250			ft^3/HH=	0.0520833

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
u.m. plate	3	8.00	0.38	23.00	0.06

Perforated Plate 0.98

ANGLES

Description	Number	Length (ft.)	LB/FT	
6 x 4 x 1/2	2	2.90	16.20	0.09
6 x 4 x 1/2	2	3.02	16.20	0.10
6 x 4 x 1/2	2	1.98	16.20	0.06
5 x 3 1/2 x 3/8	2	1.54	10.40	0.03

Wide Flange

Description	Number	Length (ft.)	Weight/FT	
14WF53	3	1.96	53.00	0.31

Total Added Plates =	1.64
Grand Total (with 5% bump-up)=	17.08
Bump-Up Factor =	**1.17**

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Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area = 37.79 in^2 Weight = 2.23 kips
Length = 17.37 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
U.M. Plate	2	14.00	0.56	52.75	0.24
U.M. Plate	1	14.00	0.56	19.00	0.04
					0.00
					0.00

ANGLES

Description	Number	Length (ft.)	LB/FT	
5 x 3 1/2 x 1/2	2	1.67	13.60	0.05
4 x 4 x 1/2	4	1.88	12.80	0.10
				0.00

Total Added Plates =	0.42
Grand Total (with 5% bump-up)=	2.79
Bump-Up Factor =	**1.25**

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Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 179.88 in^2 Weight = 12.25 kips Total # of handholes= 8

Length = 20.01 ft Handhole (HH) A ft^2= 1

Perf PL steel(ft^3)= 0.70 > kips > **0.34** HH width (in)= 11.5

FROM SHOP DRAWINGS: C PL th= 0.7500 ft^3/HH= 0.0625

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
diaphragm plate	2	24.00	0.50	18.50	0.13
2 splice plates	2	26.00	0.75	29.00	0.32
1 splice plate	1	22.00	0.75	50.00	0.23

Perforated Plate 0.34

ANGLES

Description	Number	Length (ft.)	Weight/FT	
4 x 4 x 1/2	4	2.00	12.80	0.10
3 1/2 x 3 1/2 x 1/2	4	2.00	11.10	0.09
4 x 3 1/2 x 3/8	2	0.75	9.10	0.01

Total Added Plates =	1.23	kips
Grand Total (with 5% bump-up)=	14.15	kips
Bump-Up Factor =	**1.16**	

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Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area = 53.54 in^2 Weight = 9.10 kips
Length = 49.94 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 fill	2	14.00	0.13	38.25	0.04

ANGLES

Description	Number	Length (ft.)	LB/FT	
				0.00

Total Added Plates =	0.04
Grand Total (with 5% bump-up)=	9.59
Bump-Up Factor =	**1.05**

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Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area =	62.77	in^2		Weight =	4.27	kips	Total # of handholes=	8
Length =	20.01	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	0.47	> kips >	**0.23**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.5000			ft^3/HH=	0.0416667

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
diaphragm plate	2	24.00	0.50	23.00	0.16
2 diaphragm fills	4	10.00	0.44	8.50	0.04
1 plate	1	23.50	0.50	25.50	0.08

Perforated Plate 0.23

ANGLES

Description	Number	Length (ft.)	Weight/FT	
4 x 4 x 1/2	4	2.00	12.80	0.10
5 x 3 1/2 x 1/2	4	2.00	13.60	0.11

Total Added Plates =	0.72	kips
Grand Total (with 5% bump-up)=	5.25	kips
Bump-Up Factor =	**1.23**	

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Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area = 46.63 in^2 Weight = 3.54 kips

Length = 22.29 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 Fill	2	14.00	0.31	47.00	0.12
1 Fill	1	22.00	0.31	54.50	0.11
1 Fill	1	22.00	0.31	47.50	0.09

ANGLES

Description	Number	Length (ft.)	LB/FT	
8 x 4 x 1/2	1	1.96	19.60	0.04
6 x 4 x 1/2	1	1.54	16.20	0.02
4 x 4 x 3/8	1	1.54	9.80	0.02
4 x 4 x 1/2	4	1.88	12.70	0.10

Total Added Plates =	0.49
Grand Total (with 5% bump-up)=	4.23
Bump-Up Factor =	**1.20**

Made By DMP Date 2/1/2012 Job No. P402110046
Checked By CTG Date 2/3/2012 Sheet No.

Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area = 50.04 in^2 Weight = 4.36 kips
Length = 25.60 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 fill	2	14.00	0.13	54.00	0.05
1 fill	2	14.00	0.13	56.50	0.06

ANGLES

Description	Number	Length (ft.)	LB/FT	
				0.00

Total Added Plates =	0.11
Grand Total (with 5% bump-up)=	4.69
Bump-Up Factor =	**1.08**

Made By DMP Date 2/1/2012 Job No. P402110046
Checked By CTG Date 2/6/2012 Sheet No.

Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area = 48.29 in^2 Weight = 3.90 kips
Length = 23.73 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
Fill	2	14.00	0.19	44.50	0.07
Fill	2	22.00	0.19	44.75	0.10

ANGLES

Description	Number	Length (ft.)	LB/FT	
4 x 4 x 1/2	4	1.88	12.80	0.10

Total Added Plates =	0.27
Grand Total (with 5% bump-up)=	4.37
Bump-Up Factor =	**1.12**

Made By DMP Date 2/8/2012 Job No. P402110046
Checked By Date Sheet No.

Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 49.00 in^2 Weight = 3.33 kips Total # of handholes= 5
Length = 19.96 ft Handhole (HH) A ft^2= 1
Perf PL steel(ft^3)= 0.59 > kips > **0.29** HH width (in)= 11.5
FROM SHOP DRAWINGS: C PL th= 0.5000 ft^3/HH= 0.0416667

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
splice plate	1	23.50	0.50	40.25	0.13
diaphragm plate	1	25.00	0.50	23.00	0.08
diaphragm fills	2	18.00	0.38	8.50	0.03
diaphragm plate	1	25.00	0.50	23.00	0.08
diaphragm fills	2	18.00	0.38	10.50	0.04
splice plate	1	23.50	0.50	23.25	0.08

Perforated Plate 0.29

ANGLES

Description	Number	Length (ft.)	Weight/FT	
4 x 4 x 1/2	1	2.08	12.80	0.03
5 x 3 1/2 x 1/2	1	2.08	13.60	0.03
4 x 3 1/2 x 3/8	28	0.75	9.10	0.19

Total Added Plates = 0.98 kips
Grand Total (with 5% bump-up)= 4.53 kips
Bump-Up Factor = 1.36

TranSystems

Made By DMP Date 1/30/2012 Job No. P402110046
Checked By CTG Date 1/31/2012 Sheet No.

Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 58.05 in^2 Weight = 3.95 kips Total # of handholes= 5
Length = 20.01 ft Handhole (HH) A ft^2= 1
Perf PL steel(ft^3)= 0.59 > kips > **0.29** HH width (in)= 11.5
FROM SHOP DRAWINGS: C PL th= 0.5000 ft^3/HH= 0.0416667

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 plate	1	22.00	0.75	43.50	0.20
1 fills	1	22.00	0.13	20.25	0.02
2 fills	2	24.00	0.50	12.81	0.09
2 fills	2	10.00	0.44	32.25	0.08
diaphragm plate	1	24.00	0.50	23.00	0.08
1 plate	1	15.00	0.50	24.06	0.05
diaphragm plate	1	23.50	0.50	26.75	0.09
diaphragm plate	1	23.50	0.75	54.00	0.27
base plate	1	30.00	1.00	25.50	0.22
2 fills	2	18.00	0.48	14.25	0.07
2 fills	2	14.25	0.81	28.25	0.19
2 fills	2	8.00	0.75	23.25	0.08
4 fills	4	5.50	0.75	46.25	0.22

ANGLES **Perf Plate** 0.29

Description	Number	Length (ft.)	Weight/FT	
3 1/2 x 3 1/2 x 1/2	1	1.96	11.10	0.02
7 x 4 x 1/2	4	2.00	17.90	0.14
4 x 3 1/2 x 3/8	2	0.75	9.10	0.01
4 x 4 x 5/8	2	2.04	15.70	0.06
6 x 4 x 5/8	1	2.04	20.00	0.04
6 x 6 x 3/4	4	4.48	28.70	0.51
4 x 4 x 5/8	4	2.56	15.70	0.16
8 x 6 x 3/4	2	1.96	33.80	0.13
5 x 5 x 1/2	2	2.25	16.20	0.07

Total Added Plates = 3.10 kips
Grand Total (with 5% bump-up)= 7.40 kips
Bump-Up Factor = 1.87

Made By DMP Date 2/1/2012 Job No. P402110046
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Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area = 28.97 in^2 Weight = 2.07 kips
Length = 21.00 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 fill	2	12.00	0.69	40.25	0.19
1 fill	2	12.00	0.69	48.50	0.23

ANGLES

Description	Number	Length (ft.)	LB/FT	
				0.00

Total Added Plates =	0.42
Grand Total (with 5% bump-up)=	2.61
Bump-Up Factor =	**1.26**

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Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area = 28.97 in^2 Weight = 1.47 kips
Length = 14.94 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 Fill	2	12.00	0.69	42.75	0.20
1 Fill	2	20.00	0.69	46.00	0.36

ANGLES

Description	Number	Length (ft.)	LB/FT	
				0.00

Total Added Plates =	0.56
Grand Total (with 5% bump-up)=	2.13
Bump-Up Factor =	**1.45**

Made By DMP Date 2/1/2012 Job No. P402110046
Checked By CTG Date 2/3/2012 Sheet No.

Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area = 43.70 in^2 Weight = 4.44 kips
Length = 29.88 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 fill	2	14.00	0.44	52.25	0.18
1 fill	2	14.00	0.44	44.75	0.16

ANGLES

Description	Number	Length (ft.)	LB/FT	
				0.00

Total Added Plates =	0.34
Grand Total (with 5% bump-up)=	5.02
Bump-Up Factor =	**1.13**

Made By	DMP	Date	2/1/2012	Job No.	P402110046
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Calculations For: ***CUY-2-1441***

FROM SECTION PROPERTY CALCS:

Area = 46.54 in^2 Weight = 5.38 kips

Length = 33.98 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
Fill	2	14.00	0.19	25.00	0.04
Splice	2	14.00	0.38	35.00	0.10
					0.00
					0.00

ANGLES

Description	Number	Length (ft.)	LB/FT	
5 x 3 1/2 x 3/8	2	1.71	10.40	0.04
4 x 4 x 5/8	4	1.88	15.70	0.12
3 x 3 x 3/8	2	1.88	7.20	0.03

Total Added Plates =	0.32
Grand Total (with 5% bump-up)=	5.99
Bump-Up Factor =	**1.11**

Made By	DMP	Date	2/2/2012	Job No.	P402110046
Checked By	CTG	Date	2/6/2012	Sheet No.	

Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 61.77 in^2 Weight = 4.20 kips

Length = 20.00 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
splice	2	6.50	0.88	68.00	0.22
lateral plate	2	19.50	0.50	38.00	0.21

ANGLES

Description	Number	Length (ft.)	LB/FT

Total Added Plates =	0.43
Grand Total (with 5% bump-up)=	4.86
Bump-Up Factor =	**1.16**

Made By	DMP	Date	2/2/2012	Job No.	P402110046
Checked By	CTG	Date	2/6/2012	Sheet No.	

Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 59.09 in^2 Weight = 4.02 kips

Length = 20.00 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
2 plates	2	15.50	0.38	80.25	0.26
2 fills	2	15.50	0.13	39.63	0.04
splice	2	6.50	0.88	80.00	0.26
splice	2	10.50	0.75	31.50	0.14
lateral plate	2	19.00	0.50	42.00	0.23

ANGLES

Description	Number	Length (ft.)	LB/FT

Total Added Plates =	0.93
Grand Total (with 5% bump-up)=	5.20
Bump-Up Factor =	**1.29**

Made By	DMP	Date	1/30/2012	Job No.	P402110046
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Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 27.63 in^2 Weight = 1.88 kips

Length = 20.00 ft

FROM SHOP DRAWINGS:

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
2 fills	2	14.50	0.75	47.50	0.29
2 fills	2	14.50	0.56	75.25	0.35
Splice	2	6.50	0.75	67.63	0.19
Lateral Plates	2	17.50	0.50	38.00	0.19
Splice	2	11.00	0.38	25.50	0.06
fills	2	11.00	0.25	20.25	0.03

ANGLES

Description	Number	Length (ft.)	LB/FT

Total Added Plates =	1.11
Grand Total (with 5% bump-up)=	3.14
Bump-Up Factor =	**1.67**

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Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 167.48 in^2 Weight = 13.65 kips Total # of handholes= 6
Length = 23.95 ft Handhole (HH) A ft^2= 1
Perf PL steel(ft^3)= 1.06 > kips > **0.52** HH width (in)= 11.5
FROM SHOP DRAWINGS: C PL th= 0.7500 ft^3/HH= 0.0625

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 plate	1	22.00	1.00	63.50	0.40
2 plates	2	33.50	0.75	47.50	0.68
2 splice plates	2	31.00	0.75	41.25	0.54
2 fills	2	28.00	0.19	24.75	0.07
diaphragm plates	2	28.00	0.38	19.00	0.11
1 plate	1	19.50	0.50	38.63	0.11
2 fills	2	28.00	0.63	62.00	0.62
1 plate	1	22.00	0.75	58.75	0.27
1 plate	1	19.50	0.50	36.25	0.10
Perforated Plate					0.52

ANGLES

Description	Number	Length (ft.)	LB/FT	
3 1/2 x 3 1/2 x 3/8	2	5.29	8.50	0.09
4 x 3 1/2 x 3/8	4	2.33	9.10	0.08
3 1/2 x 3 1/2 x 1/2	1	1.54	11.10	0.02
3 1/2 x 3 1/2 x 1/2	1	1.67	11.10	0.02
8 x 4 x 1/2	2	0.54	19.60	0.02
4 x 3 1/2 x 3/8	1	1.42	9.10	0.01
5 x 3 1/2 x 5/8	1	1.56	16.80	0.03

Total Added Plates =	3.69
Grand Total (with 5% bump-up)=	18.21
Bump-Up Factor =	**1.33**

Made By	DMP	Date	2/2/2012	Job No.	P402110046
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Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 197.13 in^2 Weight = 18.10 kips Total # of handholes= 6

Length = 26.99 ft Handhole (HH) A ft^2= 1

Perf PL steel(ft^3)= 1.24 > kips > **0.61** HH width (in)= 11.5

FROM SHOP DRAWINGS: C PL th= 0.7500 ft^3/HH= 0.0625

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
Diaphragm Plate	2	12.00	0.38	16.38	0.04
Plate	1	28.00	0.38	17.00	0.05
Plate	1	19.00	0.50	40.88	0.11
Plate	2	34.00	0.75	49.50	0.72
Plate	2	32.50	1.00	57.25	1.06
2 u.m. pin plate	2	30.00	0.75	56.75	0.72
1 u.m. fill	1	30.00	0.63	48.25	0.26
2 u.m. fills	2	30.00	0.63	21.50	0.23
2 u.m. fills	2	30.00	0.56	18.00	0.17
2 plates	2	28.00	0.63	82.75	0.82
plate	1	18.00	2.00	78.88	0.81
plate	1	22.00	0.75	61.00	0.29
plate	1	19.00	0.50	38.38	0.10
plate	1	11.00	0.38	26.00	0.03

ANGLES

Description	Number	Length (ft.)	LB/FT	
3 1/2 x 3 1/2 x 3/8	4	1.36	8.50	0.05
4 x 3 1/2 x 3/8	4	2.33	9.10	0.08
8 x 4 x 1/2	1	1.63	19.60	0.03
3 1/2 x 3 1/2 x 1/2	1	1.61	11.10	0.02
3 1/2 x 3 1/2 x 3/8	2	6.79	8.50	0.12
8 x 6 x 5/8	4	6.90	28.50	0.79
Perforated Plate				0.61

Total Added Plates = 7.05 kips

Grand Total (with 5% bump-up)= 26.41

Bump-Up Factor = 1.46

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Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 111.00 in^2 Weight = 7.73 kips Total # of handholes= 6
Length = 20.47 ft Handhole (HH) A ft^2= 1
Perf PL steel(ft^3)= 0.71 > kips > **0.35** HH width (in)= 11.5
FROM SHOP DRAWINGS: C PL th= 0.6250 ft^3/HH= 0.0520833

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 U.M. Plate	1	22.00	0.88	55.88	0.31
1 fill	1	22.00	0.13	33.00	0.03
1 plate	1	16.50	0.50	31.75	0.07
diaphragm plates	2	28.00	0.38	21.00	0.13
2 fills	2	28.00	0.44	38.00	0.26
2 plates	2	30.00	0.38	33.75	0.22
2 u.m. fills	2	14.00	0.63	60.13	0.30
2 u.m. fills	2	14.00	0.63	24.00	0.12
1 fill	1	22.00	0.13	31.25	0.02
1 plate	1	16.50	0.50	30.00	0.07
1 plate	1	23.50	0.63	45.50	0.19

ANGLES

Description	Number	Length (ft.)	LB/FT	
4 x 3 1/2 x 1/2	1	1.21	11.90	0.01
4 x 3 1/2 x 1/2	1	1.29	11.90	0.02
4 x 3 1/2 x 3/8	8	2.33	9.10	0.17
5 x 3 1/2 x 5/8	1	1.27	16.80	0.02
5 x 3 1/2 x 5/8	1	1.19	16.80	0.02

Perforated Plate 0.35

Total Added Plates = 2.30
Grand Total (with 5% bump-up)= 10.53
Bump-Up Factor = 1.36

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Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 202.49 in^2 Weight = 17.24 kips Total # of handholes= 6
Length = 25.02 ft Handhole (HH) A ft^2= 1
Perf PL steel(ft^3)= 1.12 > kips > **0.55** HH width (in)= 11.5
FROM SHOP DRAWINGS: C PL th= 0.7500 ft^3/HH= 0.0625

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 splice plate	1	22.00	1.00	60.03	0.37
1 plate	1	22.00	1.00	60.25	0.38
Diaphragm plate	2	28.00	0.38	19.00	0.11
1 plate	1	19.00	0.50	33.25	0.09
2 splice plate	2	35.00	0.75	43.00	0.64
2 splice plate	2	32.00	1.00	56.50	1.03
1 splice plate	1	22.00	0.75	55.25	0.26
1 plate	1	19.00	0.50	31.00	0.08

Perforated Plate 0.55

ANGLES

Description	Number	Length (ft.)	LB/FT	
4 x 3 1/2 x 3/8	8	2.33	9.10	0.17
3 1/2 x 3 1/2 x 3/8	2	4.38	8.50	0.07
3 1/2 x 3 1/2 x 1/2	1	1.38	11.10	0.02
3 1/2 x 3 1/2 x 1/2	1	1.38	11.10	0.02
5 x 3 1/2 x 1/2	1	1.27	13.60	0.02
5 x 3 1/2 x 1/2	1	1.27	13.60	0.02

Total Added Plates = 3.82
Grand Total (with 5% bump-up)= 22.11
Bump-Up Factor = 1.28

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Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area =	244.49	in^2		Weight =	23.40	kips	Total # of handholes=	6
Length =	28.13	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	1.31	> kips >	**0.64**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.7500			ft^3/HH=	0.0625

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 plate	1	11.00	0.38	26.00	0.03
diaphragm plate	1	18.00	2.00	80.38	0.82
2 pin plates	2	30.00	0.75	46.25	0.59
2 fills	2	30.00	0.63	19.00	0.20
2 fills	2	30.00	0.63	22.50	0.24
2 splice plates	2	33.50	0.75	42.25	0.60
2 splice plates	2	31.50	0.75	61.50	0.82
2 splice plates	2	34.00	0.88	68.50	1.16
1 fill	1	8.00	0.50	6.63	0.01
1 splice plate	1	22.00	0.75	53.25	0.25
Sec. D-D Plate	2	12.00	0.38	16.25	0.04
Sec. C-C Plate	1	28.00	0.38	16.00	0.05
plate	1	20.00	0.50	40.75	0.12
plate	1	20.00	0.50	43.38	0.12
Perforated Plate					0.64

ANGLES

Description	Number	Length (ft.)	LB/FT	
8 x 6 x 5/8	4	7.02	28.50	0.80
3 1/2 x 3 1/2 x 3/8	2	6.48	8.50	0.11
8 x 4 x 1/2	2	0.54	19.60	0.02
3 1/2 x 3 1/2 x 3/8	4	1.35	8.50	0.05
4 x 3 1/2 x 3/8	4	2.33	9.10	0.08

Total Added Plates =	6.75
Grand Total (with 5% bump-up)=	31.66
Bump-Up Factor =	**1.35**

TranSystems

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Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 142.45 in^2 Weight = 10.22 kips Total # of handholes= 6
Length = 21.09 ft Handhole (HH) A ft^2= 1
Perf PL steel(ft^3)= 0.81 > kips > **0.40** HH width (in)= 11.5
FROM SHOP DRAWINGS: C PL th= 0.6875 ft^3/HH= 0.0572917

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 plate	1	22.00	0.88	56.88	0.31
2 splice plate	2	30.00	0.50	35.00	0.30
2 plates	2	30.50	0.75	35.25	0.46
2 fills	2	14.00	0.69	41.94	0.23
2 fills	2	14.00	0.69	54.25	0.30
diaphragm plate	2	28.00	0.38	20.50	0.12
1 plate	1	16.50	0.50	32.81	0.08
1 plate	1	22.00	0.75	41.00	0.19
1 plate	1	16.50	0.50	31.00	0.07

ANGLES

Description	Number	Length (ft.)	LB/FT	
4 x 3 1/2 x 3/8	8	2.33	9.10	0.17
4 x 3 1/2 x 1/2	1	1.29	11.90	0.02
4 x 3 1/2 x 1/2	1	1.29	11.90	0.02
5 x 3 1/2 x 1/2	1	1.27	13.60	0.02
5 x 3 1/2 x 1/2	1	1.27	13.60	0.02

Perforated Plate 0.40

Total Added Plates = 2.69
Grand Total (with 5% bump-up)= 13.56
Bump-Up Factor = 1.33

TranSystems

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Checked By CTG Date 2/6/2012 Sheet No.

Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 64.80 in^2 Weight = 6.32 kips Total # of handholes= 6
Length = 28.66 ft Handhole (HH) A ft^2= 1
Perf PL steel(ft^3)= 0.78 > kips > **0.38** HH width (in)= 11.5
FROM SHOP DRAWINGS: C PL th= 0.4375 ft^3/HH= 0.0364583

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 plate	1	19.50	0.50	35.50	0.10
1 plate	1	19.50	0.50	37.25	0.10
1 plate	1	28.00	0.38	23.00	0.07
1 plate	1	28.00	0.38	20.50	0.06
1 plate	1	23.50	0.50	32.00	0.11
pin plates	2	30.00	0.75	42.75	0.55
2 plates	2	28.00	1.00	36.25	0.58
2 plates	2	14.00	0.75	36.25	0.22
4 fills	4	7.00	0.31	36.25	0.09
2 fills	2	30.00	0.63	13.00	0.14
2 fills	2	30.00	0.63	16.50	0.18

ANGLES

Description	Number	Length (ft.)	LB/FT	
4 x 3 1/2 x 3/8	4	2.33	9.10	0.08
4 3/4 x 3 1/2 x 1/2	2	1.46	13.20	0.04
8 x 4 x 1/2	1	1.50	19.60	0.03
3 1/2 x 3 1/2 x 3/8	2	7.29	8.50	0.12
4 x 3 1/2 x 3/8	8	2.33	9.10	0.17
3 1/2 x 3 1/2 x 3/8	2	3.94	8.50	0.07
Perforated Plate				0.38

Total Added Plates = 3.07
Grand Total (with 5% bump-up)= 9.86
Bump-Up Factor = 1.56

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Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area =	45.67	in^2		Weight =	3.51	kips	Total # of handholes=	6
Length =	22.60	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	0.49	> kips >	**0.24**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.3750			ft^3/HH=	0.03125

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 plate	1	23.50	0.50	39.00	0.13
Diaphragm plate	2	25.00	0.38	23.00	0.12
Diaphragm fills	4	18.00	0.31	8.50	0.05
2 plates	2	20.00	0.75	32.00	0.27
1 fill	1	4.00	0.75	12.13	0.01
1 fill	1	4.00	0.75	36.63	0.03
1 fill	1	4.00	0.75	8.75	0.01
1 fill	1	4.00	0.75	28.75	0.02
1 plate	1	19.50	0.50	28.13	0.08

ANGLES

Description	Number	Length (ft.)	LB/FT	
4 x 3 1/2 x 3/8	8	2.08	9.10	0.15
3 1/2 x 3 1/2 x 1/2	1	2.34	11.10	0.03
4 x 4 x 5/8	1	3.72	15.70	0.06
4 x 4 x 5/8	1	5.76	15.70	0.09
4 x 4 x 5/8	1	3.44	15.70	0.05
4 x 4 x 5/8	1	5.10	15.70	0.08
4 x 3 1/2 x 1/2	1	1.15	11.90	0.01

Perforated Plate 0.24

Total Added Plates =	1.44
Grand Total (with 5% bump-up)=	5.20
Bump-Up Factor =	**1.48**

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Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area =	128.80	in^2		Weight =	10.50	kips	Total # of handholes=	6
Length =	23.95	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	0.88	> kips >	**0.43**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.6250			ft^3/HH=	0.0520833

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 splice plate	1	22.00	0.88	62.25	0.34
1 plate	1	20.50	0.50	35.63	0.10
diaphragm plate	2	24.00	0.38	21.00	0.11
2 fills	2	24.00	0.31	40.50	0.17
2 splice plate	2	25.50	0.50	33.75	0.24
2 splice plate	2	27.50	0.88	65.00	0.89
1 splice plate	1	22.00	0.63	59.50	0.23
1 plate	1	20.50	0.50	34.25	0.10

ANGLES

Description	Number	Length (ft.)	LB/FT	
4 x 3 1/2 x 1/2	1	1.27	11.90	0.02
4 x 3 1/2 x 1/2	1	1.56	11.90	0.02
4 x 3 1/2 x 3/8	8	2.00	9.10	0.15
5 x 3 1/2 x 1/2	1	1.27	13.60	0.02
5 x 3 1/2 x 1/2	1	1.54	13.60	0.02

Perforated Plate 0.43

Total Added Plates =	2.84
Grand Total (with 5% bump-up)=	14.00
Bump-Up Factor =	**1.33**

Made By	DMP	Date	1/27/2012	Job No.	P402110046
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Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area =	105.80	in^2		Weight =	7.22	kips	Total # of handholes=	6
Length =	20.05	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	0.69	> kips >	**0.34**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.6250			ft^3/HH=	0.0520833

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 plate	1	21.00	0.50	37.75	0.11
1 plate	1	22.50	0.38	55.75	0.13
Diaphragm plate	2	24.00	0.38	21.50	0.11
2 plates	2	26.50	0.88	43.25	0.57
2 plates	2	28.00	0.50	67.00	0.53
1 plate	1	22.00	0.63	33.50	0.13
1 plate	1	21.00	0.50	36.00	0.11

ANGLES

Description	Number	Length (ft.)	LB/FT	
4 x 3 1/2 x 1/2	1	1.67	11.90	0.02
4 x 3 1/2 x 1/2	1	1.33	11.90	0.02
4 x 3 1/2 x 3/8	8	2.00	9.10	0.15
5 x 3 1/2 x 1/2	1	1.65	13.60	0.02
5 x 3 1/2 x 1/2	1	1.31	13.60	0.02

Perforated Plate 0.34

Total Added Plates =	2.25
Grand Total (with 5% bump-up)=	9.95
Bump-Up Factor =	**1.38**

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Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 62.77 in^2 Weight = 4.36 kips Total # of handholes= 6
Length = 20.43 ft Handhole (HH) A ft^2= 1
Perf PL steel(ft^3)= 0.57 > kips > **0.28** HH width (in)= 11.5
FROM SHOP DRAWINGS: C PL th= 0.5000 ft^3/HH= 0.0416667

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 Plate	1	23.50	0.50	41.50	0.14
1 Plate	1	17.00	0.50	31.50	0.08
Diaphragm Plate	2	24.00	0.38	23.00	0.12
2 fills	2	10.00	0.44	8.50	0.02
2 fills	2	10.00	0.44	20.13	0.05
2 plates	2	26.00	0.38	33.25	0.18
2 fills	2	10.00	0.44	38.38	0.10
2 fills	2	24.00	0.56	34.94	0.27
1 Plate	1	17.00	0.50	29.50	0.07
1 fill	1	22.00	0.13	20.50	0.02

ANGLES

Description	Number	Length (ft.)	LB/FT	
4 x 3 1/2 x 1/2	1	1.17	11.90	0.01
4 x 3 1/2 x 1/2	1	1.29	11.90	0.02
4 x 3 1/2 x 3/8	8	2.00	9.10	0.15
4 x 3 1/2 x 1/2	1	1.15	11.90	0.01
5 x 3 1/2 x 1/2	1	1.27	13.60	0.02

Perforated Plate 0.28

Total Added Plates = 1.52
Grand Total (with 5% bump-up)= 6.18
Bump-Up Factor = 1.42

Made By	DMP	Date	2/2/2012	Job No.	P402110046
Checked By	CTG	Date	2/6/2012	Sheet No.	

Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area =	42.43	in^2		Weight =	2.66	kips	Total # of handholes=	6
Length =	18.40	ft					Handhole (HH) A ft^2=	1
			Perf PL steel(ft^3)=	0.36	> kips >	**0.18**	HH width (in)=	11.5
FROM SHOP DRAWINGS:			C PL th=	0.3750			ft^3/HH=	0.03125

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
Diaphragm plate	1	25.00	0.38	23.00	0.06
diaphragm fills	2	18.00	0.31	8.50	0.03
Diaphragm plate	1	25.00	0.38	23.00	0.06
diaphragm fills	2	18.00	0.31	8.50	0.03
2 plates	2	18.00	0.50	15.75	0.08
1 bent plate	1	16.50	0.50	30.88	0.07
1 bent plate	1	23.50	0.50	42.75	0.14
1 bent plate	1	16.50	0.50	29.00	0.07

Perforated Plate 0.18

ANGLES

Description	Number	Length (ft.)	LB/FT	
4 x 3 1/2 x 3/8	8	2.08	9.10	0.15
4 x 4 x 1/2	2	0.96	12.80	0.02
4 x 3 1/2 x 1/2	2	1.21	11.90	0.03
				0.00
				0.00
				0.00

GUSSET PLATES

Total Added Plates =	0.92
Grand Total (with 5% bump-up)=	3.76
Bump-Up Factor =	**1.41**

TranSystems

Made By DMP Date 2/2/2012 Job No. P402110046
Checked By CTG Date 2/6/2012 Sheet No.

Calculations For: ***CUY-2-1441*** *Modifed by SFH to remove gusset plates* *3/6/2012*

FROM SECTION PROPERTY CALCS:

Area = 67.80 in^2 Weight = 4.68 kips Total # of handholes= 6
Length = 20.27 ft Handhole (HH) A ft^2= 1
Perf PL steel(ft^3)= 0.49 > kips > **0.24** HH width (in)= 11.5
FROM SHOP DRAWINGS: C PL th= 0.4375 ft^3/HH= 0.0364583

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
Bent plate	1	19.50	0.50	36.50	0.10
2 Plates	2	26.00	0.75	39.25	0.43
2 fills	2	26.00	0.63	15.50	0.14
2 fills	2	26.00	0.63	12.50	0.12
2 plates	2	24.00	1.00	38.25	0.52
2 fills	2	10.00	0.44	38.25	0.09
diaphragm plate	1	24.00	0.38	21.50	0.05
2 fills	2	10.00	0.44	21.75	0.05
2 plates	2	25.50	0.50	34.00	0.25
1 plate	1	24.00	0.38	20.50	0.05
1 bent plate	1	23.50	0.50	31.50	0.10
1 bent plate	1	19.50	0.50	35.50	0.10
Perforated Plate					0.24

ANGLES

Description	Number	Length (ft.)	LB/FT	
3 1/2 x 3 1/2 x 3/8	2	3.29	8.50	0.06
4 x 3 1/2 x 1/2	1	1.50	11.90	0.02
7 x 4 x 1/2	1	1.46	17.19	0.03
4 x 3 1/2 x 3/8	8	2.00	9.10	0.15
3 1/2 x 3 1/2 x 3/8	4	2.00	8.50	0.07
4 3/4 x 3 1/2 x 1/2	1	1.48	13.20	0.02
5 x 3 1/2 x 1/2	1	1.44	13.60	0.02

Total Added Plates = 2.61
Grand Total (with 5% bump-up)= 7.65
Bump-Up Factor = 1.64

TranSystems

Made By DMP Date 1/26/2012 Job No. P402110046
Checked By CTG Date 1/30/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Modified by KMW for perforated plate 2/13/2012
Modifed by SFH to remove gusset plates 3/6/2012

FROM SECTION PROPERTY CALCS:

Area = 49.00 in^2 Weight = 3.34 kips Total # of handholes= 6
Length = 20.01 ft Handhole (HH) A ft^2= 1
Omitted Steel (ft^3)= 0.55 > kips > **0.27** HH width (in)= 11.5
FROM SHOP DRAWINGS: C PL th= 0.5000 ft^3/HH= 0.0416667

PLATES

Description	Number	Length (in.)	Width (in.)	Height (in.)	Weight (kip)
1 Fill Plate	1	23.50	0.13	21.50	0.02
1 Bent Plate	1	23.50	0.50	39.25	0.13
Diaph. Plate	2	25.00	0.38	23.00	0.12
Diaph. Fill Plate	4	18.00	0.38	8.50	0.07
2 Fills	2	18.00	0.38	29.38	0.11
2 Fills	2	25.00	0.38	29.50	0.16
1 Bent Plate	1	17.00	0.50	30.38	0.07
1 Fill	1	26.00	0.25	35.00	0.06
1 Fill	1	23.50	0.38	20.75	0.05
1 Bent Plate	1	23.50	0.38	33.50	0.08
1 Bent Plate	1	17.00	0.50	28.38	0.07

ANGLES

Description	Number	Length (ft.)	LB/FT	
4 x 31/2 x 3/8	8	2.08	9.10	0.15
4 x 31/2 x 1/2	1	1.10	11.90	0.01
4 x 31/2 x 1/2	1	1.29	11.90	0.02
4 x 31/2 x 1/2	1	1.08	11.90	0.01
4 x 31/2 x 1/2	1	1.27	11.90	0.02

Perforated Plate 0.27

Total Added Plates = 1.42
Grand Total (with 5% bump-up)= 5.00
Bump-Up Factor = 1.50

CATWALK DEAD LOADS

* 2.47 kips applied to middle of floorbeams in STAAD.

TranSystems	Made	KMW	Date	2/14/2012	Job No. P402110046
	Checked	ADK	Date	2/14/2012	Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Assumptions/Notes

▪

Span	Element
N/A	Catwalk

	# / ft^2	width (ft)	length (ft)	Total Wt.
Grating=	**7.4**	**2.5**	**20**	**370**

Total Weight

Angles	1329.21
Plates	0.00
I-Sections	656.67
Grating	370

Member Total **2355.87** **lbs**

x 5% misc. **2473.665**

Wt per bay (20ft typ) **=** **2473.665**

Made KMW Date 2/14/2012 Job No. P402110046

Checked ADK Date 2/14/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **WF sections and Tees/Channels**

Assumptions/Notes

Span	**Element**
N/A	Catwalk

	Quantity	lb/ft	Lf / each	Total wt.	Section Subtotals
Member Weights	2	27.5	0.667	36.667	
	2	15.5	20.000	620.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	656.667
Members contributing to **Total Weight**	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	0.000

Section Total **656.667** Pounds

Made	KMW	Date	2/14/2012	Job No.	P402110046
Checked	ADK	Date	2/14/2012	Sheet No.	

Calculations For: ***CUY-2-1441***

Dead Load **Angles**

Span	Element
N/A	Catwalk

Assumptions/Notes

- Type A Truss Used - 000003.pdf Sheets 257-259A

		Angle Dimension (inches)			Feet	Inches				Section Subtotals
	Quantity	Leg 1	Leg 2	Thickness	Length (L)		L(tot./EA)	lb/ft	Total wt.	
Member Weight	2	4	4	0.31	9	9	9.750	8.16	159.120	
	8	2.5	2.5	0.31	6	3	6.250	4.98	249.000	
	2	4	3	0.31	4	0	4.000	7.12	56.960	
	6	2.5	2.5	0.31	3	9	3.750	4.98	112.050	
	2	2.5	2.5	0.31	20	0	20.000	4.98	199.200	
	5	3	2	0.31	2	6	2.500	5.03	62.875	
	1	6	6	0.50	25	0	25.000	19.60	490.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	1329.205
Members contributing to **Total Weight**	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	
	1	0	0	0.00	0	0	0.000	0.00	0.000	0.000

Section Total **1329.205** Pounds

DRAINAGE DEAD LOADS

* Drain pipe weights applied at truss upper chord panel point at drainage locations on each truss line (3 kips).

* Drainage troughs applied at each lower chord panel point with a trough present on each truss line (1.25 kips).

DRAINAGE DEAD LOAD

→ EXAMINE SPAN 3 DRAINAGE TO GET WEIGHT OF TYPICAL DRAINAGE
- REFERENCE 000003.pdf (47/547 for Plan,

STA 27+42.0 (DETAIL-19, 52/547)

Assume scuppers spaced at 4'-0" (per 57/547)

$$\text{Pipe length} = 2(A-B) + 2\left(A-\tfrac{B+C}{2}\right) + 2(A_1-B_1) + 2\left(A_1-\tfrac{B_1+C_1}{2}\right) + 2\left[8^2+(B-C)^2\right]^{1/2} + 2\left[8^2+(B_1-C_1)^2\right]^{1/2} + 2\left[16^2+(C-D)^2\right]^{1/2} + 2\left[25^2+(C_1-D_1)^2\right]^{1/2} + 2(D-E)$$

$$= 2(680.3-676.1) + 2\left(680.3-\tfrac{676.1+675.8}{2}\right) + 2(680.5-677.3) + 2\left(680.5-\tfrac{677.3+676.4}{2}\right) + 2\left[8^2+(676.1-675.8)^2\right]^{1/2} + 2\left[8^2+(677.3-676.4)^2\right]^{1/2} + 2\left[16^2+(675.8-671.7)^2\right]^{1/2} + 2\left[25^2+(676.4-671)^2\right]^{1/2} + 2(671.7-660)$$

$$= 171 \text{ FT}$$

TROUGH WT/FT = $490^{LB/FT} \times \left(\frac{16'' \times 3/8''}{144} + 2 \times \frac{12'' \times 3/8''}{144} + \frac{1}{4'} \times \frac{2'' \times 16'' \times 1/2''}{12^3}\right)$ ← Assume 1 per every 4'

(Roll 002.pdf, pg. 360/553) = $52^{LB/FT}$

∴ TOTAL WEIGHT = $171 \text{ FT} \times 29^{LB/FT} + 52^{LB/FT} \times 64' \times 2$ ← Length from downspout to Pier 2; ↑ # OF TROUGHS

= 11,615 LB

MULTIPLY BY 1.10 TO ACCOUNT FOR CONNECTIONS + ADD'L MATERIALS.

∴ WEIGHT = $1.10 \times 11{,}615 \text{ LB} = \underline{12{,}780 \text{ LB}}$

Calculations for 1/4 US Grid

Drainage Dead Loads –

BREAK COMPONENTS UP FOR MODELING PURPOSES:

→ TOTAL LOAD OF PIPE @ STA. 27+42.0:

= 1.10 × 171′ × 29 LB/FT = 5,455 LB TOTAL
= 2730 LB PER TRUSS
≃ 3 K (ADK)

→ TROUGH LOAD DISTRIBUTED OVER 3 PANEL POINTS

TOTAL TROUGH WT = 1.10 × 52 LB/FT × 64′ × 2
= 7322 LB TOTAL
= 3661 LB PER TRUSS
= 1,220 LB PER PANEL POINT
≃ 1.25 K (ADK)

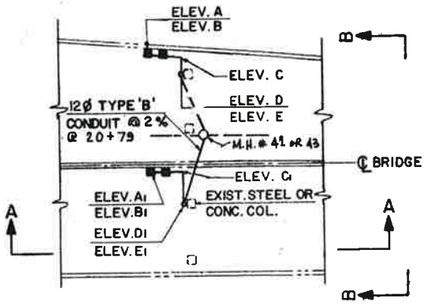
Calculations for 1/4 US Grid

MICROFILMED
JUL 21 1994

FHWA REGION	STATE	PROJECT	
5	OHIO	BHF-73(51)	

52/547

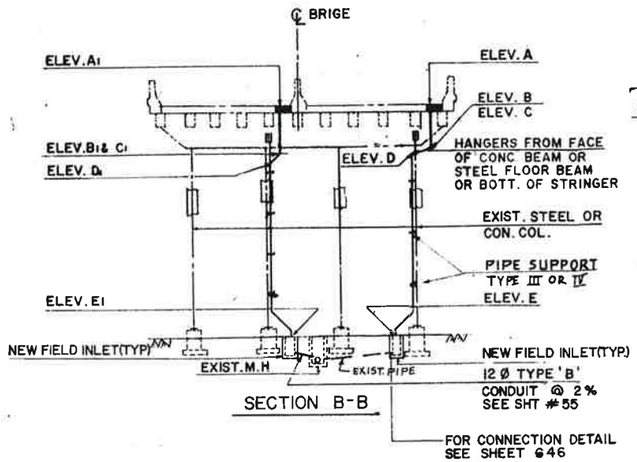
CUYAHOGA COUNTY
CUY-2-14.66



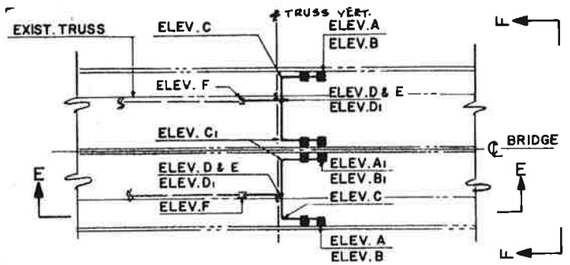
PLAN

STA. 20+79, 20+91, 21+80

DETAIL- 17



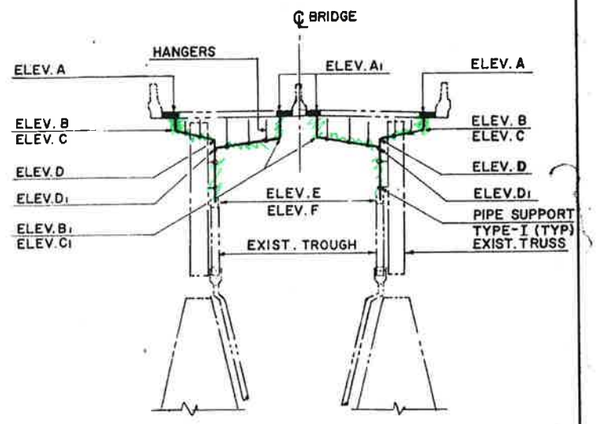
SECTION B-B



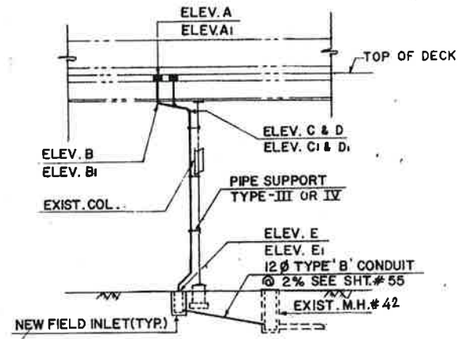
PLAN

STA. 25+45, 27+42

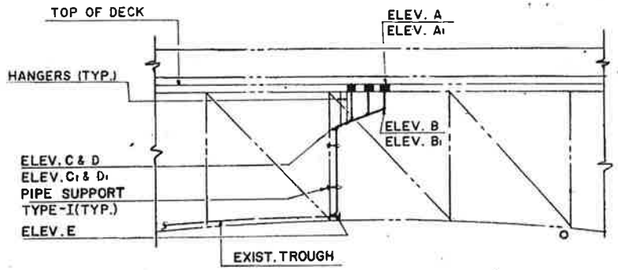
DETAIL- 19



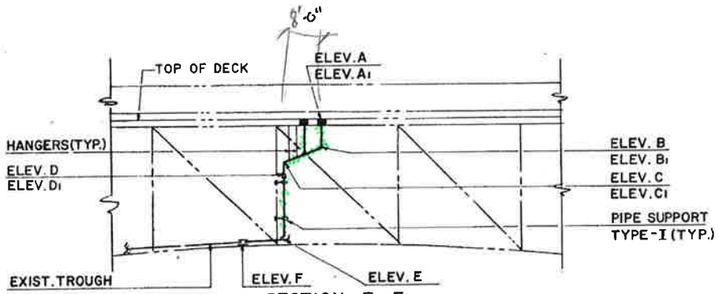
SECTION F-F



SECTION A-A



SECTION C-C



SECTION E-E

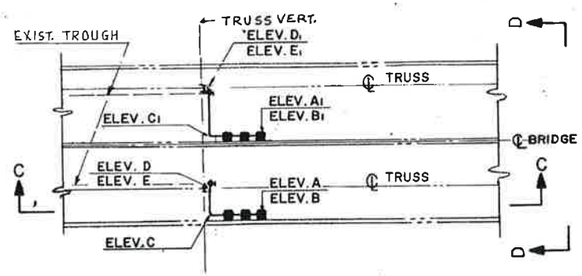
(AB) **NOTE:** *For exact elevations, locations, and schematics see shop drawings.*

OHIO STRUCTURES INC.
P.O. BOX 541 CANFIELD, OHIO 44406
(216) 533-0084

SHEETS E1 TO E39, 1 TO 72

REFERENCES :
References and Legend

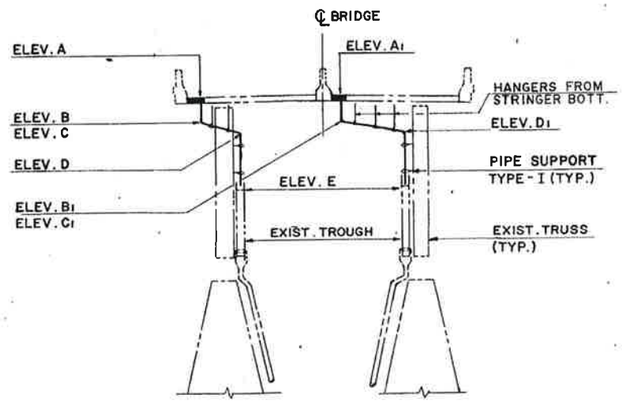
DWG. No.
G 43



PLAN

STA. 30+40, 31+23, 32+44
34+26, 35+83, 37+04, 45+22, 46+85

DETAIL- 18



SECTION D-D

(AB) *As Built*

PAVLO ENGINEERING CO., P.C.
NEW YORK, NEW YORK

CUYAHOGA COUNTY ENGINEER
CLEVELAND OHIO

MAIN AVENUE BRIDGE

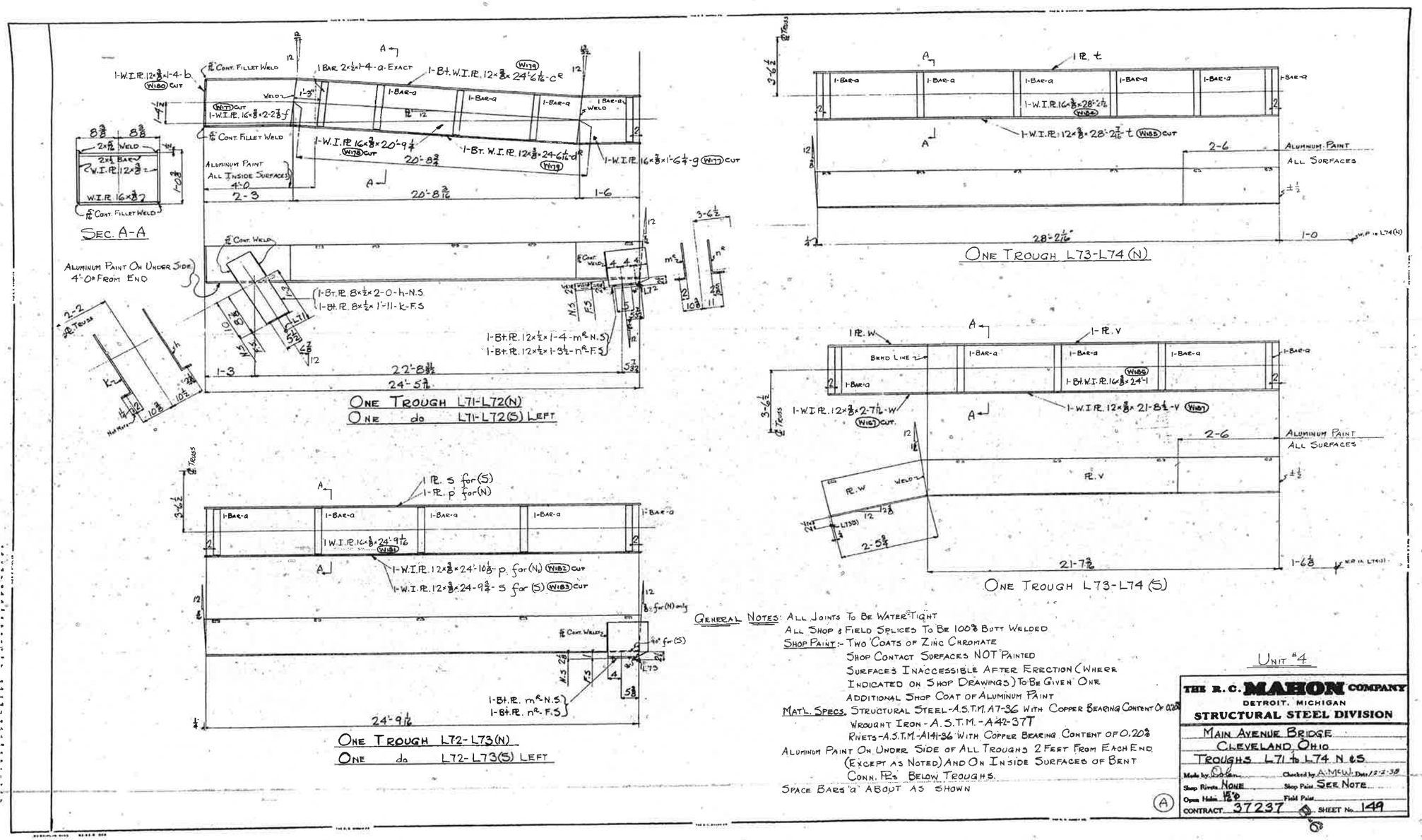
CITY OF CLEVELAND
BRIDGE OVER THE CUYAHOGA RIVER VALLEY

DRAINAGE
TYPICAL PLAN AND SECTIONS-4

BRIDGE NO. 193 REPORT NO. 7119 DATE Dec. 5, 1989

NO. B-136 G49/93

DESIGN	DRAWN	CHECKED	REVISED TO AS BUILT
SNA	SNA	CKP	AS BUILT 2/94



GENERAL NOTES: ALL JOINTS TO BE WATER TIGHT
ALL SHOP & FIELD SPLICES TO BE 100% BUTT WELDED
SHOP PAINT:- TWO COATS OF ZINC CHROMATE
SHOP CONTACT SURFACES NOT PAINTED
SURFACES INACCESSIBLE AFTER ERECTION (WHERE INDICATED ON SHOP DRAWINGS) TO BE GIVEN ONE ADDITIONAL SHOP COAT OF ALUMINUM PAINT
MAT'L. SPECS. STRUCTURAL STEEL - A.S.T.M. A7-36 WITH COPPER BEARING CONTENT OF 0.20%
WROUGHT IRON - A.S.T.M. - A42-37T
RIVETS - A.S.T.M. - A141-36 WITH COPPER BEARING CONTENT OF 0.20%
ALUMINUM PAINT ON UNDER SIDE OF ALL TROUGHS 2 FEET FROM EACH END (EXCEPT AS NOTED) AND ON INSIDE SURFACES OF BENT CONN. PLS BELOW TROUGHS.
SPACE BARS 'a' ABOUT AS SHOWN

UNIT #4

THE R.C. MAHON COMPANY
DETROIT, MICHIGAN
STRUCTURAL STEEL DIVISION

MAIN AVENUE BRIDGE
CLEVELAND, OHIO
TROUGHS L71 to L74 N & S

Made by [illegible] Checked by A. McW. Date 12-2-38
Shop Rivets NONE Shop Paint SEE NOTE
Open Holes 15/16"Ø Field Paint
CONTRACT 37237 SHEET No. 149

(A)

OVERHEAD SIGN LOADS

* Applied at upper chord panel point at sign location (11.51 kips on each truss line). Signs are present in Span 2 and Span 10.

TranSystems	Made	KMW	Date	2/14/2012	Job No. P402110046
	Checked	ADK	Date	2/14/2012	Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Angles**

Span	**Element**
N/A	Overhead Truss

Assumptions/Notes

All information taken from ODOT Traffic eng. Manual see the following: S:\Ref Books Manuals Guides\ODOT (kept up to date)\Traffic\Traffic Engineering Manual Part 02.pdf page 2-166

Pilaster calc	additional width =	1.58
	overall height=	4.44
	length (8'1"+1'7")=	9.67
	Wt. of concrete/cu ft=	113.00

	Qty:	Unit wt.	Lf	Tot. Wt.
Truss End frames=	2	1800		3600
Aluminum Span Truss=	1	1800		1800
Aluminum Signs=	3	400		1200
Reinforced Pilasters=	2	7674.806		15349.61

Subtotal= 21949.61 lbs
Add 5%= 23047.09

Section Total **23047.1** lbs

WINDLOCK LOADS

* Applied at midpoint of horizontal strut at windlock locations (2.0 kips).

Made	KMW	Date	2/14/2012	Job No.	P402110046
Checked	ADK	Date	2/15/2012	Sheet No.	

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Span	Element
N/A	Wind lock

Assumptions/Notes

- Panel 96

Total Weight

Angles	164.69
Plates	1167.30
I-Sections	584.01

Member Weight

Angles	164.6875
Plates	1167.296
I-Sections	584.011

Member Total 1915.99 lbs
x 5% misc. 2011.794

Main Member Tot. 1915.99 lbs

Total Weight for point loading **=** **2011.794**

Made KMW Date 2/14/2012 Job No. P402110046

Checked ADK Date 2/15/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **WF-Sections (and ['s)** Assumptions/Notes

Span	**Element**
N/A	Wind lock

	Quantity	lb/ft	Lf EA	Total wt.	Section Subtotals
Member Weights	1	43	2.146	92.278	
	2	43	1.083	93.138	
	1	65	4.938	320.970	
	1	20.7	3.750	77.625	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	584.011
Members contributing to **Total Weight**	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	0.000

Section Total **584.011** Pounds

Made KMW Date 2/14/2012 Job No. P402110046

Checked ADK Date 2/15/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Assumptions/Notes

Span	**Element**
N/A	Wind lock

Steel= 490 #/ft^3

Bronze= 509 #/ft^3

		Plate Dimension							
		(inches)		Feet	Inches				Section
	Quantity	Height	Thickness	Width			Area	Total wt.	Subtotals
Member Weight	2	6.5	0.38	0	11.25		0.032	15.552	
	2	8	0.38	1	1		0.045	22.118	
	1	21.5	0.50	3	5.75		0.260	127.267	
	1	21.5	0.63	3	5.75		0.325	159.084	
	2	8.5	0.88	0	11.25		0.097	49.293	
	1	8	0.88	0	10		0.041	19.850	
	1	27	0.50	3	9		0.352	172.266	
	1	10	0.50	5	0		0.174	85.069	
	2	2.5	1.00	2	3.5		0.080	38.990	
	2	14	0.50	3	9		0.365	178.646	
	1	10	0.63	2	3.5		0.099	48.738	
	1	28	0.50	3	9		0.365	178.646	
	1	9	0.63	3	9		0.146	71.777	1167.296
Members contributing to **Total Weight**	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	0.000

Section Total **1167.296** Pounds

Made KMW Date 2/14/2012 Job No. P402110046

Checked ADK Date 2/15/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Angles**

Span	Element
N/A	Wind lock

Assumptions/Notes

- Span 8 @ Panel 96 used
- Point Load, therefore bump up page modified

		Angle Dimension (inches)			Feet	Inches				Section
	Quantity	Leg 1	Leg 2	Thickness	Length (L)		L(tot./EA)	lb/ft	Total wt.	Subtotals
Member Weight	4	4	3.5	0.50	0	11.25	0.938	11.9	44.625	
	2	5	3.5	0.50	2	4.25	2.354	13.6	64.033	
	2	4	3.5	0.50	2	4.25	2.354	11.9	56.029	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	164.688
Members contributing to **Total Weight**	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	0.000

Section Total **164.688** Pounds

FLOORBEAM BUMP-UPS

New Floorbeam at Expansion Joints	1.975
New Floorbeam (Typ.)	1.597
Original Floorbeam (Typ.)	1.596
New Bracket (Typ.)	1.551
New Bracket at Expansion Joint	1.826
Original Bracket (Typ.)	1.526

Made KMW Date 2/15/2012 Job No. P402110046
Checked ADK Date 2/15/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Span	Element
N/A	New Floorbeam @ Exp jt

Assumptions/Notes

- Floorbeam 1H and 3F
- Tie plates same as Regular new FB

Total Weight

Angles	820.52
Plates	17690.87
I-Sections	0.00

Member Weight

Angles	0
Plates	9840.355
I-Sections	0

Member Total 18511.39 lbs **Main Member Tot. 9840.355 lbs**
x 5% misc. 19436.96

$$\textbf{Bump-Up Factor} = \frac{19436.96}{9840.355} = \boxed{1.975}$$

Made KMW Date 2/15/2012 Job No. P402110046
Checked ADK Date 2/15/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **WF-Sections, Channels, WT's**

Assumptions/Notes

Span	Element
N/A	New Floorbeam @ Exp jt

	Quantity	lb/ft	Total Lf	Total wt.	Section Subtotals
Member Weights	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	0.000
Members contributing to **Total Weight**	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	0.000

Section Total **0.000** Pounds

Made KMW Date 2/15/2012 Job No. P402110046
Checked ADK Date 2/15/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Span	Element
N/A	New Floorbeam @ Exp jt

Assumptions/Notes

Steel= 490 #/Cuft
bronze= 509 #/Cuft

		Plate Dimension (inches)		Feet	Inches				
	Quantity	Height	Thickness	Width			Area	Total wt.	Section Subtotals
Member Weight	2	13	1.50	47	9		12.932	6336.823	
	1	57.5	0.38	47	9		7.150	3503.532	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	9840.355
Members contributing to **Total Weight**	7	6	0.50	4	9.5		0.699	342.405	
	2	13	2.00	18	0		6.500	3185.000	
	8	12	0.75	3	4		1.667	816.667	
	8	26	0.50	3	6.25		2.543	1245.984	
	8	8	0.63	1	4.75		0.388	197.355	
	8	12	0.50	0	42.2		1.172	574.389	
	8	12	0.50	0	55.5		1.542	755.417	
	8	21	0.50	1	6.25		0.887	434.705	
	2	13	1.00	3	4.5		0.609	298.594	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	7850.514

Section Total **17690.87** Pounds

Made KMW Date 2/15/2012 Job No. P402110046
Checked ADK Date 2/15/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Angles**

Span	Element
N/A	**New Floorbeam @ Exp jt**

Assumptions/Notes

- Floorbeam 1H and 3F
- Tie plates same as Regular new FB

		Angle Dimension (inches)			Feet	Inches				Section
	Quantity	Leg 1	Leg 2	Thickness	Length (L)		L(tot./EA)	lb/ft	Total wt.	Subtotals
Member Weight	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	0.000
Members contributing to **Total Weight**	4	8	7.5	0.75	4	8.875	4.740	39.2	743.167	
	4	4	3.5	0.38	2	1.5	2.125	9.1	77.350	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	820.517

Section Total **820.517** Pounds

Made KMW Date 2/14/2012 Job No. P402110046
Checked ADK Date 2/15/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Span	Element
N/A	Typical Floorbeam

Assumptions/Notes

Total Weight

Angles	820.52
Plates	14150.40
I-Sections	0.00

Member Weight

Angles	0
Plates	9840.355
I-Sections	0

Member Total 14970.91 lbs **Main Member Tot. 9840.355 lbs**
x 5% misc. 15719.46

$$\textbf{Bump-Up Factor} = \frac{15719.46}{9840.355} = \boxed{1.597}$$

Made KMW Date 2/14/2012 Job No. P402110046
Checked ADK Date 2/15/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **WF-Sections, Channels, WT's**

Span	Element
N/A	Typical Floorbeam

Assumptions/Notes

	Quantity	lb/ft	Total Lf	Total wt.	Section Subtotals
Member Weights	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	0.000
Members contributing to **Total Weight**	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	0.000

Section Total **0.000** Pounds

Made KMW Date 2/14/2012 Job No. P402110046
Checked ADK Date 2/15/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Span	Element
N/A	Typical Floorbeam

Assumptions/Notes

Steel= 490 #/Cuft
bronze= 509 #/Cuft

	Quantity	Plate Dimension (inches) Height	Thickness	Feet Width	Inches Width		Area	Total wt.	Section Subtotals
Member Weight	2	13	1.50	47	9		12.932	6336.823	
	1	57.5	0.38	47	9		7.150	3503.532	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	9840.355
Members contributing to **Total Weight**	23	6	0.50	4	9.5		2.296	1125.043	
	2	13	2.00	18	0		6.500	3185.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	4310.043

Section Total **14150.40** Pounds

Made KMW Date 2/14/2012 Job No. P402110046
Checked ADK Date 2/15/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Angles**

Span	Element
N/A	**Typical Floorbeam**

Assumptions/Notes

- Floorbeam 1H and 3F
- Tie plates same as Regular new FB

		Angle Dimension (inches)			Feet	Inches				Section
	Quantity	Leg 1	Leg 2	Thickness	Length (L)		L(tot./EA)	lb/ft	Total wt.	Subtotals
Member Weight	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	0.000
Members contributing to **Total Weight**	4	8	7.5	0.75	4	8.875	4.740	39.2	743.167	
	4	4	3.5	0.38	2	1.5	2.125	9.1	77.350	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	820.517

Section Total **820.517** Pounds

Made KMW Date 2/15/2012 Job No. P402110046
Checked ADK Date 2/15/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Span	Element
N/A	Original FB typ

Assumptions/Notes

▪

Total Weight

Angles	8274.30
Plates	5623.69
I-Sections	0.00

Member Weight

Angles	5493.6
Plates	3651.074
I-Sections	0

Member Total 13897.99 lbs **Main Member Tot. 9144.674 lbs**
x 5% misc. 14592.89

Bump-Up Factor = $\frac{14592.89}{9144.674}$ = **1.596**

Made KMW Date 2/15/2012 Job No. P402110046
Checked ADK Date 2/15/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **WF-Sections, Channels, WT's**

Assumptions/Notes

Span	Element
N/A	Original FB typ

	Quantity	lb/ft	Total Lf	Total wt.	Section Subtotals
Member Weights	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	0.000
Members contributing to **Total Weight**	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	0.000

Section Total **0.000** Pounds

Made KMW Date 2/15/2012 Job No. P402110046
Checked ADK Date 2/15/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Span	Element
N/A	Original FB typ

Assumptions/Notes

Steel= 490 #/Lf

		Plate Dimension							
		(inches)		Feet	Inches				Section
	Quantity	Height	Thickness	Width			Area	Total wt.	Subtotals
Member Weight	1	60	0.38	47	8.25		7.451	3651.074	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	3651.074
Members contributing to **Total Weight**	14	3.5	0.75	4	0.5		1.031	505.419	
	16	3.5	0.75	2	7		0.753	369.201	
	4	11	0.88	1	0.25		0.273	133.736	
	2	12	0.88	3	0		0.438	214.375	
	16	10.25	0.75	1	9.5		1.530	749.887	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	1972.619

Section Total **5623.693** Pounds

Made KMW Date 2/15/2012 Job No. P402110046
Checked ADK Date 2/15/2012 Sheet No.
Calculations For: ***CUY-2-1441***

Dead Load **Angles**

Span	**Element**
N/A	Original FB typ

Assumptions/Notes
- U47 used

		Angle Dimension								
		(inches)			Feet	Inches				Section
	Quantity	Leg 1	Leg 2	Thickness	Length (L)		L(tot./EA)	lb/ft	Total wt.	Subtotals
Member Weight	4	6	6.0	0.75	47	8.25	47.688	28.8	5493.600	
	1	0	0.0	0.00	0	0	0.000	0.0	0.000	
	1	0	0.0	0.00	0	0	0.000	0.0	0.000	
	1	0	0.0	0.00	0	0	0.000	0.0	0.000	
	1	0	0.0	0.00	0	0	0.000	0.0	0.000	
	1	0	0.0	0.00	0	0	0.000	0.0	0.000	
	1	0	0.0	0.00	0	0	0.000	0.0	0.000	
	1	0	0.0	0.00	0	0	0.000	0.0	0.000	
	1	0	0.0	0.00	0	0	0.000	0.0	0.000	
	1	0	0.0	0.00	0	0	0.000	0.0	0.000	
	1	0	0.0	0.00	0	0	0.000	0.0	0.000	5493.600
Members contributing to **Total Weight**	12	5	3.5	0.50	3	7.75	3.646	13.6	595.000	
	14	4	3.5	0.38	4	10	4.833	9.1	615.767	
	16	8	6.0	0.75	0	9	0.750	34.0	408.000	
	4	8	6.0	0.63	4	10.5	4.875	28.6	557.700	
	4	5	3.5	0.38	1	0.5	1.042	10.4	43.333	
	24	4	3.5	0.38	1	0.5	1.042	9.1	227.500	
	4	5	3.5	0.38	2	1.5	2.125	10.4	88.400	
	4	5	3.5	0.63	3	7.75	3.646	16.8	245.000	
	1	0	0.0	0.00	0	0	0.000	0.0	0.000	
	1	0	0.0	0.00	0	0	0.000	0.0	0.000	
	1	0	0.0	0.00	0	0	0.000	0.0	0.000	
	1	0	0.0	0.00	0	0	0.000	0.0	0.000	
	1	0	0.0	0.00	0	0	0.000	0.0	0.000	2780.700

Section Total **8274.300** Pounds

Made KMW Date 2/16/2012 Job No. P402110046
Checked ADK Date 2/18/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Span	**Element**
n/a	New Bracket typ.

Assumptions/Notes

▪

Total Weight

Angles	199.65
Plates	1630.88
I-Sections	0.00

Member Weight

Angles	0
Plates	1239.415
I-Sections	0

Member Total 1830.53 lbs
x 5% misc. 1922.059

Main Member Tot. 1239.415 lbs

Bump-Up Factor = $\frac{1922.06}{1239.415}$ = **1.551**

Made KMW Date 2/16/2012 Job No. P402110046
Checked ADK Date 2/18/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **WF-Sections, Channels, WT's**

Span	Element
n/a	New Bracket typ.

Assumptions/Notes

	Quantity	lb/ft	Total Lf	Total wt.	Section Subtotals
Member Weights	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	0.000
Members contributing to **Total Weight**	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	0.000

Section Total **0.000** Pounds

Made KMW Date 2/16/2012 Job No. P402110046
Checked ADK Date 2/18/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Span	Element
n/a	New Bracket typ.

Assumptions/Notes

Steel= 490 #/Lf

		Plate Dimension (inches)		Feet	Inches				
	Quantity	Height	Thickness	Width			Area	Total wt.	Section Subtotals
Member Weight	1	118.813	0.38	0	43.5		1.122	549.587	
	1	118.813	0.75	0	13		0.670	328.489	
	1	130.6943	0.75	0	13		0.737	361.338	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	1239.415
Members contributing to **Total Weight**	2	6	0.50	0	54.45		0.189	92.641	
	2	6	0.50	0	48.4		0.168	82.347	
	1	6	0.50	0	42.35		0.074	36.027	
	1	13	0.88	3	0		0.237	116.120	
	2	3.75	0.50	0	60.5		0.131	64.334	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	391.468

Section Total **1630.883** Pounds

Made KMW Date 2/16/2012 Job No. P402110046
Checked ADK Date 2/18/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Angles**

Span: n/a

Element: New Bracket typ.

Assumptions/Notes
- 10L South used

		Angle Dimension								
		(inches)			Feet	Inches				Section
	Quantity	Leg 1	Leg 2	Thickness	Length (L)		L(tot./EA)	lb/ft	Total wt.	Subtotals
Member Weight	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	0.000
Members contributing to **Total Weight**	2	6	4	0.63	0	60.5	5.042	19.8	199.650	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	199.650

Section Total **199.650** Pounds

Made KMW Date 2/16/2012 Job No. P402110046
Checked ADK Date 2/18/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Span	**Element**
n/a	New Bracket Exp jt

Assumptions/Notes

▪

Total Weight

Angles	372.28
Plates	2299.96
I-Sections	0.00

Member Weight

Angles	0
Plates	1536.908
I-Sections	0

Member Total 2672.24 lbs **Main Member Tot. 1536.908 lbs**

x 5% misc. 2805.856

Bump-Up Factor = $\frac{2805.86}{1536.908}$ = **1.826**

Made KMW Date 2/16/2012 Job No. P402110046
Checked ADK Date 2/18/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **WF-Sections, Channels, WT's**

Span	Element
n/a	New Bracket Exp jt

Assumptions/Notes

	Quantity	lb/ft	Total Lf	Total wt.	Section Subtotals
Member Weights	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	0.000
Members contributing to **Total Weight**	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	0.000

Section Total **0.000** Pounds

Made KMW Date 2/16/2012 Job No. P402110046
Checked ADK Date 2/18/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Span	Element
n/a	New Bracket Exp jt

Assumptions/Notes

Steel= 490 #/Lf

		Plate Dimension (inches)		Feet	Inches				
	Quantity	Height	Thickness	Width			Area	Total wt.	Section Subtotals
Member Weight	1	145.063	0.38	0	45.034		1.418	694.674	
	1	145.063	0.75	1	1		0.818	401.064	
	1	159.5693	0.75	1	1		0.900	441.170	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	1536.908
Members contributing to **Total Weight**	2	60.5	0.50	0	6		0.210	102.934	
	2	30.025	0.50	0	6		0.104	51.084	
	2	60.5	0.50	0	3.75		0.131	64.334	
	1	13	0.88	3	0		0.237	116.120	
	4	6	0.75	0	6		0.063	30.625	
	2	13	0.75	1	6		0.203	99.531	
	1	11.75	0.50	0	43.542		0.148	72.539	
	1	11.75	0.50	0	20.2835		0.069	33.791	
	1	12	0.50	0	44.8		0.156	76.222	
	1	12	0.50	0	35.84		0.124	60.978	
	2	4	0.50	0	48.4		0.112	54.898	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	763.056

Section Total **2299.964** Pounds

Made KMW Date 2/16/2012 Job No. P402110046
Checked ADK Date 2/18/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Angles**

Span	**Element**
n/a	New Bracket Exp jt

Assumptions/Notes

- 5G North used

		Angle Dimension (inches)			Feet	Inches				Section
	Quantity	Leg 1	Leg 2	Thickness	Length (L)		L(tot./EA)	lb/ft	Total wt.	Subtotals
Member Weight	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	0.000
Members contributing to **Total Weight**	2	6	4	0.63	0	60.5	5.042	19.8	199.650	
	2	6	4	0.38	0	84.9	7.075	12.2	172.630	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	372.280

Section Total **372.280** Pounds

Made KMW Date 2/17/2012 Job No. P402110046
Checked ADK Date 2/18/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Span	**Element**
n/a	Original Bracket

Assumptions/Notes

▪

Total Weight

Angles	1976.54
Plates	963.96
I-Sections	0.00

Member Weight

Angles	1278.281
Plates	745.1533
I-Sections	0

Member Total 2940.50 lbs **Main Member Tot. 2023.435 lbs**

x 5% misc. 3087.521

Bump-Up Factor = $\frac{3087.52}{2023.435}$ = **1.526**

Made KMW Date 2/17/2012 Job No. P402110046
Checked ADK Date 2/18/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **WF-Sections, Channels, WT's**

Span	**Element**
n/a	Original Bracket

Assumptions/Notes

	Quantity	lb/ft	Total Lf	Total wt.	Section Subtotals
Member Weights	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	0.000
Members contributing to **Total Weight**	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	0.000

Section Total **0.000** Pounds

Made KMW Date 2/17/2012 Job No. P402110046
Checked ADK Date 2/18/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Span	**Element**
n/a	Original Bracket

Assumptions/Notes

Steel= 490 #/Lf

		Plate Dimension							
		(inches)		Feet	Inches				Section
	Quantity	Height	Thickness	Width			Area	Total wt.	Subtotals
Member Weight	1	45.028	0.38	12	11.625		1.521	745.153	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	745.153
Members contributing to **Total Weight**	4	3.5	0.50	1	6		0.073	35.729	
	2	3	0.50	1	6.75		0.033	15.951	
	2	6.25	0.38	1	2.375		0.039	19.107	
	2	6.5	0.50	4	0		0.181	88.472	
	4	3.5	0.50	2	6		0.122	59.549	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	218.808

Section Total **963.961** Pounds

Made KMW Date 2/17/2012 Job No. P402110046
Checked ADK Date 2/18/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Angles**

Span n/a

Element Original Bracket

Assumptions/Notes

- Using 47N

		Angle Dimension								
		(inches)			Feet	Inches				Section
	Quantity	Leg 1	Leg 2	Thickness	Length (L)		L(tot./EA)	lb/ft	Total wt.	Subtotals
Member Weight	2	6	6	0.50	12	11.625	12.969	24.3	630.281	
	2	6	6	0.50	13	4	13.333	24.3	648.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	1278.281
Members contributing to **Total Weight**	2	7	4	0.63	4	10.75	4.896	22.1	216.396	
	8	5	3.5	0.38	1	0.5	1.042	10.4	86.667	
	2	5	3.5	0.50	2	1.5	2.125	12.8	54.400	
	2	5	3.5	0.50	3	1.25	3.104	12.8	79.467	
	2	4	3.5	0.38	2	10	2.833	9.1	51.567	
	2	4	3.5	0.38	3	9.5	3.792	9.1	69.008	
	2	4	3.5	0.38	4	2.625	4.219	9.1	76.781	
	2	8	6.5	0.50	1	2.375	1.198	26.7	63.969	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	698.254

Section Total **1976.535** Pounds

SWAY BRACING LOADS

Made	KMW	Date	2/17/2012	Job No.	P402110046
Checked	ADK	Date	2/17/2012	Sheet No.	

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Assumptions/Notes

Span	Element
n/a	Sway Bracing (Single Panel)

▪

Total Weight

Angles	295.43
Plates	1266.40
I-Sections	2021.00

Member Weight

Angles	0
Plates	0
I-Sections	2021

Member Total 3582.83 lbs **Main Member Tot. 2021 lbs**

x 5% misc. 3761.968

Bump-Up Factor = $\frac{3761.97}{2021}$ = **1.861**

Made	KMW	Date	2/17/2012	Job No.	P402110046
Checked	ADK	Date	2/17/2012	Sheet No.	

Calculations For: ***CUY-2-1441***

Dead Load **WF-Sections, Channels, WT's**

Span	Element
n/a	Sway Bracing (Single Panel)

Assumptions/Notes

used 50' c-c truss, minus 3' for length of struts

	Quantity	lb/ft	Total Lf	Total wt.	Section Subtotals
Member Weights	1	43	47.000	2021.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	2021.000
Members contributing to **Total Weight**	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	
	1	0	0.000	0.000	0.000

Section Total **2021.000** Pounds

Made KMW	Date 2/17/2012	Job No. P402110046
Checked ADK	Date 2/17/2012	Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Plates**

Assumptions/Notes

Span	Element
n/a	Sway Bracing (Single Panel)

Steel= 490 #/Lf

		Plate Dimension (inches) Height	Thickness	Feet Width	Inches Width		Area	Total wt.	Section Subtotals
Member Weight	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	0.000
Members contributing to **Total Weight**	4	24	0.50	4	0		1.333	653.333	
	2	30	0.50	4	0		0.833	408.333	
	4	19	0.50	0	19		0.418	204.734	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	
	1	0	0.00	0	0		0.000	0.000	1266.400

Section Total **1266.400** Pounds

Made KMW	Date 2/17/2012	Job No. P402110046
Checked ADK	Date 2/17/2012	Sheet No.

Calculations For: ***CUY-2-1441***

Dead Load **Angles**

Span	Element
n/a	Sway Bracing (Single Panel)

Assumptions/Notes

- Used a mix of plates to be conservative.

		Angle Dimension (inches)			Feet	Inches				Section Subtotals
	Quantity	Leg 1	Leg 2	Thickness	Length (L)		L(tot./EA)	lb/ft	Total wt.	
Member Weight	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	0.000
Members contributing to **Total Weight**	4	8	6	0.50	2	0	2.000	23.2	185.600	
	4	4	4	0.38	2	0	2.000	9.7	77.760	
	2	5	3.5	0.38	1	6.5	1.542	10.4	32.067	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	
	1	0	0	0.00	0	0	0.000	0.0	0.000	295.427

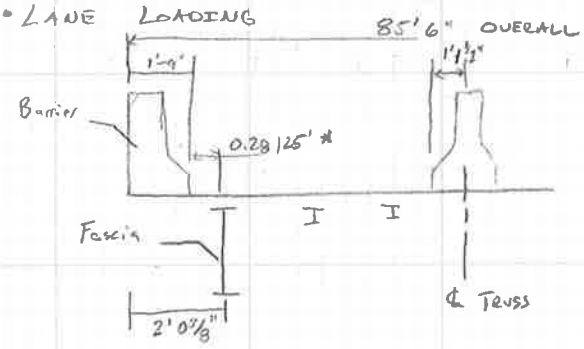
Section Total **295.427** Pounds

LIVE LOAD CALCULATIONS

LANE CONFIGURATION

LIVE LOADING FOR MAIN TRUSS

• LANE LOADING



*For PP 0-111, For PP 112-126 varies

Distace between edge of barrier a centrlme of fascia

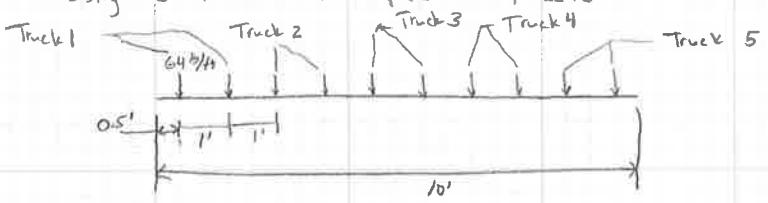
$2'0\frac{3}{8}" - 1'9" = 3.\frac{3}{8}" = 0.28125'$

Distance from Center line of bridge to edge of barrier

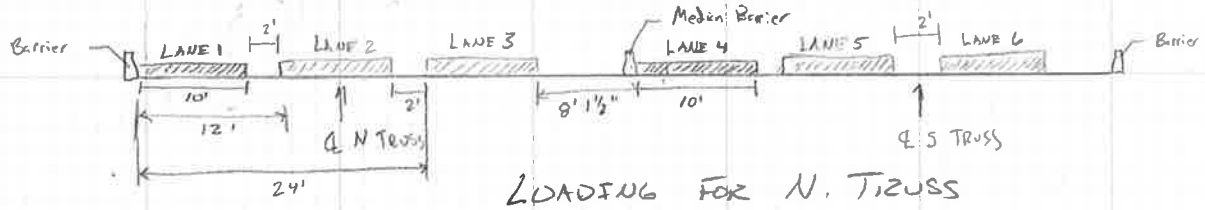
$= 1'1\frac{1}{2}" = 1.125'$

APPLYING LANE LOADING IN STAAD

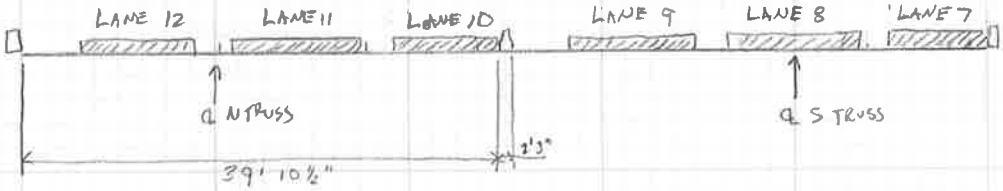
- Using Load Generations of a moving load to create distributed load
  - ↳ Using a "truck" consisting of 1 axle with wheels spaced 1' apart with a 64 lb/ft load
  - ↳ Using 5 'trucks' to represent 1 Lane



↳ 12 Lane Combinations



LOADING FOR N. TRUSS



LOADING FOR SOUTH TRUSS

Calculations for 1/8 US Grid

LANE LOADING SORTING DATA

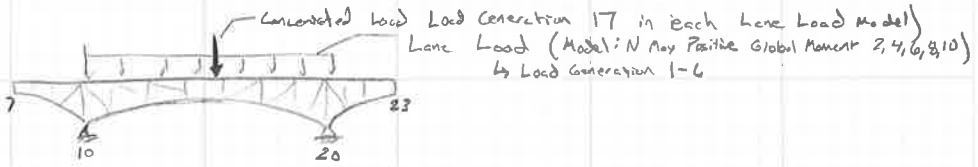
- Applied uniform Lane Load of 640 lb/ft per assigned lane in models consisting of one lane with distributed load and concentrated 26,000 lbs shear load
  - The shear concentrated load was to determine the max axial force in the truss vertical and diagonal members
  - For the upper and lower chords superposition was used to scale down the 26,000 lb shear load to a concentrated load of ~ 18,000 lbs

  - North and South Upper and Lower Chord STAAD IDs
    1 - 126 South Truss Lower Chord
    127 - 252 South Truss Upper Chord
    253 - 378 North Truss Lower Chord
    379 - 504 North Truss Upper Chord
  - Varying Lane Loads w/ concentrated Moment Load for max positive/negative moment regions
    - Suspended Spans use superposition from Lane Loading w/ sheer concentrated load
    - Spans 2, 4, 6, 8, and 10
      * Max Positive Moment Effects
        - Apply Distributed Lane Load over individual span w/ concentrated Moment Point Load on FB at mid span
      * Max Negative Moment Effects
        - Apply Distributed Lane Load over Suspended span, cantilever adjectent to suspended span and from pier to pier of continious span
        - Concentrated Load on FB at midspan of continous span and midpoint of Suspended span
        - see next page for detail drawing / locations for each span

Calculations for 1/8 US Grid

MAX GLOBAL POSITIVE MOMENT

SPAN 2 (PP 7-23)



SPAN 4 (PP 28-42)

Concentrated Load: Each Lane Load Model, Load Generation 37

Lane Load: Model - N Max Positive Global Moments, Load Generations 7-12

SPAN 6 (PP 48-65)

Concentrated Load: Each Lane Load Model, Load Generation 58

Lane Load: Model - N Max Positive Global Moments, Load Generations, 13-18

SPAN 8 (PP 71-96)

Concentrated Load: Each Lane Load Model, Load Generation 84

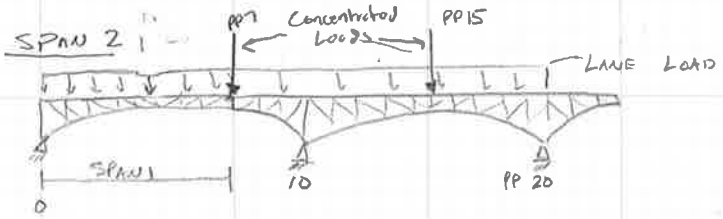
Lane Load: Model - N Max Positive Global Moments, Load Generation 19-24

SPAN 10 (PP 104-126)

Concentrated Load: Each Lane Load Model, Load Generation 120

Lane Load: Model N Max Positive Global Moments, Load Generation 25-30

MAX GLOBAL NEGATIVE MOMENT



Maximum Negative Moment @ 10 -

For Maximum Negative Moment @ PP 20

↳ Lane Load From PP 10 - 23

↳ Concentrated Loads @ PP 15 and PP 25

SPAN 4

For Maximum Negative Moment @ 30

↳ Lane Load From 23 - 40

↳ Concentrated Loads @ PP 25 and PP 35

For Maximum Negative Moment @ 40

↳ Lane Load From 30 to 48

↳ Concentrated Loads @ 35 and 45

Calculations for 1/8 US Grid

SPAN 6

For Maximum Negative Moment @ 50

↳ Lane Load From PP 42 - 62

↳ Concentrated Loads @ PP 45 and 56

For Maximum Negative Moment @ PP 62

↳ Lane Load From PP 50 - 71

↳ Concentrated Loads @ PP 56 and 68

SPAN 8

For Maximum Negative Moment @ 74

↳ Lane Load From 65 to 90

↳ Concentrated Loads @ PP 68 and 82

For Maximum Negative Moment @ 90

↳ Lane Load From PP 74 - 104

↳ Concentrated Loads @ 82 and 100

SPAN 10

For Maximum Negative Moment @ 110

↳ Lane Load From PP 96 - 126

↳ Concentrated Loads @ PP 100 and 118

OUTPUT LOAD GENERATIONS

- Model (1)

Load Generation (LG) 1 - Span 2 Lane 1 (12) Lane Load (LL) ↓ North Truss ← South Truss

LG 2 - Span 4 Lane 1 (12) LL

LG 3 - Span 6 Lane 1 (12) LL

LG 4 - Span 8 Lane 1 (12) LL

LG 5 - Span 10 Lane 1 (12) LL

LG 6 - Span 2 Lane 2 (11) LL

LG 7 - Span 4 Lane 2 (11) LL

LG 8 - Span 6 Lane 2 (11) LL

LG 9 - Span 8 Lane 2 (11) LL

LG 10 - Span 10 Lane 2 (11) LL

LG 11 - Span 2 Lane 3 (10) LL

LG 12 - Span 4 Lane 3 (10) LL

LG 13 - Span 6 Lane 3 (10) LL

LG 14 - Span 8 Lane 3 (10) LL

LG 15 - Span 10 Lane 3 (10) LL

LG 16 - Span 2 Lane 4 (9) LL

LG 17 - Span 4 Lane 4 (9) LL

LG 18 - Span 6 Lane 4 (9) LL

LG 19 - Span 8 Lane 4 (9) LL

LG 20 - Span 10 Lane 4 (9) LL

LG 21 - Span 2 Lane 5 (8) LL

LG 22 - Span 4 Lane 5 (8) LL

LG 23 - Span 6 Lane 5 (8) LL

LG 24 - Span 8 Lane 5 (8) LL

LG 25 - Span 10 Lane 5 (8) LL

LG 26 - Span 2 Lane 6 (7) LL

LG 27 - Span 4 Lane 6 (7) LL

LG 28 - Span 6 Lane 6 (7) LL

LG 29 - Span 8 Lane 6 (7) LL

LG 30 - Span 10 Lane 6 (7) LL

LG 31 - 35 Concentrated Load - Lane 1 (12)

LG 36-40 CL Lane 2 (11)

LG 41 - 45 CL Lane 3 (10)

Lg 46-50 CL Lane 4 (9)
Lg 51-55 CL Lane 5 (8)
- Model (2)

Lg 56-60 CL Lane 6 (7)

Lg	Span	Lane
1	2	1 (12) LL
2	4	1 (12)
3	6	1 (12)
4	8	1 (12)
5	2	2 (11)
6	4	2 (11)
7	6	2 (11)
8	8	2 (11)
9	2	3 (10)
10	4	3 (10)
11	6	3 (10)
12	8	3 (10)
13	2	4 (9)
14	4	4 (9)
15	6	4 (9)
16	8	4 (9) LL

Lg	Span	Lane
17	2	5 (8) LL
18	4	5 (8)
19	6	5 (8)
20	8	5 (8)
21	2	6 (7)
22	4	6 (7)
23	6	6 (7)
24	8	6 (7) LL
25-28	2,4,6,8	1 (12) CL
29-32	2,4,6,8	2 (11) CL
33-36	2,4,6,8	3 (10) CL
37-40	2,4,6,8	4 (9) CL
41-44	2,4,6,8	5 (8) CL
45-48	2,4,6,8	6c (7) CL

Calculations for 1/8 US Grid

SOUTH LANE MODELS

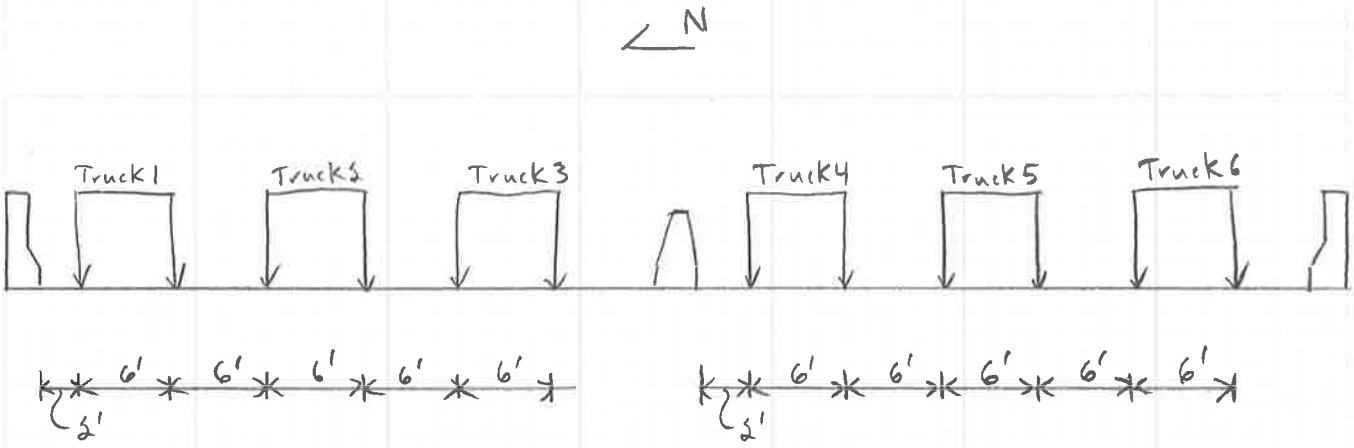
- Distributed Load for 6 lanes compiled in 5 Lane Load Model
  - Lane 12 Load Generation 1
  - Lane 11 Load Generation 2
  - Lane 10 Load Generation 3
  - Lane 9 Load Generation 4
  - Lane 8 Load Generation 5
  - Lane 7 Load Generation 6
- Concentrated Loads (26 k load applied) (5 Lane Loads Concentrated Loads.std)
  - Lane 12 LG 1-127
  - Lane 11 LG 128-254
  - Lane 10 LG 255-381
  - Lane 9 LG 382-508
  - Lane 8 LG 509-635
  - Lane 7 LG 636-762

MAXIMUM POSITIVE MOMENT

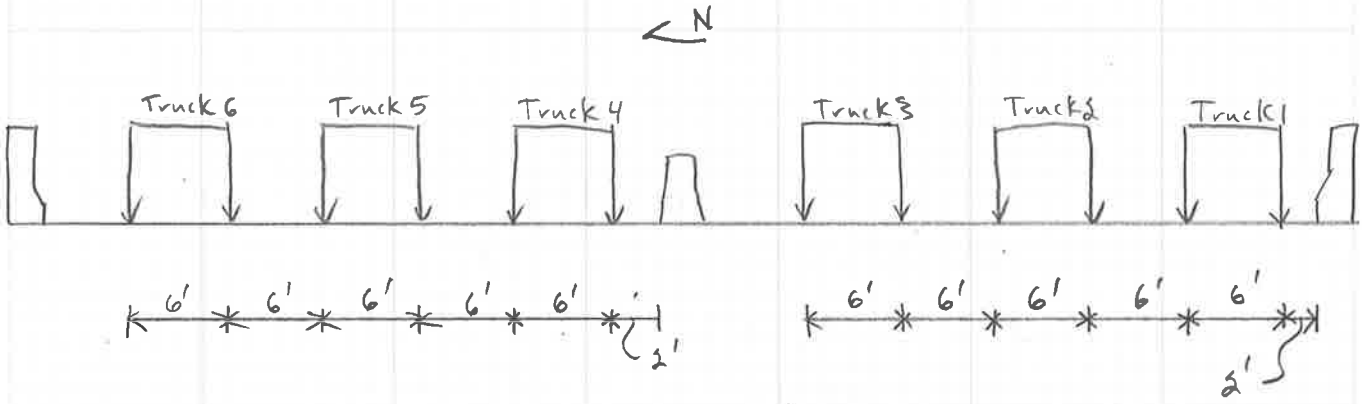
- Distributed Loads (5 Global Positive Moment.std)
  - Lane 12 LG 1, 7, 13, 19, 25
  - Lane 11 LG 2, 8, 14, 20, 26
  - Lane 10 LG 3, 9, 15, 21, 27
  - Lane 9 LG 4, 10, 16, 22, 28
  - Lane 8 LG 5, 11, 17, 23, 29
  - Lane 7 LG 6, 12, 18, 24, 30
- Concentrated Loads (26 k Load applied) (5 Lane Loads Concentrated Loads.std)
  - Lane 12 LG 16, 36, 57, 83, 119
  - Lane 11 LG 143, 163, 184, 210, 246
  - Lane 10 LG 270, 290, 311, 337, 374
  - Lane 9 LG 397, 417, 438, 464, 500
  - Lane 8 LG 524, 544, 565, 591, 627
  - Lane 7 LG 651, 671, 692, 718, 754

MAXIMUM NEGATIVE MOMENT SIMILAR TO NORTH TRUSS

Calculations for 1/8 US Grid



Maximize North Truss



Maximize South Truss

Calculations for 1/8 US Grid

VEHICLE IMPACT

IMPACT FACTORS (NORTH)

- SPAN 1 CANTILEVER PORTION: [PP 0-6]

$$I = \frac{50}{140+125} = 1.189$$

- SPAN 2 NEGATIVE MOMENT REGION [7-11]

$$I = \frac{50}{\left(\frac{200+200}{2}\right)+125} = 1.154$$

- SPAN 2 POSITIVE MOMENT REGION [12-17]

$$I = \frac{50}{200+125} = 1.154$$

- SPAN 2 NEGATIVE MOMENT REGION [18-22]

$$I = \frac{50}{\left(\frac{200+160}{2}\right)+125} = 1.164$$

- SPAN 3 SUSPENDED SPAN [23-27]

$$I = \frac{50}{100+125} = 1.222$$

- SPAN 4 NEGATIVE MOMENT REGION [28-31]

$$I = \frac{50}{\left(\frac{140+200}{2}\right)+125} = 1.169$$

- SPAN 4 POSITIVE MOMENT REGION [32-37]

$$I = \frac{50}{200+125} = 1.154$$

- SPAN 4 NEGATIVE MOMENT REGION [38-41]

$$I = \frac{50}{\left(\frac{200+161.354}{2}\right)+125} = 1.164$$

- SPAN 5 SUSPENDED SPAN [42-47]

$$I = \frac{50}{121.354+125} = 1.203$$

- SPAN 6 NEGATIVE MOMENT REGION [48-51]

$$I = \frac{50}{\left(\frac{163.746+261.547}{2}\right)+125} = 1.148$$

- SPAN 6 POSITIVE MOMENT REGION [52-59]

$$I = \frac{50}{261.547+125} = 1.129$$

- SPAN 6 NEGATIVE MOMENT REGION [60-64]

$$I = \frac{50}{\left(\frac{261.547+100}{2}\right)+125} = 1.145$$

Calculations for 1/8 US Grid

- SPAN 7 SUSPENDED SPAN [PP 65-70]

$$I = \frac{50}{120+125} = 1.204$$

- SPAN 8 NEGATIVE MOMENT REGION [71-75]

$$I = \frac{50}{\left(\frac{180+320}{2}\right)+125} = 1.133$$

- SPAN 8 POSITIVE MOMENT REGION [76-85]

$$I = \frac{50}{320+125} = 1.112$$

- SPAN 8 NEGATIVE MOMENT REGION [86-95]

$$I = \frac{50}{\left(\frac{320+280}{2}\right)+125} = 1.118$$

- SPAN 9 SUSPENDED SPAN [96-103]

$$I = \frac{50}{160+125} = 1.175$$

- SPAN 10 NEGATIVE MOMENT REGION [104-114]

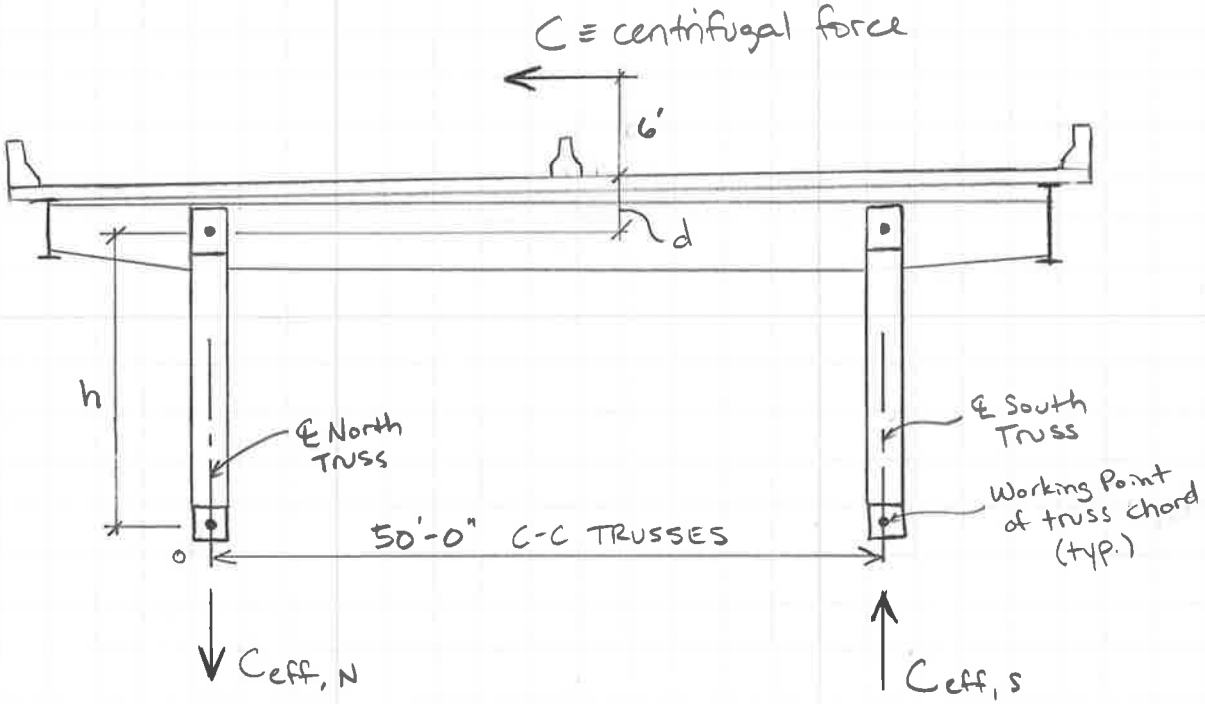
$$I = \frac{50}{\left(\frac{280+304.49}{2}\right)+125} \quad 1.117$$

- SPAN 10 POSITIVE MOMENT REGION [115-125]

$$I = \frac{50}{325.497+125} = 1.111$$

CENTRIFUGAL FORCES

CENTRIFUGAL FORCE



→ Treat each panel point as a frame that resists the couple generated by the lateral load due to centrifugal force.

→ The North TRUSS will experience increased loading, while the South Truss experiences a decrease.
∴ For the South Truss, calculate the following 2 load cases and use the critical forces:

- Impact with reduction from centrifugal force (trucks moving)
- No impact or centrifugal force (this represents stationary trucks in the critical positions)

→ The centrifugal force, C, will be calculated per AASHTO 3.10.1 for the two bend points on the bridge with unique radii.

Calculations for 1/4 US Grid

$C = \frac{6.68 S^2}{R}$, where R = radius at ℄ roadway
S = design speed (MPH)

Bend point #1 (PP 44 to 62): $R = 1762.95' \Rightarrow C = 9.473\%$

Bend Point #2: $R = 1000' \Rightarrow C = 16.7\%$

→ Treating each panel point as a frame, the centrifugal force increase or decrease is a function of the height of the truss verticals.

$$\Sigma M_o = C \times (6' + d + h) - 50' \times C_{eff}$$

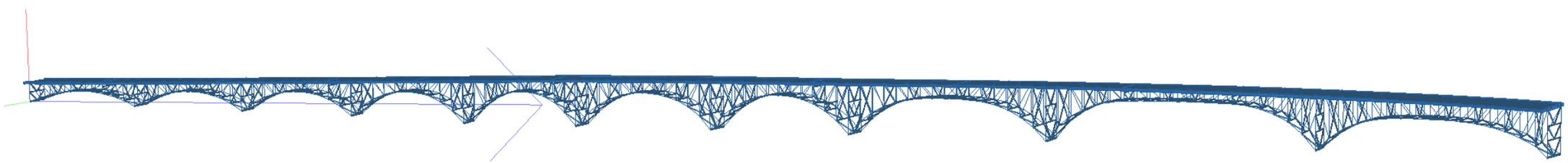
$$\therefore C_{eff} = \frac{C \times (6' + d + h)}{50'}$$

Assume $d \approx 4'$ as an average (per plans)

$$\therefore C_{eff} = \frac{C \times (10' + h)}{50'}$$, where h = height of vertical (working pt to working pt)

Calculations for 1/4 US Grid

STAAD MODEL



STAAD MODEL GEOMETRY

- Main Truss STAAD Geometry (G:\CL11\46\Bridge\Analysis\Truss\Modeling\Geometry.xlsx)

Truss -

Joints
- 1-127 S. Truss Lower Chord
- 128-254 S. Truss Upper Chord
- 255-381 N. Truss Lower Chord
- 382-508 N. Truss Upper Chord

Pts. at piers outside (below) actual gusset ℄ due to slope of LC Members. (Unbraced length of verticals longer ≈ 2' as a result.

Members
- 1-126 S. Truss LC
- 127-252 S. Truss UC
- 253-378 N. Truss LC
- 379-504 N. Truss UC
- 505-631 S. Truss Verticals
- 632-758 N. Truss Verticals
- 759-884 S. Truss Diagonals
- 885-1010 N. Truss Diagonals

Framing -

Joints for Stringers + FB's:

ABBBCC A = Placeholder BBB = Floorbeam CC = Stringer (N. to S.)

Members

Stringers: ABBBCC A = Placeholder BBB = Stringer Bay CC = Stringer Line

FB's: ABBCCC A = Placeholder BB = Section of FB (N to S)
CCC = Floorbeam (0 to 126)

Lateral Bracing -

Joints 600-726 Midpoint b/w LC Panel Points

Members Horizontal (i.e. L_1-L_1) 2000-2252

Diagonal 2300-2551

Longitudinal (including wind Locks) members 6000-6024

Sway Bracing -

Joints
- 3000-3082 S. Truss Vertical/Sway Connections
- 3083-3165 N. Truss Vertical/Sway Connections

Member 3505-4758 (Vertical Upper Portions)

Calculations for 1/8 US Grid

Sway Bracing -

Vertical members must be broken up at following panel points for sway bracing connections:

0, 7, 10, 20, 29, 28, 30, 40, 48, 49, 50, 62, 72, 71, 74, 90, 96, 104, 110, 126

→ Distance to sway connection from LC taken from as-built plans on South Truss Line (Assume N. Truss Similar).

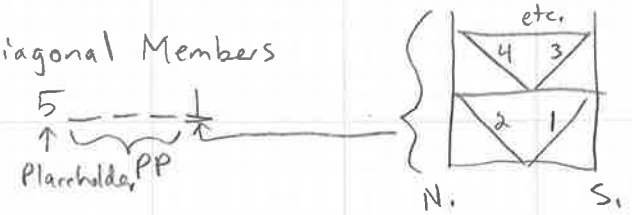
→ Verticals at above PP's divides into sections.

Members 3505 – 4758

- Horizontal Struts

Members 5000 – 5165

- Diagonal Members



Calculations for 1/8 US Grid

Main Truss
STAAD Model

Supports –

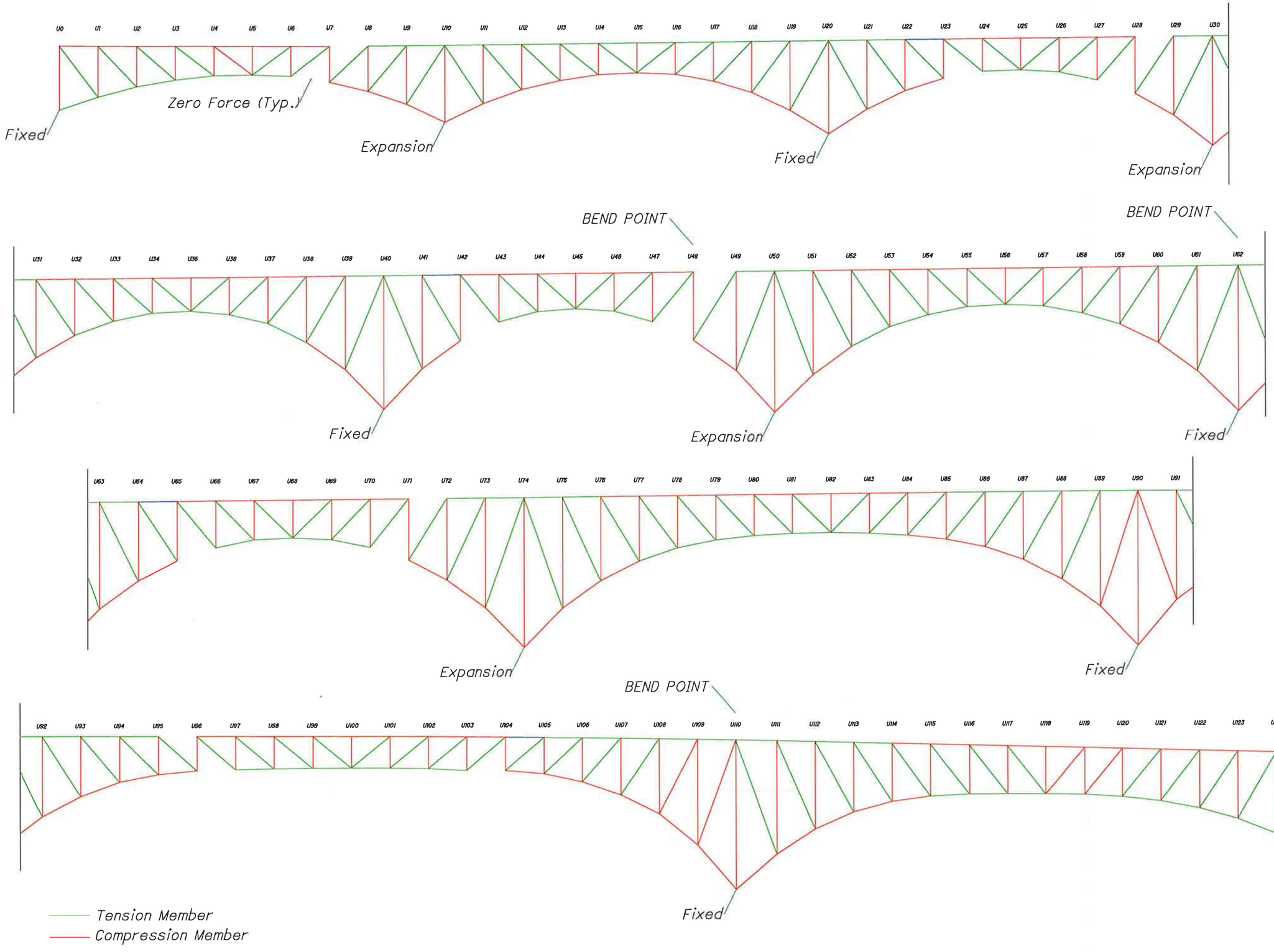
	Type	
L0	Fixed (Pin)	* Used STAAD "Inclined Support" feature to align longitudinal release with truss and not global X-direction. (Necessary due to truss curvature).
L10	Expansion (Pin)	
L20	Fixed (Pin)	
L30	Expansion (Pin)	
L40	Fixed (Pin)	
L50	Expansion (Pin) ←*	
L62	Fixed (Pin)	
L74	Expansion (Pin) ←*	
L90	Fixed (Pin)	
L110	Fixed (Pin)	
L126	Expansion (Pin) ←*	

Releases –

- All truss members are released in MZ direction at panel points. MX and MY are not released to ensure 3D model stability.
- Secondary truss members are pin connected to truss panel points (Release MX, MY, MZ).
- Floorbeams are fixed at connection to truss.
- Stringers are released in the FX and MZ. FX release prevents stringers from carrying axial forces intended for upper chord members.
- Wind lock tongues released in FX direction.
- Zero-force members released in FX direction. The following members treated as zero-force in both the original plans and the 1996 Load Rating were modeled without the FX released. This variance is necessary for stability of the 3D model and is in-line with the member connections within the shop drawings:

U22-U23	U64-U65
U41-U42	U104-U105

↑ No slotted hole present.



NORTH TRUSS FORCE DIAGRAM (SOUTH ELEVATION)

Main Truss
STAAD Model

Geometry -

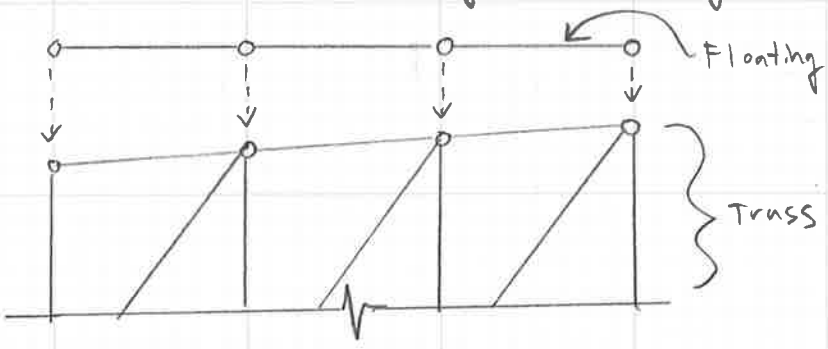
- Member lengths are determined by working point to working point. This method produces slightly longer members adjacent to piers where steep lower chord members cause the working point to be lower by roughly 2'.
- Super-elevation and curvature modeled. Where elevation change is less than 1" between North and South truss, super-elevation is ignored.

Section Properties -

- Section properties include built-up truss members and floorbeams, tapered-built-up overhang floorbeams, rolled secondary members and stringers.

Floating Deck -

- Modeled framing members raised up from truss in order to avoid applying live load to upper chord members directly / web members. Loads applied to floating deck. "Master-Slave" relationship used to transfer vertical forces (FY) to framing members at truss level. (Dead load self-weight and bump-ups only applied to floating deck framing members.)



Calculations for 1/8 US Grid

Main Truss
STAAD MODEL

Dead Load —

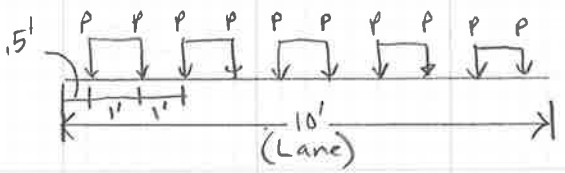
- Self-weight was applied to all members w/ calculated dead load "bump-ups" to account for connections, fill plates, lateral bracing gusset plates, etc.
- Several point loads were applied to the structure including catwalk, truss gusset plates, drainage troughs, overhead signs
- Deck, parapet and wearing surface loads applied as distributed loads to stringers.

* For more information, see Dead Load components of calculations.

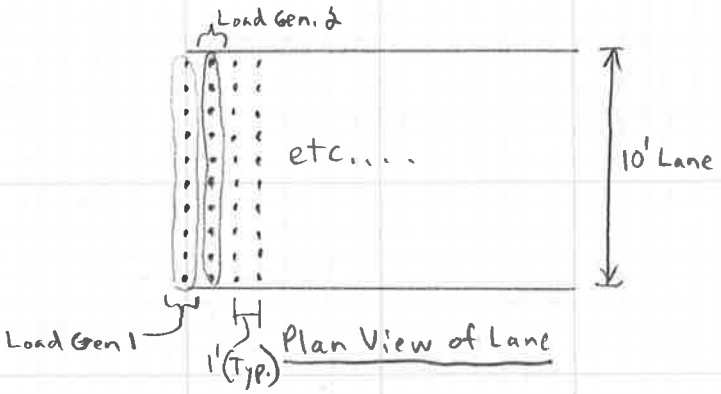
Live Load —

- Due to multiple horizontal bend points along the structure, a unique method was utilized to apply lane and truck loading across the structure.

- Lane Load -
  Utilized a series of load generations to create distributed load → Single axle "trucks" consisting of wheels spaced 1' apart with a 64 lb/ft tire load:



P = 64 lb/ft
} Σ = 640 lb/ft



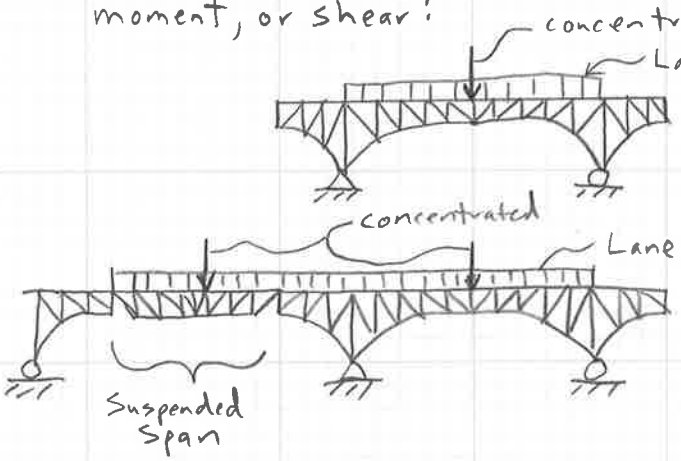
* All loads applied to floating deck.

- Concentrated Loads for Shear or Moment applied at FB location.

Main Truss
STAAD MODEL

- Lane Load (cont.) -

Applied such as to maximize either positive moment, negative moment, or shear:



- Vehicle Load -

Centrifugal Forces

- Applied as a percentage of the live load, 6' above the roadway.
- Treat each panel point as a rigid frame that resists the force couple generated by the centrifugal force.
- The horizontal component of the centrifugal force is resisted by the concrete deck per AASHTO 3.10.5.
- See the Centrifugal Force calculations on 3/30/12 for calculations.
- The centrifugal force contribution for each panel point is calculated as a function of the truss height. Upper chords, lower chords, and diagonals will use the average of the adjacent panel points.

Calculations for 1/8 US Grid

Main Truss
STAAD MODEL

- Vehicle Load (Cont.) -

Utilized a series of single axle, single wheel "trucks" (point loads) generated across the bridge. Due to curvature and portions of the bridge not parallel with primary global axis, point loads were applied in a series of static load cases to mimic a moving load, instead of using the standard load generation function.

Live load generations were applied at 5' spacing between static point loads.

Calculations for 1/8 US Grid

INPUT COMMAND FILE

DEAD LOAD COMMAND FILE

```
STAAD SPACE
START JOB INFORMATION
ENGINEER DATE 25-Jan-12
JOB NAME Main Avenue Bridge Load Rating
JOB CLIENT ODOT - D12
JOB NO P402110046
ENGINEER NAME ADK

END JOB INFORMATION
INPUT WIDTH 79
UNIT FEET KIP
JOINT COORDINATES
1 0 0 0; 2 20 6.77 0; 3 40 12.04 0; 4 60 15.57 0; 5 80 17.77 0; 6 100 18.06 0;
7 120 17.36 0; 8 140 14.26 0; 9 160 9.45 0; 10 180 2.66 0; 11 200 -6.7 0;
12 220 2.98 0; 13 240 10.16 0; 14 260 14.84 0; 15 280 17.85 0; 16 300 18.7 0;
17 320 17.88 0; 18 340 14.23 0; 19 360 8.24 0; 20 380 -1.08 0; 21 400 -13.4 0;
22 420 -0.72 0; 23 440 8.96 0; 24 460 15.31 0; 25 480 18.82 0; 26 500 19.5 0;
27 520 18.43 0; 28 540 14.19 0; 29 560 7.04 0; 30 580 -4.28 0; 31 600 -20.1 0;
32 620 -3.92 0; 33 640 7.76 0; 34 660 15.11 0; 35 680 19.29 0; 36 700 20.3 0;
37 720 18.39 0; 38 740 13.82 0; 39 760 3.84 0; 40 780 -10.48 0; 41 800 -31.3 0;
42 820 -10.12 0; 43 840 4.56 0; 44 860 14.25 0; 45 880 19.68 0; 46 900 21.11 0;
47 920 19.8 0; 48 940 14.23 0; 49 958.65 4.33 0; 50 976.46 -11.68 2.55;
51 996.26 -33.5 5.38; 52 1016.06 -13.82 8.21; 53 1035.86 0.86 11.04;
54 1055.65 11.04 13.87; 55 1075.45 17.23 16.71; 56 1095.25 21.41 19.54;
57 1115.05 22.59 22.37; 58 1134.85 21.77 25.2; 59 1154.65 17.95 28.03;
60 1174.45 12.13 30.86; 61 1194.24 2.31 33.69; 62 1214.04 -12.5 36.53;
63 1231.94 -33.51 39.09; 64 1251.5 -12.91 43.28; 65 1271.05 1.69 47.48;
66 1290.61 12.2 51.68; 67 1310.16 18.88 55.87; 68 1329.72 23.06 60.07;
69 1349.27 23.99 64.26; 70 1368.83 23.09 68.46; 71 1388.38 19.02 72.66;
72 1407.94 12.28 76.85; 73 1427.49 1.8 81.05; 74 1447.05 -12.77 85.25;
75 1466.6 -33.51 89.44; 76 1486.16 -13 93.64; 77 1505.71 1.27 97.84;
78 1525.26 11.45 102.03; 79 1544.82 18.29 106.23; 80 1564.37 22.3 110.43;
81 1583.93 24.57 114.62; 82 1603.48 25.58 118.82; 83 1623.04 26.01 123.02;
84 1642.59 25.61 127.21; 85 1662.15 24.45 131.41; 86 1681.7 22.3 135.61;
87 1701.26 18.3 139.8; 88 1720.81 11.61 144; 89 1740.37 1.23 148.2;
90 1759.92 -12.93 152.39; 91 1779.48 -33.45 156.59; 92 1799.03 -9.58 160.79;
93 1818.59 5.44 164.98; 94 1838.14 15.93 169.18; 95 1857.7 23.39 173.38;
96 1877.25 27.33 177.57; 97 1896.81 29.25 181.77; 98 1916.36 29.88 185.96;
99 1935.91 30.33 190.16; 100 1955.47 30.58 194.36; 101 1975.02 30.65 198.55;
102 1994.58 30.64 202.75; 103 2014.13 30.28 206.95; 104 2033.69 29.77 211.14;
105 2053.24 29.15 215.34; 106 2072.8 27.33 219.54; 107 2092.35 22.99 223.73;
108 2111.91 16.13 227.93; 109 2131.46 6.24 232.13; 110 2151.02 -10.17 236.32;
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117 2285.52 15.99 271; 118 2304.85 16.13 276.12; 119 2324.18 16.07 281.25;
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133 100 33.03 0; 134 120 32.98 0; 135 140 32.92 0; 136 160 33.05 0;
137 180 33.17 0; 138 200 33.3 0; 139 220 33.48 0; 140 240 33.66 0;
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500186 1154.647 50 28.031 ;
500187 1174.445 50 30.862 ;
500188 1194.244 50 33.694 ;
500189 1214.042 50 36.525 ;
500190 1231.942 50 39.085 ;
500191 1251.497 50 43.282 ;
500192 1271.052 50 47.478 ;
500193 1290.607 50 51.675 ;
500194 1310.162 50 55.871 ;
500195 1329.716 50 60.068 ;
500196 1349.271 50 64.264 ;
500197 1368.826 50 68.461 ;
500198 1388.381 50 72.658 ;
500199 1407.935 50 76.854 ;
500200 1427.49 50 81.051 ;
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500200 1427.49 50 81.051 ;
500201 1447.045 50 85.247 ;
500202 1466.6 50 89.444 ;
500203 1486.155 50 93.64 ;
500204 1505.709 50 97.837 ;
500205 1525.264 50 102.033 ;
500206 1544.819 50 106.23 ;
500207 1564.374 50 110.426 ;
500208 1583.928 50 114.623 ;
500209 1603.483 50 118.819 ;
500210 1623.038 50 123.016 ;
500211 1642.593 50 127.213 ;
500212 1662.147 50 131.409 ;
500213 1681.702 50 135.606 ;
500214 1701.257 50 139.802 ;
500215 1720.812 50 143.999 ;
500216 1740.367 50 148.195 ;
500217 1759.921 50 152.392 ;
500218 1779.476 50 156.588 ;
500219 1799.031 50 160.785 ;
500220 1818.586 50 164.981 ;
500221 1838.14 50 169.178 ;
500222 1857.695 50 173.375 ;
500223 1877.25 50 177.571 ;
500224 1896.805 50 181.768 ;
500225 1916.359 50 185.964 ;
500226 1935.914 50 190.161 ;
500227 1955.469 50 194.357 ;
500228 1975.024 50 198.554 ;
500229 1994.579 50 202.75 ;
500230 2014.133 50 206.947 ;
500231 2033.688 50 211.143 ;
500232 2053.243 50 215.34 ;
500233 2072.798 50 219.537 ;
500234 2092.352 50 223.733 ;
500235 2111.907 50 227.93 ;
500236 2131.462 50 232.126 ;
500237 2151.017 50 236.323 ;
500238 2170.528 50 240.68 ;
500239 2188.859 50 245.368 ;
500240 2208.191 50 250.493 ;
500241 2227.523 50 255.619 ;
500242 2246.855 50 260.744 ;
500243 2266.187 50 265.87 ;
500244 2285.519 50 270.995 ;
500245 2304.851 50 276.121 ;
500246 2324.183 50 281.247 ;
500247 2343.515 50 286.372 ;
500248 2362.847 50 291.498 ;
500249 2382.179 50 296.623 ;
500250 2401.512 50 301.749 ;
500251 2420.844 50 306.874 ;
500252 2440.176 50 312 ;
500253 2459.508 50 317.125 ;
500254 2475.018 50 321.238 ;
*382-508 North Truss Upper Chord
500382 0 50 -50 ;
500383 20 50 -50 ;
500384 40 50 -50 ;
500385 60 50 -50 ;
500386 80 50 -50 ;
500387 100 50 -50 ;
500388 120 50 -50 ;
500389 140 50 -50 ;
500390 160 50 -50 ;
500391 180 50 -50 ;
500392 200 50 -50 ;
500393 220 50 -50 ;
500394 240 50 -50 ;
500395 260 50 -50 ;
500396 280 50 -50 ;
500397 300 50 -50 ;
500398 320 50 -50 ;
500399 340 50 -50 ;
500400 360 50 -50 ;
500401 380 50 -50 ;
500402 400 50 -50 ;
500403 420 50 -50 ;
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500408 520 50 -50 ;
500409 540 50 -50 ;
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500411 580 50 -50 ;
500412 600 50 -50 ;
500413 620 50 -50 ;
500414 640 50 -50 ;
500415 660 50 -50 ;
500416 680 50 -50 ;
500417 700 50 -50 ;
500418 720 50 -50 ;
500419 740 50 -50 ;
500420 760 50 -50 ;
500421 780 50 -50 ;
500422 800 50 -50 ;
500423 820 50 -50 ;
500424 840 50 -50 ;
500425 860 50 -50 ;
500426 880 50 -50 ;
500427 900 50 -50 ;
500428 920 50 -50 ;
500429 940 50 -50 ;
500430 961.354 50 -50 ;
500431 983.521 50 -46.83 ;
500432 1003.32 50 -43.998 ;
500433 1023.119 50 -41.167 ;
500434 1042.917 50 -38.335 ;
500435 1062.716 50 -35.504 ;
500436 1082.514 50 -32.672 ;
500437 1102.313 50 -29.841 ;
500438 1122.111 50 -27.01 ;
500439 1141.91 50 -24.178 ;
500440 1161.708 50 -21.347 ;
500441 1181.507 50 -18.515 ;
500442 1201.306 50 -15.684 ;
500443 1221.104 50 -12.852 ;
500444 1242.434 50 -9.802 ;
500445 1261.989 50 -5.605 ;
500446 1281.543 50 -1.409 ;
500447 1301.098 50 2.788 ;
500448 1320.653 50 6.984 ;
500449 1340.208 50 11.181 ;
500450 1359.762 50 15.377 ;
500451 1379.317 50 19.574 ;
500452 1398.872 50 23.771 ;
500453 1418.427 50 27.967 ;
500454 1437.982 50 32.164 ;
500455 1457.536 50 36.36 ;
500456 1477.091 50 40.557 ;
500457 1496.646 50 44.753 ;
500458 1516.201 50 48.95 ;
500459 1535.755 50 53.146 ;
500460 1555.31 50 57.343 ;
500461 1574.865 50 61.539 ;
500462 1594.42 50 65.736 ;
500463 1613.974 50 69.933 ;
500464 1633.529 50 74.129 ;
500465 1653.084 50 78.326 ;
500466 1672.639 50 82.522 ;
500467 1692.194 50 86.719 ;
500468 1711.748 50 90.915 ;
500469 1731.303 50 95.112 ;
500470 1750.858 50 99.308 ;
500471 1770.413 50 103.505 ;
500472 1789.967 50 107.701 ;
500473 1809.522 50 111.898 ;
500474 1829.077 50 116.095 ;
500475 1848.632 50 120.291 ;
500476 1868.187 50 124.488 ;
500477 1887.741 50 128.684 ;
500478 1907.296 50 132.881 ;
500479 1926.851 50 137.077 ;
500480 1946.406 50 141.274 ;
500481 1965.96 50 145.47 ;
500482 1985.515 50 149.667 ;
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500482 1985.515 50 149.667 ;
500483 2005.07 50 153.863 ;
500484 2024.625 50 158.06 ;
500485 2044.179 50 162.256 ;
500486 2063.734 50 166.453 ;
500487 2083.289 50 170.65 ;
500488 2102.844 50 174.846 ;
500489 2122.399 50 179.043 ;
500490 2141.953 50 183.239 ;
500491 2161.508 50 187.436 ;
500492 2181.061 50 191.641 ;
500493 2201.659 50 197.093 ;
500494 2220.99 50 202.218 ;
500495 2240.322 50 207.344 ;
500496 2259.654 50 212.469 ;
500497 2278.986 50 217.595 ;
500498 2298.318 50 222.72 ;
500499 2317.65 50 227.846 ;
500500 2336.983 50 232.972 ;
500501 2356.315 50 238.097 ;
500502 2375.647 50 243.223 ;
500503 2394.979 50 248.348 ;
500504 2414.311 50 253.474 ;
500505 2433.643 50 258.599 ;
500506 2452.975 50 263.725 ;
500507 2472.307 50 268.85 ;
500508 2495.689 50 275.05 ;

*1-127 South Truss Lower Chord
*128-254 South Truss Upper Chord
*255-381 North Truss Lower Chord
*382-508 North Truss Upper Chord
*STRINGERS - A BBB CC A=Placeholder, BBB=Floorbeam, CC=Stringer (North to South)
**Cantilever Stringes at Panel Point 0
**Stringers
* Lateral Bracing Strut Midpoints (600-726)
* Sway connections to truss vertical members.
*Sway Horizontal Midpoints
MEMBER INCIDENCES
*1-126 South Truss Lower Chord
1 1 2 ;
2 2 3 ;
3 3 4 ;
4 4 5 ;
5 5 6 ;
6 6 7 ;
7 7 8 ;
8 8 9 ;
9 9 10 ;
10 10 11 ;
11 11 12 ;
12 12 13 ;
13 13 14 ;
14 14 15 ;
15 15 16 ;
16 16 17 ;
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19 19 20 ;
20 20 21 ;
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22 22 23 ;
23 23 24 ;
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26 26 27 ;
27 27 28 ;
28 28 29 ;
29 29 30 ;
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32 32 33 ;
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*127-252 South Truss Upper Chord
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136 137 138 ;
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*253-378 North Truss Lower Chord
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*379-504 North Truss Upper Chord
379 382 383 ;
380 383 384 ;
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498 501 502 ;
499 502 503 ;
500 503 504 ;
501 504 505 ;
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504 507 508 ;
*505-631 South Truss Verticals
505 1 3000 ;
506 2 129 ;
507 3 130 ;
508 4 131 ;
509 5 132 ;
510 6 133 ;
511 7 134 ;
512 8 3003 ;
513 9 136 ;
514 10 137 ;
515 11 3005 ;
516 12 139 ;
517 13 140 ;
518 14 141 ;
519 15 142 ;
520 16 143 ;
521 17 144 ;
522 18 145 ;
523 19 146 ;
524 20 147 ;
525 21 3011 ;
526 22 149 ;
527 23 150 ;
528 24 151 ;
529 25 152 ;
530 26 153 ;
531 27 154 ;
532 28 155 ;
533 29 3015 ;
534 30 3016 ;
535 31 3017 ;
536 32 159 ;
537 33 160 ;
538 34 161 ;
539 35 162 ;
540 36 163 ;
541 37 164 ;
542 38 165 ;
543 39 166 ;
544 40 167 ;
545 41 3023 ;
546 42 169 ;
547 43 170 ;
548 44 171 ;
549 45 172 ;
550 46 173 ;
551 47 174 ;
552 48 175 ;
553 49 3029 ;
554 50 3030 ;
555 51 3031 ;
556 52 179 ;
557 53 180 ;
558 54 181 ;
559 55 182 ;
560 56 183 ;
561 57 184 ;
562 58 185 ;
563 59 186 ;
564 60 187 ;
565 61 188 ;
566 62 189 ;
567 63 3039 ;
568 64 191 ;
569 65 192 ;
570 66 193 ;
571 67 194 ;
572 68 195 ;
573 69 196 ;
574 70 197 ;
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577 73 3046 ;
578 74 201 ;
579 75 3048 ;
580 76 203 ;
581 77 204 ;
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582 78 205 ;
583 79 206 ;
584 80 207 ;
585 81 208 ;
586 82 209 ;
587 83 210 ;
588 84 211 ;
589 85 212 ;
590 86 213 ;
591 87 214 ;
592 88 215 ;
593 89 216 ;
594 90 217 ;
595 91 3058 ;
596 92 219 ;
597 93 220 ;
598 94 221 ;
599 95 222 ;
600 96 223 ;
601 97 3063 ;
602 98 225 ;
603 99 226 ;
604 100 227 ;
605 101 228 ;
606 102 229 ;
607 103 230 ;
608 104 231 ;
609 105 3066 ;
610 106 233 ;
611 107 234 ;
612 108 235 ;
613 109 236 ;
614 110 237 ;
615 111 3070 ;
616 112 239 ;
617 113 240 ;
618 114 241 ;
619 115 242 ;
620 116 243 ;
621 117 244 ;
622 118 245 ;
623 119 246 ;
624 120 247 ;
625 121 248 ;
626 122 249 ;
627 123 250 ;
628 124 251 ;
629 125 252 ;
630 126 253 ;
631 127 3081 ;
*632-758 North Truss Verticals
632 255 3083 ;
633 256 383 ;
634 257 384 ;
635 258 385 ;
636 259 386 ;
637 260 387 ;
638 261 388 ;
639 262 3086 ;
640 263 390 ;
641 264 391 ;
642 265 3088 ;
643 266 393 ;
644 267 394 ;
645 268 395 ;
646 269 396 ;
647 270 397 ;
648 271 398 ;
649 272 399 ;
650 273 400 ;
651 274 401 ;
652 275 3094 ;
653 276 403 ;
654 277 404 ;
655 278 405 ;
656 279 406 ;
657 280 407 ;
658 281 408 ;
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658 281 408 ;
659 282 409 ;
660 283 3098 ;
661 284 3099 ;
662 285 3100 ;
663 286 413 ;
664 287 414 ;
665 288 415 ;
666 289 416 ;
667 290 417 ;
668 291 418 ;
669 292 419 ;
670 293 420 ;
671 294 421 ;
672 295 3106 ;
673 296 423 ;
674 297 424 ;
675 298 425 ;
676 299 426 ;
677 300 427 ;
678 301 428 ;
679 302 429 ;
680 303 3112 ;
681 304 3113 ;
682 305 3114 ;
683 306 433 ;
684 307 434 ;
685 308 435 ;
686 309 436 ;
687 310 437 ;
688 311 438 ;
689 312 439 ;
690 313 440 ;
691 314 441 ;
692 315 442 ;
693 316 443 ;
694 317 3122 ;
695 318 445 ;
696 319 446 ;
697 320 447 ;
698 321 448 ;
699 322 449 ;
700 323 450 ;
701 324 451 ;
702 325 452 ;
703 326 3128 ;
704 327 3129 ;
705 328 455 ;
706 329 3131 ;
707 330 457 ;
708 331 458 ;
709 332 459 ;
710 333 460 ;
711 334 461 ;
712 335 462 ;
713 336 463 ;
714 337 464 ;
715 338 465 ;
716 339 466 ;
717 340 467 ;
718 341 468 ;
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721 344 471 ;
722 345 3141 ;
723 346 473 ;
724 347 474 ;
725 348 475 ;
726 349 476 ;
727 350 477 ;
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730 353 480 ;
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735 358 485 ;
736 359 3149 ;
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752 375 502 ;
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754 377 504 ;
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756 379 506 ;
757 380 507 ;
758 381 3164 ;
*759-884 South Truss Diagonals
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760 129 3 ;
761 130 4 ;
762 131 5 ;
763 132 6 ;
764 134 6 ;
765 135 7 ;
766 136 8 ;
767 137 9 ;
768 138 10 ;
769 138 12 ;
770 139 13 ;
771 140 14 ;
772 141 15 ;
773 142 16 ;
774 144 16 ;
775 145 17 ;
776 146 18 ;
777 147 19 ;
778 148 20 ;
779 148 22 ;
780 149 23 ;
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802 171 45 ;
803 172 46 ;
804 174 46 ;
805 175 47 ;
806 176 48 ;
807 177 49 ;
808 178 50 ;
809 178 52 ;
810 179 53 ;
811 180 54 ;
812 181 55 ;
813 182 56 ;

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813 182 56 ;
814 183 57 ;
815 185 57 ;
816 186 58 ;
817 187 59 ;
818 188 60 ;
819 189 61 ;
820 190 62 ;
821 190 64 ;
822 191 65 ;
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2237 718 119 ;
2238 374 719 ;
2239 719 120 ;
2240 375 720 ;
2241 720 121 ;
2242 376 721 ;
2243 721 122 ;
2244 377 722 ;
2245 722 123 ;
2246 378 723 ;
2247 723 124 ;
2248 379 724 ;
2249 724 125 ;
2250 380 725 ;
2251 725 126 ;
2252 381 726 ;
2253 726 127 ;
* Lateral Bracing Diagonal Members (2300-2553)
2300 256 600 ;
2301 600 2 ;
2302 257 601 ;
2303 601 3 ;
2304 258 602 ;
2305 602 4 ;
2306 259 603 ;
2307 603 5 ;
2308 260 604 ;
2309 604 6 ;
2310 260 606 ;
2311 606 6 ;
2312 261 607 ;
2313 607 7 ;
2314 262 608 ;
2315 608 8 ;
2316 263 609 ;
2317 609 9 ;
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2317 609 9 ;
2318 264 610 ;
2319 610 10 ;
2320 266 610 ;
2321 610 12 ;
2322 267 611 ;
2323 611 13 ;
2324 268 612 ;
2325 612 14 ;
2326 269 613 ;
2327 613 15 ;
2328 270 614 ;
2329 614 16 ;
2330 270 616 ;
2331 616 16 ;
2332 271 617 ;
2333 617 17 ;
2334 272 618 ;
2335 618 18 ;
2336 273 619 ;
2337 619 19 ;
2338 274 620 ;
2339 620 20 ;
2340 276 620 ;
2341 620 22 ;
2342 277 621 ;
2343 621 23 ;
2344 278 622 ;
2345 622 24 ;
2346 279 623 ;
2347 623 25 ;
2348 280 624 ;
2349 624 26 ;
2350 280 626 ;
2351 626 26 ;
2352 281 627 ;
2353 627 27 ;
2354 282 628 ;
2355 628 28 ;
2356 283 629 ;
2357 629 29 ;
2358 284 630 ;
2359 630 30 ;
2360 286 630 ;
2361 630 32 ;
2362 287 631 ;
2363 631 33 ;
2364 288 632 ;
2365 632 34 ;
2366 289 633 ;
2367 633 35 ;
2368 290 634 ;
2369 634 36 ;
2370 290 636 ;
2371 636 36 ;
2372 291 637 ;
2373 637 37 ;
2374 292 638 ;
2375 638 38 ;
2376 293 639 ;
2377 639 39 ;
2378 294 640 ;
2379 640 40 ;
2380 296 640 ;
2381 640 42 ;
2382 297 641 ;
2383 641 43 ;
2384 298 642 ;
2385 642 44 ;
2386 299 643 ;
2387 643 45 ;
2388 300 644 ;
2389 644 46 ;
2390 300 646 ;
2391 646 46 ;
2392 301 647 ;
2393 647 47 ;
2394 302 648 ;
2395 648 48 ;
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2398 304 650 ;
2399 650 50 ;
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2401 650 52 ;
2402 307 651 ;
2403 651 53 ;
2404 308 652 ;
2405 652 54 ;
2406 309 653 ;
2407 653 55 ;
2408 310 654 ;
2409 654 56 ;
2410 311 655 ;
2411 655 57 ;
2412 311 657 ;
2413 657 57 ;
2414 312 658 ;
2415 658 58 ;
2416 313 659 ;
2417 659 59 ;
2418 314 660 ;
2419 660 60 ;
2420 315 661 ;
2421 661 61 ;
2422 316 662 ;
2423 662 62 ;
2424 318 662 ;
2425 662 64 ;
2426 319 663 ;
2427 663 65 ;
2428 320 664 ;
2429 664 66 ;
2430 321 665 ;
2431 665 67 ;
2432 322 666 ;
2433 666 68 ;
2434 323 667 ;
2435 667 69 ;
2436 323 669 ;
2437 669 69 ;
2438 324 670 ;
2439 670 70 ;
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2458 335 679 ;
2459 679 81 ;
2460 336 680 ;
2461 680 82 ;
2462 337 681 ;
2463 681 83 ;
2464 337 683 ;
2465 683 83 ;
2466 338 684 ;
2467 684 84 ;
2468 339 685 ;
2469 685 85 ;
2470 340 686 ;
2471 686 86 ;
2472 341 687 ;
2473 687 87 ;
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2476 343 689 ;
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2481 690 92 ;
2482 347 691 ;
2483 691 93 ;
2484 348 692 ;
2485 692 94 ;
2486 349 693 ;
2487 693 95 ;
2488 350 694 ;
2489 694 96 ;
2490 351 695 ;
2491 695 97 ;
2492 352 696 ;
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2494 353 697 ;
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2496 354 698 ;
2497 698 100 ;
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2499 699 101 ;
2500 355 701 ;
2501 701 101 ;
2502 356 702 ;
2503 702 102 ;
2504 357 703 ;
2505 703 103 ;
2506 358 704 ;
2507 704 104 ;
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2511 706 106 ;
2512 361 707 ;
2513 707 107 ;
2514 362 708 ;
2515 708 108 ;
2516 363 709 ;
2517 709 109 ;
2518 364 710 ;
2519 710 110 ;
2520 366 710 ;
2521 710 112 ;
2522 367 711 ;
2523 711 113 ;
2524 368 712 ;
2525 712 114 ;
2526 369 713 ;
2527 713 115 ;
2528 370 714 ;
2529 714 116 ;
2530 371 715 ;
2531 715 117 ;
2532 372 716 ;
2533 716 118 ;
2534 373 717 ;
2535 717 119 ;
2536 373 719 ;
2537 719 119 ;
2538 374 720 ;
2539 720 120 ;
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2541 721 121 ;
2542 376 722 ;
2543 722 122 ;
2544 377 723 ;
2545 723 123 ;
2546 378 724 ;
2547 724 124 ;
2548 379 725 ;
2549 725 125 ;
2550 380 726 ;
2551 726 126 ;
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2551 726 126 ;
*Upper sections of truss vertical members
3505 3000 128 ;
3512 3003 135 ;
3515 3005 138 ;
3525 3011 148 ;
3533 3015 156 ;
3534 3016 157 ;
3535 3017 3018 ;
4535 3018 158 ;
3545 3023 3024 ;
4545 3024 168 ;
3553 3029 176 ;
3554 3030 177 ;
3555 3031 3032 ;
4555 3032 178 ;
3567 3039 3040 ;
4567 3040 190 ;
3576 3045 199 ;
3577 3046 200 ;
3579 3048 3049 ;
4579 3049 202 ;
3595 3058 3059 ;
4595 3059 218 ;
3601 3063 224 ;
3609 3066 232 ;
3615 3070 3071 ;
4615 3071 238 ;
3631 3081 3082 ;
4631 3082 254 ;
3632 3083 382 ;
3639 3086 389 ;
3642 3088 392 ;
3652 3094 402 ;
3660 3098 410 ;
3661 3099 411 ;
3662 3100 3101 ;
4662 3101 412 ;
3672 3106 3107 ;
4672 3107 422 ;
3680 3112 430 ;
3681 3113 431 ;
3682 3114 3115 ;
4682 3115 432 ;
3694 3122 3123 ;
4694 3123 444 ;
3703 3128 453 ;
3704 3129 454 ;
3706 3131 3132 ;
4706 3132 456 ;
3722 3141 3142 ;
4722 3142 472 ;
3728 3146 478 ;
3736 3149 486 ;
3742 3153 3154 ;
4742 3154 492 ;
3758 3164 3165 ;
4758 3165 508 ;

*Sway Horizontal Members
5000 3000 5000 ;
5001 5000 3083 ;
5006 3003 5003 ;
5007 5003 3086 ;
5010 3005 5005 ;
5011 5005 3088 ;
5022 3011 5011 ;
5023 5011 3094 ;
5030 3015 5015 ;
5031 5015 3098 ;
5032 3016 5016 ;
5033 5016 3099 ;
5034 3017 5017 ;
5035 5017 3100 ;
5036 3018 5018 ;
5037 5018 3101 ;
5046 3023 5023 ;
5047 5023 3106 ;
5048 3024 5024 ;
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5048 3024 5024 ;
5049 5024 3107 ;
5058 3029 5029 ;
5059 5029 3112 ;
5060 3030 5030 ;
5061 5030 3113 ;
5062 3031 5031 ;
5063 5031 3114 ;
5064 3032 5032 ;
5065 5032 3115 ;
5078 3039 5039 ;
5079 5039 3122 ;
5080 3040 5040 ;
5081 5040 3123 ;
5090 3045 5045 ;
5091 5045 3128 ;
5092 3046 5046 ;
5093 5046 3129 ;
5096 3048 5048 ;
5097 5048 3131 ;
5098 3049 5049 ;
5099 5049 3132 ;
5116 3058 5058 ;
5117 5058 3141 ;
5118 3059 5059 ;
5119 5059 3142 ;
5126 3063 5063 ;
5127 5063 3146 ;
5132 3066 5066 ;
5133 5066 3149 ;
5140 3070 5070 ;
5141 5070 3153 ;
5142 3071 5071 ;
5143 5071 3154 ;
5162 3081 5081 ;
5163 5081 3164 ;
5164 3082 5082 ;
5165 5082 3165 ;
*Sway Diagonal Members - 5 BBB A BBB=Panel Point A=Member
50001 600 3000 ;
50002 600 3083 ;
50003 5000 128 ;
50004 5000 382 ;
50021 602 130 ;
50022 602 384 ;
50041 604 132 ;
50042 604 386 ;
50071 607 3003 ;
50072 607 3086 ;
50091 609 137 ;
50092 609 391 ;
50101 610 3005 ;
50102 610 3088 ;
50103 5005 138 ;
50104 5005 392 ;
50111 611 139 ;
50112 611 393 ;
50131 613 141 ;
50132 613 395 ;
50151 615 143 ;
50152 615 397 ;
50171 617 145 ;
50172 617 399 ;
50191 20 401 ;
50192 274 147 ;
50201 620 3011 ;
50202 620 3094 ;
50203 5011 148 ;
50204 5011 402 ;
50211 22 403 ;
50212 276 149 ;
50231 623 151 ;
50232 623 405 ;
50251 625 153 ;
50252 625 407 ;
50281 628 3015 ;
50282 628 3098 ;
50291 30 5016 ;
50292 284 5016 ;
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50292 284 5016 ;
50301 630 3017 ;
50302 630 3100 ;
50303 5017 3018 ;
50304 5017 3101 ;
50305 5018 158 ;
50306 5018 412 ;
50311 32 413 ;
50312 286 159 ;
50341 634 162 ;
50342 634 416 ;
50361 636 164 ;
50362 636 418 ;
50391 40 421 ;
50392 294 167 ;
50401 640 3023 ;
50402 640 3106 ;
50403 5023 3024 ;
50404 5023 3107 ;
50405 5024 168 ;
50406 5024 422 ;
50421 642 170 ;
50422 642 424 ;
50431 643 171 ;
50432 643 425 ;
50451 645 173 ;
50452 645 427 ;
50471 647 175 ;
50472 647 429 ;
50481 648 3029 ;
50482 648 3112 ;
50491 50 5030 ;
50492 304 5030 ;
50493 3030 431 ;
50494 3113 177 ;
50501 650 3031 ;
50502 650 3114 ;
50503 5031 3032 ;
50504 5031 3115 ;
50505 5032 178 ;
50506 5032 432 ;
50511 52 433 ;
50512 306 179 ;
50531 54 435 ;
50532 308 181 ;
50551 655 183 ;
50552 655 437 ;
50571 657 185 ;
50572 657 439 ;
50591 659 187 ;
50592 659 441 ;
50611 62 443 ;
50612 316 189 ;
50621 662 3039 ;
50622 662 3122 ;
50623 5039 3040 ;
50624 5039 3123 ;
50625 5040 190 ;
50626 5040 444 ;
50631 64 445 ;
50632 318 191 ;
50641 65 446 ;
50642 319 192 ;
50651 665 193 ;
50652 665 447 ;
50681 668 196 ;
50682 668 450 ;
50711 671 3045 ;
50712 671 3128 ;
50721 73 5046 ;
50722 327 5046 ;
50731 74 455 ;
50732 328 201 ;
50741 674 3048 ;
50742 674 3131 ;
50743 5048 3049 ;
50744 5048 3132 ;
50745 5049 202 ;
50746 5049 456 ;
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50746 5049 456 ;
50751 76 457 ;
50752 330 203 ;
50771 78 459 ;
50772 332 205 ;
50791 679 207 ;
50792 679 461 ;
50811 681 209 ;
50812 681 463 ;
50831 683 211 ;
50832 683 465 ;
50851 685 213 ;
50852 685 467 ;
50871 88 469 ;
50872 342 215 ;
50891 90 471 ;
50892 344 217 ;
50901 690 3058 ;
50902 690 3141 ;
50903 5058 3059 ;
50904 5058 3142 ;
50905 5059 218 ;
50906 5059 472 ;
50911 92 473 ;
50912 346 219 ;
50931 94 475 ;
50932 348 221 ;
50941 694 222 ;
50942 694 476 ;
50961 696 3063 ;
50962 696 3146 ;
50991 699 227 ;
50992 699 481 ;
51011 701 229 ;
51012 701 483 ;
51041 704 3066 ;
51042 704 3149 ;
51061 706 234 ;
51062 706 488 ;
51081 109 490 ;
51082 363 236 ;
51091 110 491 ;
51092 364 237 ;
51101 710 3070 ;
51102 710 3153 ;
51103 5070 3071 ;
51104 5070 3154 ;
51105 5071 238 ;
51106 5071 492 ;
51111 112 493 ;
51112 366 239 ;
51121 113 494 ;
51122 367 240 ;
51131 114 495 ;
51132 368 241 ;
51151 715 243 ;
51152 715 497 ;
51171 717 245 ;
51172 717 499 ;
51191 719 247 ;
51192 719 501 ;
51211 721 249 ;
51212 721 503 ;
51231 124 505 ;
51232 378 251 ;
51251 126 507 ;
51252 380 253 ;
51261 726 3081 ;
51262 726 3164 ;
51263 5081 3082 ;
51264 5081 3165 ;
51265 5082 254 ;
51266 5082 508 ;

*Lateral Bracing Longitudinal Members Including Wind Lock Tongues
6000 604 605 ;
6001 605 606 ;
6002 607 608 ;
6003 614 615 ;
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6003 614 615 ;
6004 615 616 ;
6005 624 625 ;
6006 625 626 ;
6007 628 5016 ;
6008 634 635 ;
6009 635 636 ;
6010 644 645 ;
6011 645 646 ;
6012 648 5030 ;
6013 655 656 ;
6014 656 657 ;
6015 667 668 ;
6016 668 669 ;
6017 671 5046 ;
6018 681 682 ;
6019 682 683 ;
6020 695 696 ;
6021 699 700 ;
6022 700 701 ;
6023 717 718 ;
6024 718 719 ;
*Stringers
600101 600001 600101 ;
600201 600101 600201 ;
600301 600201 600301 ;
600401 600301 600401 ;
600501 600401 600501 ;
600601 600501 600601 ;
600701 600601 600701 ;
600801 600701 600801 ;
600901 600801 600901 ;
601001 600901 601001 ;
601101 601001 601101 ;
601201 601101 601201 ;
601301 601201 601301 ;
601401 601301 601401 ;
601501 601401 601501 ;
601601 601501 601601 ;
601701 601601 601701 ;
601801 601701 601801 ;
601901 601801 601901 ;
602001 601901 602001 ;
602101 602001 602101 ;
602201 602101 602201 ;
602301 602201 602301 ;
602401 602301 602401 ;
602501 602401 602501 ;
602601 602501 602601 ;
602701 602601 602701 ;
602801 602701 602801 ;
602901 602801 602901 ;
603001 602901 603001 ;
603101 603001 603101 ;
603201 603101 603201 ;
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603501 603401 603501 ;
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603701 603601 603701 ;
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603901 603801 603901 ;
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604201 604101 604201 ;
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605101 605001 605101 ;
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605301 605201 605301 ;
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606201 606101 606201 ;
606301 606201 606301 ;
606401 606301 606401 ;
606501 606401 606501 ;
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607101 607001 607101 ;
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607401 607301 607401 ;
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609401 609301 609401 ;
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612001 611901 612001 ;
612101 612001 612101 ;
612201 612101 612201 ;
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601502 601402 601502 ;
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606202 606103 606202 ;
606302 606202 606302 ;
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610202 610102 610202 ;
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610702 610602 610702 ;
610802 610702 610802 ;
610902 610802 610902 ;
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611703 611603 611703 ;
611803 611703 611803 ;
611903 611803 611903 ;
612003 611903 612003 ;
612103 612003 612103 ;
612203 612103 612203 ;
600103 600003 600103 ;
600203 600103 600203 ;
600303 600203 600303 ;
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601403 601303 601403 ;
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604003 603903 604003 ;
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605103 605003 605104 ;
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605504 605404 605504 ;
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605704 605604 605704 ;
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606104 606004 606104 ;
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*1-126 South Truss Lower Chord
*127-252 South Truss Upper Chord
*253-378 North Truss Lower Chord
*379-504 North Truss Upper Chord
*505-631 South Truss Verticals
*632-758 North Truss Verticals
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*632-758 North Truss Verticals
*759-884 South Truss Diagonals
*885-1010 North Truss Diagonals
*Stringers A BBB CC A=Placeholder BBB=Stringer Bay CC=Stringer Line
**Cantilever Stringers at Panel Point 0
**Stringers
* Floorbeams A BBB CC A=Placeholder BBB=Floorbeam (0 to 126) CC=Section of FB (North to South)
*Lateral Bracing Horizontal Strut (2000-2253)
* Lateral Bracing Diagonal Members (2300-2553)
*Upper sections of truss vertical members
*Sway Horizontal Members
*Sway Diagonal Members - 5 BBB A BBB=Panel Point A=Member
*Lateral Bracing Longitudinal Members Including Wind Lock Tongues
START GROUP DEFINITION
MEMBER
*Stringers
*Bays with 14 Stringers
_s14 615001 TO 615014 -
600101 TO 600114 -
600201 TO 600214 -
600301 TO 600314 -
600401 TO 600414 -
600501 TO 600514 -
600601 TO 600614 -
600701 TO 600714 -
600801 TO 600814 -
600901 TO 600914 -
601001 TO 601014 -
601101 TO 601114 -
601201 TO 601214 -
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601401 TO 601414 -
601501 TO 601514 -
601601 TO 601614 -
601701 TO 601714 -
601801 TO 601814 -
601901 TO 601914 -
602001 TO 602014 -
602101 TO 602114 -
602201 TO 602214 -
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604101 TO 604114 -
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609401 TO 609414 -
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612101 TO 612114 -
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612601 TO 612614
*Bays with 15 Stringers
_s15 605201 TO 605215 -
605301 TO 605315 -
605401 TO 605415 -
605501 TO 605515 -
605901 TO 605915 -
606001 TO 606015 -
606101 TO 606115 -
611301 TO 611315 -
611401 TO 611415 -
611501 TO 611515 -
612201 TO 612215 -
612501 TO 612515

END GROUP DEFINITION
UNIT INCHES KIP
MEMBER PROPERTY AMERICAN
*South Truss Lower Chord
1 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
2 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
3 PRIS AX 61.3 IX 1 IY 6737.64 IZ 6644.81
4 PRIS AX 84.78 IX 1 IY 8852.95 IZ 8245.71
5 PRIS AX 96.5 IX 1 IY 9985.67 IZ 9512.67
6 PRIS AX 49 IX 1 IY 5447.64 IZ 5466.94
7 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
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7 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
8 PRIS AX 52.25 IX 1 IY 5932.86 IZ 5651.74
9 PRIS AX 77.55 IX 1 IY 9213.76 IZ 7564.84
10 PRIS AX 99.75 IX 1 IY 10446.4 IZ 9696.9
11 PRIS AX 99.75 IX 1 IY 10446.4 IZ 9696.9
12 PRIS AX 96.5 IX 1 IY 9985.67 IZ 9512.67
13 PRIS AX 90.05 IX 1 IY 9245.77 IZ 8970.31
14 PRIS AX 90.05 IX 1 IY 9245.77 IZ 8970.31
15 PRIS AX 93.25 IX 1 IY 9529.77 IZ 9328.35
16 PRIS AX 90 IX 1 IY 9078.68 IZ 9143.95
17 PRIS AX 73.28 IX 1 IY 8183.75 IZ 7775.78
18 PRIS AX 64.55 IX 1 IY 7222.86 IZ 6829
19 PRIS AX 64.55 IX 1 IY 7222.86 IZ 6829
20 PRIS AX 67.8 IX 1 IY 7713.06 IZ 7013.09
21 PRIS AX 67.8 IX 1 IY 7713.06 IZ 7013.09
22 PRIS AX 58.75 IX 1 IY 6918.25 IZ 6020.76
23 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
24 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
25 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
26 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
27 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
28 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
29 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
30 PRIS AX 48.92 IX 1 IY 5609.72 IZ 5085.97
31 PRIS AX 48.92 IX 1 IY 5609.72 IZ 5085.97
32 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
33 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
34 PRIS AX 62.77 IX 1 IY 6805.24 IZ 6880.09
35 PRIS AX 105.8 IX 1 IY 11129.9 IZ 9263.2
36 PRIS AX 105.8 IX 1 IY 11129.9 IZ 9263.2
37 PRIS AX 58.05 IX 1 IY 6257.38 IZ 6460.5
38 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
39 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
40 PRIS AX 48.92 IX 1 IY 5609.72 IZ 5085.97
41 PRIS AX 48.92 IX 1 IY 5609.72 IZ 5085.97
42 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
43 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
44 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
45 PRIS AX 52.56 IX 1 IY 5839.32 IZ 5958.87
46 PRIS AX 52.56 IX 1 IY 5839.32 IZ 5958.87
47 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
48 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
49 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
50 PRIS AX 49 IX 1 IY 5447.64 IZ 5466.94
51 PRIS AX 49 IX 1 IY 5447.64 IZ 5466.94
52 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
53 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
54 PRIS AX 53.05 IX 1 IY 5977.4 IZ 5580.08
55 PRIS AX 79.48 IX 1 IY 8454.22 IZ 7516.42
56 PRIS AX 140.8 IX 1 IY 14818.7 IZ 11027.9
57 PRIS AX 128.8 IX 1 IY 13648.4 IZ 10449.6
58 PRIS AX 72.23 IX 1 IY 7672.43 IZ 8164.37
59 PRIS AX 53.05 IX 1 IY 5977.4 IZ 5580.08
60 PRIS AX 53.05 IX 1 IY 5977.4 IZ 5580.08
61 PRIS AX 58.05 IX 1 IY 6257.38 IZ 6460.5
62 PRIS AX 64.55 IX 1 IY 7222.86 IZ 6829
63 PRIS AX 64.55 IX 1 IY 7222.86 IZ 6829
64 PRIS AX 52.17 IX 1 IY 6099.91 IZ 5273.17
65 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
66 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
67 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
68 PRIS AX 49 IX 1 IY 5447.64 IZ 5466.94
69 PRIS AX 49 IX 1 IY 5447.64 IZ 5466.94
70 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
71 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
72 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
73 PRIS AX 58.05 IX 1 IY 6257.38 IZ 6460.5
74 PRIS AX 64.56 IX 1 IY 7081.07 IZ 7016.64
75 PRIS AX 64.8 IX 1 IY 7239.08 IZ 9265.02
76 PRIS AX 57.55 IX 1 IY 6524.29 IZ 8215.53
77 PRIS AX 57.55 IX 1 IY 6524.29 IZ 8215.53
78 PRIS AX 64.8 IX 1 IY 7239.08 IZ 9265.02
79 PRIS AX 104.64 IX 1 IY 11077.1 IZ 13434.1
80 PRIS AX 137.25 IX 1 IY 15890.1 IZ 15959
81 PRIS AX 167.48 IX 1 IY 19144.1 IZ 18021.1
82 PRIS AX 182.7 IX 1 IY 20611.1 IZ 18629.6
83 PRIS AX 176.13 IX 1 IY 20190.5 IZ 18816.7
84 PRIS AX 137.25 IX 1 IY 15890.1 IZ 15959
85 PRIS AX 129.75 IX 1 IY 14741.5 IZ 15394.6

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86 PRIS AX 133.5 IX 1 IY 15312.9 IZ 15676.8
87 PRIS AX 142.45 IX 1 IY 16271.3 IZ 16933.6
88 PRIS AX 151.38 IX 1 IY 17229.9 IZ 18185
89 PRIS AX 172.38 IX 1 IY 19601.6 IZ 18534.5
90 PRIS AX 193.38 IX 1 IY 21728.2 IZ 19911.5
91 PRIS AX 244.48 IX 1 IY 26289.5 IZ 23066.8
92 PRIS AX 202.48 IX 1 IY 22645.2 IZ 20316
93 PRIS AX 151.38 IX 1 IY 17229.9 IZ 18185
94 PRIS AX 133.5 IX 1 IY 15312.9 IZ 15676.8
95 PRIS AX 99.75 IX 1 IY 10375.8 IZ 13134.1
96 PRIS AX 76.05 IX 1 IY 8935.94 IZ 10112.9
97 PRIS AX 45.42 IX 1 IY 5071.78 IZ 6531.2
98 PRIS AX 52.92 IX 1 IY 6185.8 IZ 7107.08
99 PRIS AX 85.28 IX 1 IY 9983.81 IZ 11433
100 PRIS AX 110.42 IX 1 IY 11711.7 IZ 14193.2
101 PRIS AX 114.17 IX 1 IY 12248.9 IZ 14475.8
102 PRIS AX 89.03 IX 1 IY 10566.8 IZ 11715.6
103 PRIS AX 52.92 IX 1 IY 6185.8 IZ 7107.08
104 PRIS AX 45.42 IX 1 IY 5071.78 IZ 6531.2
105 PRIS AX 61.05 IX 1 IY 6684.92 IZ 8982.07
106 PRIS AX 111 IX 1 IY 11970.6 IZ 13982.5
107 PRIS AX 144.48 IX 1 IY 16374.3 IZ 17417.8
108 PRIS AX 163.73 IX 1 IY 18561.1 IZ 17738.8
109 PRIS AX 179.88 IX 1 IY 20785.2 IZ 19098.9
110 PRIS AX 197.13 IX 1 IY 22317.1 IZ 20193.6
111 PRIS AX 204.13 IX 1 IY 22991.1 IZ 20652.3
112 PRIS AX 167.48 IX 1 IY 19144.1 IZ 18021.1
113 PRIS AX 155.13 IX 1 IY 17818.8 IZ 18467.6
114 PRIS AX 138.63 IX 1 IY 14561.9 IZ 15991.9
115 PRIS AX 132.31 IX 1 IY 13611.1 IZ 16505.9
116 PRIS AX 110.73 IX 1 IY 11386.1 IZ 14869.7
117 PRIS AX 114.48 IX 1 IY 11917.7 IZ 15153.3
118 PRIS AX 134.88 IX 1 IY 14030.3 IZ 15709.1
119 PRIS AX 158.88 IX 1 IY 18413.6 IZ 18750
120 PRIS AX 158.88 IX 1 IY 18413.6 IZ 18750
121 PRIS AX 148.81 IX 1 IY 17268 IZ 17489.7
122 PRIS AX 125.06 IX 1 IY 13107.3 IZ 14671.6
123 PRIS AX 89.73 IX 1 IY 9826.27 IZ 10934.4
124 PRIS AX 57.55 IX 1 IY 6524.29 IZ 8215.53
125 PRIS AX 52.92 IX 1 IY 6185.8 IZ 7107.08
126 PRIS AX 52.92 IX 1 IY 6185.8 IZ 7107.08
*South Truss Upper Chord
127 PRIS AX 45.67 IX 5565.03 IY 5124.50 IZ 4898.18 ;
128 PRIS AX 61.30 IX 5558.13 IY 6737.64 IZ 6644.81 ;
129 PRIS AX 96.50 IX 6618.13 IY 9985.67 IZ 9512.67 ;
130 PRIS AX 96.50 IX 6618.13 IY 9985.67 IZ 9512.67 ;
131 PRIS AX 84.78 IX 5805.55 IY 8852.95 IZ 8245.71 ;
132 PRIS AX 84.78 IX 5805.55 IY 8852.95 IZ 8245.71 ;
133 PRIS AX 58.05 IX 5565.03 IY 6257.38 IZ 6460.50 ;
134 PRIS AX 45.67 IX 5565.03 IY 5124.50 IZ 4898.18 ;
135 PRIS AX 47.17 IX 5558.13 IY 5243.84 IZ 5211.27 ;
136 PRIS AX 74.30 IX 5530.68 IY 8708.48 IZ 7380.99 ;
137 PRIS AX 88.48 IX 7347.03 IY 10148.55 IZ 9087.71 ;
138 PRIS AX 88.48 IX 7347.03 IY 10148.55 IZ 9087.71 ;
139 PRIS AX 91.73 IX 7338.00 IY 10658.90 IZ 9272.04 ;
140 PRIS AX 93.95 IX 8245.13 IY 10786.17 IZ 9669.20 ;
141 PRIS AX 91.73 IX 7338.00 IY 10658.90 IZ 9272.04 ;
142 PRIS AX 91.73 IX 7338.00 IY 10658.90 IZ 9272.04 ;
143 PRIS AX 85.25 IX 7347.03 IY 9811.71 IZ 8722.69 ;
144 PRIS AX 72.25 IX 7383.36 IY 7820.82 IZ 7983.77 ;
145 PRIS AX 61.30 IX 5558.13 IY 6737.64 IZ 6644.81 ;
146 PRIS AX 61.30 IX 5558.13 IY 6737.64 IZ 6644.81 ;
147 PRIS AX 49.00 IX 5558.13 IY 5447.64 IZ 5466.94 ;
148 PRIS AX 42.42 IX 5571.96 IY 4644.23 IZ 4709.67 ;
149 PRIS AX 42.42 IX 5571.96 IY 4644.23 IZ 4709.67 ;
150 PRIS AX 45.67 IX 5565.03 IY 5124.50 IZ 4898.18 ;
151 PRIS AX 52.17 IX 5551.24 IY 6099.91 IZ 5273.17 ;
152 PRIS AX 52.17 IX 5551.24 IY 6099.91 IZ 5273.17 ;
153 PRIS AX 52.17 IX 5551.24 IY 6099.91 IZ 5273.17 ;
154 PRIS AX 45.67 IX 5565.03 IY 5124.50 IZ 4898.18 ;
155 PRIS AX 42.42 IX 5571.96 IY 4644.23 IZ 4709.67 ;
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159 PRIS AX 63.52 IX 6476.45 IY 6864.91 IZ 7034.41 ;
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224 PRIS AX 93.00 IX 6128.02 IY 10122.01 IZ 11454.35 ;
225 PRIS AX 111.06 IX 15318.95 IY 11946.17 IZ 12637.54 ;
226 PRIS AX 121.00 IX 16002.28 IY 12901.30 IZ 13709.18 ;
227 PRIS AX 121.00 IX 16002.28 IY 12901.30 IZ 13709.18 ;
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237 PRIS AX 140.73 IX 10071.68 IY 15797.16 IZ 17135.10 ;
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240 PRIS AX 122.44 IX 16635.47 IY 14108.99 IZ 15516.27 ;
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244 PRIS AX 151.23 IX 20776.92 IY 17024.84 IZ 17310.55 ;
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248 PRIS AX 147.48 IX 19032.20 IY 16453.46 IZ 17027.95 ;
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250 PRIS AX 87.30 IX 6808.56 IY 10685.01 IZ 10959.65 ;
251 PRIS AX 61.05 IX 6863.41 IY 6684.92 IZ 8982.07 ;
252 PRIS AX 52.92 IX 6855.52 IY 6185.80 IZ 7107.08 ;


*North Truss Lower Chord
253 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
254 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
255 PRIS AX 61.3 IX 1 IY 6737.64 IZ 6644.81
256 PRIS AX 84.78 IX 1 IY 8852.95 IZ 8245.71
257 PRIS AX 96.5 IX 1 IY 9985.67 IZ 9512.67
258 PRIS AX 49 IX 1 IY 5447.64 IZ 5466.94
259 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
260 PRIS AX 52.25 IX 1 IY 5932.86 IZ 5651.74
261 PRIS AX 77.55 IX 1 IY 9213.76 IZ 7564.84
262 PRIS AX 99.75 IX 1 IY 10446.4 IZ 9696.9
263 PRIS AX 99.75 IX 1 IY 10446.4 IZ 9696.9
264 PRIS AX 96.5 IX 1 IY 9985.67 IZ 9512.67
265 PRIS AX 90.05 IX 1 IY 9245.77 IZ 8970.31
266 PRIS AX 90.05 IX 1 IY 9245.77 IZ 8970.31
267 PRIS AX 93.25 IX 1 IY 9529.77 IZ 9328.35
268 PRIS AX 90 IX 1 IY 9078.68 IZ 9143.95
269 PRIS AX 73.28 IX 1 IY 8183.75 IZ 7775.78
270 PRIS AX 64.55 IX 1 IY 7222.86 IZ 6829
271 PRIS AX 64.55 IX 1 IY 7222.86 IZ 6829
272 PRIS AX 67.8 IX 1 IY 7713.06 IZ 7013.09
273 PRIS AX 67.8 IX 1 IY 7713.06 IZ 7013.09
274 PRIS AX 58.75 IX 1 IY 6918.25 IZ 6020.76
275 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
276 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
277 PRIS AX 42.42 IX 1 IY 4644.23 IZ 4709.67
278 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
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281 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
282 PRIS AX 48.92 IX 1 IY 5609.72 IZ 5085.97
283 PRIS AX 48.92 IX 1 IY 5609.72 IZ 5085.97
284 PRIS AX 45.67 IX 1 IY 5124.5 IZ 4898.18
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287 PRIS AX 105.8 IX 1 IY 11129.9 IZ 9263.2
288 PRIS AX 105.8 IX 1 IY 11129.9 IZ 9263.2
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311 PRIS AX 69 IX 1 IY 7335.6 IZ 7798.66
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314 PRIS AX 61.3 IX 1 IY 6737.64 IZ 6644.81
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332 PRIS AX 137.25 IX 1 IY 15890.1 IZ 15959
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334 PRIS AX 182.7 IX 1 IY 20611.1 IZ 18629.6
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371 PRIS AX 158.88 IX 1 IY 18413.6 IZ 18750
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375 PRIS AX 89.73 IX 1 IY 9826.27 IZ 10934.4
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377 PRIS AX 52.92 IX 1 IY 6185.8 IZ 7107.08
378 PRIS AX 52.92 IX 1 IY 6185.8 IZ 7107.08
*North Truss Upper Chord
379 PRIS AX 45.67 IX 5565.03 IY 5124.50 IZ 4898.18 ;
380 PRIS AX 61.30 IX 5558.13 IY 6737.64 IZ 6644.81 ;
381 PRIS AX 96.50 IX 6618.13 IY 9985.67 IZ 9512.67 ;
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388 PRIS AX 74.30 IX 5530.68 IY 8708.48 IZ 7380.99 ;
389 PRIS AX 88.48 IX 7347.03 IY 10148.55 IZ 9087.71 ;
390 PRIS AX 88.48 IX 7347.03 IY 10148.55 IZ 9087.71 ;
391 PRIS AX 91.73 IX 7338.00 IY 10658.90 IZ 9272.04 ;
392 PRIS AX 93.95 IX 8245.13 IY 10786.17 IZ 9669.20 ;
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415 PRIS AX 86.80 IX 6618.13 IY 9116.10 IZ 8417.58 ;
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472 PRIS AX 97.23 IX 6113.68 IY 10895.06 IZ 11498.70 ;
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474 PRIS AX 45.42 IX 6871.31 IY 5071.78 IZ 6531.20 ;
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476 PRIS AX 93.00 IX 6128.02 IY 10122.01 IZ 11454.35 ;
477 PRIS AX 111.06 IX 15318.95 IY 11946.17 IZ 12637.54 ;
478 PRIS AX 118.56 IX 16351.95 IY 13014.95 IZ 13202.62 ;
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497 PRIS AX 151.23 IX 20776.92 IY 17024.84 IZ 17310.55 ;
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*South Truss Verticals
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627 PRIS AX 57.31 IX 1 IY 6603.2 IZ 2204.37
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*North Truss Verticals
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*South Truss Diagonals
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208904 TO 208912 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
209004 TO 209012 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
209104 TO 209112 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
209204 TO 209212 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
209304 TO 209312 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
209404 TO 209412 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
209504 TO 209512 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
209704 TO 209712 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
209804 TO 209812 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
209904 TO 209912 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
210004 TO 210012 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
210104 TO 210112 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
210204 TO 210212 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
210304 TO 210312 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
210404 TO 210412 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
210504 TO 210512 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
210604 TO 210612 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
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210604 TO 210612 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
210704 TO 210712 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
210804 TO 210812 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
210904 TO 210912 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
211004 TO 211012 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
211104 TO 211112 PRIS AX 66.13 IX 1 IY 344.62 IZ 48807
211205 TO 211213 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
211305 TO 211313 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
211405 TO 211413 PRIS AX 66.13 IX 1 IY 344.62 IZ 48807
211505 TO 211513 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
211605 TO 211613 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
211705 TO 211713 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
211805 TO 211813 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
211905 TO 211913 PRIS AX 66.13 IX 1 IY 344.62 IZ 48807
212005 TO 212013 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
212105 TO 212113 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
212205 TO 212213 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
212304 TO 212312 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
212404 TO 212412 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
212504 TO 212512 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.6
200704 TO 200712 TAPERED 57.5 0.375 57.5 13 1.5 13 1.5
201804 TO 201812 TAPERED 57.5 0.375 57.5 13 1.5 13 1.5
202804 TO 202812 TAPERED 57.5 0.375 57.5 13 1.5 13 1.5
203604 TO 203612 TAPERED 57.5 0.375 57.5 13 1.5 13 1.5
204804 TO 204812 TAPERED 57.5 0.375 57.5 12 1.5 12 1.5
207104 TO 207112 TAPERED 57.5 0.375 57.5 12 1.5 12 1.5
208304 TO 208312 TAPERED 62.875 0.375 62.875 13 1.5 13 1.5
209604 TO 209612 TAPERED 57.5 0.375 57.5 13 1.5 13 1.5
212603 TO 212611 TAPERED 57.5 0.375 57.5 12 1.5 12 1.5
*North Cantilever Floorbeams
200301 TO 200303 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
200401 TO 200403 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
200501 TO 200503 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
201001 TO 201003 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
201101 TO 201103 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
201201 TO 201203 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
201401 TO 201403 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
201701 TO 201703 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
202001 TO 202003 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
202201 TO 202203 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
203001 TO 203003 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
203201 TO 203203 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
203301 TO 203303 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
203501 TO 203503 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
203701 TO 203703 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
204001 TO 204003 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
204101 TO 204103 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
204301 TO 204303 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
204501 TO 204503 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
204701 TO 204703 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
204901 TO 204903 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
205001 TO 205003 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
205101 TO 205104 PRIS AX 45.5 IX 1 IY 201.4 IZ 15605
205201 TO 205204 PRIS AX 45.5 IX 1 IY 201.4 IZ 15605
205401 TO 205404 PRIS AX 50.81 IX 1 IY 242.8 IZ 17904.6
205501 TO 205504 PRIS AX 50.81 IX 1 IY 242.8 IZ 17904.6
205601 TO 205604 PRIS AX 50.81 IX 1 IY 242.8 IZ 17904.6
205801 TO 205804 PRIS AX 50.81 IX 1 IY 242.8 IZ 17904.6
205901 TO 205904 PRIS AX 50.81 IX 1 IY 242.8 IZ 17904.6
206101 TO 206104 PRIS AX 45.5 IX 1 IY 201.4 IZ 15605
206201 TO 206203 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
206701 TO 206703 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
206801 TO 206803 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
207201 TO 207203 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
207501 TO 207503 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
207601 TO 207603 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
207701 TO 207703 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
208801 TO 208803 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
209401 TO 209403 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
209801 TO 209803 PRIS AX 40.2 IX 1 IY 160.46 IZ 13485.3
209901 TO 209903 PRIS AX 40.2 IX 1 IY 160.46 IZ 13485.3
210201 TO 210203 PRIS AX 40.2 IX 1 IY 160.46 IZ 13485.3
210901 TO 210903 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
211201 TO 211204 PRIS AX 45.5 IX 1 IY 201.4 IZ 15605
211301 TO 211304 PRIS AX 45.5 IX 1 IY 201.4 IZ 15605
211501 TO 211504 PRIS AX 50.81 IX 1 IY 242.8 IZ 17904.6
211601 TO 211604 PRIS AX 50.81 IX 1 IY 242.8 IZ 17904.6
211701 TO 211704 PRIS AX 50.81 IX 1 IY 242.8 IZ 17904.6
211801 TO 211804 PRIS AX 50.81 IX 1 IY 242.8 IZ 17904.6
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211801 TO 211804 PRIS AX 50.81 IX 1 IY 242.8 IZ 17904.6
212001 TO 212004 PRIS AX 50.81 IX 1 IY 242.8 IZ 17904.6
212101 TO 212104 PRIS AX 45.5 IX 1 IY 201.4 IZ 15605
212201 TO 212204 PRIS AX 45.5 IX 1 IY 201.4 IZ 15605
212301 TO 212303 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
212401 TO 212403 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
212501 TO 212503 PRIS AX 40.35 IX 1 IY 160.46 IZ 13758.4
200001 TO 200003 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
200101 TO 200103 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
200201 TO 200203 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
200601 TO 200603 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
200701 TO 200703 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
200801 TO 200803 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
200901 TO 200903 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
201301 TO 201303 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75
201501 TO 201503 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
201601 TO 201603 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
201801 TO 201803 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
201901 TO 201903 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
202101 TO 202103 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
202301 TO 202303 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75
202401 TO 202403 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
202501 TO 202503 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
202601 TO 202603 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
202701 TO 202703 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
202801 TO 202803 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
202901 TO 202903 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
203101 TO 203103 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
203401 TO 203403 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
203601 TO 203603 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
203801 TO 203803 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
203901 TO 203903 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
204201 TO 204203 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75
204401 TO 204403 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
204601 TO 204603 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
204801 TO 204803 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
205301 TO 205304 TAPERED 44.5 0.375 44.5 13 1.25 13 1.25
205701 TO 205704 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75
206001 TO 206004 TAPERED 44.5 0.375 44.5 13 1.25 13 1.25
206301 TO 206303 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
206401 TO 206403 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
206501 TO 206503 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75
206601 TO 206603 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
206901 TO 206903 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
207001 TO 207003 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
207101 TO 207103 TAPERED 46.375 0.375 46.375 12.5 0.75 12.5 0.75
207301 TO 207303 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
207401 TO 207403 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
207801 TO 207803 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
207901 TO 207903 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75
208001 TO 208003 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
208101 TO 208103 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
208201 TO 208203 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
208301 TO 208303 TAPERED 50.875 0.375 50.875 13 0.75 13 0.75
208401 TO 208403 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
208501 TO 208503 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
208601 TO 208603 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
208701 TO 208703 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75
208901 TO 208903 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
209001 TO 209003 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
209101 TO 209103 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
209201 TO 209203 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
209301 TO 209303 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
209501 TO 209503 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
209601 TO 209603 TAPERED 45.375 0.375 45.375 13 1.25 13 1.25
209701 TO 209703 TAPERED 44.5625 0.375 44.5625 13 0.75 13 0.75
210001 TO 210003 TAPERED 44.625 0.375 44.625 13 0.75 13 0.75
210101 TO 210103 TAPERED 44.6563 0.375 44.6563 13 0.75 13 0.75
210301 TO 210303 TAPERED 44.7188 0.375 44.7188 13 0.75 13 0.75
210401 TO 210403 TAPERED 50.875 0.375 50.875 12.5 0.75 12.5 0.75
210501 TO 210503 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
210601 TO 210603 TAPERED 44.75 0.375 44.75 13 0.75 13 0.75
210701 TO 210703 TAPERED 44.8125 0.375 44.8125 13 0.75 13 0.75
210801 TO 210803 TAPERED 44.8125 0.375 44.8125 13 0.75 13 0.75
211001 TO 211003 TAPERED 44.8438 0.375 44.8438 13 0.75 13 0.75
211101 TO 211103 TAPERED 51.1875 0.375 51.1875 13 1.25 13 1.25
211401 TO 211404 TAPERED 50.25 0.375 50.25 13 1.25 13 1.25
211901 TO 211904 TAPERED 50.25 0.375 50.25 13 1.25 13 1.25
212601 212602 TAPERED 45.4688 0.375 45.4688 13 0.75 13 0.75
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212601 212602 TAPERED 45.4688 0.375 45.4688 13 0.75 13 0.75
*South Cantilever Floorbeams
200313 TO 200315 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
201213 TO 201215 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
201713 TO 201715 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
203313 TO 203315 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
203813 TO 203815 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
204313 TO 204315 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
204413 TO 204415 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
204613 TO 204615 PRIS AX 45.5 IX 1 IY 201.4 IZ 15605
204713 TO 204715 PRIS AX 45.5 IX 1 IY 201.4 IZ 15605
204913 TO 204915 PRIS AX 45.5 IX 1 IY 201.4 IZ 15605
205814 TO 205816 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
206613 TO 206615 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
207013 TO 207015 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
207513 TO 207515 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
207613 TO 207615 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
207813 TO 207815 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
208213 TO 208215 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
208713 TO 208715 PRIS AX 53.02 IX 1 IY 302.9 IZ 22983.8
209213 TO 209215 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
209913 TO 209915 PRIS AX 40.2 IX 1 IY 160.46 IZ 13485.3
210213 TO 210215 PRIS AX 40.2 IX 1 IY 160.46 IZ 13485.3
210513 TO 210515 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
211614 211615 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
211714 211715 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
211814 211815 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
212114 TO 212116 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
212214 TO 212216 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
212313 TO 212315 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
212413 TO 212416 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
212513 TO 212516 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.4
200013 TO 200015 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
200113 TO 200115 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
200213 TO 200215 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
200413 TO 200415 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
200513 TO 200515 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
200613 TO 200615 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
200713 TO 200715 TAPERED 46.375 0.375 46.375 12.5 0.75 12.5 0.75
200813 TO 200815 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
200913 TO 200915 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
201013 TO 201015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
201113 TO 201115 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
201313 TO 201315 TAPERED 50.875 0.375 50.875 12.5 0.75 12.5 0.75
201413 TO 201415 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
201513 TO 201515 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
201613 TO 201615 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
201813 TO 201815 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
201913 TO 201915 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
202013 TO 202015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
202113 TO 202115 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
202213 TO 202215 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
202313 TO 202315 TAPERED 50.875 0.375 50.875 12.5 0.75 12.5 0.75
202413 TO 202415 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
202513 TO 202515 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
202613 TO 202615 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
202713 TO 202715 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
202813 TO 202815 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
202913 TO 202915 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
203013 TO 203015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
203113 TO 203115 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
203213 TO 203215 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
203413 TO 203415 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
203513 TO 203515 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
203613 TO 203615 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
203713 TO 203715 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
203913 TO 203915 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
204013 TO 204015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
204113 TO 204115 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
204213 TO 204215 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75
204513 TO 204515 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
204813 TO 204815 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
205013 TO 205015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
205114 TO 205116 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
205214 TO 205216 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
205314 TO 205316 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
205414 TO 205416 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
205514 TO 205516 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
205614 205615 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
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205614 205615 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
205714 205715 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75
205914 TO 205916 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
206014 TO 206016 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
206114 TO 206116 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
206213 TO 206215 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
206313 TO 206315 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
206413 TO 206415 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
206513 TO 206515 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75
206713 TO 206715 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
206813 TO 206815 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
206913 TO 206915 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
207113 TO 207115 TAPERED 45.5 0.375 45.5 13 0.75 13 0.75
207213 TO 207215 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
207313 TO 207315 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
207413 TO 207415 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
207713 TO 207715 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
207913 TO 207915 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75
208013 TO 208015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
208113 TO 208115 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
208313 TO 208315 TAPERED 50.875 0.375 50.875 13 0.75 13 0.75
208413 TO 208415 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
208513 TO 208515 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
208613 TO 208615 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
208813 TO 208815 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
208913 TO 208915 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
209013 TO 209015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
209113 TO 209115 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
209313 TO 209315 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
209413 TO 209415 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
209513 TO 209515 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
209613 TO 209615 TAPERED 46.375 0.375 46.375 12.5 0.75 12.5 0.75
209713 TO 209715 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
209813 TO 209815 TAPERED 44.6563 0.375 44.6563 13 0.75 13 0.75
210013 TO 210015 TAPERED 44.625 0.375 44.625 13 0.75 13 0.75
210113 TO 210115 TAPERED 44.5938 0.375 44.5938 13 0.75 13 0.75
210313 TO 210315 TAPERED 44.5938 0.375 44.5938 13 0.75 13 0.75
210413 TO 210415 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75
210613 TO 210615 TAPERED 44.5313 0.375 44.5313 13 0.75 13 0.75
210713 TO 210715 TAPERED 44.5313 0.375 44.5313 13 0.75 13 0.75
210813 TO 210815 TAPERED 44.5313 0.375 44.5313 13 0.75 13 0.75
210913 TO 210915 TAPERED 44.5313 0.375 44.5313 13 0.75 13 0.75
211013 TO 211015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
211113 TO 211115 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75
211214 TO 211216 TAPERED 44.5313 0.375 44.5313 13 0.75 13 0.75
211314 TO 211316 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
211414 TO 211416 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75
211514 TO 211516 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75
211914 211915 TAPERED 50.875 0.375 50.875 12.5 0.75 12.5 0.75
212014 212015 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75
212612 TO 212615 TAPERED 45.0313 0.375 45.0313 13 0.75 13 0.75
*Lateral Bracing Horizontal Strut
2000 TABLE ST W24X103
2001 TABLE ST W24X103
2002 TABLE ST W14X43
2003 TABLE ST W14X43
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2014 TABLE ST W14X61
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2020 TABLE ST W24X103
2021 TABLE ST W24X103
2022 TABLE ST W14X43
2023 TABLE ST W14X43
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2026 TABLE ST W14X43
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2026 TABLE ST W14X43
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2097 TABLE ST W14X61
2098 TABLE ST W14X43
2099 TABLE ST W14X43
2100 TABLE ST W24X103
2101 TABLE ST W24X103
2102 TABLE ST W14X43
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2104 TABLE ST W14X43
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2111 TABLE ST W14X43
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2148 TABLE ST W24X103
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2165 TABLE ST W14X43
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2168 TABLE ST W14X43
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2170 TABLE ST W14X43
2171 TABLE ST W14X43
2172 TABLE ST W14X43
2173 TABLE ST W14X43
2174 TABLE ST W14X43
2175 TABLE ST W14X43
2176 TABLE ST W14X43
2177 TABLE ST W14X43
2178 TABLE ST W14X61
2179 TABLE ST W14X61
2180 TABLE ST W24X103
2181 TABLE ST W24X103
2182 TABLE ST W14X61

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2182 TABLE ST W14X61
2183 TABLE ST W14X61
2184 TABLE ST W14X43
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2201 TABLE ST W14X43
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2219 TABLE ST W14X43
2220 TABLE ST W24X103
2221 TABLE ST W24X103
2222 TABLE ST W14X61
2223 TABLE ST W14X61
2224 TABLE ST W14X43
2225 TABLE ST W14X43
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2240 TABLE ST W14X43
2241 TABLE ST W14X43
2242 TABLE ST W14X43
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2245 TABLE ST W14X43
2246 TABLE ST W14X43
2247 TABLE ST W14X43
2248 TABLE ST W14X43
2249 TABLE ST W14X43
2250 TABLE ST W14X43
2251 TABLE ST W14X43
2252 TABLE ST W24X103
2253 TABLE ST W24X103
*Lateral Bracing Diagonal Members
2300 TABLE ST W14X61
2301 TABLE ST W14X61
2302 TABLE ST W14X61
2303 TABLE ST W14X61
2304 TABLE ST W14X61
2305 TABLE ST W14X61
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2305 TABLE ST W14X61
2306 TABLE ST W14X61
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2318 TABLE ST W14X82
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2321 TABLE ST W14X82
2322 TABLE ST W14X61
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2383 TABLE ST W14X82
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2386 TABLE ST W14X61
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2400 TABLE ST W14X82
2401 TABLE ST W14X82
2402 TABLE ST W14X82
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2406 TABLE ST W14X61
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2442 TABLE ST W14X82
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2461 TABLE ST W14X61
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2461 TABLE ST W14X61
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2472 TABLE ST W14X61
2473 TABLE ST W14X61
2474 TABLE ST W14X82
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2481 TABLE ST W14X82
2482 TABLE ST W14X82
2483 TABLE ST W14X82
2484 TABLE ST W14X82
2485 TABLE ST W14X82
2486 TABLE ST W14X74
2487 TABLE ST W14X74
2488 TABLE ST W14X61
2489 TABLE ST W14X61
2490 TABLE ST W14X61
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2498 TABLE ST W14X61
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2500 TABLE ST W14X61
2501 TABLE ST W14X61
2502 TABLE ST W14X61
2503 TABLE ST W14X61
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2505 TABLE ST W14X61
2506 TABLE ST W14X61
2507 TABLE ST W14X61
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2512 TABLE ST W14X61
2513 TABLE ST W14X61
2514 TABLE ST W14X82
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2525 TABLE ST W14X82
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2535 TABLE ST W14X61
2536 TABLE ST W14X61
2537 TABLE ST W14X61
2538 TABLE ST W14X61
2539 TABLE ST W14X61

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2539 TABLE ST W14X61
2540 TABLE ST W14X61
2541 TABLE ST W14X61
2542 TABLE ST W14X61
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2544 TABLE ST W14X61
2545 TABLE ST W14X61
2546 TABLE ST W14X82
2547 TABLE ST W14X82
2548 TABLE ST W14X82
2549 TABLE ST W14X82
2550 TABLE ST W14X82
2551 TABLE ST W14X82
6000 TABLE ST W14X30
6001 TABLE ST W14X30
6002 TABLE ST W12X65
6003 TABLE ST W14X30
6004 TABLE ST W14X30
6005 TABLE ST W14X30
6006 TABLE ST W14X30
6007 TABLE ST W12X65
6008 TABLE ST W14X30
6009 TABLE ST W14X30
6010 TABLE ST W14X30
6011 TABLE ST W14X30
6012 TABLE ST W12X65
6013 TABLE ST W14X30
6014 TABLE ST W14X30
6015 TABLE ST W14X30
6016 TABLE ST W14X30
6017 TABLE ST W12X65
6018 TABLE ST W14X30
6019 TABLE ST W14X30
6020 TABLE ST W12X65
6021 TABLE ST W14X30
6022 TABLE ST W14X30
6023 TABLE ST W14X30
6024 TABLE ST W14X30
*Sway Bracing Section Properties (Horizontal Struts)
5000 TABLE ST W12X40
5001 TABLE ST W12X40
5006 TABLE ST W12X65
5007 TABLE ST W12X65
5010 TABLE ST W12X40
5011 TABLE ST W12X40
5022 TABLE ST W12X40
5023 TABLE ST W12X40
5030 TABLE ST W12X65
5031 TABLE ST W12X65
5032 TABLE ST W14X61
5033 TABLE ST W14X61
5034 TABLE ST W12X40
5035 TABLE ST W12X40
5036 TABLE ST W12X40
5037 TABLE ST W12X40
5046 TABLE ST W12X40
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5048 TABLE ST W12X40
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5058 TABLE ST W14X61
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5061 TABLE ST W14X61
5062 TABLE ST W12X53
5063 TABLE ST W12X53
5064 TABLE ST W12X53
5065 TABLE ST W12X53
5078 TABLE ST W12X53
5079 TABLE ST W12X53
5080 TABLE ST W12X53
5081 TABLE ST W12X53
5090 TABLE ST W14X61
5091 TABLE ST W14X61
5092 TABLE ST W14X61
5093 TABLE ST W14X61
5096 TABLE ST W12X53
5097 TABLE ST W12X53
5098 TABLE ST W12X53
5099 TABLE ST W12X53
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5099 TABLE ST W12X53
5116 TABLE ST W12X53
5117 TABLE ST W12X53
5118 TABLE ST W12X53
5119 TABLE ST W12X53
5126 TABLE ST W14X61
5127 TABLE ST W14X61
5132 TABLE ST W14X61
5133 TABLE ST W14X61
5140 TABLE ST W12X53
5141 TABLE ST W12X53
5142 TABLE ST W12X53
5143 TABLE ST W12X53
5162 TABLE ST W12X40
5163 TABLE ST W12X40
5164 TABLE ST W12X40
5165 TABLE ST W12X40
*Sway Bracing Section Properties (Diagonal Members)
50001 TABLE ST W12X53
50002 TABLE ST W12X53
50003 TABLE ST W12X53
50004 TABLE ST W12X53
50021 TABLE ST W12X53
50022 TABLE ST W12X53
50041 TABLE ST W12X53
50042 TABLE ST W12X53
50071 TABLE ST W12X53
50072 TABLE ST W12X53
50091 TABLE ST W12X65
50092 TABLE ST W12X65
50101 TABLE ST W12X53
50102 TABLE ST W12X53
50103 TABLE ST W12X53
50104 TABLE ST W12X53
50111 TABLE ST W12X65
50112 TABLE ST W12X65
50131 TABLE ST W12X53
50132 TABLE ST W12X53
50151 TABLE ST W12X53
50152 TABLE ST W12X53
50171 TABLE ST W12X53
50172 TABLE ST W12X53
50191 TABLE ST W12X26
50192 TABLE ST W12X26
50201 TABLE ST W12X53
50202 TABLE ST W12X53
50203 TABLE ST W12X53
50204 TABLE ST W12X53
50211 TABLE ST W12X26
50212 TABLE ST W12X26
50231 TABLE ST W12X53
50232 TABLE ST W12X53
50251 TABLE ST W12X53
50252 TABLE ST W12X53
50281 TABLE ST W12X65
50282 TABLE ST W12X65
50291 TABLE ST W12X53
50292 TABLE ST W12X53
50301 TABLE ST W12X53
50302 TABLE ST W12X53
50303 TABLE ST W12X53
50304 TABLE ST W12X53
50305 TABLE ST W12X53
50306 TABLE ST W12X53
50311 TABLE ST W12X26
50312 TABLE ST W12X26
50341 TABLE ST W12X53
50342 TABLE ST W12X53
50361 TABLE ST W12X53
50362 TABLE ST W12X53
50391 TABLE ST W12X26
50392 TABLE ST W12X26
50401 TABLE ST W12X53
50402 TABLE ST W12X53
50403 TABLE ST W12X53
50404 TABLE ST W12X53
50405 TABLE ST W12X53
50406 TABLE ST W12X53
50421 TABLE ST W12X65

50421 TABLE ST W12X65
50422 TABLE ST W12X65
50431 TABLE ST W12X53
50432 TABLE ST W12X53
50451 TABLE ST W12X53
50452 TABLE ST W12X53
50471 TABLE ST W14X61
50472 TABLE ST W14X61
50481 TABLE ST W12X65
50482 TABLE ST W12X65
50491 TABLE ST W12X53
50492 TABLE ST W12X53
50493 TABLE ST W12X40
50494 TABLE ST W12X40
50501 TABLE ST W12X65
50502 TABLE ST W12X65
50503 TABLE ST W12X65
50504 TABLE ST W12X65
50505 TABLE ST W12X65
50506 TABLE ST W12X65
50511 TABLE ST W12X40
50512 TABLE ST W12X40
50531 TABLE ST W12X40
50532 TABLE ST W12X40
50551 TABLE ST W12X53
50552 TABLE ST W12X53
50571 TABLE ST W12X53
50572 TABLE ST W12X53
50591 TABLE ST W12X65
50592 TABLE ST W12X65
50611 TABLE ST W12X40
50612 TABLE ST W12X40
50621 TABLE ST W12X65
50622 TABLE ST W12X65
50623 TABLE ST W12X65
50624 TABLE ST W12X65
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50626 TABLE ST W12X65
50631 TABLE ST W12X40
50632 TABLE ST W12X40
50641 TABLE ST W12X40
50642 TABLE ST W12X40
50651 TABLE ST W12X65
50652 TABLE ST W12X65
50681 TABLE ST W12X53
50682 TABLE ST W12X53
50711 TABLE ST W12X65
50712 TABLE ST W12X65
50721 TABLE ST W12X53
50722 TABLE ST W12X53
50731 TABLE ST W12X40
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50751 TABLE ST W12X40
50752 TABLE ST W12X40
50771 TABLE ST W12X40
50772 TABLE ST W12X40
50791 TABLE ST W12X53
50792 TABLE ST W12X53
50811 TABLE ST W12X53
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50831 TABLE ST W12X53
50832 TABLE ST W12X53
50851 TABLE ST W12X65
50852 TABLE ST W12X65
50871 TABLE ST W12X40
50872 TABLE ST W12X40
50891 TABLE ST W12X40
50892 TABLE ST W12X40
50901 TABLE ST W12X65
50902 TABLE ST W12X65
50903 TABLE ST W12X65
50904 TABLE ST W12X65
50905 TABLE ST W12X65

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50905 TABLE ST W12X65
50906 TABLE ST W12X65
50911 TABLE ST W12X40
50912 TABLE ST W12X40
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50932 TABLE ST W12X40
50941 TABLE ST W12X40
50942 TABLE ST W12X40
50961 TABLE ST W12X53
50962 TABLE ST W12X53
50991 TABLE ST W12X53
50992 TABLE ST W12X53
51011 TABLE ST W12X53
51012 TABLE ST W12X53
51041 TABLE ST W12X53
51042 TABLE ST W12X53
51061 TABLE ST W12X53
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*North Cantilever Floorbeams
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703801 TO 703803 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
703901 TO 703903 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
704201 TO 704203 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75 ;
704401 TO 704403 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
704601 TO 704603 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
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704601 TO 704603 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
704801 TO 704803 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75 ;
705301 TO 705304 TAPERED 44.5 0.375 44.5 13 1.25 13 1.25 ;
705701 TO 705704 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75 ;
706001 TO 706004 TAPERED 44.5 0.375 44.5 13 1.25 13 1.25 ;
706301 TO 706303 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
706401 TO 706403 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
706501 TO 706503 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75 ;
706601 TO 706603 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
706901 TO 706903 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
707001 TO 707003 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
707101 TO 707103 TAPERED 46.375 0.375 46.375 12.5 0.75 12.5 0.75 ;
707301 TO 707303 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
707401 TO 707403 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
707801 TO 707803 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
707901 TO 707903 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75 ;
708001 TO 708003 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
708101 TO 708103 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75 ;
708201 TO 708203 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75 ;
708301 TO 708303 TAPERED 50.875 0.375 50.875 13 0.75 13 0.75 ;
708401 TO 708403 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
708501 TO 708503 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75 ;
708601 TO 708603 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
708701 TO 708703 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75 ;
708901 TO 708903 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
709001 TO 709003 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
709101 TO 709103 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
709201 TO 709203 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
709301 TO 709303 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
709501 TO 709503 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
709601 TO 709603 TAPERED 45.375 0.375 45.375 13 1.25 13 1.25 ;
709701 TO 709703 TAPERED 44.5625 0.375 44.5625 13 0.75 13 0.75 ;
710001 TO 710003 TAPERED 44.625 0.375 44.625 13 0.75 13 0.75 ;
710101 TO 710103 TAPERED 44.65625 0.375 44.65625 13 0.75 13 0.75 ;
710301 TO 710303 TAPERED 44.71875 0.375 44.71875 13 0.75 13 0.75 ;
710401 TO 710403 TAPERED 50.875 0.375 50.875 12.5 0.75 12.5 0.75 ;
710501 TO 710503 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75 ;
710601 TO 710603 TAPERED 44.75 0.375 44.75 13 0.75 13 0.75 ;
710701 TO 710703 TAPERED 44.8125 0.375 44.8125 13 0.75 13 0.75 ;
710801 TO 710803 TAPERED 44.8125 0.375 44.8125 13 0.75 13 0.75 ;
711001 TO 711003 TAPERED 44.84375 0.375 44.84375 13 0.75 13 0.75 ;
711101 TO 711103 TAPERED 51.1875 0.375 51.1875 13 1.25 13 1.25 ;
711401 TO 711404 TAPERED 50.25 0.375 50.25 13 1.25 13 1.25 ;
711901 TO 711904 TAPERED 50.25 0.375 50.25 13 1.25 13 1.25 ;
712601 TO 712602 TAPERED 45.46875 0.375 45.46875 13 0.75 13 0.75 ;
*South Cantilever Floorbeams
700313 TO 700315 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
701213 TO 701215 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
701713 TO 701715 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
703313 TO 703315 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
703813 TO 703815 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
704313 TO 704315 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
704413 TO 704415 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
704613 TO 704615 PRIS AX 45.5 IX 1 IY 201.4 IZ 15605.01 ;
704713 TO 704715 PRIS AX 45.5 IX 1 IY 201.4 IZ 15605.01 ;
704913 TO 704915 PRIS AX 45.5 IX 1 IY 201.4 IZ 15605.01 ;
705814 TO 705816 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
706613 TO 706615 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
707013 TO 707015 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
707513 TO 707515 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
707613 TO 707615 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
707813 TO 707815 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
708213 TO 708215 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
708713 TO 708715 PRIS AX 53.02 IX 1 IY 302.9 IZ 22983.75 ;
709213 TO 709215 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
709913 TO 709915 PRIS AX 40.2 IX 1 IY 160.46 IZ 13485.25 ;
710213 TO 710215 PRIS AX 40.2 IX 1 IY 160.46 IZ 13485.25 ;
710513 TO 710515 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
711614 TO 711615 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
711714 TO 711715 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
711814 TO 711815 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
712114 TO 712116 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
712214 TO 712216 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
712313 TO 712315 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
712413 TO 712416 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
712513 TO 712516 PRIS AX 40.06 IX 1 IY 160.46 IZ 13229.37 ;
700013 TO 700015 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75 ;
700113 TO 700115 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
700213 TO 700215 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
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700213 TO 700215 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
700413 TO 700415 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
700513 TO 700515 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
700613 TO 700615 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
700713 TO 700715 TAPERED 46.375 0.375 46.375 12.5 0.75 12.5 0.75 ;
700813 TO 700815 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
700913 TO 700915 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
701013 TO 701015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
701113 TO 701115 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
701313 TO 701315 TAPERED 50.875 0.375 50.875 12.5 0.75 12.5 0.75 ;
701413 TO 701415 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
701513 TO 701515 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
701613 TO 701615 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
701813 TO 701815 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
701913 TO 701915 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
702013 TO 702015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
702113 TO 702115 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
702213 TO 702215 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
702313 TO 702315 TAPERED 50.875 0.375 50.875 12.5 0.75 12.5 0.75 ;
702413 TO 702415 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
702513 TO 702515 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
702613 TO 702615 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
702713 TO 702715 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
702813 TO 702815 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75 ;
702913 TO 702915 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
703013 TO 703015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
703113 TO 703115 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
703213 TO 703215 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
703413 TO 703415 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
703513 TO 703515 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
703613 TO 703615 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
703713 TO 703715 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
703913 TO 703915 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
704013 TO 704015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
704113 TO 704115 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
704213 TO 704215 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75 ;
704513 TO 704515 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
704813 TO 704815 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75 ;
705013 TO 705015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
705114 TO 705116 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
705214 TO 705216 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75 ;
705314 TO 705316 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
705414 TO 705416 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
705514 TO 705516 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
705614 TO 705615 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
705714 TO 705715 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75 ;
705914 TO 705916 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
706014 TO 706016 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
706114 TO 706116 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
706213 TO 706215 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
706313 TO 706315 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
706413 TO 706415 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75 ;
706513 TO 706515 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75 ;
706713 TO 706715 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
706813 TO 706815 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
706913 TO 706915 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75 ;
707113 TO 707115 TAPERED 45.5 0.375 45.5 13 0.75 13 0.75 ;
707213 TO 707215 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
707313 TO 707315 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
707413 TO 707415 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
707713 TO 707715 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
707913 TO 707915 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75 ;
708013 TO 708015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
708113 TO 708115 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
708313 TO 708315 TAPERED 50.875 0.375 50.875 13 0.75 13 0.75 ;
708413 TO 708415 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
708513 TO 708515 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
708613 TO 708615 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75 ;
708813 TO 708815 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
708913 TO 708915 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
709013 TO 709015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
709113 TO 709115 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
709313 TO 709315 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
709413 TO 709415 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
709513 TO 709515 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
709613 TO 709615 TAPERED 46.375 0.375 46.375 12.5 0.75 12.5 0.75 ;
709713 TO 709715 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75 ;
709813 TO 709815 TAPERED 44.65625 0.375 44.65625 13 0.75 13 0.75 ;
710013 TO 710015 TAPERED 44.625 0.375 44.625 13 0.75 13 0.75 ;
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710013 TO 710015 TAPERED 44.625 0.375 44.625 13 0.75 13 0.75 ;
710113 TO 710115 TAPERED 44.59375 0.375 44.59375 13 0.75 13 0.75 ;
710313 TO 710315 TAPERED 44.59375 0.375 44.59375 13 0.75 13 0.75 ;
710413 TO 710415 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75 ;
710613 TO 710615 TAPERED 44.53125 0.375 44.53125 13 0.75 13 0.75 ;
710713 TO 710715 TAPERED 44.53125 0.375 44.53125 13 0.75 13 0.75 ;
710813 TO 710815 TAPERED 44.53125 0.375 44.53125 13 0.75 13 0.75 ;
710913 TO 710915 TAPERED 44.53125 0.375 44.53125 13 0.75 13 0.75 ;
711013 TO 711015 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
711113 TO 711115 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75 ;
711214 TO 711216 TAPERED 44.53125 0.375 44.53125 13 0.75 13 0.75 ;
711314 TO 711316 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
711414 TO 711416 TAPERED 49.875 0.375 49.875 13 0.75 13 0.75 ;
711514 TO 711516 TAPERED 44.5 0.375 44.5 13 0.75 13 0.75 ;
711914 TO 711915 TAPERED 50.875 0.375 50.875 12.5 0.75 12.5 0.75 ;
712014 TO 712015 TAPERED 45.5 0.375 45.5 12.5 0.75 12.5 0.75 ;
712612 TO 712615 TAPERED 45.03125 0.375 45.03125 13 0.75 13 0.75 ;
*Floorbeams
700004 TO 700012 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
700104 TO 700112 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
700204 TO 700212 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
700304 TO 700312 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
700404 TO 700412 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
700504 TO 700512 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
700604 TO 700612 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
700804 TO 700812 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
700904 TO 700912 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
701004 TO 701012 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
701104 TO 701112 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
701204 TO 701212 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
701304 TO 701312 PRIS AX 58.31 IX 1 IY 242.89 IZ 41275.68 ;
701404 TO 701412 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
701504 TO 701512 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
701604 TO 701612 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
701704 TO 701712 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
701904 TO 701912 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
702004 TO 702012 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
702104 TO 702112 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
702204 TO 702212 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
702304 TO 702312 PRIS AX 66.13 IX 1 IY 344.62 IZ 48807.02 ;
702404 TO 702412 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
702504 TO 702512 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
702604 TO 702612 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
702704 TO 702712 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
702904 TO 702912 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
703004 TO 703012 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
703104 TO 703112 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
703204 TO 703212 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
703304 TO 703312 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
703404 TO 703412 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
703504 TO 703512 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
703704 TO 703712 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
703804 TO 703812 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
703904 TO 703912 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
704004 TO 704012 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
704104 TO 704112 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
704204 TO 704212 PRIS AX 58.31 IX 1 IY 242.89 IZ 41275.68 ;
704304 TO 704312 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
704404 TO 704412 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
704504 TO 704512 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
704604 TO 704612 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
704704 TO 704712 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
704904 TO 704912 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
705004 TO 705012 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
705105 TO 705113 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
705205 TO 705213 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
705305 TO 705313 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
705405 TO 705413 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
705505 TO 705513 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
705605 TO 705613 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
705705 TO 705713 PRIS AX 64.06 IX 1 IY 344.59 IZ 40052.9 ;
705805 TO 705813 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
705905 TO 705913 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
706005 TO 706013 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
706105 TO 706113 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
706204 TO 706212 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
706304 TO 706312 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
706404 TO 706412 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
706504 TO 706512 PRIS AX 66.13 IX 1 IY 344.62 IZ 48807.02 ;
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706504 TO 706512 PRIS AX 66.13 IX 1 IY 344.62 IZ 48807.02 ;
706604 TO 706612 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
706704 TO 706712 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
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706904 TO 706912 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
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707204 TO 707212 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
707304 TO 707312 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
707404 TO 707412 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
707504 TO 707512 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
707604 TO 707612 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
707704 TO 707712 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
707804 TO 707812 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
707904 TO 707912 PRIS AX 66.13 IX 1 IY 344.62 IZ 48807.02 ;
708004 TO 708012 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
708104 TO 708112 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
708204 TO 708212 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
708404 TO 708412 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
708504 TO 708512 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
708604 TO 708612 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
708704 TO 708712 PRIS AX 66.13 IX 1 IY 344.62 IZ 48807.02 ;
708804 TO 708812 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
708904 TO 708912 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
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709104 TO 709112 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
709204 TO 709212 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
709304 TO 709312 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
709404 TO 709412 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
709504 TO 709512 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
709704 TO 709712 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
709804 TO 709812 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
709904 TO 709912 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
710004 TO 710012 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
710104 TO 710112 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
710204 TO 710212 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
710304 TO 710312 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
710404 TO 710412 PRIS AX 66.13 IX 1 IY 344.62 IZ 48807.02 ;
710504 TO 710512 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
710604 TO 710612 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
710704 TO 710712 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
710804 TO 710812 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
710904 TO 710912 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
711004 TO 711012 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
711104 TO 711112 PRIS AX 66.13 IX 1 IY 344.62 IZ 48807.02 ;
711205 TO 711213 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
711305 TO 711313 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
711405 TO 711413 PRIS AX 66.13 IX 1 IY 344.62 IZ 48807.02 ;
711505 TO 711513 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
711605 TO 711613 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
711705 TO 711713 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
711805 TO 711813 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
711905 TO 711913 PRIS AX 66.13 IX 1 IY 344.62 IZ 48807.02 ;
712005 TO 712013 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
712105 TO 712113 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
712205 TO 712213 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
712304 TO 712312 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
712404 TO 712412 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
712504 TO 712512 PRIS AX 56.25 IX 1 IY 242.87 IZ 33749.58 ;
700704 TO 700712 TAPPERED 57.5 0.375 57.5 13 1.5 13 1.5 ;
701804 TO 701812 TAPPERED 57.5 0.375 57.5 13 1.5 13 1.5 ;
702804 TO 702812 TAPPERED 57.5 0.375 57.5 13 1.5 13 1.5 ;
703604 TO 703612 TAPPERED 57.5 0.375 57.5 13 1.5 13 1.5 ;
704804 TO 704812 TAPPERED 57.5 0.375 57.5 12 1.5 12 1.5 ;
707104 TO 707112 TAPPERED 57.5 0.375 57.5 12 1.5 12 1.5 ;
708304 TO 708312 TAPPERED 62.875 0.375 62.875 13 1.5 13 1.5 ;
709604 TO 709612 TAPPERED 57.5 0.375 57.5 13 1.5 13 1.5 ;
712603 TO 712611 TAPPERED 57.5 0.375 57.5 12 1.5 12 1.5 ;


DEFINE MATERIAL START
ISOTROPIC STEEL
E 29000
POISSON 0.3
DENSITY 0.000283
ALPHA 6e-006
DAMP 0.03
TYPE STEEL
STRENGTH FY 36 FU 58 RY 1.5 RT 1.2
END DEFINE MATERIAL
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END DEFINE MATERIAL
CONSTANTS
MATERIAL STEEL ALL
MEMBER RELEASE
*Release BOTH MY MZ
**Truss Members and Bracing excluded from this are verticals that are divided, all horizontal struts, and wind lo
cks
*1-126 South Truss Lower Chord
1 TO 6 8 TO 23 25 TO 27 29 TO 42 44 TO 47 49 TO 65 67 TO 70 72 TO 96 -
98 TO 103 105 TO 126 BOTH MY MZ
*127-252 South Truss Upper Chord
127 TO 133 135 TO 154 156 TO 174 176 TO 197 199 TO 221 223 TO 252 BOTH MY MZ
*253-378 North Truss Lower Chord
253 TO 258 260 TO 275 277 TO 279 281 TO 294 296 TO 299 301 TO 317 319 TO 322 -
324 TO 348 350 TO 355 357 TO 378 BOTH MY MZ
*379-504 North Truss Upper Chord
379 TO 385 387 TO 406 408 TO 426 428 TO 449 451 TO 473 475 TO 504 BOTH MY MZ
*759-884 South Truss Diagonals
759 TO 884 BOTH MY MZ
*885-1010 North Truss Diagonals
885 TO 1010 BOTH MY MZ
*South Truss Verticals
506 TO 511 513 514 516 TO 524 526 TO 532 536 TO 544 546 TO 552 556 TO 566 -
568 TO 575 578 580 TO 594 596 TO 600 602 TO 608 610 TO 614 616 TO 629 -
630 BOTH MY MZ
*North Truss Verticals
633 TO 638 640 641 643 TO 651 653 TO 659 663 TO 671 673 TO 679 683 TO 693 -
695 TO 702 705 707 TO 721 723 TO 727 729 TO 735 737 TO 741 743 TO 756 -
757 BOTH MY MZ
*Lateral Bracing Diagonal Members (2300 - 2551)
2300 TO 2551 BOTH MY MZ
*Lateral Bracing Longitudinal Members excluding Wind Locks
6000 6001 6003 TO 6006 6008 TO 6011 6013 TO 6016 6018 6019 6021 TO 6023 -
6024 BOTH MY MZ
*Diagonal Sway Bracing
50001 TO 50004 50021 50022 50041 50042 50071 50072 50091 50092 50101 TO 50104 -
50111 50112 50131 50132 50151 50152 50171 50172 50191 50192 50201 TO 50204 -
50211 50212 50231 50232 50251 50252 50281 50282 50291 50292 50301 TO 50306 -
50311 50312 50341 50342 50361 50362 50391 50392 50401 TO 50406 50421 50422 -
50431 50432 50451 50452 50471 50472 50481 50482 50491 TO 50494 -
50501 TO 50506 50511 50512 50531 50532 50551 50552 50571 50572 50591 50592 -
50611 50612 50621 TO 50626 50631 50632 50641 50642 50651 50652 50681 50682 -
50711 50712 50721 50722 50731 50732 50741 TO 50746 50751 50752 50771 50772 -
50791 50792 50811 50812 50831 50832 50851 50852 50871 50872 50891 50892 -
50901 TO 50906 50911 50912 50931 50932 50941 50942 50961 50962 50991 50992 -
51011 51012 51041 51042 51061 51062 51081 51082 51091 51092 51101 TO 51106 -
51111 51112 51121 51122 51131 51132 51151 51152 51171 51172 51191 51192 -
51211 51212 51231 51232 51251 51252 51261 TO 51266 BOTH MY MZ
*Release Lateral Bracing Wind Lock
6002 6007 6012 6017 START FX MY MZ
6020 END FX MY MZ
*Upper/Lower Chord Truss Members with FX Released
24 43 66 97 134 155 175 198 276 295 318 349 386 407 427 450 START FX MY MZ
24 43 66 97 134 155 175 198 276 295 318 349 386 407 427 450 END MY MZ
7 28 48 71 104 222 259 280 300 323 356 474 END FX MY MZ
7 28 48 71 104 222 259 280 300 323 356 474 START MY MZ
*South Truss Verticals Divided for Sway Bracing
505 START MY MZ
3505 END MY MZ
512 START MY MZ
3512 END MY MZ
515 START MY MZ
3515 END MY MZ
525 START MY MZ
3525 END MY MZ
533 START MY MZ
3533 END MY MZ
534 START MY MZ
3534 END MY MZ
535 START MY MZ
4535 END MY MZ
545 START MY MZ
4545 END MY MZ
553 START MY MZ
3553 END MY MZ
554 START MY MZ
3554 END MY MZ
555 START MY MZ
4555 END MY MZ
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567 START MY MZ
4567 END MY MZ
576 START MY MZ
3576 END MY MZ
577 START MY MZ
3577 END MY MZ
579 START MY MZ
4579 END MY MZ
595 START MY MZ
4595 END MY MZ
601 START MY MZ
3601 END MY MZ
609 START MY MZ
3609 END MY MZ
615 START MY MZ
4615 END MY MZ
631 START MY MZ
4631 END MY MZ
*North Truss Verticals Divided for Sway Bracing
632 START MY MZ
3632 END MY MZ
639 START MY MZ
3639 END MY MZ
642 START MY MZ
3642 END MY MZ
652 START MY MZ
3652 END MY MZ
660 START MY MZ
3660 END MY MZ
661 START MY MZ
3661 END MY MZ
662 START MY MZ
4662 END MY MZ
672 START MY MZ
4672 END MY MZ
680 START MY MZ
3680 END MY MZ
681 START MY MZ
3681 END MY MZ
682 START MY MZ
4682 END MY MZ
694 START MY MZ
4694 END MY MZ
703 START MY MZ
3703 END MY MZ
704 START MY MZ
3704 END MY MZ
706 START MY MZ
4706 END MY MZ
722 START MY MZ
4722 END MY MZ
728 START MY MZ
3728 END MY MZ
736 START MY MZ
3736 END MY MZ
742 START MY MZ
4742 END MY MZ
758 START MY MZ
4758 END MY MZ
*North Lateral Bracing Horizontal Struts Members
2000 2002 2004 2006 2008 2010 2012 2014 2016 2018 2020 2022 2024 2026 2028 -
2030 2032 2034 2036 2038 2040 2042 2044 2046 2048 2050 2052 2054 2056 2058 -
2060 2062 2064 2066 2068 2070 2072 2074 2076 2078 2080 2082 2084 2086 2088 -
2090 2092 2094 2096 2098 2100 2102 2104 2106 2108 2110 2112 2114 2116 2118 -
2120 2122 2124 2126 2128 2130 2132 2134 2136 2138 2140 2142 2144 2146 2148 -
2150 2152 2154 2156 2158 2160 2162 2164 2166 2168 2170 2172 2174 2176 2178 -
2180 2182 2184 2186 2188 2190 2192 2194 2196 2198 2200 2202 2204 2206 2208 -
2210 2212 2214 2216 2218 2220 2222 2224 2226 2228 2230 2232 2234 2236 2238 -
2240 2242 2244 2246 2248 2250 2252 START MY MZ
*South Lateral Bracing Horizontal Struts Members
2001 2003 2005 2007 2009 2011 2013 2015 2017 2019 2021 2023 2025 2027 2029 -
2031 2033 2035 2037 2039 2041 2043 2045 2047 2049 2051 2053 2055 2057 2059 -
2061 2063 2065 2067 2069 2071 2073 2075 2077 2079 2081 2083 2085 2087 2089 -
2091 2093 2095 2097 2099 2101 2103 2105 2107 2109 2111 2113 2115 2117 2119 -
2121 2123 2125 2127 2129 2131 2133 2135 2137 2139 2141 2143 2145 2147 2149 -
2151 2153 2155 2157 2159 2161 2163 2165 2167 2169 2171 2173 2175 2177 2179 -
2181 2183 2185 2187 2189 2191 2193 2195 2197 2199 2201 2203 2205 2207 2209 -
2211 2213 2215 2217 2219 2221 2223 2225 2227 2229 2231 2233 2235 2237 2239 -
2241 2243 2245 2247 2249 2251 2253 END MY MZ
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2241 2243 2245 2247 2249 2251 2253 END MY MZ
*South Horizontal Sway Bracing Members
5000 5006 5010 5022 5030 5032 5034 5036 5046 5048 5058 5060 5062 5064 5078 -
5080 5090 5092 5096 5098 5116 5118 5126 5132 5140 5142 5162 -
5164 START MY MZ
*North Horizontal Sway Bracing Members
5001 5007 5011 5023 5031 5033 5035 5037 5047 5049 5059 5061 5063 5065 5079 -
5081 5091 5093 5097 5099 5117 5119 5127 5133 5141 5143 5163 5165 END MY MZ

*Stringers
100101 START MZ
100201 START MZ
100301 START MZ
100401 START MZ
100501 START MZ
100601 START MZ
100701 START MZ
100801 START MZ
100901 START MZ
101001 START MZ
101101 START MZ
101201 START MZ
101301 START MZ
101401 START MZ
101501 START MZ
101601 START MZ
101701 START MZ
101801 START MZ
101901 START MZ
102001 START MZ
102101 START MZ
102201 START MZ
102301 START MZ
102401 START MZ
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102601 START MZ
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102901 START MZ
103001 START MZ
103101 START MZ
103201 START MZ
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104001 START MZ
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104201 START MZ
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105001 START MZ
105101 START MZ
105201 START MZ
105301 START MZ
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105801 START MZ
105901 START MZ
106001 START MZ
106101 START MZ
106201 START MZ
106301 START MZ
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106801 START MZ
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107001 START MZ
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107201 START MZ
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108001 START MZ
108101 START MZ
108201 START MZ
108301 START MZ
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108601 START MZ
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109001 START MZ
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110001 START MZ
110101 START MZ
110201 START MZ
110301 START MZ
110401 START MZ
110501 START MZ
110601 START MZ
110701 START MZ
110801 START MZ
110901 START MZ
111001 START MZ
111101 START MZ
111201 START MZ
111301 START MZ
111401 START MZ
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111601 START MZ
111701 START MZ
111801 START MZ
111901 START MZ
112001 START MZ
112101 START MZ
112201 START MZ
112301 START MZ
112401 START MZ
112501 START MZ
112601 START MZ
100114 START MZ
100214 START MZ
100314 START MZ
100414 START MZ
100514 START MZ
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100814 START MZ
100914 START MZ
101014 START MZ
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102014 START MZ
102114 START MZ
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104014 START MZ
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105014 START MZ
105114 START MZ
105215 START MZ
105315 START MZ
105415 START MZ
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105614 START MZ
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105814 START MZ
105915 START MZ
106015 START MZ
106115 START MZ
106214 START MZ
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106714 START MZ
106814 START MZ
106914 START MZ
107014 START MZ
107114 START MZ
107214 START MZ
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110114 START MZ
110214 START MZ
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110714 START MZ
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111014 START MZ
111114 START MZ
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111614 START MZ
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111814 START MZ
111914 START MZ
112014 START MZ
112114 START MZ
112215 START MZ
112314 START MZ
112414 START MZ
112515 START MZ
112614 START MZ
100101 END MZ FX
100201 END MZ FX
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100214 END MZ FX
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108014 END MZ FX
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110814 END MZ FX
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111315 END MZ FX
111415 END MZ FX
111515 END MZ FX
111614 END MZ FX
111714 END MZ FX
111814 END MZ FX
111914 END MZ FX
112014 END MZ FX
112114 END MZ FX
112215 END MZ FX
112314 END MZ FX
112414 END MZ FX
112515 END MZ FX
112614 END MZ FX



*Floorbeams
200001 START MZ
200101 START MZ
200201 START MZ
200301 START MZ
200401 START MZ
200501 START MZ
200601 START MZ
200701 START MZ
200801 START MZ
200901 START MZ
201001 START MZ
201101 START MZ
201201 START MZ
201301 START MZ
201401 START MZ
201501 START MZ
201601 START MZ
201701 START MZ
201801 START MZ
201901 START MZ
202001 START MZ
202101 START MZ
202201 START MZ
202301 START MZ
202401 START MZ
202501 START MZ
202601 START MZ
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202601 START MZ
202701 START MZ
202801 START MZ
202901 START MZ
203001 START MZ
203101 START MZ
203201 START MZ
203301 START MZ
203401 START MZ
203501 START MZ
203601 START MZ
203701 START MZ
203801 START MZ
203901 START MZ
204001 START MZ
204101 START MZ
204201 START MZ
204301 START MZ
204401 START MZ
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204601 START MZ
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204801 START MZ
204901 START MZ
205001 START MZ
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205116 END MZ
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212615 END MZ

**Fictitious Deck Releases
*Stringers
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600401 TO 600414 START MZ
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608001 TO 608014 START MZ
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608201 TO 608214 START MZ
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612301 TO 612314 START MZ
612401 TO 612414 START MZ
612501 TO 612515 START MZ
612601 TO 612614 START MZ

**Cantilever Floorbeams and the Fascia
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703001 START MZ
703101 START MZ
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612201 TO 612215 END MZ FX
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612401 TO 612414 END MZ FX
612501 TO 612515 END MZ FX
612601 TO 612614 END MZ FX

SUPPORTS
1 21 41 63 91 111 255 275 295 317 345 365 FIXED BUT MZ
*Next Pier Node Coordinates
51 INC REFJT 63 FIXED BUT FX MZ
75 INC REFJT 91 FIXED BUT FX MZ
127 INC REFJT 111 FIXED BUT FX MZ
305 INC REFJT 317 FIXED BUT FX MZ
329 INC REFJT 345 FIXED BUT FX MZ
381 INC REFJT 365 FIXED BUT FX MZ
11 31 265 285 FIXED BUT FX MZ

 **Master Slave Relationships
SLAVE FY MASTER 600001 JOINT 100001
SLAVE FY MASTER 600101 JOINT 100101
SLAVE FY MASTER 600201 JOINT 100201
SLAVE FY MASTER 600301 JOINT 100301
SLAVE FY MASTER 600401 JOINT 100401
SLAVE FY MASTER 600501 JOINT 100501
SLAVE FY MASTER 600601 JOINT 100601
SLAVE FY MASTER 600701 JOINT 100701
SLAVE FY MASTER 600801 JOINT 100801
SLAVE FY MASTER 600901 JOINT 100901
SLAVE FY MASTER 601001 JOINT 101001
SLAVE FY MASTER 601101 JOINT 101101
SLAVE FY MASTER 601201 JOINT 101201
SLAVE FY MASTER 601301 JOINT 101301
SLAVE FY MASTER 601401 JOINT 101401
SLAVE FY MASTER 601501 JOINT 101501
SLAVE FY MASTER 601601 JOINT 101601
SLAVE FY MASTER 601701 JOINT 101701
SLAVE FY MASTER 601801 JOINT 101801
SLAVE FY MASTER 601901 JOINT 101901
SLAVE FY MASTER 602001 JOINT 102001
SLAVE FY MASTER 602101 JOINT 102101
SLAVE FY MASTER 602201 JOINT 102201
SLAVE FY MASTER 602301 JOINT 102301
SLAVE FY MASTER 602401 JOINT 102401
SLAVE FY MASTER 602501 JOINT 102501
SLAVE FY MASTER 602601 JOINT 102601
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SLAVE FY MASTER 602901 JOINT 102901
SLAVE FY MASTER 603001 JOINT 103001
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SLAVE FY MASTER 603301 JOINT 103301
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SLAVE FY MASTER 603901 JOINT 103901
SLAVE FY MASTER 604001 JOINT 104001
SLAVE FY MASTER 604101 JOINT 104101
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SLAVE FY MASTER 604401 JOINT 104401
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SLAVE FY MASTER 605301 JOINT 105301
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SLAVE FY MASTER 605801 JOINT 105801
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SLAVE FY MASTER 607801 JOINT 107801
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SLAVE FY MASTER 608101 JOINT 108101
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SLAVE FY MASTER 607114 JOINT 107114
SLAVE FY MASTER 607214 JOINT 107214
SLAVE FY MASTER 607314 JOINT 107314
SLAVE FY MASTER 607414 JOINT 107414
SLAVE FY MASTER 607514 JOINT 107514
SLAVE FY MASTER 607614 JOINT 107614
SLAVE FY MASTER 607714 JOINT 107714
SLAVE FY MASTER 607814 JOINT 107814
SLAVE FY MASTER 607914 JOINT 107914
SLAVE FY MASTER 608014 JOINT 108014
SLAVE FY MASTER 608114 JOINT 108114
SLAVE FY MASTER 608214 JOINT 108214
SLAVE FY MASTER 608314 JOINT 108314
SLAVE FY MASTER 608414 JOINT 108414
SLAVE FY MASTER 608514 JOINT 108514
SLAVE FY MASTER 608614 JOINT 108614
SLAVE FY MASTER 608714 JOINT 108714
SLAVE FY MASTER 608814 JOINT 108814
SLAVE FY MASTER 608914 JOINT 108914
SLAVE FY MASTER 609014 JOINT 109014
SLAVE FY MASTER 609114 JOINT 109114
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SLAVE FY MASTER 609114 JOINT 109114
SLAVE FY MASTER 609214 JOINT 109214
SLAVE FY MASTER 609314 JOINT 109314
SLAVE FY MASTER 609414 JOINT 109414
SLAVE FY MASTER 609514 JOINT 109514
SLAVE FY MASTER 609614 JOINT 109614
SLAVE FY MASTER 609714 JOINT 109714
SLAVE FY MASTER 609814 JOINT 109814
SLAVE FY MASTER 609914 JOINT 109914
SLAVE FY MASTER 610014 JOINT 110014
SLAVE FY MASTER 610114 JOINT 110114
SLAVE FY MASTER 610214 JOINT 110214
SLAVE FY MASTER 610314 JOINT 110314
SLAVE FY MASTER 610414 JOINT 110414
SLAVE FY MASTER 610514 JOINT 110514
SLAVE FY MASTER 610614 JOINT 110614
SLAVE FY MASTER 610714 JOINT 110714
SLAVE FY MASTER 610814 JOINT 110814
SLAVE FY MASTER 610914 JOINT 110914
SLAVE FY MASTER 611014 JOINT 111014
SLAVE FY MASTER 611114 JOINT 111114
SLAVE FY MASTER 611214 JOINT 111214
SLAVE FY MASTER 611314 JOINT 111314
SLAVE FY MASTER 611414 JOINT 111414
SLAVE FY MASTER 611514 JOINT 111514
SLAVE FY MASTER 611614 JOINT 111614
SLAVE FY MASTER 611714 JOINT 111714
SLAVE FY MASTER 611814 JOINT 111814
SLAVE FY MASTER 611914 JOINT 111914
SLAVE FY MASTER 612014 JOINT 112014
SLAVE FY MASTER 612114 JOINT 112114
SLAVE FY MASTER 612214 JOINT 112214
SLAVE FY MASTER 612314 JOINT 112314
SLAVE FY MASTER 612414 JOINT 112414
SLAVE FY MASTER 612514 JOINT 112514
SLAVE FY MASTER 612614 JOINT 112614
SLAVE FY MASTER 605115 JOINT 105115
SLAVE FY MASTER 605215 JOINT 105215
SLAVE FY MASTER 605315 JOINT 105315
SLAVE FY MASTER 605415 JOINT 105415
SLAVE FY MASTER 605515 JOINT 105515
SLAVE FY MASTER 605815 JOINT 105815
SLAVE FY MASTER 605915 JOINT 105915
SLAVE FY MASTER 606015 JOINT 106015
SLAVE FY MASTER 606115 JOINT 106115
SLAVE FY MASTER 611215 JOINT 111215
SLAVE FY MASTER 611315 JOINT 111315
SLAVE FY MASTER 611415 JOINT 111415
SLAVE FY MASTER 611515 JOINT 111515
SLAVE FY MASTER 612115 JOINT 112115
SLAVE FY MASTER 612215 JOINT 112215
SLAVE FY MASTER 612415 JOINT 112415
SLAVE FY MASTER 612515 JOINT 112515



UNIT FEET KIP
LOAD 1 LOADTYPE Dead  TITLE SELFWEIGHT + BUMP UPS
*SELFWEIGHT Y -1.00 LIST ALL
*1-126 South Truss Lower Chord / 253-378 North Truss Lower Chord
SELFWEIGHT Y -1.41 LIST 1 TO 126 253 TO 378
*127-252 South Truss Upper Chord / 379-504 North Truss Upper Chord
SELFWEIGHT Y -1.35 LIST 127 TO 252 379 TO 504
*759-884 South Truss Diagonals / 885-1010 North Truss Diagonals
SELFWEIGHT Y -1.17 LIST 759 TO 1010
*505-631 South Truss Verticals / 632-758 North Truss Verticals
*Upper Sections of Truss Vertical Members
SELFWEIGHT Y -1.22 LIST 505 TO 758 3505 3512 3515 3525 3533 TO 3535 3545 3553 -
3554 TO 3555 3567 3576 3577 3579 3595 3601 3609 3615 3631 3632 3639 3642 3652 -
3660 TO 3662 3672 3680 TO 3682 3694 3703 3704 3706 3722 3728 3736 3742 3758 -
4535 4545 4555 4567 4579 4595 4615 4631 4662 4672 4682 4694 4706 4722 4742 -
4758
*Lateral Bracing Horizontal Strut (2000-2253)
SELFWEIGHT Y -1.4 LIST 2000 TO 2253
* Lateral Bracing Diagonal Members (2300-2551)
SELFWEIGHT Y -1.05 LIST 2300 TO 2551
*Sway Horizontal Members
SELFWEIGHT Y -1.2 LIST 5000 5001 5006 5007 5010 5011 5022 5023 5030 TO 5037 -
5046 TO 5049 5058 TO 5065 5078 TO 5081 5090 TO 5093 5096 TO 5099 -
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5046 TO 5049 5058 TO 5065 5078 TO 5081 5090 TO 5093 5096 TO 5099 -
5116 TO 5119 5126 5127 5132 5133 5140 TO 5143 5162 TO 5165
*Sway Diagonal Members - 5 BBB A BBB=Panel Point A=Member
SELFWEIGHT Y -1.05 LIST 50001 TO 50004 50021 50022 50041 50042 50071 50072 -
50091 50092 50101 TO 50104 50111 50112 50131 50132 50151 50152 50171 50172 -
50191 50192 50201 TO 50204 50211 50212 50231 50232 50251 50252 50281 50282 -
50291 50292 50301 TO 50306 50311 50312 50341 50342 50361 50362 50391 50392 -
50401 TO 50406 50421 50422 50431 50432 50451 50452 50471 50472 50481 50482 -
50491 TO 50494 50501 TO 50506 50511 50512 50531 50532 50551 50552 50571 -
50572 50591 50592 50611 50612 50621 TO 50626 50631 50632 50641 50642 50651 -
50652 50681 50682 50711 50712 50721 50722 50731 50732 50741 TO 50746 50751 -
50752 50771 50772 50791 50792 50811 50812 50831 50832 50851 50852 50871 -
50872 50891 50892 50901 TO 50906 50911 50912 50931 50932 50941 50942 50961 -
50962 50991 50992 51011 51012 51041 51042 51061 51062 51081 51082 51091 -
51092 51101 TO 51106 51111 51112 51121 51122 51131 51132 51151 51152 51171 -
51172 51191 51192 51211 51212 51231 51232 51251 51252 51261 TO 51266
*Lateral Bracing Longitudinal Members Including Wind Lock Tongues
SELFWEIGHT Y -1.05 LIST 6000 TO 6024
*Stringers
SELFWEIGHT  Y -1.05 List -
*Bays with 14 Stringers
615001 TO 615014 600101 TO 600114 600201 TO 600214 600301 TO 600314 -
600401 TO 600414 600501 TO 600514 600601 TO 600614 600701 TO 600714 -
600801 TO 600814 600901 TO 600914 601001 TO 601014 601101 TO 601114 -
601201 TO 601214 601301 TO 601314 601401 TO 601414 601501 TO 601514 -
601601 TO 601614 601701 TO 601714 601801 TO 601814 601901 TO 601914 -
602001 TO 602014 602101 TO 602114 602201 TO 602214 602301 TO 602314 -
602401 TO 602414 602501 TO 602514 602601 TO 602614 602701 TO 602714 -
602801 TO 602814 602901 TO 602914 603001 TO 603014 603101 TO 603114 -
603201 TO 603214 603301 TO 603314 603401 TO 603414 603501 TO 603514 -
603601 TO 603614 603701 TO 603714 603801 TO 603814 603901 TO 603914 -
604001 TO 604014 604101 TO 604114 604201 TO 604214 604301 TO 604314 -
604401 TO 604414 604501 TO 604514 604601 TO 604614 604701 TO 604714 -
604801 TO 604814 604901 TO 604914 605001 TO 605014 605101 TO 605114 -
605601 TO 605614 605701 TO 605714 605801 TO 605814 606201 TO 606214 -
606301 TO 606314 606401 TO 606414 606501 TO 606514 606601 TO 606614 -
606701 TO 606714 606801 TO 606814 606901 TO 606914 607001 TO 607014 -
607101 TO 607114 607201 TO 607214 607301 TO 607314 607401 TO 607414 -
607501 TO 607514 607601 TO 607614 607701 TO 607714 607801 TO 607814 -
607901 TO 607914 608001 TO 608014 608101 TO 608114 608201 TO 608214 -
608301 TO 608314 608401 TO 608414 608501 TO 608514 608601 TO 608614 -
608701 TO 608714 608801 TO 608814 608901 TO 608914 609001 TO 609014 -
609101 TO 609114 609201 TO 609214 609301 TO 609314 609401 TO 609414 -
609501 TO 609514 609601 TO 609614 609701 TO 609714 609801 TO 609814 -
609901 TO 609914 610001 TO 610014 610101 TO 610114 610201 TO 610214 -
610301 TO 610314 610401 TO 610414 610501 TO 610514 610601 TO 610614 -
610701 TO 610714 610801 TO 610814 610901 TO 610914 611001 TO 611014 -
611101 TO 611114 611201 TO 611214 611601 TO 611614 611701 TO 611714 -
611801 TO 611814 611901 TO 611914 612001 TO 612014 612101 TO 612114 -
612301 TO 612314 612401 TO 612414 612601 TO 612614 -
*Bays with 15 Stringers
605201 TO 605215 605301 TO 605315 605401 TO 605415 605501 TO 605515 -
605901 TO 605915 606001 TO 606015 606101 TO 606115 611301 TO 611315 -
611401 TO 611415 611501 TO 611515 612201 TO 612215 612501 TO 612515

*Original Floorbeams
SELFWEIGHT Y -1.596 LIST 200004 TO 200012 200104 TO 200112 200204 TO 200212 -
200304 TO 200312 200404 TO 200412 200504 TO 200512 200604 TO 200612 200804 -
200805 TO 200812 200904 TO 200912 201004 TO 201012 201104 TO 201112 201204 -
201205 TO 201212 201304 TO 201312 201404 TO 201412 201504 TO 201512 201604 -
201605 TO 201612 201704 TO 201712 201904 TO 201912 202004 TO 202012 202104 -
202105 TO 202112 202204 TO 202212 202304 TO 202312 202404 TO 202412 202504 -
202505 TO 202512 202604 TO 202612 202704 TO 202712 202904 TO 202912 203004 -
203005 TO 203012 203104 TO 203112 203204 TO 203212 203304 TO 203312 203404 -
203405 TO 203412 203504 TO 203512 203704 TO 203712 203804 TO 203812 203904 -
203905 TO 203912 204004 TO 204012 204104 TO 204112 204204 TO 204212 204304 -
204305 TO 204312 204404 TO 204412 204504 TO 204512 204604 TO 204612 204704 -
204705 TO 204712 204904 TO 204912 205004 TO 205012 205105 TO 205113 205205 -
205206 TO 205213 205305 TO 205313 205405 TO 205413 205505 TO 205513 205605 -
205606 TO 205613 205705 TO 205713 205805 TO 205813 205905 TO 205913 206005 -
206006 TO 206013 206105 TO 206113 206204 TO 206212 206304 TO 206312 206404 -
206405 TO 206412 206504 TO 206512 206604 TO 206612 206704 TO 206712 206804 -
206805 TO 206812 206904 TO 206912 207004 TO 207012 207204 TO 207212 207304 -
207305 TO 207312 207404 TO 207412 207504 TO 207512 207604 TO 207612 207704 -
207705 TO 207712 207804 TO 207812 207904 TO 207912 208004 TO 208012 208104 -
208105 TO 208112 208204 TO 208212 208404 TO 208412 208504 TO 208512 208604 -
208605 TO 208612 208704 TO 208712 208804 TO 208812 208904 TO 208912 209004 -
209005 TO 209012 209104 TO 209112 209204 TO 209212 209304 TO 209312 209404 -
209405 TO 209412 209504 TO 209512 209704 TO 209712 209804 TO 209812 209904 -
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209405 TO 209412 209504 TO 209512 209704 TO 209712 209804 TO 209812 209904 -
209905 TO 209912 210004 TO 210012 210104
SELFWEIGHT Y -1.596 LIST 210105 TO 210112 210204 TO 210212 210304 TO 210312 -
210404 TO 210412 210504 TO 210512 210604 TO 210612 210704 TO 210712 210804 -
210805 TO 210812 210904 TO 210912 211004 TO 211012 211104 TO 211112 211205 -
211206 TO 211213 211305 TO 211313 211405 TO 211413 211505 TO 211513 211605 -
211606 TO 211613 211705 TO 211713 211805 TO 211813 211905 TO 211913 212005 -
212006 TO 212013 212105 TO 212113 212205 TO 212213 212304 TO 212312 212404 -
212405 TO 212412 212504 TO 212512
*New Floorbeams
SELFWEIGHT Y -1.597 LIST 201804 TO 201812 203604 TO 203612 208304 TO 208312
*New Floorbeams at Expansion Joints
SELFWEIGHT Y -1.975 LIST 200704 TO 200712 202804 TO 202812 204804 TO 204812 -
207104 TO 207112 209604 TO 209612 212603 TO 212611
*Original Cantilever Floorbeams
*North
*South
SELFWEIGHT Y -1.526 LIST 200301 TO 200303 200313 TO 200315 200401 TO 200403 -
200501 TO 200503 201001 TO 201003 201101 TO 201103 201201 TO 201203 201213 -
201214 TO 201215 201401 TO 201403 201701 TO 201703 201713 TO 201715 202001 -
202002 TO 202003 202201 TO 202203 203001 TO 203003 203201 TO 203203 203301 -
203302 TO 203303 203313 TO 203315 203501 TO 203503 203701 TO 203703 203813 -
203814 TO 203815 204001 TO 204003 204101 TO 204103 204301 TO 204303 204313 -
204314 TO 204315 204413 TO 204415 204501 TO 204503 204613 TO 204615 204701 -
204702 TO 204703 204713 TO 204715 204901 TO 204903 204913 TO 204915 205001 -
205002 TO 205003 205101 TO 205104 205201 TO 205204 205401 TO 205404 205501 -
205502 TO 205504 205601 TO 205604 205801 TO 205804 205814 TO 205816 205901 -
205902 TO 205904 206101 TO 206104 206201 TO 206203 206613 TO 206615 206701 -
206702 TO 206703 206801 TO 206803 207013 TO 207015 207201 TO 207203 207501 -
207502 TO 207503 207513 TO 207515 207601 TO 207603 207613 TO 207615 207701 -
207702 TO 207703 207813 TO 207815 208213 TO 208215 208713 TO 208715 208801 -
208802 TO 208803 209213 TO 209215 209401 TO 209403 209801 TO 209803 209901 -
209902 TO 209903 209913 TO 209915 210201 TO 210203 210213 TO 210215 210513 -
210514 TO 210515 210901 TO 210903 211201 TO 211204 211301 TO 211304 211501 -
211502 TO 211504 211601 TO 211604 211614 211615 211701 TO 211704 211714 -
211715 211801 TO 211804 211814 211815 212001 TO 212004 212101 TO 212104 -
212114 TO 212116 212201 TO 212204 212214 TO 212216 212301 TO 212303 212313 -
212314 TO 212315 212401 TO 212403 212413 TO 212416 212501 TO 212503 212513 -
212514 TO 212516
*Replaced Cantilever Floorbeams
*North
*South
SELFWEIGHT Y -1.551 LIST 200001 TO 200003 200013 TO 200015 200101 TO 200103 -
200113 TO 200115 200201 TO 200203 200213 TO 200215 200413 TO 200415 200513 -
200514 TO 200515 200601 TO 200603 200613 TO 200615 200801 TO 200803 200813 -
200814 TO 200815 200901 TO 200903 200913 TO 200915 201013 TO 201015 201113 -
201114 TO 201115 201301 TO 201303 201313 TO 201315 201413 TO 201415 201501 -
201502 TO 201503 201513 TO 201515 201601 TO 201603 201613 TO 201615 201801 -
201802 TO 201803 201813 TO 201815 201901 TO 201903 201913 TO 201915 202013 -
202014 TO 202015 202101 TO 202103 202113 TO 202115 202213 TO 202215 202301 -
202302 TO 202303 202313 TO 202315 202401 TO 202403 202413 TO 202415 202501 -
202502 TO 202503 202513 TO 202515 202601 TO 202603 202613 TO 202615 202701 -
202702 TO 202703 202713 TO 202715 202901 TO 202903 202913 TO 202915 203013 -
203014 TO 203015 203101 TO 203103 203113 TO 203115 203213 TO 203215 203401 -
203402 TO 203403 203413 TO 203415 203513 TO 203515 203601 TO 203603 203613 -
203614 TO 203615 203713 TO 203715 203801 TO 203803 203901 TO 203903 203913 -
203914 TO 203915 204013 TO 204015 204113 TO 204115 204201 TO 204203 204213 -
204214 TO 204215 204401 TO 204403 204513 TO 204515 204601 TO 204603 205013 -
205014 TO 205015 205114 TO 205116 205214 TO 205216 205301 TO 205304 205314 -
205315 TO 205316 205414 TO 205416 205514 TO 205516 205614 205615 -
205701 TO 205704 205714 205715 205914 TO 205916 206001 TO 206004 -
206014 TO 206016 206114 TO 206116 206213 TO 206215 206301 TO 206303 206313 -
206314 TO 206315 206401 TO 206403 206413 TO 206415 206501 TO 206503 206513 -
206514 TO 206515 206601 TO 206603 206713 TO 206715 206813 TO 206815 206901 -
206902 TO 206903 206913 TO 206915 207001 TO 207003 207213 TO 207215 207301 -
207302 TO 207303 207313 TO 207315 207401 TO 207403
SELFWEIGHT Y -1.551 LIST 207413 TO 207415 207713 TO 207715 207801 TO 207803 -
207901 TO 207903 207913 TO 207915 208001 TO 208003 208013 TO 208015 208101 -
208102 TO 208103 208113 TO 208115 208201 TO 208203 208301 TO 208303 208313 -
208314 TO 208315 208401 TO 208403 208413 TO 208415 208501 TO 208503 208513 -
208514 TO 208515 208601 TO 208603 208613 TO 208615 208701 TO 208703 208813 -
208814 TO 208815 208901 TO 208903 208913 TO 208915 209001 TO 209003 209013 -
209014 TO 209015 209101 TO 209103 209113 TO 209115 209201 TO 209203 209301 -
209302 TO 209303 209313 TO 209315 209413 TO 209415 209501 TO 209503 209513 -
209514 TO 209515 209701 TO 209703 209713 TO 209715 209813 TO 209815 210001 -
210002 TO 210003 210013 TO 210015 210101 TO 210103 210113 TO 210115 210301 -
210302 TO 210303 210313 TO 210315 210401 TO 210403 210413 TO 210415 210501 -
210502 TO 210503 210601 TO 210603 210613 TO 210615 210701 TO 210703 210713 -
210714 TO 210715 210801 TO 210803 210813 TO 210815 210913 TO 210915 211001 -
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210714 TO 210715 210801 TO 210803 210813 TO 210815 210913 TO 210915 211001 -
211002 TO 211003 211013 TO 211015 211101 TO 211103 211113 TO 211115 211214 -
211215 TO 211216 211314 TO 211316 211401 TO 211404 211414 TO 211416 211514 -
211515 TO 211516 211901 TO 211904 211914 211915 212014 212015
*Replaced Cantilever Floorbeams at Expansion Joints
*North
*South
SELFWEIGHT Y -1.826 LIST 200701 TO 200703 200713 TO 200715 202801 TO 202803 -
202813 TO 202815 204801 TO 204803 204813 TO 204815 207101 TO 207103 207113 -
207114 TO 207115 209601 TO 209603 209613 TO 209615 212601 212602 -
212612 TO 212615
LOAD 2 LOADTYPE Dead  TITLE GUSSET PLATES
JOINT LOAD
*1-127 South Truss Lower Chord
1 FY -0.805
2 FY -1.202
3 FY -1.218
4 FY -1.461
5 FY -1.526
6 FY -1.914
7 FY -2.085
8 FY -2.374
9 FY -1.642
10 FY -1.588
11 FY -2.501
12 FY -1.503
13 FY -1.237
14 FY -1.29
15 FY -1.637
16 FY -1.64
17 FY -1.634
18 FY -1.335
19 FY -1.123
20 FY -1.518
21 FY -2.383
22 FY -1.395
23 FY -1.195
24 FY -1.673
25 FY -1.286
26 FY -1.481
27 FY -1.251
28 FY -1.124
29 FY -2.272
30 FY -1.469
31 FY -2.549
32 FY -1.84
33 FY -1.51
34 FY -1.549
35 FY -1.392
36 FY -2.314
37 FY -1.586
38 FY -1.674
39 FY -1.868
40 FY -1.681
41 FY -2.593
42 FY -1.588
43 FY -1.958
44 FY -1.261
45 FY -1.285
46 FY -1.437
47 FY -1.284
48 FY -1.249
49 FY -3.311
50 FY -2.214
51 FY -2.747
52 FY -2.477
53 FY -1.911
54 FY -2.372
55 FY -2.073
56 FY -2.679
57 FY -3.005
58 FY -2.948
59 FY -2.111
60 FY -2.052
61 FY -2.303
62 FY -2.072
63 FY -2.889
64 FY -2.549
65 FY -1.804
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65 FY -1.804
66 FY -2.012
67 FY -1.287
68 FY -1.264
69 FY -1.661
70 FY -1.254
71 FY -1.31
72 FY -2.4
73 FY -1.537
74 FY -2.338
75 FY -2.718
76 FY -1.913
77 FY -2.437
78 FY -2.506
79 FY -2.435
80 FY -2.745
81 FY -2.305
82 FY -2.921
83 FY -3.833
84 FY -3.348
85 FY -3.166
86 FY -2.858
87 FY -2.472
88 FY -3.329
89 FY -3.925
90 FY -4.18
91 FY -2.711
92 FY -3.609
93 FY -2.307
94 FY -2.335
95 FY -1.727
96 FY -2.378
97 FY -4.671
98 FY -2.332
99 FY -2.158
100 FY -2.203
101 FY -2.949
102 FY -2.329
103 FY -2.601
104 FY -2.352
105 FY -4.011
106 FY -2.243
107 FY -2.041
108 FY -1.888
109 FY -2.455
110 FY -3.241
111 FY -3.125
112 FY -3.616
113 FY -2.845
114 FY -2.703
115 FY -2.713
116 FY -3.143
117 FY -2.805
118 FY -2.8
119 FY -3.362
120 FY -2.191
121 FY -2.528
122 FY -2.389
123 FY -2.557
124 FY -2.983
125 FY -2.57
126 FY -3.487
127 FY -1.767
*128-254 South Truss Upper Chord
128 FY -1.509
129 FY -1.564
130 FY -1.657
131 FY -1.511
132 FY -1.379
133 FY -0.784
134 FY -1.714
135 FY -2.17
136 FY -1.932
137 FY -1.82
138 FY -2.541
139 FY -1.433
140 FY -1.9
141 FY -1.95
142 FY -1.588

142 FY -1.588
143 FY -0.723
144 FY -1.569
145 FY -1.898
146 FY -1.804
147 FY -1.456
148 FY -3.103
149 FY -1.256
150 FY -1.471
151 FY -1.773
152 FY -1.414
153 FY -0.579
154 FY -1.379
155 FY -1.336
156 FY -1.992
157 FY -1.419
158 FY -2.535
159 FY -1.531
160 FY -1.675
161 FY -1.713
162 FY -1.719
163 FY -0.727
164 FY -1.803
165 FY -1.629
166 FY -1.599
167 FY -2.011
168 FY -2.628
169 FY -1.801
170 FY -1.598
171 FY -1.531
172 FY -1.327
173 FY -0.762
174 FY -1.346
175 FY -1.792
176 FY -3.405
177 FY -1.582
178 FY -2.772
179 FY -2.221
180 FY -2.048
181 FY -3.321
182 FY -1.64
183 FY -1.948
184 FY -0.732
185 FY -1.815
186 FY -1.874
187 FY -2.808
188 FY -2.171
189 FY -2.359
190 FY -3.622
191 FY -1.517
192 FY -1.707
193 FY -1.673
194 FY -1.621
195 FY -1.479
196 FY -0.867
197 FY -1.265
198 FY -1.536
199 FY -2.291
200 FY -1.27
201 FY -1.54
202 FY -3.563
203 FY -2.459
204 FY -2.283
205 FY -2.256
206 FY -2.074
207 FY -1.526
208 FY -2.116
209 FY -2.052
210 FY -0.794
211 FY -2.64
212 FY -2.43
213 FY -3.297
214 FY -2.504
215 FY -2.358
216 FY -2.181
217 FY -2.737
218 FY -3.277
219 FY -1.744
220 FY -1.513

220 FY -1.513
221 FY -1.849
222 FY -2.852
223 FY -2.291
224 FY -4.977
225 FY -2.803
226 FY -2.103
227 FY -2.173
228 FY -0.812
229 FY -2.18
230 FY -2.126
231 FY -2.838
232 FY -4.056
233 FY -2.166
234 FY -2.248
235 FY -2.247
236 FY -1.538
237 FY -1.678
238 FY -4.628
239 FY -2.449
240 FY -1.713
241 FY -3.671
242 FY -2.243
243 FY -3.336
244 FY -1.828
245 FY -2.523
246 FY -0.87
247 FY -1.885
248 FY -1.527
249 FY -1.94
250 FY -1.735
251 FY -2.188
252 FY -2.222
253 FY -2.26
254 FY -2.793
*255-381 North Truss Lower Chord
255 FY -0.805
256 FY -1.202
257 FY -1.218
258 FY -1.461
259 FY -1.526
260 FY -1.914
261 FY -2.085
262 FY -2.374
263 FY -1.642
264 FY -1.588
265 FY -2.501
266 FY -1.503
267 FY -1.237
268 FY -1.29
269 FY -1.637
270 FY -1.64
271 FY -1.634
272 FY -1.335
273 FY -1.123
274 FY -1.518
275 FY -2.383
276 FY -1.395
277 FY -1.195
278 FY -1.673
279 FY -1.286
280 FY -1.481
281 FY -1.251
282 FY -1.124
283 FY -2.272
284 FY -1.469
285 FY -2.549
286 FY -1.84
287 FY -1.51
288 FY -1.549
289 FY -1.392
290 FY -2.314
291 FY -1.586
292 FY -1.674
293 FY -1.868
294 FY -1.681
295 FY -2.593
296 FY -1.588
297 FY -1.958

297 FY -1.958
298 FY -1.261
299 FY -1.285
300 FY -1.437
301 FY -1.284
302 FY -1.249
303 FY -3.311
304 FY -2.214
305 FY -2.747
306 FY -2.477
307 FY -1.911
308 FY -2.372
309 FY -2.073
310 FY -2.679
311 FY -3.005
312 FY -2.948
313 FY -2.111
314 FY -2.052
315 FY -2.303
316 FY -2.072
317 FY -2.889
318 FY -2.549
319 FY -1.804
320 FY -2.012
321 FY -1.287
322 FY -1.264
323 FY -1.661
324 FY -1.254
325 FY -1.31
326 FY -2.4
327 FY -1.537
328 FY -2.338
329 FY -2.718
330 FY -1.913
331 FY -2.437
332 FY -2.506
333 FY -2.435
334 FY -2.745
335 FY -2.305
336 FY -2.921
337 FY -3.833
338 FY -3.348
339 FY -3.166
340 FY -2.858
341 FY -2.472
342 FY -3.329
343 FY -3.925
344 FY -4.18
345 FY -2.711
346 FY -3.609
347 FY -2.307
348 FY -2.335
349 FY -1.727
350 FY -2.378
351 FY -4.671
352 FY -2.332
353 FY -2.158
354 FY -2.203
355 FY -2.949
356 FY -2.329
357 FY -2.601
358 FY -2.352
359 FY -4.011
360 FY -2.243
361 FY -2.041
362 FY -1.888
363 FY -2.455
364 FY -3.241
365 FY -3.125
366 FY -3.616
367 FY -2.845
368 FY -2.703
369 FY -2.713
370 FY -3.143
371 FY -2.805
372 FY -2.8
373 FY -3.362
374 FY -2.191
375 FY -2.528

375 FY -2.528
376 FY -2.389
377 FY -2.557
378 FY -2.983
379 FY -2.57
380 FY -3.487
381 FY -1.767
*382-508 North Truss Upper Chord
382 FY -1.509
383 FY -1.564
384 FY -1.657
385 FY -1.511
386 FY -1.379
387 FY -0.784
388 FY -1.714
389 FY -2.17
390 FY -1.932
391 FY -1.82
392 FY -2.541
393 FY -1.433
394 FY -1.9
395 FY -1.95
396 FY -1.588
397 FY -0.723
398 FY -1.569
399 FY -1.898
400 FY -1.804
401 FY -1.456
402 FY -3.103
403 FY -1.256
404 FY -1.471
405 FY -1.773
406 FY -1.414
407 FY -0.579
408 FY -1.379
409 FY -1.336
410 FY -1.992
411 FY -1.419
412 FY -2.535
413 FY -1.531
414 FY -1.675
415 FY -1.713
416 FY -1.719
417 FY -0.727
418 FY -1.803
419 FY -1.629
420 FY -1.599
421 FY -2.011
422 FY -2.628
423 FY -1.801
424 FY -1.598
425 FY -1.531
426 FY -1.327
427 FY -0.762
428 FY -1.346
429 FY -1.792
430 FY -3.405
431 FY -1.582
432 FY -2.772
433 FY -2.221
434 FY -2.048
435 FY -3.321
436 FY -1.64
437 FY -1.948
438 FY -0.732
439 FY -1.815
440 FY -1.874
441 FY -2.808
442 FY -2.171
443 FY -2.359
444 FY -3.622
445 FY -1.517
446 FY -1.707
447 FY -1.673
448 FY -1.621
449 FY -1.479
450 FY -0.867
451 FY -1.265
452 FY -1.536

```
452 FY -1.536
453 FY -2.291
454 FY -1.27
455 FY -1.54
456 FY -3.563
457 FY -2.459
458 FY -2.283
459 FY -2.256
460 FY -2.074
461 FY -1.526
462 FY -2.116
463 FY -2.052
464 FY -0.794
465 FY -2.64
466 FY -2.43
467 FY -3.297
468 FY -2.504
469 FY -2.358
470 FY -2.181
471 FY -2.737
472 FY -3.277
473 FY -1.744
474 FY -1.513
475 FY -1.849
476 FY -2.852
477 FY -2.291
478 FY -4.977
479 FY -2.803
480 FY -2.103
481 FY -2.173
482 FY -0.812
483 FY -2.18
484 FY -2.126
485 FY -2.838
486 FY -4.056
487 FY -2.166
488 FY -2.248
489 FY -2.247
490 FY -1.538
491 FY -1.678
492 FY -4.628
493 FY -2.449
494 FY -1.713
495 FY -3.671
496 FY -2.243
497 FY -3.336
498 FY -1.828
499 FY -2.523
500 FY -0.87
501 FY -1.885
502 FY -1.527
503 FY -1.94
504 FY -1.735
505 FY -2.188
506 FY -2.222
507 FY -2.26
508 FY -2.793
LOAD 3 LOADTYPE DEAD TITLE  DECK AND PARAPETS
MEMBER LOAD
*Bays with 14 Stringers UNI FY = -0.65
_s14 UNI GY -0.65
*Bays with 15 Stringers UNI FY = -0.61
_s15 UNI GY -0.61

*Wind Locks Joint Loads to Midpoints of Horizontal Stuts
LOAD 4 LOADTYPE Dead  TITLE WIND LOCKS
JOINT LOAD
607 628 648 671 696 FY -2.01
*Catwalks Joint Loads to Floorbeams Nodes
LOAD 5 LOADTYPE Dead  TITLE INSPECTION WALKWAY
JOINT LOAD
100007 100107 100207 100307 100407 100507 100607 100707 100807 100907 101007 -
101107 101207 101307 101407 101507 101607 101707 101807 101907 102007 102107 -
102207 102307 102407 102507 102607 102707 102807 102907 103007 103107 103207 -
103307 103407 103507 103607 103707 103807 103907 104007 104107 104207 104307 -
104407 104507 104607 104707 104807 104907 105007 105108 105208 105308 105408 -
105508 105608 105708 105808 105908 106008 106108 106207 106307 106407 106507 -
106607 106707 106807 106907 107007 107107 107207 107307 107407 107507 107607 -
107707 107807 107907 108007 108107 108207 108307 108407 108507 108607 108707 -
```

```
107707 107807 107907 108007 108107 108207 108307 108407 108507 108607 108707 -
108807 108907 109007 109107 109207 109307 109407 109507 109607 109707 109807 -
109907 110007 110107 110207 110307 110407 110507 110607 110707 110807 110907 -
111007 111107 111208 111308 111408 111508 111608 111708 111808 111908 112008 -
112108 112208 112307 112407 112507 112606 FY -2.47
*Overhead Signs Located in Span 2 and Span 10 Joint Loads
LOAD 6 LOADTYPE Dead  TITLE OVERHEAD SIGNS
JOINT LOAD
145 240 399 494 FY -14.16
*Drainage Loading on Truss Panel Point
LOAD 7 LOADTYPE Dead  TITLE DRAINAGE LOADING
JOINT LOAD
*Drainage Scuppers and Pipe Attached to Upper Chord Panel Points
*South Truss
*North Truss
133 136 141 147 151 156 166 170 176 186 193 200 207 216 228 232 240 249 254 -
387 390 395 401 405 410 420 424 430 440 447 454 461 470 482 486 494 503 -
508 FY -3
*Drainage Troughs Attached to Lower Chord Panel Points
*South Truss
*North Truss
2 TO 6 9 10 12 TO 14 20 22 TO 24 29 30 39 40 42 43 49 50 59 TO 62 64 TO 66 -
73 74 76 TO 80 89 90 101 TO 110 112 113 122 TO 126 256 TO 260 263 264 266 -
267 TO 268 274 276 TO 278 283 284 293 294 296 297 303 304 313 TO 316 -
318 TO 320 327 328 330 TO 334 343 344 355 TO 364 366 367 376 TO 379 -
380 FY -1.25
LOAD COMB 10 TOTAL DEAD LOAD
1 1.0 2 1.0 3 1.0 4 1.0 5 1.0 6 1.0 7 1.0
PERFORM ANALYSIS
FINISH
```

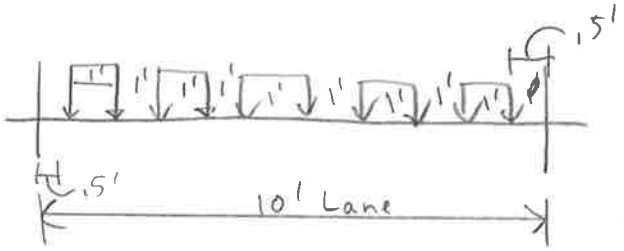
LIVE LOAD COMMAND FILE (SAMPLE LANE LOAD)

```
UNIT FEET KIP

DEFINE MOVING LOAD

*HS20 Lane Load
TYPE 1 LOAD 0 0.064
DIST 0.0001 WID 1

TYPE 2 LOAD 0 2.6
DIST 0.0001 WID 1
```




```
***DISTRIBUTED LOAD
LOAD GENERATION 1
**Lane 1 (1 of 5)
TYPE  1 0.00 50 -64.50 XINC 0.0001
TYPE  1 1.00 50 -64.50 XINC 0.0001
TYPE  1 2.00 50 -64.50 XINC 0.0001
TYPE  1 3.00 50 -64.50 XINC 0.0001
TYPE  1 4.00 50 -64.50 XINC 0.0001
TYPE  1 5.00 50 -64.50 XINC 0.0001
TYPE  1 6.00 50 -64.50 XINC 0.0001
TYPE  1 7.00 50 -64.50 XINC 0.0001
TYPE  1 8.00 50 -64.50 XINC 0.0001
TYPE  1 9.00 50 -64.50 XINC 0.0001
TYPE  1 10.00 50 -64.50 XINC 0.0001
TYPE  1 11.00 50 -64.50 XINC 0.0001
TYPE  1 12.00 50 -64.50 XINC 0.0001
TYPE  1 13.00 50 -64.50 XINC 0.0001
TYPE  1 14.00 50 -64.50 XINC 0.0001
TYPE  1 15.00 50 -64.50 XINC 0.0001
TYPE  1 16.00 50 -64.50 XINC 0.0001
TYPE  1 17.00 50 -64.50 XINC 0.0001
TYPE  1 18.00 50 -64.50 XINC 0.0001
TYPE  1 19.00 50 -64.50 XINC 0.0001
TYPE  1 20.00 50 -64.50 XINC 0.0001
TYPE  1 21.00 50 -64.50 XINC 0.0001
TYPE  1 22.00 50 -64.50 XINC 0.0001
TYPE  1 23.00 50 -64.50 XINC 0.0001
TYPE  1 24.00 50 -64.50 XINC 0.0001
TYPE  1 25.00 50 -64.50 XINC 0.0001
TYPE  1 26.00 50 -64.50 XINC 0.0001
TYPE  1 27.00 50 -64.50 XINC 0.0001
TYPE  1 28.00 50 -64.50 XINC 0.0001
TYPE  1 29.00 50 -64.50 XINC 0.0001
TYPE  1 30.00 50 -64.50 XINC 0.0001

**Lane 1 (2 of 5)
TYPE  1 0.00 50 -62.50 XINC 0.0001
TYPE  1 1.00 50 -62.50 XINC 0.0001
TYPE  1 2.00 50 -62.50 XINC 0.0001
TYPE  1 3.00 50 -62.50 XINC 0.0001
TYPE  1 4.00 50 -62.50 XINC 0.0001
TYPE  1 5.00 50 -62.50 XINC 0.0001
TYPE  1 6.00 50 -62.50 XINC 0.0001
TYPE  1 7.00 50 -62.50 XINC 0.0001
TYPE  1 8.00 50 -62.50 XINC 0.0001
TYPE  1 9.00 50 -62.50 XINC 0.0001
TYPE  1 10.00 50 -62.50 XINC 0.0001
TYPE  1 11.00 50 -62.50 XINC 0.0001
```

essentially placing mat w/ no movement.

```
TYPE  1 12.00 50 -62.50 XINC 0.0001
TYPE  1 13.00 50 -62.50 XINC 0.0001
TYPE  1 14.00 50 -62.50 XINC 0.0001
TYPE  1 15.00 50 -62.50 XINC 0.0001
TYPE  1 16.00 50 -62.50 XINC 0.0001
TYPE  1 17.00 50 -62.50 XINC 0.0001
TYPE  1 18.00 50 -62.50 XINC 0.0001
TYPE  1 19.00 50 -62.50 XINC 0.0001
TYPE  1 20.00 50 -62.50 XINC 0.0001
TYPE  1 21.00 50 -62.50 XINC 0.0001
TYPE  1 22.00 50 -62.50 XINC 0.0001
TYPE  1 23.00 50 -62.50 XINC 0.0001
TYPE  1 24.00 50 -62.50 XINC 0.0001
TYPE  1 25.00 50 -62.50 XINC 0.0001
TYPE  1 26.00 50 -62.50 XINC 0.0001
TYPE  1 27.00 50 -62.50 XINC 0.0001
TYPE  1 28.00 50 -62.50 XINC 0.0001
TYPE  1 29.00 50 -62.50 XINC 0.0001
TYPE  1 30.00 50 -62.50 XINC 0.0001

**Lane 1 (3 of 5)
TYPE  1 0.00 50 -60.50 XINC 0.0001
TYPE  1 1.00 50 -60.50 XINC 0.0001
TYPE  1 2.00 50 -60.50 XINC 0.0001
TYPE  1 3.00 50 -60.50 XINC 0.0001
TYPE  1 4.00 50 -60.50 XINC 0.0001
TYPE  1 5.00 50 -60.50 XINC 0.0001
TYPE  1 6.00 50 -60.50 XINC 0.0001
TYPE  1 7.00 50 -60.50 XINC 0.0001
TYPE  1 8.00 50 -60.50 XINC 0.0001
TYPE  1 9.00 50 -60.50 XINC 0.0001
TYPE  1 10.00 50 -60.50 XINC 0.0001
TYPE  1 11.00 50 -60.50 XINC 0.0001
TYPE  1 12.00 50 -60.50 XINC 0.0001
TYPE  1 13.00 50 -60.50 XINC 0.0001
TYPE  1 14.00 50 -60.50 XINC 0.0001
TYPE  1 15.00 50 -60.50 XINC 0.0001
TYPE  1 16.00 50 -60.50 XINC 0.0001
TYPE  1 17.00 50 -60.50 XINC 0.0001
TYPE  1 18.00 50 -60.50 XINC 0.0001
TYPE  1 19.00 50 -60.50 XINC 0.0001
TYPE  1 20.00 50 -60.50 XINC 0.0001
TYPE  1 21.00 50 -60.50 XINC 0.0001
TYPE  1 22.00 50 -60.50 XINC 0.0001
TYPE  1 23.00 50 -60.50 XINC 0.0001
TYPE  1 24.00 50 -60.50 XINC 0.0001
TYPE  1 25.00 50 -60.50 XINC 0.0001
TYPE  1 26.00 50 -60.50 XINC 0.0001
TYPE  1 27.00 50 -60.50 XINC 0.0001
TYPE  1 28.00 50 -60.50 XINC 0.0001
TYPE  1 29.00 50 -60.50 XINC 0.0001
TYPE  1 30.00 50 -60.50 XINC 0.0001

**Lane 1 (4 of 5)
TYPE  1 0.00 50 -58.50 XINC 0.0001
TYPE  1 1.00 50 -58.50 XINC 0.0001
TYPE  1 2.00 50 -58.50 XINC 0.0001
TYPE  1 3.00 50 -58.50 XINC 0.0001
TYPE  1 4.00 50 -58.50 XINC 0.0001
TYPE  1 5.00 50 -58.50 XINC 0.0001
TYPE  1 6.00 50 -58.50 XINC 0.0001
TYPE  1 7.00 50 -58.50 XINC 0.0001
TYPE  1 8.00 50 -58.50 XINC 0.0001
```

```
TYPE  1 9.00 50 -58.50 XINC 0.0001
TYPE  1 10.00 50 -58.50 XINC 0.0001
TYPE  1 11.00 50 -58.50 XINC 0.0001
TYPE  1 12.00 50 -58.50 XINC 0.0001
TYPE  1 13.00 50 -58.50 XINC 0.0001
TYPE  1 14.00 50 -58.50 XINC 0.0001
TYPE  1 15.00 50 -58.50 XINC 0.0001
TYPE  1 16.00 50 -58.50 XINC 0.0001
TYPE  1 17.00 50 -58.50 XINC 0.0001
TYPE  1 18.00 50 -58.50 XINC 0.0001
TYPE  1 19.00 50 -58.50 XINC 0.0001
TYPE  1 20.00 50 -58.50 XINC 0.0001
TYPE  1 21.00 50 -58.50 XINC 0.0001
TYPE  1 22.00 50 -58.50 XINC 0.0001
TYPE  1 23.00 50 -58.50 XINC 0.0001
TYPE  1 24.00 50 -58.50 XINC 0.0001
TYPE  1 25.00 50 -58.50 XINC 0.0001
TYPE  1 26.00 50 -58.50 XINC 0.0001
TYPE  1 27.00 50 -58.50 XINC 0.0001
TYPE  1 28.00 50 -58.50 XINC 0.0001
TYPE  1 29.00 50 -58.50 XINC 0.0001
TYPE  1 30.00 50 -58.50 XINC 0.0001

**Lane 1 (5 of 5)
TYPE  1 0.00 50 -56.50 XINC 0.0001
TYPE  1 1.00 50 -56.50 XINC 0.0001
TYPE  1 2.00 50 -56.50 XINC 0.0001
TYPE  1 3.00 50 -56.50 XINC 0.0001
TYPE  1 4.00 50 -56.50 XINC 0.0001
TYPE  1 5.00 50 -56.50 XINC 0.0001
TYPE  1 6.00 50 -56.50 XINC 0.0001
TYPE  1 7.00 50 -56.50 XINC 0.0001
TYPE  1 8.00 50 -56.50 XINC 0.0001
TYPE  1 9.00 50 -56.50 XINC 0.0001
TYPE  1 10.00 50 -56.50 XINC 0.0001
TYPE  1 11.00 50 -56.50 XINC 0.0001
TYPE  1 12.00 50 -56.50 XINC 0.0001
TYPE  1 13.00 50 -56.50 XINC 0.0001
TYPE  1 14.00 50 -56.50 XINC 0.0001
TYPE  1 15.00 50 -56.50 XINC 0.0001
TYPE  1 16.00 50 -56.50 XINC 0.0001
TYPE  1 17.00 50 -56.50 XINC 0.0001
TYPE  1 18.00 50 -56.50 XINC 0.0001
TYPE  1 19.00 50 -56.50 XINC 0.0001
TYPE  1 20.00 50 -56.50 XINC 0.0001
TYPE  1 21.00 50 -56.50 XINC 0.0001
TYPE  1 22.00 50 -56.50 XINC 0.0001
TYPE  1 23.00 50 -56.50 XINC 0.0001
TYPE  1 24.00 50 -56.50 XINC 0.0001
TYPE  1 25.00 50 -56.50 XINC 0.0001
TYPE  1 26.00 50 -56.50 XINC 0.0001
TYPE  1 27.00 50 -56.50 XINC 0.0001
TYPE  1 28.00 50 -56.50 XINC 0.0001
TYPE  1 29.00 50 -56.50 XINC 0.0001
TYPE  1 30.00 50 -56.50 XINC 0.0001


***CONCENTRATED LOADS AT PANEL POINT LOCATIONS
LOAD GENERATION 1
TYPE  2 0.00 50.00 -64.50 XINC 0.0001
TYPE  2 0.00 50.00 -62.50 XINC 0.0001
TYPE  2 0.00 50.00 -60.50 XINC 0.0001
```

Concentrated load applied to floorbeams

```
TYPE  2 0.00 50.00 -58.50 XINC 0.0001
TYPE  2 0.00 50.00 -56.50 XINC 0.0001
LOAD GENERATION 1
TYPE  2 20.00 50.00 -64.50 XINC 0.0001
TYPE  2 20.00 50.00 -62.50 XINC 0.0001
TYPE  2 20.00 50.00 -60.50 XINC 0.0001
TYPE  2 20.00 50.00 -58.50 XINC 0.0001
TYPE  2 20.00 50.00 -56.50 XINC 0.0001
LOAD GENERATION 1
TYPE  2 40.00 50.00 -64.50 XINC 0.0001
TYPE  2 40.00 50.00 -62.50 XINC 0.0001
TYPE  2 40.00 50.00 -60.50 XINC 0.0001
TYPE  2 40.00 50.00 -58.50 XINC 0.0001
TYPE  2 40.00 50.00 -56.50 XINC 0.0001
```

LIVE LOAD COMMAND FILE
(SAMPLE HS-20 LOAD)

```
UNIT FEET KIP

DEFINE MOVEING LOAD

*HS20 Wheel Loads
TYPE 1 LOAD 0 4
DIST 0.0001

TYPE 2 LOAD 0 16
DIST 0.0001

TYPE 3 LOAD 0 4
DIST 0.0001

TYPE 4 LOAD 0 16
DIST 0.0001


***North Lane 3 Forward

LOAD GENERATION 1
TYPE    1       1533.143474     50      62.81350374     XINC    0.0001
TYPE    2       1546.831813     50      65.75108439     XINC    0.0001
TYPE    2       1560.520152     50      68.68866504     XINC    0.0001


TYPE    3       1531.884511     50      68.67993467     XINC    0.0001
TYPE    4       1545.57285      50      71.61751532     XINC    0.0001
TYPE    4       1559.261189     50      74.55509597     XINC    0.0001

LOAD GENERATION 1
TYPE    1       1538.032166     50      63.86263969     XINC    0.0001
TYPE    2       1551.720505     50      66.80022034     XINC    0.0001
TYPE    2       1565.408844     50      69.73780099     XINC    0.0001


TYPE    3       1536.773203     50      69.72907061     XINC    0.0001
TYPE    4       1550.461542     50      72.66665127     XINC    0.0001
TYPE    4       1564.149881     50      75.60423192     XINC    0.0001


LOAD GENERATION 1
TYPE    1       1542.920859     50      64.91177563     XINC    0.0001
TYPE    2       1556.609198     50      67.84935629     XINC    0.0001
TYPE    2       1570.297537     50      70.78693694     XINC    0.0001


TYPE    3       1541.661896     50      70.77820656     XINC    0.0001
TYPE    4       1555.350235     50      73.71578721     XINC    0.0001
TYPE    4       1569.038573     50      76.65336787     XINC    0.0001


LOAD GENERATION 1
TYPE    1       1547.809551     50      65.96091158     XINC    0.0001
TYPE    2       1561.49789      50      68.89849223     XINC    0.0001
TYPE    2       1575.186229     50      71.83607289     XINC    0.0001
```

```
TYPE    3       1546.550588     50      71.82734251     XINC    0.0001
TYPE    4       1560.238927     50      74.76492316     XINC    0.0001
TYPE    4       1573.927266     50      77.70250381     XINC    0.0001


LOAD GENERATION 1
TYPE    1       1552.698244     50      67.01004753     XINC    0.0001
TYPE    2       1566.386583     50      69.94762818     XINC    0.0001
TYPE    2       1580.074921     50      72.88520883     XINC    0.0001


TYPE    3       1551.439281     50      72.87647846     XINC    0.0001
TYPE    4       1565.12762      50      75.81405911     XINC    0.0001
TYPE    4       1578.815958     50      78.75163976     XINC    0.0001


LOAD GENERATION 1
TYPE    1       1557.586936     50      68.05918348     XINC    0.0001
TYPE    2       1571.275275     50      70.99676413     XINC    0.0001
TYPE    2       1584.963614     50      73.93434478     XINC    0.0001

TYPE    3       1556.327973     50      73.9256144      XINC    0.0001
TYPE    4       1570.016312     50      76.86319506     XINC    0.0001
TYPE    4       1583.704651     50      79.80077571     XINC    0.0001


LOAD GENERATION 1
TYPE    1       1562.475629     50      69.10831942     XINC    0.0001
TYPE    2       1576.163968     50      72.04590008     XINC    0.0001
TYPE    2       1589.852306     50      74.98348073     XINC    0.0001


TYPE    3       1561.216666     50      74.97475035     XINC    0.0001
TYPE    4       1574.905004     50      77.912331       XINC    0.0001
TYPE    4       1588.593343     50      80.84991166     XINC    0.0001
```

AS-BUILT RATINGS

STAAD FORCE OUTPUT

TranSystems

Made By SFH Date 3/30/2012
Checked By DWC Date 3/30/2012

Loading Per AASHTO 17th Standard Edition and ODOT Bridge Design Manual 2004 Ed
Impact Per AASHTO 3.8.2 Multiple Presence per AASHTO 3.12.1
* Based on C = 9.47% for Bend Point 1 (R = 1762.95'), C = 16.7% for Bend Point 2 (R = 1000')

Job No. P402110046
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
South	L0-L1	1	140.00 ft	18.87%	---	2.23	-108.76	108.63	-117.66	110.04	-45.93	45.88	-70.18	70.10	-82.15	82.05	-116.27	116.16	-152.06	151.92	-119.68	119.53
South	L1-L2	2	140.00 ft	18.87%	---	332.20	-79.94	144.75	-49.79	130.03	-34.64	65.84	-52.58	98.13	-61.07	113.74	-79.51	139.43	-95.48	176.09	-64.84	138.11
South	L2-L3	3	140.00 ft	18.87%	---	679.87	-69.25	256.77	-46.93	245.01	-31.85	116.24	-47.52	174.24	-54.79	201.50	-64.38	247.13	-66.19	296.82	-58.32	249.89
South	L3-L4	4	140.00 ft	18.87%	---	972.69	-61.02	362.12	-42.39	356.52	-28.70	163.50	-42.24	246.92	-48.17	284.13	-54.71	346.66	-59.63	407.65	-51.89	356.31
South	L4-L5	5	140.00 ft	18.87%	---	1110.18	-51.85	418.32	-36.08	410.65	-24.37	187.55	-35.88	281.16	-40.27	326.65	-45.93	398.92	-50.77	463.60	-43.83	406.20
South	L5-L6	6	140.00 ft	18.87%	---	541.10	-17.92	214.94	-12.67	203.58	-8.40	94.79	-12.38	142.91	-13.91	164.69	-15.50	204.62	-17.87	246.00	-15.25	211.65
South	L6-L7	7	140.00 ft	18.87%	---	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South	L7-L8	8	200.00 ft	15.38%	---	-497.51	-169.53	12.26	-177.67	9.92	-74.17	5.85	-112.10	8.48	-129.51	9.50	-165.17	10.44	-193.17	14.47	-178.03	12.57
South	L8-L9	9	200.00 ft	15.38%	---	-891.27	-269.12	17.20	-307.72	16.42	-117.83	7.28	-178.04	11.12	-205.64	13.00	-264.93	18.11	-321.46	24.03	-287.90	21.78
South	L9-L10	10	200.00 ft	15.38%	---	-1171.79	-309.93	29.53	-393.74	28.45	-135.69	12.51	-205.06	19.08	-237.96	22.35	-312.23	30.99	-388.42	41.22	-350.88	37.34
South	L10-L11	11	200.00 ft	15.38%	---	-1179.15	-311.86	29.71	-396.19	28.63	-136.54	12.59	-206.34	19.20	-239.44	22.49	-314.17	31.19	-390.84	41.48	-353.07	37.57
South	L11-L12	12	200.00 ft	15.38%	---	-1007.19	-351.48	128.35	-354.96	116.55	-153.62	58.25	-232.26	86.73	-269.43	100.45	-354.89	125.88	-404.29	146.97	-358.82	134.62
South	L12-L13	13	200.00 ft	15.38%	---	-775.06	-387.05	269.26	-305.95	276.37	-169.03	119.91	-255.61	179.98	-296.47	209.22	-391.40	267.92	-447.27	314.21	-355.61	290.25
South	L13-L14	14	200.00 ft	15.38%	---	-505.59	-407.78	414.41	-246.02	457.29	-178.13	183.18	-269.18	277.02	-312.15	321.06	-412.04	416.86	-471.49	488.13	-343.82	458.48
South	L14-L15	15	200.00 ft	15.38%	---	-262.98	-404.19	537.21	-190.27	626.39	-177.16	236.09	-267.63	358.38	-310.16	415.40	-405.90	537.30	-463.69	646.05	-348.56	596.55
South	L15-L16	16	200.00 ft	15.38%	---	-134.76	-367.97	511.33	-245.04	600.16	-163.77	224.65	-246.63	339.75	-286.13	394.91	-364.19	511.92	-399.08	620.53	-360.89	572.65
South	L16-L17	17	200.00 ft	15.38%	---	-271.02	-354.69	379.48	-236.47	405.94	-157.85	165.74	-237.72	251.19	-275.79	292.09	-351.06	382.16	-385.25	457.57	-347.96	425.70
South	L17-L18	18	200.00 ft	15.38%	---	-460.41	-319.55	261.76	-264.45	248.35	-142.21	114.99	-214.17	174.20	-248.47	201.91	-316.28	260.23	-375.22	314.00	-335.32	288.26
South	L18-L19	19	180.00 ft	16.39%	---	-637.44	-281.63	189.21	-331.48	181.30	-125.34	81.41	-188.76	123.57	-218.98	143.86	-280.58	195.72	-384.85	256.28	-349.43	225.87
South	L19-L20	20	180.00 ft	16.39%	---	-784.42	-267.80	177.88	-386.73	150.97	-116.62	76.12	-176.72	115.86	-205.78	135.36	-273.12	185.17	-391.39	246.20	-352.16	202.59
South	L20-L21	21	180.00 ft	16.39%	---	-789.32	-295.97	34.87	-310.07	17.56	-131.67	15.48	-198.32	23.29	-230.09	27.07	-293.35	34.90	-340.29	45.52	-310.78	34.44
South	L21-L22	22	180.00 ft	16.39%	---	-588.46	-246.81	23.46	-240.86	12.06	-111.11	10.42	-165.59	15.63	-192.95	18.20	-241.92	23.29	-279.89	31.49	-242.32	23.75
South	L22-L23	23	180.00 ft	16.39%	---	-322.36	-154.61	13.25	-137.97	6.28	-69.95	5.85	-104.30	8.80	-118.97	10.14	-147.09	12.87	-173.55	17.93	-149.05	13.27
South	L23-L24	24	100.00 ft	22.22%	---	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South	L24-L25	25	100.00 ft	22.22%	---	311.64	-13.08	183.49	-3.96	150.47	-6.19	85.79	-9.09	126.50	-10.45	144.87	-11.88	166.10	-14.97	191.93	-12.37	166.18
South	L25-L26	26	100.00 ft	22.22%	---	447.91	-17.58	258.76	-6.80	214.56	-8.19	119.80	-12.15	177.77	-14.03	205.39	-15.18	230.03	-19.30	260.00	-16.02	229.85
South	L26-L27	27	100.00 ft	22.22%	---	244.29	-11.12	146.85	-4.49	116.85	-5.12	66.55	-7.63	99.57	-8.67	113.72	-9.28	128.24	-10.05	150.38	-8.53	127.20
South	L27-L28	28	100.00 ft	22.22%	---	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South	L28-L29	29	170.00 ft	16.95%	---	-236.21	-111.51	11.53	-98.18	5.55	-49.66	5.25	-74.67	7.84	-85.80	8.94	-103.01	10.01	-121.29	10.97	-102.27	8.54
South	L29-L30	30	170.00 ft	16.95%	---	-433.84	-169.24	19.67	-169.60	10.96	-75.44	9.03	-113.43	13.46	-130.29	15.36	-161.44	17.26	-191.05	21.50	-160.40	16.02
South	L30-L31	31	170.00 ft	16.95%	---	-437.69	-170.73	19.84	-171.09	11.05	-76.11	9.11	-114.43	13.58	-131.44	15.50	-162.87	17.41	-192.74	21.69	-161.81	16.17
South	L31-L32	32	170.00 ft	16.95%	---	-199.56	-190.19	102.27	-131.19	98.11	-84.56	45.95	-127.21	68.65	-146.19	79.17	-182.22	100.11	-207.97	119.55	-182.21	108.66
South	L32-L33	33	200.00 ft	15.38%	---	97.40	-212.51	220.52	-132.19	230.62	-94.43	98.10	-142.08	147.00	-163.29	171.15	-203.90	220.98	-233.29	260.05	-204.92	241.24
South	L33-L34	34	200.00 ft	15.38%	---	434.64	-233.81	356.34	-146.31	393.99	-103.88	157.38	-156.29	237.66	-179.68	275.90	-224.67	358.85	-257.98	421.57	-226.52	395.27
South	L34-L35	35	200.00 ft	15.38%	---	735.33	-237.10	473.79	-151.92	551.98	-105.38	208.66	-158.51	316.54	-182.30	366.56	-228.19	475.71	-262.66	569.98	-230.50	526.28
South	L35-L36	36	200.00 ft	15.38%	---	657.01	-207.11	430.42	-152.78	502.19	-92.55	189.40	-138.51	286.00	-161.12	332.60	-206.80	431.24	-235.79	520.91	-213.13	481.44
South	L36-L37	37	200.00 ft	15.38%	---	344.24	-198.83	312.15	-147.84	336.13	-88.88	136.50	-133.03	206.44	-154.74	240.21	-198.63	314.31	-227.44	378.88	-205.09	351.25
South	L37-L38	38	200.00 ft	15.38%	---	23.53	-174.73	206.29	-152.95	199.29	-78.10	90.56	-116.89	137.00	-135.97	159.06	-174.55	205.69	-215.79	248.20	-195.50	226.43
South	L38-L39	39	180.00 ft	16.39%	---	-245.17	-165.94	145.86	-216.02	155.22	-73.24	62.48	-110.11	94.92	-128.22	110.58	-167.94	151.53	-241.02	203.43	-218.43	186.04
South	L39-L40	40	180.00 ft	16.39%	---	-470.08	-184.64	142.53	-278.68	143.78	-79.79	60.67	-120.90	92.53	-141.20	107.98	-191.63	148.63	-284.07	203.35	-252.88	180.24
South	L40-L41	41	180.00 ft	16.39%	---	-447.02	-165.15	19.85	-170.01	15.85	-73.58	8.59	-110.28	13.03	-128.21	15.13	-165.37	20.31	-195.93	29.81	-175.30	22.34
South	L41-L42	42	180.00 ft	16.39%	---	-242.04	-102.40	10.00	-96.84	7.71	-45.56	4.29	-68.32	6.54	-78.28	7.60	-100.37	10.15	-121.21	15.07	-104.37	11.24
South	L42-L43	43	120.00 ft	20.41%	---	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South	L43-L44	44	120.00 ft	20.41%	---	277.08	-9.41	134.63	-3.47	119.10	-4.57	61.47	-6.70	91.35	-7.64	104.54	-7.93	126.91	-10.48	146.92	-8.23	128.34
South	L44-L45	45	120.00 ft	20.41%	5.52%	539.36	-16.84	248.96	-5.51	235.72	-7.87	113.82	-11.76	169.49	-13.44	196.45	-15.13	234.53	-19.27	265.38	-15.56	234.99
South	L45-L46	46	120.00 ft	20.41%	5.54%	530.31	-15.17	245.99	-5.01	233.94	-6.80	111.63	-10.23	166.98	-11.73	192.05	-13.99	229.79	-18.24	262.58	-15.55	231.12
South	L46-L47	47	120.00 ft	20.41%	6.23%	262.66	-6.53	123.39	-2.24	114.05	-2.98	55.20	-4.45	82.94	-5.07	95.11	-5.80	113.25	-8.17	133.66	-6.91	114.88
South	L47-L48	48	120.00 ft	20.41%	7.21%	2.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South	L48-L49	49	210.00 ft	14.93%	6.29%	-238.60	-89.13	6.99	-94.00	4.67	-39.37	3.05	-59.66	4.62	-69.12	5.35	-85.42	6.54	-103.46	10.52	-90.11	8.32
South	L49-L50	50	210.00 ft	14.93%	5.76%	-438.38	-137.46	11.55	-164.65	10.58	-60.42	5.11	-92.08	7.71	-106.61	8.89	-134.23	10.64	-166.20	20.84	-146.35	17.37
South	L50-L51	51	210.00 ft	14.93%	9.40%	-415.55	-125.98	10.59	-156.12	10.03	-55.38	4.68	-84.39	7.07	-97.70	8.14	-123.02	9.75	-152.32	19.10	-134.13	15.92

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
South	L51-L52	52	210.00 ft	14.93%	10.85%	-180.73	-136.45	67.82	-120.18	73.53	-59.91	29.95	-91.30	45.40	-105.72	52.57	-133.69	65.97	-157.03	80.42	-140.24	71.74
South	L52-L53	53	260.00 ft	12.99%	8.53%	89.40	-151.34	145.85	-123.09	173.62	-66.27	63.86	-101.05	96.98	-117.02	112.62	-148.74	146.13	-175.77	174.81	-156.63	160.73
South	L53-L54	54	260.00 ft	12.99%	7.01%	395.56	-169.04	236.83	-135.82	299.86	-73.96	103.22	-112.77	157.16	-130.60	182.51	-166.39	240.44	-197.24	281.95	-175.43	266.33
South	L54-L55	55	260.00 ft	12.99%	6.06%	704.84	-183.66	332.95	-148.61	441.60	-80.21	144.87	-122.36	220.73	-141.76	256.65	-181.66	338.72	-214.65	414.20	-191.22	377.34
South	L55-L56	56	260.00 ft	12.99%	5.59%	960.13	-195.09	417.16	-156.45	578.44	-85.03	180.84	-129.88	275.67	-150.66	320.95	-194.26	421.75	-226.88	528.66	-203.37	487.13
South	L56-L57	57	260.00 ft	12.99%	5.59%	843.17	-234.10	399.63	-176.38	560.28	-101.81	173.49	-155.35	264.43	-180.35	307.74	-235.25	406.48	-265.06	511.93	-240.69	472.50
South	L57-L58	58	260.00 ft	12.99%	6.06%	512.19	-228.56	309.21	-174.02	409.49	-99.46	134.77	-151.78	205.28	-176.23	238.57	-229.89	313.58	-257.71	392.00	-234.14	366.96
South	L58-L59	59	260.00 ft	12.99%	7.01%	167.50	-210.02	227.23	-173.27	269.64	-91.38	98.34	-139.46	150.21	-161.92	174.58	-211.23	231.79	-242.93	288.63	-221.20	271.60
South	L59-L60	60	260.00 ft	12.99%	8.53%	-144.05	-184.63	158.87	-229.92	202.40	-80.34	69.16	-122.60	105.41	-142.36	122.46	-185.72	164.43	-266.21	231.77	-234.76	209.61
South	L60-L61	61	220.00 ft	14.49%	10.89%	-400.87	-176.97	136.70	-295.91	186.73	-76.43	58.15	-116.60	89.01	-135.73	103.88	-182.30	143.47	-280.80	212.15	-249.79	193.82
South	L61-L62	62	220.00 ft	14.49%	12.31%	-641.45	-193.66	145.00	-364.97	187.45	-82.74	61.51	-126.53	94.19	-147.58	110.07	-202.49	152.72	-318.03	226.30	-285.22	202.60
South	L62-L63	63	220.00 ft	14.49%	---	-726.37	-230.37	29.46	-258.00	24.09	-100.06	12.68	-152.92	19.45	-177.40	22.57	-231.57	29.92	-275.67	44.62	-252.74	35.54
South	L63-L64	64	220.00 ft	14.49%	---	-498.37	-180.29	19.53	-187.64	16.58	-78.43	8.45	-119.61	12.87	-138.94	14.94	-178.77	19.82	-212.53	29.83	-193.44	25.16
South	L64-L65	65	220.00 ft	14.49%	---	-265.31	-109.42	11.42	-105.22	9.81	-47.58	4.96	-72.02	7.51	-83.84	8.76	-106.33	11.64	-129.22	17.78	-110.75	14.81
South	L65-L66	66	120.00 ft	20.41%	---	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South	L66-L67	67	120.00 ft	20.41%	---	281.09	-12.04	142.02	-3.94	124.08	-5.40	62.69	-8.19	94.91	-9.44	109.94	-10.69	131.60	-14.68	156.80	-10.95	134.39
South	L67-L68	68	120.00 ft	20.41%	---	524.18	-19.23	256.77	-5.87	231.05	-8.70	114.31	-13.33	174.36	-15.27	200.91	-17.89	241.71	-22.75	274.98	-18.19	242.22
South	L68-L69	69	120.00 ft	20.41%	---	514.39	-18.00	249.90	-6.53	227.42	-8.08	111.64	-12.40	170.53	-14.25	196.81	-17.10	236.38	-23.01	269.28	-18.96	237.42
South	L69-L70	70	120.00 ft	20.41%	---	272.79	-10.13	135.05	-4.46	121.16	-4.54	60.13	-6.83	90.57	-7.97	104.85	-9.47	126.42	-14.63	150.72	-11.41	127.67
South	L70-L71	71	120.00 ft	20.41%	---	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South	L71-L72	72	250.00 ft	13.33%	---	-255.56	-100.91	8.01	-100.65	4.62	-44.32	3.52	-67.02	5.31	-77.45	6.17	-97.60	7.79	-120.54	13.26	-104.82	10.32
South	L72-L73	73	250.00 ft	13.33%	---	-481.67	-165.25	14.95	-181.05	8.80	-72.47	6.59	-110.18	10.03	-128.03	11.59	-163.67	14.24	-199.55	23.09	-178.11	18.56
South	L73-L74	74	250.00 ft	13.33%	---	-691.80	-199.95	19.78	-247.08	15.88	-87.11	8.74	-133.15	13.25	-154.68	15.33	-200.78	18.93	-252.89	36.09	-234.59	30.67
South	L74-L75	75	250.00 ft	13.33%	---	-687.11	-198.68	19.66	-245.44	15.78	-86.56	8.68	-132.31	13.17	-153.69	15.24	-199.51	18.82	-251.24	35.86	-233.06	30.48
South	L75-L76	76	250.00 ft	13.33%	---	-409.07	-219.95	81.30	-202.01	108.00	-95.70	35.18	-146.24	53.49	-169.95	62.23	-221.56	82.06	-251.82	114.58	-230.91	104.25
South	L76-L77	77	320.00 ft	11.24%	---	-91.58	-248.28	174.49	-184.11	250.40	-107.96	74.91	-164.95	114.40	-191.73	133.30	-250.38	179.20	-288.79	245.05	-262.29	221.61
South	L77-L78	78	320.00 ft	11.24%	---	279.18	-287.79	288.69	-220.03	433.48	-124.94	123.50	-190.90	188.90	-222.02	220.12	-291.59	300.05	-338.58	400.09	-307.86	376.33
South	L78-L79	79	320.00 ft	11.24%	---	679.40	-331.68	419.17	-258.41	652.70	-143.87	179.33	-219.81	274.47	-255.71	319.83	-336.68	437.21	-393.17	597.35	-357.49	551.74
South	L79-L80	80	320.00 ft	11.24%	---	1039.77	-367.42	541.73	-296.33	871.15	-158.94	231.95	-242.85	354.69	-282.70	413.60	-375.07	566.64	-437.56	784.41	-399.83	720.58
South	L80-L81	81	320.00 ft	11.24%	---	1264.57	-396.02	637.33	-328.90	1051.56	-170.73	273.01	-260.76	417.20	-303.69	486.87	-407.03	664.71	-473.07	927.32	-436.24	860.12
South	L81-L82	82	320.00 ft	11.24%	---	1292.91	-434.87	685.93	-376.47	1161.87	-186.76	293.65	-285.42	448.73	-332.58	523.99	-451.85	712.98	-529.11	1007.84	-495.79	929.75
South	L82-L83	83	320.00 ft	11.24%	---	762.32	-545.61	659.37	-484.17	1125.94	-234.00	282.71	-357.78	432.33	-417.23	504.00	-566.90	688.37	-664.04	977.47	-622.40	900.37
South	L83-L84	84	320.00 ft	11.24%	---	254.46	-568.82	588.81	-509.06	979.17	-243.95	252.51	-373.00	386.03	-434.98	450.35	-591.00	614.94	-692.35	864.53	-649.00	798.50
South	L84-L85	85	320.00 ft	11.24%	---	-323.00	-567.37	492.05	-510.65	785.83	-243.33	210.47	-372.05	321.52	-433.87	375.07	-589.49	517.35	-690.64	735.92	-647.44	674.16
South	L85-L86	86	320.00 ft	11.24%	---	-878.08	-535.98	393.03	-548.98	574.18	-229.87	167.99	-351.46	256.66	-409.87	299.64	-556.87	412.41	-677.95	581.06	-631.42	533.85
South	L86-L87	87	300.00 ft	11.76%	---	-1330.59	-487.20	295.95	-610.80	419.93	-208.95	126.67	-319.48	193.57	-372.57	225.95	-506.20	308.77	-701.92	460.86	-641.92	415.13
South	L87-L88	88	300.00 ft	11.76%	---	-1676.81	-433.16	224.59	-659.07	338.94	-185.77	95.49	-284.04	146.23	-331.24	170.70	-450.05	237.35	-694.28	403.91	-625.79	356.98
South	L88-L89	89	300.00 ft	11.76%	---	-1946.58	-386.28	194.03	-701.94	299.11	-165.66	82.05	-253.30	125.61	-295.39	146.88	-402.27	207.52	-678.67	378.45	-611.37	330.28
South	L89-L90	90	300.00 ft	11.76%	---	-2215.98	-368.12	194.20	-757.79	280.97	-156.48	82.02	-239.14	125.53	-279.72	146.89	-389.63	208.52	-686.85	380.35	-612.25	325.36
South	L90-L91	91	300.00 ft	11.76%	---	-2378.69	-451.41	55.06	-710.96	32.34	-193.80	23.92	-296.09	36.41	-345.39	42.23	-467.95	55.88	-674.69	77.67	-597.05	59.72
South	L91-L92	92	300.00 ft	11.76%	---	-2109.80	-431.94	40.42	-644.33	23.24	-185.70	17.50	-283.85	26.68	-330.79	30.93	-447.53	41.21	-622.18	65.75	-555.34	51.26
South	L92-L93	93	300.00 ft	11.76%	---	-1899.81	-423.96	35.22	-597.22	20.13	-182.15	15.08	-278.62	23.18	-324.20	26.95	-437.27	36.40	-583.02	61.50	-521.33	48.39
South	L93-L94	94	300.00 ft	11.76%	---	-1641.00	-401.78	33.21	-531.31	17.39	-172.78	14.24	-264.00	21.82	-307.43	25.38	-411.30	34.02	-532.28	57.89	-471.78	44.58
South	L94-L95	95	300.00 ft	11.76%	---	-1244.24	-337.68	28.58	-414.91	13.74	-145.44	12.27	-221.64	18.70	-258.18	21.85	-340.10	28.78	-436.83	47.49	-387.53	38.00
South	L95-L96	96	300.00 ft	11.76%	---	-662.58	-198.25	16.06	-225.42	7.24	-85.54	6.96	-129.34	10.50	-151.34	12.32	-198.57	16.24	-251.39	26.80	-226.94	21.86
South	L96-L97	97	160.00 ft	17.54%	---	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South	L97-L98	98	160.00 ft	17.54%	---	585.88	-16.24	207.42	-5.70	217.89	-7.08	90.00	-10.62	136.12	-12.51	158.76	-15.99	203.73	-24.42	249.45	-20.22	224.83
South	L98-L99	99	160.00 ft	17.54%	---	1043.22	-27.76	362.47	-9.54	385.17	-12.06	158.00	-18.45	240.89	-21.38	279.69	-27.26	357.53	-39.49	425.23	-32.19	382.96
South	L99-L100	100	160.00 ft	17.54%	---	1341.45	-33.07	455.55	-11.10	489.69	-14.38	199.84	-22.10	304.98	-25.61	353.59	-32.90	450.06	-46.67	528.62	-38.69	483.00
South	L100-L101	101	160.00 ft	17.54%	---	1379.53	-34.01	466.99	-11.74	502.80	-14.92	204.94	-22.80	313.11	-26.39	363.19	-33.93	462.10	-48.22	541.82	-40.06	494.84
South	L101-L102	102	160.00 ft	17.54%	---	1092.83	-29.05	376.88	-10.35	402.70	-12.73	165.32	-19.53	251.50	-22.64	292.10	-28.94	374.07	-41.72	444.97	-34.13	399.88

TranSystems

Made By SFH Date 3/30/2012
Checked By DWC Date 3/30/2012

Loading Per AASHTO 17th Standard Edition and ODOT Bridge Design Manual 2004 Ed
Impact Per AASHTO 3.8.2 Multiple Presence per AASHTO 3.12.1
* Based on C = 9.47% for Bend Point 1 (R = 1762.95'), C = 16.7% for Bend Point 2 (R = 1000')

Job No. P402110046
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
South	L102-L103	103	160.00 ft	17.54%	---	624.71	-17.76	220.33	-6.43	232.22	-7.83	96.07	-11.80	145.56	-13.69	168.38	-17.36	217.21	-26.72	265.50	-22.05	241.19
South	L103-L104	104	160.00 ft	17.54%	---	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South	L104-L105	105	290.00 ft	12.05%	---	-732.11	-213.90	15.78	-246.91	6.18	-92.49	6.79	-140.47	10.31	-162.95	11.98	-214.79	16.03	-274.57	28.33	-247.21	22.75
South	L105-L106	106	290.00 ft	12.05%	---	-1359.91	-361.60	28.87	-452.60	13.42	-156.49	12.46	-237.60	19.00	-277.24	22.21	-366.75	29.64	-475.01	52.55	-421.58	41.07
South	L106-L107	107	290.00 ft	12.05%	---	-1798.58	-435.85	36.22	-584.29	18.26	-188.14	15.56	-287.20	23.89	-334.46	27.82	-448.11	37.14	-583.38	66.00	-515.52	52.32
South	L107-L108	108	290.00 ft	12.05%	---	-2085.58	-465.77	41.34	-664.76	23.47	-200.47	17.95	-306.85	27.45	-357.35	31.87	-481.98	42.13	-648.35	76.14	-579.85	60.98
South	L108-L109	109	290.00 ft	12.05%	---	-2336.06	-483.60	45.59	-728.61	29.09	-208.08	19.80	-318.19	30.20	-370.81	35.14	-501.53	46.48	-701.92	83.90	-625.59	67.37
South	L109-L110	110	290.00 ft	12.05%	---	-2549.65	-491.01	58.08	-780.65	34.00	-211.16	25.18	-322.77	38.41	-376.04	44.75	-509.29	59.12	-737.56	97.05	-653.05	78.06
South	L110-L111	111	290.00 ft	12.05%	---	-1852.95	-357.84	222.24	-683.27	298.31	-152.71	92.94	-233.57	142.47	-272.70	167.11	-375.74	243.14	-666.26	436.24	-592.23	392.06
South	L111-L112	112	290.00 ft	12.05%	---	-1552.94	-385.01	226.01	-641.71	320.54	-165.34	94.51	-252.55	144.83	-294.57	169.88	-400.34	247.37	-658.25	436.92	-593.92	394.29
South	L112-L113	113	290.00 ft	12.05%	---	-1232.35	-427.49	242.08	-611.18	373.84	-183.59	103.52	-280.44	158.05	-327.06	184.60	-444.43	264.73	-668.59	458.71	-603.78	415.31
South	L113-L114	114	290.00 ft	12.05%	---	-840.98	-475.86	313.59	-573.02	460.96	-204.38	133.75	-312.19	204.00	-364.07	238.78	-494.69	331.34	-672.44	486.82	-615.89	443.19
South	L114-L115	115	290.00 ft	12.05%	---	-338.66	-514.19	391.70	-515.44	596.08	-220.85	166.78	-337.34	254.71	-393.40	297.98	-534.53	415.56	-642.69	587.76	-597.71	552.81
South	L115-L116	116	320.00 ft	11.24%	---	235.66	-522.53	454.92	-467.42	749.30	-224.42	193.54	-342.80	295.71	-399.78	345.79	-543.23	482.79	-635.93	692.52	-596.30	644.25
South	L116-L117	117	320.00 ft	11.24%	11.34%	787.79	-453.33	456.40	-449.80	865.20	-194.69	195.19	-297.38	297.98	-346.83	348.00	-471.33	480.00	-551.78	677.61	-517.42	634.74
South	L117-L118	118	320.00 ft	11.24%	11.14%	1257.41	-419.79	486.00	-414.40	937.31	-180.27	207.87	-275.36	317.34	-321.17	370.70	-436.52	509.23	-511.05	728.20	-479.26	678.38
South	L118-L119	119	320.00 ft	11.24%	11.04%	1862.29	-334.47	499.66	-325.80	953.90	-143.60	213.78	-219.34	326.69	-255.86	381.31	-347.91	523.17	-407.40	737.90	-382.11	689.50
South	L119-L120	120	320.00 ft	11.24%	11.12%	1928.35	-278.36	468.44	-268.84	871.25	-119.49	200.48	-182.52	306.38	-212.92	357.65	-289.61	490.89	-339.18	684.73	-318.17	640.20
South	L120-L121	121	320.00 ft	11.24%	11.51%	1806.19	-215.83	407.32	-206.13	737.42	-92.62	174.49	-141.51	266.71	-165.07	311.25	-224.62	427.16	-263.11	593.61	-246.86	546.91
South	L121-L122	122	320.00 ft	11.24%	12.34%	1516.44	-153.72	326.62	-144.39	569.80	-65.95	140.37	-100.78	214.34	-117.55	249.96	-160.06	341.00	-187.53	466.22	-176.08	436.02
South	L122-L123	123	320.00 ft	11.24%	13.74%	1130.14	-98.55	235.10	-90.49	395.44	-42.25	101.44	-64.59	154.49	-75.34	180.18	-102.77	244.06	-120.31	328.12	-113.11	310.99
South	L123-L124	124	320.00 ft	11.24%	15.81%	709.74	-53.74	145.63	-47.81	236.73	-23.02	63.25	-35.20	96.05	-41.06	111.77	-56.16	148.61	-65.98	204.05	-61.85	188.36
South	L124-L125	125	320.00 ft	11.24%	18.69%	311.43	-20.93	62.54	-18.07	98.79	-8.64	27.45	-13.56	41.53	-15.88	47.98	-21.30	63.15	-24.87	88.54	-23.33	80.46
South	L125-L126	126	320.00 ft	11.24%	15.66%	-13.47	-13.53	12.42	-24.01	14.73	-5.66	5.22	-8.69	8.00	-10.18	9.37	-14.65	13.33	-22.97	21.17	-21.26	18.97
South	U0-U1	127	140.00 ft	18.87%	---	-319.53	-127.83	10.28	-121.74	5.28	-57.49	4.98	-85.89	7.24	-98.24	8.23	-123.57	8.67	-145.28	9.50	-127.40	7.56
South	U1-U2	128	140.00 ft	18.87%	---	-668.02	-260.79	19.09	-253.22	10.41	-117.80	9.11	-175.48	13.49	-204.24	15.16	-252.87	16.23	-289.41	18.10	-257.31	14.87
South	U2-U3	129	140.00 ft	18.87%	---	-965.70	-372.36	25.67	-365.87	13.48	-168.02	12.10	-253.45	17.92	-291.90	20.27	-357.70	21.81	-403.72	25.37	-365.64	21.34
South	U3-U4	130	140.00 ft	18.87%	---	-1109.49	-429.66	28.47	-420.16	14.36	-192.63	13.39	-288.89	19.74	-335.52	22.42	-409.40	24.26	-463.31	28.68	-413.66	24.77
South	U4-U5	131	140.00 ft	18.87%	---	-944.59	-372.91	24.22	-359.81	10.58	-166.20	11.35	-249.84	16.77	-286.96	18.91	-355.22	20.64	-412.39	28.22	-356.10	23.58
South	U5-U6	132	140.00 ft	18.87%	---	-944.59	-372.96	24.31	-359.83	10.66	-166.21	11.39	-249.87	16.83	-286.99	18.97	-355.25	20.71	-412.42	28.27	-356.12	23.62
South	U6-U7	133	140.00 ft	18.87%	---	-540.65	-218.89	14.32	-207.49	5.54	-96.44	6.62	-145.46	9.83	-167.64	11.12	-208.96	12.10	-249.99	18.18	-215.86	14.46
South	U7-U8	134	200.00 ft	15.38%	---	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South	U8-U9	135	200.00 ft	15.38%	---	482.68	-11.59	166.78	-5.36	174.68	-5.13	72.90	-7.73	110.20	-8.90	127.34	-10.88	163.20	-16.37	197.00	-14.85	180.60
South	U9-U10	136	200.00 ft	15.38%	---	842.10	-18.19	257.61	-8.54	296.79	-8.05	112.55	-12.13	170.18	-13.96	196.67	-17.53	254.43	-29.15	316.16	-24.57	288.07
South	U10-U11	137	200.00 ft	15.38%	---	945.36	-118.59	342.45	-119.08	345.40	-52.70	149.52	-79.04	226.13	-90.77	261.55	-117.70	344.89	-141.75	394.18	-129.09	348.09
South	U11-U12	138	200.00 ft	15.38%	---	752.63	-263.87	390.99	-281.34	308.96	-117.16	170.85	-175.58	258.34	-204.52	298.88	-265.35	393.55	-314.01	447.85	-291.20	351.66
South	U12-U13	139	200.00 ft	15.38%	---	498.26	-417.73	419.91	-466.85	252.07	-184.37	183.62	-278.31	277.59	-323.32	321.22	-421.15	422.41	-494.25	479.32	-465.09	339.07
South	U13-U14	140	200.00 ft	15.38%	---	261.39	-547.39	420.97	-642.96	195.54	-241.13	184.22	-365.73	278.45	-423.43	322.24	-550.12	423.20	-659.70	479.42	-610.54	357.74
South	U14-U15	141	200.00 ft	15.38%	---	116.39	-585.42	375.26	-723.00	223.13	-256.84	165.50	-389.47	249.72	-452.24	289.06	-584.26	374.61	-714.84	426.03	-646.21	350.82
South	U15-U16	142	200.00 ft	15.38%	---	116.39	-585.44	375.28	-723.01	223.13	-256.85	165.51	-389.48	249.73	-452.26	289.08	-584.28	374.63	-714.86	426.06	-646.23	350.83
South	U16-U17	143	200.00 ft	15.38%	---	133.14	-525.10	376.30	-621.66	253.56	-230.63	167.40	-348.11	252.08	-405.22	292.52	-528.05	372.56	-639.60	415.34	-590.26	370.15
South	U17-U18	144	200.00 ft	15.38%	---	264.63	-377.40	358.85	-423.78	242.67	-165.89	159.61	-250.22	240.36	-290.96	278.93	-377.98	355.32	-451.94	398.22	-421.50	353.31
South	U18-U19	145	180.00 ft	16.39%	---	438.66	-231.08	320.03	-239.03	227.86	-102.24	142.32	-153.98	214.32	-178.20	248.73	-227.60	316.93	-272.85	357.37	-249.22	315.42
South	U19-U20	146	180.00 ft	16.39%	---	574.78	-106.50	267.76	-92.88	241.54	-47.50	119.05	-71.20	179.28	-81.81	208.08	-102.23	265.21	-120.88	301.27	-109.66	264.24
South	U20-U21	147	180.00 ft	16.39%	---	527.90	-30.32	197.47	-25.99	206.40	-13.96	88.80	-20.81	132.91	-23.66	154.15	-30.21	192.99	-40.08	236.62	-35.60	198.32
South	U21-U22	148	180.00 ft	16.39%	---	306.10	-39.09	131.63	-28.03	124.48	-18.07	59.05	-26.79	88.35	-30.35	101.71	-33.69	125.13	-40.11	157.28	-33.43	126.65
South	U22-U23	149	180.00 ft	16.39%	---	-0.85	-50.66	50.59	-29.35	32.85	-22.65	22.61	-34.22	34.15	-39.53	39.46	-50.10	50.10	-63.58	63.57	-46.81	46.73
South	U23-U24	150	100.00 ft	22.22%	---	-312.01	-209.46	47.61	-162.11	29.53	-97.80	21.28	-144.24	32.15	-166.36	37.10	-194.51	45.70	-221.77	60.00	-188.00	43.64
South	U24-U25	151	100.00 ft	22.22%	---	-481.97	-292.66	37.88	-240.28	22.29	-135.68	16.97	-203.12	25.56	-232.95	29.55	-265.77	35.85	-291.01	44.78	-261.75	35.38
South	U25-U26	152	100.00 ft	22.22%	---	-481.97	-292.61	37.90	-240.28	22.29	-135.66	16.98	-203.10	25.57	-232.92	29.56	-265.70	35.87	-290.97	44.78	-261.69	35.41
South	U26-U27	153	100.00 ft	22.22%	---	-447.86	-268.62	26.49	-218.31	12.93	-124.05	12.16	-184.30	18.11	-212.89	20.87	-241.91	24.71	-270.21	29.41	-239.67	22.90

TranSystems

Made By SFH Date 3/30/2012
Checked By DWC Date 3/30/2012

Loading Per AASHTO 17th Standard Edition and ODOT Bridge Design Manual 2004 Ed
Impact Per AASHTO 3.8.2 Multiple Presence per AASHTO 3.12.1
* Based on C = 9.47% for Bend Point 1 (R = 1762.95'), C = 16.7% for Bend Point 2 (R = 1000')

Job No. P402110046
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
South	U27-U28	154	100.00 ft	22.22%	---	-239.35	-147.83	13.04	-116.30	5.35	-66.83	5.89	-100.06	8.82	-114.34	10.10	-130.10	11.71	-152.78	15.61	-129.56	11.45
South	U28-U29	155	170.00 ft	16.95%	---	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South	U29-U30	156	170.00 ft	16.95%	---	203.50	-8.73	97.92	-3.98	85.95	-3.85	43.43	-5.81	65.39	-6.71	75.20	-8.30	91.35	-11.79	109.03	-8.92	92.28
South	U30-U31	157	170.00 ft	16.95%	---	172.02	-88.61	169.88	-91.64	107.73	-39.24	75.43	-58.91	113.51	-67.61	130.53	-88.50	162.84	-108.70	185.95	-99.48	162.82
South	U31-U32	158	170.00 ft	16.95%	---	-87.46	-211.83	207.41	-226.32	128.13	-94.00	92.15	-140.95	138.64	-164.10	159.43	-213.73	198.94	-252.44	226.91	-234.53	199.00
South	U32-U33	159	200.00 ft	15.38%	---	-419.47	-354.00	234.08	-394.08	144.54	-156.22	104.07	-235.65	156.53	-273.92	180.05	-357.02	224.69	-418.92	256.92	-393.65	224.71
South	U33-U34	160	200.00 ft	15.38%	---	-726.66	-480.16	242.12	-561.25	150.85	-211.64	107.80	-320.96	161.97	-371.52	186.52	-482.85	233.09	-577.53	266.91	-533.94	232.72
South	U34-U35	161	200.00 ft	15.38%	---	-822.07	-514.46	216.87	-631.43	150.10	-225.78	96.98	-342.31	145.34	-397.47	167.88	-512.80	210.31	-625.75	239.73	-566.70	209.93
South	U35-U36	162	200.00 ft	15.38%	---	-822.07	-514.50	216.89	-631.44	150.10	-225.80	96.99	-342.32	145.35	-397.50	167.90	-512.83	210.33	-625.77	239.76	-566.72	209.94
South	U36-U37	163	200.00 ft	15.38%	---	-641.69	-435.84	209.12	-513.22	164.57	-191.69	93.15	-289.00	139.58	-336.54	162.18	-438.47	208.29	-529.68	247.69	-489.45	218.48
South	U37-U38	164	200.00 ft	15.38%	---	-321.12	-306.96	197.46	-342.58	158.50	-135.05	87.80	-203.72	131.75	-236.64	152.88	-306.78	196.39	-368.05	236.79	-341.95	207.18
South	U38-U39	165	180.00 ft	16.39%	---	-4.50	-170.16	161.88	-173.92	134.52	-75.50	71.80	-113.62	107.96	-131.44	125.10	-167.38	160.76	-200.67	197.55	-183.27	170.89
South	U39-U40	166	180.00 ft	16.39%	---	215.37	-74.49	129.55	-62.13	121.32	-33.33	57.22	-50.05	86.25	-57.47	99.93	-70.53	128.36	-83.04	161.07	-74.70	138.23
South	U40-U41	167	180.00 ft	16.39%	---	227.22	-20.52	71.52	-18.01	95.02	-9.57	31.41	-14.21	47.44	-16.10	55.01	-18.91	69.65	-24.76	94.19	-21.74	79.74
South	U41-U42	168	180.00 ft	16.39%	---	28.46	-28.10	29.10	-18.27	29.95	-12.82	13.04	-19.37	19.67	-22.24	22.75	-26.75	27.78	-35.11	37.61	-24.47	28.04
South	U42-U43	169	120.00 ft	20.41%	---	-242.61	-142.82	30.96	-112.42	26.91	-65.21	13.80	-96.88	20.79	-111.57	23.99	-136.32	28.39	-162.19	40.09	-131.92	27.01
South	U43-U44	170	120.00 ft	20.41%	---	-518.43	-269.23	30.94	-232.45	21.45	-122.50	13.92	-182.75	21.00	-211.88	24.15	-255.91	28.99	-289.54	39.57	-249.88	28.79
South	U44-U45	171	120.00 ft	20.41%	5.52%	-630.90	-301.28	25.51	-286.57	16.43	-136.53	11.44	-206.49	17.22	-237.46	19.87	-275.54	23.64	-307.16	31.55	-277.53	23.72
South	U45-U46	172	120.00 ft	20.41%	5.54%	-630.89	-301.24	25.52	-286.56	16.41	-136.51	11.44	-206.45	17.22	-237.42	19.87	-275.48	23.65	-307.11	31.52	-277.48	23.69
South	U46-U47	173	120.00 ft	20.41%	6.23%	-519.01	-248.42	17.80	-231.20	9.21	-112.74	8.12	-168.65	12.14	-193.97	13.83	-232.73	16.14	-265.92	21.81	-232.82	15.99
South	U47-U48	174	120.00 ft	20.41%	7.21%	-246.95	-120.02	7.56	-109.34	3.29	-53.62	3.38	-80.59	5.08	-92.46	5.83	-110.45	6.84	-131.01	9.39	-111.86	6.93
South	U48-U49	175	210.00 ft	14.93%	6.29%	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South	U49-U50	176	210.00 ft	14.93%	5.76%	169.77	-4.58	67.52	-2.52	67.31	-1.95	29.76	-2.98	45.13	-3.48	52.31	-4.58	64.94	-6.81	78.08	-5.46	67.95
South	U50-U51	177	210.00 ft	14.93%	9.40%	143.81	-56.90	117.59	-69.27	92.14	-24.75	51.55	-37.64	78.61	-43.53	91.07	-56.94	115.30	-72.06	133.13	-64.89	118.94
South	U51-U52	178	210.00 ft	14.93%	10.85%	-72.09	-132.50	140.84	-169.72	112.59	-57.74	61.73	-87.75	94.12	-101.90	109.04	-133.86	138.26	-160.88	159.77	-149.89	142.86
South	U52-U53	179	260.00 ft	12.99%	8.53%	-362.82	-228.76	166.53	-301.19	130.79	-99.52	72.97	-151.46	111.24	-176.12	128.87	-233.20	163.65	-275.40	189.45	-260.40	169.10
South	U53-U54	180	260.00 ft	12.99%	7.01%	-669.25	-331.61	186.72	-449.82	144.42	-144.11	81.71	-219.56	124.64	-255.37	144.39	-338.46	184.20	-414.44	213.15	-378.14	189.68
South	U54-U55	181	260.00 ft	12.99%	6.06%	-931.70	-425.86	203.51	-597.76	154.14	-184.56	88.91	-281.38	135.77	-327.57	157.47	-431.74	201.91	-540.84	232.34	-498.70	206.47
South	U55-U56	182	260.00 ft	12.99%	5.59%	-978.56	-453.22	222.03	-660.50	171.00	-196.59	96.49	-299.46	147.29	-348.69	171.02	-460.07	223.17	-567.40	255.88	-533.94	228.30
South	U56-U57	183	260.00 ft	12.99%	5.59%	-978.55	-453.25	222.03	-660.51	171.00	-196.60	96.49	-299.47	147.29	-348.72	171.02	-460.12	223.17	-567.42	255.89	-533.96	228.30
South	U57-U58	184	260.00 ft	12.99%	6.06%	-802.03	-410.06	250.04	-585.62	194.77	-177.76	108.61	-270.93	165.79	-315.49	192.57	-418.24	251.25	-529.06	290.92	-488.69	257.52
South	U58-U59	185	260.00 ft	12.99%	7.01%	-455.34	-311.66	241.97	-430.34	191.76	-135.45	105.08	-206.12	160.35	-239.95	186.34	-317.72	243.07	-397.79	284.76	-362.45	249.71
South	U59-U60	186	260.00 ft	12.99%	8.53%	-105.66	-211.66	220.03	-278.70	178.35	-92.31	95.53	-140.41	145.74	-163.23	169.42	-214.21	220.95	-257.60	261.82	-243.42	227.52
South	U60-U61	187	220.00 ft	14.49%	10.89%	189.35	-122.65	187.54	-148.65	160.97	-54.01	81.41	-82.02	124.17	-95.19	144.38	-121.90	188.29	-147.49	226.26	-136.06	194.44
South	U61-U62	188	220.00 ft	14.49%	12.31%	388.87	-56.21	153.73	-57.44	174.76	-24.92	66.70	-37.78	101.81	-43.89	118.33	-54.59	154.30	-64.48	188.53	-58.99	159.88
South	U62-U63	189	220.00 ft	14.49%	---	386.65	-23.16	127.86	-23.21	150.25	-10.35	55.47	-15.67	84.53	-18.07	98.22	-21.71	126.09	-33.13	160.84	-29.88	140.06
South	U63-U64	190	220.00 ft	14.49%	---	221.45	-24.78	84.03	-23.07	93.36	-11.27	36.35	-16.87	55.44	-19.44	64.48	-22.22	81.94	-32.29	110.62	-28.49	94.32
South	U64-U65	191	220.00 ft	14.49%	---	-11.35	-34.50	32.53	-32.19	32.55	-15.21	14.33	-23.16	21.82	-26.90	25.34	-34.33	32.44	-49.00	47.02	-40.77	38.18
South	U65-U66	192	120.00 ft	20.41%	---	-283.79	-155.81	34.70	-131.87	31.57	-68.79	15.31	-104.41	23.19	-120.87	26.94	-145.93	33.98	-179.50	51.33	-152.57	40.59
South	U66-U67	193	120.00 ft	20.41%	---	-530.58	-268.70	34.36	-236.49	27.81	-119.47	15.21	-182.20	23.05	-210.18	26.76	-255.47	33.67	-292.65	49.04	-248.26	37.78
South	U67-U68	194	120.00 ft	20.41%	---	-615.87	-302.02	29.29	-279.65	21.13	-135.12	13.10	-205.69	19.86	-237.86	23.01	-276.60	28.08	-310.55	39.73	-274.64	31.63
South	U68-U69	195	120.00 ft	20.41%	---	-615.90	-301.99	29.29	-279.57	21.02	-135.12	13.10	-205.68	19.86	-237.85	23.00	-276.59	28.03	-310.54	39.65	-274.63	31.54
South	U69-U70	196	120.00 ft	20.41%	---	-516.95	-256.14	23.32	-228.03	13.11	-114.25	10.49	-174.54	16.01	-201.51	18.42	-243.46	22.37	-278.12	30.29	-239.96	22.62
South	U70-U71	197	120.00 ft	20.41%	---	-268.14	-135.30	11.92	-118.51	5.65	-60.16	5.36	-90.65	8.09	-104.98	9.41	-127.12	11.17	-151.23	15.95	-127.66	12.21
South	U71-U72	198	250.00 ft	13.33%	---	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South	U72-U73	199	250.00 ft	13.33%	---	228.07	-8.16	91.78	-3.46	88.90	-3.59	40.27	-5.42	60.91	-6.28	70.40	-7.93	88.95	-11.58	107.52	-9.17	94.24
South	U73-U74	200	250.00 ft	13.33%	---	392.26	-12.34	136.85	-5.72	145.99	-5.40	59.97	-8.24	91.21	-9.60	106.00	-12.25	135.97	-17.43	160.67	-14.39	145.04
South	U74-U75	201	250.00 ft	13.33%	---	335.83	-65.86	185.41	-98.42	158.09	-28.15	80.69	-42.75	123.27	-50.05	143.23	-68.03	186.75	-96.99	213.08	-88.35	194.51
South	U75-U76	202	250.00 ft	13.33%	---	86.31	-159.61	229.04	-240.07	170.21	-68.18	99.64	-104.06	152.21	-121.42	176.88	-164.84	230.83	-227.50	265.11	-209.62	241.40
South	U76-U77	203	320.00 ft	11.24%	---	-256.24	-276.17	271.89	-428.05	206.32	-117.89	118.11	-180.35	180.46	-210.33	209.82	-287.90	274.99	-389.75	317.03	-365.95	288.80
South	U77-U78	204	320.00 ft	11.24%	---	-658.03	-416.30	320.89	-661.27	245.88	-177.73	139.30	-272.03	212.83	-317.05	247.51	-435.18	325.07	-600.33	376.00	-554.25	342.60

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
South	U78-U79	205	320.00 ft	11.24%	---	-1025.01	-546.57	355.59	-890.51	282.45	-233.75	153.97	-357.59	235.26	-416.98	273.78	-572.71	362.14	-797.80	417.86	-729.44	382.63
South	U79-U80	206	320.00 ft	11.24%	---	-1254.90	-647.17	381.35	-1078.67	323.04	-277.08	164.62	-423.46	251.30	-494.18	292.76	-676.23	390.84	-946.69	447.19	-875.91	413.16
South	U80-U81	207	320.00 ft	11.24%	---	-1284.37	-699.16	435.92	-1193.59	395.22	-299.32	187.02	-457.27	285.56	-533.99	333.30	-727.47	452.64	-1031.50	528.34	-951.68	496.12
South	U81-U82	208	320.00 ft	11.24%	---	-1117.68	-712.07	507.68	-1244.98	460.98	-305.11	217.80	-466.54	332.58	-544.21	388.17	-740.82	527.20	-1059.55	615.64	-971.97	578.20
South	U82-U83	209	320.00 ft	11.24%	---	-1117.67	-712.07	507.69	-1244.99	460.98	-305.11	217.80	-466.54	332.58	-544.21	388.17	-740.84	527.20	-1059.54	615.64	-971.98	578.20
South	U83-U84	210	320.00 ft	11.24%	---	-753.41	-676.83	558.83	-1165.09	508.17	-290.05	239.74	-443.56	366.09	-517.20	427.27	-707.16	580.34	-1007.61	677.99	-927.99	636.86
South	U84-U85	211	320.00 ft	11.24%	---	-244.60	-606.22	587.26	-1020.22	534.83	-259.71	251.93	-397.12	384.72	-463.37	449.02	-634.51	609.92	-894.95	712.86	-825.48	669.72
South	U85-U86	212	320.00 ft	11.24%	---	329.98	-504.92	588.67	-827.66	536.95	-216.39	252.53	-330.85	385.67	-386.01	450.10	-529.11	611.43	-742.77	714.95	-679.40	671.80
South	U86-U87	213	300.00 ft	11.76%	---	869.52	-383.69	556.54	-606.45	517.36	-164.59	238.74	-251.73	364.65	-293.42	425.54	-400.67	578.11	-553.21	676.38	-510.91	635.70
South	U87-U88	214	300.00 ft	11.76%	---	1269.76	-258.32	492.59	-388.43	535.25	-111.00	211.30	-169.73	322.77	-197.68	376.63	-268.39	511.73	-360.77	599.18	-336.73	563.30
South	U88-U89	215	300.00 ft	11.76%	---	1495.71	-149.99	415.97	-210.34	528.61	-64.78	178.43	-98.80	272.60	-115.06	318.06	-154.21	432.21	-206.27	544.07	-188.63	498.61
South	U89-U90	216	300.00 ft	11.76%	---	1594.76	-65.46	346.84	-84.46	509.89	-28.40	148.76	-43.07	227.28	-50.12	265.18	-66.32	360.58	-109.26	487.36	-98.08	442.78
South	U90-U91	217	300.00 ft	11.76%	---	1708.94	-31.53	344.87	-23.42	535.74	-13.56	148.10	-20.73	226.46	-24.12	263.90	-32.65	358.44	-72.16	512.34	-59.96	459.05
South	U91-U92	218	300.00 ft	11.76%	---	1701.03	-33.25	374.52	-22.47	543.91	-14.30	160.66	-21.86	245.82	-25.44	286.09	-34.26	386.87	-70.99	528.27	-58.46	473.75
South	U92-U93	219	300.00 ft	11.76%	---	1551.99	-32.95	374.66	-20.66	507.64	-14.18	161.03	-21.63	246.02	-25.21	286.57	-33.65	384.07	-64.08	503.62	-52.60	448.64
South	U93-U94	220	300.00 ft	11.76%	---	1231.46	-29.05	328.92	-16.66	412.59	-12.53	141.57	-19.02	215.74	-22.25	251.34	-29.43	331.78	-53.51	431.22	-41.93	382.53
South	U94-U95	221	300.00 ft	11.76%	---	665.35	-17.05	196.51	-9.20	227.64	-7.41	84.75	-11.20	128.13	-13.10	149.97	-17.40	197.21	-30.89	252.46	-24.72	227.55
South	U95-U96	222	300.00 ft	11.76%	---	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South	U96-U97	223	160.00 ft	17.54%	---	-590.28	-208.06	18.27	-222.02	9.40	-90.22	7.99	-136.44	12.01	-159.20	14.10	-204.93	18.22	-253.38	29.02	-228.61	24.81
South	U97-U98	224	160.00 ft	17.54%	---	-1053.05	-365.50	33.11	-394.70	17.68	-159.15	14.41	-242.63	21.95	-281.80	25.52	-361.16	32.74	-433.46	49.35	-391.83	43.27
South	U98-U99	225	160.00 ft	17.54%	---	-1357.01	-462.67	42.68	-505.38	24.45	-202.59	18.54	-309.26	28.37	-358.57	32.87	-458.46	42.99	-540.72	62.58	-498.20	56.18
South	U99-U100	226	160.00 ft	17.54%	---	-1478.04	-502.52	50.09	-551.86	30.84	-220.70	21.87	-336.34	33.43	-390.70	38.80	-486.90	50.25	-586.50	76.65	-517.91	62.93
South	U100-U101	227	160.00 ft	17.54%	---	-1478.09	-502.57	50.07	-551.90	30.84	-220.73	21.87	-336.39	33.42	-390.75	38.79	-486.92	50.23	-586.56	76.64	-517.93	62.92
South	U101-U102	228	160.00 ft	17.54%	---	-1406.20	-482.92	54.11	-529.58	34.58	-212.03	23.68	-323.68	36.08	-375.51	41.96	-477.68	53.65	-567.34	78.51	-516.24	66.52
South	U102-U103	229	160.00 ft	17.54%	---	-1124.56	-399.74	56.09	-434.38	38.47	-175.16	24.83	-266.96	37.61	-309.75	43.73	-396.95	55.14	-472.20	75.99	-430.39	69.03
South	U103-U104	230	160.00 ft	17.54%	---	-661.56	-253.88	55.89	-271.09	40.58	-111.36	24.68	-168.36	37.34	-195.52	43.42	-249.30	55.73	-303.49	75.46	-276.76	65.97
South	U104-U105	231	290.00 ft	12.05%	---	-42.49	-62.87	54.07	-65.85	42.98	-27.39	23.67	-41.75	36.08	-48.59	41.93	-63.65	54.27	-79.88	67.22	-70.25	58.30
South	U105-U106	232	290.00 ft	12.05%	---	681.30	-56.08	195.95	-40.33	213.60	-24.77	83.84	-37.22	127.92	-43.32	149.03	-54.74	199.70	-55.24	244.59	-49.25	218.60
South	U106-U107	233	290.00 ft	12.05%	---	1275.11	-49.87	327.30	-40.58	398.56	-21.95	140.82	-33.04	214.27	-38.48	249.36	-48.47	334.98	-55.80	415.52	-49.46	370.10
South	U107-U108	234	290.00 ft	12.05%	---	1641.98	-43.73	380.30	-40.93	504.62	-19.25	163.87	-29.17	249.46	-33.57	291.13	-43.29	392.17	-55.68	493.28	-48.80	446.37
South	U108-U109	235	290.00 ft	12.05%	---	1804.91	-38.59	381.36	-41.98	543.61	-16.96	163.92	-25.72	250.17	-29.61	291.88	-37.87	395.51	-55.76	516.40	-51.73	471.54
South	U109-U110	236	290.00 ft	12.05%	---	1731.65	-35.24	334.87	-43.18	508.28	-14.96	143.56	-22.67	219.42	-26.57	255.99	-38.26	348.62	-56.19	475.47	-50.41	433.31
South	U110-U111	237	290.00 ft	12.05%	---	1536.60	-88.05	341.92	-110.37	483.26	-38.03	146.46	-58.05	223.92	-67.45	261.27	-90.01	356.19	-122.55	479.47	-111.82	442.36
South	U111-U112	238	290.00 ft	12.05%	---	1354.88	-163.79	410.96	-224.27	500.60	-70.39	176.10	-107.36	269.28	-125.29	314.14	-170.75	427.65	-230.20	544.21	-213.83	500.86
South	U112-U113	239	290.00 ft	12.05%	---	1023.99	-253.05	477.94	-389.85	495.25	-108.84	204.91	-165.91	313.29	-193.46	365.44	-265.88	497.23	-362.77	585.96	-343.61	549.65
South	U113-U114	240	290.00 ft	12.05%	---	531.40	-354.68	525.72	-573.44	479.36	-152.10	225.41	-232.06	344.64	-270.78	402.00	-371.13	546.86	-517.65	644.20	-481.97	604.26
South	U114-U115	241	290.00 ft	12.05%	---	-54.95	-441.46	539.56	-738.49	491.35	-189.05	231.35	-288.54	353.74	-336.79	412.60	-463.74	561.19	-656.49	660.92	-605.74	619.91
South	U115-U116	242	320.00 ft	11.24%	---	-624.00	-495.80	515.39	-851.71	468.93	-212.29	221.00	-323.93	337.92	-378.33	394.14	-520.43	536.02	-739.61	631.16	-688.49	591.98
South	U116-U117	243	320.00 ft	11.24%	11.34%	-1109.41	-477.35	426.91	-925.46	431.73	-204.18	183.06	-311.75	279.92	-364.18	326.48	-499.69	443.96	-716.43	522.68	-663.74	490.22
South	U117-U118	244	320.00 ft	11.24%	11.14%	-1492.47	-495.31	385.49	-970.08	389.12	-211.94	165.31	-323.76	252.77	-377.97	294.82	-518.27	400.87	-739.35	471.85	-685.45	442.53
South	U118-U119	245	320.00 ft	11.24%	11.04%	-1492.57	-495.80	385.88	-970.11	389.12	-212.15	165.48	-324.09	253.03	-378.35	295.12	-518.77	401.27	-740.11	472.33	-686.15	442.98
South	U119-U120	246	320.00 ft	11.24%	11.12%	-1747.40	-492.57	336.57	-945.23	339.34	-210.86	144.34	-322.23	220.71	-376.01	257.42	-515.29	349.98	-728.11	411.85	-677.70	386.25
South	U120-U121	247	320.00 ft	11.24%	11.51%	-1826.29	-462.29	277.87	-863.06	280.17	-197.98	119.18	-302.57	182.24	-353.11	212.54	-484.01	288.93	-676.46	339.92	-628.20	318.78
South	U121-U122	248	320.00 ft	11.24%	12.34%	-1711.35	-402.30	213.27	-727.74	214.79	-172.46	91.47	-263.59	139.88	-307.53	163.13	-421.22	221.74	-586.11	260.80	-536.67	244.57
South	U122-U123	249	320.00 ft	11.24%	13.74%	-1422.45	-319.70	149.10	-556.49	149.99	-137.39	63.96	-209.82	97.80	-244.62	114.05	-333.23	155.00	-456.26	182.27	-424.60	170.91
South	U123-U124	250	320.00 ft	11.24%	15.81%	-1035.02	-226.40	93.24	-377.85	93.34	-97.83	40.05	-148.98	61.18	-173.66	71.34	-234.55	96.92	-316.10	113.52	-297.78	106.44
South	U124-U125	251	320.00 ft	11.24%	18.69%	-625.68	-136.48	49.20	-215.57	49.00	-59.21	21.13	-89.92	32.28	-104.58	37.64	-138.88	51.15	-192.03	59.88	-176.09	56.15
South	U125-U126	252	320.00 ft	11.24%	15.66%	-255.78	-55.50	17.51	-82.93	17.40	-24.11	7.52	-36.61	11.49	-42.40	13.40	-55.93	18.21	-78.32	21.32	-70.68	20.00
North	L0-L1	253	140.00 ft	18.87%	---	-2.67	-108.91	108.48	-140.21	133.19	-46.00	45.81	-70.29	70.00	-82.27	81.93	-116.44	115.99	-152.29	151.69	-120.00	119.21
North	L1-L2	254	140.00 ft	18.87%	---	329.73	-80.04	144.58	-69.90	135.35	-34.68	65.76	-52.64	98.02	-61.15	113.60	-79.65	139.27	-95.67	175.85	-64.97	137.78
North	L2-L3	255	140.00 ft	18.87%	---	678.65	-69.36	256.61	-65.84	246.24	-31.89	116.17	-47.58	174.14	-54.87	201.38	-64.53	246.97	-66.31	296.54	-58.46	249.54

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
North	L3-L4	256	140.00 ft	18.87%	---	972.88	-61.13	362.01	-59.74	358.02	-28.73	163.46	-42.30	246.85	-48.24	284.05	-54.87	346.56	-59.73	407.42	-52.02	356.03
North	L4-L5	257	140.00 ft	18.87%	---	1111.57	-51.94	418.26	-50.56	412.75	-24.40	187.52	-35.93	281.12	-40.34	326.60	-46.06	398.84	-50.86	463.43	-43.94	405.97
North	L5-L6	258	140.00 ft	18.87%	---	542.01	-17.96	214.92	-18.29	204.73	-8.41	94.78	-12.40	142.90	-13.94	164.68	-15.55	204.60	-17.90	245.94	-15.29	211.56
North	L6-L7	259	140.00 ft	18.87%	---	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North	L7-L8	260	200.00 ft	15.38%	---	-498.18	-169.53	12.30	-177.84	14.17	-74.17	5.86	-112.11	8.50	-129.51	9.54	-165.16	10.49	-193.16	14.52	-177.97	12.62
North	L8-L9	261	200.00 ft	15.38%	---	-892.20	-269.13	17.28	-308.52	25.38	-117.83	7.31	-178.05	11.17	-205.65	13.06	-264.93	18.20	-321.36	24.16	-287.75	21.89
North	L9-L10	262	200.00 ft	15.38%	---	-1173.11	-309.92	29.60	-394.22	34.60	-135.69	12.54	-205.06	19.13	-237.96	22.40	-312.21	31.07	-388.34	41.33	-350.75	37.44
North	L10-L11	263	200.00 ft	15.38%	---	-1180.48	-311.86	29.79	-396.67	34.82	-136.54	12.62	-206.34	19.25	-239.44	22.54	-314.15	31.27	-390.76	41.59	-352.94	37.67
North	L11-L12	264	200.00 ft	15.38%	---	-1006.42	-351.59	128.77	-355.16	121.48	-153.67	58.42	-232.33	87.00	-269.51	100.76	-354.97	126.33	-404.40	147.61	-358.80	135.20
North	L12-L13	265	200.00 ft	15.38%	---	-772.67	-387.25	269.78	-306.02	288.56	-169.11	120.12	-255.74	180.31	-296.61	209.60	-391.58	268.50	-447.47	315.08	-355.65	291.03
North	L13-L14	266	200.00 ft	15.38%	---	-501.18	-408.07	415.10	-246.26	481.49	-178.26	183.47	-269.38	277.45	-312.37	321.57	-412.32	417.64	-471.82	489.31	-343.91	459.52
North	L14-L15	267	200.00 ft	15.38%	---	-256.39	-404.60	538.07	-189.76	656.37	-177.35	236.44	-267.90	358.92	-310.47	416.04	-406.27	538.28	-464.15	647.53	-349.05	597.89
North	L15-L16	268	200.00 ft	15.38%	---	-127.40	-368.45	512.48	-245.49	604.47	-164.00	225.13	-246.95	340.49	-286.51	395.77	-364.61	513.18	-399.61	622.40	-361.32	574.28
North	L16-L17	269	200.00 ft	15.38%	---	-265.13	-355.12	380.55	-236.86	424.28	-158.06	166.19	-238.01	251.88	-276.14	292.90	-351.43	383.33	-385.71	459.23	-348.32	427.22
North	L17-L18	270	200.00 ft	15.38%	---	-455.81	-319.94	262.80	-266.13	283.16	-142.40	115.42	-214.43	174.87	-248.78	202.70	-316.62	261.38	-375.15	315.49	-335.19	289.63
North	L18-L19	271	180.00 ft	16.39%	---	-633.93	-281.99	189.73	-352.13	231.80	-125.51	81.74	-189.00	124.08	-219.28	144.29	-280.69	196.30	-384.77	257.02	-349.34	226.65
North	L19-L20	272	180.00 ft	16.39%	---	-782.17	-267.75	178.09	-441.39	214.32	-116.61	76.21	-176.69	116.00	-205.75	135.52	-273.01	185.42	-391.15	246.61	-351.92	203.26
North	L20-L21	273	180.00 ft	16.39%	---	-791.45	-295.99	34.86	-315.75	22.24	-131.68	15.48	-198.32	23.28	-230.10	27.06	-293.37	34.87	-340.33	45.49	-310.78	34.43
North	L21-L22	274	180.00 ft	16.39%	---	-589.54	-246.84	23.43	-243.25	14.09	-111.12	10.41	-165.61	15.61	-192.97	18.18	-241.95	23.26	-279.85	31.45	-242.30	23.78
North	L22-L23	275	180.00 ft	16.39%	---	-322.86	-154.62	13.24	-139.41	6.16	-69.96	5.84	-104.31	8.79	-118.98	10.13	-147.11	12.85	-173.57	17.91	-149.08	13.27
North	L23-L24	276	100.00 ft	22.22%	---	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North	L24-L25	277	100.00 ft	22.22%	---	312.50	-13.08	183.49	-4.87	153.05	-6.19	85.78	-9.09	126.49	-10.45	144.86	-11.88	166.09	-14.99	191.91	-12.38	166.17
North	L25-L26	278	100.00 ft	22.22%	---	448.86	-17.58	258.73	-9.77	219.43	-8.19	119.78	-12.15	177.75	-14.03	205.37	-15.18	230.00	-19.36	260.00	-16.00	229.85
North	L26-L27	279	100.00 ft	22.22%	---	244.76	-11.12	146.83	-6.21	119.44	-5.13	66.53	-7.63	99.55	-8.67	113.70	-9.28	128.22	-10.03	150.37	-8.52	127.19
North	L27-L28	280	100.00 ft	22.22%	---	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North	L28-L29	281	170.00 ft	16.95%	---	-236.27	-111.49	11.54	-98.44	7.13	-49.65	5.25	-74.65	7.85	-85.78	8.94	-102.99	10.01	-121.27	10.97	-102.26	8.51
North	L29-L30	282	170.00 ft	16.95%	---	-434.24	-169.10	19.70	-171.91	15.62	-75.38	9.05	-113.34	13.48	-130.18	15.38	-161.26	17.26	-190.87	21.42	-160.29	15.93
North	L30-L31	283	170.00 ft	16.95%	---	-438.09	-170.59	19.87	-173.43	15.75	-76.05	9.13	-114.34	13.60	-131.33	15.52	-162.68	17.41	-192.56	21.61	-161.70	16.07
North	L31-L32	284	170.00 ft	16.95%	---	-198.21	-189.59	102.93	-128.43	105.92	-84.34	46.27	-126.84	69.11	-145.76	79.71	-181.56	100.73	-207.51	120.50	-182.13	109.40
North	L32-L33	285	200.00 ft	15.38%	---	101.82	-211.70	220.92	-135.43	249.26	-94.08	98.27	-141.55	147.27	-162.68	171.46	-202.93	221.37	-233.65	261.16	-204.91	242.01
North	L33-L34	286	200.00 ft	15.38%	---	447.77	-233.05	357.31	-150.60	425.23	-103.56	157.79	-155.80	238.28	-179.10	276.63	-223.68	360.00	-258.46	424.21	-226.59	397.27
North	L34-L35	287	200.00 ft	15.38%	---	762.31	-236.73	476.30	-156.00	591.31	-105.23	209.73	-158.28	318.16	-182.03	368.44	-227.54	478.77	-263.19	575.03	-230.67	530.83
North	L35-L36	288	200.00 ft	15.38%	---	702.78	-208.04	436.69	-153.00	516.67	-93.01	192.02	-139.21	290.07	-161.83	337.33	-207.59	437.98	-236.62	530.87	-213.77	490.07
North	L36-L37	289	200.00 ft	15.38%	---	388.95	-200.24	318.50	-146.94	360.91	-89.51	139.17	-134.00	210.51	-155.75	244.99	-199.90	321.23	-228.03	388.38	-205.68	360.06
North	L37-L38	290	200.00 ft	15.38%	---	61.32	-175.86	212.08	-152.18	234.79	-78.62	92.99	-117.69	140.71	-136.79	163.42	-175.55	212.09	-214.17	256.67	-193.91	233.62
North	L38-L39	291	180.00 ft	16.39%	---	-215.54	-164.97	148.26	-241.61	203.22	-72.87	64.01	-109.54	97.27	-127.46	113.07	-166.67	154.33	-238.41	206.93	-216.98	189.15
North	L39-L40	292	180.00 ft	16.39%	---	-448.68	-182.25	143.39	-341.73	205.99	-78.79	61.02	-119.36	93.07	-139.36	108.62	-188.81	149.76	-281.19	205.25	-250.22	181.96
North	L40-L41	293	180.00 ft	16.39%	---	-476.86	-163.98	20.12	-174.22	13.93	-72.99	8.74	-109.43	13.22	-127.19	15.35	-164.23	20.49	-194.57	30.39	-175.05	21.50
North	L41-L42	294	180.00 ft	16.39%	---	-255.89	-102.04	10.43	-98.19	6.19	-45.34	4.47	-68.02	6.79	-77.98	7.91	-100.11	10.60	-120.86	15.99	-104.39	11.26
North	L42-L43	295	120.00 ft	20.41%	---	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North	L43-L44	296	120.00 ft	20.41%	---	290.40	-9.80	134.66	-5.37	125.00	-4.73	61.46	-6.94	91.36	-7.92	104.53	-8.49	126.71	-11.33	148.78	-8.67	129.59
North	L44-L45	297	120.00 ft	20.41%	5.52%	564.08	-19.72	275.29	-9.25	246.86	-9.10	125.83	-13.54	187.46	-15.59	217.24	-18.25	259.49	-23.21	295.75	-18.75	261.02
North	L45-L46	298	120.00 ft	20.41%	5.54%	560.12	-20.50	275.90	-10.67	248.50	-9.34	124.62	-13.91	186.75	-16.16	214.54	-19.20	258.70	-25.74	295.35	-21.16	260.30
North	L46-L47	299	120.00 ft	20.41%	6.23%	290.79	-11.26	144.19	-6.99	128.74	-5.21	63.99	-7.74	96.40	-8.76	110.86	-9.80	134.15	-13.79	159.25	-11.19	137.91
North	L47-L48	300	120.00 ft	20.41%	7.21%	2.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North	L48-L49	301	210.00 ft	14.93%	6.29%	-264.30	-105.34	10.79	-103.54	7.23	-45.99	4.81	-69.57	7.22	-80.44	8.42	-102.66	10.27	-125.72	15.82	-109.25	12.44
North	L49-L50	302	210.00 ft	14.93%	5.76%	-483.62	-154.69	15.54	-181.51	16.15	-67.59	6.96	-102.33	10.60	-119.13	12.19	-154.54	14.97	-195.68	28.78	-176.89	23.51
North	L50-L51	303	210.00 ft	14.93%	9.40%	-458.29	-151.07	15.18	-172.10	15.31	-66.01	6.80	-99.94	10.35	-116.34	11.91	-150.93	14.62	-191.12	28.11	-172.76	22.96
North	L51-L52	304	210.00 ft	14.93%	10.85%	-163.36	-176.18	102.98	-128.94	116.26	-76.82	44.92	-116.47	67.95	-135.52	79.04	-176.02	103.54	-205.59	130.22	-184.39	120.05
North	L52-L53	305	260.00 ft	12.99%	8.53%	199.59	-195.70	217.46	-146.97	264.62	-85.35	94.21	-129.41	143.18	-150.56	166.79	-195.39	221.69	-229.89	274.89	-205.46	254.70
North	L53-L54	306	260.00 ft	12.99%	7.01%	630.22	-224.80	354.75	-170.68	454.48	-98.14	153.38	-148.81	233.48	-173.04	271.82	-224.48	364.09	-264.35	442.74	-236.10	421.34

TranSystems

Made By SFH Date 3/30/2012
Checked By DWC Date 3/30/2012

Loading Per AASHTO 17th Standard Edition and ODOT Bridge Design Manual 2004 Ed
Impact Per AASHTO 3.8.2 Multiple Presence per AASHTO 3.12.1
* Based on C = 9.47% for Bend Point 1 (R = 1762.95'), C = 16.7% for Bend Point 2 (R = 1000')

Job No. P402110046
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
North	L54-L55	307	260.00 ft	12.99%	6.06%	1097.33	-255.19	505.12	-192.76	667.49	-111.43	218.60	-169.03	333.16	-196.50	387.85	-254.76	518.20	-299.26	650.49	-267.27	594.32
North	L55-L56	308	260.00 ft	12.99%	5.59%	1506.46	-288.53	641.76	-213.89	871.75	-126.04	277.67	-191.33	423.43	-222.44	493.05	-288.62	655.31	-335.03	833.38	-301.01	770.46
North	L56-L57	309	260.00 ft	12.99%	5.59%	1379.05	-354.50	630.31	-241.83	834.05	-154.15	272.65	-235.26	415.74	-273.18	484.30	-355.60	645.43	-400.82	820.34	-363.76	762.91
North	L57-L58	310	260.00 ft	12.99%	6.06%	875.70	-342.91	489.38	-233.76	620.31	-149.22	211.78	-227.70	322.67	-264.28	375.77	-344.24	500.32	-388.23	633.67	-352.44	580.30
North	L58-L59	311	260.00 ft	12.99%	7.01%	347.99	-317.46	350.94	-214.90	424.54	-138.13	151.15	-210.79	230.35	-244.64	268.75	-318.70	362.57	-360.01	450.28	-326.33	423.40
North	L59-L60	312	260.00 ft	12.99%	8.53%	-118.55	-286.37	241.78	-244.38	290.47	-124.61	104.68	-190.15	159.49	-220.70	185.69	-287.47	247.00	-358.53	310.81	-321.46	288.36
North	L60-L61	313	220.00 ft	14.49%	10.89%	-501.17	-264.38	169.66	-344.55	252.47	-115.06	72.72	-175.58	111.04	-203.79	129.31	-268.24	178.73	-395.80	269.21	-351.96	246.57
North	L61-L62	314	220.00 ft	14.49%	12.31%	-803.83	-257.99	146.73	-446.54	238.85	-110.54	61.52	-169.04	94.23	-196.95	110.46	-267.33	159.48	-411.86	251.77	-371.22	226.81
North	L62-L63	315	220.00 ft	14.49%	---	-693.71	-225.24	30.24	-253.56	32.16	-97.83	13.01	-149.54	19.95	-173.45	23.17	-226.39	30.66	-269.64	45.24	-250.33	38.18
North	L63-L64	316	220.00 ft	14.49%	---	-498.10	-180.38	19.23	-185.16	18.36	-78.64	8.25	-119.81	12.68	-139.10	14.70	-179.02	19.37	-212.30	29.12	-192.22	25.26
North	L64-L65	317	220.00 ft	14.49%	---	-267.20	-109.11	11.26	-103.33	8.36	-47.62	4.86	-71.96	7.36	-83.79	8.61	-106.49	11.47	-129.10	17.44	-110.78	14.89
North	L65-L66	318	120.00 ft	20.41%	---	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North	L66-L67	319	120.00 ft	20.41%	---	281.83	-12.26	141.51	-6.11	136.16	-5.42	62.74	-8.29	94.79	-9.53	109.70	-10.79	131.54	-14.95	156.50	-11.05	134.60
North	L67-L68	320	120.00 ft	20.41%	---	526.94	-19.46	256.44	-8.59	243.13	-8.83	114.09	-13.43	174.14	-15.43	200.65	-18.01	241.46	-23.03	273.96	-18.23	242.17
North	L68-L69	321	120.00 ft	20.41%	---	519.15	-17.98	250.05	-10.96	237.95	-8.04	111.73	-12.40	170.52	-14.29	196.85	-17.08	236.66	-23.25	268.61	-19.13	237.26
North	L69-L70	322	120.00 ft	20.41%	---	275.82	-10.19	134.97	-4.94	126.46	-4.57	60.13	-6.85	90.50	-7.94	104.99	-9.45	126.56	-14.62	151.25	-11.49	130.21
North	L70-L71	323	120.00 ft	20.41%	---	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North	L71-L72	324	250.00 ft	13.33%	---	-259.11	-100.91	7.99	-101.56	7.15	-44.34	3.50	-67.00	5.29	-77.59	6.11	-97.78	7.73	-121.00	13.25	-104.73	10.46
North	L72-L73	325	250.00 ft	13.33%	---	-489.07	-165.94	14.06	-183.18	10.55	-72.58	6.22	-110.61	9.44	-128.37	10.93	-164.37	13.44	-199.34	23.29	-178.23	18.58
North	L73-L74	326	250.00 ft	13.33%	---	-703.92	-200.69	19.45	-253.68	17.92	-87.48	8.55	-133.64	13.01	-155.16	15.04	-201.63	18.65	-252.71	36.91	-234.39	31.37
North	L74-L75	327	250.00 ft	13.33%	---	-699.22	-199.44	19.34	-252.03	17.81	-86.93	8.50	-132.80	12.93	-154.19	14.95	-200.37	18.54	-251.08	36.68	-232.89	31.17
North	L75-L76	328	250.00 ft	13.33%	---	-412.16	-221.38	84.29	-203.45	119.88	-96.35	36.53	-147.19	55.50	-170.99	64.54	-223.12	85.27	-254.60	118.92	-231.96	108.80
North	L76-L77	329	320.00 ft	11.24%	---	-98.17	-250.01	177.30	-198.56	266.49	-108.75	76.27	-166.14	116.33	-193.01	135.47	-252.34	182.60	-292.38	249.53	-264.57	226.82
North	L77-L78	330	320.00 ft	11.24%	---	270.68	-290.66	291.63	-236.06	462.58	-126.18	125.01	-192.83	190.96	-224.09	222.53	-294.56	303.84	-343.89	406.43	-311.63	382.24
North	L78-L79	331	320.00 ft	11.24%	---	672.26	-335.62	422.97	-276.60	698.00	-145.57	181.14	-222.46	276.90	-258.59	322.93	-340.72	441.68	-400.14	605.76	-362.91	558.69
North	L79-L80	332	320.00 ft	11.24%	---	1035.30	-373.46	546.55	-314.98	933.44	-161.54	234.00	-246.98	357.69	-287.32	417.37	-381.62	571.84	-447.09	795.64	-408.38	729.75
North	L80-L81	333	320.00 ft	11.24%	---	1263.68	-404.94	642.94	-346.25	1120.96	-174.64	275.30	-266.44	420.75	-310.52	491.09	-415.97	670.98	-483.89	939.01	-447.05	869.93
North	L81-L82	334	320.00 ft	11.24%	---	1295.74	-448.16	691.71	-390.38	1227.56	-192.28	296.11	-293.69	452.78	-342.70	528.31	-465.34	720.17	-542.79	1022.32	-509.69	941.26
North	L82-L83	335	320.00 ft	11.24%	---	772.21	-560.94	665.85	-498.85	1155.33	-240.68	285.52	-367.57	436.27	-428.95	508.72	-582.38	695.64	-678.72	991.54	-637.13	912.05
North	L83-L84	336	320.00 ft	11.24%	---	266.66	-584.24	595.08	-523.14	1013.13	-250.68	255.28	-382.83	389.99	-446.77	454.69	-606.54	621.70	-706.67	880.08	-663.30	809.72
North	L84-L85	337	320.00 ft	11.24%	---	-309.13	-582.49	498.02	-524.08	836.62	-249.93	213.03	-381.67	325.55	-445.43	379.71	-604.71	524.29	-705.97	749.32	-661.84	685.94
North	L85-L86	338	320.00 ft	11.24%	---	-864.27	-550.07	398.41	-560.16	644.51	-236.02	170.34	-360.42	260.30	-420.63	303.88	-571.03	418.62	-692.53	593.24	-647.67	544.10
North	L86-L87	339	300.00 ft	11.76%	---	-1317.86	-499.94	300.75	-627.07	508.06	-214.51	129.01	-327.58	196.83	-382.30	229.70	-519.00	314.45	-715.41	467.91	-656.01	421.49
North	L87-L88	340	300.00 ft	11.76%	---	-1666.02	-445.82	228.28	-686.62	444.05	-191.29	97.28	-292.12	148.42	-340.92	173.66	-462.82	241.83	-707.56	410.47	-639.56	362.17
North	L88-L89	341	300.00 ft	11.76%	---	-1937.83	-399.24	196.78	-766.58	417.41	-171.30	83.27	-261.62	127.29	-305.30	149.02	-414.48	210.67	-692.56	384.48	-625.67	335.42
North	L89-L90	342	300.00 ft	11.76%	---	-2206.52	-376.24	195.77	-857.55	413.98	-160.60	82.64	-245.59	126.47	-286.72	148.07	-396.81	210.45	-699.31	386.41	-623.17	330.04
North	L90-L91	343	300.00 ft	11.76%	---	-2436.94	-454.72	50.39	-739.49	33.12	-195.12	21.78	-298.23	33.19	-347.87	38.60	-471.52	50.65	-678.65	75.20	-601.26	56.61
North	L91-L92	344	300.00 ft	11.76%	---	-2150.91	-435.02	37.13	-670.60	25.64	-186.99	16.21	-285.92	24.57	-333.09	28.59	-450.81	37.47	-625.46	63.93	-558.80	49.17
North	L92-L93	345	300.00 ft	11.76%	---	-1928.19	-425.33	33.86	-619.90	21.48	-182.73	14.58	-279.51	22.33	-325.23	25.98	-438.79	34.74	-584.21	60.45	-522.80	47.19
North	L93-L94	346	300.00 ft	11.76%	---	-1659.21	-402.01	32.94	-550.27	17.89	-173.16	14.06	-264.38	21.64	-307.78	25.13	-411.87	33.20	-534.30	57.59	-473.42	43.86
North	L94-L95	347	300.00 ft	11.76%	---	-1255.96	-337.62	28.22	-432.40	13.28	-145.70	12.03	-221.83	18.43	-258.28	21.51	-340.69	28.26	-438.14	47.19	-387.92	37.13
North	L95-L96	348	300.00 ft	11.76%	---	-667.43	-197.65	16.03	-260.34	5.92	-85.60	6.84	-129.40	10.36	-151.20	12.22	-198.83	15.96	-252.36	26.24	-227.14	21.49
North	L96-L97	349	160.00 ft	17.54%	---	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North	L97-L98	350	160.00 ft	17.54%	---	583.44	-16.30	205.61	-10.30	215.79	-7.01	89.57	-10.63	135.20	-12.48	157.73	-15.78	202.89	-24.19	248.90	-20.00	224.78
North	L98-L99	351	160.00 ft	17.54%	---	1031.59	-27.42	357.95	-15.33	370.32	-11.82	156.37	-18.21	238.14	-21.05	276.37	-26.86	353.40	-39.06	420.52	-31.81	378.92
North	L99-L100	352	160.00 ft	17.54%	---	1317.00	-32.46	447.51	-20.62	477.66	-14.14	196.16	-21.64	299.59	-25.12	347.34	-32.21	442.29	-45.77	519.90	-38.35	473.71
North	L100-L101	353	160.00 ft	17.54%	---	1325.49	-32.70	449.59	-17.59	482.98	-14.30	197.45	-21.98	301.21	-25.42	349.45	-32.30	444.82	-45.91	522.29	-38.03	475.89
North	L101-L102	354	160.00 ft	17.54%	---	1045.43	-27.84	361.86	-13.95	386.66	-12.29	158.42	-18.76	241.37	-21.78	280.13	-27.51	359.10	-40.11	426.74	-32.51	383.70
North	L102-L103	355	160.00 ft	17.54%	---	594.71	-17.14	210.37	-7.82	221.26	-7.53	91.77	-11.40	138.96	-13.12	160.83	-16.57	207.70	-25.39	254.66	-21.09	230.52
North	L103-L104	356	160.00 ft	17.54%	---	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North	L104-L105	357	290.00 ft	12.05%	---	-693.89	-203.69	15.14	-232.17	8.00	-88.13	6.51	-133.76	9.89	-155.12	11.50	-204.68	15.39	-261.88	27.09	-235.44	21.75

TranSystems

Made By SFH Date 3/30/2012
Checked By DWC Date 3/30/2012

Loading Per AASHTO 17th Standard Edition and ODOT Bridge Design Manual 2004 Ed
Impact Per AASHTO 3.8.2 Multiple Presence per AASHTO 3.12.1
* Based on C = 9.47% for Bend Point 1 (R = 1762.95'), C = 16.7% for Bend Point 2 (R = 1000')

Job No. P402110046
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
North	L105-L106	358	290.00 ft	12.05%	---	-1292.84	-346.12	28.00	-428.46	15.38	-149.85	12.08	-227.82	18.35	-265.65	21.46	-351.70	28.57	-455.03	50.88	-402.57	39.94
North	L106-L107	359	290.00 ft	12.05%	---	-1719.95	-421.18	35.13	-561.05	23.34	-181.58	15.14	-277.47	23.18	-322.96	27.02	-432.93	36.00	-563.63	64.59	-503.00	50.49
North	L107-L108	360	290.00 ft	12.05%	---	-2005.90	-453.58	40.41	-644.56	31.67	-195.30	17.47	-298.77	26.77	-347.98	31.14	-469.35	41.04	-628.91	75.92	-564.00	60.49
North	L108-L109	361	290.00 ft	12.05%	---	-2241.56	-473.62	45.11	-711.99	42.22	-203.93	19.58	-311.55	29.91	-363.10	34.79	-491.05	45.98	-684.63	86.10	-615.24	68.55
North	L109-L110	362	290.00 ft	12.05%	---	-2386.62	-476.75	63.42	-759.96	48.99	-205.06	27.49	-313.26	42.05	-364.97	48.87	-494.22	64.62	-714.29	111.52	-638.73	89.23
North	L110-L111	363	290.00 ft	12.05%	---	-2515.61	-380.10	133.03	-894.46	267.50	-161.56	55.65	-247.17	85.28	-288.75	100.07	-403.34	145.40	-706.20	312.44	-632.74	263.99
North	L111-L112	364	290.00 ft	12.05%	---	-2242.93	-406.64	154.02	-822.98	304.09	-173.87	64.42	-265.67	98.72	-310.03	115.81	-426.57	168.41	-716.65	332.85	-646.61	283.70
North	L112-L113	365	290.00 ft	12.05%	---	-1843.66	-444.84	189.75	-725.93	348.95	-190.89	81.89	-291.87	125.16	-340.37	145.61	-462.23	195.14	-718.43	359.32	-650.36	315.68
North	L113-L114	366	290.00 ft	12.05%	---	-1339.44	-490.80	268.12	-642.28	419.15	-210.62	115.53	-322.03	176.45	-375.54	205.54	-509.98	277.20	-709.14	403.21	-649.43	362.86
North	L114-L115	367	290.00 ft	12.05%	---	-699.99	-527.47	362.26	-551.43	541.96	-226.35	155.44	-346.09	237.52	-403.60	277.13	-548.08	375.77	-666.00	524.16	-624.04	469.50
North	L115-L116	368	320.00 ft	11.24%	---	34.06	-534.57	449.74	-478.29	727.25	-229.40	193.94	-350.75	295.99	-409.03	344.53	-555.48	469.54	-653.31	668.94	-612.45	609.53
North	L116-L117	369	320.00 ft	11.24%	11.82%	745.86	-571.01	594.28	-460.55	881.50	-245.02	255.86	-374.64	390.46	-436.90	454.91	-593.36	617.91	-697.92	867.42	-654.28	792.22
North	L117-L118	370	320.00 ft	11.24%	11.64%	1343.60	-529.12	660.08	-425.84	1009.92	-227.04	283.96	-347.15	433.58	-404.84	505.33	-549.87	685.87	-646.84	965.45	-606.40	882.55
North	L118-L119	371	320.00 ft	11.24%	11.54%	2097.19	-425.69	708.88	-339.27	1111.66	-182.64	304.75	-279.26	465.09	-325.68	542.23	-442.46	735.82	-520.65	1031.90	-488.14	943.61
North	L119-L120	372	320.00 ft	11.24%	11.62%	2170.27	-359.51	671.23	-283.99	1034.82	-154.23	287.91	-235.82	439.65	-275.03	512.72	-373.71	698.23	-439.85	967.72	-412.41	891.57
North	L120-L121	373	320.00 ft	11.24%	12.02%	2017.91	-285.75	585.31	-222.69	886.73	-122.58	250.45	-187.42	382.47	-218.59	446.47	-297.08	612.10	-349.76	844.33	-327.97	777.69
North	L121-L122	374	320.00 ft	11.24%	12.88%	1678.91	-210.99	468.61	-161.35	691.49	-90.49	200.47	-138.35	306.04	-161.37	357.25	-219.40	490.40	-258.36	670.12	-242.28	610.67
North	L122-L123	375	320.00 ft	11.24%	14.28%	1244.05	-142.95	338.16	-106.60	483.93	-61.28	144.43	-93.70	220.35	-109.31	257.23	-148.75	353.94	-175.11	471.84	-164.23	435.96
North	L123-L124	376	320.00 ft	11.24%	16.35%	802.21	-86.39	216.77	-62.29	296.37	-37.02	92.64	-56.60	141.24	-66.03	164.68	-89.96	225.64	-105.86	303.88	-99.29	278.51
North	L124-L125	377	320.00 ft	11.24%	19.24%	396.05	-41.21	110.16	-28.83	136.56	-17.65	47.24	-26.99	71.92	-31.49	83.69	-42.96	113.08	-50.67	150.36	-47.41	135.70
North	L125-L126	378	320.00 ft	11.24%	15.95%	-22.63	-20.03	15.19	-39.37	23.07	-8.41	6.37	-12.87	9.75	-15.09	11.43	-21.63	16.45	-35.47	28.95	-32.05	25.51
North	U0-U1	379	140.00 ft	18.87%	---	-320.05	-127.81	10.29	-122.26	7.60	-57.48	4.98	-85.87	7.25	-98.22	8.24	-123.55	8.69	-145.24	9.52	-127.35	7.59
North	U1-U2	380	140.00 ft	18.87%	---	-669.25	-260.75	19.12	-254.77	14.82	-117.79	9.12	-175.45	13.51	-204.21	15.18	-252.83	16.27	-289.34	18.14	-257.24	14.91
North	U2-U3	381	140.00 ft	18.87%	---	-967.81	-372.32	25.70	-368.55	19.33	-168.00	12.11	-253.42	17.94	-291.88	20.29	-357.66	21.86	-403.65	25.42	-365.59	21.39
North	U3-U4	382	140.00 ft	18.87%	---	-1112.34	-429.63	28.51	-423.75	20.47	-192.61	13.41	-288.86	19.76	-335.49	22.45	-409.35	24.32	-463.23	28.74	-413.60	24.84
North	U4-U5	383	140.00 ft	18.87%	---	-947.18	-372.86	24.26	-362.58	15.36	-166.17	11.37	-249.80	16.80	-286.91	18.94	-355.16	20.69	-412.29	28.31	-356.03	23.65
North	U5-U6	384	140.00 ft	18.87%	---	-947.18	-372.90	24.35	-362.58	15.36	-166.19	11.41	-249.83	16.86	-286.94	19.01	-355.20	20.76	-412.33	28.35	-356.05	23.69
North	U6-U7	385	140.00 ft	18.87%	---	-542.08	-218.88	14.33	-209.10	8.12	-96.44	6.63	-145.46	9.83	-167.64	11.13	-208.95	12.11	-249.96	18.22	-215.84	14.48
North	U7-U8	386	200.00 ft	15.38%	---	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North	U8-U9	387	200.00 ft	15.38%	---	483.79	-11.60	166.78	-6.73	175.63	-5.13	72.90	-7.74	110.21	-8.91	127.35	-10.89	163.19	-16.40	197.01	-14.88	180.59
North	U9-U10	388	200.00 ft	15.38%	---	844.03	-18.20	257.62	-10.74	298.39	-8.05	112.56	-12.13	170.18	-13.97	196.68	-17.54	254.44	-29.20	316.13	-24.62	288.05
North	U10-U11	389	200.00 ft	15.38%	---	946.48	-118.75	342.50	-132.40	346.94	-52.77	149.55	-79.15	226.17	-90.89	261.59	-117.88	344.94	-142.00	394.24	-129.32	348.07
North	U11-U12	390	200.00 ft	15.38%	---	752.09	-264.15	391.10	-312.77	310.19	-117.27	170.90	-175.76	258.41	-204.72	298.96	-265.66	393.64	-314.48	447.97	-291.61	351.65
North	U12-U13	391	200.00 ft	15.38%	---	495.76	-418.14	420.08	-515.73	252.97	-184.54	183.69	-278.57	277.70	-323.63	321.35	-421.61	422.56	-494.95	479.51	-465.71	339.05
North	U13-U14	392	200.00 ft	15.38%	---	256.83	-547.92	421.21	-703.17	195.94	-241.34	184.32	-366.06	278.61	-423.82	322.42	-550.72	423.42	-660.61	479.69	-611.36	357.85
North	U14-U15	393	200.00 ft	15.38%	---	110.98	-586.07	375.53	-780.78	223.19	-257.11	165.63	-389.89	249.90	-452.73	289.27	-584.97	374.85	-715.92	426.33	-647.15	350.87
North	U15-U16	394	200.00 ft	15.38%	---	110.98	-586.09	375.56	-780.77	223.19	-257.12	165.64	-389.90	249.92	-452.75	289.29	-585.00	374.88	-715.93	426.35	-647.17	350.88
North	U16-U17	395	200.00 ft	15.38%	---	128.12	-525.70	376.56	-663.17	253.48	-230.88	167.52	-348.50	252.26	-405.68	292.73	-528.72	372.78	-640.61	415.41	-591.15	370.07
North	U17-U18	396	200.00 ft	15.38%	---	261.24	-377.82	359.02	-443.53	242.42	-166.07	159.70	-250.49	240.48	-291.28	279.07	-378.44	355.46	-452.63	398.14	-422.11	353.08
North	U18-U19	397	180.00 ft	16.39%	---	436.87	-231.31	320.12	-240.33	227.45	-102.33	142.37	-154.13	214.39	-178.37	248.81	-227.85	317.00	-273.22	357.16	-249.55	315.07
North	U19-U20	398	180.00 ft	16.39%	---	574.50	-106.51	267.77	-98.92	241.46	-47.51	119.06	-71.21	179.29	-81.82	208.09	-102.25	265.21	-120.93	300.95	-109.70	263.79
North	U20-U21	399	180.00 ft	16.39%	---	528.31	-30.17	197.42	-34.38	207.11	-13.90	88.78	-20.72	132.88	-23.55	154.12	-30.12	192.92	-39.98	236.57	-35.51	198.06
North	U21-U22	400	180.00 ft	16.39%	---	305.94	-38.96	131.58	-35.65	124.93	-18.00	59.03	-26.69	88.32	-30.25	101.68	-33.53	125.05	-39.76	157.22	-33.13	126.16
North	U22-U23	401	180.00 ft	16.39%	---	-1.48	-50.62	50.63	-36.26	42.69	-22.64	22.63	-34.19	34.18	-39.50	39.49	-50.06	50.15	-63.55	63.60	-46.94	46.60
North	U23-U24	402	100.00 ft	22.22%	---	-313.27	-209.50	47.65	-163.45	38.35	-97.82	21.29	-144.27	32.17	-166.39	37.13	-194.56	45.74	-221.83	60.03	-188.21	43.55
North	U24-U25	403	100.00 ft	22.22%	---	-483.42	-292.70	37.90	-243.95	28.93	-135.69	16.98	-203.14	25.57	-232.98	29.57	-265.81	35.88	-291.15	44.80	-261.76	35.33
North	U25-U26	404	100.00 ft	22.22%	---	-483.43	-292.64	37.92	-243.95	28.93	-135.68	16.99	-203.12	25.58	-232.94	29.58	-265.74	35.90	-291.11	44.80	-261.70	35.36
North	U26-U27	405	100.00 ft	22.22%	---	-449.06	-268.63	26.48	-221.57	16.62	-124.06	12.15	-184.31	18.10	-212.90	20.87	-241.93	24.70	-270.21	29.41	-239.67	22.93
North	U27-U28	406	100.00 ft	22.22%	---	-239.93	-147.83	13.04	-117.95	6.88	-66.83	5.89	-100.06	8.82	-114.35	10.10	-130.11	11.71	-152.78	15.61	-129.56	11.46
North	U28-U29	407	170.00 ft	16.95%	---	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North	U29-U30	408	170.00 ft	16.95%	---	203.78	-8.74	97.92	-4.33	86.10	-3.86	43.43	-5.82	65.38	-6.72	75.20	-8.31	91.35	-11.80	109.03	-8.93	92.28

TranSystems

Made By SFH Date 3/30/2012
Checked By DWC Date 3/30/2012

Loading Per AASHTO 17th Standard Edition and ODOT Bridge Design Manual 2004 Ed
Impact Per AASHTO 3.8.2 Multiple Presence per AASHTO 3.12.1
* Based on C = 9.47% for Bend Point 1 (R = 1762.95'), C = 16.7% for Bend Point 2 (R = 1000')

Job No. P402110046
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
North	U30-U31	409	170.00 ft	16.95%	---	167.49	-89.11	169.90	-106.56	106.98	-39.44	75.44	-59.22	113.53	-67.98	130.55	-89.06	162.81	-109.60	185.91	-100.30	162.78
North	U31-U32	410	170.00 ft	16.95%	---	-99.77	-213.01	207.58	-257.07	129.84	-94.48	92.22	-141.69	138.75	-164.96	159.56	-215.10	198.99	-254.63	226.92	-236.49	199.00
North	U32-U33	411	200.00 ft	15.38%	---	-444.79	-356.63	234.65	-443.09	146.42	-157.29	104.32	-237.29	156.91	-275.86	180.48	-360.04	225.08	-423.52	257.26	-397.78	224.77
North	U33-U34	412	200.00 ft	15.38%	---	-770.25	-485.33	243.43	-624.58	152.10	-213.81	108.34	-324.24	162.86	-375.39	187.44	-488.77	234.11	-585.82	268.03	-541.64	232.79
North	U34-U35	413	200.00 ft	15.38%	---	-883.42	-522.62	219.26	-695.28	143.56	-229.21	98.04	-347.62	146.97	-403.64	169.71	-521.53	212.63	-637.98	242.09	-577.65	209.54
North	U35-U36	414	200.00 ft	15.38%	---	-883.42	-522.65	219.28	-695.28	143.56	-229.23	98.06	-347.64	146.98	-403.66	169.73	-521.57	212.65	-638.00	242.12	-577.66	209.56
North	U36-U37	415	200.00 ft	15.38%	---	-712.66	-446.32	215.01	-562.69	154.59	-196.09	95.64	-295.74	143.38	-344.43	166.52	-449.68	214.64	-544.56	250.35	-503.03	219.32
North	U37-U38	416	200.00 ft	15.38%	---	-394.14	-318.02	204.54	-372.35	148.14	-139.64	90.77	-210.78	136.25	-244.87	158.09	-318.83	204.08	-383.40	239.99	-356.51	208.01
North	U38-U39	417	180.00 ft	16.39%	---	-71.31	-179.87	169.48	-190.15	124.57	-79.39	74.97	-119.66	112.78	-138.48	130.74	-178.12	169.04	-214.63	201.00	-196.50	173.32
North	U39-U40	418	180.00 ft	16.39%	---	154.86	-81.89	137.15	-78.68	118.08	-36.24	60.45	-54.56	91.16	-62.83	105.64	-79.11	136.82	-94.58	164.61	-85.83	142.27
North	U40-U41	419	180.00 ft	16.39%	---	171.88	-23.04	78.95	-31.70	93.66	-10.40	34.52	-15.59	52.18	-17.84	60.59	-22.85	77.94	-31.26	99.19	-28.27	84.50
North	U41-U42	420	180.00 ft	16.39%	---	-29.05	-28.35	27.67	-31.92	29.08	-12.77	12.59	-19.25	19.04	-22.26	21.88	-27.03	26.43	-37.20	34.62	-27.48	24.49
North	U42-U43	421	120.00 ft	20.41%	---	-303.53	-139.12	29.92	-122.71	25.95	-63.59	13.50	-94.44	20.26	-108.72	23.35	-132.25	27.06	-159.99	39.05	-133.75	23.67
North	U43-U44	422	120.00 ft	20.41%	---	-581.41	-267.26	30.88	-243.96	24.85	-121.81	14.00	-181.69	21.02	-210.60	24.19	-252.97	28.96	-290.82	40.33	-252.35	25.72
North	U44-U45	423	120.00 ft	20.41%	5.52%	-689.77	-331.06	29.90	-297.63	21.04	-149.71	13.60	-226.56	20.41	-260.78	23.48	-302.78	27.66	-337.63	37.30	-305.37	26.93
North	U45-U46	424	120.00 ft	20.41%	5.54%	-689.79	-331.10	29.90	-297.63	21.03	-149.73	13.61	-226.58	20.41	-260.82	23.48	-302.79	27.65	-337.65	37.30	-305.39	26.94
North	U46-U47	425	120.00 ft	20.41%	6.23%	-568.30	-279.98	24.61	-242.45	13.39	-126.49	11.29	-189.54	16.87	-217.84	19.45	-262.94	22.60	-300.94	30.54	-262.90	21.05
North	U47-U48	426	120.00 ft	20.41%	7.21%	-284.61	-143.07	13.02	-121.50	6.09	-63.44	6.01	-95.61	8.93	-109.98	10.13	-133.14	11.26	-157.91	15.58	-136.28	11.20
North	U48-U49	427	210.00 ft	14.93%	6.29%	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North	U49-U50	428	210.00 ft	14.93%	5.76%	219.73	-8.77	85.98	-3.67	81.88	-3.95	37.54	-5.95	56.79	-6.89	65.66	-8.18	83.70	-11.86	101.32	-8.90	88.32
North	U50-U51	429	210.00 ft	14.93%	9.40%	129.43	-80.15	141.82	-106.13	101.92	-34.57	61.85	-52.49	93.73	-61.02	109.06	-82.40	141.67	-107.01	163.22	-98.84	146.61
North	U51-U52	430	210.00 ft	14.93%	10.85%	-185.05	-200.80	180.59	-258.07	128.01	-86.67	78.78	-131.72	119.41	-153.49	138.91	-205.85	180.30	-256.87	208.17	-238.49	186.79
North	U52-U53	431	260.00 ft	12.99%	8.53%	-616.85	-346.97	216.43	-458.57	155.64	-149.75	94.53	-227.85	143.30	-265.60	166.62	-356.90	215.95	-434.59	249.51	-413.77	223.50
North	U53-U54	432	260.00 ft	12.99%	7.01%	-1094.48	-504.94	249.13	-685.22	178.72	-218.33	108.85	-332.67	165.06	-387.38	191.88	-518.45	248.51	-650.39	287.29	-594.74	256.25
North	U54-U55	433	260.00 ft	12.99%	6.06%	-1531.08	-651.89	284.25	-909.44	200.12	-282.06	124.28	-430.21	188.61	-500.84	219.23	-666.10	284.00	-846.09	326.43	-782.29	290.88
North	U55-U56	434	260.00 ft	12.99%	5.59%	-1650.21	-697.26	315.38	-996.38	216.77	-301.61	137.18	-459.83	209.28	-535.74	242.98	-709.25	316.68	-891.78	362.89	-837.18	324.58
North	U56-U57	435	260.00 ft	12.99%	5.59%	-1650.21	-697.28	315.37	-996.41	216.77	-301.62	137.18	-459.84	209.28	-535.75	242.98	-709.28	316.67	-891.79	362.89	-837.19	324.58
North	U57-U58	436	260.00 ft	12.99%	6.06%	-1419.13	-642.31	349.00	-887.34	239.55	-277.73	151.78	-423.33	231.56	-493.22	268.86	-659.11	350.49	-836.36	404.69	-778.89	359.44
North	U58-U59	437	260.00 ft	12.99%	7.01%	-907.78	-491.97	332.73	-649.39	227.37	-212.64	144.67	-323.77	220.72	-377.16	256.29	-505.23	334.21	-641.31	389.61	-586.36	342.98
North	U59-U60	438	260.00 ft	12.99%	8.53%	-389.00	-336.21	301.18	-417.62	203.95	-145.41	130.92	-221.35	199.75	-257.91	231.96	-345.19	302.58	-426.96	356.25	-401.85	310.75
North	U60-U61	439	220.00 ft	14.49%	10.89%	42.58	-196.86	256.78	-221.96	172.99	-85.60	111.59	-130.04	170.26	-151.34	197.77	-199.78	258.03	-247.54	307.83	-231.42	265.26
North	U61-U62	440	220.00 ft	14.49%	12.31%	331.06	-86.62	205.61	-88.85	166.06	-38.04	89.31	-57.64	136.22	-66.68	158.34	-86.04	206.58	-106.31	250.70	-98.25	212.64
North	U62-U63	441	220.00 ft	14.49%	---	416.65	-23.72	131.75	-39.60	159.53	-10.37	57.31	-15.80	87.05	-18.28	101.30	-23.09	130.09	-35.06	164.90	-31.94	144.68
North	U63-U64	442	220.00 ft	14.49%	---	249.35	-24.26	87.32	-38.17	105.91	-10.87	38.03	-16.33	57.75	-18.83	67.17	-22.16	85.90	-33.37	113.57	-30.40	98.53
North	U64-U65	443	220.00 ft	14.49%	---	12.27	-33.60	34.34	-42.56	49.91	-14.79	15.16	-22.52	23.07	-26.16	26.79	-33.53	33.85	-48.63	48.12	-39.17	40.40
North	U65-U66	444	120.00 ft	20.41%	---	-264.95	-153.83	36.48	-139.67	47.13	-68.20	16.13	-103.30	24.42	-119.49	28.35	-144.34	35.17	-177.74	52.67	-149.38	42.67
North	U66-U67	445	120.00 ft	20.41%	---	-517.75	-267.30	35.90	-247.58	41.34	-118.74	15.92	-181.28	24.09	-209.08	27.97	-254.05	34.67	-291.44	50.12	-247.96	39.56
North	U67-U68	446	120.00 ft	20.41%	---	-608.83	-301.29	30.07	-291.74	32.01	-134.81	13.37	-205.09	20.32	-237.33	23.52	-275.79	28.83	-309.45	40.31	-273.72	31.94
North	U68-U69	447	120.00 ft	20.41%	---	-608.81	-301.25	30.09	-291.74	32.00	-134.80	13.37	-205.07	20.33	-237.31	23.52	-275.76	28.85	-309.38	40.25	-273.69	31.87
North	U69-U70	448	120.00 ft	20.41%	---	-513.87	-255.87	23.65	-234.81	20.60	-114.19	10.59	-174.28	16.24	-201.25	18.74	-243.25	22.73	-277.08	30.84	-240.33	23.40
North	U70-U71	449	120.00 ft	20.41%	---	-267.20	-135.05	12.12	-122.53	7.24	-60.10	5.44	-90.48	8.17	-105.00	9.48	-127.04	11.29	-151.63	16.01	-130.97	11.85
North	U71-U72	450	250.00 ft	13.33%	---	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North	U72-U73	451	250.00 ft	13.33%	---	227.18	-8.26	91.65	-6.27	88.92	-3.63	40.24	-5.48	60.82	-6.34	70.44	-7.98	88.94	-11.70	107.48	-9.37	94.10
North	U73-U74	452	250.00 ft	13.33%	---	390.51	-12.44	136.94	-6.91	146.86	-5.47	59.89	-8.29	91.23	-9.68	105.94	-12.33	136.01	-17.73	160.73	-14.42	144.95
North	U74-U75	453	250.00 ft	13.33%	---	331.49	-66.29	185.77	-114.72	159.77	-28.44	80.82	-43.15	123.53	-50.44	143.46	-68.79	187.12	-98.25	213.30	-89.57	193.75
North	U75-U76	454	250.00 ft	13.33%	---	82.43	-160.49	229.78	-271.80	176.94	-68.74	99.94	-104.75	152.74	-122.13	177.41	-166.26	231.65	-229.83	266.09	-211.85	241.31
North	U76-U77	455	320.00 ft	11.24%	---	-259.93	-277.50	273.47	-479.96	216.20	-118.79	118.77	-181.38	181.54	-211.57	210.93	-289.85	276.59	-392.93	319.29	-369.31	289.84
North	U77-U78	456	320.00 ft	11.24%	---	-663.20	-418.49	323.38	-737.15	258.37	-178.89	140.36	-273.38	214.51	-318.91	249.29	-437.94	327.57	-605.25	379.63	-558.43	344.96
North	U78-U79	457	320.00 ft	11.24%	---	-1033.23	-549.63	359.56	-990.62	295.56	-235.07	155.65	-359.46	238.00	-419.40	276.81	-575.92	366.46	-805.24	423.28	-735.22	387.20
North	U79-U80	458	320.00 ft	11.24%	---	-1267.28	-650.85	387.07	-1193.21	332.26	-278.49	167.06	-425.82	255.26	-496.90	297.17	-680.33	397.05	-954.27	454.50	-882.19	419.96
North	U80-U81	459	320.00 ft	11.24%	---	-1301.21	-702.77	444.35	-1311.41	401.12	-300.84	190.59	-459.93	291.37	-536.75	339.80	-732.02	461.71	-1041.39	540.54	-959.21	506.72

TranSystems

Made By SFH Date 3/30/2012
Checked By DWC Date 3/30/2012

Loading Per AASHTO 17th Standard Edition and ODOT Bridge Design Manual 2004 Ed
Impact Per AASHTO 3.8.2 Multiple Presence per AASHTO 3.12.1
* Based on C = 9.47% for Bend Point 1 (R = 1762.95'), C = 16.7% for Bend Point 2 (R = 1000')

Job No. P402110046
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
North	U81-U82	460	320.00 ft	11.24%	---	-1138.62	-716.00	516.70	-1357.85	466.39	-306.81	221.62	-468.91	338.81	-547.22	395.12	-745.25	536.89	-1068.92	628.46	-979.52	589.13
North	U82-U83	461	320.00 ft	11.24%	---	-1138.62	-716.04	516.70	-1357.87	466.39	-306.83	221.62	-468.93	338.81	-547.25	395.12	-745.30	536.89	-1068.95	628.46	-979.55	589.13
North	U83-U84	462	320.00 ft	11.24%	---	-778.38	-680.62	567.87	-1260.11	512.45	-291.76	243.56	-445.84	372.36	-519.90	434.25	-711.57	590.07	-1015.61	690.60	-935.00	647.38
North	U84-U85	463	320.00 ft	11.24%	---	-272.70	-609.47	595.83	-1089.24	537.49	-261.30	255.54	-399.20	390.69	-465.63	455.63	-638.24	619.13	-904.26	724.49	-832.02	679.15
North	U85-U86	464	320.00 ft	11.24%	---	299.64	-508.16	596.20	-867.23	537.69	-217.70	255.69	-332.84	390.93	-388.25	455.91	-532.51	619.53	-750.17	724.83	-684.98	679.47
North	U86-U87	465	300.00 ft	11.76%	---	838.90	-385.94	562.43	-619.01	519.08	-165.46	241.21	-253.16	368.79	-295.20	430.09	-403.39	584.46	-559.17	683.65	-515.10	640.87
North	U87-U88	466	300.00 ft	11.76%	---	1239.81	-259.69	496.28	-395.96	535.92	-111.61	212.84	-170.63	325.41	-198.81	379.50	-270.14	515.73	-363.57	604.60	-339.54	565.34
North	U88-U89	467	300.00 ft	11.76%	---	1467.04	-150.75	417.82	-220.76	528.16	-65.04	179.19	-99.30	273.96	-115.58	319.50	-155.02	434.21	-207.71	545.94	-190.02	499.55
North	U89-U90	468	300.00 ft	11.76%	---	1567.55	-65.56	346.87	-91.15	514.69	-28.47	148.74	-43.21	227.43	-50.28	265.22	-66.26	360.71	-109.81	487.75	-98.65	441.53
North	U90-U91	469	300.00 ft	11.76%	---	1687.75	-32.14	344.05	-35.03	543.31	-13.80	147.69	-21.12	225.93	-24.56	263.28	-33.27	357.60	-73.14	511.69	-60.93	458.80
North	U91-U92	470	300.00 ft	11.76%	---	1683.46	-33.86	373.63	-32.28	554.55	-14.51	160.41	-22.23	245.26	-25.86	285.56	-34.87	386.11	-72.04	527.58	-59.51	472.90
North	U92-U93	471	300.00 ft	11.76%	---	1537.26	-33.61	373.51	-28.64	519.86	-14.39	160.81	-22.04	245.50	-25.67	285.87	-34.30	383.14	-64.94	504.12	-53.43	448.68
North	U93-U94	472	300.00 ft	11.76%	---	1221.36	-29.66	327.95	-22.29	427.10	-12.70	141.44	-19.39	215.32	-22.65	250.74	-29.95	331.36	-54.27	431.74	-43.33	380.88
North	U94-U95	473	300.00 ft	11.76%	---	659.51	-17.49	195.44	-10.99	259.13	-7.50	84.60	-11.35	127.93	-13.37	149.47	-17.63	196.95	-31.41	251.84	-25.47	226.77
North	U95-U96	474	300.00 ft	11.76%	---	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North	U96-U97	475	160.00 ft	17.54%	---	-577.05	-205.72	18.70	-217.72	14.14	-89.54	8.06	-135.16	12.20	-157.75	14.34	-203.51	18.40	-251.26	30.20	-227.57	25.27
North	U97-U98	476	160.00 ft	17.54%	---	-1019.93	-360.08	33.58	-374.33	25.35	-157.13	14.50	-239.29	22.21	-277.78	25.79	-356.01	33.16	-426.47	51.62	-385.86	44.26
North	U98-U99	477	160.00 ft	17.54%	---	-1299.86	-453.18	43.04	-483.71	36.49	-198.28	18.67	-302.91	28.57	-351.19	33.10	-449.13	43.32	-530.42	63.23	-487.30	57.16
North	U99-U100	478	160.00 ft	17.54%	---	-1393.04	-487.50	50.20	-518.38	44.72	-214.13	21.94	-326.17	33.43	-379.07	38.86	-472.31	50.83	-568.23	77.19	-502.15	64.32
North	U100-U101	479	160.00 ft	17.54%	---	-1393.00	-487.45	50.18	-517.88	44.66	-214.11	21.93	-326.12	33.41	-379.03	38.84	-472.26	50.81	-568.19	77.18	-502.12	64.30
North	U101-U102	480	160.00 ft	17.54%	---	-1297.42	-463.44	56.29	-495.13	54.44	-203.73	24.48	-310.52	37.18	-360.29	43.41	-458.07	56.62	-541.61	82.29	-493.67	71.12
North	U102-U103	481	160.00 ft	17.54%	---	-1011.81	-382.56	60.89	-401.66	61.74	-167.38	26.57	-255.48	40.37	-296.18	47.06	-379.61	61.19	-450.35	85.08	-411.51	77.26
North	U103-U104	482	160.00 ft	17.54%	---	-555.89	-241.78	63.38	-242.90	67.20	-106.21	27.66	-160.58	41.99	-186.68	48.98	-237.19	63.79	-289.39	85.93	-261.73	76.02
North	U104-U105	483	290.00 ft	12.05%	---	44.18	-54.38	62.60	-48.07	75.09	-23.82	27.27	-36.30	41.56	-42.19	48.38	-54.53	63.45	-67.34	79.82	-58.37	70.15
North	U105-U106	484	290.00 ft	12.05%	---	740.21	-46.71	189.19	-37.25	228.58	-20.97	80.96	-31.55	123.53	-36.36	144.26	-45.13	193.97	-44.89	244.64	-40.31	215.87
North	U106-U107	485	290.00 ft	12.05%	---	1317.13	-40.22	316.72	-39.99	407.43	-18.02	136.05	-27.13	207.27	-31.30	241.47	-38.40	325.15	-44.88	410.78	-39.91	361.86
North	U107-U108	486	290.00 ft	12.05%	---	1684.11	-34.41	370.86	-42.10	513.14	-15.21	159.49	-22.79	243.23	-26.42	283.65	-32.61	382.68	-44.37	490.39	-38.92	446.57
North	U108-U109	487	290.00 ft	12.05%	---	1857.86	-29.14	374.67	-43.68	556.70	-12.76	160.85	-19.36	245.89	-22.40	286.49	-27.25	388.81	-43.10	516.32	-37.53	471.76
North	U109-U110	488	290.00 ft	12.05%	---	1799.20	-25.53	331.23	-45.32	528.89	-10.79	142.01	-16.51	217.21	-19.25	253.15	-27.45	345.38	-42.86	479.23	-38.47	439.03
North	U110-U111	489	290.00 ft	12.05%	---	1609.09	-80.40	342.44	-104.43	505.33	-34.98	146.72	-53.21	224.33	-61.86	261.69	-80.16	357.40	-107.16	483.45	-97.20	446.92
North	U111-U112	490	290.00 ft	12.05%	---	1438.02	-158.28	412.97	-209.89	516.21	-68.55	177.05	-104.34	270.60	-121.27	315.69	-162.34	430.39	-212.34	546.57	-193.90	506.34
North	U112-U113	491	290.00 ft	12.05%	---	1062.80	-260.87	479.61	-381.89	495.54	-112.89	205.68	-172.01	314.28	-200.18	366.68	-268.52	499.63	-358.90	585.71	-329.26	550.52
North	U113-U114	492	290.00 ft	12.05%	---	479.55	-378.91	526.85	-589.34	482.27	-163.24	226.00	-248.83	345.29	-290.05	402.84	-393.84	548.68	-546.54	643.10	-494.19	604.05
North	U114-U115	493	290.00 ft	12.05%	---	-231.33	-491.80	540.30	-825.63	494.06	-211.16	231.81	-322.20	354.16	-375.72	413.16	-513.72	562.56	-722.76	659.28	-663.64	618.96
North	U115-U116	494	320.00 ft	11.24%	---	-927.46	-577.92	516.85	-1012.36	472.20	-248.12	221.78	-378.66	338.83	-441.50	395.25	-603.79	538.07	-849.11	630.52	-781.95	591.76
North	U116-U117	495	320.00 ft	11.24%	11.82%	-1509.93	-705.13	528.73	-1149.85	436.36	-302.87	226.90	-462.47	346.64	-539.21	404.35	-735.10	550.36	-1036.22	644.86	-952.19	605.08
North	U117-U118	496	320.00 ft	11.24%	11.64%	-1954.99	-743.05	478.69	-1237.68	395.34	-319.17	205.46	-487.22	313.87	-568.26	366.10	-772.23	498.21	-1091.79	583.69	-989.07	547.64
North	U118-U119	497	320.00 ft	11.24%	11.54%	-1954.95	-742.44	478.29	-1238.07	395.34	-318.91	205.29	-486.83	313.61	-567.80	365.80	-771.58	497.80	-1090.88	583.21	-988.23	547.19
North	U119-U120	498	320.00 ft	11.24%	11.62%	-2229.71	-744.76	420.90	-1224.36	347.38	-319.82	180.69	-488.17	276.01	-569.21	321.92	-773.87	438.02	-1087.75	513.09	-999.06	481.37
North	U120-U121	499	320.00 ft	11.24%	12.02%	-2283.32	-702.48	353.56	-1132.47	290.53	-300.85	151.80	-459.45	231.89	-536.07	270.43	-733.00	367.89	-1017.49	430.87	-941.53	404.19
North	U121-U122	500	320.00 ft	11.24%	12.88%	-2105.13	-610.38	278.60	-966.91	227.11	-260.90	119.63	-398.48	182.74	-465.20	213.08	-640.22	289.83	-886.09	339.39	-819.65	318.35
North	U122-U123	501	320.00 ft	11.24%	14.28%	-1733.68	-483.62	202.84	-751.86	163.24	-206.31	87.06	-314.97	133.11	-367.84	155.22	-508.04	210.74	-698.76	247.77	-640.61	232.26
North	U123-U124	502	320.00 ft	11.24%	16.35%	-1265.83	-342.85	134.73	-524.63	106.14	-145.79	57.82	-222.59	88.40	-259.94	103.09	-360.82	139.99	-488.02	164.61	-453.43	154.31
North	U124-U125	503	320.00 ft	11.24%	19.24%	-797.11	-211.85	78.71	-317.93	60.34	-89.85	33.77	-137.20	51.64	-160.26	60.22	-223.65	81.78	-308.00	96.18	-284.94	90.17
North	U125-U126	504	320.00 ft	11.24%	15.95%	-386.18	-95.80	34.14	-149.15	26.75	-40.47	14.65	-61.88	22.40	-72.35	26.12	-101.90	35.48	-141.71	41.73	-130.33	39.12
South	U0-L0	505	140.00 ft	18.87%	---	-512.60	-204.72	18.38	-216.91	8.28	-91.51	8.81	-136.83	12.87	-156.46	14.31	-204.46	16.22	-243.68	20.88	-217.80	16.56
South	U1-L1	506	140.00 ft	18.87%	---	-494.78	-203.79	14.52	-220.61	6.25	-91.50	6.90	-136.77	10.12	-156.23	11.51	-197.39	12.70	-234.78	17.44	-206.08	13.77
South	U2-L2	507	140.00 ft	18.87%	---	-391.38	-184.61	13.16	-186.02	5.79	-84.05	6.59	-125.07	9.52	-142.57	10.51	-173.96	11.31	-203.24	14.90	-176.42	11.87
South	U3-L3	508	140.00 ft	18.87%	---	-235.35	-151.22	28.04	-134.71	14.21	-70.49	13.68	-104.06	20.03	-118.18	22.35	-135.79	19.92	-153.62	20.73	-136.20	15.38
South	U4-L4	509	140.00 ft	18.87%	---	-5.78	-89.59	75.34	-48.76	34.15	-43.16	35.10	-63.06	52.10	-70.12	58.95	-73.59	59.57	-77.42	61.97	-71.44	48.15
South	U5-L5	510	140.00 ft	18.87%	---	-124.44	-136.17	10.44	-121.77	3.29	-78.06	5.93	-114.27	8.69	-124.59	9.49	-107.20	8.24	-135.63	10.32	-107.10	8.14

TranSystems

Made By SFH Date 3/30/2012
Checked By DWC Date 3/30/2012

Loading Per AASHTO 17th Standard Edition and ODOT Bridge Design Manual 2004 Ed
Impact Per AASHTO 3.8.2 Multiple Presence per AASHTO 3.12.1
* Based on C = 9.47% for Bend Point 1 (R = 1762.95'), C = 16.7% for Bend Point 2 (R = 1000')

Job No. P402110046
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
South	U6-L6	511	140.00 ft	18.87%	---	-426.48	-178.63	11.64	-191.23	4.96	-78.65	5.34	-118.66	7.94	-136.78	9.02	-170.75	10.36	-205.16	15.78	-176.94	12.20
South	U7-L7	512	200.00 ft	15.38%	---	-557.60	-197.47	13.78	-190.60	6.29	-86.38	6.10	-130.55	9.19	-150.81	10.58	-193.03	12.92	-233.40	19.32	-213.64	17.52
South	U8-L8	513	200.00 ft	15.38%	---	-579.90	-193.95	14.54	-237.41	6.47	-86.42	6.58	-129.75	9.83	-148.73	11.21	-189.53	13.68	-242.72	22.81	-217.00	18.94
South	U9-L9	514	200.00 ft	15.38%	---	-557.92	-190.44	14.37	-228.96	5.96	-85.59	6.48	-128.38	9.72	-147.02	11.14	-173.00	12.36	-237.22	22.42	-200.76	17.98
South	U10-L10	515	200.00 ft	15.38%	---	-713.03	-212.46	55.79	-295.63	44.35	-92.98	24.43	-140.22	36.94	-163.52	42.92	-218.24	56.40	-278.28	63.10	-260.74	59.71
South	U11-L11	516	200.00 ft	15.38%	---	-360.56	-221.58	62.58	-240.75	49.17	-97.72	27.85	-146.95	41.94	-168.90	48.66	-222.03	62.29	-267.89	71.33	-244.93	61.44
South	U12-L12	517	200.00 ft	15.38%	---	-370.41	-216.59	70.89	-231.08	55.21	-96.16	31.54	-144.29	47.50	-165.43	55.11	-214.84	70.18	-254.81	77.71	-233.40	69.65
South	U13-L13	518	200.00 ft	15.38%	---	-325.32	-191.95	74.63	-216.38	57.44	-85.75	33.20	-128.38	50.00	-146.87	58.02	-188.02	73.89	-224.85	82.23	-210.62	73.39
South	U14-L14	519	200.00 ft	15.38%	---	-237.43	-129.92	66.72	-178.12	46.53	-58.71	30.41	-87.54	45.48	-99.66	52.10	-124.58	60.70	-168.71	69.42	-145.32	60.04
South	U15-L15	520	200.00 ft	15.38%	---	-124.82	-130.35	9.64	-117.00	3.05	-74.80	5.43	-109.50	7.96	-119.35	8.72	-102.71	7.64	-130.47	9.78	-104.19	8.01
South	U16-L16	521	200.00 ft	15.38%	---	-137.66	-150.69	74.99	-168.78	32.28	-66.44	32.88	-100.19	49.66	-115.44	57.44	-143.73	74.89	-183.08	87.51	-155.48	53.50
South	U17-L17	522	200.00 ft	15.38%	---	-249.72	-210.48	86.32	-219.20	38.54	-92.16	37.66	-139.26	56.97	-160.83	65.99	-205.06	87.15	-243.98	99.90	-223.37	64.62
South	U18-L18	523	180.00 ft	16.39%	---	-304.06	-231.78	80.93	-245.82	40.89	-101.27	35.42	-153.11	53.53	-176.95	62.00	-227.75	81.35	-275.09	92.48	-250.71	67.24
South	U19-L19	524	180.00 ft	16.39%	---	-306.26	-229.43	70.22	-240.28	49.48	-100.33	31.07	-151.62	46.82	-175.19	54.31	-225.23	70.03	-272.43	79.02	-248.01	67.84
South	U20-L20	525	180.00 ft	16.39%	---	-610.73	-221.53	62.04	-289.29	36.50	-96.85	27.30	-146.37	41.15	-169.98	47.67	-224.41	62.58	-276.23	69.19	-258.19	54.55
South	U21-L21	526	180.00 ft	16.39%	---	-410.38	-181.45	14.60	-200.67	6.97	-85.30	6.99	-125.59	10.23	-143.88	11.79	-163.24	12.82	-209.86	20.74	-179.19	16.47
South	U22-L22	527	180.00 ft	16.39%	---	-436.31	-186.06	12.98	-209.30	6.82	-86.12	6.18	-127.14	9.02	-145.47	10.39	-180.61	12.82	-218.89	20.78	-191.16	16.58
South	U23-L23	528	100.00 ft	22.22%	---	-395.45	-197.22	13.50	-204.16	8.04	-89.49	6.14	-133.30	9.16	-151.91	10.44	-186.38	12.62	-220.51	19.87	-189.59	14.84
South	U24-L24	529	100.00 ft	22.22%	---	-261.17	-159.00	14.44	-150.87	8.10	-74.03	6.69	-109.35	9.92	-124.91	11.22	-142.95	12.35	-164.67	13.81	-142.23	11.61
South	U25-L25	530	100.00 ft	22.22%	---	-121.20	-137.56	9.94	-123.10	3.22	-79.06	5.69	-115.67	8.31	-126.07	9.08	-107.94	7.74	-137.60	9.98	-109.36	7.96
South	U26-L26	531	100.00 ft	22.22%	---	-149.47	-137.77	25.45	-108.91	15.69	-63.86	15.19	-94.93	20.50	-107.59	20.63	-111.82	21.36	-137.25	23.48	-110.10	18.91
South	U27-L27	532	100.00 ft	22.22%	---	-307.45	-197.53	18.48	-180.20	9.48	-89.21	8.31	-133.61	12.46	-152.74	14.31	-174.29	16.84	-204.38	22.70	-173.49	16.44
South	U28-L28	533	170.00 ft	16.95%	---	-404.84	-202.05	18.20	-201.16	9.24	-89.71	8.03	-135.01	12.12	-155.21	13.99	-188.10	17.27	-224.90	24.46	-189.98	18.06
South	U29-L29	534	170.00 ft	16.95%	---	-428.71	-193.41	16.37	-206.51	8.16	-87.81	7.42	-131.05	11.08	-149.21	12.65	-182.46	15.62	-221.47	22.48	-191.09	18.07
South	U30-L30	535	170.00 ft	16.95%	---	-804.36	-213.93	40.82	-308.90	27.40	-93.88	18.09	-141.27	27.17	-164.80	31.59	-219.35	40.64	-284.03	44.24	-261.44	37.86
South	U31-L31	536	170.00 ft	16.95%	---	-499.69	-228.70	53.15	-249.18	36.79	-101.12	23.72	-151.90	35.61	-174.42	41.04	-228.76	51.42	-275.15	58.67	-251.83	51.48
South	U32-L32	537	200.00 ft	15.38%	---	-498.51	-230.91	50.24	-248.06	41.30	-102.52	22.45	-153.80	33.60	-176.41	39.08	-229.26	50.17	-271.73	58.23	-248.90	52.10
South	U33-L33	538	200.00 ft	15.38%	---	-408.81	-202.38	52.31	-212.11	44.01	-90.49	23.33	-135.42	34.93	-154.98	40.61	-198.17	52.15	-233.26	61.51	-215.65	54.52
South	U34-L34	539	200.00 ft	15.38%	---	-213.01	-129.90	58.29	-139.83	36.26	-58.74	27.03	-87.55	40.15	-99.68	45.71	-124.33	48.43	-155.97	58.16	-134.23	46.22
South	U35-L35	540	200.00 ft	15.38%	---	-123.25	-132.07	9.96	-118.22	3.07	-75.72	5.66	-110.85	8.29	-120.84	9.06	-103.90	7.80	-131.57	9.87	-101.16	7.30
South	U36-L36	541	200.00 ft	15.38%	---	-289.49	-167.88	54.81	-172.31	37.85	-73.92	24.45	-111.51	36.74	-128.55	42.18	-160.33	51.87	-194.82	59.34	-166.76	52.25
South	U37-L37	542	200.00 ft	15.38%	---	-441.34	-214.17	58.25	-222.99	40.21	-93.67	25.80	-141.58	38.86	-163.58	44.72	-208.94	56.07	-247.94	65.03	-226.84	57.12
South	U38-L38	543	180.00 ft	16.39%	---	-517.87	-248.76	58.43	-266.64	42.57	-108.77	25.92	-164.41	38.99	-189.94	44.92	-244.44	56.74	-295.44	65.51	-269.39	57.87
South	U39-L39	544	180.00 ft	16.39%	---	-495.35	-229.49	54.14	-249.82	41.59	-100.43	24.11	-151.75	36.12	-175.27	41.99	-225.36	54.00	-272.69	61.91	-248.40	55.45
South	U40-L40	545	180.00 ft	16.39%	---	-796.24	-222.62	46.78	-314.36	28.86	-97.84	20.66	-147.61	31.18	-171.27	36.05	-223.68	46.19	-286.85	54.31	-260.24	47.30
South	U41-L41	546	180.00 ft	16.39%	---	-473.16	-183.03	13.72	-218.37	6.47	-86.44	6.50	-126.54	9.49	-145.30	10.93	-180.22	13.96	-219.43	21.54	-199.16	18.14
South	U42-L42	547	120.00 ft	20.41%	---	-473.75	-202.73	15.62	-227.10	7.47	-90.18	6.63	-135.25	10.13	-154.99	11.83	-198.42	15.82	-239.12	23.66	-209.90	18.55
South	U43-L43	548	120.00 ft	20.41%	---	-400.49	-196.32	14.23	-205.57	7.34	-89.47	6.57	-133.02	9.74	-151.76	11.14	-185.20	12.97	-220.63	18.95	-190.08	15.44
South	U44-L44	549	120.00 ft	20.41%	5.65%	-225.61	-137.34	23.91	-137.63	16.18	-64.03	12.60	-94.56	17.92	-107.35	19.31	-122.79	19.08	-143.75	20.47	-126.16	16.24
South	U45-L45	550	120.00 ft	20.41%	5.40%	-122.92	-130.73	9.11	-123.05	2.77	-74.92	5.17	-109.69	7.55	-119.72	8.27	-103.08	7.17	-130.73	9.12	-104.38	7.42
South	U46-L46	551	120.00 ft	20.41%	5.68%	-225.90	-150.34	17.42	-137.57	10.72	-68.21	10.37	-102.06	14.16	-116.47	14.27	-132.04	14.31	-154.01	19.41	-129.96	13.52
South	U47-L47	552	120.00 ft	20.41%	6.78%	-400.30	-202.11	13.77	-209.40	7.20	-90.25	6.14	-135.67	9.24	-155.67	10.62	-186.18	12.51	-221.60	17.44	-188.37	12.70
South	U48-L48	553	210.00 ft	14.93%	7.64%	-477.63	-192.19	13.30	-220.31	8.54	-84.61	5.65	-128.33	8.62	-148.83	10.09	-185.21	13.29	-222.48	19.54	-193.67	15.09
South	U49-L49	554	210.00 ft	14.93%	4.94%	-466.80	-177.18	14.55	-209.54	8.31	-80.57	6.83	-121.01	10.10	-138.80	11.40	-169.73	13.75	-192.51	21.88	-183.77	17.96
South	U50-L50	555	210.00 ft	14.93%	6.57%	-892.72	-190.47	38.66	-313.51	27.38	-82.87	16.91	-125.96	25.70	-146.46	29.86	-194.05	38.28	-263.94	38.52	-237.55	37.21
South	U51-L51	556	210.00 ft	14.93%	12.22%	-530.26	-184.12	48.25	-235.78	42.94	-80.14	21.50	-121.85	32.56	-140.89	37.63	-183.74	46.90	-227.34	54.36	-205.75	48.73
South	U52-L52	557	260.00 ft	12.99%	9.47%	-554.48	-199.67	48.68	-250.19	41.50	-86.92	21.44	-132.10	32.42	-152.86	37.54	-199.21	48.96	-234.29	54.93	-219.52	49.88
South	U53-L53	558	260.00 ft	12.99%	7.58%	-478.05	-183.95	53.63	-221.86	45.43	-80.15	23.31	-121.75	35.58	-140.84	41.31	-182.26	53.91	-221.98	61.53	-201.68	55.10
South	U54-L54	559	260.00 ft	12.99%	6.44%	-375.27	-167.67	58.74	-198.89	49.62	-73.34	25.52	-111.29	38.95	-128.59	45.24	-165.00	59.03	-197.89	68.14	-183.42	60.47
South	U55-L55	560	260.00 ft	12.99%	5.68%	-154.07	-110.84	57.18	-126.77	40.51	-48.76	25.64	-73.84	38.63	-85.21	44.36	-106.93	53.37	-122.72	59.87	-113.76	50.50
South	U56-L56	561	260.00 ft	12.99%	5.49%	-98.68	-111.97	15.41	-104.68	5.48	-62.88	8.53	-93.01	12.53	-102.62	13.90	-89.16	12.05	-111.52	15.40	-89.73	12.23

TranSystems

Made By SFH Date 3/30/2012
Checked By DWC Date 3/30/2012

Loading Per AASHTO 17th Standard Edition and ODOT Bridge Design Manual 2004 Ed
Impact Per AASHTO 3.8.2 Multiple Presence per AASHTO 3.12.1
* Based on C = 9.47% for Bend Point 1 (R = 1762.95'), C = 16.7% for Bend Point 2 (R = 1000')

Job No. P402110046
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
South	U57-L57	562	260.00 ft	12.99%	5.68%	-272.80	-124.88	43.74	-155.81	37.92	-54.59	19.17	-82.60	29.19	-95.64	33.76	-122.56	42.34	-154.03	50.55	-137.80	44.77
South	U58-L58	563	260.00 ft	12.99%	6.44%	-457.93	-171.50	44.78	-205.15	39.50	-74.98	19.78	-113.52	29.98	-131.45	34.58	-169.36	44.12	-205.86	53.28	-174.51	47.34
South	U59-L59	564	260.00 ft	12.99%	7.58%	-543.45	-184.24	42.07	-232.11	38.28	-80.32	18.34	-121.71	27.98	-141.06	32.43	-183.60	41.70	-224.89	49.95	-198.29	44.44
South	U60-L60	565	220.00 ft	14.49%	9.47%	-561.69	-197.88	48.46	-254.43	40.56	-86.48	21.07	-131.05	32.15	-151.71	37.33	-196.67	48.72	-238.91	56.21	-220.24	50.37
South	U61-L61	566	220.00 ft	14.49%	12.31%	-504.14	-182.56	56.93	-234.60	48.43	-80.12	24.75	-121.29	37.77	-140.23	43.86	-179.66	57.23	-220.61	65.38	-200.37	58.60
South	U62-L62	567	220.00 ft	14.49%	---	-841.08	-217.13	54.69	-305.30	24.32	-95.06	23.82	-144.91	36.16	-168.30	42.08	-217.93	54.38	-266.27	61.94	-240.31	53.39
South	U63-L63	568	220.00 ft	14.49%	---	-454.64	-177.88	15.19	-203.09	7.41	-79.70	6.81	-120.67	10.35	-139.24	11.92	-159.49	13.53	-210.15	20.76	-157.71	13.48
South	U64-L64	569	220.00 ft	14.49%	---	-468.89	-182.62	15.95	-214.81	8.26	-81.21	7.09	-122.96	10.78	-141.90	12.43	-176.25	15.50	-217.97	24.29	-193.71	20.16
South	U65-L65	570	120.00 ft	20.41%	---	-468.24	-202.65	15.12	-225.70	7.48	-88.17	6.49	-133.37	9.87	-155.35	11.53	-196.13	15.55	-238.74	24.30	-208.05	19.20
South	U66-L66	571	120.00 ft	20.41%	---	-376.56	-193.72	14.84	-198.11	8.12	-85.40	6.55	-129.17	9.83	-149.71	11.53	-179.62	13.64	-216.88	21.72	-186.45	17.39
South	U67-L67	572	120.00 ft	20.41%	---	-205.95	-138.98	23.57	-125.42	16.47	-62.06	12.75	-93.92	18.15	-108.34	20.18	-122.02	19.86	-144.94	20.84	-123.92	17.65
South	U68-L68	573	120.00 ft	20.41%	---	-122.91	-134.37	9.23	-119.15	2.67	-74.67	5.22	-111.44	7.75	-123.63	8.65	-106.87	7.48	-135.01	9.45	-107.15	7.38
South	U69-L69	574	120.00 ft	20.41%	---	-219.36	-146.07	20.69	-129.72	12.96	-66.07	11.64	-99.08	16.66	-114.51	18.12	-131.44	18.54	-153.33	24.17	-128.44	18.25
South	U70-L70	575	120.00 ft	20.41%	---	-381.82	-198.99	18.07	-198.92	9.61	-88.44	8.11	-133.28	12.22	-154.32	14.23	-187.13	17.02	-222.71	24.38	-188.04	18.69
South	U71-L71	576	250.00 ft	13.33%	---	-473.70	-196.40	17.72	-213.36	8.88	-86.23	7.79	-130.40	11.77	-150.72	13.66	-190.30	17.24	-230.11	25.13	-201.55	19.98
South	U72-L72	577	250.00 ft	13.33%	---	-497.06	-188.01	16.59	-218.19	8.71	-84.28	7.39	-126.56	11.14	-146.68	12.98	-183.81	16.36	-222.56	22.60	-202.68	19.64
South	U73-L73	578	250.00 ft	13.33%	---	-453.15	-175.32	16.60	-201.10	8.56	-79.47	7.54	-119.37	11.39	-138.22	13.25	-158.82	14.93	-211.20	25.54	-179.14	19.90
South	U74-L74	579	250.00 ft	13.33%	---	-925.35	-215.37	77.25	-340.78	66.65	-91.90	33.59	-140.36	51.01	-163.86	59.18	-224.16	76.96	-311.83	91.31	-285.47	82.23
South	U75-L75	580	250.00 ft	13.33%	---	-655.36	-229.29	95.28	-344.01	81.97	-98.02	41.22	-148.75	62.99	-174.23	73.33	-236.97	97.24	-327.04	112.45	-300.40	102.96
South	U76-L76	581	320.00 ft	11.24%	---	-720.10	-252.58	93.58	-377.97	86.74	-107.96	40.36	-163.94	61.61	-191.89	71.80	-260.98	96.65	-353.10	111.89	-327.72	104.87
South	U77-L77	582	320.00 ft	11.24%	---	-673.68	-246.84	98.04	-363.89	94.39	-105.50	42.06	-160.23	64.22	-187.56	74.96	-254.36	101.79	-335.14	118.72	-315.08	111.43
South	U78-L78	583	320.00 ft	11.24%	---	-566.70	-224.23	99.93	-321.35	96.56	-95.98	42.87	-145.67	65.46	-170.51	76.40	-230.28	103.76	-307.05	121.14	-282.06	113.76
South	U79-L79	584	320.00 ft	11.24%	---	-388.85	-187.33	94.00	-265.12	91.16	-80.24	40.33	-121.71	61.58	-142.52	71.87	-191.73	97.63	-254.56	114.09	-233.65	107.19
South	U80-L80	585	320.00 ft	11.24%	---	-166.55	-145.33	81.61	-196.06	79.45	-62.62	35.01	-94.78	53.47	-110.87	62.40	-146.96	84.77	-193.61	99.18	-176.01	93.22
South	U81-L81	586	320.00 ft	11.24%	---	31.81	-114.26	83.11	-137.17	70.95	-49.32	36.30	-74.71	55.08	-87.30	63.76	-114.94	82.15	-142.02	97.08	-128.48	85.42
South	U82-L82	587	320.00 ft	11.24%	---	-131.98	-126.62	9.29	-112.42	2.71	-70.02	5.04	-104.55	7.52	-116.08	8.44	-100.90	7.51	-126.69	9.38	-100.86	7.42
South	U83-L83	588	320.00 ft	11.24%	---	-510.69	-134.10	53.40	-218.08	38.30	-57.77	23.51	-87.88	35.44	-102.07	41.22	-135.99	51.41	-207.56	62.33	-171.23	53.63
South	U84-L84	589	320.00 ft	11.24%	---	-667.72	-164.34	48.00	-254.80	40.92	-70.67	20.87	-107.48	31.90	-124.92	37.07	-167.79	48.41	-240.34	62.23	-217.44	55.47
South	U85-L85	590	320.00 ft	11.24%	---	-780.58	-191.95	53.06	-288.81	44.62	-82.41	23.05	-125.43	35.21	-145.81	40.93	-196.73	53.67	-273.32	66.04	-251.00	59.86
South	U86-L86	591	300.00 ft	11.76%	---	-801.65	-224.54	67.30	-329.13	58.07	-96.37	29.07	-146.63	44.38	-170.49	51.65	-231.34	68.88	-312.11	81.81	-288.20	74.70
South	U87-L87	592	300.00 ft	11.76%	---	-706.20	-239.55	94.00	-356.35	84.38	-102.82	40.31	-156.43	61.64	-181.88	71.88	-246.56	97.67	-330.24	114.33	-309.57	107.13
South	U88-L88	593	300.00 ft	11.76%	---	-546.73	-250.38	140.35	-367.82	130.40	-107.80	60.19	-163.84	92.03	-190.33	107.32	-257.09	145.82	-346.61	170.77	-320.91	160.03
South	U89-L89	594	300.00 ft	11.76%	---	-360.93	-225.52	149.82	-316.85	139.62	-97.31	64.25	-147.81	98.24	-171.72	114.56	-230.12	155.67	-309.84	182.29	-283.33	170.83
South	U90-L90	595	300.00 ft	11.76%	---	289.42	-229.51	335.01	-282.80	321.20	-99.05	143.97	-151.41	219.96	-176.20	256.24	-236.96	345.23	-306.61	405.09	-277.89	379.44
South	U91-L91	596	300.00 ft	11.76%	---	-148.08	-168.56	58.95	-109.63	54.62	-75.53	25.43	-114.35	38.69	-131.96	45.05	-148.42	58.24	-145.17	69.21	-109.28	62.06
South	U92-L92	597	300.00 ft	11.76%	---	-371.48	-182.78	15.03	-172.69	6.40	-81.80	6.71	-123.85	10.20	-142.96	11.77	-162.46	13.52	-189.44	17.31	-158.58	14.20
South	U93-L93	598	300.00 ft	11.76%	---	-506.32	-182.05	16.63	-211.13	8.53	-81.11	7.39	-122.77	11.17	-141.90	12.99	-163.11	14.86	-217.85	25.38	-188.32	21.62
South	U94-L94	599	300.00 ft	11.76%	---	-701.24	-191.63	16.48	-262.50	9.53	-83.71	7.27	-126.67	10.98	-147.18	12.81	-185.01	15.41	-245.54	28.30	-224.01	25.13
South	U95-L95	600	300.00 ft	11.76%	---	-727.99	-199.88	17.34	-273.16	10.56	-85.73	7.52	-129.91	11.37	-152.17	13.30	-203.49	17.84	-269.80	32.91	-234.00	26.18
South	U96-L96	601	160.00 ft	17.54%	---	-649.47	-207.06	18.01	-264.30	10.66	-89.32	7.83	-135.04	11.84	-158.04	13.84	-207.76	18.38	-265.99	32.61	-239.71	26.10
South	U97-L97	602	160.00 ft	17.54%	---	-512.82	-185.75	16.41	-220.62	9.34	-80.53	7.17	-121.78	10.79	-142.12	12.66	-183.02	16.41	-226.36	26.19	-204.26	22.40
South	U98-L98	603	160.00 ft	17.54%	---	-374.18	-158.76	19.92	-171.08	12.62	-69.31	10.43	-104.62	14.81	-121.89	16.66	-153.05	18.16	-185.61	23.07	-160.60	18.55
South	U99-L99	604	160.00 ft	17.54%	---	-226.28	-128.11	39.48	-117.18	20.62	-56.42	19.53	-84.88	28.67	-98.80	31.91	-119.65	27.42	-143.29	32.01	-115.34	21.59
South	U100-L100	605	160.00 ft	17.54%	---	-128.07	-133.91	10.05	-118.76	2.90	-74.08	5.48	-110.59	8.17	-122.79	9.16	-106.68	8.11	-134.32	10.08	-85.29	3.28
South	U101-L101	606	160.00 ft	17.54%	---	-184.50	-115.98	48.61	-97.80	23.70	-51.39	23.40	-77.58	34.27	-89.34	39.26	-108.08	33.28	-125.68	31.54	-98.66	21.45
South	U102-L102	607	160.00 ft	17.54%	---	-351.79	-150.84	21.97	-157.11	13.89	-66.17	11.38	-100.12	16.58	-115.65	17.99	-145.51	20.33	-174.16	20.31	-149.51	15.32
South	U103-L103	608	160.00 ft	17.54%	---	-495.35	-177.48	14.14	-207.62	7.44	-77.25	6.18	-117.12	9.32	-135.63	10.80	-175.10	13.95	-214.01	20.33	-194.22	17.64
South	U104-L104	609	290.00 ft	12.05%	---	-640.38	-193.50	14.27	-244.01	8.37	-83.74	6.27	-127.22	9.41	-147.57	10.89	-193.69	14.57	-246.76	25.86	-222.26	20.30
South	U105-L105	610	290.00 ft	12.05%	---	-730.72	-196.09	13.89	-268.54	8.31	-84.16	6.07	-128.12	9.16	-149.00	10.64	-200.13	14.42	-266.41	28.83	-229.51	22.22
South	U106-L106	611	290.00 ft	12.05%	---	-672.03	-185.77	13.27	-250.13	7.07	-82.22	5.98	-124.06	9.05	-143.51	10.53	-178.04	12.43	-229.50	25.26	-209.60	20.46
South	U107-L107	612	290.00 ft	12.05%	---	-543.30	-183.13	14.01	-217.63	6.61	-82.33	6.33	-123.68	9.61	-143.35	11.16	-167.28	12.81	-222.42	21.59	-194.32	18.54

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
South	U108-L108	613	290.00 ft	12.05%	---	-353.13	-175.01	14.83	-165.51	6.10	-79.19	6.69	-118.94	10.16	-137.77	11.80	-157.13	13.62	-182.36	16.66	-148.24	14.06
South	U109-L109	614	290.00 ft	12.05%	---	-28.47	-164.08	84.62	-74.27	81.38	-75.31	36.85	-113.36	55.88	-130.66	64.99	-144.05	84.57	-120.93	106.91	-96.99	96.39
South	U110-L110	615	290.00 ft	12.05%	---	-132.23	-230.12	316.88	-298.96	306.94	-99.50	136.49	-151.95	208.54	-176.78	242.84	-237.04	327.10	-308.53	387.99	-282.86	361.90
South	U111-L111	616	290.00 ft	12.05%	---	-541.36	-216.49	139.17	-311.80	130.06	-93.66	59.74	-142.53	91.25	-165.47	106.45	-220.50	144.77	-299.39	169.51	-275.13	159.00
South	U112-L112	617	290.00 ft	12.05%	---	-704.03	-221.84	116.01	-327.13	107.93	-95.57	49.80	-145.65	76.07	-169.23	88.74	-227.11	120.69	-306.05	141.33	-287.15	132.57
South	U113-L113	618	290.00 ft	12.05%	---	-829.15	-209.88	72.32	-310.77	65.33	-90.06	31.03	-137.55	47.41	-159.83	55.31	-214.92	75.28	-284.82	88.20	-272.26	82.78
South	U114-L114	619	290.00 ft	12.05%	---	-883.78	-185.93	25.33	-281.75	21.64	-79.88	10.99	-122.00	16.68	-141.61	19.33	-188.85	25.83	-263.77	43.39	-236.94	37.84
South	U115-L115	620	320.00 ft	11.24%	---	-813.86	-156.44	29.09	-257.52	16.15	-67.16	12.69	-102.52	19.29	-118.98	22.32	-159.47	28.45	-239.80	40.52	-214.36	34.29
South	U116-L116	621	320.00 ft	11.24%	11.46%	-681.51	-119.71	45.45	-223.89	29.01	-51.38	19.77	-78.33	29.98	-91.04	34.71	-121.76	44.45	-179.56	47.37	-164.70	42.63
South	U117-L117	622	320.00 ft	11.24%	11.22%	-557.52	-104.84	53.72	-189.38	34.39	-45.03	23.40	-68.59	35.43	-79.87	41.00	-106.12	52.53	-161.64	52.57	-131.03	45.70
South	U118-L118	623	320.00 ft	11.24%	11.06%	-101.94	-99.22	17.87	-98.20	6.50	-55.90	9.94	-82.50	14.68	-91.22	16.21	-79.44	13.91	-99.79	17.72	-79.41	6.56
South	U119-L119	624	320.00 ft	11.24%	11.02%	187.10	-81.85	76.25	-70.22	78.58	-35.59	33.19	-53.86	50.49	-62.56	58.50	-82.07	74.84	-83.50	87.42	-76.43	72.45
South	U120-L120	625	320.00 ft	11.24%	11.22%	-16.09	-107.89	68.51	-133.98	72.39	-46.87	29.48	-71.09	45.13	-82.58	52.49	-109.01	69.68	-113.02	82.08	-119.93	76.99
South	U121-L121	626	320.00 ft	11.24%	11.79%	-257.61	-139.60	76.37	-202.54	82.35	-60.22	32.75	-91.63	50.07	-106.45	58.40	-142.31	79.43	-181.31	93.53	-167.89	87.72
South	U122-L122	627	320.00 ft	11.24%	12.89%	-490.82	-171.34	81.28	-261.84	87.44	-73.99	34.86	-112.59	53.30	-130.67	62.16	-174.39	84.52	-229.23	99.47	-210.69	93.29
South	U123-L123	628	320.00 ft	11.24%	14.60%	-675.35	-191.29	78.56	-295.95	84.34	-82.73	33.69	-125.81	51.52	-145.94	60.09	-194.29	81.68	-248.19	96.08	-238.51	90.11
South	U124-L124	629	320.00 ft	11.24%	17.03%	-834.42	-208.06	74.15	-321.95	79.45	-90.19	31.83	-136.98	48.64	-158.81	56.71	-210.58	77.08	-282.39	90.64	-261.37	84.99
South	U125-L125	630	320.00 ft	11.24%	20.34%	-866.25	-202.42	61.81	-307.24	65.79	-87.93	26.55	-133.54	40.55	-154.70	47.29	-203.58	64.25	-280.19	75.22	-252.91	70.53
South	U126-L126	631	320.00 ft	11.24%	10.99%	-910.85	-238.02	56.30	-314.79	59.46	-98.54	24.17	-152.90	36.92	-176.22	43.07	-237.45	58.58	-325.02	68.71	-292.63	64.42
North	U0-L0	632	140.00 ft	18.87%	---	-513.24	-204.65	18.40	-216.82	13.94	-91.49	8.82	-136.81	12.88	-156.40	14.33	-204.40	16.25	-243.63	20.93	-217.77	16.60
North	U1-L1	633	140.00 ft	18.87%	---	-495.84	-203.77	14.54	-222.16	9.35	-91.50	6.90	-136.76	10.13	-156.21	11.52	-197.37	12.72	-234.75	17.47	-206.05	13.79
North	U2-L2	634	140.00 ft	18.87%	---	-392.42	-184.60	13.17	-188.73	7.71	-84.04	6.60	-125.06	9.52	-142.57	10.52	-173.95	11.32	-203.23	14.92	-176.41	11.89
North	U3-L3	635	140.00 ft	18.87%	---	-236.27	-151.23	28.04	-135.26	14.64	-70.49	13.68	-104.06	20.03	-118.18	22.35	-135.80	19.92	-153.62	20.73	-136.20	15.38
North	U4-L4	636	140.00 ft	18.87%	---	-6.29	-89.59	75.33	-49.41	34.64	-43.16	35.10	-63.05	52.10	-70.12	58.95	-73.58	59.56	-77.43	61.95	-71.44	48.14
North	U5-L5	637	140.00 ft	18.87%	---	-125.08	-136.11	10.48	-122.24	3.45	-78.02	5.96	-114.22	8.73	-124.53	9.53	-107.14	8.28	-135.57	10.36	-107.05	8.17
North	U6-L6	638	140.00 ft	18.87%	---	-427.71	-178.63	11.65	-192.51	7.20	-78.65	5.34	-118.66	7.95	-136.78	9.03	-170.74	10.37	-205.15	15.80	-176.93	12.22
North	U7-L7	639	200.00 ft	15.38%	---	-558.92	-197.43	13.79	-186.87	6.98	-86.36	6.11	-130.53	9.20	-150.78	10.59	-193.00	12.93	-233.35	19.36	-213.58	17.55
North	U8-L8	640	200.00 ft	15.38%	---	-581.21	-193.95	14.54	-238.30	7.99	-86.42	6.58	-129.75	9.84	-148.73	11.22	-189.53	13.69	-242.70	22.85	-216.98	18.97
North	U9-L9	641	200.00 ft	15.38%	---	-559.54	-190.46	14.35	-233.35	7.50	-85.60	6.47	-128.40	9.71	-147.03	11.13	-173.01	12.33	-237.26	22.37	-200.80	17.93
North	U10-L10	642	200.00 ft	15.38%	---	-717.75	-212.78	55.92	-320.80	44.48	-93.14	24.50	-140.43	37.04	-163.78	43.03	-218.53	56.53	-278.61	63.24	-260.97	59.81
North	U11-L11	643	200.00 ft	15.38%	---	-363.62	-221.82	62.69	-272.31	49.80	-97.81	27.90	-147.10	42.01	-169.08	48.74	-222.28	62.38	-268.26	71.43	-245.28	61.52
North	U12-L12	644	200.00 ft	15.38%	---	-372.63	-216.71	70.95	-257.23	55.42	-96.21	31.57	-144.36	47.54	-165.51	55.16	-214.98	70.22	-255.03	77.75	-233.60	69.67
North	U13-L13	645	200.00 ft	15.38%	---	-327.27	-192.05	74.68	-235.20	57.52	-85.79	33.22	-128.44	50.03	-146.95	58.06	-188.14	73.93	-225.02	82.24	-210.78	73.38
North	U14-L14	646	200.00 ft	15.38%	---	-238.68	-129.93	66.72	-180.78	46.72	-58.71	30.41	-87.54	45.48	-99.67	52.10	-124.61	60.70	-168.74	69.38	-145.35	59.98
North	U15-L15	647	200.00 ft	15.38%	---	-125.20	-130.37	9.62	-125.61	4.42	-74.80	5.43	-109.50	7.96	-119.36	8.71	-102.72	7.64	-130.50	9.76	-104.20	8.01
North	U16-L16	648	200.00 ft	15.38%	---	-138.28	-150.72	74.99	-186.89	32.82	-66.45	32.88	-100.20	49.66	-115.46	57.45	-143.75	74.89	-183.11	87.50	-155.51	53.46
North	U17-L17	649	200.00 ft	15.38%	---	-251.20	-210.62	86.38	-246.55	39.49	-92.22	37.68	-139.35	57.00	-160.94	66.03	-205.21	87.20	-244.18	99.96	-223.57	64.67
North	U18-L18	650	180.00 ft	16.39%	---	-306.04	-231.98	81.01	-274.36	41.68	-101.35	35.46	-153.24	53.58	-177.10	62.06	-227.98	81.42	-275.42	92.57	-251.01	67.36
North	U19-L19	651	180.00 ft	16.39%	---	-308.78	-229.77	70.35	-264.90	49.86	-100.48	31.13	-151.85	46.90	-175.45	54.40	-225.60	70.15	-272.94	79.18	-248.48	67.99
North	U20-L20	652	180.00 ft	16.39%	---	-615.57	-222.05	62.24	-304.42	37.52	-97.06	27.39	-146.70	41.28	-170.38	47.83	-224.98	62.75	-276.76	69.46	-258.72	54.72
North	U21-L21	653	180.00 ft	16.39%	---	-411.77	-181.46	14.59	-202.93	8.77	-85.31	6.98	-125.60	10.22	-143.90	11.77	-163.25	12.80	-209.89	20.70	-179.21	16.43
North	U22-L22	654	180.00 ft	16.39%	---	-437.42	-186.01	13.02	-210.35	8.43	-86.09	6.21	-127.10	9.06	-145.42	10.44	-180.56	12.86	-218.83	20.83	-191.11	16.63
North	U23-L23	655	100.00 ft	22.22%	---	-396.09	-197.25	13.48	-206.17	9.68	-89.51	6.13	-133.33	9.14	-151.93	10.42	-186.40	12.62	-220.50	19.89	-189.54	14.84
North	U24-L24	656	100.00 ft	22.22%	---	-261.68	-158.98	14.43	-152.26	10.47	-74.02	6.68	-109.34	9.92	-124.89	11.22	-142.92	12.34	-164.59	13.79	-142.26	11.54
North	U25-L25	657	100.00 ft	22.22%	---	-121.51	-137.56	9.94	-125.61	3.55	-79.06	5.69	-115.67	8.31	-126.06	9.08	-107.93	7.74	-137.59	9.99	-109.36	7.97
North	U26-L26	658	100.00 ft	22.22%	---	-150.01	-137.79	25.42	-109.84	16.47	-63.86	15.18	-94.94	20.48	-107.60	20.61	-111.83	21.29	-137.24	23.47	-110.16	18.83
North	U27-L27	659	100.00 ft	22.22%	---	-308.29	-197.54	18.48	-182.04	11.66	-89.21	8.31	-133.62	12.46	-152.74	14.31	-174.30	16.83	-204.38	22.70	-173.49	16.44
North	U28-L28	660	170.00 ft	16.95%	---	-405.48	-201.91	18.22	-201.35	13.55	-89.64	8.04	-134.90	12.14	-155.10	14.01	-188.00	17.29	-224.76	24.48	-189.88	18.07
North	U29-L29	661	170.00 ft	16.95%	---	-428.88	-193.40	16.29	-207.45	12.46	-87.80	7.37	-131.04	11.01	-149.20	12.58	-182.44	15.56	-221.45	22.40	-191.09	17.99
North	U30-L30	662	170.00 ft	16.95%	---	-822.02	-214.71	41.06	-329.57	28.30	-94.31	18.20	-141.86	27.35	-165.46	31.78	-220.26	40.63	-285.64	44.61	-263.04	38.11
North	U31-L31	663	170.00 ft	16.95%	---	-512.64	-229.85	53.31	-283.28	38.08	-101.59	23.79	-152.62	35.72	-175.28	41.14	-230.10	51.48	-277.35	58.71	-253.78	51.47

TranSystems

Made By SFH Date 3/30/2012
Checked By DWC Date 3/30/2012

Loading Per AASHTO 17th Standard Edition and ODOT Bridge Design Manual 2004 Ed
Impact Per AASHTO 3.8.2 Multiple Presence per AASHTO 3.12.1
* Based on C = 9.47% for Bend Point 1 (R = 1762.95'), C = 16.7% for Bend Point 2 (R = 1000')

Job No. P402110046
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
North	U32-L32	664	200.00 ft	15.38%	---	-513.59	-232.22	50.98	-277.93	40.26	-103.02	22.76	-154.59	34.09	-177.34	39.62	-230.86	50.92	-274.14	58.55	-251.13	52.26
North	U33-L33	665	200.00 ft	15.38%	---	-426.04	-204.32	53.53	-234.93	41.92	-91.26	23.84	-136.61	35.72	-156.39	41.51	-200.48	53.45	-236.19	62.04	-218.60	54.70
North	U34-L34	666	200.00 ft	15.38%	---	-229.17	-132.17	58.12	-148.00	34.28	-59.62	26.94	-88.92	40.01	-101.36	45.57	-126.88	48.48	-159.01	57.73	-137.21	46.02
North	U35-L35	667	200.00 ft	15.38%	---	-124.27	-131.99	10.02	-125.63	4.43	-75.67	5.69	-110.78	8.34	-120.77	9.11	-103.84	7.85	-131.49	9.92	-101.10	7.34
North	U36-L36	668	200.00 ft	15.38%	---	-281.03	-166.21	54.44	-196.47	39.56	-73.22	24.28	-110.43	36.49	-127.29	41.89	-158.66	51.53	-194.14	59.55	-166.13	52.25
North	U37-L37	669	200.00 ft	15.38%	---	-440.46	-213.48	57.63	-251.78	41.46	-93.39	25.53	-141.15	38.46	-163.07	44.24	-208.15	55.39	-247.57	65.21	-226.11	57.10
North	U38-L38	670	180.00 ft	16.39%	---	-526.20	-249.73	58.03	-294.29	43.69	-109.20	25.76	-165.05	38.74	-190.68	44.62	-245.42	56.22	-296.99	65.55	-270.68	57.73
North	U39-L39	671	180.00 ft	16.39%	---	-507.35	-231.24	53.68	-275.28	42.75	-101.18	23.94	-152.89	35.85	-176.60	41.65	-227.19	53.41	-275.25	61.88	-250.67	55.42
North	U40-L40	672	180.00 ft	16.39%	---	-826.99	-225.45	46.33	-323.62	31.97	-99.05	20.50	-149.46	30.92	-173.33	35.72	-226.59	45.65	-291.34	54.71	-263.97	47.42
North	U41-L41	673	180.00 ft	16.39%	---	-478.45	-183.35	13.83	-220.56	8.38	-86.52	6.56	-126.69	9.58	-145.46	11.04	-180.91	14.08	-219.87	22.22	-200.36	18.99
North	U42-L42	674	120.00 ft	20.41%	---	-478.96	-203.85	15.75	-230.18	9.63	-90.51	6.69	-135.83	10.21	-155.76	11.92	-199.96	16.06	-240.20	25.18	-211.20	20.00
North	U43-L43	675	120.00 ft	20.41%	---	-403.74	-198.60	14.60	-212.74	11.48	-90.35	6.68	-134.50	9.92	-153.45	11.35	-187.04	13.70	-222.95	21.67	-192.99	17.26
North	U44-L44	676	120.00 ft	20.41%	5.65%	-223.56	-153.58	25.21	-140.42	18.92	-71.55	13.11	-105.70	18.66	-120.08	20.13	-137.79	20.81	-162.59	22.56	-139.78	19.05
North	U45-L45	677	120.00 ft	20.41%	5.40%	-124.02	-140.96	10.67	-123.39	3.81	-80.74	6.07	-118.22	8.87	-129.05	9.70	-110.95	8.46	-140.97	10.67	-112.38	8.72
North	U46-L46	678	120.00 ft	20.41%	5.68%	-234.96	-157.97	22.95	-132.75	12.91	-71.36	13.08	-106.96	18.13	-122.28	18.58	-139.26	17.97	-162.34	23.59	-137.34	15.84
North	U47-L47	679	120.00 ft	20.41%	6.78%	-415.80	-213.85	20.30	-206.13	10.93	-94.78	9.33	-142.86	13.90	-164.37	15.78	-199.15	17.69	-236.36	24.65	-203.74	17.48
North	U48-L48	680	210.00 ft	14.93%	7.64%	-494.91	-203.37	21.67	-213.06	13.59	-88.86	9.79	-134.34	14.68	-155.29	17.01	-198.04	20.11	-239.14	29.16	-208.63	21.86
North	U49-L49	681	210.00 ft	14.93%	4.94%	-495.61	-187.62	19.70	-213.91	12.78	-85.28	8.94	-128.55	13.47	-147.55	15.43	-180.04	18.05	-221.44	22.98	-201.72	21.47
North	U50-L50	682	210.00 ft	14.93%	6.57%	-1071.13	-240.36	57.21	-379.55	38.71	-102.85	24.80	-156.62	37.83	-182.92	44.05	-250.46	56.35	-339.12	61.06	-311.73	55.01
North	U51-L51	683	210.00 ft	14.93%	12.22%	-750.98	-274.92	77.08	-359.17	59.23	-118.33	33.67	-179.80	51.12	-209.10	59.43	-283.09	77.12	-356.99	88.92	-331.74	79.92
North	U52-L52	684	260.00 ft	12.99%	9.47%	-801.25	-295.04	78.11	-377.69	56.18	-127.46	33.99	-193.56	51.87	-224.90	60.20	-301.81	78.42	-362.20	88.48	-344.44	80.29
North	U53-L53	685	260.00 ft	12.99%	7.58%	-717.52	-273.61	80.22	-340.67	58.77	-118.60	34.90	-180.02	53.24	-208.93	61.81	-277.28	80.54	-336.91	91.98	-310.39	82.53
North	U54-L54	686	260.00 ft	12.99%	6.44%	-590.21	-251.70	83.52	-296.33	61.82	-109.76	36.33	-166.36	55.42	-192.74	64.34	-251.74	83.87	-305.75	96.61	-281.32	86.00
North	U55-L55	687	260.00 ft	12.99%	5.68%	-276.00	-162.99	70.15	-177.42	46.21	-71.50	31.52	-108.17	47.46	-125.03	54.43	-160.29	65.62	-186.57	75.56	-174.81	63.86
North	U56-L56	688	260.00 ft	12.99%	5.49%	-158.79	-148.99	6.37	-124.95	0.25	-83.61	3.61	-123.49	5.31	-136.68	5.82	-118.90	4.99	-148.99	6.30	-119.56	5.08
North	U57-L57	689	260.00 ft	12.99%	5.68%	-384.33	-167.11	44.65	-204.74	36.67	-72.84	20.22	-110.44	30.25	-128.16	34.68	-164.49	42.82	-197.61	53.01	-180.80	45.95
North	U58-L58	690	260.00 ft	12.99%	6.44%	-672.84	-251.80	58.64	-310.17	49.83	-109.11	25.57	-165.85	38.77	-192.75	45.09	-252.56	58.59	-306.28	70.40	-271.73	62.72
North	U59-L59	691	260.00 ft	12.99%	7.58%	-780.17	-273.84	61.95	-348.69	50.85	-118.09	27.03	-179.57	41.03	-209.04	47.72	-278.30	62.03	-338.00	73.57	-307.46	65.77
North	U60-L60	692	220.00 ft	14.49%	9.47%	-800.93	-295.22	81.76	-371.30	58.54	-127.32	35.54	-193.59	54.21	-225.28	62.99	-301.28	82.00	-363.45	93.70	-345.58	83.87
North	U61-L61	693	220.00 ft	14.49%	12.31%	-695.45	-276.25	105.12	-336.18	71.65	-119.10	45.70	-181.20	69.71	-210.82	80.99	-281.47	105.42	-351.56	119.47	-328.10	107.67
North	U62-L62	694	220.00 ft	14.49%	---	-875.98	-233.99	92.62	-346.24	66.04	-100.46	40.26	-153.51	61.21	-178.90	71.22	-242.04	91.13	-301.21	106.48	-277.22	93.18
North	U63-L63	695	220.00 ft	14.49%	---	-442.56	-175.18	15.86	-205.02	10.49	-78.93	6.96	-119.25	10.71	-137.42	12.33	-157.11	14.21	-207.62	21.67	-160.97	12.97
North	U64-L64	696	220.00 ft	14.49%	---	-476.43	-182.33	15.70	-214.26	10.29	-81.44	6.86	-123.05	10.57	-141.87	12.14	-176.78	15.04	-217.87	23.78	-195.71	19.21
North	U65-L65	697	120.00 ft	20.41%	---	-477.24	-202.46	14.94	-224.97	10.18	-88.44	6.33	-133.51	9.62	-155.55	11.34	-196.86	15.15	-239.02	23.78	-209.18	18.86
North	U66-L66	698	120.00 ft	20.41%	---	-383.86	-193.46	14.95	-220.43	10.75	-85.65	6.48	-129.29	9.85	-149.71	11.53	-180.00	13.60	-217.02	21.78	-187.16	17.49
North	U67-L67	699	120.00 ft	20.41%	---	-212.87	-138.76	24.20	-136.61	15.23	-62.49	12.55	-94.00	18.28	-108.50	19.97	-122.60	20.07	-145.03	20.76	-124.50	17.63
North	U68-L68	700	120.00 ft	20.41%	---	-124.24	-134.31	9.24	-123.20	6.08	-74.65	5.20	-111.14	7.79	-123.62	8.62	-107.63	7.37	-134.50	9.54	-106.14	7.59
North	U69-L69	701	120.00 ft	20.41%	---	-215.93	-145.51	22.33	-133.58	29.75	-65.88	11.60	-98.76	17.19	-114.37	18.74	-131.10	18.66	-152.95	24.11	-128.59	18.82
North	U70-L70	702	120.00 ft	20.41%	---	-379.81	-198.57	18.39	-204.44	12.48	-88.32	8.24	-132.99	12.37	-154.33	14.36	-186.96	17.23	-223.25	24.50	-192.81	18.23
North	U71-L71	703	250.00 ft	13.33%	---	-472.38	-196.08	17.95	-212.90	18.14	-86.13	7.89	-130.17	11.91	-150.77	13.77	-190.27	17.35	-229.92	25.41	-201.24	20.42
North	U72-L72	704	250.00 ft	13.33%	---	-496.98	-187.68	16.78	-225.53	9.13	-84.18	7.47	-126.77	11.23	-146.72	13.02	-183.89	16.41	-223.64	22.53	-202.68	19.69
North	U73-L73	705	250.00 ft	13.33%	---	-453.38	-174.98	16.77	-204.70	12.58	-79.38	7.61	-119.57	11.40	-138.26	13.27	-158.76	15.01	-211.30	25.48	-179.06	19.92
North	U74-L74	706	250.00 ft	13.33%	---	-937.62	-217.69	79.19	-368.89	73.30	-93.07	34.43	-142.04	52.32	-165.69	60.64	-226.92	79.07	-317.90	94.36	-289.53	85.03
North	U75-L75	707	250.00 ft	13.33%	---	-659.78	-230.44	97.00	-391.28	89.45	-98.86	41.97	-150.02	64.16	-175.36	74.65	-239.28	99.08	-331.14	115.04	-304.17	105.28
North	U76-L76	708	320.00 ft	11.24%	---	-719.86	-252.72	95.62	-422.07	89.96	-108.44	41.13	-164.47	62.80	-192.28	73.26	-262.36	98.77	-354.15	114.13	-330.30	107.14
North	U77-L77	709	320.00 ft	11.24%	---	-675.75	-247.09	100.35	-405.23	96.60	-106.03	43.05	-160.83	65.81	-188.01	76.74	-255.87	104.27	-338.69	122.11	-317.74	114.47
North	U78-L78	710	320.00 ft	11.24%	---	-570.57	-224.27	101.85	-355.71	97.85	-96.44	43.68	-146.19	66.78	-170.79	77.88	-231.55	105.83	-308.05	123.89	-284.29	116.13
North	U79-L79	711	320.00 ft	11.24%	---	-393.33	-187.04	95.38	-293.66	91.62	-80.54	40.91	-122.11	62.54	-142.55	72.94	-192.59	99.11	-255.34	115.98	-234.19	108.72
North	U80-L80	712	320.00 ft	11.24%	---	-171.65	-144.77	82.49	-208.40	79.21	-62.76	35.38	-95.01	54.09	-110.74	63.08	-147.54	85.72	-194.29	100.26	-176.41	93.99
North	U81-L81	713	320.00 ft	11.24%	---	27.11	-113.62	83.37	-138.50	70.28	-49.38	36.44	-74.85	55.26	-87.07	63.92	-115.24	82.48	-142.55	98.32	-128.73	85.63
North	U82-L82	714	320.00 ft	11.24%	---	-131.62	-126.52	9.32	-120.09	0.49	-70.00	5.03	-104.24	7.57	-116.05	8.43	-101.56	7.43	-127.05	9.36	-101.22	7.39

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
North	U83-L83	715	320.00 ft	11.24%	---	-506.89	-134.19	52.82	-237.10	43.36	-57.84	23.41	-87.92	35.38	-102.09	40.73	-135.98	51.33	-206.14	62.72	-172.54	53.31
North	U84-L84	716	320.00 ft	11.24%	---	-664.36	-164.41	48.24	-288.06	43.99	-70.73	20.98	-107.53	32.06	-124.94	37.24	-168.02	48.67	-238.97	63.02	-217.51	55.68
North	U85-L85	717	320.00 ft	11.24%	---	-778.77	-192.27	53.48	-331.11	48.35	-82.63	23.23	-125.63	35.49	-146.11	41.24	-197.24	54.25	-273.30	66.69	-252.40	60.06
North	U86-L86	718	300.00 ft	11.76%	---	-801.09	-225.17	68.64	-369.84	61.21	-96.66	29.66	-147.01	45.24	-170.92	52.71	-232.12	70.27	-314.76	83.54	-290.52	76.43
North	U87-L87	719	300.00 ft	11.76%	---	-706.57	-240.60	96.85	-388.10	88.19	-103.31	41.55	-157.10	63.48	-182.63	74.06	-247.94	100.58	-331.61	117.43	-312.62	110.30
North	U88-L88	720	300.00 ft	11.76%	---	-549.26	-251.57	143.86	-390.37	134.68	-108.32	61.72	-164.56	94.28	-191.38	110.01	-258.60	149.38	-350.88	174.21	-324.08	163.57
North	U89-L89	721	300.00 ft	11.76%	---	-362.92	-227.48	154.73	-327.03	144.94	-98.18	66.39	-149.07	101.40	-173.38	118.32	-232.41	160.66	-313.96	187.36	-287.47	175.90
North	U90-L90	722	300.00 ft	11.76%	---	302.24	-233.83	344.46	-303.73	334.79	-100.89	148.14	-154.15	226.33	-179.41	263.55	-241.70	355.21	-314.75	420.86	-284.23	392.11
North	U91-L91	723	300.00 ft	11.76%	---	-140.94	-168.15	59.33	-105.59	60.87	-75.69	25.81	-114.36	39.00	-131.84	45.51	-148.63	59.03	-145.42	70.73	-107.80	63.21
North	U92-L92	724	300.00 ft	11.76%	---	-366.53	-182.14	15.27	-166.18	13.19	-81.86	6.71	-123.68	10.33	-142.63	11.88	-162.56	13.66	-189.38	17.37	-160.09	14.00
North	U93-L93	725	300.00 ft	11.76%	---	-502.34	-181.46	16.84	-209.20	11.24	-81.20	7.37	-122.65	11.27	-141.62	13.07	-163.21	14.91	-216.17	25.70	-189.04	21.62
North	U94-L94	726	300.00 ft	11.76%	---	-695.97	-190.73	16.79	-261.12	12.63	-83.67	7.31	-126.36	11.15	-146.84	12.97	-184.78	15.59	-246.96	28.55	-223.71	25.41
North	U95-L95	727	300.00 ft	11.76%	---	-723.09	-198.84	17.76	-280.03	20.22	-85.60	7.60	-129.87	11.50	-151.70	13.55	-203.27	18.05	-268.56	33.52	-233.11	26.75
North	U96-L96	728	160.00 ft	17.54%	---	-643.61	-205.89	18.49	-306.97	16.76	-89.13	7.93	-134.77	11.99	-157.47	14.13	-207.46	18.63	-265.30	33.15	-238.89	26.91
North	U97-L97	729	160.00 ft	17.54%	---	-500.25	-183.42	16.78	-216.25	13.73	-79.83	7.23	-120.49	10.94	-140.65	12.86	-181.53	16.56	-224.18	27.23	-203.07	22.81
North	U98-L98	730	160.00 ft	17.54%	---	-360.22	-156.23	21.40	-158.76	13.56	-68.51	11.09	-103.18	15.99	-120.26	17.59	-151.39	19.16	-183.61	24.18	-158.43	19.48
North	U99-L99	731	160.00 ft	17.54%	---	-208.20	-124.40	41.17	-111.33	24.00	-55.09	20.42	-82.62	29.98	-96.25	33.40	-116.96	28.88	-139.97	33.85	-110.91	23.22
North	U100-L100	732	160.00 ft	17.54%	---	-127.00	-133.60	10.08	-107.42	0.58	-73.96	5.48	-110.14	8.24	-122.60	9.17	-107.20	8.02	-133.69	10.11	-83.07	3.82
North	U101-L101	733	160.00 ft	17.54%	---	-204.16	-119.49	45.96	-102.40	24.32	-53.00	22.45	-79.98	32.58	-92.11	37.45	-112.10	32.06	-131.18	29.61	-102.88	20.18
North	U102-L102	734	160.00 ft	17.54%	---	-362.28	-151.72	22.03	-159.07	13.03	-66.58	10.84	-100.75	16.12	-116.41	17.68	-146.97	19.31	-176.57	19.37	-150.37	14.56
North	U103-L103	735	160.00 ft	17.54%	---	-505.49	-178.28	13.57	-210.45	7.63	-77.66	5.91	-117.72	8.89	-136.33	10.36	-176.56	13.34	-216.14	19.59	-196.41	16.14
North	U104-L104	736	290.00 ft	12.05%	---	-647.56	-193.62	13.80	-239.57	11.30	-83.92	5.97	-127.36	8.97	-147.79	10.46	-194.28	14.08	-247.99	24.37	-222.59	19.70
North	U105-L105	737	290.00 ft	12.05%	---	-735.86	-196.19	13.49	-268.97	8.38	-84.22	5.90	-128.15	8.90	-149.01	10.26	-200.16	13.98	-266.44	27.71	-229.73	21.07
North	U106-L106	738	290.00 ft	12.05%	---	-683.66	-186.22	13.01	-255.38	8.23	-82.31	5.86	-124.17	8.79	-143.92	10.22	-179.54	12.00	-249.03	21.27	-216.39	18.80
North	U107-L107	739	290.00 ft	12.05%	---	-562.59	-183.50	13.85	-223.83	7.07	-82.36	6.27	-123.91	9.39	-143.68	10.94	-168.91	12.47	-224.78	21.20	-197.83	17.95
North	U108-L108	740	290.00 ft	12.05%	---	-373.71	-175.36	14.72	-173.32	7.18	-79.25	6.65	-119.35	9.96	-138.13	11.62	-158.69	13.34	-186.64	16.69	-161.57	12.29
North	U109-L109	741	290.00 ft	12.05%	---	-18.12	-166.06	87.16	-80.14	83.30	-76.22	37.90	-115.07	57.57	-132.44	67.00	-145.63	87.27	-129.32	107.41	-96.69	96.69
North	U110-L110	742	290.00 ft	12.05%	---	170.20	-226.07	338.55	-280.56	328.61	-97.01	145.73	-148.18	222.79	-172.67	259.39	-234.30	349.51	-305.86	412.92	-278.69	385.09
North	U111-L111	743	290.00 ft	12.05%	---	-507.05	-230.00	155.59	-334.08	143.03	-99.35	66.75	-151.04	102.07	-175.51	119.03	-236.98	161.73	-318.95	190.31	-287.15	178.43
North	U112-L112	744	290.00 ft	12.05%	---	-817.30	-247.42	120.99	-395.52	112.56	-106.34	51.90	-161.89	79.36	-187.92	92.56	-256.76	125.77	-349.80	148.03	-318.12	138.79
North	U113-L113	745	290.00 ft	12.05%	---	-1035.37	-248.49	74.63	-420.54	67.39	-106.38	32.00	-161.99	48.93	-188.37	57.08	-259.78	77.62	-349.27	91.38	-310.90	85.70
North	U114-L114	746	290.00 ft	12.05%	---	-1129.12	-232.26	24.67	-411.99	21.61	-99.31	10.52	-151.17	16.10	-175.90	18.79	-243.72	25.84	-328.82	31.57	-303.03	29.15
North	U115-L115	747	320.00 ft	11.24%	---	-1060.30	-199.37	19.45	-365.11	7.45	-85.09	8.93	-129.47	13.33	-150.91	15.22	-208.28	17.31	-291.44	19.50	-264.63	16.74
North	U116-L116	748	320.00 ft	11.24%	11.92%	-895.52	-195.40	46.68	-310.62	21.48	-83.80	20.80	-127.33	31.31	-148.25	36.05	-201.72	43.62	-279.61	42.55	-253.17	38.75
North	U117-L117	749	320.00 ft	11.24%	11.72%	-715.85	-175.73	65.07	-259.17	29.95	-75.70	28.79	-114.86	43.49	-133.55	50.21	-178.66	62.16	-246.22	55.54	-209.88	50.52
North	U118-L118	750	320.00 ft	11.24%	11.56%	-158.27	-161.89	4.28	-131.53	2.31	-91.36	2.37	-134.60	3.46	-148.89	3.85	-128.92	3.36	-161.60	4.21	-99.73	3.35
North	U119-L119	751	320.00 ft	11.24%	11.52%	169.44	-127.34	111.86	-87.51	86.03	-54.91	49.70	-83.63	74.79	-97.17	86.20	-128.26	108.18	-131.52	121.75	-112.15	103.35
North	U120-L120	752	320.00 ft	11.24%	11.72%	-96.71	-169.54	91.13	-179.49	74.06	-72.93	39.76	-111.11	60.34	-129.13	70.07	-172.67	89.96	-188.00	104.43	-181.70	96.23
North	U121-L121	753	320.00 ft	11.24%	12.32%	-389.02	-214.62	97.11	-274.58	84.92	-91.75	41.67	-139.96	63.66	-163.02	74.26	-221.36	101.10	-279.98	118.47	-259.06	111.20
North	U122-L122	754	320.00 ft	11.24%	13.43%	-649.83	-255.03	105.78	-354.77	91.52	-108.78	45.40	-166.04	69.36	-193.53	80.90	-265.13	110.09	-349.38	128.97	-313.85	121.00
North	U123-L123	755	320.00 ft	11.24%	15.13%	-827.88	-272.75	105.05	-398.08	89.78	-115.77	45.10	-176.93	68.90	-206.56	80.35	-286.14	109.30	-378.90	128.00	-335.40	120.07
North	U124-L124	756	320.00 ft	11.24%	17.57%	-963.41	-280.84	102.77	-423.87	85.90	-118.90	44.11	-181.79	67.44	-212.39	78.64	-297.30	106.77	-404.12	125.53	-371.36	117.67
North	U125-L125	757	320.00 ft	11.24%	20.91%	-973.23	-259.24	90.65	-402.63	73.18	-109.40	39.17	-167.35	59.48	-195.72	69.36	-276.29	94.19	-382.67	110.77	-353.97	103.84
North	U126-L126	758	320.00 ft	11.24%	10.99%	-958.08	-212.57	80.64	-359.03	62.57	-89.24	33.81	-136.57	51.12	-159.97	59.04	-229.67	78.11	-329.30	91.87	-308.48	83.04
South	U0-L1	759	140.00 ft	18.87%	---	533.09	-17.09	212.45	-10.30	228.60	-8.27	95.54	-12.03	142.72	-13.68	163.24	-14.46	205.38	-15.99	241.44	-12.73	211.75
South	U1-L2	760	140.00 ft	18.87%	---	509.80	-15.55	226.64	-8.80	229.57	-7.55	103.33	-11.00	153.67	-12.45	175.70	-12.98	213.16	-15.17	246.47	-12.31	215.20
South	U2-L3	761	140.00 ft	18.87%	---	397.94	-22.52	216.81	-9.92	199.71	-10.90	101.10	-15.97	149.26	-17.97	170.31	-16.86	194.09	-16.97	218.30	-15.07	194.41
South	U3-L4	762	140.00 ft	18.87%	---	182.23	-67.91	175.39	-29.73	127.73	-31.70	85.07	-47.02	124.03	-53.21	140.40	-53.38	143.46	-44.50	164.74	-35.79	142.64
South	U4-L5	763	140.00 ft	18.87%	---	-207.35	-173.30	92.61	-125.83	45.67	-78.53	48.54	-117.49	69.10	-134.22	74.68	-151.47	63.64	-169.20	57.58	-143.43	39.33
South	U6-L5	764	140.00 ft	18.87%	---	505.25	-32.39	244.37	-21.13	233.37	-18.55	108.94	-25.34	163.74	-25.97	188.01	-26.17	225.77	-26.11	264.10	-20.54	223.96
South	U7-L6	765	140.00 ft	18.87%	---	686.77	-18.40	277.47	-8.48	296.61	-8.50	122.25	-12.62	184.39	-14.28	212.51	-15.56	264.91	-23.31	316.96	-18.53	273.65

TranSystems

Made By SFH Date 3/30/2012
Checked By DWC Date 3/30/2012

Loading Per AASHTO 17th Standard Edition and ODOT Bridge Design Manual 2004 Ed
Impact Per AASHTO 3.8.2 Multiple Presence per AASHTO 3.12.1
* Based on C = 9.47% for Bend Point 1 (R = 1762.95'), C = 16.7% for Bend Point 2 (R = 1000')

Job No. P402110046
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
South	U8-L7	766	200.00 ft	15.38%	---	664.30	-15.99	228.93	-8.58	267.61	-7.08	100.06	-10.67	151.27	-12.28	174.79	-15.00	224.01	-22.47	270.57	-20.37	247.95
South	U9-L8	767	200.00 ft	15.38%	---	559.74	-14.44	190.66	-6.30	229.75	-6.66	87.01	-9.88	129.57	-11.18	147.12	-13.52	183.30	-22.41	235.64	-18.54	209.01
South	U10-L9	768	200.00 ft	15.38%	---	429.07	-12.45	167.50	-4.84	185.39	-5.71	77.45	-8.53	115.24	-9.72	130.75	-10.24	139.86	-19.06	198.41	-14.69	159.66
South	U10-L11	769	200.00 ft	15.38%	---	238.45	-87.81	214.83	-47.32	231.74	-38.32	94.92	-57.96	142.64	-67.26	163.83	-88.72	214.71	-101.48	258.76	-78.42	236.36
South	U11-L12	770	200.00 ft	15.38%	---	297.80	-81.83	250.71	-63.28	266.69	-36.41	111.50	-54.84	167.19	-63.63	191.98	-81.00	248.28	-91.37	294.87	-80.33	269.99
South	U12-L13	771	200.00 ft	15.38%	---	350.79	-102.49	263.43	-78.27	276.58	-45.60	117.86	-68.67	176.38	-79.68	202.32	-101.45	258.15	-112.37	295.36	-100.70	278.20
South	U13-L14	772	200.00 ft	15.38%	---	304.36	-118.13	250.57	-88.83	281.74	-52.55	113.15	-79.14	168.78	-91.83	192.88	-116.95	241.11	-130.08	299.31	-116.15	263.56
South	U14-L15	773	200.00 ft	15.38%	---	183.52	-134.72	171.25	-74.51	228.12	-60.86	78.44	-91.20	116.49	-104.54	132.08	-121.99	159.24	-132.48	210.28	-116.12	183.18
South	U16-L15	774	200.00 ft	15.38%	---	22.19	-120.27	199.10	-52.54	212.63	-52.70	88.61	-79.62	133.31	-92.13	153.16	-120.18	184.16	-139.94	223.25	-115.24	181.21
South	U17-L16	775	200.00 ft	15.38%	---	172.37	-136.35	278.07	-59.20	286.31	-59.49	122.92	-89.99	185.22	-104.26	213.33	-137.69	265.50	-157.78	315.84	-101.71	278.58
South	U18-L17	776	200.00 ft	15.38%	---	250.79	-112.95	273.12	-55.52	290.24	-49.43	119.78	-74.70	180.91	-86.53	208.81	-113.54	265.31	-129.11	309.59	-93.87	290.01
South	U19-L18	777	180.00 ft	16.39%	---	228.94	-91.36	249.44	-64.03	262.41	-40.42	109.49	-60.92	165.31	-70.65	190.74	-90.91	242.84	-102.66	293.87	-88.33	266.86
South	U20-L19	778	180.00 ft	16.39%	---	212.67	-92.70	213.89	-67.49	218.60	-41.26	93.88	-62.12	141.71	-72.08	163.55	-91.73	208.05	-101.08	250.33	-90.97	227.47
South	U20-L21	779	180.00 ft	16.39%	---	306.45	-10.44	145.63	-4.51	150.83	-5.11	71.23	-7.38	103.46	-8.55	119.15	-8.48	123.09	-13.25	161.89	-10.04	131.77
South	U21-L22	780	180.00 ft	16.39%	---	368.25	-10.95	158.08	-5.95	178.31	-5.46	77.24	-7.87	111.70	-9.05	128.81	-10.53	151.73	-17.18	184.62	-13.78	160.82
South	U22-L23	781	180.00 ft	16.39%	---	437.17	-13.76	201.28	-8.20	208.34	-6.25	91.33	-9.34	136.05	-10.64	155.04	-12.86	190.22	-20.27	225.01	-15.14	193.47
South	U23-L24	782	100.00 ft	22.22%	---	407.81	-20.25	237.32	-10.99	225.23	-9.38	110.51	-13.91	163.21	-15.73	186.50	-17.42	213.53	-19.86	245.68	-16.52	212.60
South	U24-L25	783	100.00 ft	22.22%	---	220.29	-52.61	178.12	-32.05	146.55	-28.42	86.12	-40.13	125.70	-42.68	142.63	-41.26	146.30	-35.31	183.40	-27.77	144.26
South	U26-L25	784	100.00 ft	22.22%	---	45.36	-84.09	136.50	-42.69	80.65	-44.28	66.59	-62.93	97.64	-68.38	108.84	-57.43	94.18	-76.02	132.73	-47.89	86.93
South	U27-L26	785	100.00 ft	22.22%	---	281.05	-22.50	216.01	-12.43	179.59	-11.36	100.33	-16.12	149.07	-17.66	168.84	-19.89	177.68	-23.50	215.43	-19.20	175.14
South	U28-L27	786	100.00 ft	22.22%	---	360.31	-19.84	222.00	-9.48	202.80	-8.95	100.32	-13.41	150.22	-15.37	171.69	-17.92	195.54	-23.81	229.55	-17.52	194.75
South	U29-L28	787	170.00 ft	16.95%	---	365.94	-15.88	175.74	-8.02	175.38	-7.01	77.94	-10.58	117.35	-12.21	134.96	-15.09	163.93	-21.38	195.65	-15.90	165.60
South	U30-L29	788	170.00 ft	16.95%	---	324.33	-12.31	146.20	-6.80	154.30	-5.77	68.68	-8.52	101.33	-9.60	113.80	-11.54	134.82	-16.75	165.42	-13.76	141.52
South	U30-L31	789	170.00 ft	16.95%	---	394.30	-72.56	201.22	-48.51	216.74	-32.29	89.02	-48.55	133.70	-55.85	153.49	-69.80	201.09	-79.48	242.59	-69.83	221.76
South	U31-L32	790	170.00 ft	16.95%	---	463.09	-67.21	241.56	-46.48	258.26	-30.00	107.39	-45.04	161.02	-51.87	185.12	-64.92	239.72	-74.21	284.56	-65.06	260.64
South	U32-L33	791	200.00 ft	15.38%	---	497.54	-67.14	259.61	-55.20	276.32	-30.00	116.20	-44.90	173.84	-52.22	199.90	-67.05	254.53	-77.82	293.53	-69.63	274.04
South	U33-L34	792	200.00 ft	15.38%	---	416.36	-77.09	245.25	-64.87	256.96	-34.37	110.78	-51.47	165.21	-59.84	189.10	-76.85	236.04	-90.66	283.27	-80.34	250.19
South	U34-L35	793	200.00 ft	15.38%	---	127.18	-113.87	158.95	-54.74	153.89	-51.49	72.99	-77.05	108.29	-88.37	122.60	-102.20	147.41	-103.80	176.98	-90.51	143.38
South	U36-L35	794	200.00 ft	15.38%	---	241.70	-82.34	209.56	-56.49	204.38	-36.77	93.36	-55.24	140.36	-63.38	161.16	-78.31	193.56	-90.45	225.93	-79.63	188.04
South	U37-L36	795	200.00 ft	15.38%	---	452.38	-83.50	258.01	-57.66	265.90	-36.98	113.95	-55.71	171.71	-64.10	197.86	-80.37	245.97	-93.22	291.85	-81.90	257.75
South	U38-L37	796	200.00 ft	15.38%	---	503.25	-75.22	270.28	-54.84	291.52	-33.37	118.58	-50.20	179.07	-57.83	206.67	-73.05	262.13	-84.36	309.20	-74.52	287.65
South	U39-L38	797	180.00 ft	16.39%	---	442.91	-65.95	232.89	-50.82	246.91	-29.40	102.18	-44.02	154.28	-51.18	178.04	-65.78	227.13	-75.30	274.98	-67.59	249.94
South	U40-L39	798	180.00 ft	16.39%	---	358.88	-73.75	197.75	-57.54	206.50	-32.91	87.03	-49.26	131.26	-57.30	151.33	-73.52	191.76	-84.00	230.66	-75.57	209.43
South	U40-L41	799	180.00 ft	16.39%	---	324.54	-9.60	127.33	-4.95	151.10	-4.76	63.49	-6.88	91.26	-7.91	105.26	-9.49	122.89	-14.85	150.85	-12.36	135.39
South	U41-L42	800	180.00 ft	16.39%	---	397.12	-12.24	158.92	-5.87	177.98	-5.19	70.69	-7.93	106.02	-9.26	121.49	-12.39	155.53	-18.56	187.44	-14.56	164.54
South	U42-L43	801	120.00 ft	20.41%	---	433.67	-14.70	206.92	-7.26	215.46	-6.84	94.26	-10.11	140.15	-11.60	160.00	-13.43	195.20	-19.29	231.72	-15.73	199.71
South	U43-L44	802	120.00 ft	20.41%	---	387.22	-16.94	218.33	-9.23	214.11	-7.97	101.83	-11.74	150.36	-13.46	172.04	-15.03	197.04	-21.05	229.09	-17.39	200.32
South	U44-L45	803	120.00 ft	20.41%	5.52%	153.30	-65.40	142.29	-34.98	116.98	-32.20	68.87	-47.08	100.64	-52.37	113.33	-45.67	115.01	-45.88	138.98	-31.50	117.34
South	U46-L45	804	120.00 ft	20.41%	5.54%	153.91	-53.48	157.55	-28.48	119.58	-28.37	73.21	-40.50	108.82	-43.33	123.25	-34.82	125.93	-41.58	156.55	-33.18	121.13
South	U47-L46	805	120.00 ft	20.41%	6.23%	387.78	-16.89	222.38	-9.55	213.95	-7.69	100.90	-11.50	150.97	-13.11	172.29	-14.89	195.65	-20.01	228.83	-14.50	193.94
South	U48-L47	806	120.00 ft	20.41%	7.21%	424.39	-13.42	205.91	-6.25	214.75	-5.98	91.97	-9.00	138.24	-10.34	158.61	-12.19	189.60	-16.83	225.30	-12.45	191.96
South	U49-L48	807	210.00 ft	14.93%	6.29%	382.44	-10.52	150.71	-5.99	170.29	-4.48	66.44	-6.83	100.74	-8.00	116.77	-10.52	144.95	-15.46	174.62	-12.04	151.98
South	U50-L49	808	210.00 ft	14.93%	5.76%	342.77	-8.83	127.04	-5.30	149.94	-4.34	59.16	-6.33	88.50	-7.24	100.82	-7.94	120.50	-13.85	136.70	-10.94	129.61
South	U50-L51	809	210.00 ft	14.93%	9.40%	430.51	-60.30	162.92	-53.10	204.62	-26.39	70.88	-40.23	107.80	-46.58	124.64	-59.45	162.91	-69.45	203.16	-61.91	184.31
South	U51-L52	810	210.00 ft	14.93%	10.85%	483.88	-57.29	187.66	-51.49	236.96	-25.05	81.73	-38.20	124.20	-44.25	143.85	-56.84	186.98	-66.12	220.79	-59.14	206.46
South	U52-L53	811	260.00 ft	12.99%	8.53%	524.50	-58.78	205.08	-49.65	257.00	-25.58	89.39	-39.03	135.75	-45.32	157.30	-59.12	203.64	-66.33	240.97	-60.22	219.66
South	U53-L54	812	260.00 ft	12.99%	7.01%	478.27	-71.04	205.91	-59.85	249.42	-30.88	90.08	-47.14	136.67	-54.72	158.17	-71.42	202.69	-81.50	242.14	-72.99	223.25
South	U54-L55	813	260.00 ft	12.99%	6.06%	370.91	-83.00	198.92	-69.86	235.40	-36.06	87.50	-55.04	132.59	-63.93	153.03	-83.41	192.76	-96.28	225.59	-85.44	209.77
South	U55-L56	814	260.00 ft	12.99%	5.59%	65.73	-99.05	135.69	-58.46	137.84	-43.73	60.04	-66.13	90.79	-76.31	104.58	-94.29	128.49	-103.83	146.01	-81.80	125.98
South	U57-L56	815	260.00 ft	12.99%	5.59%	245.59	-68.87	152.97	-51.85	176.08	-30.74	67.43	-46.12	101.80	-53.14	117.55	-63.25	146.69	-73.16	178.49	-63.36	141.17
South	U58-L57	816	260.00 ft	12.99%	6.06%	494.16	-63.60	207.93	-55.92	246.05	-27.78	91.17	-42.37	137.97	-49.10	159.60	-62.67	203.48	-75.66	240.96	-67.25	216.73

TranSystems

Made By SFH Date 3/30/2012
Checked By DWC Date 3/30/2012

Loading Per AASHTO 17th Standard Edition and ODOT Bridge Design Manual 2004 Ed
Impact Per AASHTO 3.8.2 Multiple Presence per AASHTO 3.12.1
* Based on C = 9.47% for Bend Point 1 (R = 1762.95'), C = 16.7% for Bend Point 2 (R = 1000')

Job No. P402110046
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
South	U59-L58	817	260.00 ft	12.99%	7.01%	550.71	-55.42	208.15	-50.06	256.81	-24.16	91.21	-36.86	138.09	-42.71	159.80	-54.92	204.70	-65.72	246.64	-58.48	217.02
South	U60-L59	818	260.00 ft	12.99%	8.53%	536.57	-57.96	200.72	-48.14	254.95	-25.19	87.67	-38.44	132.89	-44.64	153.84	-58.26	199.16	-67.28	236.17	-60.30	218.83
South	U61-L60	819	220.00 ft	14.49%	10.89%	450.29	-72.22	183.02	-60.71	230.44	-31.40	80.26	-47.91	121.57	-55.63	140.69	-72.58	180.35	-82.58	220.83	-74.31	200.83
South	U62-L61	820	220.00 ft	14.49%	12.31%	334.14	-86.68	162.89	-74.58	193.91	-37.69	71.90	-57.51	108.72	-66.77	125.64	-87.12	158.24	-98.98	192.25	-89.18	173.97
South	U62-L63	821	220.00 ft	14.49%	---	312.08	-7.01	133.29	-3.50	136.32	-3.21	61.48	-4.85	93.20	-5.58	106.57	-5.61	109.40	-6.63	144.39	-3.95	101.89
South	U63-L64	822	220.00 ft	14.49%	---	380.35	-10.42	143.73	-5.44	166.76	-4.65	65.26	-7.08	98.90	-8.14	113.35	-9.90	136.02	-14.78	168.41	-11.91	147.68
South	U64-L65	823	220.00 ft	14.49%	---	429.58	-12.78	171.37	-6.35	190.83	-5.49	74.56	-8.34	112.78	-9.74	131.38	-13.14	165.85	-20.56	201.86	-16.22	175.93
South	U65-L66	824	120.00 ft	20.41%	---	430.80	-16.47	214.41	-8.61	218.83	-7.27	94.53	-10.92	143.00	-12.80	165.73	-15.10	198.80	-23.70	239.67	-18.91	206.03
South	U66-L67	825	120.00 ft	20.41%	---	353.01	-20.46	208.94	-11.18	195.76	-9.57	93.32	-14.18	141.47	-16.12	163.14	-17.88	184.61	-21.36	218.02	-18.36	187.07
South	U67-L68	826	120.00 ft	20.41%	---	120.32	-73.99	140.71	-38.06	100.62	-36.28	64.51	-53.34	97.20	-59.77	111.36	-51.32	111.17	-56.42	145.58	-35.24	113.85
South	U69-L68	827	120.00 ft	20.41%	---	140.53	-64.74	148.60	-32.43	110.50	-31.55	68.94	-46.61	102.73	-52.69	118.17	-41.06	122.54	-63.38	147.75	-44.30	116.40
South	U70-L69	828	120.00 ft	20.41%	---	362.21	-19.54	214.01	-11.78	196.77	-8.90	96.85	-13.48	145.37	-15.60	168.39	-18.22	192.87	-24.80	224.47	-18.59	189.61
South	U71-L70	829	120.00 ft	20.41%	---	433.80	-19.37	218.14	-9.89	218.45	-8.70	96.96	-13.11	146.12	-15.26	169.19	-18.22	205.06	-26.02	243.91	-19.95	205.96
South	U72-L71	830	250.00 ft	13.33%	---	434.22	-15.74	174.45	-7.87	189.59	-6.92	76.55	-10.45	115.78	-12.13	133.82	-15.31	169.08	-22.33	204.37	-17.69	179.12
South	U73-L72	831	250.00 ft	13.33%	---	390.47	-13.30	146.79	-7.27	168.91	-6.04	67.69	-9.22	102.10	-10.63	117.16	-12.93	141.83	-17.78	172.16	-15.26	155.76
South	U74-L73	832	250.00 ft	13.33%	---	306.31	-9.41	130.34	-4.55	133.90	-4.36	61.04	-6.68	92.00	-7.67	105.44	-7.49	107.50	-13.45	146.26	-9.67	115.87
South	U74-L75	833	250.00 ft	13.33%	---	481.51	-117.03	200.18	-96.44	303.76	-50.78	85.57	-77.60	129.92	-90.27	152.11	-118.68	206.84	-136.86	287.48	-124.82	262.95
South	U75-L76	834	250.00 ft	13.33%	---	605.15	-112.32	240.09	-96.60	358.95	-48.61	102.68	-74.27	155.99	-86.45	182.45	-114.55	247.61	-132.63	335.30	-121.34	310.57
South	U76-L77	835	320.00 ft	11.24%	---	676.02	-107.96	263.84	-100.36	394.80	-46.46	112.76	-70.96	171.47	-82.67	200.46	-111.51	271.76	-129.40	359.99	-121.29	338.10
South	U77-L78	836	320.00 ft	11.24%	---	679.53	-123.45	279.98	-118.84	412.89	-52.97	119.84	-80.87	182.22	-94.39	212.87	-128.17	286.97	-149.49	386.64	-140.30	352.72
South	U78-L79	837	320.00 ft	11.24%	---	565.55	-130.85	263.16	-126.44	373.08	-56.14	112.71	-85.72	171.19	-100.05	200.19	-135.88	268.89	-158.63	352.51	-148.97	326.10
South	U79-L80	838	320.00 ft	11.24%	---	336.30	-128.18	229.17	-124.29	311.87	-54.99	98.52	-83.97	149.28	-98.00	174.66	-133.12	232.31	-155.57	305.25	-146.15	277.63
South	U80-L81	839	320.00 ft	11.24%	---	43.40	-114.43	178.55	-110.41	221.67	-49.38	77.05	-75.18	116.67	-87.50	136.41	-117.82	179.36	-137.85	225.25	-129.56	204.06
South	U81-L82	840	320.00 ft	11.24%	---	-237.88	-132.70	141.72	-120.96	140.45	-57.43	61.40	-87.36	92.86	-101.43	108.46	-132.67	140.74	-161.94	154.10	-155.51	142.38
South	U83-L82	841	320.00 ft	11.24%	---	522.72	-88.75	167.61	-53.71	254.26	-38.71	72.66	-58.58	110.34	-68.17	127.88	-87.21	167.62	-93.77	241.05	-84.66	195.00
South	U84-L83	842	320.00 ft	11.24%	---	740.76	-66.43	203.07	-54.76	302.18	-28.89	87.55	-44.15	133.09	-51.30	154.55	-67.00	205.44	-80.96	291.83	-70.85	242.97
South	U85-L84	843	320.00 ft	11.24%	---	864.57	-72.09	235.85	-60.15	341.61	-31.32	101.52	-47.84	154.36	-55.62	179.33	-72.98	240.09	-86.30	320.17	-78.10	294.33
South	U86-L85	844	320.00 ft	11.24%	---	860.10	-86.89	260.66	-74.94	377.54	-37.53	112.02	-57.29	170.36	-66.68	198.00	-88.94	267.27	-105.65	356.04	-96.48	328.69
South	U87-L86	845	300.00 ft	11.76%	---	706.09	-118.86	270.15	-107.03	402.46	-50.98	116.18	-77.94	176.64	-90.89	205.24	-123.50	277.46	-144.58	376.66	-135.47	346.38
South	U88-L87	846	300.00 ft	11.76%	---	465.21	-161.30	256.87	-149.75	380.84	-69.18	110.54	-105.77	168.03	-123.34	195.35	-167.59	263.67	-196.26	353.11	-183.91	329.25
South	U89-L88	847	300.00 ft	11.76%	---	253.64	-177.74	232.82	-166.81	331.71	-76.23	100.58	-116.55	152.70	-135.92	177.57	-184.67	237.72	-216.30	320.32	-202.72	292.32
South	U90-L89	848	300.00 ft	11.76%	---	-66.00	-205.69	205.18	-192.65	278.17	-88.22	88.87	-134.88	134.84	-157.29	156.87	-213.72	208.11	-250.29	281.08	-234.58	255.81
South	U90-L91	849	300.00 ft	11.76%	---	-406.83	-156.41	119.85	-169.42	55.58	-67.38	56.12	-102.90	85.07	-119.75	96.89	-159.29	93.87	-191.51	82.23	-175.55	64.27
South	U91-L92	850	300.00 ft	11.76%	---	21.82	-71.11	139.57	-65.62	62.10	-30.76	64.43	-46.76	97.65	-54.40	111.76	-70.47	114.91	-85.66	102.84	-77.58	82.26
South	U92-L93	851	300.00 ft	11.76%	---	280.50	-12.46	153.24	-5.26	134.70	-5.64	70.20	-8.55	106.35	-9.86	122.05	-10.40	127.71	-14.18	153.61	-12.33	129.31
South	U93-L94	852	300.00 ft	11.76%	---	503.06	-15.33	174.74	-8.20	204.80	-6.97	79.69	-10.63	120.74	-12.17	138.72	-12.85	147.95	-21.15	197.14	-19.62	172.57
South	U94-L95	853	300.00 ft	11.76%	---	804.37	-19.72	224.71	-11.95	301.75	-8.67	98.46	-13.06	148.98	-15.25	172.69	-19.85	224.42	-36.39	298.29	-29.07	257.20
South	U95-L96	854	300.00 ft	11.76%	---	899.80	-23.10	265.22	-13.59	338.63	-10.04	114.38	-15.18	172.94	-17.75	202.41	-23.58	266.17	-41.82	340.72	-33.49	307.13
South	U96-L97	855	160.00 ft	17.54%	---	784.59	-24.35	275.89	-13.81	327.63	-10.64	119.61	-16.01	180.89	-18.78	211.08	-24.34	271.83	-38.83	336.16	-33.20	303.33
South	U97-L98	856	160.00 ft	17.54%	---	606.18	-29.47	245.77	-18.22	265.44	-15.21	107.30	-21.60	161.98	-24.34	188.69	-26.99	236.90	-34.74	287.27	-27.96	248.73
South	U98-L99	857	160.00 ft	17.54%	---	394.40	-58.17	205.18	-30.46	189.51	-28.69	90.36	-42.15	135.99	-46.95	158.23	-41.01	191.58	-48.40	229.36	-32.78	185.39
South	U99-L100	858	160.00 ft	17.54%	---	156.77	-101.94	163.98	-45.92	112.03	-47.25	73.32	-70.54	109.83	-80.12	127.42	-80.83	145.47	-74.56	169.54	-56.03	118.96
South	U101-L100	859	160.00 ft	17.54%	---	92.73	-118.78	146.67	-51.71	84.44	-54.32	66.15	-80.67	99.36	-93.40	113.78	-95.92	129.71	-87.13	141.54	-70.58	99.63
South	U102-L101	860	160.00 ft	17.54%	---	358.48	-69.92	196.59	-34.36	170.59	-33.66	87.12	-48.98	131.49	-56.48	151.42	-48.32	183.52	-46.16	213.85	-31.31	169.31
South	U103-L102	861	160.00 ft	17.54%	---	590.98	-33.81	240.40	-21.02	251.17	-17.37	105.46	-25.36	159.57	-27.44	184.31	-31.37	231.97	-31.64	277.76	-23.89	238.65
South	U104-L103	862	160.00 ft	17.54%	---	794.47	-21.91	275.50	-11.54	322.34	-9.58	119.91	-14.44	181.81	-16.74	210.54	-21.62	271.81	-31.58	332.26	-27.39	301.54
South	U105-L104	863	290.00 ft	12.05%	---	936.15	-18.26	270.96	-10.68	342.82	-8.04	117.14	-12.06	178.03	-13.97	206.57	-18.42	271.70	-34.71	346.26	-26.49	311.62
South	U106-L105	864	290.00 ft	12.05%	---	797.08	-15.52	220.23	-9.40	295.82	-7.04	98.23	-10.71	147.52	-12.38	170.98	-15.94	220.44	-31.43	293.83	-24.15	250.95
South	U107-L106	865	290.00 ft	12.05%	---	544.24	-12.73	177.99	-6.09	212.86	-5.86	82.19	-8.99	123.69	-10.33	142.51	-10.82	154.71	-20.56	198.15	-16.50	175.54
South	U108-L107	866	290.00 ft	12.05%	---	283.59	-11.79	155.29	-5.41	136.25	-5.42	72.31	-8.33	109.03	-9.57	125.14	-9.92	131.21	-11.96	155.73	-10.68	131.90
South	U109-L108	867	290.00 ft	12.05%	---	-160.54	-106.65	128.72	-103.98	60.57	-46.24	61.09	-70.14	92.27	-81.70	105.20	-107.56	101.53	-136.54	90.41	-123.19	70.69

TranSystems

Made By SFH Date 3/30/2012
Checked By DWC Date 3/30/2012

Loading Per AASHTO 17th Standard Edition and ODOT Bridge Design Manual 2004 Ed
Impact Per AASHTO 3.8.2 Multiple Presence per AASHTO 3.12.1
* Based on C = 9.47% for Bend Point 1 (R = 1762.95'), C = 16.7% for Bend Point 2 (R = 1000')

Job No. P402110046
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
South	U110-L109	868	290.00 ft	12.05%	---	-400.69	-156.99	121.03	-175.21	58.21	-67.95	57.29	-103.58	86.54	-120.64	98.74	-160.68	95.93	-201.15	87.41	-182.78	68.68
South	U110-L111	869	290.00 ft	12.05%	---	194.63	-197.61	206.37	-185.45	297.38	-84.84	89.38	-129.59	135.94	-151.17	157.86	-205.53	210.53	-240.64	290.77	-225.70	268.86
South	U111-L112	870	290.00 ft	12.05%	---	451.32	-174.06	224.90	-163.68	336.07	-74.73	96.93	-114.15	147.61	-133.15	171.61	-181.03	230.46	-211.97	310.48	-198.81	291.54
South	U112-L113	871	290.00 ft	12.05%	---	679.29	-141.34	237.28	-131.60	357.52	-60.68	102.00	-92.69	155.57	-108.12	180.84	-147.04	243.76	-172.18	324.41	-161.51	310.05
South	U113-L114	872	290.00 ft	12.05%	---	885.75	-90.46	234.20	-81.70	345.94	-38.81	100.61	-59.31	153.63	-69.18	178.48	-94.16	239.71	-110.32	327.35	-103.55	302.17
South	U114-L115	873	290.00 ft	12.05%	---	974.72	-30.26	212.12	-25.91	311.27	-12.88	91.19	-19.69	139.26	-23.02	161.71	-31.82	215.66	-45.82	284.58	-41.79	257.90
South	U115-L116	874	320.00 ft	11.24%	---	910.92	-40.97	182.17	-20.04	284.30	-17.83	78.26	-27.04	119.40	-31.32	138.61	-40.12	184.86	-44.08	258.08	-38.13	238.08
South	U116-L117	875	320.00 ft	11.24%	11.34%	764.34	-64.36	139.51	-38.70	247.10	-28.06	59.85	-42.46	91.17	-49.14	106.12	-62.88	141.04	-61.96	212.32	-53.55	172.63
South	U117-L118	876	320.00 ft	11.24%	11.14%	595.85	-77.54	127.34	-48.47	209.83	-33.78	54.87	-51.17	83.56	-59.16	97.19	-76.16	127.81	-68.83	177.85	-57.79	141.47
South	U119-L118	877	320.00 ft	11.24%	11.04%	-386.41	-112.20	97.19	-147.22	58.61	-48.42	42.35	-73.73	64.05	-85.75	74.36	-111.88	96.78	-131.94	79.98	-127.48	79.45
South	U120-L119	878	320.00 ft	11.24%	11.12%	-120.32	-95.92	126.64	-96.09	137.60	-41.59	55.03	-63.52	83.34	-73.52	96.88	-96.28	127.30	-110.06	140.83	-101.52	129.28
South	U121-L120	879	320.00 ft	11.24%	11.51%	176.57	-98.58	159.61	-106.27	222.65	-42.27	69.18	-64.63	105.07	-75.39	122.04	-102.52	162.05	-120.71	180.81	-113.22	184.76
South	U122-L121	880	320.00 ft	11.24%	12.34%	462.09	-102.20	188.83	-109.94	289.76	-43.83	81.37	-67.02	123.91	-78.17	143.93	-106.28	192.54	-125.08	250.89	-117.30	229.69
South	U123-L122	881	320.00 ft	11.24%	13.74%	669.53	-96.73	205.50	-103.85	323.74	-41.49	88.77	-63.44	135.02	-73.99	156.67	-100.58	209.22	-118.31	278.00	-110.95	254.23
South	U124-L123	882	320.00 ft	11.24%	15.81%	795.14	-85.20	207.12	-91.29	328.19	-36.57	89.53	-55.89	136.14	-65.17	157.94	-88.57	210.64	-104.15	272.23	-97.65	260.53
South	U125-L124	883	320.00 ft	11.24%	18.69%	838.39	-71.43	199.69	-75.87	311.22	-30.68	86.57	-46.86	131.46	-54.65	152.44	-74.26	202.16	-86.93	272.00	-81.51	251.58
South	U126-L125	884	320.00 ft	11.24%	15.66%	847.13	-57.91	184.64	-61.12	287.53	-24.87	80.19	-37.99	121.78	-44.30	141.05	-60.22	186.07	-70.51	259.31	-66.12	234.21
North	U0-L1	885	140.00 ft	18.87%	---	533.97	-17.12	212.41	-14.44	229.59	-8.28	95.52	-12.05	142.70	-13.70	163.21	-14.49	205.34	-16.03	241.38	-12.77	211.68
North	U1-L2	886	140.00 ft	18.87%	---	510.82	-15.57	226.61	-12.03	231.35	-7.56	103.32	-11.01	153.66	-12.46	175.68	-13.00	213.14	-15.20	246.43	-12.34	215.15
North	U2-L3	887	140.00 ft	18.87%	---	399.12	-22.54	216.80	-12.09	200.63	-10.90	101.09	-15.98	149.25	-17.98	170.30	-16.87	194.09	-16.99	218.29	-15.08	194.40
North	U3-L4	888	140.00 ft	18.87%	---	183.16	-67.91	175.38	-30.60	129.39	-31.70	85.06	-47.03	124.02	-53.22	140.39	-53.39	143.45	-44.51	164.73	-35.80	142.63
North	U4-L5	889	140.00 ft	18.87%	---	-207.66	-173.30	92.56	-126.55	45.70	-78.53	48.50	-117.49	69.05	-134.22	74.62	-151.46	63.59	-169.20	57.56	-143.40	39.32
North	U6-L5	890	140.00 ft	18.87%	---	506.71	-32.43	244.32	-23.00	234.94	-18.55	108.91	-25.37	163.69	-26.00	187.97	-26.21	225.72	-26.16	264.03	-20.59	223.88
North	U7-L6	891	140.00 ft	18.87%	---	688.58	-18.41	277.46	-11.79	298.76	-8.51	122.24	-12.63	184.38	-14.29	212.50	-15.58	264.90	-23.35	316.93	-18.56	273.62
North	U8-L7	892	200.00 ft	15.38%	---	665.84	-16.00	228.93	-10.53	268.98	-7.08	100.07	-10.67	151.27	-12.29	174.79	-15.01	224.01	-22.51	270.57	-20.41	247.93
North	U9-L8	893	200.00 ft	15.38%	---	561.01	-14.45	190.66	-7.49	230.67	-6.66	87.01	-9.89	129.57	-11.19	147.12	-13.53	183.30	-22.44	235.62	-18.57	208.99
North	U10-L9	894	200.00 ft	15.38%	---	430.45	-12.43	167.52	-6.43	189.48	-5.70	77.46	-8.51	115.26	-9.70	130.77	-10.21	139.87	-19.00	198.47	-14.63	159.71
North	U10-L11	895	200.00 ft	15.38%	---	241.30	-87.90	215.08	-48.31	260.37	-38.36	95.02	-58.02	142.81	-67.33	164.03	-88.80	214.99	-101.58	259.16	-78.50	236.74
North	U11-L12	896	200.00 ft	15.38%	---	300.33	-81.92	250.89	-63.59	294.51	-36.46	111.57	-54.90	167.30	-63.69	192.12	-81.07	248.49	-91.45	295.20	-80.39	270.28
North	U12-L13	897	200.00 ft	15.38%	---	353.49	-102.57	263.62	-78.43	300.56	-45.64	117.93	-68.73	176.49	-79.75	202.46	-101.53	258.36	-112.42	295.68	-100.72	278.49
North	U13-L14	898	200.00 ft	15.38%	---	307.01	-118.22	250.73	-89.24	297.64	-52.60	113.20	-79.20	168.87	-91.90	192.98	-117.03	241.30	-130.12	299.57	-116.15	263.81
North	U14-L15	899	200.00 ft	15.38%	---	184.60	-134.64	171.37	-74.45	229.98	-60.81	78.49	-91.13	116.57	-104.47	132.18	-121.92	159.37	-132.36	210.44	-115.97	183.32
North	U16-L15	900	200.00 ft	15.38%	---	22.69	-120.28	199.15	-53.76	227.09	-52.71	88.63	-79.63	133.34	-92.13	153.20	-120.19	184.21	-139.92	223.31	-115.21	181.30
North	U17-L16	901	200.00 ft	15.38%	---	174.50	-136.46	278.33	-60.48	314.73	-59.54	123.02	-90.06	185.38	-104.34	213.52	-137.79	265.78	-157.90	316.24	-101.80	278.95
North	U18-L17	902	200.00 ft	15.38%	---	253.12	-113.07	273.41	-56.54	316.68	-49.49	119.90	-74.78	181.09	-86.62	209.02	-113.64	265.62	-129.25	310.04	-94.04	290.41
North	U19-L18	903	180.00 ft	16.39%	---	231.45	-91.49	249.79	-64.23	281.00	-40.49	109.64	-61.01	165.54	-70.76	191.00	-91.03	243.21	-102.84	294.41	-88.49	267.35
North	U20-L19	904	180.00 ft	16.39%	---	215.39	-92.87	214.35	-67.67	231.37	-41.34	94.08	-62.23	142.01	-72.22	163.91	-91.87	208.55	-101.28	251.03	-91.15	228.10
North	U20-L21	905	180.00 ft	16.39%	---	307.73	-10.39	145.68	-6.49	154.00	-5.09	71.25	-7.36	103.48	-8.52	119.19	-8.44	123.12	-13.17	161.97	-9.95	131.84
North	U21-L22	906	180.00 ft	16.39%	---	369.19	-11.00	158.03	-7.48	179.23	-5.49	77.21	-7.92	111.65	-9.10	128.75	-10.57	151.69	-17.24	184.56	-13.83	160.76
North	U22-L23	907	180.00 ft	16.39%	---	437.85	-13.75	201.31	-9.88	210.39	-6.24	91.35	-9.32	136.08	-10.62	155.07	-12.87	190.23	-20.29	225.00	-15.14	193.42
North	U23-L24	908	100.00 ft	22.22%	---	408.63	-20.24	237.29	-14.48	227.94	-9.38	110.49	-13.91	163.19	-15.73	186.47	-17.40	213.50	-19.94	245.58	-16.49	212.63
North	U24-L25	909	100.00 ft	22.22%	---	220.54	-52.63	178.08	-33.69	148.21	-28.42	86.11	-40.15	125.67	-42.69	142.60	-41.27	146.25	-35.21	183.27	-27.69	144.15
North	U26-L25	910	100.00 ft	22.22%	---	45.72	-84.04	136.52	-43.15	81.59	-44.26	66.60	-62.90	97.65	-68.35	108.85	-57.37	94.19	-75.98	132.73	-47.78	87.02
North	U27-L26	911	100.00 ft	22.22%	---	281.89	-22.48	216.02	-15.06	181.78	-11.34	100.34	-16.10	149.08	-17.65	168.85	-19.88	177.69	-23.50	215.43	-19.15	175.14
North	U28-L27	912	100.00 ft	22.22%	---	361.23	-19.84	222.01	-11.63	205.08	-8.95	100.32	-13.40	150.22	-15.37	171.70	-17.91	195.55	-23.81	229.55	-17.53	194.75
North	U29-L28	913	170.00 ft	16.95%	---	366.49	-15.90	175.74	-8.64	175.73	-7.02	77.94	-10.59	117.34	-12.23	134.96	-15.10	163.92	-21.40	195.65	-15.91	165.60
North	U30-L29	914	170.00 ft	16.95%	---	324.82	-12.20	146.21	-7.89	155.99	-5.70	68.69	-8.43	101.34	-9.51	113.81	-11.46	134.83	-16.60	165.47	-13.61	141.60
North	U30-L31	915	170.00 ft	16.95%	---	405.70	-72.62	202.43	-50.63	246.55	-32.32	89.52	-48.60	134.47	-55.88	154.40	-69.76	202.45	-79.45	244.75	-69.84	223.67
North	U31-L32	916	170.00 ft	16.95%	---	476.92	-67.39	242.78	-47.32	288.39	-30.07	107.86	-45.15	161.77	-51.99	185.98	-64.99	241.18	-74.22	286.87	-65.04	262.74
North	U32-L33	917	200.00 ft	15.38%	---	517.03	-68.14	261.73	-53.80	304.48	-30.42	117.04	-45.56	175.14	-52.95	201.43	-68.07	257.05	-78.27	297.16	-69.86	277.41
North	U33-L34	918	200.00 ft	15.38%	---	441.07	-78.90	248.52	-61.76	276.62	-35.14	112.08	-52.64	167.24	-61.17	191.47	-78.78	239.77	-91.46	287.95	-80.61	254.73

TranSystems

Made By SFH Date 3/30/2012
Checked By DWC Date 3/30/2012

Loading Per AASHTO 17th Standard Edition and ODOT Bridge Design Manual 2004 Ed
Impact Per AASHTO 3.8.2 Multiple Presence per AASHTO 3.12.1
* Based on C = 9.47% for Bend Point 1 (R = 1762.95'), C = 16.7% for Bend Point 2 (R = 1000')

Job No. P402110046
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
North	U34-L35	919	200.00 ft	15.38%	---	150.71	-113.22	162.51	-52.77	160.23	-51.19	74.46	-76.58	110.56	-87.86	125.29	-101.80	151.31	-103.14	181.69	-90.35	147.91
North	U36-L35	920	200.00 ft	15.38%	---	228.97	-81.84	207.20	-58.50	225.96	-36.54	92.33	-54.90	138.79	-62.99	159.35	-78.11	191.33	-90.80	224.56	-79.71	186.06
North	U37-L36	921	200.00 ft	15.38%	---	449.61	-82.60	257.02	-59.48	293.67	-36.60	113.55	-55.12	171.09	-63.42	197.12	-79.40	244.90	-93.50	291.22	-81.88	257.00
North	U38-L37	922	200.00 ft	15.38%	---	513.26	-74.70	271.26	-56.27	315.28	-33.16	119.00	-49.87	179.71	-57.44	207.41	-72.38	263.11	-84.41	310.89	-74.35	288.99
North	U39-L38	923	180.00 ft	16.39%	---	455.72	-65.50	234.67	-52.10	264.20	-29.24	102.95	-43.77	155.45	-50.86	179.40	-65.21	229.00	-75.32	277.73	-67.57	252.34
North	U40-L39	924	180.00 ft	16.39%	---	374.05	-73.50	200.27	-58.63	216.23	-32.84	88.11	-49.14	132.90	-57.12	153.24	-73.15	194.44	-84.15	234.38	-75.51	212.77
North	U40-L41	925	180.00 ft	16.39%	---	325.93	-9.71	127.65	-6.67	152.56	-4.82	63.60	-6.97	91.41	-8.00	105.47	-9.59	123.51	-15.36	151.20	-12.94	136.30
North	U41-L42	926	180.00 ft	16.39%	---	401.36	-12.33	159.79	-7.53	180.40	-5.24	70.95	-7.99	106.48	-9.34	122.10	-12.58	156.74	-19.75	188.26	-15.70	165.55
North	U42-L43	927	120.00 ft	20.41%	---	439.32	-15.06	209.09	-10.93	223.69	-6.94	95.16	-10.28	141.65	-11.79	161.65	-14.06	196.88	-21.86	234.28	-17.35	202.80
North	U43-L44	928	120.00 ft	20.41%	---	390.22	-17.83	221.65	-14.09	219.91	-8.18	103.32	-12.15	152.59	-13.89	174.70	-16.31	200.59	-23.49	233.91	-20.47	202.24
North	U44-L45	929	120.00 ft	20.41%	5.52%	147.73	-67.86	158.66	-37.19	121.75	-33.41	76.79	-48.88	112.13	-54.30	126.65	-47.03	130.53	-47.39	153.81	-34.64	131.32
North	U46-L45	930	120.00 ft	20.41%	5.54%	167.03	-62.22	166.85	-30.21	119.21	-32.51	77.41	-46.48	115.16	-50.01	130.52	-42.23	133.23	-46.41	166.77	-42.38	128.21
North	U47-L46	931	120.00 ft	20.41%	6.23%	404.45	-21.74	239.96	-11.86	211.20	-10.06	108.40	-14.95	162.47	-16.96	185.74	-18.96	211.46	-25.72	247.01	-17.43	210.07
North	U48-L47	932	120.00 ft	20.41%	7.21%	449.86	-20.69	225.39	-10.89	217.79	-9.52	99.91	-14.17	150.58	-16.09	173.24	-17.99	209.87	-24.89	248.87	-17.92	214.84
North	U49-L48	933	210.00 ft	14.93%	6.29%	418.40	-17.31	164.16	-7.89	174.03	-7.79	71.67	-11.73	108.42	-13.60	125.36	-16.09	159.83	-23.33	192.97	-17.49	168.47
North	U50-L49	934	210.00 ft	14.93%	5.76%	334.31	-10.85	131.33	-5.99	143.94	-5.38	62.57	-7.86	93.76	-8.81	106.13	-9.58	120.42	-13.21	151.10	-11.95	134.23
North	U50-L51	935	210.00 ft	14.93%	9.40%	609.99	-86.19	232.43	-69.09	311.28	-37.64	100.11	-57.10	152.05	-66.38	176.81	-86.04	239.49	-99.89	303.29	-89.42	282.08
North	U51-L52	936	210.00 ft	14.93%	10.85%	705.23	-89.82	284.38	-68.89	360.52	-39.26	122.99	-59.58	186.75	-69.26	216.95	-89.82	290.55	-103.73	348.47	-93.17	332.23
North	U52-L53	937	260.00 ft	12.99%	8.53%	778.71	-92.78	310.98	-67.24	391.77	-40.37	134.84	-61.61	204.60	-71.50	237.50	-93.14	315.25	-105.10	379.63	-95.36	352.63
North	U53-L54	938	260.00 ft	12.99%	7.01%	745.68	-105.16	313.72	-77.27	378.50	-45.74	136.72	-69.79	207.22	-81.02	240.14	-105.58	313.74	-120.57	383.47	-108.19	348.06
North	U54-L55	939	260.00 ft	12.99%	6.06%	616.97	-117.43	302.54	-87.16	346.75	-51.07	132.70	-77.92	200.72	-90.47	232.36	-117.92	298.21	-135.82	350.08	-120.91	327.86
North	U55-L56	940	260.00 ft	12.99%	5.59%	164.61	-122.30	195.36	-66.55	178.35	-54.06	86.54	-81.76	130.62	-94.26	150.56	-115.74	187.51	-121.86	215.48	-102.98	187.67
North	U57-L56	941	260.00 ft	12.99%	5.59%	321.40	-85.48	204.68	-53.34	213.15	-38.12	90.15	-57.40	136.38	-65.94	157.89	-78.76	196.43	-90.83	229.69	-79.51	191.91
North	U58-L57	942	260.00 ft	12.99%	6.06%	728.54	-82.93	307.52	-70.75	368.32	-36.16	134.00	-54.83	203.54	-63.77	236.07	-82.86	303.54	-99.56	361.47	-88.71	333.42
North	U59-L58	943	260.00 ft	12.99%	7.01%	817.02	-80.67	314.83	-66.40	390.07	-35.21	136.44	-53.43	207.52	-62.15	241.03	-80.76	315.20	-95.73	387.13	-85.57	344.28
North	U60-L59	944	260.00 ft	12.99%	8.53%	785.16	-96.90	309.55	-69.72	382.87	-42.12	133.68	-64.25	203.47	-74.65	236.57	-97.18	313.21	-111.10	381.83	-99.42	349.77
North	U61-L60	945	220.00 ft	14.49%	10.89%	653.20	-121.39	284.81	-85.19	334.46	-52.78	123.11	-80.53	187.27	-93.54	217.61	-121.76	288.22	-137.70	350.45	-124.30	329.56
North	U62-L61	946	220.00 ft	14.49%	12.31%	507.41	-127.15	239.41	-86.60	271.50	-55.28	103.43	-84.34	157.36	-97.98	182.87	-127.50	242.32	-144.22	301.77	-130.22	280.73
North	U62-L63	947	220.00 ft	14.49%	---	286.06	-8.34	128.41	-7.29	138.99	-3.67	59.83	-5.65	90.35	-6.51	103.29	-6.97	104.32	-8.95	139.75	-5.01	99.37
North	U63-L64	948	220.00 ft	14.49%	---	385.56	-10.38	143.86	-7.46	168.96	-4.54	65.63	-7.02	99.24	-8.04	113.63	-9.76	136.54	-14.62	168.71	-11.41	149.80
North	U64-L65	949	220.00 ft	14.49%	---	437.57	-12.62	171.21	-8.59	190.21	-5.35	74.79	-8.13	112.91	-9.58	131.54	-12.80	166.47	-20.12	202.09	-15.93	176.88
North	U65-L66	950	120.00 ft	20.41%	---	438.30	-16.59	214.08	-11.23	243.27	-7.20	94.79	-10.95	143.10	-12.80	165.69	-15.06	199.18	-23.78	239.78	-19.02	206.82
North	U66-L67	951	120.00 ft	20.41%	---	361.59	-20.46	208.64	-12.96	210.83	-9.48	93.84	-14.16	141.48	-16.04	163.37	-17.74	185.28	-21.69	218.43	-18.58	187.80
North	U67-L68	952	120.00 ft	20.41%	---	128.44	-73.12	140.42	-40.12	100.73	-35.95	65.09	-52.75	97.30	-59.46	111.63	-50.78	111.99	-55.93	145.29	-35.02	115.25
North	U69-L68	953	120.00 ft	20.41%	---	134.85	-64.15	147.76	-32.27	118.37	-31.98	68.66	-46.57	102.21	-52.85	117.93	-41.61	121.94	-62.53	146.63	-44.87	115.47
North	U70-L69	954	120.00 ft	20.41%	---	359.11	-19.93	213.26	-34.43	203.97	-9.10	96.60	-13.62	145.41	-15.84	168.20	-18.55	192.50	-24.90	224.17	-19.08	189.51
North	U71-L70	955	120.00 ft	20.41%	---	432.20	-19.70	217.71	-12.55	224.80	-8.83	96.85	-13.25	145.83	-15.38	169.22	-18.42	204.91	-26.10	244.54	-19.35	211.29
North	U72-L71	956	250.00 ft	13.33%	---	433.03	-15.95	174.20	-13.22	189.12	-7.01	76.49	-10.58	115.60	-12.24	133.90	-15.42	169.06	-22.59	204.31	-18.09	178.85
North	U73-L72	957	250.00 ft	13.33%	---	388.93	-13.36	147.15	-5.31	173.78	-6.12	67.54	-9.23	102.20	-10.69	117.09	-12.98	141.88	-17.84	172.99	-15.39	155.66
North	U74-L73	958	250.00 ft	13.33%	---	306.17	-9.42	130.77	-9.96	138.16	-4.42	60.94	-6.67	92.27	-7.70	105.48	-7.53	107.79	-13.17	146.77	-9.57	115.93
North	U74-L75	959	250.00 ft	13.33%	---	488.81	-118.76	202.34	-106.64	343.24	-51.55	86.81	-78.76	131.71	-91.55	153.97	-120.42	210.08	-139.58	292.85	-126.94	267.91
North	U75-L76	960	250.00 ft	13.33%	---	603.93	-113.89	240.68	-102.78	398.67	-49.28	103.31	-75.35	156.70	-87.65	183.15	-116.27	249.35	-135.15	337.12	-123.59	313.57
North	U76-L77	961	320.00 ft	11.24%	---	675.43	-110.28	264.18	-104.02	435.64	-47.44	113.36	-72.43	172.01	-84.48	200.98	-113.91	273.42	-131.93	363.61	-123.85	340.66
North	U77-L78	962	320.00 ft	11.24%	---	682.44	-126.39	280.59	-121.51	453.39	-54.21	120.59	-82.88	182.93	-96.65	213.61	-131.32	289.04	-153.79	388.88	-144.17	355.81
North	U78-L79	963	320.00 ft	11.24%	---	570.11	-133.31	263.22	-128.13	409.98	-57.18	113.30	-87.41	171.63	-101.94	200.53	-138.52	270.48	-162.16	355.57	-152.01	327.49
North	U79-L80	964	320.00 ft	11.24%	---	342.55	-130.16	228.98	-125.07	334.40	-55.82	99.00	-85.35	149.77	-99.54	174.81	-135.25	233.60	-158.28	307.08	-148.37	278.97
North	U80-L81	965	320.00 ft	11.24%	---	49.79	-115.33	177.92	-110.09	226.30	-49.76	77.26	-75.82	117.01	-88.20	136.24	-119.11	180.07	-139.33	226.47	-130.61	204.87
North	U81-L82	966	320.00 ft	11.24%	---	-232.05	-133.18	140.67	-124.72	149.73	-57.69	61.45	-87.71	92.94	-101.75	108.00	-133.06	141.09	-163.32	155.55	-155.89	142.54
North	U83-L82	967	320.00 ft	11.24%	---	516.83	-87.97	167.77	-58.04	266.85	-38.60	72.78	-58.50	110.41	-67.59	127.93	-87.13	167.65	-93.33	241.38	-84.18	193.25
North	U84-L83	968	320.00 ft	11.24%	---	736.25	-66.75	203.23	-59.18	335.76	-29.03	87.72	-44.36	133.23	-51.53	154.73	-67.35	205.83	-81.82	290.09	-71.19	244.84
North	U85-L84	969	320.00 ft	11.24%	---	861.19	-72.77	236.19	-64.26	386.14	-31.58	101.75	-48.27	154.60	-56.08	179.65	-73.81	240.80	-87.75	319.34	-79.17	295.18

TranSystems

Made By SFH Date 3/30/2012
Checked By DWC Date 3/30/2012

Loading Per AASHTO 17th Standard Edition and ODOT Bridge Design Manual 2004 Ed
Impact Per AASHTO 3.8.2 Multiple Presence per AASHTO 3.12.1
* Based on C = 9.47% for Bend Point 1 (R = 1762.95'), C = 16.7% for Bend Point 2 (R = 1000')

Job No. P402110046
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, Truck Forces***

For South Truss, calculate the following two cases and use critical: reduction due to centrifugal for with impact included, no impact or centrifugal

Truss	Member	Rating ID	Span Length	Impact (Percent)	Centrifugal Force*	Dead Load	STAAD Output with Impact, Multiple Presence Factors and Centrifugal Force															
							HS-20 Truck		HS-20 Lane		2-F1		3-F1		4-F1		5-C1		Truck Train HS20		Truck Train 5C1	
							Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.	Max Comp	Max Ten.
North	U86-L85	970	320.00 ft	11.24%	---	859.57	-88.56	261.52	-79.05	420.61	-38.26	112.41	-58.37	170.89	-68.00	198.72	-90.67	268.65	-107.81	357.60	-98.66	331.66
North	U87-L86	971	300.00 ft	11.76%	---	707.26	-122.89	271.43	-111.81	432.89	-52.73	116.75	-80.54	177.43	-93.98	206.32	-127.62	279.35	-148.97	380.95	-139.93	349.97
North	U88-L87	972	300.00 ft	11.76%	---	467.81	-165.27	258.28	-154.71	392.68	-70.91	111.16	-108.31	168.91	-126.38	196.57	-171.61	265.57	-200.14	357.27	-187.92	333.01
North	U89-L88	973	300.00 ft	11.76%	---	257.36	-182.43	234.52	-171.99	341.76	-78.27	101.30	-119.54	153.75	-139.50	179.00	-189.41	239.81	-220.81	324.97	-207.30	296.20
North	U90-L89	974	300.00 ft	11.76%	---	-64.42	-212.74	208.06	-200.98	305.22	-91.28	90.12	-139.42	136.76	-162.68	159.19	-220.88	211.42	-257.55	286.54	-241.77	261.26
North	U90-L91	975	300.00 ft	11.76%	---	-423.07	-158.21	119.53	-184.98	58.60	-68.28	56.31	-104.13	85.08	-121.22	96.88	-161.23	93.58	-195.53	81.79	-177.71	63.88
North	U91-L92	976	300.00 ft	11.76%	---	13.33	-71.09	139.03	-73.68	59.28	-30.92	64.55	-46.83	97.58	-54.52	111.57	-70.80	114.44	-86.83	102.37	-78.23	82.50
North	U92-L93	977	300.00 ft	11.76%	---	275.17	-12.58	152.89	-9.20	133.00	-5.59	70.37	-8.60	106.37	-9.88	121.93	-10.45	127.65	-14.22	152.42	-12.28	130.03
North	U93-L94	978	300.00 ft	11.76%	---	495.81	-15.60	174.02	-11.79	201.36	-6.97	79.76	-10.76	120.58	-12.29	138.37	-13.07	147.64	-21.60	199.01	-19.88	172.23
North	U94-L95	979	300.00 ft	11.76%	---	798.13	-20.19	223.64	-24.32	307.75	-8.74	98.41	-13.31	148.61	-15.51	172.11	-20.08	224.26	-37.06	297.06	-29.75	256.11
North	U95-L96	980	300.00 ft	11.76%	---	891.90	-23.71	263.77	-16.92	393.34	-10.17	114.18	-15.38	172.66	-18.12	201.74	-23.89	265.81	-42.51	339.89	-34.51	306.06
North	U96-L97	981	160.00 ft	17.54%	---	766.79	-24.90	272.70	-20.29	321.48	-10.73	118.68	-16.24	179.14	-19.09	209.11	-24.57	269.88	-40.38	333.26	-33.82	301.86
North	U97-L98	982	160.00 ft	17.54%	---	581.65	-31.64	240.65	-19.79	245.10	-16.21	105.53	-23.34	158.95	-25.85	185.22	-28.46	233.15	-36.36	282.75	-29.31	244.19
North	U98-L99	983	160.00 ft	17.54%	---	365.18	-59.92	198.50	-35.58	179.75	-29.70	87.89	-43.59	131.89	-48.58	153.56	-42.87	186.54	-50.65	223.22	-34.98	177.76
North	U99-L100	984	160.00 ft	17.54%	---	121.80	-105.39	154.86	-47.45	92.58	-48.95	69.73	-73.03	104.01	-82.99	120.82	-84.81	138.54	-77.97	157.60	-59.31	109.56
North	U101-L100	985	160.00 ft	17.54%	---	124.82	-109.71	149.86	-47.17	87.29	-50.67	67.61	-74.91	101.58	-86.77	116.40	-89.75	133.63	-77.01	149.04	-62.30	102.77
North	U102-L101	986	160.00 ft	17.54%	---	369.97	-65.89	194.15	-35.33	169.54	-32.23	86.09	-46.70	129.93	-53.74	149.64	-46.34	182.29	-43.10	213.54	-29.24	168.57
North	U103-L102	987	160.00 ft	17.54%	---	593.21	-32.72	236.02	-19.13	248.33	-15.96	103.56	-23.75	156.71	-26.06	181.07	-28.85	228.67	-29.30	274.85	-22.03	234.37
North	U104-L103	988	160.00 ft	17.54%	---	786.57	-20.41	268.62	-11.49	317.12	-8.89	117.00	-13.38	177.36	-15.58	205.40	-20.07	266.03	-29.53	325.70	-24.34	295.95
North	U105-L104	989	290.00 ft	12.05%	---	921.37	-16.98	263.94	-10.80	331.52	-7.40	114.29	-11.10	173.49	-12.97	201.41	-17.21	265.19	-31.62	338.83	-24.91	303.74
North	U106-L105	990	290.00 ft	12.05%	---	793.98	-14.84	216.65	-9.13	292.19	-6.74	96.47	-10.10	145.07	-11.74	168.23	-15.07	217.62	-29.58	289.98	-22.45	247.61
North	U107-L106	991	290.00 ft	12.05%	---	559.18	-12.13	177.52	-7.26	218.58	-5.70	81.46	-8.60	122.91	-9.94	141.56	-10.26	155.86	-15.94	220.48	-14.74	182.36
North	U108-L107	992	290.00 ft	12.05%	---	310.66	-11.42	155.96	-4.92	144.20	-5.35	72.14	-8.09	109.06	-9.35	125.12	-9.60	132.88	-11.68	159.17	-10.18	136.18
North	U109-L108	993	290.00 ft	12.05%	---	-131.63	-101.10	129.65	-98.45	61.93	-43.87	61.09	-66.51	92.66	-77.54	105.47	-101.95	103.23	-129.31	91.02	-116.40	71.79
North	U110-L109	994	290.00 ft	12.05%	---	-420.91	-158.62	119.90	-175.56	61.31	-68.50	56.64	-104.56	85.88	-121.71	97.70	-162.29	94.36	-201.49	85.87	-183.04	66.91
North	U110-L111	995	290.00 ft	12.05%	---	155.15	-195.64	206.75	-179.87	280.21	-83.94	89.36	-128.35	135.88	-149.68	158.01	-203.33	211.32	-239.25	279.51	-224.31	249.83
North	U111-L112	996	290.00 ft	12.05%	---	437.34	-182.07	239.77	-170.70	340.10	-78.11	103.44	-119.44	157.38	-139.29	182.77	-189.23	246.34	-222.66	330.06	-208.76	299.33
North	U112-L113	997	290.00 ft	12.05%	---	792.04	-144.73	266.99	-134.90	415.98	-62.09	114.84	-94.94	174.73	-110.72	202.89	-150.45	276.84	-177.06	369.94	-166.01	329.78
North	U113-L114	998	290.00 ft	12.05%	---	1081.04	-92.62	280.37	-83.55	452.50	-39.72	120.39	-60.73	183.16	-70.84	212.87	-96.33	291.88	-113.42	393.32	-106.36	351.42
North	U114-L115	999	290.00 ft	12.05%	---	1219.87	-31.08	268.31	-27.11	448.86	-13.23	114.88	-20.25	174.76	-23.64	203.37	-32.84	278.88	-39.76	367.09	-36.71	340.64
North	U115-L116	1000	320.00 ft	11.24%	---	1151.81	-31.76	235.65	-13.69	393.81	-14.04	101.17	-21.18	153.70	-24.38	178.83	-29.46	242.77	-25.21	319.00	-23.38	293.77
North	U116-L117	1001	320.00 ft	11.24%	11.82%	948.67	-76.07	227.79	-32.72	331.58	-33.68	98.17	-50.82	148.95	-58.69	173.13	-72.66	231.47	-63.25	316.18	-57.63	269.93
North	U117-L118	1002	320.00 ft	11.24%	11.64%	716.75	-105.11	204.18	-47.38	261.96	-45.96	88.73	-69.66	134.35	-80.69	155.80	-102.30	203.69	-84.49	265.46	-79.37	220.61
North	U119-L118	1003	320.00 ft	11.24%	11.54%	-432.14	-169.83	141.06	-172.05	73.92	-74.28	61.27	-112.28	93.18	-130.00	107.99	-167.00	139.55	-197.20	119.15	-183.91	109.28
North	U120-L119	1004	320.00 ft	11.24%	11.62%	-85.64	-132.46	190.25	-97.82	161.29	-58.36	82.10	-88.05	125.00	-101.82	145.16	-129.66	191.46	-143.88	210.38	-129.64	181.57
North	U121-L120	1005	320.00 ft	11.24%	12.02%	283.87	-121.88	243.75	-107.06	282.76	-52.30	104.94	-79.90	159.76	-93.21	185.76	-126.89	248.14	-148.69	285.05	-139.55	272.03
North	U122-L121	1006	320.00 ft	11.24%	12.88%	616.82	-129.48	284.19	-112.52	377.02	-55.58	121.61	-84.90	185.42	-99.03	215.96	-134.75	292.87	-157.86	377.47	-148.11	348.55
North	U123-L122	1007	320.00 ft	11.24%	14.28%	839.47	-126.65	303.93	-108.67	426.43	-54.38	129.75	-83.07	197.96	-96.87	230.73	-131.77	315.55	-154.32	419.04	-144.76	376.91
North	U124-L123	1008	320.00 ft	11.24%	16.35%	943.74	-115.70	296.89	-97.69	431.90	-49.66	126.07	-75.93	192.62	-88.54	224.82	-120.21	311.43	-141.33	413.27	-132.48	368.36
North	U125-L124	1009	320.00 ft	11.24%	19.24%	963.17	-101.76	275.90	-83.27	408.42	-43.67	116.91	-66.77	178.69	-77.86	208.70	-105.74	291.54	-124.34	396.10	-116.56	363.87
North	U126-L125	1010	320.00 ft	11.24%	15.95%	921.34	-80.84	226.72	-67.43	365.51	-34.69	95.72	-53.03	146.38	-61.85	171.19	-84.00	241.38	-98.80	335.67	-92.63	308.89

AS-BUILT RATING

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	L0-L1	1	42.42	31.82	21.10	10.46	0.750	18.15	Carbon	32.69	1178.64	1399.92	1908.98	1399.92
South	L1-L2	2	42.42	31.82	20.70	10.46	0.750	17.81	Carbon	32.70	1179.06	1399.92	1908.98	1399.92
South	L2-L3	3	61.30	45.97	20.30	10.41	0.750	17.55	Carbon	32.71	1704.12	2022.80	2758.36	2022.80
South	L3-L4	4	84.78	63.59	20.10	9.86	0.750	18.34	Carbon	32.68	2355.05	2797.78	3815.16	2797.78
South	L4-L5	5	96.50	72.38	20.00	9.93	0.750	18.13	Carbon	32.69	2681.18	3184.50	4342.50	3184.50
South	L5-L6	6	49.00	36.75	20.00	10.54	0.750	17.07	Carbon	32.72	1362.90	1617.00	2205.00	1617.00
South	L6-L7	7	42.42	31.82	20.20	10.46	0.750	17.38	Carbon	32.71	1179.58	1399.92	1908.98	1399.92
South	L7-L8	8	52.25	39.19	20.60	10.40	0.750	17.83	Carbon	32.70	1452.19	1724.25	2351.25	1724.25
South	L8-L9	9	77.55	58.16	21.10	9.88	0.750	19.23	Carbon	32.65	2152.01	2559.05	3489.61	2559.05
South	L9-L10	10	99.75	74.81	22.10	9.86	0.750	20.17	Carbon	32.61	2765.17	3291.75	4488.75	3291.75
South	L10-L11	11	99.75	74.81	22.20	9.86	0.750	20.26	Carbon	32.61	2764.87	3291.75	4488.75	3291.75
South	L11-L12	12	96.50	72.38	21.20	9.93	0.750	19.22	Carbon	32.65	2678.01	3184.50	4342.50	3184.50
South	L12-L13	13	90.05	67.54	20.50	9.98	0.750	18.49	Carbon	32.67	2500.94	2971.55	4052.11	2971.55
South	L13-L14	14	90.05	67.54	20.20	9.98	0.750	18.21	Carbon	32.68	2501.66	2971.55	4052.11	2971.55
South	L14-L15	15	93.25	69.94	20.00	10.00	0.750	18.00	Carbon	32.69	2591.24	3077.25	4196.25	3077.25
South	L15-L16	16	90.00	67.50	20.00	10.04	0.750	17.92	Carbon	32.69	2501.13	2970.00	4050.00	2970.00
South	L16-L17	17	73.28	54.96	20.30	10.30	0.750	17.74	Carbon	32.70	2036.90	2418.28	3297.66	2418.28
South	L17-L18	18	64.55	48.41	20.90	10.29	0.750	18.29	Carbon	32.68	1793.09	2130.05	2904.61	2130.05
South	L18-L19	19	64.55	48.41	22.10	10.29	0.750	19.34	Carbon	32.64	1791.03	2130.05	2904.61	2130.05
South	L19-L20	20	67.80	50.85	23.50	10.17	0.750	20.80	Carbon	32.59	1878.00	2237.30	3050.86	2237.30
South	L20-L21	21	67.80	50.85	23.70	10.17	0.750	20.97	Carbon	32.58	1877.59	2237.30	3050.86	2237.30
South	L21-L22	22	58.75	44.06	22.20	10.12	0.750	19.74	Carbon	32.63	1629.43	1938.75	2643.75	1938.75
South	L22-L23	23	45.67	34.25	21.00	10.36	0.750	18.25	Carbon	32.68	1268.80	1507.17	2055.23	1507.17
South	L23-L24	24	42.42	31.82	20.30	10.46	0.750	17.46	Carbon	32.71	1179.48	1399.92	1908.98	1399.92
South	L24-L25	25	42.42	31.82	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	1908.98	1399.92
South	L25-L26	26	45.67	34.25	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2055.23	1507.17
South	L26-L27	27	42.42	31.82	20.40	10.46	0.750	17.55	Carbon	32.71	1179.37	1399.92	1908.98	1399.92
South	L27-L28	28	42.42	31.82	21.20	10.46	0.750	18.24	Carbon	32.68	1178.53	1399.92	1908.98	1399.92
South	L28-L29	29	45.67	34.25	23.00	10.36	0.750	19.99	Carbon	32.62	1266.34	1507.17	2055.23	1507.17
South	L29-L30	30	48.92	36.69	25.50	10.20	0.750	22.51	Carbon	32.52	1352.22	1614.42	2201.48	1614.42
South	L30-L31	31	48.92	36.69	25.70	10.20	0.750	22.69	Carbon	32.51	1351.90	1614.42	2201.48	1614.42
South	L31-L32	32	45.67	34.25	23.20	10.36	0.750	20.16	Carbon	32.61	1266.08	1507.17	2055.23	1507.17
South	L32-L33	33	45.67	34.25	21.30	10.36	0.750	18.51	Carbon	32.67	1268.44	1507.17	2055.23	1507.17
South	L33-L34	34	62.77	47.07	20.40	10.41	0.750	17.63	Carbon	32.70	1744.80	2071.27	2824.45	2071.27
South	L34-L35	35	105.80	79.35	20.00	9.36	0.750	19.24	Carbon	32.65	2935.95	3491.30	4760.86	3491.30
South	L35-L36	36	105.80	79.35	20.10	9.36	0.750	19.33	Carbon	32.64	2935.63	3491.30	4760.86	3491.30
South	L36-L37	37	58.05	43.54	20.50	10.38	0.750	17.77	Carbon	32.70	1613.39	1915.55	2612.11	1915.55
South	L37-L38	38	45.67	34.25	22.40	10.36	0.750	19.47	Carbon	32.64	1267.10	1507.17	2055.23	1507.17
South	L38-L39	39	45.67	34.25	24.60	10.36	0.750	21.38	Carbon	32.57	1264.22	1507.17	2055.23	1507.17
South	L39-L40	40	48.92	36.69	28.90	10.20	0.750	25.51	Carbon	32.38	1346.52	1614.42	2201.48	1614.42
South	L40-L41	41	48.92	36.69	29.10	10.20	0.750	25.69	Carbon	32.37	1346.16	1614.42	2201.48	1614.42
South	L41-L42	42	45.67	34.25	24.80	10.36	0.750	21.55	Carbon	32.56	1263.94	1507.17	2055.23	1507.17
South	L42-L43	43	42.42	31.82	22.20	10.46	0.750	19.10	Carbon	32.65	1177.43	1399.92	1908.98	1399.92
South	L43-L44	44	42.42	31.82	20.70	10.46	0.750	17.81	Carbon	32.70	1179.06	1399.92	1908.98	1399.92
South	L44-L45	45	52.56	39.42	20.10	10.54	0.750	17.16	Carbon	32.72	1461.86	1734.56	2365.31	1734.56
South	L45-L46	46	52.56	39.42	20.00	10.54	0.750	17.08	Carbon	32.72	1461.98	1734.56	2365.31	1734.56
South	L46-L47	47	42.42	31.82	20.80	10.46	0.750	17.89	Carbon	32.70	1178.95	1399.92	1908.98	1399.92
South	L47-L48	48	42.42	31.82	21.10	10.46	0.750	18.15	Carbon	32.69	1178.64	1399.92	1908.98	1399.92
South	L48-L49	49	42.42	31.82	24.10	10.46	0.750	20.73	Carbon	32.59	1175.19	1399.92	1908.98	1399.92
South	L49-L50	50	49.00	36.75	29.60	10.54	0.750	25.27	Carbon	32.39	1349.16	1617.00	2205.00	1617.00
South	L50-L51	51	49.00	36.75	28.10	10.54	0.750	23.99	Carbon	32.45	1351.66	1617.00	2205.00	1617.00
South	L51-L52	52	45.67	34.25	24.80	10.36	0.750	21.55	Carbon	32.56	1263.94	1507.17	2055.23	1507.17
South	L52-L53	53	45.67	34.25	22.40	10.36	0.750	19.47	Carbon	32.64	1267.10	1507.17	2055.23	1507.17

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L / $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	L53-L54	54	53.05	39.79	20.90	10.26	0.750	18.34	Carbon	32.68	1473.54	1750.55	2387.11	1750.55
South	L54-L55	55	79.48	59.61	20.40	9.72	0.750	18.88	Carbon	32.66	2206.63	2622.98	3576.80	2622.98
South	L55-L56	56	140.80	105.60	20.00	8.85	0.750	20.34	Carbon	32.61	3902.26	4646.30	6335.86	4646.30
South	L56-L57	57	128.80	96.60	20.00	9.01	0.750	19.98	Carbon	32.62	3571.17	4250.30	5795.86	4250.30
South	L57-L58	58	72.23	54.18	20.40	10.31	0.750	17.81	Carbon	32.70	2007.64	2383.73	3250.55	2383.73
South	L58-L59	59	53.05	39.79	20.80	10.26	0.750	18.25	Carbon	32.68	1473.68	1750.55	2387.11	1750.55
South	L59-L60	60	53.05	39.79	22.30	10.26	0.750	19.57	Carbon	32.64	1471.54	1750.55	2387.11	1750.55
South	L60-L61	61	58.05	43.54	24.90	10.38	0.750	21.58	Carbon	32.56	1606.35	1915.55	2612.11	1915.55
South	L61-L62	62	64.55	48.41	27.70	10.29	0.750	24.24	Carbon	32.44	1779.88	2130.05	2904.61	2130.05
South	L62-L63	63	64.55	48.41	28.70	10.29	0.750	25.11	Carbon	32.40	1777.63	2130.05	2904.61	2130.05
South	L63-L64	64	52.17	39.13	24.80	10.05	0.750	22.20	Carbon	32.53	1442.63	1721.67	2347.73	1721.67
South	L64-L65	65	45.67	34.25	22.60	10.36	0.750	19.64	Carbon	32.63	1266.85	1507.17	2055.23	1507.17
South	L65-L66	66	42.42	31.82	21.10	10.46	0.750	18.15	Carbon	32.69	1178.64	1399.92	1908.98	1399.92
South	L66-L67	67	42.42	31.82	20.40	10.46	0.750	17.55	Carbon	32.71	1179.37	1399.92	1908.98	1399.92
South	L67-L68	68	49.00	36.75	20.00	10.54	0.750	17.07	Carbon	32.72	1362.90	1617.00	2205.00	1617.00
South	L68-L69	69	49.00	36.75	20.00	10.54	0.750	17.07	Carbon	32.72	1362.90	1617.00	2205.00	1617.00
South	L69-L70	70	42.42	31.82	20.40	10.46	0.750	17.55	Carbon	32.71	1179.37	1399.92	1908.98	1399.92
South	L70-L71	71	42.42	31.82	21.10	10.46	0.750	18.15	Carbon	32.69	1178.64	1399.92	1908.98	1399.92
South	L71-L72	72	45.67	34.25	22.60	10.36	0.750	19.64	Carbon	32.63	1266.85	1507.17	2055.23	1507.17
South	L72-L73	73	58.05	43.54	24.70	10.38	0.750	21.41	Carbon	32.56	1606.70	1915.55	2612.11	1915.55
South	L73-L74	74	64.56	48.42	28.80	10.42	0.750	24.86	Carbon	32.41	1778.71	2130.56	2905.31	2130.56
South	L74-L75	75	64.80	48.60	28.70	10.57	0.750	24.44	Carbon	32.43	1786.27	2138.30	2915.86	2138.30
South	L75-L76	76	57.55	43.16	24.60	10.65	0.750	20.79	Carbon	32.59	1594.07	1899.05	2589.61	1899.05
South	L76-L77	77	57.55	43.16	22.40	10.65	0.750	18.93	Carbon	32.66	1597.51	1899.05	2589.61	1899.05
South	L77-L78	78	64.80	48.60	21.10	10.57	0.750	17.97	Carbon	32.69	1800.64	2138.30	2915.86	2138.30
South	L78-L79	79	104.64	78.48	20.40	10.29	0.750	17.84	Carbon	32.70	2908.23	3453.14	4708.83	3453.14
South	L79-L80	80	137.25	102.94	20.10	10.76	0.750	16.81	Carbon	32.73	3818.50	4529.25	6176.25	4529.25
South	L80-L81	81	167.48	125.61	20.00	10.37	0.750	17.35	Carbon	32.71	4657.16	5526.98	7536.80	5526.98
South	L81-L82	82	182.70	137.03	20.00	10.10	0.750	17.83	Carbon	32.70	5077.88	6029.20	8221.64	6029.20
South	L82-L83	83	176.13	132.09	20.00	10.34	0.750	17.41	Carbon	32.71	4897.12	5812.13	7925.63	5812.13
South	L83-L84	84	137.25	102.94	20.00	10.76	0.750	16.73	Carbon	32.73	3818.81	4529.25	6176.25	4529.25
South	L84-L85	85	129.75	97.31	20.10	10.66	0.750	16.97	Carbon	32.73	3609.27	4281.75	5838.75	4281.75
South	L85-L86	86	133.50	100.13	20.40	10.71	0.750	17.14	Carbon	32.72	3712.95	4405.50	6007.50	4405.50
South	L86-L87	87	142.45	106.84	21.10	10.69	0.750	17.77	Carbon	32.70	3959.45	4700.95	6410.39	4700.95
South	L87-L88	88	151.38	113.53	22.50	10.67	0.750	18.98	Carbon	32.66	4201.98	4995.38	6811.88	4995.38
South	L88-L89	89	172.38	129.28	24.50	10.37	0.750	21.26	Carbon	32.57	4772.10	5688.38	7756.88	5688.38
South	L89-L90	90	193.38	145.03	28.70	10.15	0.750	25.45	Carbon	32.38	5322.86	6381.38	8701.88	6381.38
South	L90-L91	91	244.48	183.36	31.10	9.71	0.750	28.82	Carbon	32.21	6693.65	8067.98	11001.80	8067.98
South	L91-L92	92	202.48	151.86	25.00	10.02	0.750	22.46	Carbon	32.52	5597.08	6681.98	9111.80	6681.98
South	L92-L93	93	151.38	113.53	22.60	10.67	0.750	19.06	Carbon	32.65	4201.58	4995.38	6811.88	4995.38
South	L93-L94	94	133.50	100.13	21.40	10.71	0.750	17.98	Carbon	32.69	3709.77	4405.50	6007.50	4405.50
South	L94-L95	95	99.75	74.81	20.40	10.20	0.750	18.00	Carbon	32.69	2771.85	3291.75	4488.75	3291.75
South	L95-L96	96	76.05	57.04	20.10	10.84	0.750	16.69	Carbon	32.74	2115.99	2509.55	3422.11	2509.55
South	L96-L97	97	45.42	34.07	20.00	10.57	0.750	17.03	Carbon	32.72	1263.43	1498.92	2043.98	1498.92
South	L97-L98	98	52.92	39.69	20.00	10.81	0.750	16.65	Carbon	32.74	1472.60	1746.42	2381.48	1746.42
South	L98-L99	99	85.28	63.96	20.00	10.82	0.750	16.64	Carbon	32.74	2373.06	2814.28	3837.66	2814.28
South	L99-L100	100	110.42	82.82	20.00	10.30	0.750	17.48	Carbon	32.71	3070.06	3643.92	4968.98	3643.92
South	L100-L101	101	114.17	85.63	20.00	10.36	0.750	17.38	Carbon	32.71	3174.64	3767.67	5137.73	3767.67
South	L101-L102	102	89.03	66.77	20.00	10.89	0.750	16.52	Carbon	32.74	2477.68	2938.03	4006.41	2938.03
South	L102-L103	103	52.92	39.69	20.00	10.81	0.750	16.65	Carbon	32.74	1472.60	1746.42	2381.48	1746.42
South	L103-L104	104	45.42	34.07	20.00	10.57	0.750	17.03	Carbon	32.72	1263.43	1498.92	2043.98	1498.92
South	L104-L105	105	61.05	45.79	20.10	10.46	0.750	17.29	Carbon	32.72	1697.61	2014.55	2747.11	2014.55
South	L105-L106	106	111.00	83.25	20.50	10.38	0.750	17.77	Carbon	32.70	3085.22	3663.00	4995.00	3663.00

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	L106-L107	107	144.48	108.36	21.10	10.65	0.750	17.84	Carbon	32.70	4015.61	4767.98	6501.80	4767.98
South	L107-L108	108	163.73	122.80	22.30	10.41	0.750	19.28	Carbon	32.65	4543.53	5403.23	7368.05	5403.23
South	L108-L109	109	179.88	134.91	25.90	10.30	0.750	22.62	Carbon	32.51	4971.07	5935.88	8094.38	5935.88
South	L109-L110	110	197.13	147.84	30.70	10.12	0.750	27.30	Carbon	32.29	5410.58	6505.13	8870.63	6505.13
South	L110-L111	111	204.13	153.09	26.40	10.06	0.750	23.62	Carbon	32.47	5633.62	6736.13	9185.63	6736.13
South	L111-L112	112	167.48	125.61	23.90	10.37	0.750	20.74	Carbon	32.59	4639.71	5526.98	7536.80	5526.98
South	L112-L113	113	155.13	116.34	21.90	10.72	0.750	18.39	Carbon	32.68	4308.84	5119.13	6980.63	5119.13
South	L113-L114	114	138.63	103.97	20.70	10.25	0.750	18.18	Carbon	32.69	3851.40	4574.63	6238.13	4574.63
South	L114-L115	115	132.31	99.23	20.20	10.14	0.750	17.92	Carbon	32.69	3677.00	4366.31	5954.06	4366.31
South	L115-L116	116	110.73	83.05	20.00	10.14	0.750	17.75	Carbon	32.70	3077.89	3654.23	4983.05	3654.23
South	L116-L117	117	114.48	85.86	20.00	10.20	0.750	17.64	Carbon	32.70	3182.48	3777.98	5151.80	3777.98
South	L117-L118	118	134.88	101.16	20.00	10.20	0.750	17.65	Carbon	32.70	3749.28	4450.88	6069.38	4450.88
South	L118-L119	119	158.88	119.16	20.00	10.77	0.750	16.72	Carbon	32.73	4420.53	5242.88	7149.38	5242.88
South	L119-L120	120	158.88	119.16	20.00	10.77	0.750	16.72	Carbon	32.73	4420.53	5242.88	7149.38	5242.88
South	L120-L121	121	148.81	111.61	20.10	10.77	0.750	16.79	Carbon	32.73	4140.26	4910.81	6696.56	4910.81
South	L121-L122	122	125.06	93.80	20.40	10.24	0.750	17.93	Carbon	32.69	3475.48	4127.06	5627.81	4127.06
South	L122-L123	123	89.73	67.30	20.80	10.46	0.750	17.89	Carbon	32.70	2493.83	2961.23	4038.05	2961.23
South	L123-L124	124	57.55	43.16	21.50	10.65	0.750	18.17	Carbon	32.69	1598.82	1899.05	2589.61	1899.05
South	L124-L125	125	52.92	39.69	22.60	10.81	0.750	18.81	Carbon	32.66	1469.31	1746.42	2381.48	1746.42
South	L125-L126	126	52.92	39.69	21.90	10.81	0.750	18.23	Carbon	32.68	1470.24	1746.42	2381.48	1746.42
South	U0-U1	127	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U1-U2	128	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
South	U2-U3	129	96.50	77.20	20.00	9.93	0.750	18.13	Carbon	32.69	2681.18	3184.50	4632.00	3184.50
South	U3-U4	130	96.50	77.20	20.00	9.93	0.750	18.13	Carbon	32.69	2681.18	3184.50	4632.00	3184.50
South	U4-U5	131	84.78	67.83	20.00	9.86	0.750	18.25	Carbon	32.68	2355.28	2797.78	4069.50	2797.78
South	U5-U6	132	84.78	67.83	20.00	9.86	0.750	18.25	Carbon	32.68	2355.28	2797.78	4069.50	2797.78
South	U6-U7	133	58.05	46.44	20.00	10.38	0.750	17.34	Carbon	32.71	1614.11	1915.55	2786.25	1915.55
South	U7-U8	134	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U8-U9	135	47.17	37.74	20.00	10.51	0.750	17.13	Carbon	32.72	1311.99	1556.67	2264.25	1556.67
South	U9-U10	136	74.30	59.44	20.00	9.97	0.750	18.06	Carbon	32.69	2064.44	2451.80	3566.25	2451.80
South	U10-U11	137	88.48	70.79	20.00	10.13	0.750	17.76	Carbon	32.70	2459.42	2919.98	4247.25	2919.98
South	U11-U12	138	88.48	70.79	20.00	10.13	0.750	17.76	Carbon	32.70	2459.42	2919.98	4247.25	2919.98
South	U12-U13	139	91.73	73.39	20.00	10.05	0.750	17.90	Carbon	32.70	2549.37	3027.23	4403.25	3027.23
South	U13-U14	140	93.95	75.16	20.00	10.14	0.750	17.74	Carbon	32.70	2611.47	3100.45	4509.75	3100.45
South	U14-U15	141	91.73	73.39	20.00	10.05	0.750	17.90	Carbon	32.70	2549.37	3027.23	4403.25	3027.23
South	U15-U16	142	91.73	73.39	20.00	10.05	0.750	17.90	Carbon	32.70	2549.37	3027.23	4403.25	3027.23
South	U16-U17	143	85.25	68.20	20.00	10.12	0.750	17.79	Carbon	32.70	2369.44	2813.25	4092.00	2813.25
South	U17-U18	144	72.25	57.80	20.00	10.40	0.750	17.30	Carbon	32.72	2009.13	2384.25	3468.00	2384.25
South	U18-U19	145	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
South	U19-U20	146	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
South	U20-U21	147	49.00	39.20	20.00	10.54	0.750	17.07	Carbon	32.72	1362.90	1617.00	2352.00	1617.00
South	U21-U22	148	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
South	U22-U23	149	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
South	U23-U24	150	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U24-U25	151	52.17	41.74	20.00	10.05	0.750	17.90	Carbon	32.70	1449.90	1721.67	2504.25	1721.67
South	U25-U26	152	52.17	41.74	20.00	10.05	0.750	17.90	Carbon	32.70	1449.90	1721.67	2504.25	1721.67
South	U26-U27	153	52.17	41.74	20.00	10.05	0.750	17.90	Carbon	32.70	1449.90	1721.67	2504.25	1721.67
South	U27-U28	154	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U28-U29	155	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
South	U29-U30	156	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
South	U30-U31	157	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U31-U32	158	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U32-U33	159	63.52	50.81	20.00	10.40	0.750	17.31	Carbon	32.71	1766.22	2096.02	3048.75	2096.02

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	U33-U34	160	91.42	73.14	20.00	9.83	0.750	18.32	Carbon	32.68	2539.58	3016.92	4388.25	3016.92
South	U34-U35	161	101.70	81.36	20.00	10.03	0.750	17.95	Carbon	32.69	2826.28	3356.20	4881.75	3356.20
South	U35-U36	162	101.70	81.36	20.00	10.03	0.750	17.95	Carbon	32.69	2826.28	3356.20	4881.75	3356.20
South	U36-U37	163	86.80	69.44	20.00	9.85	0.750	18.28	Carbon	32.68	2411.21	2864.30	4166.25	2864.30
South	U37-U38	164	62.77	50.21	20.00	10.41	0.750	17.29	Carbon	32.72	1745.41	2071.27	3012.75	2071.27
South	U38-U39	165	58.80	47.04	20.00	9.74	0.750	18.48	Carbon	32.68	1633.02	1940.30	2822.25	1940.30
South	U39-U40	166	58.80	47.04	20.00	9.74	0.750	18.48	Carbon	32.68	1633.02	1940.30	2822.25	1940.30
South	U40-U41	167	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
South	U41-U42	168	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
South	U42-U43	169	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U43-U44	170	56.30	45.04	20.00	10.12	0.750	17.78	Carbon	32.70	1564.73	1857.80	2702.25	1857.80
South	U44-U45	171	62.77	50.21	20.00	10.41	0.750	17.29	Carbon	32.72	1745.41	2071.27	3012.75	2071.27
South	U45-U46	172	62.77	50.21	20.00	10.41	0.750	17.29	Carbon	32.72	1745.41	2071.27	3012.75	2071.27
South	U46-U47	173	56.30	45.04	20.00	10.12	0.750	17.78	Carbon	32.70	1564.73	1857.80	2702.25	1857.80
South	U47-U48	174	45.67	36.54	18.70	10.36	0.750	16.25	Carbon	32.75	1271.34	1507.17	2192.25	1507.17
South	U48-U49	175	42.42	33.94	18.00	10.46	0.750	15.48	Carbon	32.77	1181.71	1399.92	2036.25	1399.92
South	U49-U50	176	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
South	U50-U51	177	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U51-U52	178	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U52-U53	179	54.55	43.64	20.00	10.39	0.750	17.33	Carbon	32.71	1516.80	1800.05	2618.25	1800.05
South	U53-U54	180	77.06	61.65	20.00	9.94	0.750	18.11	Carbon	32.69	2141.18	2543.06	3699.00	2543.06
South	U54-U55	181	103.31	82.65	20.00	9.37	0.750	19.22	Carbon	32.65	2867.06	3409.31	4959.00	3409.31
South	U55-U56	182	106.92	85.54	20.00	9.48	0.750	18.98	Carbon	32.66	2968.01	3528.42	5132.25	3528.42
South	U56-U57	183	106.92	85.54	20.00	9.48	0.750	18.98	Carbon	32.66	2968.01	3528.42	5132.25	3528.42
South	U57-U58	184	70.55	56.44	20.00	9.68	0.750	18.60	Carbon	32.67	1959.12	2328.05	3386.25	2328.05
South	U58-U59	185	73.80	59.04	20.00	9.77	0.750	18.43	Carbon	32.68	2049.73	2435.30	3542.25	2435.30
South	U59-U60	186	52.25	41.80	20.00	10.40	0.750	17.31	Carbon	32.72	1452.96	1724.25	2508.00	1724.25
South	U60-U61	187	45.75	36.60	20.00	10.42	0.750	17.27	Carbon	32.72	1272.25	1509.75	2196.00	1509.75
South	U61-U62	188	45.67	36.54	18.10	10.36	0.750	15.73	Carbon	32.76	1271.96	1507.17	2192.25	1507.17
South	U62-U63	189	59.80	47.84	20.00	10.30	0.750	17.48	Carbon	32.71	1662.53	1973.30	2870.25	1973.30
South	U63-U64	190	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
South	U64-U65	191	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
South	U65-U66	192	48.61	38.89	20.00	10.40	0.750	17.30	Carbon	32.72	1351.72	1604.11	2333.25	1604.11
South	U66-U67	193	50.67	40.54	20.00	10.09	0.750	17.84	Carbon	32.70	1408.30	1672.17	2432.25	1672.17
South	U67-U68	194	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
South	U68-U69	195	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
South	U69-U70	196	56.30	45.04	20.00	10.12	0.750	17.78	Carbon	32.70	1564.73	1857.80	2702.25	1857.80
South	U70-U71	197	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U71-U72	198	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
South	U72-U73	199	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
South	U73-U74	200	57.78	46.23	20.00	10.50	0.750	17.15	Carbon	32.72	1607.03	1906.78	2773.50	1906.78
South	U74-U75	201	45.42	36.34	20.00	10.57	0.750	17.03	Carbon	32.72	1263.43	1498.92	2180.25	1498.92
South	U75-U76	202	68.55	54.84	20.00	10.67	0.750	16.88	Carbon	32.73	1906.96	2262.05	3290.25	2262.05
South	U76-U77	203	68.55	54.84	20.00	10.67	0.750	16.88	Carbon	32.73	1906.96	2262.05	3290.25	2262.05
South	U77-U78	204	100.94	80.75	20.00	10.49	0.750	17.17	Carbon	32.72	2807.25	3330.94	4845.00	3330.94
South	U78-U79	205	140.69	112.55	20.00	10.56	0.750	17.04	Carbon	32.72	3913.25	4642.69	6753.00	4642.69
South	U79-U80	206	166.38	133.10	20.00	10.77	0.750	16.71	Carbon	32.73	4629.28	5490.38	7986.00	5490.38
South	U80-U81	207	189.13	151.30	20.00	10.20	0.750	17.64	Carbon	32.70	5257.37	6241.13	9078.00	6241.13
South	U81-U82	208	181.88	145.50	20.00	10.32	0.750	17.45	Carbon	32.71	5056.82	6001.88	8730.00	6001.88
South	U82-U83	209	181.88	145.50	20.00	10.32	0.750	17.45	Carbon	32.71	5056.82	6001.88	8730.00	6001.88
South	U83-U84	210	168.03	134.43	20.00	10.23	0.750	17.60	Carbon	32.71	4671.20	5545.03	8065.50	5545.03
South	U84-U85	211	139.28	111.43	20.00	10.72	0.750	16.80	Carbon	32.73	3875.06	4596.28	6685.50	4596.28
South	U85-U86	212	129.48	103.59	20.00	10.44	0.750	17.25	Carbon	32.72	3600.89	4272.98	6215.25	4272.98

Calculations For: ***CUY-2-1441 Main Truss, Member Capacities***

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	U86-U87	213	129.48	103.59	20.00	10.44	0.750	17.25	Carbon	32.72	3600.89	4272.98	6215.25	4272.98
South	U87-U88	214	133.23	106.59	20.00	10.49	0.750	17.16	Carbon	32.72	3705.50	4396.73	6395.25	4396.73
South	U88-U89	215	133.23	106.59	20.00	10.49	0.750	17.16	Carbon	32.72	3705.50	4396.73	6395.25	4396.73
South	U89-U90	216	133.23	106.59	20.00	10.49	0.750	17.16	Carbon	32.72	3705.50	4396.73	6395.25	4396.73
South	U90-U91	217	133.23	106.59	20.00	10.49	0.750	17.16	Carbon	32.72	3705.50	4396.73	6395.25	4396.73
South	U91-U92	218	133.23	106.59	20.00	10.49	0.750	17.16	Carbon	32.72	3705.50	4396.73	6395.25	4396.73
South	U92-U93	219	121.98	97.59	20.00	10.32	0.750	17.44	Carbon	32.71	3391.67	4025.48	5855.25	4025.48
South	U93-U94	220	97.23	77.79	20.00	10.59	0.750	17.00	Carbon	32.72	2704.69	3208.73	4667.25	3208.73
South	U94-U95	221	61.05	48.84	20.00	10.46	0.750	17.20	Carbon	32.72	1697.76	2014.55	2930.25	2014.55
South	U95-U96	222	45.42	36.34	20.00	10.57	0.750	17.03	Carbon	32.72	1263.43	1498.92	2180.25	1498.92
South	U96-U97	223	61.05	48.84	20.00	10.46	0.750	17.20	Carbon	32.72	1697.76	2014.55	2930.25	2014.55
South	U97-U98	224	93.00	74.40	20.00	10.43	0.750	17.25	Carbon	32.72	2586.27	3069.00	4464.00	3069.00
South	U98-U99	225	111.06	88.85	20.00	10.37	0.750	17.36	Carbon	32.71	3088.25	3665.06	5331.00	3665.06
South	U99-U100	226	121.00	96.80	20.00	10.33	0.750	17.43	Carbon	32.71	3364.32	3993.00	5808.00	3993.00
South	U100-U101	227	121.00	96.80	20.00	10.33	0.750	17.43	Carbon	32.71	3364.32	3993.00	5808.00	3993.00
South	U101-U102	228	114.56	91.65	20.00	10.37	0.750	17.35	Carbon	32.71	3185.59	3780.56	5499.00	3780.56
South	U102-U103	229	93.00	74.40	20.00	10.43	0.750	17.25	Carbon	32.72	2586.27	3069.00	4464.00	3069.00
South	U103-U104	230	61.05	48.84	20.00	10.46	0.750	17.20	Carbon	32.72	1697.76	2014.55	2930.25	2014.55
South	U104-U105	231	60.42	48.34	20.00	11.01	0.750	16.35	Carbon	32.75	1681.77	1993.92	2900.25	1993.92
South	U105-U106	232	61.05	48.84	20.00	10.46	0.750	17.20	Carbon	32.72	1697.76	2014.55	2930.25	2014.55
South	U106-U107	233	105.30	84.24	20.00	10.65	0.750	16.90	Carbon	32.73	2929.25	3474.80	5054.25	3474.80
South	U107-U108	234	133.23	106.59	20.00	10.49	0.750	17.16	Carbon	32.72	3705.50	4396.73	6395.25	4396.73
South	U108-U109	235	144.48	115.59	20.00	10.65	0.750	16.91	Carbon	32.73	4019.39	4767.98	6935.25	4767.98
South	U109-U110	236	140.73	112.59	20.00	10.59	0.750	16.99	Carbon	32.73	3914.76	4644.23	6755.25	4644.23
South	U110-U111	237	140.73	112.59	18.90	10.59	0.750	16.06	Carbon	32.75	3918.27	4644.23	6755.25	4644.23
South	U111-U112	238	140.73	112.59	20.00	10.59	0.750	16.99	Carbon	32.73	3914.76	4644.23	6755.25	4644.23
South	U112-U113	239	140.73	112.59	20.00	10.59	0.750	16.99	Carbon	32.73	3914.76	4644.23	6755.25	4644.23
South	U113-U114	240	122.44	97.95	20.00	10.73	0.750	16.77	Carbon	32.73	3406.54	4040.44	5877.00	4040.44
South	U114-U115	241	108.44	86.75	20.00	10.63	0.750	16.93	Carbon	32.73	3016.54	3578.44	5205.00	3578.44
South	U115-U116	242	118.58	94.86	20.00	10.76	0.750	16.73	Carbon	32.73	3299.30	3913.08	5691.75	3913.08
South	U116-U117	243	139.20	111.36	20.00	10.59	0.750	17.00	Carbon	32.73	3872.14	4593.70	6681.75	4593.70
South	U117-U118	244	151.23	120.99	20.00	10.61	0.750	16.97	Carbon	32.73	4206.93	4990.73	7259.25	4990.73
South	U118-U119	245	151.23	120.99	20.00	10.61	0.750	16.97	Carbon	32.73	4206.93	4990.73	7259.25	4990.73
South	U119-U120	246	159.98	127.99	20.00	10.45	0.750	17.23	Carbon	32.72	4449.15	5279.48	7679.25	5279.48
South	U120-U121	247	159.98	127.99	20.00	10.45	0.750	17.23	Carbon	32.72	4449.15	5279.48	7679.25	5279.48
South	U121-U122	248	147.48	117.99	20.00	10.56	0.750	17.04	Carbon	32.72	4102.31	4866.98	7079.25	4866.98
South	U122-U123	249	118.23	94.59	20.00	10.26	0.750	17.54	Carbon	32.71	3287.07	3901.73	5675.25	3901.73
South	U123-U124	250	87.30	69.84	20.00	11.06	0.750	16.27	Carbon	32.75	2429.99	2880.80	4190.25	2880.80
South	U124-U125	251	61.05	48.84	20.00	10.46	0.750	17.20	Carbon	32.72	1697.76	2014.55	2930.25	2014.55
South	U125-U126	252	52.92	42.34	16.10	10.81	0.750	13.40	Carbon	32.83	1476.77	1746.42	2540.25	1746.42
North	L0-L1	253	42.42	31.82	21.10	10.46	0.750	18.15	Carbon	32.69	1178.64	1399.92	1908.98	1399.92
North	L1-L2	254	42.42	31.82	20.70	10.46	0.750	17.81	Carbon	32.70	1179.06	1399.92	1908.98	1399.92
North	L2-L3	255	61.30	45.97	20.30	10.41	0.750	17.55	Carbon	32.71	1704.12	2022.80	2758.36	2022.80
North	L3-L4	256	84.78	63.59	20.10	9.86	0.750	18.34	Carbon	32.68	2355.05	2797.78	3815.16	2797.78
North	L4-L5	257	96.50	72.38	20.00	9.93	0.750	18.13	Carbon	32.69	2681.18	3184.50	4342.50	3184.50
North	L5-L6	258	49.00	36.75	20.00	10.54	0.750	17.07	Carbon	32.72	1362.90	1617.00	2205.00	1617.00
North	L6-L7	259	42.42	31.82	20.20	10.46	0.750	17.38	Carbon	32.71	1179.58	1399.92	1908.98	1399.92
North	L7-L8	260	52.25	39.19	20.60	10.40	0.750	17.83	Carbon	32.70	1452.19	1724.25	2351.25	1724.25
North	L8-L9	261	77.55	58.16	21.10	9.88	0.750	19.23	Carbon	32.65	2152.01	2559.05	3489.61	2559.05
North	L9-L10	262	99.75	74.81	22.10	9.86	0.750	20.17	Carbon	32.61	2765.17	3291.75	4488.75	3291.75
North	L10-L11	263	99.75	74.81	22.20	9.86	0.750	20.26	Carbon	32.61	2764.87	3291.75	4488.75	3291.75
North	L11-L12	264	96.50	72.38	21.20	9.93	0.750	19.22	Carbon	32.65	2678.01	3184.50	4342.50	3184.50
North	L12-L13	265	90.05	67.54	20.50	9.98	0.750	18.49	Carbon	32.67	2500.94	2971.55	4052.11	2971.55

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L / $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	L13-L14	266	90.05	67.54	20.20	9.98	0.750	18.21	Carbon	32.68	2501.66	2971.55	4052.11	2971.55
North	L14-L15	267	93.25	69.94	20.00	10.00	0.750	18.00	Carbon	32.69	2591.24	3077.25	4196.25	3077.25
North	L15-L16	268	90.00	67.50	20.00	10.04	0.750	17.92	Carbon	32.69	2501.13	2970.00	4050.00	2970.00
North	L16-L17	269	73.28	54.96	20.30	10.30	0.750	17.74	Carbon	32.70	2036.90	2418.28	3297.66	2418.28
North	L17-L18	270	64.55	48.41	20.90	10.29	0.750	18.29	Carbon	32.68	1793.09	2130.05	2904.61	2130.05
North	L18-L19	271	64.55	48.41	22.10	10.29	0.750	19.34	Carbon	32.64	1791.03	2130.05	2904.61	2130.05
North	L19-L20	272	67.80	50.85	23.50	10.17	0.750	20.80	Carbon	32.59	1878.00	2237.30	3050.86	2237.30
North	L20-L21	273	67.80	50.85	23.70	10.17	0.750	20.97	Carbon	32.58	1877.59	2237.30	3050.86	2237.30
North	L21-L22	274	58.75	44.06	22.20	10.12	0.750	19.74	Carbon	32.63	1629.43	1938.75	2643.75	1938.75
North	L22-L23	275	45.67	34.25	21.00	10.36	0.750	18.25	Carbon	32.68	1268.80	1507.17	2055.23	1507.17
North	L23-L24	276	42.42	31.82	20.30	10.46	0.750	17.46	Carbon	32.71	1179.48	1399.92	1908.98	1399.92
North	L24-L25	277	42.42	31.82	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	1908.98	1399.92
North	L25-L26	278	45.67	34.25	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2055.23	1507.17
North	L26-L27	279	42.42	31.82	20.40	10.46	0.750	17.55	Carbon	32.71	1179.37	1399.92	1908.98	1399.92
North	L27-L28	280	42.42	31.82	21.20	10.46	0.750	18.24	Carbon	32.68	1178.53	1399.92	1908.98	1399.92
North	L28-L29	281	45.67	34.25	23.00	10.36	0.750	19.99	Carbon	32.62	1266.34	1507.17	2055.23	1507.17
North	L29-L30	282	48.92	36.69	25.50	10.20	0.750	22.51	Carbon	32.52	1352.22	1614.42	2201.48	1614.42
North	L30-L31	283	48.92	36.69	25.70	10.20	0.750	22.69	Carbon	32.51	1351.90	1614.42	2201.48	1614.42
North	L31-L32	284	45.67	34.25	23.20	10.36	0.750	20.16	Carbon	32.61	1266.08	1507.17	2055.23	1507.17
North	L32-L33	285	45.67	34.25	21.30	10.36	0.750	18.51	Carbon	32.67	1268.44	1507.17	2055.23	1507.17
North	L33-L34	286	62.77	47.07	20.40	10.41	0.750	17.63	Carbon	32.70	1744.80	2071.27	2824.45	2071.27
North	L34-L35	287	105.80	79.35	20.00	9.36	0.750	19.24	Carbon	32.65	2935.95	3491.30	4760.86	3491.30
North	L35-L36	288	105.80	79.35	20.10	9.36	0.750	19.33	Carbon	32.64	2935.63	3491.30	4760.86	3491.30
North	L36-L37	289	58.05	43.54	20.50	10.38	0.750	17.77	Carbon	32.70	1613.39	1915.55	2612.11	1915.55
North	L37-L38	290	45.67	34.25	22.40	10.36	0.750	19.47	Carbon	32.64	1267.10	1507.17	2055.23	1507.17
North	L38-L39	291	45.67	34.25	24.60	10.36	0.750	21.38	Carbon	32.57	1264.22	1507.17	2055.23	1507.17
North	L39-L40	292	48.92	36.69	28.90	10.20	0.750	25.51	Carbon	32.38	1346.52	1614.42	2201.48	1614.42
North	L40-L41	293	48.92	36.69	29.10	10.20	0.750	25.69	Carbon	32.37	1346.16	1614.42	2201.48	1614.42
North	L41-L42	294	45.67	34.25	24.80	10.36	0.750	21.55	Carbon	32.56	1263.94	1507.17	2055.23	1507.17
North	L42-L43	295	42.42	31.82	22.20	10.46	0.750	19.10	Carbon	32.65	1177.43	1399.92	1908.98	1399.92
North	L43-L44	296	42.42	31.82	20.70	10.46	0.750	17.81	Carbon	32.70	1179.06	1399.92	1908.98	1399.92
North	L44-L45	297	52.56	39.42	20.10	10.54	0.750	17.16	Carbon	32.72	1461.86	1734.56	2365.31	1734.56
North	L45-L46	298	52.56	39.42	20.00	10.54	0.750	17.08	Carbon	32.72	1461.98	1734.56	2365.31	1734.56
North	L46-L47	299	42.42	31.82	20.80	10.46	0.750	17.89	Carbon	32.70	1178.95	1399.92	1908.98	1399.92
North	L47-L48	300	42.42	31.82	23.50	10.46	0.750	20.21	Carbon	32.61	1175.92	1399.92	1908.98	1399.92
North	L48-L49	301	45.67	34.25	27.50	10.36	0.750	23.90	Carbon	32.46	1260.00	1507.17	2055.23	1507.17
North	L49-L50	302	48.92	36.69	29.60	10.20	0.750	26.13	Carbon	32.35	1345.26	1614.42	2201.48	1614.42
North	L50-L51	303	45.67	34.25	28.10	10.36	0.750	24.42	Carbon	32.43	1259.07	1507.17	2055.23	1507.17
North	L51-L52	304	45.67	34.25	24.80	10.36	0.750	21.55	Carbon	32.56	1263.94	1507.17	2055.23	1507.17
North	L52-L53	305	45.67	34.25	22.40	10.36	0.750	19.47	Carbon	32.64	1267.10	1507.17	2055.23	1507.17
North	L53-L54	306	75.48	56.61	20.90	10.40	0.750	18.09	Carbon	32.69	2097.36	2490.98	3396.80	2490.98
North	L54-L55	307	118.63	88.97	20.40	9.58	0.750	19.17	Carbon	32.65	3292.19	3914.63	5338.13	3914.63
North	L55-L56	308	206.38	154.78	20.00	8.67	0.750	20.75	Carbon	32.59	5716.95	6810.38	9286.88	6810.38
North	L56-L57	309	203.38	152.53	20.00	8.70	0.750	20.70	Carbon	32.59	5634.22	6711.38	9151.88	6711.38
North	L57-L58	310	106.98	80.24	20.40	10.04	0.750	18.29	Carbon	32.68	2971.96	3530.48	4814.30	3530.48
North	L58-L59	311	69.00	51.75	20.80	10.31	0.750	18.16	Carbon	32.69	1917.06	2277.00	3105.00	2277.00
North	L59-L60	312	58.05	43.54	22.30	10.38	0.750	19.33	Carbon	32.64	1610.68	1915.55	2612.11	1915.55
North	L60-L61	313	58.05	43.54	24.90	10.38	0.750	21.58	Carbon	32.56	1606.35	1915.55	2612.11	1915.55
North	L61-L62	314	61.30	45.97	30.10	10.41	0.750	26.02	Carbon	32.36	1685.83	2022.80	2758.36	2022.80
North	L62-L63	315	61.30	45.97	28.70	10.41	0.750	24.81	Carbon	32.41	1688.88	2022.80	2758.36	2022.80
North	L63-L64	316	48.92	36.69	24.80	10.20	0.750	21.89	Carbon	32.54	1353.30	1614.42	2201.48	1614.42
North	L64-L65	317	45.67	34.25	22.60	10.36	0.750	19.64	Carbon	32.63	1266.85	1507.17	2055.23	1507.17
North	L65-L66	318	42.42	31.82	21.10	10.46	0.750	18.15	Carbon	32.69	1178.64	1399.92	1908.98	1399.92

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	L66-L67	319	42.42	31.82	20.40	10.46	0.750	17.55	Carbon	32.71	1179.37	1399.92	1908.98	1399.92
North	L67-L68	320	49.00	36.75	20.00	10.54	0.750	17.07	Carbon	32.72	1362.90	1617.00	2205.00	1617.00
North	L68-L69	321	49.00	36.75	20.00	10.54	0.750	17.07	Carbon	32.72	1362.90	1617.00	2205.00	1617.00
North	L69-L70	322	42.42	31.82	20.40	10.46	0.750	17.55	Carbon	32.71	1179.37	1399.92	1908.98	1399.92
North	L70-L71	323	42.42	31.82	21.10	10.46	0.750	18.15	Carbon	32.69	1178.64	1399.92	1908.98	1399.92
North	L71-L72	324	45.67	34.25	22.60	10.36	0.750	19.64	Carbon	32.63	1266.85	1507.17	2055.23	1507.17
North	L72-L73	325	58.05	43.54	24.70	10.38	0.750	21.41	Carbon	32.56	1606.70	1915.55	2612.11	1915.55
North	L73-L74	326	64.56	48.42	28.80	10.42	0.750	24.86	Carbon	32.41	1778.71	2130.56	2905.31	2130.56
North	L74-L75	327	64.80	48.60	28.60	10.57	0.750	24.35	Carbon	32.44	1786.48	2138.30	2915.86	2138.30
North	L75-L76	328	57.55	43.16	24.60	10.65	0.750	20.79	Carbon	32.59	1594.07	1899.05	2589.61	1899.05
North	L76-L77	329	57.55	43.16	22.40	10.65	0.750	18.93	Carbon	32.66	1597.51	1899.05	2589.61	1899.05
North	L77-L78	330	64.80	48.60	21.10	10.57	0.750	17.97	Carbon	32.69	1800.64	2138.30	2915.86	2138.30
North	L78-L79	331	104.64	78.48	20.40	10.29	0.750	17.84	Carbon	32.70	2908.23	3453.14	4708.83	3453.14
North	L79-L80	332	137.25	102.94	20.10	10.76	0.750	16.81	Carbon	32.73	3818.50	4529.25	6176.25	4529.25
North	L80-L81	333	167.48	125.61	20.00	10.37	0.750	17.35	Carbon	32.71	4657.16	5526.98	7536.80	5526.98
North	L81-L82	334	182.70	137.03	20.00	10.10	0.750	17.83	Carbon	32.70	5077.88	6029.20	8221.64	6029.20
North	L82-L83	335	176.13	132.09	20.00	10.34	0.750	17.41	Carbon	32.71	4897.12	5812.13	7925.63	5812.13
North	L83-L84	336	137.25	102.94	20.00	10.76	0.750	16.73	Carbon	32.73	3818.81	4529.25	6176.25	4529.25
North	L84-L85	337	129.75	97.31	20.10	10.66	0.750	16.97	Carbon	32.73	3609.27	4281.75	5838.75	4281.75
North	L85-L86	338	133.50	100.13	20.40	10.71	0.750	17.14	Carbon	32.72	3712.95	4405.50	6007.50	4405.50
North	L86-L87	339	142.45	106.84	21.10	10.69	0.750	17.77	Carbon	32.70	3959.45	4700.95	6410.39	4700.95
North	L87-L88	340	151.38	113.53	22.50	10.67	0.750	18.98	Carbon	32.66	4201.98	4995.38	6811.88	4995.38
North	L88-L89	341	172.38	129.28	24.50	10.37	0.750	21.26	Carbon	32.57	4772.10	5688.38	7756.88	5688.38
North	L89-L90	342	193.38	145.03	28.70	10.15	0.750	25.45	Carbon	32.38	5322.86	6381.38	8701.88	6381.38
North	L90-L91	343	244.48	183.36	31.10	9.71	0.750	28.82	Carbon	32.21	6693.65	8067.98	11001.80	8067.98
North	L91-L92	344	202.48	151.86	25.00	10.02	0.750	22.46	Carbon	32.52	5597.08	6681.98	9111.80	6681.98
North	L92-L93	345	151.38	113.53	22.60	10.67	0.750	19.06	Carbon	32.65	4201.58	4995.38	6811.88	4995.38
North	L93-L94	346	133.50	100.13	21.40	10.71	0.750	17.98	Carbon	32.69	3709.77	4405.50	6007.50	4405.50
North	L94-L95	347	99.75	74.81	20.40	10.20	0.750	18.00	Carbon	32.69	2771.85	3291.75	4488.75	3291.75
North	L95-L96	348	76.05	57.04	20.10	10.84	0.750	16.69	Carbon	32.74	2115.99	2509.55	3422.11	2509.55
North	L96-L97	349	45.42	34.07	20.00	10.57	0.750	17.03	Carbon	32.72	1263.43	1498.92	2043.98	1498.92
North	L97-L98	350	52.92	39.69	20.00	10.81	0.750	16.65	Carbon	32.74	1472.60	1746.42	2381.48	1746.42
North	L98-L99	351	85.28	63.96	20.00	10.82	0.750	16.64	Carbon	32.74	2373.06	2814.28	3837.66	2814.28
North	L99-L100	352	108.44	81.33	20.00	10.63	0.750	16.93	Carbon	32.73	3016.54	3578.44	4879.69	3578.44
North	L100-L101	353	108.44	81.33	20.00	10.63	0.750	16.93	Carbon	32.73	3016.54	3578.44	4879.69	3578.44
North	L101-L102	354	85.28	63.96	20.00	10.82	0.750	16.64	Carbon	32.74	2373.06	2814.28	3837.66	2814.28
North	L102-L103	355	52.92	39.69	20.00	10.81	0.750	16.65	Carbon	32.74	1472.60	1746.42	2381.48	1746.42
North	L103-L104	356	45.42	34.07	20.00	10.57	0.750	17.03	Carbon	32.72	1263.43	1498.92	2043.98	1498.92
North	L104-L105	357	61.05	45.79	20.10	10.46	0.750	17.29	Silicon	44.47	2307.61	2747.11	3204.96	2747.11
North	L105-L106	358	111.00	83.25	20.50	10.38	0.750	17.77	Silicon	44.44	4193.07	4995.00	5827.50	4995.00
North	L106-L107	359	144.48	108.36	21.10	10.65	0.750	17.84	Silicon	44.44	5457.41	6501.80	7585.43	6501.80
North	L107-L108	360	163.73	122.80	22.30	10.41	0.750	19.28	Silicon	44.34	6171.32	7368.05	8596.05	7368.05
North	L108-L109	361	179.88	134.91	25.90	10.30	0.750	22.62	Silicon	44.09	6741.83	8094.38	9443.44	8094.38
North	L109-L110	362	197.13	147.84	30.70	10.12	0.750	27.30	Silicon	43.68	7319.17	8870.63	10349.06	8870.63
North	L110-L111	363	204.13	153.09	28.10	10.06	0.750	25.14	Silicon	43.88	7613.78	9185.63	10716.56	9185.63
North	L111-L112	364	167.48	125.61	23.90	10.37	0.750	20.74	Silicon	44.24	6298.00	7536.80	8792.93	7536.80
North	L112-L113	365	155.13	116.34	21.90	10.72	0.750	18.39	Silicon	44.40	5854.66	6980.63	8144.06	6980.63
North	L113-L114	366	138.63	103.97	20.70	10.25	0.750	18.18	Silicon	44.42	5233.54	6238.13	7277.81	6238.13
North	L114-L115	367	132.31	99.23	20.20	10.14	0.750	17.92	Silicon	44.43	4997.04	5954.06	6946.41	5954.06
North	L115-L116	368	110.73	83.05	20.00	10.14	0.750	17.75	Silicon	44.44	4183.13	4983.05	5813.55	4983.05
North	L116-L117	369	114.48	85.86	20.00	10.20	0.750	17.64	Silicon	44.45	4325.46	5151.80	6010.43	5151.80
North	L117-L118	370	134.88	101.16	20.00	10.20	0.750	17.65	Silicon	44.45	5095.81	6069.38	7080.94	6069.38
North	L118-L119	371	158.88	119.16	20.00	10.77	0.750	16.72	Silicon	44.51	6010.20	7149.38	8340.94	7149.38

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities												
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	L119-L120	372	158.88	119.16	20.00	10.77	0.750	16.72	Silicon	44.51	6010.20	7149.38	8340.94	7149.38
North	L120-L121	373	148.81	111.61	20.10	10.77	0.750	16.79	Silicon	44.50	5628.98	6696.56	7812.66	6696.56
North	L121-L122	374	125.06	93.80	20.40	10.24	0.750	17.93	Silicon	44.43	4723.17	5627.81	6565.78	5627.81
North	L122-L123	375	89.73	67.30	20.80	10.46	0.750	17.89	Silicon	44.43	3389.17	4038.05	4711.05	4038.05
North	L123-L124	376	57.55	43.16	21.50	10.65	0.750	18.17	Silicon	44.42	2172.59	2589.61	3021.21	2589.61
North	L124-L125	377	52.92	39.69	22.60	10.81	0.750	18.81	Silicon	44.37	1996.10	2381.48	2778.40	2381.48
North	L125-L126	378	52.92	39.69	28.40	10.81	0.750	23.64	Silicon	44.01	1979.79	2381.48	2778.40	2381.48
North	U0-U1	379	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
North	U1-U2	380	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
North	U2-U3	381	96.50	77.20	20.00	9.93	0.750	18.13	Carbon	32.69	2681.18	3184.50	4632.00	3184.50
North	U3-U4	382	96.50	77.20	20.00	9.93	0.750	18.13	Carbon	32.69	2681.18	3184.50	4632.00	3184.50
North	U4-U5	383	84.78	67.83	20.00	9.86	0.750	18.25	Carbon	32.68	2355.28	2797.78	4069.50	2797.78
North	U5-U6	384	84.78	67.83	20.00	9.86	0.750	18.25	Carbon	32.68	2355.28	2797.78	4069.50	2797.78
North	U6-U7	385	58.05	46.44	20.00	10.38	0.750	17.34	Carbon	32.71	1614.11	1915.55	2786.25	1915.55
North	U7-U8	386	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
North	U8-U9	387	47.17	37.74	20.00	10.51	0.750	17.13	Carbon	32.72	1311.99	1556.67	2264.25	1556.67
North	U9-U10	388	74.30	59.44	20.00	9.97	0.750	18.06	Carbon	32.69	2064.44	2451.80	3566.25	2451.80
North	U10-U11	389	88.48	70.79	20.00	10.13	0.750	17.76	Carbon	32.70	2459.42	2919.98	4247.25	2919.98
North	U11-U12	390	88.48	70.79	20.00	10.13	0.750	17.76	Carbon	32.70	2459.42	2919.98	4247.25	2919.98
North	U12-U13	391	91.73	73.39	20.00	10.05	0.750	17.90	Carbon	32.70	2549.37	3027.23	4403.25	3027.23
North	U13-U14	392	93.95	75.16	20.00	10.14	0.750	17.74	Carbon	32.70	2611.47	3100.45	4509.75	3100.45
North	U14-U15	393	91.73	73.39	20.00	10.05	0.750	17.90	Carbon	32.70	2549.37	3027.23	4403.25	3027.23
North	U15-U16	394	91.73	73.39	20.00	10.05	0.750	17.90	Carbon	32.70	2549.37	3027.23	4403.25	3027.23
North	U16-U17	395	85.25	68.20	20.00	10.12	0.750	17.79	Carbon	32.70	2369.44	2813.25	4092.00	2813.25
North	U17-U18	396	72.25	57.80	20.00	10.40	0.750	17.30	Carbon	32.72	2009.13	2384.25	3468.00	2384.25
North	U18-U19	397	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
North	U19-U20	398	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
North	U20-U21	399	49.00	39.20	20.00	10.54	0.750	17.07	Carbon	32.72	1362.90	1617.00	2352.00	1617.00
North	U21-U22	400	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
North	U22-U23	401	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
North	U23-U24	402	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
North	U24-U25	403	52.17	41.74	20.00	10.05	0.750	17.90	Carbon	32.70	1449.90	1721.67	2504.25	1721.67
North	U25-U26	404	52.17	41.74	20.00	10.05	0.750	17.90	Carbon	32.70	1449.90	1721.67	2504.25	1721.67
North	U26-U27	405	52.17	41.74	20.00	10.05	0.750	17.90	Carbon	32.70	1449.90	1721.67	2504.25	1721.67
North	U27-U28	406	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
North	U28-U29	407	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
North	U29-U30	408	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
North	U30-U31	409	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
North	U31-U32	410	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
North	U32-U33	411	63.52	50.81	20.00	10.40	0.750	17.31	Carbon	32.71	1766.22	2096.02	3048.75	2096.02
North	U33-U34	412	91.42	73.14	20.00	9.83	0.750	18.32	Carbon	32.68	2539.58	3016.92	4388.25	3016.92
North	U34-U35	413	101.70	81.36	20.00	10.03	0.750	17.95	Carbon	32.69	2826.28	3356.20	4881.75	3356.20
North	U35-U36	414	101.70	81.36	20.00	10.03	0.750	17.95	Carbon	32.69	2826.28	3356.20	4881.75	3356.20
North	U36-U37	415	86.80	69.44	20.00	9.85	0.750	18.28	Carbon	32.68	2411.21	2864.30	4166.25	2864.30
North	U37-U38	416	62.77	50.21	20.00	10.41	0.750	17.29	Carbon	32.72	1745.41	2071.27	3012.75	2071.27
North	U38-U39	417	58.80	47.04	20.00	9.74	0.750	18.48	Carbon	32.68	1633.02	1940.30	2822.25	1940.30
North	U39-U40	418	58.80	47.04	20.00	9.74	0.750	18.48	Carbon	32.68	1633.02	1940.30	2822.25	1940.30
North	U40-U41	419	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
North	U41-U42	420	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
North	U42-U43	421	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
North	U43-U44	422	56.30	45.04	20.00	10.12	0.750	17.78	Carbon	32.70	1564.73	1857.80	2702.25	1857.80
North	U44-U45	423	62.77	50.21	20.00	10.41	0.750	17.29	Carbon	32.72	1745.41	2071.27	3012.75	2071.27
North	U45-U46	424	62.77	50.21	20.00	10.41	0.750	17.29	Carbon	32.72	1745.41	2071.27	3012.75	2071.27

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U46-U47	425	56.30	45.04	20.00	10.12	0.750	17.78	Carbon	32.70	1564.73	1857.80	2702.25	1857.80
North	U47-U48	426	45.67	36.54	21.40	10.36	0.750	18.60	Carbon	32.67	1268.32	1507.17	2192.25	1507.17
North	U48-U49	427	42.42	33.94	22.40	10.46	0.750	19.27	Carbon	32.65	1177.20	1399.92	2036.25	1399.92
North	U49-U50	428	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
North	U50-U51	429	58.80	47.04	20.00	9.74	0.750	18.48	Carbon	32.68	1633.02	1940.30	2822.25	1940.30
North	U51-U52	430	58.80	47.04	20.00	9.74	0.750	18.48	Carbon	32.68	1633.02	1940.30	2822.25	1940.30
North	U52-U53	431	72.23	57.79	20.00	10.31	0.750	17.47	Carbon	32.71	2008.36	2383.73	3467.25	2383.73
North	U53-U54	432	113.38	90.70	20.00	9.99	0.750	18.03	Carbon	32.69	3150.39	3741.38	5442.00	3741.38
North	U54-U55	433	152.38	121.90	20.00	9.42	0.750	19.11	Carbon	32.65	4229.12	5028.38	7314.00	5028.38
North	U55-U56	434	179.88	143.90	20.00	8.68	0.750	20.74	Carbon	32.59	4982.91	5935.88	8634.00	5935.88
North	U56-U57	435	179.88	143.90	20.00	8.68	0.750	20.74	Carbon	32.59	4982.91	5935.88	8634.00	5935.88
North	U57-U58	436	149.23	119.39	20.00	9.39	0.750	19.16	Carbon	32.65	4141.73	4924.73	7163.25	4924.73
North	U58-U59	437	110.23	88.19	20.00	9.97	0.750	18.05	Carbon	32.69	3063.03	3637.73	5291.25	3637.73
North	U59-U60	438	65.73	52.59	20.00	10.31	0.750	17.45	Carbon	32.71	1827.66	2169.23	3155.25	2169.23
North	U60-U61	439	45.70	36.56	20.00	10.36	0.750	17.38	Carbon	32.71	1270.60	1507.95	2193.38	1507.95
North	U61-U62	440	39.17	31.34	21.50	10.32	0.750	18.76	Carbon	32.67	1087.63	1292.67	1880.25	1292.67
North	U62-U63	441	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
North	U63-U64	442	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
North	U64-U65	443	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
North	U65-U66	444	48.61	38.89	20.00	10.40	0.750	17.30	Carbon	32.72	1351.72	1604.11	2333.25	1604.11
North	U66-U67	445	50.67	40.54	20.00	10.09	0.750	17.84	Carbon	32.70	1408.30	1672.17	2432.25	1672.17
North	U67-U68	446	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
North	U68-U69	447	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
North	U69-U70	448	56.30	45.04	20.00	10.12	0.750	17.78	Carbon	32.70	1564.73	1857.80	2702.25	1857.80
North	U70-U71	449	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
North	U71-U72	450	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
North	U72-U73	451	42.42	33.94	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	2036.25	1399.92
North	U73-U74	452	57.78	46.23	20.00	10.50	0.750	17.15	Carbon	32.72	1607.03	1906.78	2773.50	1906.78
North	U74-U75	453	45.42	36.34	20.00	10.57	0.750	17.03	Carbon	32.72	1263.43	1498.92	2180.25	1498.92
North	U75-U76	454	68.55	54.84	20.00	10.67	0.750	16.88	Carbon	32.73	1906.96	2262.05	3290.25	2262.05
North	U76-U77	455	68.55	54.84	20.00	10.67	0.750	16.88	Carbon	32.73	1906.96	2262.05	3290.25	2262.05
North	U77-U78	456	100.94	80.75	20.00	10.49	0.750	17.17	Carbon	32.72	2807.25	3330.94	4845.00	3330.94
North	U78-U79	457	140.69	112.55	20.00	10.56	0.750	17.04	Carbon	32.72	3913.25	4642.69	6753.00	4642.69
North	U79-U80	458	166.38	133.10	20.00	10.77	0.750	16.71	Carbon	32.73	4629.28	5490.38	7986.00	5490.38
North	U80-U81	459	189.13	151.30	20.00	10.20	0.750	17.64	Carbon	32.70	5257.37	6241.13	9078.00	6241.13
North	U81-U82	460	181.88	145.50	20.00	10.32	0.750	17.45	Carbon	32.71	5056.82	6001.88	8730.00	6001.88
North	U82-U83	461	181.88	145.50	20.00	10.32	0.750	17.45	Carbon	32.71	5056.82	6001.88	8730.00	6001.88
North	U83-U84	462	168.03	134.43	20.00	10.23	0.750	17.60	Carbon	32.71	4671.20	5545.03	8065.50	5545.03
North	U84-U85	463	139.28	111.43	20.00	10.72	0.750	16.80	Carbon	32.73	3875.06	4596.28	6685.50	4596.28
North	U85-U86	464	129.48	103.59	20.00	10.44	0.750	17.25	Carbon	32.72	3600.89	4272.98	6215.25	4272.98
North	U86-U87	465	129.48	103.59	20.00	10.44	0.750	17.25	Carbon	32.72	3600.89	4272.98	6215.25	4272.98
North	U87-U88	466	133.23	106.59	20.00	10.49	0.750	17.16	Carbon	32.72	3705.50	4396.73	6395.25	4396.73
North	U88-U89	467	133.23	106.59	20.00	10.49	0.750	17.16	Carbon	32.72	3705.50	4396.73	6395.25	4396.73
North	U89-U90	468	133.23	106.59	20.00	10.49	0.750	17.16	Carbon	32.72	3705.50	4396.73	6395.25	4396.73
North	U90-U91	469	133.23	106.59	20.00	10.49	0.750	17.16	Carbon	32.72	3705.50	4396.73	6395.25	4396.73
North	U91-U92	470	133.23	106.59	20.00	10.49	0.750	17.16	Carbon	32.72	3705.50	4396.73	6395.25	4396.73
North	U92-U93	471	121.98	97.59	20.00	10.32	0.750	17.44	Carbon	32.71	3391.67	4025.48	5855.25	4025.48
North	U93-U94	472	97.23	77.79	20.00	10.59	0.750	17.00	Carbon	32.72	2704.69	3208.73	4667.25	3208.73
North	U94-U95	473	61.05	48.84	20.00	10.46	0.750	17.20	Carbon	32.72	1697.76	2014.55	2930.25	2014.55
North	U95-U96	474	45.42	36.34	20.00	10.57	0.750	17.03	Carbon	32.72	1263.43	1498.92	2180.25	1498.92
North	U96-U97	475	61.05	48.84	20.00	10.46	0.750	17.20	Carbon	32.72	1697.76	2014.55	2930.25	2014.55
North	U97-U98	476	93.00	74.40	20.00	10.43	0.750	17.25	Carbon	32.72	2586.27	3069.00	4464.00	3069.00
North	U98-U99	477	111.06	88.85	20.00	10.37	0.750	17.36	Carbon	32.71	3088.25	3665.06	5331.00	3665.06

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L / $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U99-U100	478	118.56	94.85	20.00	10.48	0.750	17.18	Carbon	32.72	3297.38	3912.56	5691.00	3912.56
North	U100-U101	479	118.56	94.85	20.00	10.48	0.750	17.18	Carbon	32.72	3297.38	3912.56	5691.00	3912.56
North	U101-U102	480	111.06	88.85	20.00	10.37	0.750	17.36	Carbon	32.71	3088.25	3665.06	5331.00	3665.06
North	U102-U103	481	93.00	74.40	20.00	10.43	0.750	17.25	Carbon	32.72	2586.27	3069.00	4464.00	3069.00
North	U103-U104	482	61.05	48.84	20.00	10.46	0.750	17.20	Carbon	32.72	1697.76	2014.55	2930.25	2014.55
North	U104-U105	483	60.42	48.34	20.00	11.01	0.750	16.35	Silicon	44.53	2286.85	2718.98	3383.63	2718.98
North	U105-U106	484	61.05	48.84	20.00	10.46	0.750	17.20	Silicon	44.48	2307.89	2747.11	3418.63	2747.11
North	U106-U107	485	105.30	84.24	20.00	10.65	0.750	16.90	Silicon	44.49	3982.37	4738.36	5896.63	4738.36
North	U107-U108	486	133.23	106.59	20.00	10.49	0.750	17.16	Silicon	44.48	5037.23	5995.55	7461.13	5995.55
North	U108-U109	487	144.48	115.59	20.00	10.65	0.750	16.91	Silicon	44.49	5464.42	6501.80	8091.13	6501.80
North	U109-U110	488	140.73	112.59	20.00	10.59	0.750	16.99	Silicon	44.49	5322.02	6333.05	7881.13	6333.05
North	U110-U111	489	140.73	112.59	21.30	10.59	0.750	18.09	Silicon	44.42	5313.82	6333.05	7881.13	6333.05
North	U111-U112	490	140.73	112.59	20.00	10.59	0.750	16.99	Silicon	44.49	5322.02	6333.05	7881.13	6333.05
North	U112-U113	491	140.73	112.59	20.00	10.59	0.750	16.99	Silicon	44.49	5322.02	6333.05	7881.13	6333.05
North	U113-U114	492	122.44	97.95	20.00	10.73	0.750	16.77	Silicon	44.50	4631.48	5509.69	6856.50	5509.69
North	U114-U115	493	108.44	86.75	20.00	10.63	0.750	16.93	Silicon	44.49	4101.00	4879.69	6072.50	4879.69
North	U115-U116	494	118.58	94.86	20.00	10.76	0.750	16.73	Silicon	44.51	4485.75	5336.02	6640.38	5336.02
North	U116-U117	495	139.20	111.36	20.00	10.59	0.750	17.00	Silicon	44.49	5264.07	6264.14	7795.38	6264.14
North	U117-U118	496	151.23	120.99	20.00	10.61	0.750	16.97	Silicon	44.49	5719.27	6805.55	8469.13	6805.55
North	U118-U119	497	151.23	120.99	20.00	10.61	0.750	16.97	Silicon	44.49	5719.27	6805.55	8469.13	6805.55
North	U119-U120	498	159.98	127.99	20.00	10.45	0.750	17.23	Silicon	44.47	6047.98	7199.30	8959.13	7199.30
North	U120-U121	499	159.98	127.99	20.00	10.45	0.750	17.23	Silicon	44.47	6047.98	7199.30	8959.13	7199.30
North	U121-U122	500	147.48	117.99	20.00	10.56	0.750	17.04	Silicon	44.49	5576.88	6636.80	8259.13	6636.80
North	U122-U123	501	118.23	94.59	20.00	10.26	0.750	17.54	Silicon	44.46	4467.79	5320.55	6621.13	5320.55
North	U123-U124	502	87.30	69.84	20.00	11.06	0.750	16.27	Silicon	44.53	3304.36	3928.36	4888.63	3928.36
North	U124-U125	503	61.05	48.84	20.00	10.46	0.750	17.20	Silicon	44.48	2307.89	2747.11	3418.63	2747.11
North	U125-U126	504	52.92	42.34	24.20	10.81	0.750	20.15	Silicon	44.28	1991.97	2381.48	2963.63	2381.48
South	U0-L0	505	46.53	37.23	33.30	3.44	0.750	87.08	Carbon	25.79	1019.95	1535.54	2233.52	1535.54
South	U1-L1	506	53.53	42.83	26.50	3.53	0.750	67.64	Carbon	28.65	1303.54	1766.54	2569.52	1766.54
South	U2-L2	507	40.72	32.58	21.10	3.31	0.750	57.32	Carbon	29.87	1034.08	1343.83	1954.67	1343.83
South	U3-L3	508	28.97	23.17	17.60	2.76	0.750	57.34	Carbon	29.87	735.53	955.91	1390.42	955.91
South	U4-L4	509	28.97	23.17	15.30	2.76	0.750	49.84	Carbon	30.64	754.34	955.91	1390.42	955.91
South	U5-L5	510	21.57	17.25	15.00	1.96	0.750	68.92	Carbon	28.48	522.14	711.73	1035.25	711.73
South	U6-L6	511	37.78	30.23	15.60	3.29	0.750	42.71	Carbon	31.26	1004.05	1246.79	1813.52	1246.79
South	U7-L7	512	51.25	41.00	18.62	6.13	0.750	27.35	Carbon	32.29	1406.57	1691.25	2460.00	1691.25
South	U8-L8	513	57.03	45.63	23.60	3.56	0.750	59.67	Carbon	29.61	1435.58	1882.04	2737.52	1882.04
South	U9-L9	514	64.03	51.23	30.50	3.62	0.750	75.92	Carbon	27.52	1497.67	2113.04	3073.52	2113.04
South	U10-L10	515	64.75	51.80	40.00	6.81	0.750	52.85	Carbon	30.34	1670.02	2136.75	3108.00	2136.75
South	U11-L11	516	50.69	40.55	30.50	6.10	0.750	45.00	Carbon	31.07	1338.80	1672.69	2433.00	1672.69
South	U12-L12	517	46.63	37.30	23.50	3.36	0.750	63.02	Carbon	29.22	1158.12	1538.64	2238.02	1538.64
South	U13-L13	518	37.78	30.23	19.00	3.29	0.750	52.02	Carbon	30.43	977.12	1246.79	1813.52	1246.79
South	U14-L14	519	28.97	23.17	16.20	2.76	0.750	52.77	Carbon	30.35	747.30	955.91	1390.42	955.91
South	U15-L15	520	21.57	17.25	15.50	1.96	0.750	71.22	Carbon	28.18	516.53	711.73	1035.25	711.73
South	U16-L16	521	28.97	23.17	16.50	2.76	0.750	53.75	Carbon	30.25	744.86	955.91	1390.42	955.91
South	U17-L17	522	37.78	30.23	20.30	3.29	0.750	55.58	Carbon	30.06	965.42	1246.79	1813.52	1246.79
South	U18-L18	523	46.63	37.30	26.50	3.36	0.750	71.07	Carbon	28.20	1117.45	1538.64	2238.02	1538.64
South	U19-L19	524	50.69	40.55	36.00	6.10	0.750	53.11	Carbon	30.32	1306.18	1672.69	2433.00	1672.69
South	U20-L20	525	64.75	51.80	48.50	6.81	0.750	64.08	Carbon	29.09	1601.27	2136.75	3108.00	2136.75
South	U21-L21	526	46.25	37.00	36.00	6.16	0.750	52.56	Carbon	30.37	1193.99	1526.25	2220.00	1526.25
South	U22-L22	527	48.28	38.63	26.50	3.47	0.750	68.82	Carbon	28.49	1169.39	1593.29	2317.52	1593.29
South	U23-L23	528	40.72	32.58	20.30	3.31	0.750	55.15	Carbon	30.11	1042.13	1343.83	1954.67	1343.83
South	U24-L24	529	28.97	23.17	17.00	2.76	0.750	55.38	Carbon	30.08	740.69	955.91	1390.42	955.91
South	U25-L25	530	21.57	17.25	16.50	1.96	0.750	75.81	Carbon	27.53	504.75	711.73	1035.25	711.73

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	U26-L26	531	28.97	23.17	17.80	2.76	0.750	57.99	Carbon	29.80	733.77	955.91	1390.42	955.91
South	U27-L27	532	37.78	30.23	22.20	3.29	0.750	60.78	Carbon	29.49	946.93	1246.79	1813.52	1246.79
South	U28-L28	533	46.25	37.00	29.54	6.16	0.750	43.13	Carbon	31.23	1227.75	1526.25	2220.00	1526.25
South	U29-L29	534	48.75	39.00	41.00	6.14	0.750	60.05	Carbon	29.57	1225.31	1608.75	2340.00	1608.75
South	U30-L30	535	102.00	81.60	57.00	7.54	0.750	68.02	Carbon	28.60	2479.54	3366.00	4896.00	3366.00
South	U31-L31	536	58.25	46.60	41.00	7.83	0.750	47.14	Carbon	30.89	1529.27	1922.25	2796.00	1922.25
South	U32-L32	537	53.75	43.00	29.50	6.90	0.750	38.47	Carbon	31.59	1443.36	1773.75	2580.00	1773.75
South	U33-L33	538	46.25	37.00	22.30	6.16	0.750	32.56	Carbon	31.99	1257.67	1526.25	2220.00	1526.25
South	U34-L34	539	28.97	23.17	18.30	2.76	0.750	59.62	Carbon	29.62	729.29	955.91	1390.42	955.91
South	U35-L35	540	23.64	18.91	17.50	1.97	0.750	80.13	Carbon	26.89	540.30	780.01	1134.56	780.01
South	U36-L36	541	43.70	34.96	19.60	3.34	0.750	52.88	Carbon	30.34	1126.91	1442.00	2097.46	1442.00
South	U37-L37	542	48.75	39.00	24.30	6.14	0.750	35.59	Carbon	31.80	1317.51	1608.75	2340.00	1608.75
South	U38-L38	543	53.75	43.00	34.50	6.90	0.750	44.99	Carbon	31.07	1419.71	1773.75	2580.00	1773.75
South	U39-L39	544	59.25	47.40	49.00	7.63	0.750	57.82	Carbon	29.82	1501.80	1955.25	2844.00	1955.25
South	U40-L40	545	108.13	86.50	70.00	8.21	0.750	76.78	Carbon	27.39	2517.53	3568.13	5190.00	3568.13
South	U41-L41	546	53.25	42.60	49.00	7.70	0.750	57.27	Carbon	29.88	1352.46	1757.25	2556.00	1757.25
South	U42-L42	547	48.75	39.00	34.50	6.14	0.750	50.53	Carbon	30.57	1266.80	1608.75	2340.00	1608.75
South	U43-L43	548	46.63	37.30	25.00	3.36	0.750	67.04	Carbon	28.72	1138.40	1538.64	2238.02	1538.64
South	U44-L44	549	28.97	23.17	19.80	2.76	0.750	64.50	Carbon	29.04	715.08	955.91	1390.42	955.91
South	U45-L45	550	25.39	20.31	18.50	1.98	0.750	84.28	Carbon	26.24	566.33	837.82	1218.64	837.82
South	U46-L46	551	28.97	23.17	20.00	2.76	0.750	65.15	Carbon	28.96	713.11	955.91	1390.42	955.91
South	U47-L47	552	46.63	37.30	25.80	3.36	0.750	69.19	Carbon	28.45	1127.38	1538.64	2238.02	1538.64
South	U48-L48	553	51.25	41.00	35.84	6.13	0.750	52.64	Carbon	30.36	1322.75	1691.25	2460.00	1691.25
South	U49-L49	554	56.75	45.40	52.00	6.18	0.750	75.74	Carbon	27.54	1328.64	1872.75	2724.00	1872.75
South	U50-L50	555	110.16	88.13	74.00	8.25	0.750	80.74	Carbon	26.80	2509.22	3635.16	5287.50	3635.16
South	U51-L51	556	73.34	58.68	54.50	6.08	0.750	80.67	Carbon	26.81	1671.35	2420.34	3520.50	2420.34
South	U52-L52	557	63.31	50.65	40.00	6.06	0.750	59.38	Carbon	29.65	1595.44	2089.31	3039.00	2089.31
South	U53-L53	558	67.78	54.23	30.00	3.93	0.750	68.66	Carbon	28.52	1642.95	2236.79	3253.52	2236.79
South	U54-L54	559	46.63	37.30	24.00	3.36	0.750	64.36	Carbon	29.06	1151.68	1538.64	2238.02	1538.64
South	U55-L55	560	28.97	23.17	20.00	2.76	0.750	65.15	Carbon	28.96	713.11	955.91	1390.42	955.91
South	U56-L56	561	27.44	21.95	19.00	1.99	0.750	86.04	Carbon	25.96	605.37	905.39	1316.93	905.39
South	U57-L57	562	34.85	27.88	20.00	2.79	0.750	64.45	Carbon	29.05	860.51	1150.07	1672.83	1150.07
South	U58-L58	563	57.03	45.63	24.00	3.56	0.750	60.68	Carbon	29.50	1429.96	1882.04	2737.52	1882.04
South	U59-L59	564	73.78	59.03	30.00	3.99	0.750	67.62	Carbon	28.65	1796.80	2434.79	3541.52	2434.79
South	U60-L60	565	65.81	52.65	40.00	6.05	0.750	59.48	Carbon	29.63	1657.79	2171.81	3159.00	2171.81
South	U61-L61	566	68.34	54.68	55.00	6.10	0.750	81.14	Carbon	26.74	1553.28	2255.34	3280.50	2255.34
South	U62-L62	567	102.69	82.15	76.10	8.30	0.750	82.55	Carbon	26.52	2314.67	3388.69	4929.00	3388.69
South	U63-L63	568	59.25	47.40	55.80	6.16	0.750	81.48	Carbon	26.68	1343.91	1955.25	2844.00	1955.25
South	U64-L64	569	54.25	43.40	41.30	6.20	0.750	59.98	Carbon	29.58	1363.89	1790.25	2604.00	1790.25
South	U65-L65	570	53.78	43.03	31.00	3.73	0.750	74.73	Carbon	27.69	1265.73	1774.79	2581.52	1774.79
South	U66-L66	571	43.70	34.96	24.50	3.34	0.750	66.10	Carbon	28.84	1071.34	1442.00	2097.46	1442.00
South	U67-L67	572	28.97	23.17	20.50	2.76	0.750	66.78	Carbon	28.76	708.07	955.91	1390.42	955.91
South	U68-L68	573	28.97	23.17	19.80	2.76	0.750	64.50	Carbon	29.04	715.08	955.91	1390.42	955.91
South	U69-L69	574	28.97	23.17	20.80	2.76	0.750	67.76	Carbon	28.63	704.99	955.91	1390.42	955.91
South	U70-L70	575	43.70	34.96	25.10	3.34	0.750	67.72	Carbon	28.64	1063.69	1442.00	2097.46	1442.00
South	U71-L71	576	53.75	43.00	32.03	6.11	0.750	47.16	Carbon	30.88	1411.02	1773.75	2580.00	1773.75
South	U72-L72	577	54.25	43.40	42.60	6.20	0.750	61.87	Carbon	29.36	1353.80	1790.25	2604.00	1790.25
South	U73-L73	578	59.00	47.20	57.40	6.99	0.750	73.92	Carbon	27.80	1394.32	1947.00	2832.00	1947.00
South	U74-L74	579	122.53	98.03	78.30	8.17	0.750	86.24	Carbon	25.93	2700.13	4043.53	5881.50	4043.53
South	U75-L75	580	79.19	63.35	58.00	8.37	0.750	62.38	Carbon	29.30	1972.11	2613.19	3801.00	2613.19
South	U76-L76	581	75.69	60.55	43.90	7.63	0.750	51.80	Carbon	30.45	1958.86	2497.69	3633.00	2497.69
South	U77-L77	582	82.59	66.08	33.90	6.81	0.750	44.79	Carbon	31.09	2182.81	2725.59	3964.50	2725.59
South	U78-L78	583	71.53	57.23	27.20	6.11	0.750	40.06	Carbon	31.47	1913.65	2360.53	3433.50	2360.53

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	U79-L79	584	56.25	45.00	23.40	6.10	0.750	34.54	Carbon	31.87	1523.57	1856.25	2700.00	1856.25
South	U80-L80	585	49.78	39.83	21.30	3.65	0.750	52.48	Carbon	30.38	1285.53	1642.79	2389.52	1642.79
South	U81-L81	586	28.97	23.17	20.50	2.76	0.750	66.78	Carbon	28.76	708.07	955.91	1390.42	955.91
South	U82-L82	587	28.97	23.17	20.30	2.76	0.750	66.13	Carbon	28.84	710.10	955.91	1390.42	955.91
South	U83-L83	588	48.28	38.63	20.80	3.47	0.750	54.02	Carbon	30.22	1240.38	1593.29	2317.52	1593.29
South	U84-L84	589	60.63	48.50	22.20	3.69	0.750	54.20	Carbon	30.21	1556.54	2000.64	2910.02	2000.64
South	U85-L85	590	80.22	64.18	24.50	6.06	0.750	36.41	Carbon	31.74	2164.15	2647.22	3850.50	2647.22
South	U86-L86	591	80.63	64.50	28.70	6.07	0.750	42.58	Carbon	31.28	2143.32	2660.63	3870.00	2660.63
South	U87-L87	592	77.09	61.68	35.50	6.84	0.750	46.69	Carbon	30.93	2026.61	2544.09	3700.50	2544.09
South	U88-L88	593	67.25	53.80	46.00	7.72	0.750	53.65	Carbon	30.26	1729.84	2219.25	3228.00	2219.25
South	U89-L89	594	68.06	54.45	60.20	8.29	0.750	65.38	Carbon	28.93	1673.91	2246.06	3267.00	2246.06
South	U90-L90	595	77.81	62.25	80.80	8.19	0.750	88.75	Carbon	25.51	1687.10	2567.81	3735.00	2567.81
South	U91-L91	596	41.25	33.00	57.00	6.21	0.750	82.63	Carbon	26.50	929.33	1361.25	1980.00	1361.25
South	U92-L92	597	43.75	35.00	42.00	6.18	0.750	61.12	Carbon	29.45	1095.06	1443.75	2100.00	1443.75
South	U93-L93	598	48.75	39.00	31.50	6.14	0.750	46.14	Carbon	30.98	1283.54	1608.75	2340.00	1608.75
South	U94-L94	599	64.13	51.30	24.00	3.56	0.750	60.74	Carbon	29.49	1607.44	2116.14	3078.02	2116.14
South	U95-L95	600	62.38	49.90	20.00	3.54	0.750	50.82	Carbon	30.54	1619.36	2058.39	2994.02	2058.39
South	U96-L96	601	89.81	71.85	18.05	4.82	0.750	33.72	Carbon	31.92	2436.69	2963.81	4311.00	2963.81
South	U97-L97	602	43.70	34.96	17.30	3.34	0.750	46.67	Carbon	30.93	1148.74	1442.00	2097.46	1442.00
South	U98-L98	603	34.85	27.88	16.70	2.79	0.750	53.82	Carbon	30.24	895.95	1150.07	1672.83	1150.07
South	U99-L99	604	27.44	21.95	16.30	1.99	0.750	73.81	Carbon	27.82	648.73	905.39	1316.93	905.39
South	U100-L100	605	23.64	18.91	16.00	1.97	0.750	73.26	Carbon	27.89	560.44	780.01	1134.56	780.01
South	U101-L101	606	27.44	21.95	15.90	1.99	0.750	72.00	Carbon	28.07	654.59	905.39	1316.93	905.39
South	U102-L102	607	34.85	27.88	16.00	2.79	0.750	51.56	Carbon	30.47	902.65	1150.07	1672.83	1150.07
South	U103-L103	608	43.70	34.96	16.30	3.34	0.750	43.98	Carbon	31.16	1157.38	1442.00	2097.46	1442.00
South	U104-L104	609	54.94	43.95	16.60	6.10	0.750	24.48	Carbon	32.43	1514.39	1812.94	2637.00	1812.94
South	U105-L105	610	58.78	47.03	18.10	3.58	0.750	45.57	Carbon	31.03	1550.15	1939.79	2821.52	1939.79
South	U106-L106	611	60.53	48.43	22.10	3.59	0.750	55.41	Carbon	30.08	1547.63	1997.54	2905.52	1997.54
South	U107-L107	612	49.25	39.40	28.70	6.24	0.750	41.42	Carbon	31.37	1313.15	1625.25	2364.00	1625.25
South	U108-L108	613	41.25	33.00	38.20	6.21	0.750	55.38	Carbon	30.08	1054.78	1361.25	1980.00	1361.25
South	U109-L109	614	42.75	34.20	54.20	7.03	0.750	69.37	Carbon	28.42	1032.83	1410.75	2052.00	1410.75
South	U110-L110	615	56.00	44.80	77.00	8.88	0.750	78.02	Carbon	27.21	1295.18	1848.00	2688.00	1848.00
South	U111-L111	616	64.25	51.40	58.20	7.75	0.750	67.58	Carbon	28.66	1564.94	2120.25	3084.00	2120.25
South	U112-L112	617	69.44	55.55	44.50	6.90	0.750	58.08	Carbon	29.79	1758.35	2291.44	3333.00	2291.44
South	U113-L113	618	77.69	62.15	35.10	6.84	0.750	46.18	Carbon	30.97	2045.21	2563.69	3729.00	2563.69
South	U114-L114	619	81.13	64.90	29.20	6.92	0.750	37.98	Carbon	31.63	2180.95	2677.13	3894.00	2677.13
South	U115-L115	620	81.13	64.90	25.90	6.92	0.750	33.69	Carbon	31.92	2201.13	2677.13	3894.00	2677.13
South	U116-L116	621	64.63	51.70	24.30	3.75	0.750	58.31	Carbon	29.77	1635.09	2132.64	3102.02	2132.64
South	U117-L117	622	55.78	44.63	23.60	3.77	0.750	56.36	Carbon	29.98	1421.42	1840.79	2677.52	1840.79
South	U118-L118	623	28.97	23.17	23.10	2.76	0.750	75.25	Carbon	27.61	679.90	955.91	1390.42	955.91
South	U119-L119	624	28.97	23.17	23.00	2.76	0.750	74.93	Carbon	27.66	681.04	955.91	1390.42	955.91
South	U120-L120	625	37.78	30.23	23.60	3.29	0.750	64.61	Carbon	29.03	932.25	1246.79	1813.52	1246.79
South	U121-L121	626	40.72	32.58	25.30	3.31	0.750	68.73	Carbon	28.51	986.73	1343.83	1954.67	1343.83
South	U122-L122	627	57.31	45.85	28.60	6.20	0.750	41.50	Carbon	31.36	1527.79	1891.31	2751.00	1891.31
South	U123-L123	628	81.69	65.35	33.70	7.58	0.750	40.01	Carbon	31.48	2185.58	2695.69	3921.00	2695.69
South	U124-L124	629	85.13	68.10	41.00	7.67	0.750	48.13	Carbon	30.80	2228.31	2809.13	4086.00	2809.13
South	U125-L125	630	89.13	71.30	50.90	8.40	0.750	54.52	Carbon	30.17	2285.75	2941.13	4278.00	2941.13
South	U126-L126	631	108.06	86.45	65.50	8.25	0.750	71.48	Carbon	28.14	2584.76	3566.06	5187.00	3566.06
North	U0-L0	632	46.53	37.23	33.30	3.44	0.750	87.08	Carbon	25.79	1019.95	1535.54	2233.52	1535.54
North	U1-L1	633	53.53	42.83	26.50	3.53	0.750	67.64	Carbon	28.65	1303.54	1766.54	2569.52	1766.54
North	U2-L2	634	40.72	32.58	21.10	3.31	0.750	57.32	Carbon	29.87	1034.08	1343.83	1954.67	1343.83
North	U3-L3	635	28.97	23.17	17.60	2.76	0.750	57.34	Carbon	29.87	735.53	955.91	1390.42	955.91
North	U4-L4	636	28.97	23.17	15.30	2.76	0.750	49.84	Carbon	30.64	754.34	955.91	1390.42	955.91

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L / $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U5-L5	637	21.57	17.25	15.00	1.96	0.750	68.92	Carbon	28.48	522.14	711.73	1035.25	711.73
North	U6-L6	638	37.78	30.23	15.60	3.29	0.750	42.71	Carbon	31.26	1004.05	1246.79	1813.52	1246.79
North	U7-L7	639	51.25	41.00	18.62	6.13	0.750	27.35	Carbon	32.29	1406.57	1691.25	2460.00	1691.25
North	U8-L8	640	57.03	45.63	23.60	3.56	0.750	59.67	Carbon	29.61	1435.58	1882.04	2737.52	1882.04
North	U9-L9	641	64.03	51.23	30.50	3.62	0.750	75.92	Carbon	27.52	1497.67	2113.04	3073.52	2113.04
North	U10-L10	642	64.75	51.80	40.00	6.81	0.750	52.85	Carbon	30.34	1670.02	2136.75	3108.00	2136.75
North	U11-L11	643	50.69	40.55	30.50	6.10	0.750	45.00	Carbon	31.07	1338.80	1672.69	2433.00	1672.69
North	U12-L12	644	46.63	37.30	23.50	3.36	0.750	63.02	Carbon	29.22	1158.12	1538.64	2238.02	1538.64
North	U13-L13	645	37.78	30.23	19.00	3.29	0.750	52.02	Carbon	30.43	977.12	1246.79	1813.52	1246.79
North	U14-L14	646	28.97	23.17	16.20	2.76	0.750	52.77	Carbon	30.35	747.30	955.91	1390.42	955.91
North	U15-L15	647	21.57	17.25	15.50	1.96	0.750	71.22	Carbon	28.18	516.53	711.73	1035.25	711.73
North	U16-L16	648	28.97	23.17	16.50	2.76	0.750	53.75	Carbon	30.25	744.86	955.91	1390.42	955.91
North	U17-L17	649	37.78	30.23	20.30	3.29	0.750	55.58	Carbon	30.06	965.42	1246.79	1813.52	1246.79
North	U18-L18	650	46.63	37.30	26.50	3.36	0.750	71.07	Carbon	28.20	1117.45	1538.64	2238.02	1538.64
North	U19-L19	651	50.69	40.55	36.00	6.10	0.750	53.11	Carbon	30.32	1306.18	1672.69	2433.00	1672.69
North	U20-L20	652	64.75	51.80	48.50	6.81	0.750	64.08	Carbon	29.09	1601.27	2136.75	3108.00	2136.75
North	U21-L21	653	46.25	37.00	36.00	6.16	0.750	52.56	Carbon	30.37	1193.99	1526.25	2220.00	1526.25
North	U22-L22	654	48.28	38.63	26.50	3.47	0.750	68.82	Carbon	28.49	1169.39	1593.29	2317.52	1593.29
North	U23-L23	655	40.72	32.58	20.30	3.31	0.750	55.15	Carbon	30.11	1042.13	1343.83	1954.67	1343.83
North	U24-L24	656	28.97	23.17	17.00	2.76	0.750	55.38	Carbon	30.08	740.69	955.91	1390.42	955.91
North	U25-L25	657	21.57	17.25	16.50	1.96	0.750	75.81	Carbon	27.53	504.75	711.73	1035.25	711.73
North	U26-L26	658	28.97	23.17	17.80	2.76	0.750	57.99	Carbon	29.80	733.77	955.91	1390.42	955.91
North	U27-L27	659	37.78	30.23	22.20	3.29	0.750	60.78	Carbon	29.49	946.93	1246.79	1813.52	1246.79
North	U28-L28	660	46.25	37.00	29.54	6.16	0.750	43.13	Carbon	31.23	1227.75	1526.25	2220.00	1526.25
North	U29-L29	661	48.75	39.00	41.00	6.14	0.750	60.05	Carbon	29.57	1225.31	1608.75	2340.00	1608.75
North	U30-L30	662	102.00	81.60	57.00	7.54	0.750	68.02	Carbon	28.60	2479.54	3366.00	4896.00	3366.00
North	U31-L31	663	58.25	46.60	41.00	7.83	0.750	47.14	Carbon	30.89	1529.27	1922.25	2796.00	1922.25
North	U32-L32	664	53.75	43.00	29.50	6.90	0.750	38.47	Carbon	31.59	1443.36	1773.75	2580.00	1773.75
North	U33-L33	665	46.25	37.00	22.30	6.16	0.750	32.56	Carbon	31.99	1257.67	1526.25	2220.00	1526.25
North	U34-L34	666	28.97	23.17	18.30	2.76	0.750	59.62	Carbon	29.62	729.29	955.91	1390.42	955.91
North	U35-L35	667	23.64	18.91	17.50	1.97	0.750	80.13	Carbon	26.89	540.30	780.01	1134.56	780.01
North	U36-L36	668	43.70	34.96	19.60	3.34	0.750	52.88	Carbon	30.34	1126.91	1442.00	2097.46	1442.00
North	U37-L37	669	48.75	39.00	24.30	6.14	0.750	35.59	Carbon	31.80	1317.51	1608.75	2340.00	1608.75
North	U38-L38	670	53.75	43.00	34.50	6.90	0.750	44.99	Carbon	31.07	1419.71	1773.75	2580.00	1773.75
North	U39-L39	671	59.25	47.40	49.00	7.63	0.750	57.82	Carbon	29.82	1501.80	1955.25	2844.00	1955.25
North	U40-L40	672	108.13	86.50	70.00	8.21	0.750	76.78	Carbon	27.39	2517.53	3568.13	5190.00	3568.13
North	U41-L41	673	53.25	42.60	49.00	7.70	0.750	57.27	Carbon	29.88	1352.46	1757.25	2556.00	1757.25
North	U42-L42	674	48.75	39.00	34.50	6.14	0.750	50.53	Carbon	30.57	1266.80	1608.75	2340.00	1608.75
North	U43-L43	675	46.63	37.30	25.00	3.36	0.750	67.04	Carbon	28.72	1138.40	1538.64	2238.02	1538.64
North	U44-L44	676	28.97	23.17	19.80	2.76	0.750	64.50	Carbon	29.04	715.08	955.91	1390.42	955.91
North	U45-L45	677	25.39	20.31	18.50	1.98	0.750	84.28	Carbon	26.24	566.33	837.82	1218.64	837.82
North	U46-L46	678	28.97	23.17	20.00	2.76	0.750	65.15	Carbon	28.96	713.11	955.91	1390.42	955.91
North	U47-L47	679	46.63	37.30	25.70	3.36	0.750	68.92	Carbon	28.48	1128.77	1538.64	2238.02	1538.64
North	U48-L48	680	48.75	39.00	35.86	6.14	0.750	52.52	Carbon	30.38	1258.71	1608.75	2340.00	1608.75
North	U49-L49	681	53.25	42.60	52.00	7.70	0.750	60.77	Carbon	29.49	1334.64	1757.25	2556.00	1757.25
North	U50-L50	682	128.13	102.50	74.00	8.14	0.750	81.80	Carbon	26.64	2900.79	4228.13	6150.00	4228.13
North	U51-L51	683	79.19	63.35	54.50	8.37	0.750	58.61	Carbon	29.73	2001.27	2613.19	3801.00	2613.19
North	U52-L52	684	75.69	60.55	40.00	7.63	0.750	47.19	Carbon	30.88	1986.74	2497.69	3633.00	2497.69
North	U53-L53	685	74.94	59.95	30.00	6.86	0.750	39.37	Carbon	31.53	2008.09	2472.94	3597.00	2472.94
North	U54-L54	686	64.25	51.40	24.00	6.13	0.750	35.21	Carbon	31.82	1737.82	2120.25	3084.00	2120.25
North	U55-L55	687	34.85	27.88	20.00	2.79	0.750	64.45	Carbon	29.05	860.51	1150.07	1672.83	1150.07
North	U56-L56	688	28.97	23.17	19.00	2.76	0.750	61.90	Carbon	29.36	722.80	955.91	1390.42	955.91
North	U57-L57	689	37.78	30.23	20.00	3.29	0.750	54.76	Carbon	30.15	968.19	1246.79	1813.52	1246.79

Calculations For: ***CUY-2-1441 Main Truss, Member Capacities***

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L / $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U58-L58	690	68.69	54.95	24.00	6.11	0.750	35.33	Carbon	31.81	1857.35	2266.69	3297.00	2266.69
North	U59-L59	691	78.38	62.70	30.00	6.94	0.750	38.91	Carbon	31.56	2102.47	2586.38	3762.00	2586.38
North	U60-L60	692	78.69	62.95	40.00	7.60	0.750	47.35	Carbon	30.87	2064.55	2596.69	3777.00	2596.69
North	U61-L61	693	81.69	65.35	55.00	7.58	0.750	65.31	Carbon	28.94	2009.66	2695.69	3921.00	2695.69
North	U62-L62	694	115.13	92.10	76.10	8.21	0.750	83.42	Carbon	26.38	2581.49	3799.13	5526.00	3799.13
North	U63-L63	695	55.25	44.20	55.80	7.87	0.750	63.79	Carbon	29.13	1368.00	1823.25	2652.00	1823.25
North	U64-L64	696	50.75	40.60	41.30	7.08	0.750	52.47	Carbon	30.38	1310.57	1674.75	2436.00	1674.75
North	U65-L65	697	53.78	43.03	31.00	3.73	0.750	74.73	Carbon	27.69	1265.73	1774.79	2581.52	1774.79
North	U66-L66	698	43.70	34.96	24.50	3.34	0.750	66.10	Carbon	28.84	1071.34	1442.00	2097.46	1442.00
North	U67-L67	699	28.97	23.17	20.50	2.76	0.750	66.78	Carbon	28.76	708.07	955.91	1390.42	955.91
North	U68-L68	700	28.97	23.17	19.80	2.76	0.750	64.50	Carbon	29.04	715.08	955.91	1390.42	955.91
North	U69-L69	701	28.97	23.17	20.80	2.76	0.750	67.76	Carbon	28.63	704.99	955.91	1390.42	955.91
North	U70-L70	702	43.70	34.96	25.10	3.34	0.750	67.72	Carbon	28.64	1063.69	1442.00	2097.46	1442.00
North	U71-L71	703	53.75	43.00	32.03	6.11	0.750	47.16	Carbon	30.88	1411.02	1773.75	2580.00	1773.75
North	U72-L72	704	54.25	43.40	42.60	6.20	0.750	61.87	Carbon	29.36	1353.80	1790.25	2604.00	1790.25
North	U73-L73	705	59.00	47.20	57.40	6.99	0.750	73.92	Carbon	27.80	1394.32	1947.00	2832.00	1947.00
North	U74-L74	706	122.53	98.03	78.30	8.17	0.750	86.24	Carbon	25.93	2700.13	4043.53	5881.50	4043.53
North	U75-L75	707	79.19	63.35	58.00	8.37	0.750	62.38	Carbon	29.30	1972.11	2613.19	3801.00	2613.19
North	U76-L76	708	75.69	60.55	43.90	7.63	0.750	51.80	Carbon	30.45	1958.86	2497.69	3633.00	2497.69
North	U77-L77	709	82.59	66.08	33.90	6.81	0.750	44.79	Carbon	31.09	2182.81	2725.59	3964.50	2725.59
North	U78-L78	710	71.53	57.23	27.20	6.11	0.750	40.06	Carbon	31.47	1913.65	2360.53	3433.50	2360.53
North	U79-L79	711	56.25	45.00	23.40	6.10	0.750	34.54	Carbon	31.87	1523.57	1856.25	2700.00	1856.25
North	U80-L80	712	49.78	39.83	21.30	3.65	0.750	52.48	Carbon	30.38	1285.53	1642.79	2389.52	1642.79
North	U81-L81	713	28.97	23.17	20.50	2.76	0.750	66.78	Carbon	28.76	708.07	955.91	1390.42	955.91
North	U82-L82	714	28.97	23.17	20.30	2.76	0.750	66.13	Carbon	28.84	710.10	955.91	1390.42	955.91
North	U83-L83	715	48.28	38.63	20.80	3.47	0.750	54.02	Carbon	30.22	1240.38	1593.29	2317.52	1593.29
North	U84-L84	716	60.63	48.50	22.20	3.69	0.750	54.20	Carbon	30.21	1556.54	2000.64	2910.02	2000.64
North	U85-L85	717	80.22	64.18	24.50	6.06	0.750	36.41	Carbon	31.74	2164.15	2647.22	3850.50	2647.22
North	U86-L86	718	80.63	64.50	28.70	6.07	0.750	42.58	Carbon	31.28	2143.32	2660.63	3870.00	2660.63
North	U87-L87	719	77.09	61.68	35.50	6.84	0.750	46.69	Carbon	30.93	2026.61	2544.09	3700.50	2544.09
North	U88-L88	720	67.25	53.80	46.00	7.72	0.750	53.65	Carbon	30.26	1729.84	2219.25	3228.00	2219.25
North	U89-L89	721	68.06	54.45	60.20	8.29	0.750	65.38	Carbon	28.93	1673.91	2246.06	3267.00	2246.06
North	U90-L90	722	77.81	62.25	80.80	8.19	0.750	88.75	Carbon	25.51	1687.10	2567.81	3735.00	2567.81
North	U91-L91	723	41.25	33.00	57.00	6.21	0.750	82.63	Carbon	26.50	929.33	1361.25	1980.00	1361.25
North	U92-L92	724	43.75	35.00	42.00	6.18	0.750	61.12	Carbon	29.45	1095.06	1443.75	2100.00	1443.75
North	U93-L93	725	48.75	39.00	31.50	6.14	0.750	46.14	Carbon	30.98	1283.54	1608.75	2340.00	1608.75
North	U94-L94	726	64.13	51.30	24.00	3.56	0.750	60.74	Carbon	29.49	1607.44	2116.14	3078.02	2116.14
North	U95-L95	727	62.38	49.90	20.00	3.54	0.750	50.82	Carbon	30.54	1619.36	2058.39	2994.02	2058.39
North	U96-L96	728	89.81	71.85	18.05	4.82	0.750	33.72	Carbon	31.92	2436.69	2963.81	4311.00	2963.81
North	U97-L97	729	43.70	34.96	17.40	3.34	0.750	46.94	Carbon	30.90	1147.84	1442.00	2097.46	1442.00
North	U98-L98	730	34.85	27.88	16.90	2.79	0.750	54.46	Carbon	30.18	893.98	1150.07	1672.83	1150.07
North	U99-L99	731	27.44	21.95	16.60	1.99	0.750	75.17	Carbon	27.63	644.24	905.39	1316.93	905.39
North	U100-L100	732	23.64	18.91	16.50	1.97	0.750	75.55	Carbon	27.57	553.93	780.01	1134.56	780.01
North	U101-L101	733	27.44	21.95	16.50	1.99	0.750	74.72	Carbon	27.69	645.74	905.39	1316.93	905.39
North	U102-L102	734	34.85	27.88	16.70	2.79	0.750	53.82	Carbon	30.24	895.95	1150.07	1672.83	1150.07
North	U103-L103	735	43.70	34.96	17.00	3.34	0.750	45.87	Carbon	31.00	1151.38	1442.00	2097.46	1442.00
North	U104-L104	736	44.94	35.95	17.46	6.17	0.750	25.46	Silicon	43.85	1675.08	2022.19	2516.50	2022.19
North	U105-L105	737	48.28	38.63	19.10	3.47	0.750	49.61	Silicon	40.65	1668.15	2172.67	2703.77	2172.67
North	U106-L106	738	48.28	38.63	23.10	3.47	0.750	59.99	Silicon	38.63	1585.50	2172.67	2703.77	2172.67
North	U107-L107	739	48.28	38.63	29.70	3.47	0.750	77.14	Silicon	34.48	1414.88	2172.67	2703.77	2172.67
North	U108-L108	740	41.25	33.00	39.30	6.21	0.750	56.97	Silicon	39.26	1376.50	1856.25	2310.00	1856.25
North	U109-L109	741	58.75	47.00	55.40	5.92	0.750	84.29	Silicon	32.43	1619.64	2643.75	3290.00	2643.75
North	U110-L110	742	56.00	44.80	78.20	8.88	0.750	79.24	Silicon	33.89	1613.38	2520.00	3136.00	2520.00

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U111-L111	743	64.25	51.40	59.40	7.75	0.750	68.98	Silicon	36.58	1997.96	2891.25	3598.00	2891.25
North	U112-L112	744	69.44	55.55	45.70	6.90	0.750	59.64	Silicon	38.71	2284.60	3124.69	3888.50	3124.69
North	U113-L113	745	91.11	72.89	36.40	7.69	0.750	42.62	Silicon	41.79	3236.12	4099.92	5102.13	4099.92
North	U114-L114	746	87.73	70.19	30.50	7.61	0.750	36.09	Silicon	42.70	3184.04	3948.05	4913.13	3948.05
North	U115-L115	747	75.73	60.59	27.30	7.70	0.750	31.89	Silicon	43.20	2781.06	3408.05	4241.13	3408.05
North	U116-L116	748	62.63	50.10	25.70	3.72	0.750	62.18	Silicon	38.16	2031.35	2818.15	3507.03	2818.15
North	U117-L117	749	53.53	42.83	25.10	3.53	0.750	64.07	Silicon	37.74	1717.24	2408.92	2997.77	2408.92
North	U118-L118	750	28.97	23.17	24.60	2.76	0.750	80.14	Silicon	33.64	828.30	1303.52	1622.15	1303.52
North	U119-L119	751	28.97	23.17	24.50	2.76	0.750	79.81	Silicon	33.73	830.57	1303.52	1622.15	1303.52
North	U120-L120	752	31.93	25.54	25.10	2.78	0.750	81.25	Silicon	33.32	904.34	1436.67	1787.85	1436.67
North	U121-L121	753	46.63	37.30	26.90	3.36	0.750	72.14	Silicon	35.80	1418.62	2098.15	2611.03	2098.15
North	U122-L122	754	68.63	54.90	30.20	3.81	0.750	71.40	Silicon	35.98	2098.95	3088.15	3843.03	3088.15
North	U123-L123	755	68.69	54.95	35.30	6.11	0.750	51.97	Silicon	40.22	2348.38	3090.94	3846.50	3090.94
North	U124-L124	756	83.44	66.75	42.60	7.69	0.750	49.83	Silicon	40.61	2880.07	3754.69	4672.50	3754.69
North	U125-L125	757	79.19	63.35	52.60	8.37	0.750	56.57	Silicon	39.34	2647.96	3563.44	4434.50	3563.44
North	U126-L126	758	110.55	88.44	66.90	8.21	0.750	73.36	Silicon	35.48	3334.09	4974.61	6190.63	4974.61
South	U0-L1	759	43.70	37.14	33.20	3.34	0.750	89.57	Carbon	25.37	942.25	1442.00	2228.55	1442.00
South	U1-L2	760	43.70	37.14	29.20	3.34	0.750	78.78	Carbon	27.10	1006.43	1442.00	2228.55	1442.00
South	U2-L3	761	34.85	29.62	26.70	2.79	0.750	86.04	Carbon	25.96	768.95	1150.07	1777.38	1150.07
South	U3-L4	762	28.97	24.62	25.20	2.76	0.750	82.09	Carbon	26.59	654.69	955.91	1477.32	955.91
South	U4-L5	763	37.78	32.11	25.00	3.29	0.750	68.44	Carbon	28.54	916.67	1246.79	1926.86	1246.79
South	U6-L5	764	43.70	37.14	25.00	3.34	0.750	67.45	Carbon	28.67	1064.97	1442.00	2228.55	1442.00
South	U7-L6	765	57.03	48.48	25.30	3.56	0.750	63.96	Carbon	29.11	1411.07	1882.04	2908.61	1882.04
South	U8-L7	766	55.28	46.99	27.40	3.54	0.750	69.59	Carbon	28.39	1334.18	1824.29	2819.36	1824.29
South	U9-L8	767	46.63	39.63	31.00	3.36	0.750	83.13	Carbon	26.43	1047.30	1538.64	2377.90	1538.64
South	U10-L9	768	37.78	32.11	36.60	3.29	0.750	100.20	Carbon	23.45	753.06	1246.79	1926.86	1246.79
South	U10-L11	769	37.78	32.11	36.30	3.29	0.750	99.38	Carbon	23.61	758.07	1246.79	1926.86	1246.79
South	U11-L12	770	37.78	32.11	30.70	3.29	0.750	84.05	Carbon	26.28	843.98	1246.79	1926.86	1246.79
South	U12-L13	771	40.72	34.61	27.50	3.31	0.750	74.71	Carbon	27.69	958.51	1343.83	2076.83	1343.83
South	U13-L14	772	34.85	29.62	25.60	2.79	0.750	82.50	Carbon	26.53	785.78	1150.07	1777.38	1150.07
South	U14-L15	773	28.97	24.62	25.20	2.76	0.750	82.09	Carbon	26.59	654.69	955.91	1477.32	955.91
South	U16-L15	774	28.97	24.62	25.40	2.76	0.750	82.75	Carbon	26.49	652.17	955.91	1477.32	955.91
South	U17-L16	775	34.85	29.62	26.00	2.79	0.750	83.79	Carbon	26.32	779.74	1150.07	1777.38	1150.07
South	U18-L17	776	37.78	32.11	28.60	3.29	0.750	78.30	Carbon	27.17	872.49	1246.79	1926.86	1246.79
South	U19-L18	777	37.78	32.11	33.30	3.29	0.750	91.17	Carbon	25.09	805.88	1246.79	1926.86	1246.79
South	U20-L19	778	48.28	41.04	41.30	3.47	0.750	107.26	Carbon	22.06	905.17	1593.29	2462.36	1593.29
South	U20-L21	779	37.78	32.11	41.00	3.29	0.750	112.25	Carbon	21.02	674.88	1246.79	1926.86	1246.79
South	U21-L22	780	31.93	27.14	33.10	2.78	0.750	107.14	Carbon	22.08	599.22	1053.55	1628.22	1053.55
South	U22-L23	781	37.78	32.11	28.40	3.29	0.750	77.75	Carbon	27.25	875.10	1246.79	1926.86	1246.79
South	U23-L24	782	37.78	32.11	26.10	3.29	0.750	71.46	Carbon	28.14	903.80	1246.79	1926.86	1246.79
South	U24-L25	783	28.97	24.62	25.80	2.76	0.750	84.05	Carbon	26.28	647.08	955.91	1477.32	955.91
South	U26-L25	784	28.97	24.62	26.00	2.76	0.750	84.70	Carbon	26.18	644.51	955.91	1477.32	955.91
South	U27-L26	785	28.97	24.62	26.90	2.76	0.750	87.63	Carbon	25.70	632.67	955.91	1477.32	955.91
South	U28-L27	786	31.93	27.14	30.00	2.78	0.750	97.11	Carbon	24.03	652.12	1053.55	1628.22	1053.55
South	U29-L28	787	31.93	27.14	35.80	2.78	0.750	115.88	Carbon	20.23	548.91	1053.55	1628.22	1053.55
South	U30-L29	788	28.97	24.62	45.80	2.76	0.750	149.20	Carbon	12.86	316.57	955.91	1477.32	955.91
South	U30-L31	789	37.78	32.11	45.50	3.29	0.750	124.57	Carbon	18.24	585.76	1246.79	1926.86	1246.79
South	U31-L32	790	46.63	39.63	35.50	3.36	0.750	95.20	Carbon	24.38	966.17	1538.64	2377.90	1538.64
South	U32-L33	791	50.03	42.53	29.80	3.49	0.750	76.91	Carbon	27.37	1164.10	1651.04	2551.61	1651.04
South	U33-L34	792	43.70	37.14	27.00	3.34	0.750	72.84	Carbon	27.95	1038.23	1442.00	2228.55	1442.00
South	U34-L35	793	28.97	24.62	26.50	2.76	0.750	86.33	Carbon	25.91	637.98	955.91	1477.32	955.91
South	U36-L35	794	28.97	24.62	26.70	2.76	0.750	86.98	Carbon	25.80	635.34	955.91	1477.32	955.91
South	U37-L36	795	43.70	37.14	28.10	3.34	0.750	75.81	Carbon	27.53	1022.64	1442.00	2228.55	1442.00

Calculations For: ***CUY-2-1441 Main Truss, Member Capacities***

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	U38-L37	796	50.03	42.53	31.60	3.49	0.750	81.56	Carbon	26.67	1134.31	1651.04	2551.61	1651.04
South	U39-L38	797	43.70	37.14	40.00	3.34	0.750	107.92	Carbon	21.92	814.24	1442.00	2228.55	1442.00
South	U40-L39	798	37.78	32.11	53.10	3.29	0.750	145.38	Carbon	13.54	434.92	1246.79	1926.86	1246.79
South	U40-L41	799	28.97	24.62	52.80	2.76	0.750	172.01	Carbon	9.67	238.20	955.91	1477.32	955.91
South	U41-L42	800	34.85	29.62	39.70	2.79	0.750	127.94	Carbon	17.43	516.35	1150.07	1777.38	1150.07
South	U42-L43	801	37.78	32.11	31.90	3.29	0.750	87.34	Carbon	25.74	826.78	1246.79	1926.86	1246.79
South	U43-L44	802	34.85	29.62	28.00	2.79	0.750	90.23	Carbon	25.26	748.14	1150.07	1777.38	1150.07
South	U44-L45	803	21.57	18.33	27.10	1.96	0.750	124.52	Carbon	18.25	334.61	711.73	1099.95	711.73
South	U46-L45	804	21.57	18.33	27.40	1.96	0.750	125.89	Carbon	17.92	328.60	711.73	1099.95	711.73
South	U47-L46	805	34.85	29.62	28.40	2.79	0.750	91.52	Carbon	25.03	741.53	1150.07	1777.38	1150.07
South	U48-L47	806	37.78	32.11	31.90	3.29	0.750	87.34	Carbon	25.74	826.78	1246.79	1926.86	1246.79
South	U49-L48	807	34.85	29.62	40.20	2.79	0.750	129.55	Carbon	17.04	504.66	1150.07	1777.38	1150.07
South	U50-L49	808	28.97	24.62	55.90	2.76	0.750	182.10	Carbon	8.63	212.51	955.91	1477.32	955.91
South	U50-L51	809	37.78	32.11	57.90	3.29	0.750	158.52	Carbon	11.39	365.80	1246.79	1926.86	1246.79
South	U51-L52	810	43.70	37.14	44.60	3.34	0.750	120.33	Carbon	19.23	714.16	1442.00	2228.55	1442.00
South	U52-L53	811	46.63	39.63	35.90	3.36	0.750	96.28	Carbon	24.18	958.43	1538.64	2377.90	1538.64
South	U53-L54	812	43.70	37.14	31.10	3.34	0.750	83.91	Carbon	26.30	976.97	1442.00	2228.55	1442.00
South	U54-L55	813	37.78	32.11	28.20	3.29	0.750	77.21	Carbon	27.33	877.69	1246.79	1926.86	1246.79
South	U55-L56	814	37.78	32.11	27.50	3.29	0.750	75.29	Carbon	27.61	886.62	1246.79	1926.86	1246.79
South	U57-L56	815	28.97	24.62	27.70	2.76	0.750	90.24	Carbon	25.25	621.82	955.91	1477.32	955.91
South	U58-L57	816	43.70	37.14	28.40	3.34	0.750	76.62	Carbon	27.42	1018.28	1442.00	2228.55	1442.00
South	U59-L58	817	48.28	41.04	31.40	3.47	0.750	81.55	Carbon	26.67	1094.69	1593.29	2462.36	1593.29
South	U60-L59	818	46.63	39.63	36.20	3.36	0.750	97.08	Carbon	24.04	952.56	1538.64	2377.90	1538.64
South	U61-L60	819	40.72	34.61	44.90	3.31	0.750	121.97	Carbon	18.85	652.42	1343.83	2076.83	1343.83
South	U62-L61	820	41.25	35.06	58.00	6.21	0.750	84.08	Carbon	26.27	921.27	1361.25	2103.75	1361.25
South	U62-L63	821	41.25	35.06	59.10	6.21	0.750	85.68	Carbon	26.02	912.24	1361.25	2103.75	1361.25
South	U63-L64	822	31.93	27.14	45.80	2.78	0.750	148.25	Carbon	13.02	353.41	1053.55	1628.22	1053.55
South	U64-L65	823	34.85	29.62	36.70	2.79	0.750	118.27	Carbon	19.69	583.42	1150.07	1777.38	1150.07
South	U65-L66	824	37.78	32.11	31.50	3.29	0.750	86.24	Carbon	25.93	832.58	1246.79	1926.86	1246.79
South	U66-L67	825	31.93	27.14	28.50	2.78	0.750	92.25	Carbon	24.91	675.85	1053.55	1628.22	1053.55
South	U67-L68	826	25.39	21.58	28.00	1.98	0.750	127.56	Carbon	17.52	378.11	837.82	1294.81	837.82
South	U69-L68	827	21.57	18.33	28.20	1.96	0.750	129.57	Carbon	17.03	312.22	711.73	1099.95	711.73
South	U70-L69	828	31.93	27.14	29.00	2.78	0.750	93.87	Carbon	24.62	668.08	1053.55	1628.22	1053.55
South	U71-L70	829	37.78	32.11	32.20	3.29	0.750	88.16	Carbon	25.61	822.37	1246.79	1926.86	1246.79
South	U72-L71	830	37.78	32.11	37.90	3.29	0.750	103.76	Carbon	22.76	730.89	1246.79	1926.86	1246.79
South	U73-L72	831	31.93	27.14	47.30	2.78	0.750	153.10	Carbon	12.21	331.35	1053.55	1628.22	1053.55
South	U74-L73	832	41.25	35.06	61.00	6.21	0.750	88.43	Carbon	25.56	896.24	1361.25	2103.75	1361.25
South	U74-L75	833	53.75	45.69	61.20	6.11	0.750	90.12	Carbon	25.28	1154.78	1773.75	2741.25	1773.75
South	U75-L76	834	58.03	49.33	48.10	4.06	0.750	106.71	Carbon	22.17	1093.50	1915.04	2959.61	1915.04
South	U76-L77	835	65.88	55.99	39.20	3.57	0.750	98.83	Carbon	23.71	1327.63	2173.89	3359.65	2173.89
South	U77-L78	836	67.63	57.48	33.70	3.58	0.750	84.65	Carbon	26.18	1505.09	2231.64	3448.90	2231.64
South	U78-L79	837	64.03	54.43	30.70	3.62	0.750	76.42	Carbon	27.45	1493.75	2113.04	3265.61	2113.04
South	U79-L80	838	43.70	37.14	29.10	3.34	0.750	78.51	Carbon	27.14	1007.93	1442.00	2228.55	1442.00
South	U80-L81	839	34.85	29.62	28.50	2.79	0.750	91.85	Carbon	24.98	739.87	1150.07	1777.38	1150.07
South	U81-L82	840	43.70	37.14	28.30	3.34	0.750	76.35	Carbon	27.45	1019.74	1442.00	2228.55	1442.00
South	U83-L82	841	46.63	39.63	28.60	3.36	0.750	76.70	Carbon	27.40	1086.08	1538.64	2377.90	1538.64
South	U84-L83	842	71.13	60.46	29.00	3.61	0.750	72.36	Carbon	28.02	1693.95	2347.14	3627.40	2347.14
South	U85-L84	843	67.63	57.48	30.00	3.58	0.750	75.36	Carbon	27.60	1586.40	2231.64	3448.90	2231.64
South	U86-L85	844	74.63	63.43	31.80	3.88	0.750	73.80	Carbon	27.82	1764.67	2462.64	3805.90	2462.64
South	U87-L86	845	71.13	60.46	35.10	3.61	0.750	87.58	Carbon	25.70	1553.95	2347.14	3627.40	2347.14
South	U88-L87	846	56.91	48.37	40.80	3.91	0.750	93.97	Carbon	24.60	1189.92	1877.92	2902.24	1877.92
South	U89-L88	847	51.25	43.56	50.20	6.13	0.750	73.73	Carbon	27.83	1212.31	1691.25	2613.75	1691.25
South	U90-L89	848	61.75	52.49	63.50	6.96	0.750	82.08	Carbon	26.59	1395.71	2037.75	3149.25	2037.75

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	U90-L91	849	53.75	45.69	60.40	6.90	0.750	78.77	Carbon	27.10	1238.02	1773.75	2741.25	1773.75
South	U91-L92	850	41.25	35.06	46.50	6.21	0.750	67.41	Carbon	28.68	1005.50	1361.25	2103.75	1361.25
South	U92-L93	851	37.78	32.11	37.30	3.29	0.750	102.12	Carbon	23.08	741.22	1246.79	1926.86	1246.79
South	U93-L94	852	40.72	34.61	31.30	3.31	0.750	85.03	Carbon	26.12	904.22	1343.83	2076.83	1343.83
South	U94-L95	853	60.63	51.53	28.30	3.53	0.750	72.23	Carbon	28.04	1444.80	2000.64	3091.90	2000.64
South	U95-L96	854	71.13	60.46	27.00	3.61	0.750	67.37	Carbon	28.68	1734.05	2347.14	3627.40	2347.14
South	U96-L97	855	64.03	54.43	26.50	3.62	0.750	65.96	Carbon	28.86	1570.81	2113.04	3265.61	2113.04
South	U97-L98	856	48.28	41.04	26.10	3.47	0.750	67.79	Carbon	28.63	1174.93	1593.29	2462.36	1593.29
South	U98-L99	857	34.85	29.62	25.90	2.79	0.750	83.47	Carbon	26.37	781.26	1150.07	1777.38	1150.07
South	U99-L100	858	28.97	24.62	25.70	2.76	0.750	83.72	Carbon	26.33	648.36	955.91	1477.32	955.91
South	U101-L100	859	28.97	24.62	25.50	2.76	0.750	83.07	Carbon	26.44	650.91	955.91	1477.32	955.91
South	U102-L101	860	31.93	27.14	25.40	2.78	0.750	82.22	Carbon	26.57	721.04	1053.55	1628.22	1053.55
South	U103-L102	861	48.28	41.04	25.50	3.47	0.750	66.23	Carbon	28.83	1183.08	1593.29	2462.36	1593.29
South	U104-L103	862	64.03	54.43	25.60	3.62	0.750	63.72	Carbon	29.14	1585.86	2113.04	3265.61	2113.04
South	U105-L104	863	71.70	60.94	25.80	3.63	0.750	64.01	Carbon	29.10	1773.62	2366.00	3656.55	2366.00
South	U106-L105	864	60.63	51.53	26.80	3.53	0.750	68.40	Carbon	28.55	1471.19	2000.64	3091.90	2000.64
South	U107-L106	865	43.70	37.14	29.60	3.34	0.750	79.86	Carbon	26.93	1000.39	1442.00	2228.55	1442.00
South	U108-L107	866	28.97	24.62	34.60	2.76	0.750	112.72	Carbon	20.92	514.97	955.91	1477.32	955.91
South	U109-L108	867	41.25	35.06	42.70	6.21	0.750	61.90	Carbon	29.36	1029.26	1361.25	2103.75	1361.25
South	U110-L109	868	53.25	45.26	57.30	7.70	0.750	66.97	Carbon	28.73	1300.57	1757.25	2715.75	1757.25
South	U110-L111	869	54.69	46.48	61.60	7.71	0.750	71.88	Carbon	28.09	1305.56	1804.69	2789.06	1804.69
South	U111-L112	870	48.75	41.44	49.30	6.14	0.750	72.21	Carbon	28.04	1161.94	1608.75	2486.25	1608.75
South	U112-L113	871	48.28	41.04	40.90	3.47	0.750	106.22	Carbon	22.27	913.83	1593.29	2462.36	1593.29
South	U113-L114	872	58.88	50.04	35.90	3.51	0.750	92.06	Carbon	24.94	1248.03	1942.89	3002.65	1942.89
South	U114-L115	873	65.88	55.99	33.20	3.57	0.750	83.70	Carbon	26.34	1474.68	2173.89	3359.65	2173.89
South	U115-L116	874	58.88	50.04	31.90	3.51	0.750	81.80	Carbon	26.63	1332.92	1942.89	3002.65	1942.89
South	U116-L117	875	60.63	51.53	31.40	3.53	0.750	80.14	Carbon	26.89	1385.70	2000.64	3091.90	2000.64
South	U117-L118	876	50.03	42.53	31.00	3.49	0.750	80.01	Carbon	26.91	1144.44	1651.04	2551.61	1651.04
South	U119-L118	877	53.53	45.50	30.20	3.53	0.750	77.08	Carbon	27.35	1244.38	1766.54	2730.11	1766.54
South	U120-L119	878	40.72	34.61	30.10	3.31	0.750	81.77	Carbon	26.64	922.12	1343.83	2076.83	1343.83
South	U121-L120	879	28.97	24.62	30.50	2.76	0.750	99.36	Carbon	23.61	581.31	955.91	1477.32	955.91
South	U122-L121	880	43.70	37.14	31.90	3.34	0.750	86.06	Carbon	25.95	964.01	1442.00	2228.55	1442.00
South	U123-L122	881	55.78	47.41	34.40	3.77	0.750	82.15	Carbon	26.58	1260.31	1840.79	2844.86	1840.79
South	U124-L123	882	67.78	57.61	38.70	3.93	0.750	88.57	Carbon	25.54	1471.40	2236.79	3456.86	2236.79
South	U125-L124	883	64.63	54.93	45.10	3.75	0.750	108.22	Carbon	21.86	1200.80	2132.64	3295.90	2132.64
South	U126-L125	884	64.63	54.93	52.90	3.75	0.750	126.94	Carbon	17.67	970.83	2132.64	3295.90	2132.64
North	U0-L1	885	43.70	37.14	33.20	3.34	0.750	89.57	Carbon	25.37	942.25	1442.00	2228.55	1442.00
North	U1-L2	886	43.70	37.14	29.20	3.34	0.750	78.78	Carbon	27.10	1006.43	1442.00	2228.55	1442.00
North	U2-L3	887	34.85	29.62	26.70	2.79	0.750	86.04	Carbon	25.96	768.95	1150.07	1777.38	1150.07
North	U3-L4	888	28.97	24.62	25.20	2.76	0.750	82.09	Carbon	26.59	654.69	955.91	1477.32	955.91
North	U4-L5	889	37.78	32.11	25.00	3.29	0.750	68.44	Carbon	28.54	916.67	1246.79	1926.86	1246.79
North	U6-L5	890	43.70	37.14	25.00	3.34	0.750	67.45	Carbon	28.67	1064.97	1442.00	2228.55	1442.00
North	U7-L6	891	57.03	48.48	25.30	3.56	0.750	63.96	Carbon	29.11	1411.07	1882.04	2908.61	1882.04
North	U8-L7	892	55.28	46.99	27.40	3.54	0.750	69.59	Carbon	28.39	1334.18	1824.29	2819.36	1824.29
North	U9-L8	893	46.63	39.63	31.00	3.36	0.750	83.13	Carbon	26.43	1047.30	1538.64	2377.90	1538.64
North	U10-L9	894	37.78	32.11	36.60	3.29	0.750	100.20	Carbon	23.45	753.06	1246.79	1926.86	1246.79
North	U10-L11	895	37.78	32.11	36.30	3.29	0.750	99.38	Carbon	23.61	758.07	1246.79	1926.86	1246.79
North	U11-L12	896	37.78	32.11	30.70	3.29	0.750	84.05	Carbon	26.28	843.98	1246.79	1926.86	1246.79
North	U12-L13	897	40.72	34.61	27.50	3.31	0.750	74.71	Carbon	27.69	958.51	1343.83	2076.83	1343.83
North	U13-L14	898	34.85	29.62	25.60	2.79	0.750	82.50	Carbon	26.53	785.78	1150.07	1777.38	1150.07
North	U14-L15	899	28.97	24.62	25.20	2.76	0.750	82.09	Carbon	26.59	654.69	955.91	1477.32	955.91
North	U16-L15	900	28.97	24.62	25.40	2.76	0.750	82.75	Carbon	26.49	652.17	955.91	1477.32	955.91
North	U17-L16	901	34.85	29.62	26.00	2.79	0.750	83.79	Carbon	26.32	779.74	1150.07	1777.38	1150.07

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
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E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U18-L17	902	37.78	32.11	28.60	3.29	0.750	78.30	Carbon	27.17	872.49	1246.79	1926.86	1246.79
North	U19-L18	903	37.78	32.11	33.30	3.29	0.750	91.17	Carbon	25.09	805.88	1246.79	1926.86	1246.79
North	U20-L19	904	48.28	41.04	41.30	3.47	0.750	107.26	Carbon	22.06	905.17	1593.29	2462.36	1593.29
North	U20-L21	905	37.78	32.11	41.00	3.29	0.750	112.25	Carbon	21.02	674.88	1246.79	1926.86	1246.79
North	U21-L22	906	31.93	27.14	33.10	2.78	0.750	107.14	Carbon	22.08	599.22	1053.55	1628.22	1053.55
North	U22-L23	907	37.78	32.11	28.40	3.29	0.750	77.75	Carbon	27.25	875.10	1246.79	1926.86	1246.79
North	U23-L24	908	37.78	32.11	26.10	3.29	0.750	71.46	Carbon	28.14	903.80	1246.79	1926.86	1246.79
North	U24-L25	909	28.97	24.62	25.80	2.76	0.750	84.05	Carbon	26.28	647.08	955.91	1477.32	955.91
North	U26-L25	910	28.97	24.62	26.00	2.76	0.750	84.70	Carbon	26.18	644.51	955.91	1477.32	955.91
North	U27-L26	911	28.97	24.62	26.90	2.76	0.750	87.63	Carbon	25.70	632.67	955.91	1477.32	955.91
North	U28-L27	912	31.93	27.14	30.00	2.78	0.750	97.11	Carbon	24.03	652.12	1053.55	1628.22	1053.55
North	U29-L28	913	31.93	27.14	35.80	2.78	0.750	115.88	Carbon	20.23	548.91	1053.55	1628.22	1053.55
North	U30-L29	914	28.97	24.62	45.80	2.76	0.750	149.20	Carbon	12.86	316.57	955.91	1477.32	955.91
North	U30-L31	915	37.78	32.11	45.50	3.29	0.750	124.57	Carbon	18.24	585.76	1246.79	1926.86	1246.79
North	U31-L32	916	46.63	39.63	35.50	3.36	0.750	95.20	Carbon	24.38	966.17	1538.64	2377.90	1538.64
North	U32-L33	917	50.03	42.53	29.80	3.49	0.750	76.91	Carbon	27.37	1164.10	1651.04	2551.61	1651.04
North	U33-L34	918	43.70	37.14	27.00	3.34	0.750	72.84	Carbon	27.95	1038.23	1442.00	2228.55	1442.00
North	U34-L35	919	28.97	24.62	26.50	2.76	0.750	86.33	Carbon	25.91	637.98	955.91	1477.32	955.91
North	U36-L35	920	28.97	24.62	26.70	2.76	0.750	86.98	Carbon	25.80	635.34	955.91	1477.32	955.91
North	U37-L36	921	43.70	37.14	28.10	3.34	0.750	75.81	Carbon	27.53	1022.64	1442.00	2228.55	1442.00
North	U38-L37	922	50.03	42.53	31.60	3.49	0.750	81.56	Carbon	26.67	1134.31	1651.04	2551.61	1651.04
North	U39-L38	923	43.70	37.14	40.00	3.34	0.750	107.92	Carbon	21.92	814.24	1442.00	2228.55	1442.00
North	U40-L39	924	37.78	32.11	53.10	3.29	0.750	145.38	Carbon	13.54	434.92	1246.79	1926.86	1246.79
North	U40-L41	925	28.97	24.62	52.80	2.76	0.750	172.01	Carbon	9.67	238.20	955.91	1477.32	955.91
North	U41-L42	926	34.85	29.62	39.70	2.79	0.750	127.94	Carbon	17.43	516.35	1150.07	1777.38	1150.07
North	U42-L43	927	37.78	32.11	31.90	3.29	0.750	87.34	Carbon	25.74	826.78	1246.79	1926.86	1246.79
North	U43-L44	928	34.85	29.62	28.00	2.79	0.750	90.23	Carbon	25.26	748.14	1150.07	1777.38	1150.07
North	U44-L45	929	21.57	18.33	27.10	1.96	0.750	124.52	Carbon	18.25	334.61	711.73	1099.95	711.73
North	U46-L45	930	21.57	18.33	27.40	1.96	0.750	125.89	Carbon	17.92	328.60	711.73	1099.95	711.73
North	U47-L46	931	34.85	29.62	28.40	2.79	0.750	91.52	Carbon	25.03	741.53	1150.07	1777.38	1150.07
North	U48-L47	932	37.78	32.11	33.60	3.29	0.750	91.99	Carbon	24.95	801.28	1246.79	1926.86	1246.79
North	U49-L48	933	34.85	29.62	42.40	2.79	0.750	136.64	Carbon	15.33	454.12	1150.07	1777.38	1150.07
North	U50-L49	934	37.78	32.11	55.90	3.29	0.750	153.04	Carbon	12.22	392.44	1246.79	1926.86	1246.79
North	U50-L51	935	53.53	45.50	57.90	2.76	0.750	188.59	Carbon	8.05	366.17	1766.54	2730.11	1766.54
North	U51-L52	936	53.53	45.50	44.60	3.53	0.750	113.84	Carbon	20.67	940.65	1766.54	2730.11	1766.54
North	U52-L53	937	55.38	47.07	35.90	3.47	0.750	93.02	Carbon	24.77	1165.85	1827.39	2824.15	1827.39
North	U53-L54	938	55.38	47.07	31.10	3.47	0.750	80.59	Carbon	26.82	1262.53	1827.39	2824.15	1827.39
North	U54-L55	939	55.28	46.99	28.20	3.54	0.750	71.62	Carbon	28.12	1321.35	1824.29	2819.36	1824.29
North	U55-L56	940	28.97	24.62	27.50	2.76	0.750	89.59	Carbon	25.37	624.56	955.91	1477.32	955.91
North	U57-L56	941	31.93	27.14	27.70	2.78	0.750	89.66	Carbon	25.35	688.01	1053.55	1628.22	1053.55
North	U58-L57	942	53.53	45.50	28.40	3.53	0.750	72.49	Carbon	28.00	1274.13	1766.54	2730.11	1766.54
North	U59-L58	943	62.38	53.02	31.40	3.54	0.750	79.79	Carbon	26.94	1428.53	2058.39	3181.15	2058.39
North	U60-L59	944	62.38	53.02	36.20	3.54	0.750	91.99	Carbon	24.95	1322.85	2058.39	3181.15	2058.39
North	U61-L60	945	60.63	51.53	44.90	3.53	0.750	114.60	Carbon	20.51	1056.79	2000.64	3091.90	2000.64
North	U62-L61	946	48.28	41.04	59.20	3.47	0.750	153.75	Carbon	12.11	496.89	1593.29	2462.36	1593.29
North	U62-L63	947	28.97	24.62	59.10	2.76	0.750	192.53	Carbon	7.72	190.12	955.91	1477.32	955.91
North	U63-L64	948	31.93	27.14	45.80	2.78	0.750	148.25	Carbon	13.02	353.41	1053.55	1628.22	1053.55
North	U64-L65	949	34.85	29.62	36.70	2.79	0.750	118.27	Carbon	19.69	583.42	1150.07	1777.38	1150.07
North	U65-L66	950	37.78	32.11	31.50	3.29	0.750	86.24	Carbon	25.93	832.58	1246.79	1926.86	1246.79
North	U66-L67	951	31.93	27.14	28.50	2.78	0.750	92.25	Carbon	24.91	675.85	1053.55	1628.22	1053.55
North	U67-L68	952	25.39	21.58	28.00	1.98	0.750	127.56	Carbon	17.52	378.11	837.82	1294.81	837.82
North	U69-L68	953	21.57	18.33	28.20	1.96	0.750	129.57	Carbon	17.03	312.22	711.73	1099.95	711.73
North	U70-L69	954	31.93	27.14	29.00	2.78	0.750	93.87	Carbon	24.62	668.08	1053.55	1628.22	1053.55

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L / $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U71-L70	955	37.78	32.11	32.20	3.29	0.750	88.16	Carbon	25.61	822.37	1246.79	1926.86	1246.79
North	U72-L71	956	37.78	32.11	37.90	3.29	0.750	103.76	Carbon	22.76	730.89	1246.79	1926.86	1246.79
North	U73-L72	957	31.93	27.14	47.30	2.78	0.750	153.10	Carbon	12.21	331.35	1053.55	1628.22	1053.55
North	U74-L73	958	41.25	35.06	61.00	6.21	0.750	88.43	Carbon	25.56	896.24	1361.25	2103.75	1361.25
North	U74-L75	959	53.75	45.69	61.20	6.11	0.750	90.12	Carbon	25.28	1154.78	1773.75	2741.25	1773.75
North	U75-L76	960	58.03	49.33	48.10	4.06	0.750	106.71	Carbon	22.17	1093.50	1915.04	2959.61	1915.04
North	U76-L77	961	65.88	55.99	39.20	3.57	0.750	98.83	Carbon	23.71	1327.63	2173.89	3359.65	2173.89
North	U77-L78	962	67.63	57.48	33.70	3.58	0.750	84.65	Carbon	26.18	1505.09	2231.64	3448.90	2231.64
North	U78-L79	963	64.03	54.43	30.70	3.62	0.750	76.42	Carbon	27.45	1493.75	2113.04	3265.61	2113.04
North	U79-L80	964	43.70	37.14	29.10	3.34	0.750	78.51	Carbon	27.14	1007.93	1442.00	2228.55	1442.00
North	U80-L81	965	34.85	29.62	28.50	2.79	0.750	91.85	Carbon	24.98	739.87	1150.07	1777.38	1150.07
North	U81-L82	966	43.70	37.14	28.30	3.34	0.750	76.35	Carbon	27.45	1019.74	1442.00	2228.55	1442.00
North	U83-L82	967	46.63	39.63	28.60	3.36	0.750	76.70	Carbon	27.40	1086.08	1538.64	2377.90	1538.64
North	U84-L83	968	71.13	60.46	29.00	3.61	0.750	72.36	Carbon	28.02	1693.95	2347.14	3627.40	2347.14
North	U85-L84	969	67.63	57.48	30.00	3.58	0.750	75.36	Carbon	27.60	1586.40	2231.64	3448.90	2231.64
North	U86-L85	970	74.63	63.43	31.80	3.88	0.750	73.80	Carbon	27.82	1764.67	2462.64	3805.90	2462.64
North	U87-L86	971	71.13	60.46	35.10	3.61	0.750	87.58	Carbon	25.70	1553.95	2347.14	3627.40	2347.14
North	U88-L87	972	56.91	48.37	40.80	3.91	0.750	93.97	Carbon	24.60	1189.92	1877.92	2902.24	1877.92
North	U89-L88	973	51.25	43.56	50.20	6.13	0.750	73.73	Carbon	27.83	1212.31	1691.25	2613.75	1691.25
North	U90-L89	974	61.75	52.49	63.50	6.96	0.750	82.08	Carbon	26.59	1395.71	2037.75	3149.25	2037.75
North	U90-L91	975	53.75	45.69	60.40	6.90	0.750	78.77	Carbon	27.10	1238.02	1773.75	2741.25	1773.75
North	U91-L92	976	41.25	35.06	46.50	6.21	0.750	67.41	Carbon	28.68	1005.50	1361.25	2103.75	1361.25
North	U92-L93	977	37.78	32.11	37.30	3.29	0.750	102.12	Carbon	23.08	741.22	1246.79	1926.86	1246.79
North	U93-L94	978	40.72	34.61	31.30	3.31	0.750	85.03	Carbon	26.12	904.22	1343.83	2076.83	1343.83
North	U94-L95	979	60.63	51.53	28.30	3.53	0.750	72.23	Carbon	28.04	1444.80	2000.64	3091.90	2000.64
North	U95-L96	980	71.13	60.46	27.00	3.61	0.750	67.37	Carbon	28.68	1734.05	2347.14	3627.40	2347.14
North	U96-L97	981	64.03	54.43	26.50	3.62	0.750	65.96	Carbon	28.86	1570.81	2113.04	3265.61	2113.04
North	U97-L98	982	48.28	41.04	26.20	3.47	0.750	68.05	Carbon	28.60	1173.55	1593.29	2462.36	1593.29
North	U98-L99	983	34.85	29.62	26.00	2.79	0.750	83.79	Carbon	26.32	779.74	1150.07	1777.38	1150.07
North	U99-L100	984	28.97	24.62	26.00	2.76	0.750	84.70	Carbon	26.18	644.51	955.91	1477.32	955.91
North	U101-L100	985	28.97	24.62	25.90	2.76	0.750	84.37	Carbon	26.23	645.80	955.91	1477.32	955.91
North	U102-L101	986	31.93	27.14	25.80	2.78	0.750	83.51	Carbon	26.37	715.50	1053.55	1628.22	1053.55
North	U103-L102	987	48.28	41.04	26.00	3.47	0.750	67.53	Carbon	28.66	1176.30	1593.29	2462.36	1593.29
North	U104-L103	988	64.03	54.43	26.10	3.62	0.750	64.97	Carbon	28.99	1577.56	2113.04	3265.61	2113.04
North	U105-L104	989	71.70	60.94	26.40	3.63	0.750	65.49	Silicon	37.41	2280.03	3226.37	4265.97	3226.37
North	U106-L105	990	60.63	51.53	27.40	3.53	0.750	69.93	Silicon	36.35	1873.14	2728.15	3607.21	2728.15
North	U107-L106	991	43.70	37.14	30.40	3.34	0.750	82.02	Silicon	33.10	1229.48	1966.37	2599.97	1966.37
North	U108-L107	992	28.97	24.62	35.60	2.76	0.750	115.97	Silicon	21.28	523.96	1303.52	1723.54	1303.52
North	U109-L108	993	41.25	35.06	43.80	6.21	0.750	63.50	Silicon	37.87	1327.76	1856.25	2454.38	1856.25
North	U110-L109	994	53.25	45.26	58.50	7.70	0.750	68.37	Silicon	36.73	1662.57	2396.25	3168.38	2396.25
North	U110-L111	995	54.69	46.48	63.50	7.71	0.750	74.09	Silicon	35.29	1640.43	2460.94	3253.91	2460.94
North	U111-L112	996	48.75	41.44	50.40	6.14	0.750	73.82	Silicon	35.36	1465.33	2193.75	2900.63	2193.75
North	U112-L113	997	48.28	41.04	42.00	3.47	0.750	109.08	Silicon	23.95	983.07	2172.67	2872.76	2172.67
North	U113-L114	998	58.88	50.04	36.90	3.51	0.750	94.62	Silicon	29.16	1459.43	2649.40	3503.09	2649.40
North	U114-L115	999	65.88	55.99	34.20	3.57	0.750	86.22	Silicon	31.85	1783.48	2964.40	3919.59	2964.40
North	U115-L116	1000	58.88	50.04	33.00	3.51	0.750	84.62	Silicon	32.33	1618.11	2649.40	3503.09	2649.40
North	U116-L117	1001	60.63	51.53	32.50	3.53	0.750	82.95	Silicon	32.83	1691.74	2728.15	3607.21	2728.15
North	U117-L118	1002	50.03	42.53	32.10	3.49	0.750	82.85	Silicon	32.86	1397.41	2251.42	2976.88	2251.42
North	U119-L118	1003	53.53	45.50	31.30	3.53	0.750	79.89	Silicon	33.71	1533.89	2408.92	3185.13	2408.92
North	U120-L119	1004	40.72	34.61	31.20	3.31	0.750	84.76	Silicon	32.29	1117.82	1832.50	2422.97	1832.50
North	U121-L120	1005	28.97	24.62	31.70	2.76	0.750	103.27	Silicon	26.14	643.55	1303.52	1723.54	1303.52
North	U122-L121	1006	43.70	37.14	33.10	3.34	0.750	89.30	Silicon	30.89	1147.49	1966.37	2599.97	1966.37
North	U123-L122	1007	55.78	47.41	35.70	3.77	0.750	85.25	Silicon	32.14	1524.10	2510.17	3319.01	2510.17

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Built Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L / $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U124-L123	1008	67.78	57.61	40.10	3.93	0.750	91.77	Silicon	30.10	1734.42	3050.17	4033.01	3050.17
North	U125-L124	1009	64.63	54.93	46.60	3.75	0.750	111.82	Silicon	22.88	1257.07	2908.15	3845.21	2908.15
North	U126-L125	1010	64.63	54.93	57.30	3.75	0.750	137.49	Silicon	15.14	831.66	2908.15	3845.21	2908.15

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	L0-L1	1	5.01	8.36	5.94	9.89	4.63	7.72	5.86	9.77	11.87	19.79	14.06	23.43	7.77	12.95	9.20	15.33	6.64	11.06	7.86	13.10	4.69	7.82	5.55	9.25	3.59	5.98	4.24	7.07	4.56	7.59	5.39	8.99
South	L1-L2	2	9.30	15.50	3.09	5.14	14.93	24.89	3.44	5.73	21.47	35.78	6.79	11.31	14.14	23.57	4.55	7.59	12.17	20.29	3.93	6.55	9.35	15.58	3.20	5.34	7.79	12.98	2.54	4.23	11.47	19.11	3.24	5.39
South	L2-L3	3	17.25	28.75	2.05	3.41	25.45	42.42	2.15	3.58	37.50	62.50	4.52	7.54	25.14	41.89	3.02	5.03	21.80	36.33	2.61	4.35	18.55	30.92	2.13	3.55	18.04	30.07	1.77	2.95	20.48	34.13	2.10	3.51
South	L3-L4	4	27.38	45.63	1.95	3.26	39.41	65.68	1.98	3.31	58.21	97.02	4.33	7.21	39.55	65.91	2.87	4.78	34.68	57.80	2.49	4.15	30.53	50.89	2.04	3.40	28.02	46.69	1.74	2.89	32.19	53.65	1.99	3.31
South	L4-L5	5	36.71	61.19	1.92	3.20	52.76	87.94	1.96	3.26	78.11	130.18	4.29	7.14	53.05	88.42	2.86	4.76	47.27	78.78	2.46	4.10	41.45	69.08	2.01	3.36	37.50	62.49	1.73	2.89	43.43	72.38	1.98	3.30
South	L5-L6	6	53.22	88.69	1.96	3.27	75.27	125.45	2.07	3.45	113.56	189.27	4.45	7.41	77.04	128.41	2.95	4.92	68.55	114.25	2.56	4.27	61.52	102.54	2.06	3.43	53.36	88.94	1.71	2.86	62.52	104.20	1.99	3.32
South	L6-L7	7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L7-L8	8	2.19	3.65	89.29	148.82	2.09	3.49	110.26	183.77	5.01	8.35	187.06	311.77	3.32	5.53	129.03	215.06	2.87	4.78	115.18	191.96	2.25	3.75	104.80	174.67	1.92	3.21	75.60	126.01	2.09	3.48	87.03	145.05
South	L8-L9	9	1.70	2.84	99.77	166.28	1.49	2.48	104.50	174.17	3.89	6.48	235.74	392.90	2.58	4.29	154.32	257.20	2.23	3.72	131.99	219.99	1.73	2.88	94.76	157.93	1.43	2.38	71.39	118.99	1.59	2.65	78.78	131.29
South	L9-L10	10	1.85	3.08	75.26	125.43	1.46	2.43	78.12	130.20	4.22	7.04	177.61	296.02	2.80	4.66	116.45	194.09	2.41	4.01	99.44	165.74	1.84	3.06	71.70	119.51	1.48	2.46	53.91	89.85	1.63	2.72	59.51	99.19
South	L10-L11	11	1.82	3.04	74.94	124.91	1.44	2.39	77.79	129.65	4.16	6.94	176.86	294.77	2.76	4.59	115.96	193.27	2.37	3.96	99.02	165.03	1.81	3.02	71.40	119.01	1.45	2.42	53.68	89.47	1.61	2.68	59.26	98.77
South	L11-L12	12	1.80	3.00	16.16	26.93	1.78	2.97	17.80	29.66	4.11	6.85	35.61	59.35	2.72	4.53	23.91	39.86	2.34	3.91	20.65	34.41	1.78	2.97	16.48	27.46	1.56	2.60	14.11	23.52	1.76	2.93	15.41	25.68
South	L12-L13	13	1.78	2.97	6.82	11.37	2.25	3.75	6.65	11.08	4.08	6.80	15.32	25.53	2.70	4.49	10.20	17.01	2.32	3.87	8.78	14.63	1.76	2.93	6.85	11.42	1.54	2.57	5.84	9.74	1.94	3.23	6.33	10.55
South	L13-L14	14	2.09	3.48	4.04	6.74	3.46	5.77	3.66	6.10	4.78	7.96	9.14	15.24	3.16	5.27	6.05	10.08	2.73	4.55	5.22	8.69	2.07	3.44	4.02	6.70	1.81	3.01	3.43	5.72	2.48	4.13	3.65	6.09
South	L14-L15	15	2.57	4.28	2.94	4.90	5.46	9.09	2.52	4.20	5.86	9.77	6.68	11.14	3.88	6.47	4.40	7.34	3.35	5.58	3.80	6.33	2.56	4.26	2.94	4.90	2.24	3.73	2.44	4.07	2.98	4.96	2.65	4.41
South	L15-L16	16	2.92	4.86	2.84	4.73	4.38	7.30	2.42	4.03	6.55	10.92	6.46	10.77	4.35	7.25	4.27	7.12	3.75	6.25	3.68	6.13	2.95	4.91	2.84	4.73	2.69	4.48	2.34	3.90	2.97	4.96	2.53	4.22
South	L16-L17	17	2.19	3.65	3.37	5.62	3.29	5.48	3.15	5.25	4.93	8.21	7.72	12.86	3.27	5.45	5.09	8.48	2.82	4.70	4.38	7.30	2.21	3.69	3.35	5.58	2.02	3.36	2.79	4.66	2.23	3.72	3.00	5.01
South	L17-L18	18	1.73	2.88	4.81	8.02	2.08	3.47	5.07	8.45	3.88	6.46	10.95	18.25	2.57	4.29	7.23	12.05	2.22	3.70	6.24	10.40	1.74	2.91	4.84	8.07	1.47	2.45	4.01	6.68	1.64	2.74	4.37	7.28
South	L18-L19	19	1.58	2.63	7.22	12.03	1.34	2.23	7.53	12.55	3.54	5.91	16.77	27.96	2.35	3.92	11.05	18.42	2.03	3.38	9.49	15.82	1.58	2.64	6.98	11.63	1.15	1.92	5.33	8.88	1.27	2.12	6.05	10.08
South	L19-L20	20	1.48	2.47	8.45	14.09	1.02	1.71	9.96	16.60	3.40	5.66	19.75	32.92	2.24	3.74	12.97	21.62	1.92	3.21	11.11	18.51	1.45	2.42	8.12	13.53	1.01	1.69	6.11	10.18	1.12	1.87	7.42	12.37
South	L20-L21	21	1.33	2.21	43.19	71.99	1.27	2.11	85.76	142.94	2.98	4.97	97.29	162.15	1.98	3.30	64.66	107.77	1.71	2.85	55.64	92.73	1.34	2.23	43.16	71.93	1.15	1.92	33.09	55.15	1.26	2.11	43.74	72.90
South	L21-L22	22	1.62	2.69	53.19	88.66	1.66	2.76	103.44	172.39	3.59	5.98	119.72	199.54	2.41	4.02	79.85	133.09	2.07	3.45	68.58	114.29	1.65	2.75	53.57	89.29	1.43	2.38	39.63	66.05	1.65	2.74	52.54	87.56
South	L22-L23	23	2.54	4.23	67.10	111.84	2.84	4.74	141.52	235.86	5.61	9.34	152.06	253.44	3.76	6.27	101.02	168.37	3.30	5.49	87.68	146.14	2.67	4.44	69.10	115.16	2.26	3.77	49.60	82.66	2.63	4.39	67.01	111.68
South	L23-L24	24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L24-L25	25	55.93	93.22	2.50	4.17	184.60	307.67	3.05	5.09	118.19	196.98	5.35	8.92	80.51	134.18	3.63	6.05	69.98	116.64	3.17	5.28	61.60	102.67	2.76	4.61	48.87	81.44	2.39	3.99	59.15	98.58	2.76	4.60
South	L25-L26	26	48.63	81.06	1.65	2.75	125.73	209.56	1.99	3.32	104.43	174.04	3.56	5.94	70.36	117.27	2.40	4.00	60.94	101.56	2.08	3.46	56.32	93.87	1.86	3.09	44.29	73.81	1.64	2.74	53.35	88.92	1.86	3.10
South	L26-L27	27	62.14	103.56	3.40	5.67	153.84	256.40	4.28	7.13	134.83	224.72	7.51	12.51	90.53	150.88	5.02	8.36	79.72	132.86	4.39	7.32	74.42	124.03	3.90	6.49	68.77	114.62	3.32	5.54	81.01	135.02	3.93	6.55
South	L27-L28	28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L28-L29	29	3.97	6.62	72.61	121.02	4.51	7.52	150.81	251.35	8.92	14.86	159.61	266.02	5.93	9.88	106.81	178.01	5.16	8.60	93.67	156.11	4.30	7.16	83.67	139.45	3.65	6.08	76.30	127.16	4.33	7.21	97.99	163.32
South	L29-L30	30	2.15	3.58	51.12	85.20	2.15	3.58	91.75	152.92	4.82	8.04	111.34	185.57	3.21	5.35	74.71	124.51	2.79	4.65	65.45	109.09	2.25	3.76	58.25	97.08	1.90	3.17	46.76	77.94	2.27	3.78	62.74	104.57
South	L30-L31	31	2.12	3.53	50.79	84.65	2.11	3.52	91.16	151.93	4.75	7.91	110.63	184.39	3.16	5.26	74.21	123.69	2.75	4.58	65.02	108.37	2.22	3.70	57.87	96.46	1.87	3.12	46.46	77.43	2.23	3.72	62.34	103.89
South	L31-L32	32	2.44	4.07	7.97	13.29	3.54	5.90	8.31	13.85	5.49	9.16	17.74	29.57	3.65	6.09	11.88	19.80	3.18	5.30	10.30	17.17	2.55	4.25	8.14	13.57	2.23	3.72	6.82	11.37	2.55	4.25	7.50	12.51
South	L32-L33	33	3.03	5.05	2.89	4.82	4.87	8.12	2.76	4.60	6.82	11.36	6.50	10.83	4.53	7.55	4.33	7.22	3.94	6.57	3.72	6.21	3.16	5.26	2.88	4.81	2.76	4.60	2.45	4.08	3.14	5.24	2.64	4.40
South	L33-L34	34	4.56	7.60	1.95	3.25	7.29	12.14	1.76	2.94	10.26	17.10	4.42	7.36	6.82	11.37	2.93	4.88	5.93	9.89	2.52	4.20	4.75	7.91	1.94	3.23	4.13	6.89	1.65	2.75	4.71	7.84	1.76	2.93
South	L34-L35	35	7.58	12.63	2.47	4.12	11.82	19.71	2.12	3.53	17.05	28.41	5.61	9.35	11.33	18.89	3.70	6.16	9.85	16.42	3.19	5.32	7.87	13.12	2.46	4.10	6.84	11.40	2.05	3.42	7.79	12.99	2.22	3.71
South	L35-L36	36	8.45	14.08	2.83	4.71	11.45	19.08	2.42	4.04	18.90	31.50	6.43	10.71	12.63	21.05	4.26	7.09	10.86	18.09	3.66	6.10	8.46	14.10	2.82	4.70	7.42	12.36	2.34	3.89	8.21	13.68	2.53	4.21
South	L36-L37	37	4.78	7.97	2.17	3.62	6.43	10.72	2.02	3.36	10.70	17.84	4.96	8.27	7.15	11.92	3.28	5.47	6.15	10.24	2.82	4.70	4.79	7.98	2.16	3.59	4.18	6.97	1.79	2.98	4.64	7.73	1.93	3.21
South	L37-L38	38	3.43	5.71	3.30	5.51	3.92	6.53	3.42	5.70	7.67	12.78	7.53	12.54	5.12	8.54	4.97	8.29	4.40	7.34	4.28	7.14	3.43	5.72	3.31	5.52	2.78	4.63	2.75	4.58	3.06	5.11	3.01	5.02
South	L38-L39	39	2.63	4.38	5.78	9.63	2.02	3.37	5.43	9.05	5.96	9.93	13.49	22.48	3.96	6.61	8.88	14.80	3.40	5.67	7.62	12.70	2.60	4.33	5.56	9.27	1.81	3.02	4.14	6.90	2.00	3.33	4.53	7.55
South	L39-L40	40	1.84	3.06	7.21	12.01	1.22	2.03	7.14	11.91	4.25	7.09	16.93	28.22	2.81	4.68	11.10	18.50	2.40	4.01	9.51	15.85	1.77	2.95	6.91	11.52	1.19	1.99	5.05	8.42	1.34	2.24	5.70	9.50
South	L40-L41	41	2.14	3.56	51.06	85.10	2.08	3.46	63.93	106.54	4.80	8.00	117.94	196.57	3.20	5.34	77.76	129.60	2.75	4.59	66.96	111.61	2.14	3.56	49.89	83.15	1.80	3.00	34.00	56.66	2.01	3.36	45.36	75.61
South	L41-L42	42	4.28	7.13	84.09	140.14	4.52	7.54	109.02	181.71	9.62	16.03	195.89	326.49	6.41	10.69	128.57	214.28	5.60	9.33	110.59	184.31	4.37	7.28	82.84	138.07	3.61	6.02	55.79	92.98	4.20	7.00	74.82	124.70
South	L42-L43	43	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L43-L44	44	75.54	125.89	3.56	5.94	204.99	341.65	4.03	6.72	155.60	259.33	7.81	13.01	105.98	176.64	5.25	8.76	93.02	155.03	4.59	7.65	89.63	149.38	3.78	6.30	67.76	112.94	3.27	5.44	86.37	143.96	3.74	6.23
South	L44-L45	45	59.29	98.82	1.92	3.19	181.26	302.11	2.02	3.37	126.78	211.30	4.19	6.98	84.89	141.48	2.81	4.69	74.27	123.78	2.43	4.05	65.97	109.94	2.03	3.39	51.80	86.33	1.80	3.00	64.17	106.95	2.03	3.38
South	L45-L46	46	65.44	109.06	1.96	3.27	198.13	330.22	2.06	3.44	145.92	243.20	4.32	7.20	97.09	161.82	2.89	4.81	84.68	141.14	2.51	4.19	70.97	118.28	2.10	3.50	54.45	90.75	1.84	3.06	63.85	106.41	2.09	3.48
South	L46-L47	47	107.44	179.07	3.96	6.60	313.70	522.83	4.28	7.14	235.69	392.81	8.85	14.75	157.65	262.75	5.89	9.82	138.31	230.51	5.14	8.56	120.91	201.52	4.31	7.19	85.92	143.21	3.66	6.09	101.57	169.29	4.25	7.09
South	L47-L48	48	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L48-L49	49	4.48	7.47	112.92	188.20	4.25	7.08	169.18	281.97	10.14	16.90	258.67	431.12	6.69	11.15	170.73	284.55	5.78	9.63	147.47	245.78	4.67	7.79	120.68	201.14	3.86	6.43	75.03	125.05	4.43	7.38	94.84	158.06
South	L49-L50	50	2.62	4.36	87.36	145.61	2.18	3.64	95.38	158.96	5.95	9.92	197.63	329.38	3.91	6.51	130.92	218.21	3.37	5.62	113.60	189.33	2.68	4.47	94.89	158.15	2.16	3.61	48.42	80.71	2.46	4.10	58.12	96.86
South	L50-L51	51	2.97	4.95	94.03	156.71	2.40	4.00	99.26	165.43	6.76	11.27	212.64	354.40	4.44	7.40	140.92	234.86	3.83	6.39	122.25	203.75	3.04	5.07	102.12	170.19	2.46	4.10	52.12	86.87	2.79	4.65	62.56	104.26
South	L51-L52	52	3.48	5.80	11.86	19.76	3.95	6.59	10.94	18.23	7.93	13.21	26.85	44.75	5.20	8.67	17.71	29.52	4.49	7.49	15.30	25.49	3.55	5.92	12.19	20.31	3.02	5.04	10.00	16.66	3.39	5.64	11.21	18.68
South	L52-L53	53	4.22	7.03	4.40	7.34	5.19	8.64	3.70	6.16	9.63	16.06	10.05	16.75	6.32	10.53	6.62	11.03	5.46	9.09	5.70	9.50	4.29	7.15	4.39	7.32	3.63	6.05	3.67	6.12	4.08	6.79	3.99	6.66
South	L53-L54	54	5.43	9.05	2.41	4.02	6.75	11.26	1.90	3.17	12.40	20.67	5.53	9.21	8.14	13.56	3.63	6.05	7.02	11.71	3.13	5.21	5.51	9.19	2.37	3.96	4.65	7.75	2.02	3.37	5.23	8.72	2.14	3.57
South	L54-L55	55	7.85	13.08	2.37	3.94	9.70	16.17	1.78	2.97	17.97	29.95	5.44	9.06	11.78	19.63	3.57	5.95	10.17	16.95	3.07	5.12	7.93	13.22	2.33	3.88	6.71	11.19	1.90	3.17	7.54	12.56	2.09	3.48
South	L55-L56	56	12.18	20.31	3.76	6.27	15.19	25.32	2.71	4.52	27.96	46.59	8.67	14.45	18.30	30.50	5.69	9.48	15.78	26.30	4.89	8.14	12.24	20.39	3.72	6.20	10.48	17.46	2.97	4.94	11.69	19.48	3.22	5.37
South	L56-L57	57	9.20	15.34	3.64	6.07	12.21	20.35	2.60	4.33	21.16	35.26	8.39	13.98	13.87	23.11	5.51	9.18	11.94	19.91	4.73	7.88	9.16	15.26	3.58	5.97	8.13	13.55	2.84	4.74	8.95	14.92	3.08	5.13
South	L57-L58	58	5.40	9.00	2.56	4.27	7.09	11.82	1.94	3.23	12.41	20.68	5.88	9.81	8.13	13.55	3.86	6.44	7.00	11.67	3.32	5.54	5.37	8.95	2.53	4.21	4.79	7.98	2.02	3.37	5.27	8.78	2.16	3.60
South	L58-L59	59	3.72	6.20	3.11	5.19	4.51	7.51	2.62	4.37	8.54	14.24	7.19	11.99	5.60	9.33	4.71	7.85	4.82	8.04	4.05	6.75	3.70	6.16	3.05	5.09	3.21	5.36	2.45	4.09	3.53	5.88	2.60	4.34
South	L59-L60	60	3.21	5.35	5.63	9.38	2.58	4.30	4.42	7.36	7.38	12.30	12.93	21.55	4.83	8.06	8.48	14.14	4.16	6.94	7.30	12.17	3.19	5.32	5.44	9.07	2.23	3.71	3.86	6.43	2.52	4.21	4.27	7.11
South	L60-L61	61	2.83	4.72	8.23	13.71	1.69	2.82	6.02	10.04	6.55	10.92	19.34	32.23	4.30	7.16	12.64	21.06	3.69	6.15	10.83	18.04	2.75	4.58	7.84	13.06	1.78	2.97	5.30	8.84	2.01	3.34	5.80	9.67
South	L61-L62	62	2.25	3.76	9.43	15.72	1.20	1.99	7.30	12.16	5.28	8.80	22.24	37.07	3.45	5.75	14.52	24.20	2.96	4.93	12.43	20.71	2.16	3.59	8.96	14.93	1.37	2.29	6.04	10.07	1.53	2.55	6.75	11.25
South	L62-L63	63	1.67	2.78	48.17	80.28	1.49	2.48	58.89	98.15	3.84	6.41	111.94	186.56	2.52	4.19	72.95	121.58	2.17	3.61	62.87	104.78	1.66	2.77	47.42	79.03	1.40	2.33	31.80	53.00	1.52	2.54	39.92	66.54
South	L63-L64	64	2.03	3.39	55.99	93.32	1.95	3.26	65.98	109.96	4.68	7.79	129.39	215.65	3.07	5.11	84.95	141.58	2.64	4.40	73.18	121.97	2.05	3.42	55.19	91.98	1.73	2.88	36.66	61.10	1.90	3.16	43.46	72.43
South	L64-L65	65	3.89	6.48	74.82	124.71	4.04	6.74	87.12	145.19	8.94	14.91	172.50	287.49	5.91	9.85	113.90	189.83	5.08	8.46	97.59	162.64	4.00	6.67	73.46	122.43	3.29	5.49	48.07	80.12	3.84	6.40	57.72	96.20

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	L65-L66	66	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L66-L67	67	59.24	98.73	3.36	5.60	181.12	301.87	3.85	6.41	131.94	219.90	7.62	12.69	87.10	145.17	5.03	8.38	75.55	125.91	4.34	7.24	66.70	111.17	3.63	6.05	48.58	80.97	3.04	5.07	65.10	108.50	3.55	5.92
South	L67-L68	68	49.06	81.77	1.68	2.80	160.65	267.76	1.87	3.11	108.46	180.77	3.78	6.30	70.78	117.97	2.48	4.13	61.78	102.96	2.15	3.58	52.75	87.92	1.79	2.98	41.47	69.12	1.57	2.62	51.87	86.46	1.78	2.97
South	L68-L69	69	52.09	86.82	1.75	2.92	143.58	239.30	1.92	3.21	116.02	193.37	3.92	6.53	75.63	126.05	2.57	4.28	65.80	109.67	2.22	3.71	54.82	91.37	1.85	3.09	40.75	67.92	1.63	2.71	49.45	82.42	1.84	3.07
South	L69-L70	70	69.92	116.54	3.57	5.95	158.59	264.31	3.98	6.64	156.01	260.01	8.02	13.37	103.61	172.69	5.33	8.88	88.85	148.08	4.60	7.67	74.76	124.60	3.82	6.36	48.39	80.65	3.20	5.34	62.06	103.44	3.78	6.30
South	L70-L71	71	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L71-L72	72	4.27	7.12	105.92	176.54	4.29	7.14	183.56	305.94	9.73	16.22	241.40	402.34	6.44	10.73	159.79	266.31	5.57	9.28	137.52	229.20	4.42	7.37	108.93	181.54	3.58	5.96	64.01	106.69	4.12	6.86	82.24	137.06
South	L72-L73	73	2.74	4.56	78.46	130.77	2.50	4.17	133.35	222.26	6.24	10.41	178.08	296.80	4.11	6.85	117.01	195.01	3.53	5.89	101.17	168.62	2.76	4.61	82.40	137.33	2.27	3.78	50.80	84.66	2.54	4.23	63.22	105.37
South	L73-L74	74	2.03	3.38	70.71	117.85	1.64	2.74	88.08	146.79	4.66	7.77	160.07	266.78	3.05	5.08	105.57	175.95	2.62	4.37	91.21	152.01	2.02	3.37	73.85	123.09	1.60	2.67	38.75	64.59	1.73	2.88	45.59	75.99
South	L74-L75	75	2.07	3.46	71.18	118.64	1.68	2.80	88.69	147.82	4.76	7.94	161.13	268.55	3.12	5.19	106.27	177.12	2.68	4.47	91.82	153.03	2.07	3.44	74.35	123.92	1.64	2.73	39.01	65.02	1.77	2.95	45.90	76.50
South	L75-L76	76	2.23	3.72	13.80	23.00	2.43	4.05	10.39	17.31	5.12	8.54	31.89	53.15	3.35	5.59	20.98	34.96	2.88	4.81	18.03	30.05	2.21	3.69	13.67	22.79	1.95	3.24	9.79	16.32	2.12	3.54	10.76	17.94
South	L76-L77	77	2.75	4.58	5.34	8.90	3.71	6.18	3.72	6.20	6.32	10.53	12.43	20.72	4.14	6.89	8.14	13.57	3.56	5.93	6.99	11.65	2.73	4.54	5.20	8.66	2.36	3.94	3.80	6.33	2.60	4.34	4.20	7.01
South	L77-L78	78	3.47	5.78	2.84	4.73	4.54	7.56	1.89	3.15	7.99	13.32	6.63	11.06	5.23	8.72	4.34	7.23	4.50	7.50	3.72	6.20	3.42	5.71	2.73	4.55	2.95	4.92	2.05	3.41	3.24	5.41	2.18	3.63
South	L78-L79	79	5.28	8.79	2.83	4.72	6.77	11.29	1.82	3.03	12.16	20.27	6.61	11.02	7.96	13.27	4.32	7.20	6.84	11.41	3.71	6.18	5.20	8.66	2.71	4.52	4.45	7.42	1.99	3.31	4.89	8.16	2.15	3.58
South	L79-L80	80	6.49	10.82	2.71	4.51	8.05	13.42	1.68	2.81	15.01	25.02	6.32	10.54	9.83	16.38	4.13	6.89	8.44	14.07	3.55	5.91	6.36	10.60	2.59	4.31	5.45	9.09	1.87	3.12	5.97	9.95	2.04	3.39
South	L80-L81	81	7.34	12.24	2.81	4.69	8.84	14.74	1.70	2.84	17.03	28.39	6.56	10.94	11.15	18.59	4.30	7.16	9.58	15.96	3.68	6.14	7.15	11.91	2.70	4.49	6.15	10.25	1.93	3.22	6.67	11.11	2.08	3.47
South	L81-L82	82	7.17	11.96	2.93	4.88	8.29	13.81	1.73	2.88	16.70	27.84	6.83	11.39	10.93	18.22	4.47	7.45	9.38	15.63	3.83	6.38	6.90	11.51	2.81	4.69	5.90	9.83	1.99	3.32	6.29	10.49	2.16	3.60
South	L82-L83	83	4.98	8.30	3.37	5.62	5.61	9.35	1.98	3.29	11.61	19.36	7.87	13.12	7.60	12.66	5.15	8.58	6.51	10.86	4.41	7.36	4.79	7.99	3.23	5.39	4.09	6.82	2.28	3.79	4.37	7.28	2.47	4.12
South	L83-L84	84	3.37	5.61	3.29	5.48	3.76	6.27	1.98	3.30	7.85	13.08	7.67	12.79	5.13	8.56	5.02	8.37	4.40	7.34	4.30	7.17	3.24	5.40	3.15	5.25	2.77	4.61	2.24	3.74	2.95	4.92	2.43	4.04
South	L84-L85	85	2.59	4.32	4.41	7.35	2.88	4.80	2.76	4.60	6.05	10.08	10.31	17.18	3.96	6.59	6.75	11.25	3.39	5.65	5.79	9.64	2.50	4.16	4.19	6.99	2.13	3.55	2.95	4.91	2.27	3.79	3.22	5.36
South	L85-L86	86	2.21	3.69	6.51	10.86	2.16	3.60	4.46	7.43	5.16	8.61	15.24	25.40	3.38	5.63	9.97	16.62	2.90	4.83	8.54	14.24	2.13	3.55	6.21	10.35	1.75	2.92	4.41	7.34	1.88	3.13	4.80	7.99
South	L86-L87	87	2.11	3.52	10.03	16.71	1.68	2.81	7.07	11.78	4.93	8.21	23.43	39.05	3.22	5.37	15.33	25.55	2.76	4.60	13.14	21.89	2.03	3.39	9.61	16.02	1.47	2.44	6.44	10.73	1.60	2.67	7.15	11.92
South	L87-L88	88	2.15	3.59	14.75	24.58	1.42	2.36	9.77	16.28	5.02	8.37	34.68	57.80	3.29	5.48	22.65	37.75	2.82	4.70	19.40	32.33	2.07	3.46	13.95	23.25	1.34	2.24	8.20	13.66	1.49	2.49	9.28	15.46
South	L88-L89	89	2.68	4.46	19.55	32.58	1.47	2.46	12.68	21.14	6.24	10.41	46.23	77.05	4.08	6.81	30.20	50.33	3.50	5.84	25.83	43.04	2.57	4.29	18.28	30.47	1.52	2.54	10.02	16.71	1.69	2.82	11.49	19.14
South	L89-L90	90	3.06	5.10	22.01	36.69	1.49	2.48	15.21	25.36	7.20	12.00	52.12	86.86	4.71	7.86	34.05	56.76	4.03	6.72	29.10	48.50	2.89	4.82	20.50	34.17	1.64	2.73	11.24	18.73	1.84	3.07	13.14	21.90
South	L90-L91	91	3.68	6.14	93.54	155.91	2.34	3.90	159.28	265.47	8.58	14.29	215.34	358.90	5.61	9.36	141.47	235.78	4.81	8.02	121.97	203.29	3.55	5.92	92.17	153.62	2.46	4.11	66.31	110.52	2.78	4.64	86.25	143.74
South	L91-L92	92	3.05	5.08	107.62	179.36	2.04	3.41	187.17	311.95	7.09	11.82	248.53	414.22	4.64	7.74	163.02	271.70	3.98	6.64	140.63	234.38	2.94	4.91	105.55	175.92	2.12	3.53	66.16	110.27	2.37	3.95	84.87	141.44
South	L92-L93	93	1.89	3.14	97.84	163.06	1.34	2.23	171.17	285.28	4.39	7.31	228.52	380.87	2.87	4.78	148.67	247.78	2.47	4.11	127.86	213.10	1.83	3.05	94.67	157.78	1.37	2.28	56.02	93.37	1.53	2.56	71.21	118.68
South	L93-L94	94	1.81	3.02	90.87	151.46	1.37	2.28	173.54	289.24	4.21	7.02	212.00	353.33	2.76	4.59	138.30	230.49	2.37	3.94	118.93	198.21	1.77	2.95	88.71	147.85	1.37	2.28	52.13	86.89	1.54	2.57	67.70	112.84
South	L94-L95	95	1.58	2.63	79.28	132.14	1.28	2.14	164.88	274.79	3.66	6.11	184.62	307.70	2.40	4.01	121.18	201.96	2.06	3.44	103.71	172.86	1.57	2.61	78.74	131.23	1.22	2.03	47.71	79.52	1.37	2.29	59.62	99.37
South	L95-L96	96	2.92	4.87	96.86	161.44	2.57	4.28	214.75	357.92	6.77	11.28	223.66	372.76	4.48	7.46	148.20	247.00	3.83	6.38	126.28	210.47	2.92	4.86	95.82	159.71	2.30	3.84	58.05	96.75	2.55	4.25	71.16	118.60
South	L96-L97	97	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L97-L98	98	63.50	105.84	2.19	3.65	181.05	301.76	2.09	3.48	145.63	242.72	5.05	8.42	97.05	161.76	3.34	5.57	82.42	137.37	2.86	4.77	64.47	107.45	2.23	3.72	42.22	70.37	1.82	3.04	51.00	85.01	2.02	3.37
South	L98-L99	99	62.00	103.33	1.86	3.09	180.41	300.68	1.75	2.91	142.73	237.89	4.26	7.10	93.27	155.46	2.79	4.66	80.49	134.15	2.41	4.01	63.14	105.23	1.88	3.14	43.59	72.65	1.58	2.64	53.46	89.11	1.76	2.93
South	L99-L100	100	67.18	111.97	1.93	3.21	200.09	333.48	1.79	2.98	154.50	257.51	4.39	7.31	100.55	167.59	2.88	4.79	86.77	144.62	2.48	4.13	67.52	112.54	1.95	3.25	47.61	79.35	1.66	2.76	57.42	95.70	1.82	3.03
South	L100-L101	101	67.43	112.38	1.95	3.25	195.23	325.39	1.81	3.02	153.73	256.22	4.45	7.41	100.55	167.58	2.91	4.85	86.89	144.82	2.51	4.18	67.57	112.62	1.97	3.29	47.55	79.25	1.68	2.80	57.24	95.39	1.84	3.07
South	L101-L102	102	61.94	103.23	1.86	3.10	173.84	289.73	1.74	2.90	141.31	235.52	4.24	7.06	92.13	153.55	2.78	4.64	79.45	132.42	2.40	4.00	62.17	103.62	1.87	3.12	43.13	71.88	1.57	2.62	52.72	87.87	1.75	2.92
South	L102-L103	103	59.36	98.94	1.96	3.26	164.03	273.38	1.86	3.09	134.68	224.47	4.49	7.48	89.33	148.89	2.96	4.94	77.00	128.34	2.56	4.27	60.74	101.23	1.99	3.31	39.46	65.77	1.62	2.71	47.82	79.70	1.79	2.98
South	L103-L104	104	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L104-L105	105	1.61	2.68	86.77	144.62	1.39	2.32	221.58	369.30	3.72	6.20	201.76	336.26	2.45	4.08	132.77	221.28	2.11	3.52	114.26	190.43	1.60	2.67	85.40	142.34	1.25	2.09	48.32	80.53	1.39	2.32	60.19	100.31
South	L105-L106	106	1.68	2.80	86.82	144.70	1.34	2.24	186.75	311.24	3.89	6.48	201.23	335.38	2.56	4.26	131.91	219.85	2.19	3.66	112.86	188.10	1.66	2.76	84.57	140.95	1.28	2.13	47.70	79.49	1.44	2.40	61.04	101.73
South	L106-L107	107	1.78	2.96	90.56	150.94	1.33	2.21	179.59	299.32	4.12	6.86	210.82	351.37	2.70	4.49	137.29	228.82	2.31	3.86	117.89	196.49	1.73	2.88	88.31	147.18	1.33	2.21	49.69	82.82	1.50	2.50	62.69	104.48
South	L107-L108	108	1.82	3.03	90.59	150.99	1.27	2.12	159.56	265.93	4.22	7.03	208.67	347.78	2.76	4.59	136.42	227.37	2.37	3.94	117.51	195.86	1.75	2.92	88.89	148.15	1.30	2.17	49.18	81.97	1.46	2.43	61.42	102.36
South	L108-L109	109	1.85	3.08	90.84	151.40	1.23	2.04	142.37	237.28	4.29	7.15	209.14	348.57	2.81	4.68	137.14	228.56	2.41	4.01	117.84	196.40	1.78	2.97	89.09	148.49	1.27	2.12	49.36	82.26	1.43	2.38	61.47	102.45
South	L109-L110	110	1.97	3.28	78.03	130.06	1.24	2.07	133.31	222.18	4.58	7.64	179.96	299.94	3.00	5.00	117.98	196.64	2.57	4.29	101.28	168.80	1.90	3.17	76.66	127.77	1.31	2.19	46.70	77.83	1.48	2.47	58.06	96.77
South	L110-L111	111	4.16	6.93	18.99	31.65	2.18	3.63	14.15	23.58	9.75	16.24	45.41	75.69	6.37	10.62	29.63	49.38	5.46	9.10	25.26	42.09	3.96	6.60	17.36	28.93	2.23	3.72	9.68	16.13	2.51	4.19	10.77	17.94
South	L111-L112	112	3.14	5.24	15.41	25.68	1.89	3.14	10.86	18.11	7.32	12.19	36.85	61.42	4.79	7.98	24.05	40.08	4.11	6.84	20.50	34.17	3.02	5.04	14.08	23.46	1.84	3.06	7.97	13.28	2.04	3.39	8.83	14.72
South	L112-L113	113	2.92	4.87	12.81	21.36	2.04	3.41	8.30	13.83	6.80	11.34	29.97	49.94	4.45	7.42	19.63	32.71	3.82	6.37	16.80	28.01	2.81	4.68	11.72	19.53	1.87	3.11	6.76	11.27	2.07	3.45	7.47	12.45
South	L113-L114	114	2.68	4.46	8.34	13.90	2.22	3.70	5.67	9.46	6.23	10.38	19.56	32.60	4.08	6.80	12.82	21.37	3.50	5.83	10.96	18.26	2.57	4.29	7.90	13.16	1.89	3.16	5.37	8.96	2.07	3.44	5.90	9.84
South	L114-L115	115	2.91	4.84	5.66	9.44	2.90	4.83	3.72	6.20	6.76	11.27	13.30	22.17	4.43	7.38	8.71	14.52	3.80	6.33	7.44	12.41	2.79	4.66	5.34	8.90	2.32	3.87	3.77	6.29	2.50	4.17	4.01	6.69
South	L115-L116	116	2.99	4.98	3.40	5.66	3.34	5.57	2.06	3.44	6.96	11.60	7.98	13.31	4.56	7.59	5.23	8.71	3.91	6.51	4.47	7.45	2.88	4.79	3.20	5.33	2.46	4.09	2.23	3.72	2.62	4.37	2.40	4.00
South	L116-L117	117	4.28	7.14	2.78	4.64	4.32	7.19	1.47	2.45	9.97	16.62	6.51	10.85	6.53	10.88	4.27	7.11	5.60	9.33	3.65	6.09	4.12	6.87	2.65	4.41	3.52	5.86	1.88	3.13	3.75	6.25	2.00	3.34
South	L117-L118	118	5.92	9.87	2.67	4.46	6.00	9.99	1.39	2.31	13.78	22.97	6.25	10.42	9.02	15.04	4.10	6.83	7.74	12.90	3.51	5.84	5.69	9.49	2.55	4.25	4.86	8.10	1.78	2.97	5.18	8.64	1.92	3.19
South	L118-L119	119	9.44	15.73	2.61	4.34	9.69	16.15	1.37	2.28	21.99	36.65	6.09	10.15	14.40	23.99	3.99	6.64	12.34	20.57	3.42	5.69	9.08	15.13	2.49	4.15	7.75	12.92	1.77	2.94	8.26	13.77	1.89	3.15
South	L119-L120	120	11.49	19.14	2.70	4.49	11.89	19.82	1.45	2.42	26.76	44.60	6.30	10.50	17.52	29.20	4.12	6.87	15.02	25.03	3.53	5.88	11.04	18.40	2.57	4.29	9.43	15.71	1.84	3.07	10.05	16.75	1.97	3.29
South	L120-L121	121	13.87	23.12	2.90	4.84	14.53	24.21	1.60	2.67	32.33	53.89	6.78	11.30	21.16	35.27	4.43	7.39	18.14	30.24	3.80	6.33	13.33	22.22	2.77	4.62	11.38	18.97	1.99	3.32	12.13	20.22	2.16	3.60
South	L121-L122	122	16.35	27.26	3.05	5.08	17.41	29.02	1.75	2.91	38.12	63.53	7.09	11.81	24.94	41.57	4.64	7.74	21.39	35.64	3.98	6.63	15.71	26.18	2.92	4.86	13.41	22.34	2.13	3.56	14.28	23.80	2.28	3.80
South	L122-L123	123	18.56	30.93	2.93	4.88	20.21	33.69	1.74	2.90	43.29	72.15	6.79	11.31	28.32	47.20	4.46	7.43	24.28	40.46	3.82	6.37	17.80	29.66	2.82	4.70	15.20	25.34	2.10	3.50	16.17	26.95	2.21	3.69
South	L123-L124	124	21.65	36.09	3.09	5.16	24.34	40.57	1.90	3.17	50.56	84.26	7.12	11.87	33.06	55.10	4.69	7.82	28.34	47.24	4.03	6.72	20.72	34.54	3.03	5.05	17.64	29.40	2.21	3.68	18.81	31.36	2.39	3.99
South	L124-L125	125	41.33	68.88	9.90	16.50	47.87	79.79	6.27	10.45	100.10	166.83	22.56	37.60	63.81	106.34	14.91	24.85	54.46	90.77	12.90	21.51	40.61	67.69	9.80	16.34	34.79	57.98	6.99	11.65	37.08	61.80	7.70	12.83
South	L125-L126	126	49.55	82.58	65.55	109.25	27.92	46.53	55.28	92.14	118.36	197.27	155.85	259.76	77.20	128.67	101.74	169.57	65.84	109.73	86.85	144.76	45.77	76.28	61.10	101.83	29.19	48.65	38.45	64.09	31.54	52.57	42.91	71.51
South	U0-U1	127	3.09	5.14	86.31	143.85	3.24	5.40	168.21	280.36	6.86	11.43	178.21	297.02	4.59	7.65	122.55	204.24	4.01	6.69	107.81	179.69	3.19	5.32	102.34	170.56	2.71	4.52	93.39	155.64	3.10	5.16	117.32	195.53
South	U1-U2	128	1.48	2.47	69.89	116.48	1.52	2.54	128.16	213.60	3.28	5.46	146.44	244.07	2.20	3.67	98.90	164.84	1.89	3.15	88.01	146.68	1.53	2.54	82.22	137.04	1.33	2.22	73.72	122.86	1.50	2.50	89.73	149.55
South	U2-U3	129	1.77	2.95	79.84	133.06	1.80	3.00	152.00	253.33	3.92	6.53	169.39	282.31	2.60	4.33	114.33	190.55	2.25	3.76	101.10	168.50	1.84	3.07	93.95	156.58	1.63	2.72	80.76	134.60	1.80	3.00	96.02	160.04
South	U3-U4	130	1.33	2.22	75.02	125.03	1.36	2.27	148.73	247.89	2.97	4.95	159.47	265.78	1.98	3.30	108.20	180.33	1.70	2.84	95.25	158.76	1.40	2.33	88.02	146.70	1.23	2.06	74.46	124.09	1.38	2.30	86.22	143.70

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	U4-U5	131	1.40	2.33	76.71	127.86	1.45	2.41	175.55	292.59	3.13	5.22	163.67	272.78	2.08	3.47	110.80	184.67	1.81	3.02	98.27	163.78	1.46	2.44	90.04	150.07	1.26	2.10	65.84	109.73	1.46	2.44	78.80	131.33
South	U5-U6	132	1.40	2.33	76.42	127.37	1.45	2.41	174.38	290.63	3.13	5.22	163.10	271.84	2.08	3.47	110.40	184.00	1.81	3.02	97.94	163.23	1.46	2.44	89.74	149.56	1.26	2.10	65.73	109.54	1.46	2.44	78.65	131.09
South	U6-U7	133	1.92	3.20	84.38	140.63	2.03	3.38	218.13	363.55	4.36	7.27	182.47	304.11	2.89	4.82	122.96	204.94	2.51	4.18	108.65	181.09	2.01	3.35	99.92	166.53	1.68	2.80	66.46	110.76	1.95	3.25	83.59	139.32
South	U7-U8	134	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U8-U9	135	77.22	128.69	2.57	4.29	166.87	278.11	2.46	4.09	174.45	290.75	5.88	9.80	115.79	192.98	3.89	6.49	100.59	167.66	3.37	5.61	82.25	137.08	2.63	4.38	54.70	91.16	2.18	3.63	60.28	100.47	2.37	3.96
South	U9-U10	136	80.16	133.59	2.43	4.05	170.70	284.49	2.11	3.52	181.20	301.99	5.56	9.27	120.25	200.41	3.68	6.13	104.45	174.09	3.18	5.31	83.19	138.65	2.46	4.10	50.02	83.37	1.98	3.30	59.34	98.90	2.17	3.62
South	U10-U11	137	14.35	23.92	2.28	3.80	14.30	23.83	2.26	3.77	32.30	53.84	5.22	8.70	21.54	35.89	3.45	5.75	18.75	31.26	2.98	4.97	14.46	24.10	2.26	3.77	12.01	20.02	1.98	3.30	13.19	21.98	2.24	3.74
South	U11-U12	138	6.01	10.02	2.29	3.82	5.64	9.40	2.90	4.83	13.54	22.57	5.24	8.74	9.04	15.06	3.47	5.78	7.76	12.93	3.00	5.00	5.98	9.97	2.28	3.79	5.05	8.42	2.00	3.33	5.45	9.08	2.55	4.25
South	U12-U13	139	3.53	5.89	2.62	4.36	3.16	5.27	4.36	7.26	8.00	13.34	5.98	9.97	5.30	8.84	3.96	6.59	4.56	7.61	3.42	5.70	3.50	5.84	2.60	4.33	2.99	4.98	2.29	3.82	3.17	5.29	3.24	5.40
South	U13-U14	140	2.49	4.15	3.03	5.04	2.12	3.53	6.52	10.86	5.65	9.41	6.92	11.53	3.72	6.21	4.58	7.63	3.22	5.36	3.95	6.59	2.48	4.13	3.01	5.02	2.06	3.44	2.66	4.43	2.23	3.72	3.56	5.94
South	U14-U15	141	2.13	3.55	3.54	5.90	1.72	2.87	5.95	9.91	4.85	8.09	8.02	13.37	3.20	5.33	5.32	8.86	2.76	4.59	4.59	7.65	2.13	3.56	3.54	5.91	1.74	2.91	3.12	5.19	1.93	3.21	3.78	6.31
South	U15-U16	142	2.13	3.55	3.54	5.89	1.72	2.87	5.95	9.91	4.85	8.09	8.02	13.37	3.20	5.33	5.32	8.86	2.76	4.59	4.59	7.65	2.13	3.56	3.54	5.91	1.74	2.91	3.12	5.19	1.93	3.21	3.78	6.31
South	U16-U17	143	2.23	3.72	3.24	5.40	1.89	3.15	4.81	8.01	5.09	8.48	7.28	12.13	3.37	5.62	4.83	8.06	2.90	4.83	4.17	6.94	2.22	3.70	3.27	5.45	1.83	3.06	2.93	4.89	1.99	3.31	3.29	5.49
South	U17-U18	144	2.88	4.80	2.62	4.37	2.56	4.27	3.88	6.47	6.55	10.91	5.90	9.83	4.34	7.23	3.92	6.53	3.73	6.22	3.38	5.63	2.87	4.79	2.65	4.42	2.40	4.01	2.36	3.94	2.58	4.29	2.67	4.44
South	U18-U19	145	4.54	7.57	2.09	3.49	4.39	7.32	2.94	4.90	10.27	17.12	4.71	7.85	6.82	11.36	3.13	5.21	5.89	9.82	2.70	4.49	4.61	7.69	2.12	3.53	3.85	6.41	1.88	3.13	4.21	7.02	2.13	3.54
South	U19-U20	146	10.62	17.71	2.20	3.66	12.18	20.31	2.44	4.06	23.82	39.70	4.95	8.24	15.89	26.49	3.28	5.47	13.83	23.05	2.83	4.72	11.07	18.45	2.22	3.70	9.36	15.60	1.95	3.26	10.32	17.20	2.23	3.71
South	U20-U21	147	31.19	51.99	2.18	3.63	36.39	60.66	2.08	3.47	67.74	112.91	4.84	8.06	45.44	75.74	3.23	5.39	39.97	66.61	2.79	4.64	31.31	52.18	2.23	3.71	23.60	39.33	1.82	3.03	26.56	44.27	2.17	3.61
South	U21-U22	148	18.63	31.05	3.51	5.86	25.98	43.30	3.72	6.19	40.31	67.18	7.83	13.05	27.18	45.30	5.23	8.72	23.99	39.99	4.55	7.58	21.61	36.02	3.70	6.16	18.15	30.25	2.94	4.90	21.79	36.31	3.65	6.09
South	U22-U23	149	10.74	17.90	12.78	21.30	18.53	30.89	19.68	32.81	24.01	40.02	28.60	47.66	15.90	26.50	18.93	31.56	13.76	22.94	16.39	27.31	10.86	18.10	12.91	21.51	8.56	14.26	10.17	16.95	11.62	19.37	13.84	23.06
South	U23-U24	150	1.90	3.17	18.54	30.90	2.46	4.10	29.90	49.83	4.08	6.80	41.49	69.15	2.77	4.61	27.46	45.77	2.40	4.00	23.80	39.66	2.05	3.42	19.32	32.20	1.80	3.00	14.71	24.52	2.12	3.54	20.23	33.72
South	U24-U25	151	1.30	2.16	28.61	47.68	1.58	2.64	48.63	81.05	2.80	4.67	63.86	106.43	1.87	3.12	42.40	70.67	1.63	2.72	36.67	61.12	1.43	2.38	30.23	50.38	1.31	2.18	24.20	40.34	1.45	2.42	30.63	51.05
South	U25-U26	152	1.30	2.16	28.60	47.66	1.58	2.64	48.61	81.02	2.80	4.67	63.83	106.38	1.87	3.12	42.39	70.65	1.63	2.72	36.66	61.10	1.43	2.38	30.22	50.36	1.31	2.18	24.20	40.34	1.45	2.42	30.61	51.01
South	U26-U27	153	1.49	2.48	40.14	66.90	1.83	3.06	82.25	137.09	3.23	5.38	87.48	145.80	2.17	3.62	58.72	97.87	1.88	3.14	50.95	84.91	1.66	2.76	43.04	71.73	1.48	2.47	36.15	60.25	1.67	2.78	46.43	77.39
South	U27-U28	154	2.99	4.99	64.37	107.28	3.81	6.34	156.88	261.47	6.62	11.04	142.43	237.38	4.42	7.37	95.14	158.57	3.87	6.45	83.08	138.46	3.40	5.67	71.67	119.44	2.90	4.83	53.77	89.62	3.42	5.69	73.30	122.16
South	U28-U29	155	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U29-U30	156	76.36	127.26	5.35	8.92	167.42	279.04	6.10	10.16	173.04	288.40	12.07	20.11	114.69	191.15	8.01	13.36	99.32	165.53	6.97	11.61	80.35	133.92	5.74	9.56	56.54	94.24	4.81	8.01	74.72	124.53	5.68	9.46
South	U30-U31	157	7.78	12.97	3.49	5.81	7.52	12.54	5.50	9.16	17.57	29.28	7.85	13.09	11.70	19.50	5.22	8.70	10.20	16.99	4.54	7.56	7.79	12.98	3.64	6.06	6.34	10.57	3.19	5.31	6.93	11.55	3.64	6.06
South	U31-U32	158	2.52	4.20	3.61	6.01	2.36	3.93	5.84	9.73	5.68	9.46	8.12	13.53	3.79	6.31	5.40	8.99	3.25	5.42	4.69	7.82	2.50	4.16	3.76	6.27	2.11	3.52	3.30	5.49	2.28	3.79	3.76	6.27
South	U32-U33	159	1.59	2.65	5.21	8.68	1.43	2.38	8.43	14.06	3.61	6.01	11.71	19.52	2.39	3.99	7.79	12.98	2.06	3.43	6.77	11.28	1.58	2.63	5.43	9.04	1.35	2.24	4.74	7.91	1.43	2.39	5.43	9.04
South	U33-U34	160	1.53	2.56	7.55	12.59	1.31	2.19	12.12	20.20	3.48	5.80	16.96	28.27	2.29	3.82	11.29	18.81	1.98	3.30	9.80	16.34	1.52	2.54	7.84	13.07	1.27	2.12	6.85	11.42	1.38	2.30	7.86	13.09
South	U34-U35	161	1.58	2.63	9.42	15.70	1.28	2.14	13.61	22.68	3.59	5.99	21.06	35.10	2.37	3.95	14.05	23.42	2.04	3.40	12.16	20.27	1.58	2.64	9.71	16.18	1.30	2.16	8.52	14.20	1.43	2.39	9.73	16.21
South	U35-U36	162	1.58	2.63	9.42	15.69	1.28	2.14	13.61	22.68	3.59	5.99	21.06	35.09	2.37	3.95	14.05	23.42	2.04	3.40	12.16	20.27	1.58	2.64	9.71	16.18	1.30	2.16	8.52	14.20	1.43	2.39	9.73	16.21
South	U36-U37	163	1.67	2.78	8.16	13.60	1.42	2.36	10.37	17.29	3.80	6.33	18.33	30.54	2.52	4.20	12.23	20.38	2.16	3.60	10.53	17.54	1.66	2.77	8.20	13.66	1.37	2.29	6.89	11.49	1.49	2.48	7.81	13.02
South	U37-U38	164	2.00	3.33	5.82	9.70	1.79	2.98	7.25	12.08	4.54	7.56	13.08	21.80	3.01	5.01	8.72	14.53	2.59	4.32	7.51	12.52	2.00	3.33	5.85	9.75	1.67	2.78	4.85	8.08	1.79	2.99	5.54	9.24
South	U38-U39	165	4.41	7.36	5.55	9.25	4.32	7.20	6.68	11.13	9.95	16.58	12.51	20.85	6.61	11.02	8.32	13.87	5.71	9.52	7.18	11.97	4.49	7.48	5.59	9.31	3.74	6.24	4.55	7.58	4.10	6.83	5.26	8.76
South	U39-U40	166	11.85	19.75	5.92	9.86	14.21	23.68	6.32	10.53	26.49	44.15	13.39	22.32	17.64	29.40	8.88	14.81	15.36	25.61	7.67	12.78	12.52	20.86	5.97	9.95	10.63	17.72	4.76	7.93	11.82	19.70	5.54	9.24
South	U40-U41	167	33.18	55.31	7.13	11.88	37.81	63.02	5.37	8.94	71.18	118.63	16.23	27.05	47.90	79.84	10.74	17.91	42.29	70.49	9.27	15.45	36.01	60.02	7.32	12.20	27.50	45.83	5.41	9.02	31.32	52.21	6.39	10.65
South	U41-U42	168	19.98	33.31	21.62	36.03	30.75	51.24	21.00	35.00	43.80	73.00	48.23	80.38	28.99	48.32	31.99	53.31	25.25	42.08	27.65	46.09	20.99	34.99	22.64	37.74	16.00	26.66	16.73	27.88	22.95	38.26	22.44	37.39
South	U42-U43	169	3.08	5.14	27.17	45.29	3.92	6.53	31.26	52.11	6.76	11.26	60.95	101.59	4.55	7.58	40.46	67.44	3.95	6.58	35.07	58.45	3.23	5.39	29.63	49.38	2.72	4.53	20.98	34.97	3.34	5.57	31.14	51.90
South	U43-U44	170	1.53	2.55	37.77	62.95	1.77	2.95	54.48	90.80	3.36	5.59	83.93	139.89	2.25	3.75	55.65	92.75	1.94	3.23	48.39	80.65	1.61	2.68	40.31	67.19	1.42	2.37	29.53	49.22	1.65	2.74	40.58	67.64
South	U44-U45	171	1.42	2.36	52.31	87.18	1.49	2.48	81.20	135.34	3.13	5.21	116.68	194.47	2.07	3.45	77.51	129.18	1.80	3.00	67.17	111.95	1.55	2.58	56.44	94.07	1.39	2.32	42.30	70.51	1.54	2.56	56.27	93.78
South	U45-U46	172	1.42	2.36	52.30	87.17	1.49	2.48	81.34	135.57	3.13	5.21	116.65	194.42	2.07	3.45	77.50	129.17	1.80	3.00	67.16	111.93	1.55	2.58	56.43	94.04	1.39	2.32	42.34	70.56	1.54	2.57	56.32	93.87
South	U46-U47	173	1.65	2.76	65.67	109.46	1.78	2.96	126.84	211.40	3.64	6.07	143.90	239.84	2.44	4.06	96.30	160.50	2.12	3.53	84.49	140.81	1.77	2.94	72.40	120.67	1.54	2.57	53.60	89.34	1.76	2.94	73.09	121.82
South	U47-U48	174	3.65	6.09	111.67	186.12	4.01	6.69	256.20	426.99	8.18	13.63	249.63	416.05	5.44	9.07	165.98	276.63	4.74	7.91	144.68	241.14	3.97	6.62	123.43	205.72	3.35	5.58	89.89	149.82	3.92	6.53	121.84	203.06
South	U48-U49	175	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U49-U50	176	141.04	235.07	8.06	13.43	256.37	427.29	8.09	13.48	331.15	551.92	18.29	30.48	216.97	361.61	12.06	20.10	185.55	309.26	10.40	17.34	141.15	235.24	8.38	13.97	94.95	158.25	6.97	11.62	118.35	197.25	8.01	13.35
South	U50-U51	177	11.82	19.70	5.18	8.64	9.71	16.18	6.61	11.02	27.17	45.28	11.82	19.70	17.86	29.77	7.75	12.92	15.45	25.74	6.69	11.15	11.81	19.68	5.28	8.81	9.33	15.55	4.58	7.63	10.36	17.27	5.12	8.54
South	U51-U52	178	4.10	6.83	5.25	8.74	3.20	5.33	6.56	10.94	9.40	15.67	11.97	19.95	6.19	10.31	7.85	13.08	5.33	8.88	6.78	11.29	4.06	6.76	5.34	8.91	3.37	5.62	4.62	7.71	3.62	6.04	5.17	8.62
South	U52-U53	179	2.11	3.51	6.30	10.49	1.60	2.67	8.02	13.36	4.85	8.08	14.37	23.95	3.18	5.31	9.43	15.71	2.74	4.56	8.14	13.56	2.07	3.45	6.41	10.68	1.75	2.92	5.53	9.22	1.85	3.09	6.20	10.33
South	U53-U54	180	1.77	2.95	8.44	14.06	1.30	2.17	10.91	18.18	4.07	6.79	19.28	32.13	2.67	4.45	12.64	21.06	2.30	3.83	10.91	18.18	1.73	2.89	8.55	14.25	1.42	2.36	7.39	12.32	1.55	2.59	8.30	13.84
South	U54-U55	181	1.79	2.99	10.48	17.46	1.28	2.13	13.83	23.06	4.14	6.90	23.99	39.98	2.72	4.53	15.71	26.18	2.33	3.89	13.54	22.57	1.77	2.95	10.56	17.60	1.41	2.36	9.18	15.30	1.53	2.55	10.33	17.21
South	U55-U56	182	1.73	2.88	9.98	16.63	1.19	1.98	12.96	21.59	3.98	6.64	22.96	38.27	2.61	4.36	15.04	25.07	2.24	3.74	12.96	21.59	1.70	2.84	9.93	16.55	1.38	2.30	8.66	14.43	1.47	2.44	9.71	16.18
South	U56-U57	183	1.73	2.88	9.98	16.63	1.19	1.98	12.96	21.59	3.98	6.64	22.96	38.27	2.61	4.36	15.04	25.07	2.24	3.74	12.96	21.59	1.70	2.84	9.93	16.55	1.38	2.30	8.66	14.43	1.47	2.44	9.70	16.17
South	U57-U58	184	1.03	1.72	6.22	10.37	**0.72**	1.20	7.99	13.31	2.38	3.97	14.32	23.87	1.56	2.60	9.38	15.64	1.34	2.23	8.08	13.46	1.01	1.69	6.19	10.32	**0.80**	1.33	5.35	8.91	**0.87**	1.44	6.04	10.07
South	U58-U59	185	2.16	3.60	5.77	9.62	1.56	2.61	7.29	12.14	4.97	8.28	13.30	22.16	3.26	5.44	8.71	14.52	2.80	4.67	7.50	12.50	2.12	3.53	5.75	9.58	1.69	2.82	4.91	8.18	1.86	3.09	5.60	9.33
South	U59-U60	186	2.87	4.78	3.91	6.51	2.18	3.63	4.82	8.03	6.58	10.96	8.99	14.99	4.32	7.21	5.90	9.83	3.72	6.20	5.07	8.45	2.83	4.72	3.89	6.48	2.36	3.93	3.28	5.47	2.49	4.16	3.78	6.29
South	U60-U61	187	5.71	9.52	3.11	5.18	4.71	7.86	3.62	6.04	12.97	21.62	7.16	11.94	8.54	14.24	4.70	7.83	7.36	12.27	4.04	6.73	5.75	9.58	3.10	5.16	4.75	7.92	2.58	4.30	5.15	8.58	3.00	5.00
South	U61-U62	188	14.59	24.32	3.01	5.01	14.28	23.81	2.65	4.41	32.92	54.86	6.93	11.55	21.71	36.19	4.54	7.57	18.69	31.15	3.91	6.51	15.03	25.05	3.00	4.99	12.72	21.21	2.45	4.09	13.91	23.18	2.89	4.82
South	U62-U63	189	43.15	71.92	5.31	8.85	43.06	71.77	4.52	7.53	96.54	160.90	12.24	20.39	63.76	106.26	8.03	13.38	55.30	92.16	6.91	11.52	46.04	76.73	5.38	8.97	30.16	50.27	4.22	7.03	33.44	55.74	4.85	8.08
South	U63-U64	190	27.34	45.57	6.11	10.18	29.37	48.94	5.50	9.16	60.10	100.16	14.12	23.54	40.16	66.94	9.26	15.43	34.85	58.09	7.96	13.27	30.48	50.81	6.26	10.44	20.98	34.96	4.64	7.73	23.78	39.63	5.44	9.07
South	U64-U65	191	15.58	25.97	20.07	33.45	16.71	27.84	20.06	33.43	35.35	58.92	45.57	75.96	23.22	38.69	29.93	49.88	19.99	33.32	25.77	42.94	15.66	26.10	20.13	33.55	10.97	18.29	13.89	23.15	13.19	21.98	17.10	28.50
South	U65-U66	192	2.91	4.85	26.24	43.73	3.44	5.73	28.85	48.08	6.59	10.99	59.49	99.15	4.34	7.24	39.26	65.44	3.75	6.25	33.80	56.34	3.11	5.18	26.80	44.66	2.53	4.21	17.74	29.57	2.97	4.96	22.44	37.39
South	U66-U67	193	1.23	2.06	31.73	52.88	1.40	2.34	39.19	65.32	2.78	4.63	71.67	119.44	1.82	3.03	47.28	78.81	1.58	2.63	40.74	67.90	1.30	2.16	32.37	53.95	1.13	1.89	22.23	37.05	1.34	2.23	28.85	48.09
South	U67-U68	194	1.38	2.30	44.49	74.15	1.49	2.49	61.66	102.77	3.09	5.15	99.51	165.85	2.03	3.38	65.62	109.36	1.75	2.92	56.64	94.41	1.51	2.51	46.41	77.35	1.34	2.24	32.80	54.67	1.52	2.53	41.20	68.66
South	U68-U69	195	1.38	2.30	44.50	74.16	1.49	2.49	62.00	103.34	3.09	5.15	99.50	165.83	2.03	3.38	65.60	109.34	1.75	2.92	56.65	94.41	1.51	2.51	46.49	77.48	1.34	2.24	32.87	54.78	1.52	2.53	41.32	68.86

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	U69-U70	196	1.61	2.68	50.08	83.46	1.81	3.01	89.09	148.49	3.61	6.01	111.28	185.47	2.36	3.93	72.93	121.55	2.04	3.41	63.39	105.65	1.69	2.82	52.19	86.98	1.48	2.47	38.54	64.24	1.72	2.86	51.61	86.02
South	U70-U71	197	3.14	5.24	71.87	119.78	3.59	5.98	151.57	252.61	7.07	11.78	159.74	266.24	4.69	7.82	105.88	176.47	4.05	6.75	91.02	151.70	3.35	5.58	76.68	127.79	2.81	4.69	53.70	89.50	3.33	5.55	70.14	116.90
South	U71-U72	198	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U72-U73	199	83.52	139.20	5.55	9.25	196.70	327.83	5.73	9.55	189.95	316.59	12.65	21.08	125.83	209.71	8.36	13.93	108.46	180.77	7.23	12.06	85.93	143.22	5.73	9.54	58.86	98.10	4.74	7.89	74.32	123.87	5.40	9.01
South	U73-U74	200	79.19	131.98	4.71	7.85	170.75	284.59	4.42	7.36	180.81	301.35	10.75	17.92	118.63	197.72	7.07	11.78	101.82	169.70	6.08	10.14	79.79	132.98	4.74	7.90	56.07	93.45	4.01	6.69	67.88	113.13	4.45	7.41
South	U74-U75	201	11.91	19.86	2.64	4.41	7.97	13.29	3.10	5.17	27.87	46.45	6.08	10.13	18.36	30.59	3.98	6.63	15.68	26.13	3.42	5.71	11.53	19.22	2.63	4.38	8.09	13.48	2.30	3.84	8.88	14.80	2.52	4.20
South	U75-U76	202	5.84	9.73	4.33	7.22	3.88	6.47	5.83	9.72	13.67	22.78	9.96	16.60	8.96	14.93	6.52	10.86	7.68	12.79	5.61	9.35	5.65	9.42	4.30	7.16	4.10	6.83	3.74	6.24	4.45	7.41	4.11	6.85
South	U76-U77	203	2.63	4.38	4.41	7.34	1.70	2.83	5.81	9.68	6.16	10.27	10.14	16.90	4.03	6.71	6.64	11.06	3.45	5.76	5.71	9.51	2.52	4.21	4.36	7.26	1.86	3.11	3.78	6.30	1.98	3.31	4.15	6.91
South	U77-U78	204	2.16	3.61	6.02	10.04	1.36	2.27	7.86	13.10	5.07	8.45	13.87	23.12	3.31	5.52	9.08	15.13	2.84	4.74	7.81	13.01	2.07	3.45	5.94	9.91	1.50	2.50	5.14	8.56	1.63	2.71	5.64	9.40
South	U78-U79	205	2.18	3.63	7.76	12.93	1.34	2.23	9.76	16.27	5.10	8.49	17.91	29.85	3.33	5.55	11.72	19.54	2.86	4.76	10.07	16.79	2.08	3.47	7.62	12.69	1.49	2.49	6.60	11.00	1.63	2.72	7.21	12.01
South	U79-U80	206	2.14	3.56	8.62	14.37	1.28	2.14	10.18	16.96	4.99	8.32	19.97	33.28	3.27	5.45	13.08	21.80	2.80	4.67	11.23	18.71	2.05	3.41	8.41	14.02	1.46	2.44	7.35	12.25	1.58	2.63	7.96	13.26
South	U80-U81	207	2.37	3.95	8.38	13.96	1.39	2.31	9.24	15.40	5.53	9.22	19.52	32.54	3.62	6.04	12.79	21.31	3.10	5.17	10.95	18.26	2.28	3.79	8.07	13.44	1.61	2.68	6.91	11.52	1.74	2.90	7.36	12.27
South	U81-U82	208	2.34	3.89	6.78	11.30	1.34	2.23	7.46	12.44	5.45	9.09	15.80	26.33	3.57	5.94	10.35	17.24	3.06	5.09	8.86	14.77	2.25	3.74	6.53	10.88	1.57	2.62	5.59	9.31	1.71	2.85	5.95	9.92
South	U82-U83	209	2.34	3.89	6.78	11.30	1.34	2.23	7.46	12.44	5.45	9.09	15.80	26.33	3.57	5.94	10.35	17.24	3.06	5.09	8.86	14.77	2.25	3.74	6.53	10.88	1.57	2.62	5.59	9.31	1.71	2.85	5.95	9.92
South	U83-U84	210	2.52	4.20	5.39	8.98	1.46	2.44	5.93	9.88	5.87	9.79	12.56	20.93	3.84	6.40	8.23	13.71	3.29	5.49	7.05	11.75	2.41	4.02	5.19	8.65	1.69	2.82	4.44	7.40	1.84	3.06	4.73	7.88
South	U84-U85	211	2.71	4.51	3.86	6.44	1.61	2.68	4.24	7.07	6.32	10.54	9.00	15.00	4.13	6.89	5.90	9.83	3.54	5.91	5.05	8.42	2.59	4.31	3.72	6.20	1.83	3.06	3.18	5.30	1.99	3.31	3.39	5.64
South	U85-U86	212	3.68	6.14	3.01	5.02	2.25	3.75	3.30	5.51	8.60	14.33	7.03	11.71	5.62	9.37	4.60	7.67	4.82	8.03	3.94	6.57	3.52	5.86	2.90	4.84	2.50	4.17	2.48	4.14	2.74	4.56	2.64	4.40
South	U86-U87	213	5.69	9.49	2.61	4.34	3.60	6.00	2.80	4.67	13.27	22.11	6.08	10.13	8.67	14.46	3.98	6.63	7.44	12.40	3.41	5.68	5.45	9.08	2.51	4.18	3.95	6.58	2.14	3.57	4.27	7.12	2.28	3.80
South	U87-U88	214	9.57	15.95	2.57	4.29	6.36	10.61	2.37	3.95	22.27	37.12	6.00	10.00	14.57	24.28	3.93	6.54	12.51	20.84	3.37	5.61	9.21	15.35	2.48	4.13	6.85	11.42	2.12	3.53	7.34	12.24	2.25	3.75
South	U88-U89	215	17.39	28.98	2.72	4.53	12.40	20.66	2.14	3.57	40.26	67.09	6.34	10.57	26.39	43.99	4.15	6.92	22.66	37.77	3.56	5.93	16.91	28.18	2.62	4.36	12.64	21.07	2.08	3.47	13.82	23.04	2.27	3.78
South	U89-U90	216	40.75	67.91	3.09	5.15	31.58	52.63	2.10	3.51	93.92	156.54	7.21	12.02	61.93	103.21	4.72	7.86	53.22	88.69	4.04	6.74	40.21	67.02	2.97	4.96	24.41	40.69	2.20	3.67	27.19	45.32	2.42	4.04
South	U90-U91	217	86.77	144.62	2.91	4.85	116.83	194.71	1.87	3.12	201.77	336.28	6.78	11.30	131.93	219.89	4.43	7.39	113.42	189.03	3.80	6.34	83.79	139.64	2.80	4.67	37.91	63.18	1.96	3.27	45.63	76.04	2.19	3.64
South	U91-U92	218	82.12	136.87	2.69	4.49	121.51	202.52	1.85	3.09	190.95	318.25	6.28	10.46	124.94	208.24	4.10	6.84	107.34	178.90	3.53	5.88	79.70	132.84	2.61	4.35	38.47	64.11	1.91	3.18	46.71	77.85	2.13	3.55
South	U92-U93	219	75.78	126.29	2.47	4.12	120.83	201.39	1.83	3.04	176.07	293.45	5.76	9.59	115.42	192.37	3.77	6.28	99.02	165.03	3.23	5.39	74.20	123.66	2.41	4.02	38.96	64.94	1.84	3.07	47.46	79.11	2.07	3.44
South	U93-U94	220	68.41	114.01	2.26	3.76	119.29	198.82	1.80	3.00	158.62	264.37	5.24	8.74	104.49	174.15	3.44	5.73	89.31	148.85	2.95	4.92	67.53	112.54	2.24	3.73	37.13	61.89	1.72	2.87	47.39	78.99	1.94	3.23
South	U94-U95	221	69.39	115.64	2.70	4.50	128.55	214.25	2.33	3.88	159.65	266.08	6.26	10.43	105.59	175.98	4.14	6.90	90.31	150.51	3.54	5.90	67.99	113.32	2.69	4.48	38.29	63.82	2.10	3.50	47.85	79.75	2.33	3.89
South	U95-U96	222	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U96-U97	223	2.06	3.44	70.27	117.12	1.93	3.22	136.60	227.66	4.76	7.93	160.75	267.92	3.15	5.25	106.88	178.14	2.70	4.50	91.09	151.81	2.10	3.49	70.47	117.45	1.69	2.82	44.25	73.74	1.88	3.13	51.75	86.24
South	U97-U98	224	1.54	2.56	61.85	103.09	1.42	2.37	115.87	193.11	3.53	5.88	142.11	236.85	2.32	3.86	93.33	155.55	1.99	3.32	80.27	133.78	1.56	2.59	62.56	104.26	1.30	2.16	41.50	69.17	1.43	2.39	47.33	78.89
South	U98-U99	225	1.32	2.20	58.72	97.86	1.21	2.02	102.50	170.84	3.02	5.03	135.12	225.20	1.98	3.29	88.33	147.22	1.70	2.84	76.23	127.05	1.33	2.22	58.29	97.14	1.13	1.88	40.04	66.74	1.23	2.04	44.60	74.33
South	U99-U100	226	1.33	2.21	54.50	90.84	1.21	2.01	88.51	147.51	3.02	5.03	124.81	208.02	1.98	3.30	81.65	136.08	1.70	2.84	70.35	117.24	1.37	2.28	54.32	90.54	1.14	1.89	35.61	59.36	1.29	2.14	43.38	72.30
South	U100-U101	227	1.33	2.21	54.52	90.87	1.21	2.01	88.50	147.50	3.02	5.03	124.84	208.07	1.98	3.30	81.68	136.13	1.70	2.84	70.37	117.28	1.37	2.28	54.35	90.58	1.14	1.89	35.62	59.36	1.29	2.14	43.38	72.31
South	U101-U102	228	1.30	2.16	47.84	79.73	1.18	1.97	74.86	124.76	2.96	4.93	109.32	182.21	1.94	3.23	71.75	119.58	1.67	2.78	61.69	102.81	1.31	2.19	48.25	80.42	1.10	1.84	32.97	54.95	1.21	2.02	38.91	64.86
South	U102-U103	229	1.30	2.16	37.28	62.14	1.19	1.99	54.36	90.61	2.96	4.94	84.22	140.37	1.94	3.24	55.61	92.68	1.68	2.79	47.82	79.69	1.31	2.18	37.92	63.20	1.10	1.83	27.52	45.87	1.21	2.01	30.30	50.49
South	U103-U104	230	1.52	2.54	23.74	39.57	1.43	2.38	32.70	54.50	3.47	5.79	53.75	89.58	2.30	3.83	35.53	59.22	1.98	3.30	30.55	50.92	1.55	2.58	23.80	39.67	1.27	2.12	17.58	29.30	1.40	2.33	20.11	33.52
South	U104-U105	231	11.94	19.90	17.49	29.15	11.40	19.00	22.00	36.67	27.41	45.68	39.96	66.60	17.98	29.97	26.21	43.69	15.45	25.75	22.55	37.59	11.79	19.66	17.43	29.04	9.40	15.66	14.07	23.45	10.69	17.81	16.22	27.04
South	U105-U106	232	21.26	35.44	2.66	4.43	29.56	49.27	2.44	4.07	48.13	80.22	6.21	10.36	32.03	53.39	4.07	6.79	27.52	45.87	3.50	5.83	21.78	36.30	2.61	4.35	21.59	35.98	2.13	3.55	24.21	40.35	2.38	3.97
South	U106-U107	233	42.45	70.75	2.56	4.27	52.17	86.96	2.10	3.51	96.46	160.77	5.96	9.93	64.07	106.78	3.91	6.52	55.02	91.70	3.36	5.61	43.68	72.80	2.50	4.17	37.94	63.23	2.02	3.36	42.80	71.34	2.27	3.78
South	U107-U108	234	61.63	102.72	2.75	4.58	65.86	109.76	2.07	3.45	140.02	233.37	6.37	10.62	92.41	154.02	4.19	6.98	80.29	133.82	3.59	5.98	62.26	103.76	2.66	4.44	48.41	80.68	2.12	3.53	55.23	92.06	2.34	3.90
South	U108-U109	235	76.14	126.90	2.93	4.88	69.99	116.65	2.06	3.43	173.27	288.78	6.82	11.36	114.25	190.42	4.47	7.45	99.22	165.36	3.83	6.38	77.58	129.29	2.83	4.71	52.69	87.81	2.16	3.61	56.80	94.66	2.37	3.95
South	U109-U110	236	80.75	134.58	3.30	5.50	65.90	109.84	2.17	3.62	190.18	316.97	7.69	12.82	125.54	209.24	5.03	8.39	107.12	178.54	4.31	7.19	74.38	123.97	3.17	5.28	50.65	84.41	2.32	3.87	56.45	94.08	2.55	4.25
South	U110-U111	237	31.01	51.69	3.57	5.95	24.74	41.23	2.53	4.21	71.79	119.65	8.34	13.90	47.04	78.39	5.46	9.09	40.48	67.47	4.68	7.79	30.34	50.56	3.43	5.72	22.28	37.13	2.55	4.25	24.42	40.70	2.76	4.60
South	U111-U112	238	15.99	26.66	3.24	5.40	11.68	19.47	2.66	4.43	37.22	62.03	7.56	12.59	24.40	40.67	4.94	8.24	20.91	34.85	4.24	7.06	15.34	25.57	3.11	5.19	11.38	18.97	2.44	4.07	12.25	20.42	2.66	4.43
South	U112-U113	239	9.57	15.95	3.20	5.33	6.21	10.35	3.09	5.15	22.25	37.08	7.46	12.44	14.59	24.32	4.88	8.13	12.52	20.86	4.18	6.97	9.11	15.18	3.08	5.13	6.67	11.12	2.61	4.35	7.05	11.74	2.78	4.64
South	U113-U114	240	5.33	8.89	2.94	4.90	3.30	5.50	3.23	5.38	12.43	20.72	6.86	11.43	8.15	13.58	4.49	7.48	6.98	11.64	3.85	6.41	5.10	8.49	2.83	4.71	3.65	6.09	2.40	4.00	3.92	6.54	2.56	4.26
South	U114-U115	241	3.08	5.13	3.12	5.20	1.84	3.07	3.43	5.71	7.19	11.98	7.28	12.14	4.71	7.85	4.76	7.94	4.04	6.73	4.08	6.80	2.93	4.89	3.00	5.00	2.07	3.45	2.55	4.25	2.24	3.74	2.72	4.53
South	U115-U116	242	2.32	3.86	4.23	7.05	1.35	2.25	4.65	7.75	5.41	9.02	9.87	16.44	3.55	5.91	6.45	10.75	3.04	5.06	5.53	9.22	2.21	3.68	4.07	6.78	1.55	2.59	3.45	5.76	1.67	2.78	3.68	6.14
South	U116-U117	243	2.35	3.92	6.53	10.88	1.21	2.02	6.45	10.75	5.49	9.15	15.22	25.36	3.60	6.00	9.95	16.59	3.08	5.13	8.53	14.22	2.24	3.74	6.27	10.46	1.57	2.61	5.33	8.88	1.69	2.82	5.68	9.47
South	U117-U118	244	2.11	3.52	8.30	13.83	1.08	1.80	8.22	13.70	4.94	8.23	19.35	32.25	3.23	5.39	12.66	21.09	2.77	4.61	10.85	18.08	2.02	3.36	7.98	13.30	1.41	2.36	6.78	11.30	1.53	2.54	7.23	12.05
South	U118-U119	245	2.11	3.52	8.29	13.82	1.08	1.80	8.22	13.70	4.93	8.22	19.33	32.22	3.23	5.38	12.64	21.07	2.76	4.61	10.84	18.07	2.02	3.36	7.97	13.29	1.41	2.36	6.77	11.29	1.52	2.54	7.22	12.04
South	U119-U120	246	2.04	3.40	10.35	17.26	1.06	1.77	10.27	17.12	4.77	7.94	24.15	40.24	3.12	5.20	15.79	26.32	2.67	4.45	13.54	22.56	1.95	3.25	9.96	16.60	1.38	2.30	8.46	14.10	1.48	2.47	9.02	15.04
South	U120-U121	247	2.07	3.45	12.71	21.19	1.11	1.85	12.61	21.01	4.84	8.06	29.64	49.40	3.17	5.28	19.38	32.31	2.71	4.52	16.62	27.70	1.98	3.30	12.23	20.38	1.42	2.36	10.39	17.32	1.52	2.54	11.08	18.47
South	U121-U122	248	2.15	3.59	15.35	25.58	1.19	1.98	15.24	25.40	5.02	8.37	35.78	59.64	3.29	5.48	23.40	39.00	2.82	4.70	20.06	33.44	2.06	3.43	14.76	24.60	1.48	2.46	12.55	20.92	1.61	2.69	13.38	22.31
South	U122-U123	249	2.08	3.46	17.80	29.67	1.19	1.99	17.70	29.49	4.83	8.05	41.50	69.17	3.16	5.27	27.14	45.23	2.71	4.52	23.27	38.79	1.99	3.32	17.12	28.54	1.45	2.42	14.56	24.27	1.56	2.60	15.53	25.88
South	U123-U124	250	2.21	3.68	20.92	34.87	1.32	2.21	20.90	34.83	5.12	8.53	48.70	81.17	3.36	5.60	31.88	53.14	2.88	4.80	27.34	45.57	2.13	3.56	20.13	33.54	1.58	2.64	17.18	28.64	1.68	2.80	18.33	30.54
South	U124-U125	251	2.99	4.98	26.53	44.22	1.89	3.16	26.64	44.39	6.89	11.49	61.77	102.95	4.54	7.57	40.44	67.40	3.90	6.51	34.68	57.80	2.94	4.90	25.52	42.53	2.13	3.54	21.80	36.33	2.32	3.86	23.24	38.74
South	U125-U126	252	9.52	15.86	54.78	91.31	6.37	10.61	55.15	91.92	21.90	36.51	127.55	212.59	14.42	24.04	83.51	139.19	12.46	20.76	71.61	119.35	9.44	15.74	52.68	87.80	6.74	11.24	45.00	75.00	7.47	12.45	47.98	79.97
North	L0-L1	253	4.98	8.30	5.97	9.95	3.87	6.45	4.86	8.11	11.79	19.65	14.14	23.57	7.72	12.86	9.25	15.42	6.59	10.99	7.91	13.18	4.66	7.76	5.58	9.31	3.56	5.94	4.27	7.12	4.52	7.53	5.43	9.06
North	L1-L2	254	9.27	15.45	3.10	5.17	10.62	17.69	3.31	5.52	21.40	35.66	6.82	11.36	14.10	23.49	4.57	7.62	12.13	20.22	3.95	6.58	9.32	15.53	3.22	5.36	7.76	12.93	2.55	4.25	11.42	19.04	3.25	5.42
North	L2-L3	255	17.21	28.68	2.05	3.42	18.13	30.22	2.14	3.56	37.43	62.38	4.53	7.55	25.09	41.81	3.02	5.04	21.76	36.26	2.61	4.36	18.50	30.83	2.13	3.55	18.00	30.00	1.78	2.96	20.42	34.03	2.11	3.52
North	L3-L4	256	27.33	45.55	1.95	3.26	27.96	46.61	1.98	3.29	58.14	96.91	4.33	7.21	39.49	65.82	2.87	4.78	34.64	57.73	2.49	4.15	30.45	50.75	2.04	3.40	27.97	46.61	1.74	2.89	32.12	53.53	1.99	3.31
North	L4-L5	257	36.66	61.10	1.92	3.20	37.66	62.77	1.95	3.24	78.04	130.06	4.28	7.14	53.00	88.33	2.86	4.76	47.21	78.69	2.46	4.10	41.34	68.91	2.01	3.35	37.45	62.41	1.73	2.89	43.34	72.23	1.98	3.30
North	L5-L6	258	53.14	88.57	1.96	3.27	52.18	86.96	2.06	3.43	113.45	189.08	4.44	7.40	76.97	128.29	2.95	4.91	68.47	114.11	2.56	4.26	61.36	102.27	2.06	3.43	53.32	88.86	1.71	2.85	62.41	104.01	1.99	3.32
North	L6-L7	259	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L7-L8	260	2.19	3.65	88.98	148.30	2.09	3.48	77.25	128.75	5.01	8.34	186.74	311.24	3.31	5.52	128.75	214.59	2.87	4.78	114.79	191.32	2.25	3.75	104.41	174.01	1.92	3.20	75.42	125.70	2.09	3.48	86.74	144.57

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	L8-L9	261	1.70	2.84	99.33	165.55	1.48	2.47	67.62	112.69	3.89	6.48	234.71	391.19	2.57	4.29	153.64	256.06	2.23	3.71	131.42	219.03	1.73	2.88	94.32	157.21	1.42	2.37	71.05	118.42	1.59	2.65	78.40	130.67
North	L9-L10	262	1.85	3.08	75.09	125.16	1.45	2.42	64.25	107.08	4.22	7.03	177.22	295.36	2.79	4.65	116.20	193.67	2.41	4.01	99.23	165.38	1.83	3.06	71.54	119.24	1.47	2.46	53.79	89.65	1.63	2.72	59.38	98.96
North	L10-L11	263	1.82	3.03	74.78	124.64	1.43	2.39	63.97	106.62	4.16	6.93	176.48	294.13	2.75	4.59	115.71	192.85	2.37	3.95	98.81	164.68	1.81	3.01	71.24	118.73	1.45	2.42	53.56	89.27	1.61	2.68	59.13	98.54
North	L11-L12	264	1.80	3.00	16.10	26.84	1.78	2.97	17.07	28.45	4.11	6.86	35.49	59.15	2.72	4.53	23.84	39.73	2.35	3.91	20.58	34.30	1.78	2.97	16.41	27.36	1.56	2.61	14.05	23.41	1.76	2.94	15.34	25.56
North	L12-L13	265	1.78	2.97	6.80	11.34	2.26	3.76	6.36	10.60	4.08	6.81	15.28	25.46	2.70	4.50	10.18	16.96	2.33	3.88	8.76	14.59	1.76	2.94	6.83	11.39	1.54	2.57	5.82	9.71	1.94	3.24	6.31	10.51
North	L13-L14	266	2.09	3.49	4.03	6.71	3.47	5.78	3.47	5.79	4.79	7.98	9.11	15.19	3.17	5.28	6.03	10.04	2.73	4.56	5.20	8.67	2.07	3.45	4.00	6.67	1.81	3.02	3.42	5.70	2.48	4.14	3.64	6.06
North	L14-L15	267	2.58	4.29	2.93	4.88	5.49	9.15	2.40	4.00	5.88	9.79	6.66	11.10	3.89	6.48	4.39	7.31	3.36	5.59	3.78	6.31	2.57	4.28	2.92	4.87	2.25	3.74	2.43	4.05	2.99	4.98	2.63	4.39
North	L15-L16	268	2.93	4.88	2.82	4.71	4.39	7.32	2.39	3.99	6.57	10.95	6.43	10.71	4.36	7.27	4.25	7.08	3.76	6.27	3.66	6.09	2.96	4.93	2.82	4.70	2.70	4.50	2.33	3.88	2.98	4.97	2.52	4.20
North	L16-L17	269	2.20	3.67	3.35	5.58	3.30	5.50	3.01	5.01	4.94	8.24	7.67	12.79	3.28	5.47	5.06	8.44	2.83	4.71	4.35	7.26	2.22	3.70	3.33	5.54	2.02	3.37	2.78	4.63	2.24	3.74	2.98	4.97
North	L17-L18	270	1.73	2.89	4.78	7.97	2.08	3.47	4.44	7.40	3.89	6.49	10.89	18.14	2.58	4.31	7.19	11.98	2.23	3.71	6.20	10.33	1.75	2.92	4.81	8.01	1.48	2.46	3.98	6.64	1.65	2.76	4.34	7.23
North	L18-L19	271	1.58	2.64	7.19	11.98	1.27	2.11	5.88	9.80	3.56	5.93	16.68	27.80	2.36	3.94	10.99	18.31	2.04	3.39	9.45	15.75	1.59	2.65	6.95	11.58	1.16	1.93	5.30	8.84	1.28	2.13	6.02	10.03
North	L19-L20	272	1.48	2.47	8.43	14.06	**0.90**	1.50	7.01	11.68	3.41	5.68	19.71	32.85	2.25	3.75	12.95	21.58	1.93	3.22	11.08	18.47	1.46	2.43	8.10	13.50	1.02	1.69	6.09	10.15	1.13	1.88	7.39	12.32
North	L20-L21	273	1.32	2.21	43.25	72.08	1.24	2.07	67.78	112.97	2.97	4.96	97.40	162.34	1.98	3.29	64.74	107.90	1.70	2.84	55.71	92.85	1.34	2.23	43.23	72.04	1.15	1.92	33.14	55.24	1.26	2.10	43.78	72.97
North	L21-L22	274	1.61	2.69	53.28	88.81	1.64	2.73	88.59	147.65	3.58	5.97	119.91	199.84	2.41	4.01	79.99	133.31	2.06	3.44	68.69	114.49	1.65	2.74	53.68	89.47	1.42	2.37	39.70	66.17	1.64	2.74	52.51	87.52
North	L22-L23	275	2.53	4.22	67.18	111.97	2.81	4.69	144.39	240.65	5.60	9.34	152.21	253.68	3.76	6.26	101.14	168.56	3.29	5.49	87.77	146.29	2.66	4.44	69.20	115.33	2.26	3.76	49.66	82.77	2.63	4.38	67.02	111.71
North	L23-L24	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L24-L25	277	55.96	93.26	2.50	4.17	150.35	250.58	3.00	4.99	118.22	197.04	5.35	8.91	80.54	134.24	3.63	6.04	70.02	116.69	3.17	5.28	61.62	102.70	2.76	4.60	48.85	81.41	2.39	3.98	59.13	98.55	2.76	4.60
North	L25-L26	278	48.67	81.11	1.65	2.75	87.58	145.96	1.94	3.24	104.49	174.16	3.56	5.93	70.41	117.36	2.40	4.00	60.99	101.65	2.08	3.46	56.36	93.94	1.85	3.09	44.19	73.65	1.64	2.73	53.45	89.09	1.85	3.09
North	L26-L27	279	62.17	103.61	3.40	5.67	111.23	185.38	4.18	6.97	134.84	224.73	7.50	12.51	90.55	150.92	5.02	8.36	79.75	132.91	4.39	7.32	74.48	124.13	3.89	6.49	68.89	114.82	3.32	5.53	81.14	135.23	3.93	6.54
North	L27-L28	280	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L28-L29	281	3.97	6.62	72.58	120.97	4.50	7.50	117.42	195.70	8.92	14.86	159.49	265.81	5.93	9.88	106.73	177.88	5.16	8.60	93.62	156.03	4.30	7.16	83.69	139.49	3.65	6.08	76.32	127.20	4.33	7.22	98.43	164.05
North	L29-L30	282	2.15	3.58	51.06	85.09	2.11	3.52	64.39	107.32	4.82	8.04	111.14	185.24	3.21	5.35	74.59	124.31	2.79	4.65	65.37	108.95	2.25	3.76	58.27	97.12	1.90	3.17	46.96	78.26	2.27	3.78	63.14	105.23
North	L30-L31	283	2.12	3.53	50.72	84.54	2.08	3.47	63.98	106.64	4.75	7.91	110.44	184.06	3.16	5.26	74.10	123.50	2.75	4.58	64.95	108.25	2.22	3.70	57.89	96.48	1.88	3.13	46.65	77.75	2.23	3.72	62.73	104.54
North	L31-L32	284	2.45	4.09	7.91	13.19	3.62	6.04	7.69	12.82	5.52	9.20	17.61	29.34	3.67	6.12	11.79	19.64	3.19	5.32	10.22	17.03	2.56	4.27	8.09	13.48	2.24	3.74	6.76	11.27	2.56	4.26	7.45	12.41
North	L32-L33	285	3.05	5.09	2.87	4.79	4.77	7.96	2.55	4.24	6.87	11.45	6.46	10.76	4.57	7.61	4.31	7.18	3.97	6.62	3.70	6.17	3.19	5.31	2.87	4.78	2.77	4.61	2.43	4.05	3.16	5.26	2.62	4.37
North	L33-L34	286	4.61	7.68	1.92	3.21	7.13	11.89	1.62	2.69	10.37	17.28	4.36	7.26	6.89	11.49	2.88	4.81	6.00	9.99	2.48	4.14	4.80	8.00	1.91	3.18	4.16	6.93	1.62	2.70	4.74	7.90	1.73	2.88
North	L34-L35	287	7.66	12.76	2.42	4.04	11.62	19.36	1.95	3.25	17.22	28.71	5.50	9.17	11.45	19.08	3.63	6.05	9.96	16.59	3.13	5.22	7.97	13.28	2.41	4.02	6.89	11.48	2.01	3.34	7.86	13.10	2.17	3.62
North	L35-L36	288	8.54	14.23	2.72	4.54	11.61	19.35	2.30	3.84	19.10	31.83	6.20	10.33	12.76	21.27	4.10	6.84	10.98	18.30	3.53	5.88	8.56	14.26	2.72	4.53	7.51	12.51	2.24	3.74	8.31	13.85	2.43	4.05
North	L36-L37	289	4.88	8.14	2.04	3.41	6.66	11.09	1.80	3.01	10.93	18.21	4.68	7.79	7.30	12.16	3.09	5.15	6.28	10.47	2.66	4.43	4.89	8.15	2.03	3.38	4.29	7.15	1.68	2.79	4.76	7.93	1.81	3.01
North	L37-L38	290	3.53	5.89	3.11	5.18	4.08	6.81	2.81	4.68	7.91	13.18	7.08	11.81	5.28	8.80	4.68	7.80	4.54	7.57	4.03	6.72	3.54	5.90	3.11	5.18	2.90	4.84	2.57	4.28	3.21	5.34	2.82	4.70
North	L38-L39	291	2.75	4.59	5.56	9.27	1.88	3.13	4.06	6.77	6.23	10.39	12.89	21.48	4.15	6.91	8.48	14.13	3.56	5.94	7.30	12.16	2.72	4.54	5.35	8.91	1.90	3.17	3.99	6.64	2.09	3.49	4.36	7.27
North	L39-L40	292	1.93	3.22	7.07	11.79	1.03	1.72	4.92	8.21	4.47	7.45	16.62	27.71	2.95	4.92	10.90	18.17	2.53	4.21	9.34	15.56	1.87	3.11	6.77	11.29	1.25	2.09	4.94	8.24	1.41	2.35	5.57	9.29
North	L40-L41	293	2.04	3.41	51.27	85.44	1.92	3.21	74.03	123.38	4.59	7.65	118.02	196.70	3.06	5.10	78.03	130.04	2.64	4.39	67.16	111.94	2.04	3.40	50.33	83.89	1.72	2.87	33.93	56.55	1.91	3.19	47.96	79.93
North	L41-L42	294	4.21	7.02	81.45	135.75	4.38	7.30	137.23	228.71	9.48	15.80	190.04	316.73	6.32	10.53	124.99	208.31	5.51	9.19	107.40	179.00	4.29	7.16	80.12	133.53	3.56	5.93	53.11	88.51	4.12	6.86	75.43	125.72
North	L42-L43	295	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L43-L44	296	73.33	122.21	3.50	5.84	133.69	222.81	3.78	6.29	152.01	253.36	7.68	12.80	103.53	172.55	5.17	8.61	90.68	151.13	4.51	7.52	84.58	140.97	3.72	6.21	63.42	105.70	3.17	5.29	82.87	138.12	3.64	6.07
North	L44-L45	297	51.39	85.65	1.68	2.80	109.56	182.61	1.87	3.12	111.35	185.59	3.67	6.12	74.82	124.70	2.47	4.11	64.98	108.29	2.13	3.55	55.52	92.54	1.78	2.97	43.65	72.75	1.56	2.60	54.04	90.07	1.77	2.95
North	L45-L46	298	49.31	82.18	1.68	2.81	94.69	157.82	1.87	3.12	108.25	180.42	3.73	6.21	72.64	121.07	2.49	4.15	62.55	104.25	2.17	3.61	52.63	87.72	1.80	2.99	39.27	65.45	1.57	2.62	47.77	79.62	1.78	2.97
North	L46-L47	299	63.84	106.40	3.27	5.45	102.87	171.45	3.66	6.11	137.83	229.71	7.37	12.28	92.79	154.66	4.89	8.15	81.99	136.65	4.25	7.09	73.29	122.15	3.52	5.86	52.11	86.84	2.96	4.94	64.21	107.02	3.42	5.70
North	L47-L48	300	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L48-L49	301	4.02	6.69	79.18	131.97	4.09	6.81	118.17	196.94	9.20	15.33	177.73	296.21	6.08	10.13	118.24	197.06	5.26	8.76	101.39	168.99	4.12	6.87	83.18	138.63	3.36	5.61	53.98	89.96	3.87	6.45	68.64	114.41
North	L49-L50	302	2.14	3.56	66.61	111.02	1.82	3.04	64.10	106.84	4.89	8.16	148.68	247.80	3.23	5.39	97.68	162.81	2.78	4.63	84.91	141.51	2.14	3.57	69.15	115.26	1.69	2.82	35.97	59.95	1.87	3.12	44.03	73.39
North	L50-L51	303	2.03	3.38	63.95	106.58	1.78	2.96	63.39	105.65	4.64	7.73	142.73	237.89	3.06	5.11	93.79	156.31	2.63	4.39	81.52	135.87	2.03	3.38	66.39	110.65	1.60	2.67	34.53	57.55	1.77	2.95	42.28	70.46
North	L51-L52	304	2.75	4.59	7.71	12.85	3.76	6.27	6.83	11.38	6.32	10.53	17.67	29.45	4.17	6.95	11.68	19.47	3.58	5.97	10.04	16.73	2.76	4.60	7.67	12.78	2.36	3.93	6.09	10.16	2.63	4.39	6.61	11.02
North	L52-L53	305	3.60	6.00	2.65	4.41	4.79	7.99	2.18	3.63	8.25	13.76	6.11	10.19	5.44	9.07	4.02	6.70	4.68	7.80	3.45	5.75	3.61	6.01	2.60	4.33	3.06	5.11	2.09	3.49	3.43	5.72	2.26	3.77
North	L53-L54	306	5.99	9.98	2.17	3.62	7.89	13.14	1.70	2.83	13.72	22.86	5.03	8.38	9.05	15.08	3.30	5.51	7.78	12.97	2.84	4.73	6.00	9.99	2.12	3.53	5.09	8.49	1.74	2.90	5.70	9.50	1.83	3.05
North	L54-L55	307	8.53	14.22	2.27	3.79	11.30	18.83	1.72	2.87	19.54	32.57	5.25	8.76	12.88	21.47	3.45	5.74	11.08	18.47	2.96	4.93	8.55	14.25	2.22	3.69	7.28	12.13	1.77	2.94	8.15	13.58	1.93	3.22
North	L55-L56	308	12.28	20.46	3.49	5.82	16.56	27.60	2.57	4.28	28.11	46.84	8.06	13.44	18.51	30.86	5.29	8.81	15.93	26.54	4.54	7.57	12.27	20.46	3.42	5.70	10.57	17.62	2.69	4.48	11.77	19.61	2.91	4.84
North	L56-L57	309	9.67	16.12	3.60	6.00	14.17	23.62	2.72	4.54	22.24	37.06	8.33	13.88	14.57	24.28	5.46	9.10	12.55	20.91	4.69	7.81	9.64	16.07	3.52	5.86	8.55	14.25	2.77	4.61	9.42	15.71	2.98	4.96
North	L57-L58	310	5.53	9.22	2.26	3.76	8.12	13.53	1.78	2.97	12.71	21.19	5.21	8.69	8.33	13.89	3.42	5.70	7.18	11.96	2.94	4.90	5.51	9.18	2.21	3.68	4.89	8.14	1.74	2.90	5.38	8.97	1.90	3.17
North	L58-L59	311	3.44	5.74	2.40	4.00	5.09	8.48	1.98	3.31	7.92	13.19	5.57	9.29	5.19	8.65	3.66	6.09	4.47	7.45	3.13	5.22	3.43	5.72	2.32	3.87	3.04	5.06	1.87	3.12	3.35	5.59	1.99	3.31
North	L59-L60	312	2.35	3.91	3.95	6.58	2.75	4.58	3.29	5.48	5.39	8.99	9.13	15.21	3.54	5.89	5.99	9.98	3.05	5.08	5.14	8.57	2.34	3.90	3.87	6.45	1.88	3.13	3.07	5.12	2.09	3.49	3.31	5.52
North	L60-L61	313	1.67	2.78	6.98	11.64	1.28	2.13	4.69	7.82	3.83	6.38	16.29	27.15	2.51	4.18	10.67	17.78	2.16	3.60	9.16	15.27	1.64	2.74	6.63	11.05	1.11	1.86	4.40	7.34	1.25	2.09	4.81	8.01
North	L61-L62	314	1.15	1.91	9.65	16.08	**0.66**	**1.10**	5.93	9.88	2.68	4.46	23.01	38.36	1.75	2.92	15.03	25.04	1.50	2.50	12.82	21.36	1.11	1.84	8.88	14.80	**0.72**	1.20	5.62	9.37	**0.80**	1.33	6.24	10.40
North	L62-L63	315	1.61	2.69	44.64	74.39	1.43	2.39	41.97	69.94	3.71	6.19	103.77	172.95	2.43	4.05	67.67	112.79	2.09	3.49	58.26	97.09	1.60	2.67	44.02	73.37	1.35	2.25	29.84	49.73	1.45	2.42	35.36	58.93
North	L63-L64	316	1.81	3.01	54.28	90.47	1.76	2.93	56.88	94.79	4.14	6.90	126.54	210.90	2.72	4.53	82.32	137.20	2.34	3.90	71.04	118.39	1.82	3.03	53.88	89.81	1.53	2.56	35.85	59.75	1.69	2.82	41.33	68.88
North	L64-L65	317	3.89	6.48	75.99	126.64	4.11	6.84	102.43	170.72	8.91	14.85	176.28	293.79	5.90	9.83	116.23	193.72	5.07	8.44	99.45	165.76	3.99	6.64	74.59	124.32	3.29	5.48	49.09	81.82	3.83	6.38	57.47	95.78
North	L65-L66	318	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L66-L67	319	58.21	97.02	3.37	5.62	116.78	194.63	3.50	5.84	131.58	219.30	7.60	12.67	86.06	143.43	5.03	8.39	74.85	124.75	4.35	7.25	66.14	110.24	3.63	6.04	47.71	79.52	3.05	5.08	64.56	107.61	3.54	5.91
North	L67-L68	320	48.57	80.95	1.68	2.80	110.03	183.38	1.77	2.95	107.08	178.46	3.77	6.28	70.40	117.34	2.47	4.12	61.25	102.08	2.14	3.57	52.49	87.48	1.78	2.97	41.05	68.42	1.57	2.62	51.85	86.42	1.78	2.96
North	L68-L69	321	52.32	87.20	1.74	2.90	85.84	143.07	1.83	3.05	117.00	195.00	3.89	6.49	75.84	126.39	2.55	4.25	65.80	109.67	2.21	3.68	55.06	91.77	1.84	3.06	40.45	67.41	1.62	2.70	49.17	81.95	1.83	3.05
North	L69-L70	322	69.64	116.07	3.56	5.93	143.77	239.62	3.80	6.33	155.46	259.10	7.99	13.32	103.57	172.61	5.31	8.85	89.36	148.93	4.58	7.63	75.09	125.15	3.80	6.33	48.56	80.94	3.18	5.30	61.80	103.00	3.69	6.15
North	L70-L71	323	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L71-L72	324	4.25	7.09	106.58	177.63	4.23	7.04	119.11	198.52	9.68	16.13	242.95	404.92	6.41	10.68	160.84	268.07	5.53	9.22	139.32	232.21	4.39	7.32	110.09	183.49	3.55	5.91	64.23	107.05	4.10	6.83	81.40	135.67
North	L72-L73	325	2.70	4.50	83.77	139.62	2.45	4.08	111.60	185.99	6.17	10.29	189.31	315.51	4.05	6.75	124.78	207.97	3.49	5.82	107.75	179.58	2.73	4.54	87.65	146.08	2.25	3.75	50.55	84.25	2.51	4.19	63.37	105.61

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	L73-L74	326	1.99	3.31	72.26	120.43	1.57	2.62	78.43	130.72	4.56	7.59	164.37	273.95	2.98	4.97	108.07	180.11	2.57	4.28	93.45	155.76	1.98	3.29	75.38	125.63	1.58	2.63	38.09	63.48	1.70	2.83	44.82	74.69
North	L74-L75	327	2.03	3.38	72.73	121.22	1.61	2.68	78.95	131.58	4.66	7.76	165.45	275.74	3.05	5.08	108.79	181.31	2.63	4.38	94.07	156.78	2.02	3.37	75.88	126.46	1.61	2.69	38.34	63.90	1.74	2.90	45.11	75.19
North	L75-L76	328	2.21	3.68	13.33	22.22	2.40	4.00	9.37	15.62	5.07	8.45	30.77	51.28	3.32	5.53	20.25	33.75	2.86	4.76	17.41	29.02	2.19	3.65	13.18	21.96	1.92	3.20	9.45	15.75	2.11	3.51	10.33	17.22
North	L76-L77	329	2.71	4.52	5.28	8.79	3.42	5.69	3.51	5.85	6.24	10.40	12.26	20.44	4.08	6.81	8.04	13.40	3.51	5.86	6.90	11.51	2.69	4.48	5.12	8.54	2.32	3.87	3.75	6.25	2.56	4.27	4.12	6.87
North	L77-L78	330	3.42	5.70	2.83	4.71	4.21	7.01	1.78	2.97	7.87	13.12	6.60	10.99	5.15	8.59	4.32	7.20	4.43	7.39	3.71	6.18	3.37	5.62	2.71	4.52	2.89	4.81	2.03	3.38	3.19	5.31	2.16	3.60
North	L78-L79	331	5.20	8.67	2.81	4.69	6.31	10.52	1.71	2.84	11.99	19.99	6.57	10.95	7.85	13.08	4.30	7.17	6.75	11.25	3.69	6.14	5.12	8.54	2.70	4.49	4.36	7.27	1.97	3.28	4.81	8.02	2.13	3.55
North	L79-L80	332	6.38	10.64	2.69	4.48	7.57	12.61	1.57	2.62	14.76	24.59	6.28	10.46	9.65	16.08	4.11	6.85	8.30	13.83	3.52	5.87	6.25	10.41	2.57	4.28	5.33	8.89	1.85	3.08	5.84	9.73	2.01	3.36
North	L80-L81	333	7.18	11.97	2.79	4.65	8.40	14.00	1.60	2.67	16.65	27.75	6.51	10.85	10.91	18.19	4.26	7.10	9.36	15.61	3.65	6.08	6.99	11.65	2.67	4.45	6.01	10.01	1.91	3.18	6.50	10.84	2.06	3.43
North	L81-L82	334	6.96	11.61	2.90	4.83	7.99	13.32	1.63	2.72	16.23	27.05	6.77	11.29	10.63	17.71	4.43	7.38	9.11	15.18	3.80	6.33	6.71	11.18	2.78	4.64	5.75	9.58	1.96	3.27	6.12	10.21	2.13	3.55
North	L82-L83	335	4.86	8.09	3.33	5.55	5.46	9.10	1.92	3.20	11.32	18.86	7.77	12.95	7.41	12.35	5.09	8.48	6.35	10.58	4.36	7.27	4.68	7.79	3.19	5.32	4.01	6.69	2.24	3.73	4.27	7.12	2.43	4.06
North	L83-L84	336	3.29	5.48	3.24	5.41	3.67	6.12	1.91	3.18	7.67	12.78	7.56	12.60	5.02	8.37	4.95	8.25	4.30	7.17	4.25	7.08	3.17	5.28	3.11	5.18	2.72	4.53	2.19	3.66	2.90	4.83	2.38	3.97
North	L84-L85	337	2.54	4.24	4.34	7.23	2.82	4.71	2.58	4.31	5.92	9.87	10.15	16.91	3.88	6.46	6.64	11.07	3.32	5.54	5.69	9.49	2.45	4.08	4.12	6.87	2.10	3.49	2.88	4.81	2.24	3.73	3.15	5.25
North	L85-L86	338	2.17	3.62	6.41	10.68	2.13	3.56	3.96	6.60	5.06	8.44	14.98	24.97	3.32	5.53	9.80	16.34	2.84	4.74	8.40	14.00	2.09	3.49	6.10	10.16	1.73	2.88	4.30	7.17	1.85	3.08	4.69	7.82
North	L86-L87	339	2.07	3.46	9.84	16.41	1.65	2.76	5.83	9.71	4.83	8.05	22.95	38.24	3.16	5.27	15.04	25.07	2.71	4.52	12.89	21.48	2.00	3.33	9.41	15.69	1.45	2.42	6.33	10.54	1.58	2.63	7.02	11.71
North	L87-L88	340	2.11	3.51	14.48	24.13	1.37	2.28	7.44	12.41	4.91	8.19	33.97	56.62	3.22	5.36	22.27	37.11	2.76	4.59	19.03	31.72	2.03	3.38	13.67	22.78	1.33	2.21	8.05	13.42	1.47	2.45	9.13	15.21
North	L88-L89	341	2.60	4.34	19.25	32.08	1.36	2.26	9.08	15.13	6.07	10.12	45.49	75.82	3.97	6.62	29.76	49.60	3.41	5.68	25.42	42.37	2.51	4.18	17.98	29.97	1.50	2.50	9.85	16.42	1.66	2.77	11.29	18.82
North	L89-L90	342	3.01	5.02	21.81	36.34	1.32	2.20	10.31	17.19	7.05	11.76	51.66	86.10	4.61	7.69	33.76	56.26	3.95	6.58	28.83	48.05	2.85	4.76	20.29	33.81	1.62	2.70	11.05	18.41	1.82	3.03	12.94	21.56
North	L90-L91	343	3.58	5.96	102.91	171.51	2.20	3.67	156.58	260.96	8.34	13.90	238.14	396.90	5.46	9.09	156.27	260.45	4.68	7.80	134.35	223.92	3.45	5.75	102.39	170.65	2.40	4.00	68.96	114.93	2.71	4.51	91.60	152.67
North	L91-L92	344	2.97	4.95	117.83	196.38	1.93	3.21	170.62	284.37	6.91	11.52	269.90	449.83	4.52	7.54	178.08	296.80	3.88	6.47	152.99	254.98	2.87	4.78	116.73	194.56	2.07	3.44	68.43	114.04	2.31	3.86	88.96	148.27
North	L92-L93	345	1.84	3.07	102.27	170.45	1.26	2.10	161.23	268.72	4.28	7.14	237.47	395.78	2.80	4.66	155.06	258.44	2.41	4.01	133.28	222.14	1.78	2.97	99.68	166.14	1.34	2.23	57.28	95.47	1.50	2.49	73.37	122.29
North	L93-L94	346	1.78	2.97	91.95	153.25	1.30	2.17	169.30	282.16	4.14	6.90	215.49	359.15	2.71	4.52	139.97	233.29	2.33	3.88	120.51	200.86	1.74	2.90	91.22	152.04	1.34	2.24	52.59	87.65	1.51	2.52	69.06	115.10
North	L94-L95	347	1.56	2.60	80.54	134.23	1.22	2.03	171.15	285.25	3.61	6.01	188.94	314.91	2.37	3.95	123.29	205.49	2.04	3.39	105.69	176.14	1.54	2.57	80.43	134.06	1.20	2.00	48.16	80.27	1.36	2.26	61.21	102.02
North	L95-L96	348	2.91	4.86	97.24	162.07	2.21	3.69	263.45	439.08	6.73	11.22	227.73	379.55	4.45	7.42	150.49	250.82	3.81	6.35	127.54	212.56	2.90	4.83	97.68	162.81	2.28	3.81	59.39	98.99	2.54	4.23	72.52	120.87
North	L96-L97	349	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L97-L98	350	63.19	105.31	2.22	3.70	99.93	166.54	2.11	3.52	146.94	244.89	5.09	8.48	96.84	161.40	3.37	5.62	82.50	137.49	2.89	4.82	65.27	108.79	2.25	3.75	42.57	70.95	1.83	3.05	51.50	85.83	2.03	3.38
North	L98-L99	351	62.52	104.20	1.90	3.17	111.81	186.35	1.84	3.06	145.04	241.73	4.35	7.25	94.13	156.88	2.86	4.76	81.44	135.73	2.46	4.10	63.83	106.38	1.92	3.21	43.88	73.14	1.62	2.69	53.89	89.82	1.79	2.99
North	L99-L100	352	67.23	112.06	1.92	3.21	105.82	176.37	1.80	3.01	154.38	257.30	4.39	7.32	100.88	168.13	2.88	4.79	86.88	144.79	2.48	4.13	67.76	112.93	1.95	3.25	47.68	79.47	1.66	2.76	56.91	94.85	1.82	3.03
North	L100-L101	353	66.91	111.51	1.90	3.17	124.38	207.30	1.77	2.95	152.96	254.93	4.34	7.23	99.53	165.88	2.84	4.74	86.04	143.41	2.45	4.08	67.73	112.88	1.93	3.21	47.65	79.42	1.64	2.73	57.52	95.87	1.80	3.00
North	L101-L102	354	61.87	103.11	1.86	3.09	123.51	205.85	1.74	2.90	140.18	233.63	4.24	7.07	91.84	153.07	2.78	4.64	79.10	131.83	2.40	4.00	62.60	104.34	1.87	3.12	42.95	71.58	1.57	2.62	52.99	88.32	1.75	2.92
North	L102-L103	355	60.47	100.78	2.14	3.56	132.48	220.81	2.03	3.38	137.63	229.38	4.89	8.16	90.94	151.57	3.23	5.39	78.98	131.63	2.79	4.66	62.54	104.24	2.16	3.60	40.83	68.05	1.76	2.94	49.14	81.90	1.95	3.25
North	L103-L104	356	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L104-L105	357	3.18	5.31	111.24	185.39	2.79	4.66	210.52	350.87	7.36	12.27	258.89	431.49	4.85	8.08	170.33	283.88	4.18	6.97	146.49	244.15	3.17	5.28	109.41	182.34	2.48	4.13	62.17	103.62	2.76	4.59	77.45	129.08
North	L105-L106	358	3.35	5.58	110.02	183.37	2.71	4.51	200.31	333.85	7.74	12.90	254.99	424.98	5.09	8.48	167.94	279.89	4.37	7.28	143.60	239.33	3.30	5.49	107.86	179.76	2.55	4.25	60.56	100.94	2.88	4.80	77.14	128.56
North	L106-L107	359	3.53	5.88	114.79	191.32	2.65	4.42	172.75	287.91	8.19	13.65	266.39	443.98	5.36	8.93	174.01	290.01	4.60	7.67	149.23	248.72	3.43	5.72	112.02	186.69	2.64	4.40	62.43	104.06	2.96	4.93	79.87	133.12
North	L107-L108	360	3.63	6.04	113.92	189.87	2.55	4.25	145.39	242.31	8.42	14.04	263.56	439.26	5.51	9.18	171.97	286.62	4.73	7.88	147.84	246.39	3.50	5.84	112.18	186.97	2.62	4.36	60.64	101.07	2.92	4.86	76.11	126.85
North	L108-L109	361	3.73	6.22	112.64	187.74	2.48	4.14	120.35	200.58	8.66	14.44	259.45	432.42	5.67	9.45	169.85	283.08	4.87	8.11	146.06	243.44	3.60	6.00	110.50	184.17	2.58	4.30	59.01	98.35	2.87	4.79	74.11	123.52
North	L109-L110	362	4.08	6.80	87.13	145.22	2.56	4.27	112.81	188.01	9.49	15.82	201.01	335.02	6.21	10.35	131.43	219.05	5.33	8.89	113.08	188.46	3.94	6.56	85.51	142.52	2.72	4.54	49.55	82.59	3.05	5.08	61.93	103.22
North	L110-L111	363	5.27	8.79	43.21	72.02	2.24	3.74	21.49	35.82	12.41	20.68	103.30	172.17	8.11	13.52	67.41	112.36	6.94	11.57	57.45	95.74	4.97	8.28	39.54	65.90	2.84	4.73	18.40	30.67	3.17	5.28	21.78	36.29
North	L111-L112	364	3.84	6.40	31.32	52.21	1.90	3.16	15.86	26.44	8.98	14.96	74.88	124.80	5.88	9.79	48.87	81.45	5.04	8.39	41.66	69.43	3.66	6.10	28.65	47.74	2.18	3.63	14.49	24.16	2.41	4.02	17.00	28.34
North	L112-L113	365	3.59	5.98	22.81	38.02	2.20	3.66	12.40	20.67	8.36	13.93	52.85	88.09	5.47	9.11	34.58	57.64	4.69	7.81	29.72	49.54	3.45	5.75	22.18	36.97	2.22	3.70	12.05	20.08	2.45	4.09	13.71	22.85
North	L113-L114	366	3.28	5.47	13.74	22.89	2.51	4.18	8.79	14.64	7.65	12.75	31.88	53.13	5.01	8.34	20.87	34.79	4.29	7.15	17.92	29.86	3.16	5.27	13.29	22.14	2.27	3.79	9.13	15.22	2.48	4.14	10.15	16.92
North	L114-L115	367	3.58	5.96	8.75	14.58	3.42	5.70	5.85	9.74	8.33	13.89	20.38	33.97	5.45	9.08	13.34	22.23	4.67	7.79	11.43	19.05	3.44	5.74	8.43	14.05	2.83	4.72	6.04	10.07	3.02	5.04	6.75	11.25
North	L115-L116	368	3.65	6.08	5.07	8.45	4.08	6.80	3.13	5.22	8.51	14.18	11.75	19.59	5.56	9.27	7.70	12.84	4.77	7.95	6.62	11.03	3.51	5.85	4.85	8.09	2.99	4.98	3.41	5.68	3.19	5.31	3.74	6.23
North	L116-L117	369	4.28	7.13	3.25	5.41	5.31	8.84	2.19	3.65	9.97	16.62	7.54	12.57	6.52	10.87	4.94	8.24	5.59	9.32	4.24	7.07	4.12	6.86	3.12	5.21	3.50	5.84	2.23	3.71	3.74	6.23	2.44	4.06
North	L117-L118	370	5.97	9.95	3.02	5.04	7.42	12.36	1.98	3.29	13.91	23.18	7.03	11.71	9.10	15.16	4.60	7.67	7.80	13.00	3.95	6.58	5.74	9.57	2.91	4.85	4.88	8.14	2.07	3.44	5.21	8.68	2.26	3.77
North	L118-L119	371	9.47	15.79	2.88	4.80	11.89	19.81	1.84	3.06	22.08	36.80	6.70	11.16	14.44	24.07	4.39	7.32	12.38	20.64	3.76	6.27	9.11	15.19	2.77	4.62	7.74	12.91	1.98	3.30	8.26	13.77	2.16	3.61
North	L119-L120	372	11.34	18.90	2.98	4.96	14.35	23.92	1.93	3.22	26.43	44.05	6.94	11.56	17.28	28.81	4.54	7.57	14.82	24.70	3.90	6.49	10.91	18.18	2.86	4.77	9.27	15.44	2.06	3.44	9.88	16.47	2.24	3.73
North	L120-L121	373	13.33	22.21	3.21	5.35	17.10	28.51	2.12	3.53	31.07	51.78	7.51	12.51	20.32	33.87	4.92	8.19	17.42	29.04	4.21	7.02	12.82	21.37	3.07	5.12	10.89	18.15	2.23	3.71	11.61	19.36	2.42	4.03
North	L121-L122	374	15.11	25.18	3.39	5.66	19.75	32.92	2.30	3.83	35.22	58.70	7.93	13.22	23.04	38.40	5.20	8.66	19.75	32.92	4.45	7.42	14.53	24.21	3.24	5.40	12.34	20.56	2.37	3.95	13.16	21.93	2.60	4.34
North	L122-L123	375	16.16	26.94	3.30	5.51	21.68	36.13	2.31	3.85	37.71	62.84	7.74	12.89	24.66	41.10	5.07	8.45	21.14	35.23	4.34	7.24	15.53	25.89	3.16	5.26	13.20	21.99	2.37	3.95	14.07	23.45	2.56	4.27
North	L123-L124	376	17.18	28.63	3.29	5.49	23.83	39.71	2.41	4.01	40.09	66.82	7.71	12.84	26.22	43.70	5.05	8.42	22.47	37.46	4.33	7.22	16.50	27.50	3.16	5.27	14.02	23.37	2.35	3.92	14.95	24.91	2.56	4.27
North	L124-L125	377	28.12	46.87	7.82	13.03	40.20	66.99	6.31	10.51	65.66	109.43	18.24	30.39	42.94	71.56	11.98	19.96	36.80	61.33	10.29	17.16	26.98	44.97	7.62	12.70	22.87	38.12	5.73	9.55	24.44	40.74	6.35	10.58
North	L125-L126	378	44.93	74.89	73.27	122.12	22.87	38.11	48.24	80.39	107.08	178.47	174.78	291.29	69.93	116.56	114.14	190.23	59.67	99.44	97.33	162.21	41.61	69.36	67.63	112.72	25.38	42.30	38.44	64.06	28.08	46.81	43.63	72.71
North	U0-U1	379	3.08	5.14	86.23	143.71	3.22	5.37	116.78	194.63	6.86	11.43	178.08	296.81	4.59	7.65	122.44	204.06	4.01	6.69	107.71	179.52	3.19	5.32	102.15	170.25	2.71	4.52	93.22	155.36	3.09	5.16	117.00	195.00
North	U1-U2	380	1.48	2.46	69.83	116.39	1.51	2.52	90.10	150.16	3.27	5.45	146.38	243.97	2.20	3.66	98.85	164.76	1.89	3.14	87.96	146.59	1.52	2.54	82.08	136.80	1.33	2.22	73.60	122.66	1.50	2.50	89.53	149.21
North	U2-U3	381	1.76	2.94	79.79	132.98	1.78	2.97	106.07	176.78	3.91	6.52	169.34	282.23	2.59	4.32	114.28	190.46	2.25	3.75	101.04	168.40	1.84	3.06	93.80	156.34	1.63	2.71	80.66	134.43	1.80	2.99	95.84	159.74
North	U3-U4	382	1.33	2.21	74.97	124.96	1.35	2.24	104.41	174.01	2.96	4.93	159.39	265.65	1.97	3.29	108.14	180.23	1.70	2.83	95.20	158.66	1.39	2.32	87.89	146.48	1.23	2.05	74.36	123.93	1.38	2.30	86.05	143.42
North	U4-U5	383	1.39	2.32	76.64	127.74	1.43	2.38	121.07	201.78	3.12	5.20	163.52	272.54	2.08	3.46	110.69	184.49	1.81	3.01	98.16	163.60	1.46	2.43	89.89	149.81	1.26	2.10	65.69	109.48	1.46	2.43	78.64	131.06
North	U5-U6	384	1.39	2.32	76.36	127.26	1.43	2.38	121.05	201.75	3.12	5.20	162.93	271.56	2.08	3.46	110.30	183.83	1.81	3.01	97.83	163.05	1.46	2.43	89.58	149.30	1.26	2.10	65.58	109.31	1.46	2.43	78.49	130.81
North	U6-U7	385	1.92	3.20	84.37	140.61	2.01	3.35	148.89	248.15	4.35	7.25	182.50	304.16	2.89	4.81	122.97	204.95	2.50	4.17	108.65	181.09	2.01	3.35	99.86	166.44	1.68	2.80	66.39	110.65	1.94	3.24	83.53	139.22
North	U7-U8	386	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U8-U9	387	77.22	128.70	2.57	4.28	133.06	221.77	2.44	4.06	174.46	290.77	5.87	9.79	115.81	193.01	3.89	6.48	100.59	167.65	3.36	5.60	82.25	137.08	2.62	4.37	54.64	91.06	2.17	3.62	60.22	100.36	2.37	3.95
North	U9-U10	388	80.17	133.62	2.43	4.04	135.82	226.37	2.10	3.49	181.24	302.06	5.55	9.26	120.27	200.45	3.67	6.12	104.47	174.11	3.18	5.30	83.20	138.66	2.46	4.10	49.98	83.29	1.98	3.30	59.28	98.79	2.17	3.62
North	U10-U11	389	14.34	23.90	2.28	3.79	12.86	21.44	2.25	3.75	32.27	53.79	5.21	8.69	21.52	35.86	3.45	5.75	18.74	31.23	2.98	4.97	14.45	24.08	2.26	3.77	11.99	19.99	1.98	3.30	13.17	21.95	2.24	3.73
North	U11-U12	390	6.01	10.01	2.29	3.82	5.07	8.45	2.89	4.82	13.53	22.55	5.25	8.74	9.03	15.04	3.47	5.78	7.75	12.91	3.00	5.00	5.97	9.95	2.28	3.80	5.04	8.41	2.00	3.34	5.44	9.07	2.55	4.25

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																											
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	U12-U13	391	3.53	5.88	2.62	4.36	2.86	4.76	4.35	7.25	7.99	13.31	5.99	9.98	5.29	8.82	3.96	6.60	4.55	7.59	3.42	5.70	3.50	5.83	2.60	4.34	2.98	4.96	2.29	3.82	3.17	5.28	3.24	5.41
North	U13-U14	392	2.48	4.14	3.03	5.05	1.93	3.22	6.52	10.86	5.63	9.39	6.93	11.55	3.71	6.19	4.58	7.64	3.21	5.35	3.96	6.60	2.47	4.11	3.02	5.03	2.06	3.43	2.66	4.44	2.22	3.71	3.57	5.95
North	U14-U15	393	2.12	3.54	3.54	5.91	1.59	2.65	5.96	9.94	4.84	8.06	8.03	13.39	3.19	5.31	5.32	8.87	2.75	4.58	4.60	7.67	2.13	3.54	3.55	5.92	1.74	2.89	3.12	5.20	1.92	3.20	3.79	6.32
North	U15-U16	394	2.12	3.54	3.54	5.90	1.59	2.65	5.96	9.94	4.84	8.06	8.03	13.39	3.19	5.31	5.32	8.87	2.75	4.58	4.60	7.67	2.13	3.54	3.55	5.92	1.74	2.89	3.12	5.20	1.92	3.20	3.79	6.32
North	U16-U17	395	2.23	3.71	3.24	5.41	1.76	2.94	4.82	8.03	5.07	8.45	7.29	12.15	3.36	5.60	4.84	8.07	2.89	4.81	4.17	6.96	2.21	3.69	3.28	5.46	1.83	3.05	2.94	4.90	1.98	3.30	3.30	5.50
North	U17-U18	396	2.87	4.78	2.63	4.38	2.44	4.07	3.89	6.49	6.53	10.88	5.91	9.85	4.33	7.21	3.92	6.54	3.72	6.20	3.38	5.64	2.86	4.77	2.65	4.42	2.39	3.99	2.37	3.95	2.57	4.28	2.67	4.45
North	U18-U19	397	4.53	7.56	2.10	3.50	4.36	7.27	2.95	4.92	10.25	17.08	4.72	7.86	6.81	11.34	3.13	5.22	5.88	9.80	2.70	4.50	4.60	7.67	2.12	3.53	3.84	6.40	1.88	3.13	4.20	7.00	2.13	3.55
North	U19-U20	398	10.62	17.70	2.20	3.67	11.44	19.06	2.44	4.06	23.82	39.69	4.95	8.24	15.89	26.48	3.28	5.47	13.83	23.05	2.83	4.72	11.07	18.44	2.22	3.70	9.36	15.59	1.96	3.26	10.31	17.19	2.23	3.72
North	U20-U21	399	31.36	52.26	2.17	3.62	27.52	45.86	2.07	3.45	68.04	113.40	4.84	8.06	45.65	76.08	3.23	5.39	40.17	66.94	2.79	4.64	31.41	52.34	2.23	3.71	23.66	39.44	1.81	3.02	26.64	44.40	2.17	3.61
North	U21-U22	400	18.69	31.15	3.52	5.86	20.42	34.04	3.70	6.17	40.44	67.40	7.84	13.06	27.27	45.46	5.24	8.73	24.07	40.11	4.55	7.58	21.71	36.19	3.70	6.16	18.31	30.52	2.94	4.90	21.98	36.63	3.67	6.11
North	U22-U23	401	10.74	17.90	12.78	21.30	14.99	24.99	15.16	25.26	24.02	40.03	28.59	47.65	15.90	26.50	18.93	31.55	13.76	22.94	16.38	27.31	10.86	18.10	12.90	21.50	8.55	14.26	10.17	16.96	11.58	19.30	13.88	23.14
North	U23-U24	402	1.90	3.17	18.54	30.91	2.44	4.06	23.04	38.40	4.07	6.78	41.50	69.17	2.76	4.60	27.46	45.77	2.39	3.99	23.80	39.66	2.05	3.41	19.32	32.19	1.79	2.99	14.72	24.53	2.12	3.53	20.29	33.82
North	U24-U25	403	1.30	2.16	28.62	47.69	1.55	2.59	37.49	62.49	2.79	4.66	63.88	106.46	1.87	3.11	42.42	70.70	1.63	2.71	36.68	61.14	1.43	2.38	30.23	50.38	1.30	2.17	24.21	40.35	1.45	2.41	30.70	51.17
North	U25-U26	404	1.30	2.16	28.61	47.68	1.55	2.59	37.50	62.49	2.79	4.66	63.85	106.42	1.87	3.11	42.41	70.68	1.63	2.71	36.67	61.12	1.43	2.38	30.21	50.36	1.30	2.17	24.21	40.35	1.45	2.41	30.68	51.13
North	U26-U27	405	1.49	2.48	40.18	66.96	1.80	3.01	64.04	106.73	3.22	5.37	87.56	145.93	2.17	3.61	58.77	97.95	1.88	3.13	51.00	84.99	1.65	2.75	43.07	71.78	1.48	2.47	36.18	60.31	1.67	2.78	46.41	77.35
North	U27-U28	406	2.99	4.98	64.40	107.33	3.75	6.25	122.12	203.53	6.62	11.03	142.52	237.53	4.42	7.36	95.18	158.64	3.87	6.44	83.12	138.54	3.40	5.66	71.70	119.51	2.89	4.82	53.80	89.66	3.41	5.69	73.29	122.15
North	U28-U29	407	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U29-U30	408	76.26	127.11	5.35	8.92	154.03	256.72	6.08	10.14	172.77	287.95	12.06	20.10	114.53	190.89	8.01	13.35	99.19	165.32	6.97	11.61	80.27	133.78	5.73	9.56	56.50	94.17	4.80	8.01	74.65	124.41	5.68	9.46
North	U30-U31	409	7.71	12.84	3.50	5.84	6.44	10.74	5.56	9.27	17.41	29.02	7.89	13.15	11.59	19.32	5.24	8.74	10.10	16.83	4.56	7.60	7.71	12.85	3.66	6.09	6.27	10.44	3.20	5.34	6.85	11.41	3.66	6.09
North	U31-U32	410	2.47	4.12	3.64	6.07	2.05	3.41	5.82	9.70	5.57	9.28	8.19	13.65	3.71	6.19	5.44	9.07	3.19	5.32	4.73	7.89	2.45	4.08	3.80	6.33	2.07	3.44	3.33	5.55	2.23	3.71	3.80	6.33
North	U32-U33	411	1.54	2.56	5.26	8.77	1.24	2.06	8.43	14.05	3.49	5.81	11.83	19.72	2.31	3.85	7.87	13.11	1.99	3.31	6.84	11.40	1.52	2.54	5.48	9.14	1.29	2.16	4.80	8.00	1.38	2.30	5.49	9.15
North	U33-U34	412	1.46	2.44	7.62	12.70	1.14	1.89	12.19	20.32	3.32	5.53	17.12	28.53	2.19	3.65	11.39	18.98	1.89	3.15	9.89	16.49	1.45	2.42	7.92	13.20	1.21	2.02	6.92	11.53	1.31	2.18	7.97	13.28
North	U34-U35	413	1.48	2.47	9.48	15.80	1.11	1.86	14.48	24.14	3.38	5.63	21.21	35.34	2.23	3.71	14.15	23.58	1.92	3.20	12.25	20.42	1.48	2.47	9.78	16.30	1.21	2.02	8.59	14.31	1.34	2.23	9.92	16.54
North	U35-U36	414	1.48	2.47	9.48	15.80	1.11	1.86	14.48	24.14	3.38	5.63	21.20	35.34	2.23	3.71	14.15	23.58	1.92	3.20	12.25	20.42	1.48	2.47	9.78	16.29	1.21	2.02	8.59	14.31	1.34	2.23	9.92	16.54
North	U36-U37	415	1.54	2.56	8.14	13.56	1.22	2.03	11.32	18.86	3.49	5.82	18.29	30.49	2.32	3.86	12.20	20.34	1.99	3.32	10.51	17.51	1.52	2.54	8.15	13.59	1.26	2.10	6.99	11.65	1.36	2.27	7.98	13.30
North	U37-U38	416	1.79	2.98	5.83	9.72	1.53	2.55	8.05	13.42	4.08	6.79	13.14	21.89	2.70	4.50	8.75	14.59	2.32	3.87	7.54	12.57	1.78	2.97	5.84	9.74	1.48	2.47	4.97	8.28	1.60	2.66	5.73	9.55
North	U38-U39	417	3.95	6.59	5.54	9.23	3.74	6.23	7.53	12.55	8.95	14.92	12.52	20.86	5.94	9.90	8.32	13.87	5.13	8.56	7.18	11.96	3.99	6.65	5.55	9.25	3.31	5.52	4.67	7.78	3.62	6.03	5.41	9.02
North	U39-U40	418	10.34	17.23	5.85	9.75	10.76	17.93	6.80	11.33	23.36	38.94	13.28	22.13	15.52	25.86	8.80	14.67	13.48	22.46	7.60	12.66	10.70	17.84	5.87	9.78	8.95	14.92	4.88	8.13	9.86	16.44	5.64	9.40
North	U40-U41	419	28.11	46.84	6.88	11.46	20.43	34.05	5.80	9.66	62.27	103.78	15.73	26.21	41.54	69.23	10.41	17.34	36.29	60.49	8.96	14.94	28.35	47.25	6.97	11.61	20.72	34.53	5.47	9.12	22.91	38.19	6.43	10.71
North	U41-U42	420	18.59	30.98	23.98	39.97	16.51	27.52	22.82	38.03	41.29	68.82	52.68	87.81	27.38	45.64	34.86	58.09	23.68	39.47	30.33	50.56	19.50	32.50	25.11	41.84	14.17	23.61	19.17	31.94	19.18	31.96	27.09	45.15
North	U42-U43	421	2.90	4.84	29.33	48.89	3.29	5.49	33.82	56.37	6.35	10.59	65.00	108.34	4.28	7.13	43.32	72.21	3.72	6.19	37.60	62.66	3.05	5.09	32.43	54.06	2.53	4.21	22.48	37.46	3.02	5.03	37.07	61.79
North	U43-U44	422	1.40	2.33	39.07	65.11	1.53	2.55	48.55	80.91	3.06	5.11	86.15	143.59	2.05	3.42	57.39	95.66	1.77	2.95	49.88	83.13	1.48	2.46	41.66	69.43	1.28	2.14	29.91	49.85	1.48	2.47	46.90	78.16
North	U44-U45	423	1.18	1.97	45.81	76.34	1.32	2.19	65.12	108.53	2.62	4.36	100.70	167.83	1.73	2.88	67.13	111.88	1.50	2.50	58.35	97.25	1.29	2.16	49.52	82.54	1.16	1.93	36.73	61.21	1.28	2.14	50.86	84.76
North	U45-U46	424	1.18	1.97	45.81	76.35	1.32	2.19	65.12	108.54	2.62	4.36	100.69	167.81	1.73	2.88	67.11	111.85	1.50	2.50	58.34	97.24	1.29	2.16	49.53	82.56	1.16	1.93	36.72	61.21	1.28	2.14	50.84	84.74
North	U46-U47	425	1.36	2.27	48.70	81.17	1.57	2.62	89.52	149.20	3.01	5.02	106.12	176.87	2.01	3.35	71.03	118.39	1.75	2.92	61.63	102.72	1.45	2.42	53.02	88.37	1.27	2.11	39.24	65.40	1.45	2.42	56.95	94.91
North	U47-U48	426	2.90	4.83	66.54	110.90	3.41	5.69	142.20	236.99	6.54	10.89	144.26	240.44	4.34	7.23	96.97	161.62	3.77	6.28	85.50	142.51	3.11	5.19	76.93	128.21	2.63	4.38	55.60	92.66	3.04	5.07	77.36	128.93
North	U48-U49	427	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U49-U50	428	77.10	128.50	5.98	9.97	184.47	307.45	6.28	10.47	171.23	285.38	13.70	22.83	113.72	189.54	9.06	15.09	98.18	163.64	7.83	13.05	82.72	137.87	6.14	10.24	57.01	95.02	5.08	8.46	76.00	126.67	5.82	9.71
North	U50-U51	429	10.37	17.29	5.77	9.61	7.83	13.06	8.02	13.37	24.05	40.08	13.22	22.04	15.84	26.40	8.73	14.54	13.62	22.71	7.50	12.50	10.09	16.82	5.77	9.62	7.77	12.95	5.01	8.35	8.41	14.02	5.58	9.30
North	U51-U52	430	3.20	5.33	5.57	9.29	2.49	4.15	7.86	13.10	7.41	12.36	12.78	21.30	4.88	8.13	8.43	14.05	4.19	6.98	7.25	12.08	3.12	5.20	5.58	9.30	2.50	4.17	4.84	8.06	2.69	4.49	5.39	8.98
North	U52-U53	431	1.60	2.67	6.79	11.32	1.21	2.02	9.45	15.74	3.72	6.20	15.55	25.92	2.44	4.07	10.26	17.10	2.10	3.49	8.82	14.71	1.56	2.60	6.81	11.35	1.28	2.14	5.89	9.82	1.35	2.24	6.58	10.96
North	U53-U54	432	1.58	2.63	9.57	15.95	1.16	1.94	13.34	22.23	3.65	6.09	21.90	36.49	2.40	3.99	14.44	24.07	2.06	3.43	12.42	20.70	1.54	2.56	9.59	15.99	1.23	2.04	8.30	13.83	1.34	2.23	9.30	15.50
North	U54-U55	433	1.59	2.64	11.40	18.99	1.14	1.89	16.19	26.98	3.66	6.11	26.07	43.44	2.40	4.00	17.18	28.63	2.06	3.44	14.78	24.63	1.55	2.59	11.41	19.01	1.22	2.04	9.92	16.54	1.32	2.20	11.14	18.56
North	U55-U56	434	1.88	3.13	11.83	19.71	1.31	2.19	17.21	28.68	4.34	7.24	27.19	45.31	2.85	4.75	17.82	29.70	2.44	4.07	15.35	25.58	1.85	3.08	11.78	19.63	1.47	2.45	10.28	17.13	1.56	2.61	11.49	19.15
North	U56-U57	435	1.88	3.13	11.83	19.71	1.31	2.19	17.21	28.68	4.34	7.24	27.19	45.31	2.85	4.75	17.82	29.70	2.44	4.07	15.35	25.58	1.85	3.08	11.78	19.63	1.47	2.45	10.28	17.13	1.56	2.61	11.49	19.15
North	U57-U58	436	1.65	2.75	8.95	14.92	1.19	1.99	13.04	21.74	3.82	6.36	20.59	34.31	2.50	4.17	13.49	22.49	2.15	3.58	11.62	19.37	1.61	2.68	8.91	14.86	1.27	2.11	7.72	12.87	1.36	2.27	8.69	14.49
North	U58-U59	437	1.77	2.94	6.68	11.14	1.34	2.23	9.78	16.30	4.09	6.81	15.37	25.62	2.68	4.47	10.07	16.79	2.30	3.84	8.68	14.46	1.72	2.87	6.65	11.09	1.36	2.26	5.71	9.51	1.48	2.47	6.48	10.81
North	U59-U60	438	1.81	3.02	4.10	6.83	1.46	2.43	6.05	10.09	4.20	6.99	9.43	15.72	2.76	4.59	6.18	10.30	2.37	3.94	5.32	8.87	1.77	2.95	4.08	6.80	1.43	2.38	3.47	5.78	1.52	2.53	3.97	6.62
North	U60-U61	439	3.11	5.18	2.61	4.35	2.76	4.60	3.88	6.46	7.15	11.92	6.01	10.01	4.71	7.84	3.94	6.56	4.04	6.74	3.39	5.65	3.06	5.11	2.60	4.33	2.47	4.12	2.18	3.63	2.64	4.41	2.53	4.21
North	U61-U62	440	8.09	13.48	1.94	3.23	7.89	13.14	2.40	3.99	18.42	30.70	4.46	7.43	12.16	20.26	2.92	4.87	10.51	17.51	2.51	4.19	8.14	13.57	1.93	3.21	6.59	10.98	1.59	2.65	7.13	11.88	1.87	3.12
North	U62-U63	441	43.71	72.85	5.19	8.65	26.18	43.64	4.29	7.14	99.98	166.63	11.93	19.88	65.63	109.39	7.85	13.09	56.71	94.52	6.75	11.25	44.91	74.85	5.26	8.76	29.57	49.29	4.15	6.91	32.46	54.10	4.72	7.87
North	U63-U64	442	28.61	47.68	5.69	9.48	18.19	30.31	4.69	7.81	63.83	106.38	13.05	21.76	42.51	70.85	8.60	14.33	36.87	61.45	7.39	12.32	31.32	52.20	5.78	9.63	20.80	34.67	4.37	7.29	22.83	38.06	5.04	8.40
North	U64-U65	443	16.42	27.37	18.60	31.00	12.97	21.61	12.80	21.33	37.32	62.20	42.14	70.23	24.51	40.85	27.68	46.14	21.10	35.16	23.85	39.74	16.46	27.43	18.87	31.45	11.35	18.91	13.27	22.12	14.09	23.48	15.81	26.35
North	U65-U66	444	3.02	5.04	24.65	41.08	3.33	5.55	19.08	31.80	6.82	11.36	55.77	92.95	4.50	7.50	36.83	61.38	3.89	6.48	31.73	52.88	3.22	5.37	25.57	42.62	2.62	4.36	17.07	28.46	3.11	5.19	21.08	35.13
North	U66-U67	445	1.27	2.12	30.15	50.25	1.37	2.28	26.18	43.63	2.86	4.76	67.99	113.32	1.87	3.12	44.93	74.89	1.62	2.71	38.69	64.49	1.34	2.23	31.22	52.03	1.16	1.94	21.60	35.99	1.37	2.28	27.36	45.60
North	U67-U68	446	1.40	2.33	43.19	71.98	1.44	2.41	40.58	67.63	3.13	5.21	97.16	161.93	2.05	3.42	63.93	106.54	1.78	2.96	55.23	92.04	1.53	2.55	45.05	75.09	1.36	2.27	32.23	53.71	1.54	2.57	40.67	67.78
North	U68-U69	447	1.40	2.33	43.17	71.96	1.44	2.41	40.59	67.65	3.13	5.21	97.13	161.88	2.06	3.43	63.90	106.50	1.78	2.96	55.22	92.03	1.53	2.55	45.03	75.05	1.36	2.27	32.27	53.78	1.54	2.57	40.75	67.92
North	U69-U70	448	1.62	2.70	49.29	82.15	1.76	2.94	56.59	94.32	3.62	6.04	110.08	183.47	2.37	3.96	71.78	119.63	2.06	3.43	62.20	103.67	1.70	2.84	51.29	85.48	1.49	2.49	37.80	62.99	1.72	2.87	49.82	83.03
North	U70-U71	449	3.15	5.25	70.65	117.75	3.48	5.79	118.22	197.04	7.09	11.81	157.24	262.06	4.71	7.84	104.82	174.69	4.06	6.76	90.25	150.41	3.35	5.59	75.78	126.31	2.81	4.68	53.48	89.13	3.25	5.42	72.22	120.37
North	U71-U72	450	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U72-U73	451	82.39	137.32	5.56	9.27	108.51	180.84	5.73	9.56	187.43	312.39	12.67	21.12	124.14	206.90	8.38	13.97	107.37	178.95	7.24	12.06	85.28	142.14	5.73	9.55	58.17	96.95	4.74	7.91	72.62	121.04	5.42	9.03
North	U73-U74	452	78.48	130.79	4.72	7.86	141.29	235.48	4.40	7.33	178.30	297.17	10.78	17.97	117.70	196.16	7.08	11.80	100.84	168.07	6.10	10.16	79.17	131.96	4.75	7.91	55.05	91.75	4.02	6.70	67.67	112.79	4.46	7.43
North	U74-U75	453	11.80	19.66	2.65	4.42	6.82	11.36	3.09	5.14	27.49	45.82	6.10	10.17	18.12	30.20	3.99	6.65	15.50	25.84	3.44	5.73	11.37	18.95	2.63	4.39	7.96	13.27	2.31	3.85	8.73	14.55	2.54	4.24
North	U75-U76	454	5.79	9.65	4.33	7.21	3.42	5.70	5.62	9.37	13.52	22.54	9.95	16.59	8.87	14.79	6.51	10.85	7.61	12.69	5.61	9.34	5.59	9.32	4.29	7.16	4.04	6.74	3.74	6.23	4.39	7.31	4.12	6.87
North	U76-U77	455	2.61	4.35	4.39	7.31	1.51	2.51	5.55	9.25	6.10	10.16	10.10	16.84	3.99	6.65	6.61	11.02	3.42	5.70	5.69	9.48	2.50	4.16	4.34	7.23	1.84	3.07	3.76	6.26	1.96	3.27	4.14	6.90

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	U77-U78	456	2.15	3.58	5.98	9.97	1.22	2.03	7.49	12.48	5.02	8.36	13.79	22.98	3.28	5.47	9.02	15.04	2.81	4.69	7.76	12.94	2.05	3.42	5.91	9.85	1.48	2.47	5.10	8.50	1.61	2.68	5.61	9.35
North	U78-U79	457	2.16	3.60	7.68	12.81	1.20	2.00	9.35	15.58	5.05	8.41	17.75	29.58	3.30	5.50	11.61	19.35	2.83	4.71	9.98	16.63	2.06	3.43	7.54	12.56	1.47	2.46	6.53	10.88	1.61	2.69	7.14	11.89
North	U79-U80	458	2.11	3.52	8.51	14.18	1.15	1.92	9.92	16.53	4.94	8.24	19.72	32.87	3.23	5.39	12.91	21.51	2.77	4.62	11.09	18.48	2.02	3.37	8.30	13.83	1.44	2.40	7.25	12.08	1.56	2.60	7.84	13.07
North	U80-U81	459	2.34	3.90	8.24	13.73	1.25	2.09	9.13	15.21	5.47	9.12	19.21	32.02	3.58	5.96	12.57	20.94	3.07	5.11	10.77	17.96	2.25	3.75	7.93	13.22	1.58	2.63	6.77	11.29	1.72	2.86	7.23	12.04
North	U81-U82	460	2.31	3.84	6.68	11.14	1.22	2.03	7.40	12.34	5.38	8.97	15.58	25.97	3.52	5.87	10.19	16.99	3.02	5.03	8.74	14.57	2.22	3.69	6.43	10.72	1.54	2.57	5.49	9.16	1.69	2.81	5.86	9.77
North	U82-U83	461	2.31	3.84	6.68	11.14	1.22	2.03	7.40	12.34	5.38	8.97	15.58	25.97	3.52	5.87	10.19	16.99	3.02	5.03	8.74	14.57	2.21	3.69	6.43	10.72	1.54	2.57	5.49	9.16	1.69	2.81	5.86	9.77
North	U83-U84	462	2.48	4.14	5.33	8.88	1.34	2.23	5.91	9.84	5.79	9.65	12.43	20.71	3.79	6.31	8.13	13.55	3.25	5.41	6.97	11.61	2.37	3.96	5.13	8.55	1.66	2.77	4.38	7.30	1.81	3.01	4.67	7.79
North	U84-U85	463	2.67	4.44	3.83	6.39	1.49	2.49	4.25	7.09	6.22	10.36	8.94	14.90	4.07	6.78	5.85	9.75	3.49	5.82	5.02	8.36	2.55	4.24	3.69	6.15	1.80	2.99	3.15	5.26	1.95	3.25	3.36	5.61
North	U85-U86	464	3.62	6.04	3.01	5.01	2.12	3.54	3.33	5.56	8.46	14.10	7.01	11.68	5.53	9.22	4.58	7.64	4.74	7.91	3.93	6.55	3.46	5.76	2.89	4.82	2.46	4.09	2.47	4.12	2.69	4.48	2.64	4.40
North	U86-U87	465	5.61	9.35	2.61	4.35	3.50	5.83	2.83	4.72	13.09	21.81	6.09	10.15	8.55	14.26	3.98	6.64	7.33	12.22	3.42	5.69	5.37	8.95	2.51	4.19	3.87	6.45	2.15	3.58	4.20	7.01	2.29	3.82
North	U87-U88	466	9.45	15.75	2.59	4.32	6.20	10.33	2.40	4.00	21.99	36.65	6.04	10.07	14.38	23.97	3.95	6.58	12.34	20.57	3.39	5.65	9.08	15.14	2.49	4.15	6.75	11.25	2.13	3.54	7.23	12.05	2.27	3.79
North	U88-U89	467	17.18	28.64	2.75	4.58	11.73	19.56	2.18	3.63	39.83	66.38	6.41	10.69	26.09	43.48	4.19	6.99	22.41	37.36	3.60	5.99	16.71	27.85	2.65	4.41	12.47	20.79	2.10	3.51	13.63	22.72	2.30	3.83
North	U89-U90	468	40.43	67.39	3.14	5.23	29.08	48.47	2.12	3.53	93.12	155.19	7.32	12.20	61.35	102.24	4.79	7.98	52.72	87.87	4.10	6.84	40.01	66.68	3.02	5.03	24.14	40.23	2.23	3.72	26.87	44.78	2.47	4.11
North	U90-U91	469	84.73	141.22	2.95	4.92	77.73	129.54	1.87	3.12	197.38	328.97	6.88	11.47	128.90	214.84	4.50	7.50	110.89	184.81	3.86	6.44	81.84	136.39	2.84	4.74	37.23	62.04	1.99	3.31	44.69	74.48	2.22	3.69
North	U91-U92	470	80.34	133.91	2.73	4.55	84.27	140.45	1.84	3.06	187.52	312.53	6.35	10.59	122.35	203.91	4.16	6.93	105.18	175.31	3.57	5.95	78.02	130.04	2.64	4.40	37.76	62.94	1.93	3.22	45.71	76.18	2.16	3.59
North	U92-U93	471	74.02	123.37	2.50	4.17	86.86	144.77	1.80	3.00	172.83	288.05	5.82	9.70	112.89	188.14	3.81	6.35	96.92	161.53	3.27	5.45	72.53	120.88	2.44	4.07	38.31	63.85	1.86	3.09	46.56	77.59	2.09	3.48
North	U93-U94	472	66.79	111.31	2.28	3.80	88.88	148.13	1.75	2.92	155.96	259.93	5.29	8.82	102.18	170.31	3.47	5.79	87.46	145.77	2.98	4.97	66.15	110.25	2.26	3.76	36.51	60.85	1.73	2.89	45.72	76.20	1.96	3.27
North	U94-U95	473	67.41	112.35	2.73	4.55	107.27	178.78	2.06	3.44	157.16	261.93	6.31	10.52	103.92	173.19	4.17	6.96	88.22	147.04	3.57	5.96	66.90	111.49	2.71	4.52	37.55	62.58	2.12	3.53	46.29	77.16	2.36	3.93
North	U95-U96	474	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U96-U97	475	2.13	3.54	68.25	113.76	2.01	3.35	90.25	150.42	4.88	8.14	158.27	263.78	3.24	5.39	104.58	174.31	2.77	4.62	89.01	148.35	2.15	3.58	69.35	115.58	1.74	2.90	42.25	70.42	1.92	3.20	50.49	84.15
North	U97-U98	476	1.62	2.69	60.40	100.67	1.55	2.59	80.01	133.35	3.70	6.17	139.84	233.07	2.43	4.05	91.32	152.20	2.09	3.49	78.65	131.08	1.63	2.72	61.18	101.96	1.36	2.27	39.30	65.49	1.51	2.51	45.83	76.39
North	U98-U99	477	1.42	2.37	57.42	95.70	1.33	2.22	67.73	112.88	3.26	5.43	132.41	220.68	2.13	3.55	86.51	144.18	1.84	3.06	74.67	124.44	1.44	2.40	57.05	95.09	1.22	2.03	39.09	65.14	1.32	2.21	43.24	72.06
North	U99-U100	478	1.41	2.35	52.62	87.70	1.32	2.21	59.07	98.45	3.20	5.34	120.42	200.71	2.10	3.51	79.02	131.70	1.81	3.02	67.98	113.29	1.45	2.42	51.97	86.61	1.21	2.01	34.22	57.04	1.37	2.28	41.07	68.45
North	U100-U101	479	1.41	2.35	52.64	87.74	1.32	2.21	59.15	98.58	3.20	5.34	120.48	200.80	2.10	3.51	79.06	131.76	1.81	3.02	68.01	113.34	1.45	2.42	51.99	86.66	1.21	2.01	34.23	57.05	1.37	2.28	41.08	68.47
North	U101-U102	480	1.40	2.33	43.88	73.13	1.31	2.18	45.37	75.62	3.18	5.29	100.88	168.14	2.08	3.47	66.44	110.73	1.80	2.99	56.90	94.83	1.41	2.35	43.62	72.71	1.19	1.99	30.02	50.03	1.31	2.18	34.73	57.89
North	U102-U103	481	1.53	2.56	33.23	55.39	1.46	2.43	32.77	54.62	3.50	5.84	76.16	126.93	2.30	3.83	50.12	83.53	1.98	3.30	43.00	71.67	1.55	2.58	33.07	55.11	1.30	2.17	23.78	39.64	1.43	2.38	26.19	43.65
North	U103-U104	482	1.86	3.10	19.93	33.22	1.85	3.09	18.80	31.33	4.24	7.06	45.67	76.12	2.80	4.67	30.09	50.15	2.41	4.02	25.79	42.99	1.90	3.16	19.80	33.01	1.56	2.59	14.70	24.50	1.72	2.87	16.62	27.70
North	U104-U105	483	19.90	33.16	19.62	32.71	22.51	37.51	16.36	27.26	45.43	75.72	45.05	75.09	29.80	49.67	29.56	49.26	25.65	42.74	25.39	42.32	19.84	33.07	19.36	32.27	16.07	26.78	15.39	25.65	18.54	30.89	17.51	29.19
North	U105-U106	484	32.31	53.86	4.35	7.26	40.52	67.54	3.60	6.01	71.96	119.94	10.18	16.96	47.84	79.73	6.67	11.11	41.51	69.18	5.71	9.52	33.44	55.74	4.25	7.08	33.62	56.04	3.37	5.61	37.44	62.41	3.82	6.36
North	U106-U107	485	65.35	108.91	4.41	7.35	65.72	109.53	3.43	5.71	145.88	243.13	10.27	17.11	96.87	161.46	6.74	11.23	83.98	139.96	5.78	9.64	68.45	114.08	4.30	7.16	58.57	97.61	3.40	5.67	65.85	109.75	3.86	6.43
North	U107-U108	486	96.92	161.53	4.74	7.89	79.23	132.04	3.42	5.71	219.30	365.50	11.01	18.36	146.33	243.89	7.22	12.04	126.27	210.44	6.19	10.32	102.29	170.49	4.59	7.65	75.17	125.29	3.58	5.97	85.70	142.83	3.93	6.56
North	U108-U109	487	124.80	208.01	5.03	8.39	83.25	138.75	3.39	5.65	285.01	475.02	11.73	19.54	187.86	313.10	7.67	12.78	162.32	270.53	6.58	10.97	133.47	222.46	4.85	8.08	84.37	140.62	3.65	6.09	96.90	161.50	4.00	6.66
North	U109-U110	488	138.48	230.80	5.57	9.28	78.03	130.04	3.49	5.81	327.61	546.02	12.98	21.64	214.20	357.00	8.49	14.14	183.71	306.18	7.28	12.14	128.79	214.65	5.34	8.90	82.50	137.50	3.85	6.41	91.91	153.18	4.20	7.00
North	U110-U111	489	42.51	70.85	5.72	9.53	32.73	54.55	3.87	6.46	97.72	162.87	13.34	22.24	64.24	107.06	8.73	14.54	55.26	92.09	7.48	12.47	42.64	71.07	5.48	9.13	31.90	53.16	4.05	6.75	35.16	58.61	4.38	7.30
North	U111-U112	490	20.97	34.95	4.99	8.31	15.81	26.36	3.99	6.65	48.42	80.70	11.64	19.39	31.81	53.02	7.61	12.69	27.37	45.61	6.53	10.88	20.45	34.08	4.79	7.98	15.63	26.05	3.77	6.28	17.12	28.53	4.07	6.78
North	U112-U113	491	11.86	19.77	4.76	7.94	8.10	13.50	4.61	7.69	27.41	45.68	11.11	18.52	17.99	29.98	7.27	12.12	15.46	25.76	6.23	10.39	11.52	19.20	4.57	7.62	8.62	14.37	3.90	6.50	9.40	15.66	4.15	6.92
North	U113-U114	492	6.40	10.67	4.28	7.13	4.12	6.86	4.68	7.79	14.86	24.76	9.98	16.63	9.75	16.24	6.53	10.89	8.36	13.94	5.60	9.33	6.16	10.26	4.11	6.85	4.44	7.40	3.51	5.84	4.91	8.18	3.73	6.22
North	U114-U115	493	3.57	5.94	4.43	7.38	2.12	3.54	4.84	8.07	8.31	13.84	10.31	17.19	5.44	9.07	6.75	11.25	4.67	7.78	5.79	9.65	3.41	5.69	4.25	7.08	2.43	4.04	3.63	6.04	2.64	4.40	3.86	6.44
North	U115-U116	494	2.62	4.37	5.84	9.74	1.50	2.49	6.39	10.66	6.10	10.17	13.61	22.69	4.00	6.66	8.91	14.85	3.43	5.71	7.64	12.73	2.51	4.18	5.61	9.35	1.78	2.97	4.79	7.98	1.94	3.23	5.10	8.50
North	U116-U117	495	2.16	3.60	7.18	11.97	1.33	2.21	8.70	14.50	5.03	8.38	16.74	27.89	3.29	5.49	10.95	18.26	2.83	4.71	9.39	15.65	2.07	3.45	6.90	11.50	1.47	2.45	5.89	9.81	1.60	2.67	6.28	10.46
North	U117-U118	496	1.97	3.29	9.01	15.02	1.19	1.98	10.91	18.19	4.60	7.66	21.00	35.00	3.01	5.02	13.74	22.91	2.58	4.30	11.78	19.64	1.90	3.17	8.66	14.43	1.34	2.24	7.39	12.32	1.48	2.47	7.88	13.13
North	U118-U119	497	1.98	3.29	9.02	15.03	1.18	1.97	10.91	18.19	4.60	7.67	21.01	35.02	3.01	5.02	13.76	22.93	2.58	4.31	11.79	19.66	1.90	3.17	8.67	14.44	1.34	2.24	7.40	12.33	1.48	2.47	7.88	13.14
North	U119-U120	498	1.95	3.25	11.07	18.45	1.19	1.98	13.42	22.36	4.54	7.57	25.79	42.99	2.98	4.96	16.89	28.14	2.55	4.26	14.48	24.13	1.88	3.13	10.64	17.73	1.34	2.23	9.08	15.14	1.45	2.42	9.68	16.14
North	U120-U121	499	2.02	3.37	13.27	22.12	1.26	2.09	16.15	26.92	4.72	7.87	30.91	51.52	3.09	5.16	20.24	33.73	2.65	4.42	17.35	28.92	1.94	3.23	12.76	21.26	1.40	2.33	10.89	18.15	1.51	2.52	11.61	19.35
North	U121-U122	500	2.15	3.58	15.53	25.88	1.36	2.26	19.05	31.75	5.02	8.37	36.16	60.27	3.29	5.48	23.67	39.46	2.82	4.70	20.30	33.84	2.05	3.41	14.93	24.88	1.48	2.47	12.75	21.24	1.60	2.67	13.59	22.65
North	U122-U123	501	2.11	3.52	17.23	28.72	1.36	2.27	21.41	35.69	4.95	8.26	40.16	66.93	3.24	5.41	26.26	43.77	2.78	4.63	22.52	37.54	2.01	3.35	16.59	27.65	1.46	2.44	14.11	23.52	1.60	2.66	15.05	25.09
North	U123-U124	502	2.23	3.72	19.09	31.82	1.46	2.43	24.24	40.40	5.25	8.75	44.50	74.16	3.44	5.73	29.10	48.50	2.95	4.91	24.95	41.59	2.12	3.54	18.38	30.63	1.57	2.61	15.63	26.05	1.69	2.81	16.67	27.79
North	U124-U125	503	2.77	4.62	22.19	36.98	1.85	3.08	28.94	48.23	6.53	10.89	51.70	86.17	4.28	7.13	33.81	56.36	3.66	6.10	29.00	48.33	2.62	4.37	21.35	35.58	1.91	3.18	18.15	30.26	2.06	3.43	19.37	32.28
North	U125-U126	504	7.18	11.96	38.98	64.96	4.61	7.68	49.74	82.91	16.99	28.32	90.84	151.40	11.11	18.52	59.41	99.02	9.50	15.84	50.95	84.91	6.75	11.25	37.51	62.52	4.85	8.09	31.89	53.15	5.28	8.79	34.02	56.70
South	U0-L0	505	0.80	1.33	55.29	92.15	0.75	1.25	122.80	204.67	1.78	2.97	115.31	192.18	1.19	1.99	78.97	131.62	1.04	1.74	71.01	118.35	0.80	1.33	62.64	104.40	0.67	1.12	48.67	81.12	0.75	1.25	61.36	102.26
South	U1-L1	506	1.50	2.49	76.59	127.65	1.38	2.30	178.09	296.82	3.33	5.55	161.24	268.74	2.23	3.71	109.92	183.19	1.95	3.25	96.60	160.99	1.54	2.57	87.60	145.99	1.30	2.16	63.77	106.28	1.48	2.46	80.78	134.63
South	U2-L2	507	1.31	2.19	64.98	108.30	1.30	2.17	147.72	246.19	2.88	4.81	129.66	216.10	1.94	3.23	89.85	149.74	1.70	2.83	81.33	135.55	1.39	2.32	75.57	125.96	1.19	1.99	57.37	95.61	1.37	2.29	72.01	120.01
South	U3-L3	508	1.31	2.19	20.77	34.61	1.47	2.45	40.98	68.31	2.81	4.69	42.59	70.98	1.91	3.18	29.08	48.47	1.68	2.80	26.06	43.44	1.46	2.43	29.23	48.72	1.29	2.15	28.10	46.83	1.46	2.43	37.88	63.13
South	U4-L4	509	3.85	6.41	5.90	9.84	7.07	11.78	13.02	21.70	7.99	13.31	12.67	21.12	5.47	9.11	8.53	14.22	4.92	8.19	7.54	12.57	4.68	7.81	7.46	12.44	4.45	7.42	7.18	11.96	4.83	8.04	9.23	15.39
South	U5-L5	510	1.22	2.04	38.61	64.35	1.37	2.28	122.45	204.09	2.13	3.55	68.01	113.35	1.46	2.43	46.40	77.34	1.33	2.22	42.49	70.81	1.55	2.59	48.91	81.51	1.23	2.04	39.06	65.10	1.55	2.59	49.55	82.58
South	U6-L6	511	1.16	1.94	71.39	118.98	1.09	1.81	167.44	279.07	2.64	4.40	155.75	259.59	1.75	2.91	104.67	174.45	1.52	2.53	92.18	153.63	1.22	2.03	80.22	133.70	1.01	1.69	52.68	87.79	1.17	1.95	68.13	113.55
South	U7-L7	512	1.59	2.66	80.94	134.90	1.65	2.75	177.30	295.50	3.64	6.07	182.69	304.49	2.41	4.02	121.29	202.15	2.09	3.48	105.40	175.67	1.63	2.72	86.33	143.88	1.35	2.25	57.72	96.19	1.47	2.45	63.66	106.10
South	U8-L8	513	1.62	2.70	83.70	139.50	1.33	2.21	188.07	313.45	3.64	6.07	184.94	308.24	2.42	4.04	123.75	206.25	2.12	3.53	108.53	180.88	1.66	2.77	88.92	148.21	1.30	2.16	53.33	88.89	1.45	2.42	64.23	107.05
South	U9-L9	514	1.87	3.12	91.18	151.96	1.56	2.59	219.77	366.28	4.17	6.94	202.16	336.93	2.78	4.63	134.71	224.52	2.42	4.04	117.60	196.00	2.06	3.43	105.96	176.60	1.50	2.50	58.42	97.37	1.78	2.96	72.86	121.44
South	U10-L10	515	1.61	2.69	25.34	42.24	1.16	1.93	31.88	53.14	3.69	6.15	57.88	96.47	2.45	4.08	38.28	63.79	2.10	3.50	32.94	54.90	1.57	2.62	25.07	41.78	1.23	2.05	22.41	37.35	1.32	2.19	23.68	39.47
South	U11-L11	516	1.81	3.02	15.79	26.32	1.67	2.78	20.10	33.50	4.11	6.85	35.49	59.15	2.73	4.55	23.57	39.28	2.38	3.96	20.31	33.85	1.81	3.01	15.87	26.45	1.50	2.50	13.86	23.09	1.64	2.73	16.09	26.81
South	U12-L12	517	1.44	2.40	13.15	21.92	1.35	2.25	16.89	28.15	3.25	5.41	29.56	49.27	2.16	3.61	19.63	32.72	1.89	3.15	16.92	28.20	1.45	2.42	13.29	22.14	1.23	2.04	12.00	20.00	1.34	2.23	13.39	22.31
South	U13-L13	518	1.33	2.22	10.33	17.21	1.18	1.97	13.42	22.36	2.98	4.97	23.21	38.68	1.99	3.32	15.41	25.69	1.74	2.90	13.28	22.14	1.36	2.27	10.43	17.38	1.14	1.90	9.37	15.62	1.21	2.02	10.50	17.50
South	U14-L14	519	1.56	2.60	8.75	14.58	1.14	1.89	12.54	20.91	3.45	5.75	19.19	31.98	2.31	3.85	12.83	21.39	2.03	3.39	11.20	18.67	1.63	2.71	9.62	16.03	1.20	2.00	8.41	14.01	1.39	2.32	9.72	16.20
South	U15-L15	520	1.25	2.09	41.85	69.75	1.40	2.33	132.31	220.52	2.19	3.64	74.30	123.84	1.49	2.49	50.67	84.44	1.37	2.28	46.27	77.12	1.59	2.65	52.79	87.99	1.25	2.09	41.26	68.77	1.57	2.62	50.35	83.91

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	U16-L16	521	1.73	2.89	6.99	11.64	1.55	2.58	16.23	27.04	3.93	6.55	15.93	26.55	2.61	4.34	10.55	17.58	2.26	3.77	9.12	15.20	1.82	3.03	6.99	11.66	1.43	2.38	5.99	9.98	1.68	2.80	9.79	16.32
South	U17-L17	522	1.41	2.34	8.40	14.00	1.35	2.25	18.82	31.36	3.21	5.35	19.26	32.10	2.12	3.54	12.73	21.22	1.84	3.06	10.99	18.32	1.44	2.40	8.32	13.87	1.21	2.02	7.26	12.10	1.32	2.21	11.22	18.71
South	U18-L18	523	1.44	2.40	11.03	18.38	1.36	2.26	21.83	36.38	3.29	5.49	25.20	42.00	2.18	3.63	16.67	27.79	1.88	3.14	14.40	23.99	1.46	2.44	10.97	18.29	1.21	2.02	9.65	16.09	1.33	2.22	13.27	22.12
South	U19-L19	524	1.83	3.04	13.61	22.68	1.74	2.91	19.32	32.20	4.18	6.96	30.76	51.27	2.76	4.61	20.41	34.02	2.39	3.99	17.60	29.33	1.86	3.10	13.65	22.75	1.54	2.56	12.10	20.16	1.69	2.82	14.09	23.48
South	U20-L20	525	1.68	2.80	21.80	36.34	1.29	2.15	37.06	61.76	3.85	6.41	49.55	82.59	2.55	4.24	32.87	54.79	2.19	3.65	28.37	47.29	1.66	2.77	21.62	36.03	1.35	2.25	19.55	32.58	1.44	2.41	24.80	41.33
South	U21-L21	526	1.68	2.80	65.12	108.54	1.52	2.53	136.47	227.44	3.57	5.96	136.08	226.80	2.43	4.05	92.93	154.88	2.12	3.53	80.66	134.43	1.87	3.11	74.13	123.55	1.45	2.42	45.85	76.41	1.70	2.84	57.74	96.23
South	U22-L22	527	1.49	2.49	76.82	128.04	1.33	2.21	146.13	243.55	3.23	5.38	161.28	268.80	2.19	3.64	110.56	184.26	1.91	3.18	95.95	159.91	1.54	2.56	77.76	129.59	1.27	2.12	47.99	79.99	1.45	2.42	60.13	100.21
South	U23-L23	528	1.24	2.06	63.51	105.85	1.19	1.99	106.64	177.73	2.72	4.54	139.72	232.87	1.83	3.05	93.63	156.05	1.60	2.67	82.17	136.95	1.31	2.18	67.96	113.27	1.11	1.84	43.16	71.93	1.29	2.14	57.79	96.31
South	U24-L24	529	1.16	1.94	41.42	69.03	1.23	2.05	73.79	122.99	2.50	4.17	89.42	149.04	1.69	2.82	60.27	100.45	1.48	2.47	53.27	88.78	1.30	2.16	48.40	80.66	1.12	1.87	43.31	72.18	1.30	2.17	51.52	85.86
South	U25-L25	530	1.16	1.94	40.36	67.26	1.30	2.17	124.48	207.47	2.03	3.38	70.50	117.51	1.39	2.31	48.27	80.44	1.27	2.12	44.21	73.68	1.48	2.47	51.85	86.42	1.16	1.94	40.19	66.98	1.47	2.44	50.38	83.96
South	U26-L26	531	1.81	3.01	20.86	34.76	2.29	3.81	33.84	56.40	3.90	6.50	34.94	58.24	2.62	4.37	25.89	43.15	2.31	3.86	25.73	42.89	2.23	3.71	24.85	41.41	1.81	3.02	22.61	37.68	2.26	3.77	28.07	46.78
South	U27-L27	532	1.28	2.13	41.12	68.53	1.40	2.34	80.14	133.57	2.83	4.72	91.41	152.34	1.89	3.15	60.99	101.64	1.65	2.76	53.09	88.48	1.45	2.42	45.13	75.22	1.24	2.06	33.47	55.78	1.46	2.43	46.24	77.06
South	U28-L28	533	1.60	2.67	52.06	86.76	1.61	2.68	102.49	170.82	3.61	6.01	117.94	196.57	2.40	4.00	78.17	130.28	2.09	3.48	67.71	112.85	1.72	2.87	54.85	91.42	1.44	2.40	38.73	64.55	1.70	2.84	52.46	87.43
South	U29-L29	534	1.59	2.66	61.07	101.79	1.49	2.49	122.52	204.20	3.51	5.85	134.79	224.65	2.35	3.92	90.23	150.38	2.07	3.44	79.04	131.74	1.69	2.82	64.02	106.70	1.39	2.32	44.47	74.12	1.61	2.69	55.33	92.22
South	U30-L30	535	3.09	5.16	49.88	83.14	2.14	3.57	74.32	123.87	7.05	11.75	112.54	187.57	4.68	7.81	74.93	124.88	4.02	6.69	64.45	107.42	3.02	5.03	50.10	83.51	2.33	3.88	46.02	76.71	2.53	4.22	53.78	89.63
South	U31-L31	536	1.78	2.96	22.33	37.22	1.63	2.72	32.26	53.77	4.02	6.69	50.04	83.39	2.67	4.45	33.33	55.55	2.33	3.88	28.92	48.21	1.77	2.96	23.08	38.47	1.48	2.46	20.23	33.72	1.61	2.69	23.06	38.43
South	U32-L32	537	1.59	2.65	22.25	37.08	1.48	2.47	27.06	45.10	3.58	5.97	49.80	82.99	2.39	3.98	33.27	55.44	2.08	3.47	28.60	47.67	1.60	2.67	22.28	37.13	1.35	2.25	19.20	31.99	1.47	2.46	21.45	35.76
South	U33-L33	538	1.66	2.76	18.15	30.26	1.58	2.63	21.58	35.97	3.70	6.17	40.72	67.86	2.48	4.13	27.19	45.31	2.16	3.60	23.38	38.97	1.69	2.82	18.21	30.35	1.44	2.39	15.44	25.73	1.55	2.59	17.42	29.03
South	U34-L34	539	1.61	2.68	9.76	16.27	1.49	2.49	15.69	26.15	3.55	5.92	21.05	35.09	2.38	3.97	14.17	23.62	2.09	3.49	12.45	20.75	1.68	2.80	11.75	19.58	1.34	2.23	9.78	16.31	1.56	2.59	12.31	20.52
South	U35-L35	540	1.33	2.21	43.55	72.58	1.48	2.47	141.46	235.76	2.32	3.86	76.71	127.85	1.58	2.64	52.33	87.22	1.45	2.42	47.90	79.83	1.69	2.81	55.62	92.70	1.33	2.22	43.97	73.29	1.73	2.89	59.43	99.06
South	U36-L36	541	2.06	3.44	15.31	25.52	2.01	3.35	22.18	36.96	4.69	7.81	34.33	57.22	3.11	5.18	22.84	38.07	2.69	4.49	19.90	33.16	2.16	3.60	16.18	26.97	1.78	2.96	14.14	23.57	2.08	3.46	16.06	26.77
South	U37-L37	542	1.60	2.67	17.29	28.82	1.54	2.57	25.05	41.75	3.66	6.11	39.04	65.06	2.42	4.04	25.92	43.20	2.10	3.50	22.53	37.54	1.64	2.74	17.97	29.94	1.38	2.31	15.49	25.82	1.51	2.52	17.63	29.39
South	U38-L38	543	1.39	2.31	19.33	32.22	1.29	2.15	26.53	44.21	3.17	5.28	43.57	72.62	2.10	3.49	28.96	48.27	1.81	3.02	25.14	41.90	1.41	2.35	19.90	33.17	1.17	1.94	17.24	28.73	1.28	2.13	19.52	32.53
South	U39-L39	544	1.73	2.88	22.16	36.93	1.58	2.64	28.85	48.08	3.94	6.57	49.75	82.92	2.61	4.35	33.21	55.35	2.26	3.76	28.57	47.62	1.76	2.93	22.21	37.02	1.45	2.42	19.38	32.29	1.59	2.66	21.63	36.06
South	U40-L40	545	3.07	5.12	45.41	75.69	2.18	3.63	73.62	122.70	6.99	11.65	102.82	171.36	4.64	7.73	68.14	113.56	3.99	6.66	58.93	98.22	3.06	5.10	45.99	76.65	2.39	3.98	39.12	65.20	2.63	4.38	44.92	74.86
South	U41-L41	546	1.86	3.10	79.82	133.03	1.56	2.60	168.44	280.73	3.94	6.56	168.44	280.73	2.69	4.48	115.37	192.28	2.34	3.90	100.17	166.95	1.89	3.15	78.44	130.73	1.55	2.58	50.82	84.71	1.71	2.85	60.35	100.58
South	U42-L42	547	1.48	2.47	65.73	109.55	1.32	2.20	137.50	229.16	3.33	5.55	154.76	257.93	2.22	3.70	101.41	169.01	1.94	3.23	86.81	144.68	1.51	2.52	64.92	108.20	1.26	2.09	43.40	72.34	1.43	2.39	55.35	92.25
South	U43-L43	548	1.45	2.42	66.81	111.35	1.39	2.31	129.41	215.68	3.19	5.31	144.67	241.12	2.14	3.57	97.63	162.72	1.88	3.13	85.30	142.16	1.54	2.57	73.26	122.09	1.29	2.15	50.15	83.58	1.50	2.50	61.58	102.63
South	U44-L44	549	1.42	2.36	24.12	40.19	1.41	2.36	35.64	59.40	3.04	5.07	45.77	76.28	2.06	3.43	32.17	53.62	1.81	3.02	29.85	49.75	1.59	2.64	30.23	50.38	1.35	2.26	28.17	46.94	1.54	2.57	35.49	59.16
South	U45-L45	550	1.44	2.39	50.54	84.24	1.52	2.54	166.46	277.43	2.50	4.17	89.14	148.57	1.71	2.85	60.96	101.61	1.57	2.61	55.68	92.80	1.82	3.03	64.21	107.02	1.44	2.39	50.49	84.15	1.80	3.00	62.05	103.42
South	U46-L46	551	1.29	2.15	33.10	55.16	1.41	2.35	53.80	89.67	2.84	4.73	55.62	92.70	1.90	3.16	40.73	67.88	1.66	2.77	40.42	67.37	1.47	2.44	40.31	67.18	1.26	2.10	29.72	49.53	1.49	2.48	42.66	71.10
South	U47-L47	552	1.39	2.31	69.00	115.00	1.34	2.23	132.07	220.12	3.10	5.17	154.80	257.99	2.06	3.44	102.81	171.35	1.80	3.00	89.50	149.16	1.50	2.51	75.96	126.61	1.26	2.11	54.49	90.82	1.49	2.48	74.85	124.75
South	U48-L48	553	1.69	2.81	80.26	133.76	1.47	2.45	125.02	208.37	3.83	6.38	188.99	314.98	2.52	4.21	123.74	206.24	2.18	3.63	105.77	176.28	1.75	2.91	80.28	133.81	1.46	2.43	54.61	91.02	1.67	2.79	70.72	117.86
South	U49-L49	554	1.88	3.13	78.67	131.12	1.59	2.65	137.79	229.65	4.13	6.89	167.54	279.23	2.75	4.59	113.27	188.78	2.40	4.00	100.34	167.24	1.96	3.27	83.25	138.74	1.73	2.88	52.32	87.19	1.81	3.02	63.71	106.19
South	U50-L50	555	3.27	5.45	57.25	95.41	1.99	3.31	80.84	134.73	7.51	12.52	130.87	218.11	4.94	8.24	86.13	143.55	4.25	7.08	74.12	123.53	3.21	5.35	57.82	96.37	2.36	3.93	57.45	95.76	2.62	4.37	59.49	99.15
South	U51-L51	556	2.46	4.10	29.75	49.58	1.92	3.20	33.42	55.70	5.66	9.43	66.75	111.25	3.72	6.20	44.09	73.48	3.22	5.36	38.14	63.57	2.47	4.11	30.60	51.01	1.99	3.32	26.40	44.00	2.20	3.67	29.45	49.08
South	U52-L52	557	2.02	3.37	26.64	44.40	1.61	2.69	31.25	52.09	4.64	7.74	60.48	100.80	3.06	5.09	40.00	66.67	2.64	4.40	34.55	57.59	2.03	3.38	26.49	44.15	1.72	2.87	23.61	39.35	1.84	3.06	26.00	43.34
South	U53-L53	558	2.56	4.27	24.60	41.00	2.13	3.54	29.04	48.40	5.88	9.80	56.59	94.32	3.87	6.45	37.07	61.79	3.35	5.58	31.93	53.22	2.59	4.31	24.47	40.78	2.12	3.54	21.44	35.73	2.34	3.90	23.94	39.90
South	U54-L54	559	1.83	3.05	15.92	26.54	1.54	2.57	18.85	31.42	4.18	6.96	36.65	61.09	2.75	4.59	24.01	40.02	2.38	3.97	20.68	34.46	1.86	3.09	15.85	26.41	1.55	2.58	13.73	22.88	1.67	2.78	15.47	25.78
South	U55-L55	560	2.14	3.56	9.33	15.55	1.87	3.11	13.17	21.95	4.85	8.09	20.81	34.69	3.21	5.34	13.81	23.02	2.78	4.63	12.03	20.05	2.21	3.69	10.00	16.67	1.93	3.21	8.91	14.85	2.08	3.47	10.57	17.61
South	U56-L56	561	1.97	3.28	30.95	51.59	2.10	3.51	87.07	145.12	3.50	5.84	55.93	93.21	2.37	3.95	38.07	63.45	2.15	3.58	34.33	57.21	2.47	4.12	39.59	65.98	1.97	3.29	30.97	51.62	2.45	4.09	39.01	65.01
South	U57-L57	562	1.87	3.12	15.88	26.46	1.50	2.50	18.32	30.53	4.28	7.13	36.22	60.37	2.83	4.71	23.80	39.66	2.44	4.07	20.57	34.29	1.91	3.18	16.40	27.34	1.52	2.53	13.74	22.90	1.69	2.82	15.51	25.85
South	U58-L58	563	2.25	3.74	25.54	42.56	1.88	3.13	28.95	48.24	5.14	8.56	57.81	96.35	3.39	5.66	38.14	63.56	2.93	4.88	33.07	55.11	2.27	3.79	25.92	43.20	1.87	3.12	21.46	35.77	2.21	3.68	24.15	40.25
South	U59-L59	564	2.73	4.55	34.46	57.43	2.17	3.61	37.87	63.12	6.27	10.44	79.06	131.77	4.13	6.89	51.82	86.36	3.57	5.95	44.71	74.52	2.74	4.57	34.76	57.94	2.24	3.73	29.02	48.37	2.54	4.23	32.62	54.37
South	U60-L60	565	2.16	3.61	27.64	46.06	1.68	2.80	33.03	55.04	4.95	8.25	63.58	105.97	3.27	5.44	41.67	69.44	2.82	4.70	35.88	59.80	2.18	3.63	27.49	45.82	1.79	2.99	23.83	39.72	1.94	3.24	26.59	44.32
South	U61-L61	566	2.27	3.78	23.60	39.33	1.77	2.94	27.74	46.23	5.17	8.62	54.28	90.47	3.42	5.69	35.57	59.28	2.96	4.93	30.63	51.05	2.31	3.84	23.47	39.12	1.88	3.13	20.55	34.25	2.07	3.45	22.93	38.21
South	U62-L62	567	2.60	4.33	37.83	63.04	1.85	3.08	85.07	141.79	5.93	9.88	86.85	144.76	3.89	6.48	57.21	95.35	3.35	5.58	49.16	81.94	2.59	4.31	38.04	63.40	2.12	3.53	33.40	55.66	2.35	3.91	38.75	64.58
South	U63-L63	568	1.95	3.26	77.37	128.96	1.71	2.85	158.70	264.49	4.36	7.27	172.69	287.81	2.88	4.80	113.55	189.24	2.50	4.16	98.56	164.27	2.18	3.63	86.84	144.73	1.65	2.76	56.60	94.33	2.20	3.67	87.16	145.26
South	U64-L64	569	1.91	3.18	69.42	115.70	1.62	2.70	134.17	223.61	4.29	7.15	156.26	260.43	2.83	4.72	102.71	171.18	2.45	4.09	89.12	148.53	1.98	3.29	71.44	119.06	1.60	2.66	45.59	75.99	1.80	3.00	54.94	91.57
South	U65-L65	570	1.50	2.49	72.74	121.23	1.34	2.24	147.05	245.08	3.44	5.73	169.44	282.40	2.27	3.79	111.49	185.81	1.95	3.25	95.41	159.01	1.55	2.58	70.76	117.94	1.27	2.12	45.27	75.45	1.46	2.43	57.29	95.49
South	U66-L66	571	1.39	2.31	60.06	100.09	1.36	2.26	109.75	182.91	3.14	5.24	136.05	226.75	2.08	3.46	90.67	151.11	1.79	2.99	77.29	128.82	1.49	2.49	65.37	108.95	1.24	2.06	41.04	68.41	1.44	2.40	51.26	85.43
South	U67-L67	572	1.46	2.44	23.96	39.94	1.62	2.70	34.29	57.16	3.27	5.46	44.30	73.83	2.16	3.61	31.12	51.87	1.88	3.13	27.99	46.64	1.67	2.78	28.43	47.39	1.40	2.34	27.10	45.16	1.64	2.73	31.99	53.32
South	U68-L68	573	1.91	3.18	55.77	92.95	2.15	3.59	192.77	321.28	3.43	5.72	98.70	164.50	2.30	3.83	66.41	110.68	2.07	3.46	59.55	99.26	2.40	4.00	68.80	114.67	1.90	3.16	54.51	90.84	2.39	3.99	69.80	116.33
South	U69-L69	574	1.33	2.21	27.68	46.13	1.49	2.49	44.21	73.69	2.93	4.89	49.19	81.99	1.96	3.26	34.38	57.31	1.69	2.82	31.61	52.69	1.47	2.46	30.90	51.51	1.26	2.11	23.70	39.50	1.51	2.51	31.38	52.30
South	U70-L70	575	1.32	2.19	49.50	82.51	1.32	2.19	93.05	155.09	2.96	4.93	110.35	183.92	1.96	3.27	73.21	122.01	1.70	2.83	62.86	104.77	1.40	2.33	52.55	87.59	1.18	1.96	36.69	61.15	1.39	2.32	47.86	79.76
South	U71-L71	576	1.87	3.11	62.22	103.71	1.72	2.87	124.20	207.00	4.26	7.09	141.50	235.84	2.81	4.69	93.72	156.21	2.44	4.06	80.74	134.56	1.93	3.21	63.98	106.64	1.59	2.66	43.89	73.15	1.82	3.04	55.21	92.02
South	U72-L72	577	1.74	2.90	67.80	113.00	1.50	2.49	129.14	215.24	3.87	6.46	152.11	253.52	2.58	4.30	100.93	168.21	2.23	3.71	86.60	144.34	1.78	2.96	68.75	114.58	1.47	2.45	49.76	82.93	1.61	2.69	57.25	95.42
South	U73-L73	578	2.12	3.53	70.51	117.52	1.85	3.08	136.69	227.82	4.68	7.79	155.28	258.81	3.11	5.19	102.72	171.21	2.69	4.48	88.36	147.27	2.34	3.90	78.39	130.65	1.76	2.93	45.82	76.37	2.07	3.46	58.81	98.02
South	U74-L74	579	3.21	5.35	31.35	52.25	2.03	3.38	36.33	60.55	7.52	12.53	72.09	120.15	4.92	8.21	47.47	79.12	4.22	7.03	40.92	68.19	3.08	5.14	31.46	52.44	2.22	3.69	26.52	44.20	2.42	4.03	29.45	49.08
South	U75-L75	580	2.25	3.76	16.79	27.98	1.50	2.50	19.51	32.52	5.27	8.79	38.80	64.66	3.48	5.79	25.39	42.32	2.97	4.95	21.81	36.35	2.18	3.64	16.45	27.41	1.58	2.63	14.22	23.70	1.72	2.87	15.53	25.89
South	U76-L76	581	1.87	3.11	16.94	28.23	1.25	2.08	18.27	30.45	4.37	7.29	39.27	65.45	2.88	4.80	25.72	42.87	2.46	4.10	22.07	36.79	1.81	3.01	16.40	27.33	1.34	2.23	14.16	23.61	1.44	2.40	15.11	25.19
South	U77-L77	582	2.44	4.07	16.95	28.26	1.66	2.76	17.61	29.35	5.72	9.53	39.51	65.86	3.76	6.27	25.88	43.13	3.22	5.36	22.17	36.96	2.37	3.95	16.33	27.22	1.80	3.00	14.00	23.34	1.91	3.19	14.92	24.86
South	U78-L78	583	2.42	4.04	14.31	23.84	1.69	2.82	14.80	24.67	5.66	9.43	33.34	55.57	3.73	6.22	21.84	36.40	3.19	5.31	18.71	31.18	2.36	3.93	13.78	22.96	1.77	2.95	11.80	19.67	1.93	3.21	12.57	20.94
South	U79-L79	584	2.51	4.18	11.60	19.33	1.77	2.95	11.96	19.93	5.86	9.76	27.03	45.05	3.86	6.43	17.70	29.50	3.30	5.49	15.17	25.28	2.45	4.08	11.17	18.61	1.85	3.08	9.55	15.92	2.01	3.35	10.17	16.95
South	U80-L80	585	3.40	5.66	10.52	17.53	2.52	4.19	10.80	18.00	7.88	13.13	24.51	40.86	5.21	8.68	16.05	26.75	4.45	7.42	13.75	22.92	3.36	5.60	10.12	16.87	2.55	4.25	8.65	14.42	2.80	4.67	9.21	15.34

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	U81-L81	586	3.03	5.05	5.08	8.46	2.52	4.20	5.95	9.92	7.01	11.69	11.63	19.38	4.63	7.72	7.66	12.77	3.96	6.60	6.62	11.03	3.01	5.02	5.14	8.56	2.44	4.06	4.35	7.25	2.69	4.49	4.94	8.24
South	U82-L82	587	1.96	3.27	56.03	93.38	2.21	3.68	191.92	319.87	3.55	5.92	103.27	172.12	2.38	3.96	69.24	115.41	2.14	3.57	61.68	102.79	2.46	4.11	69.33	115.54	1.96	3.27	55.48	92.47	2.46	4.11	70.16	116.93
South	U83-L83	588	1.98	3.31	19.51	32.52	1.22	2.03	27.20	45.33	4.61	7.68	44.31	73.84	3.03	5.05	29.39	48.99	2.61	4.34	25.28	42.13	1.96	3.26	20.26	33.77	1.28	2.14	16.71	27.86	1.55	2.59	19.43	32.38
South	U84-L84	589	1.93	3.22	27.58	45.97	1.25	2.08	32.36	53.93	4.50	7.49	63.43	105.72	2.96	4.93	41.51	69.18	2.54	4.24	35.72	59.53	1.89	3.16	27.35	45.58	1.32	2.20	21.28	35.46	1.46	2.44	23.87	39.78
South	U85-L85	590	2.76	4.61	31.86	53.09	1.84	3.06	37.88	63.13	6.44	10.73	73.33	122.21	4.23	7.05	48.01	80.01	3.64	6.06	41.29	68.82	2.70	4.49	31.49	52.49	1.94	3.23	25.59	42.65	2.11	3.52	28.23	47.06
South	U86-L86	591	2.26	3.77	25.39	42.32	1.54	2.57	29.43	49.05	5.27	8.79	58.78	97.97	3.47	5.78	38.51	64.18	2.98	4.97	33.09	55.14	2.20	3.66	24.81	41.35	1.63	2.71	20.89	34.82	1.76	2.94	22.88	38.13
South	U87-L87	592	2.14	3.56	17.00	28.33	1.44	2.39	18.94	31.56	4.98	8.29	39.64	66.06	3.27	5.45	25.92	43.21	2.81	4.69	22.23	37.05	2.08	3.46	16.36	27.27	1.55	2.58	13.98	23.29	1.65	2.75	14.92	24.86
South	U88-L88	593	1.88	3.13	9.64	16.06	1.28	2.13	10.37	17.28	4.36	7.27	22.47	37.44	2.87	4.78	14.69	24.49	2.47	4.12	12.60	21.00	1.83	3.05	9.27	15.46	1.36	2.26	7.92	13.20	1.47	2.44	8.45	14.08
South	U89-L89	594	2.47	4.11	8.36	13.94	1.75	2.92	8.98	14.96	5.71	9.52	19.50	32.51	3.76	6.27	12.76	21.26	3.24	5.40	10.94	18.23	2.42	4.03	8.05	13.42	1.79	2.99	6.87	11.46	1.96	3.27	7.34	12.23
South	U90-L90	595	4.15	6.92	3.02	5.03	3.37	5.61	3.15	5.25	9.61	16.02	7.03	11.71	6.29	10.48	4.60	7.66	5.40	9.01	3.95	6.58	4.02	6.70	2.93	4.88	3.11	5.18	2.50	4.16	3.43	5.71	2.67	4.44
South	U91-L91	596	2.02	3.36	12.16	20.27	3.10	5.17	13.13	21.88	4.50	7.50	28.20	47.01	2.97	4.96	18.53	30.89	2.58	4.30	15.92	26.53	2.29	3.82	12.31	20.52	2.34	3.90	10.36	17.27	3.11	5.19	11.55	19.26
South	U92-L92	597	1.55	2.58	59.15	98.58	1.64	2.73	138.84	231.39	3.45	5.76	132.47	220.79	2.28	3.80	87.21	145.35	1.98	3.29	75.53	125.88	1.74	2.90	65.76	109.60	1.49	2.49	51.37	85.62	1.78	2.97	62.61	104.35
South	U93-L93	598	1.59	2.64	62.90	104.84	1.37	2.28	122.71	204.52	3.56	5.93	141.61	236.01	2.35	3.92	93.63	156.06	2.03	3.39	80.55	134.25	1.77	2.95	70.40	117.34	1.32	2.21	41.23	68.71	1.53	2.55	48.39	80.65
South	U94-L94	599	1.68	2.79	84.79	141.31	1.22	2.04	146.69	244.48	3.84	6.39	192.09	320.15	2.54	4.23	127.30	212.16	2.18	3.64	109.07	181.78	1.74	2.89	90.68	151.14	1.31	2.18	49.38	82.30	1.43	2.39	55.60	92.67
South	U95-L95	600	1.55	2.59	79.99	133.31	1.14	1.90	131.32	218.86	3.62	6.04	184.40	307.34	2.39	3.98	121.94	203.23	2.04	3.40	104.24	173.73	1.53	2.54	77.73	129.55	1.15	1.92	42.14	70.23	1.33	2.21	52.98	88.29
South	U96-L96	601	3.55	5.92	97.56	162.61	2.78	4.63	164.92	274.86	8.23	13.71	224.48	374.13	5.44	9.07	148.47	247.45	4.65	7.75	126.98	211.63	3.54	5.90	95.62	159.37	2.76	4.61	53.90	89.83	3.07	5.11	67.33	112.22
South	U97-L97	602	1.20	2.00	59.30	98.83	1.01	1.68	104.15	173.58	2.76	4.61	135.71	226.19	1.83	3.04	90.19	150.32	1.57	2.61	76.90	128.17	1.22	2.03	59.31	98.86	0.98	1.64	37.16	61.93	1.09	1.82	43.45	72.42
South	U98-L98	603	1.19	1.98	37.91	63.18	1.10	1.84	59.87	99.78	2.73	4.54	72.45	120.75	1.81	3.01	50.99	84.98	1.55	2.58	45.35	75.58	1.23	2.06	41.60	69.33	1.02	1.70	32.74	54.57	1.18	1.96	40.72	67.86
South	U99-L99	604	1.28	2.13	14.02	23.37	1.40	2.33	26.85	44.75	2.90	4.83	28.34	47.24	1.93	3.21	19.31	32.19	1.66	2.76	17.35	28.92	1.37	2.28	20.19	33.65	1.14	1.90	17.29	28.82	1.42	2.36	25.64	42.73
South	U100-L100	605	1.36	2.26	43.49	72.48	1.53	2.55	150.85	251.41	2.45	4.09	79.74	132.89	1.64	2.74	53.49	89.15	1.48	2.47	47.68	79.46	1.70	2.84	53.86	89.77	1.35	2.26	43.34	72.23	2.13	3.55	133.02	221.69
South	U101-L101	606	1.65	2.75	10.87	18.12	1.96	3.26	22.31	37.18	3.72	6.21	22.59	37.64	2.47	4.11	15.42	25.70	2.14	3.57	13.46	22.44	1.77	2.95	15.88	26.47	1.52	2.54	16.76	27.93	1.94	3.23	24.64	41.06
South	U102-L102	607	1.36	2.27	33.77	56.29	1.31	2.18	53.43	89.05	3.11	5.18	65.16	108.61	2.05	3.42	44.74	74.57	1.78	2.96	41.23	68.72	1.41	2.35	36.49	60.82	1.18	1.97	36.53	60.89	1.37	2.29	48.43	80.71
South	U103-L103	608	1.34	2.23	68.10	113.50	1.14	1.90	129.33	215.55	3.07	5.11	155.70	259.50	2.02	3.37	103.29	172.15	1.75	2.91	89.14	148.57	1.35	2.26	69.00	115.00	1.11	1.85	47.35	78.91	1.22	2.03	54.57	90.96
South	U104-L104	609	1.63	2.71	85.57	142.62	1.29	2.15	145.95	243.25	3.76	6.26	194.79	324.64	2.47	4.12	129.76	216.26	2.13	3.55	112.12	186.87	1.62	2.71	83.78	139.64	1.28	2.13	47.21	78.69	1.42	2.36	60.15	100.26
South	U105-L105	610	1.41	2.35	96.05	160.09	1.03	1.72	160.47	267.46	3.29	5.49	219.70	366.16	2.16	3.60	145.64	242.73	1.86	3.10	125.30	208.83	1.38	2.31	92.51	154.18	1.04	1.73	46.26	77.10	1.21	2.01	60.03	100.05
South	U106-L106	611	1.67	2.79	99.84	166.39	1.24	2.07	187.37	312.28	3.78	6.31	221.43	369.05	2.51	4.18	146.41	244.01	2.17	3.61	125.83	209.72	1.75	2.91	106.64	177.74	1.36	2.26	52.46	87.44	1.48	2.47	64.78	107.96
South	U107-L107	612	1.53	2.55	76.82	128.04	1.29	2.14	162.92	271.53	3.40	5.67	169.98	283.30	2.26	3.77	112.00	186.66	1.95	3.26	96.45	160.76	1.67	2.79	83.97	139.95	1.26	2.10	49.85	83.08	1.44	2.40	58.03	96.72
South	U108-L108	613	1.57	2.62	56.64	94.39	1.66	2.77	137.74	229.57	3.47	5.79	125.53	209.22	2.31	3.85	82.70	137.83	2.00	3.33	71.20	118.67	1.75	2.92	61.68	102.80	1.51	2.51	50.42	84.03	1.85	3.09	59.77	99.62
South	U109-L109	614	2.80	4.67	7.90	13.16	6.19	10.31	8.21	13.68	6.10	10.17	18.13	30.22	4.05	6.76	11.96	19.93	3.52	5.86	10.28	17.14	3.19	5.32	7.90	13.17	3.80	6.33	6.25	10.42	4.74	7.90	6.93	11.55
South	U110-L110	615	2.25	3.75	2.94	4.90	1.73	2.89	3.04	5.06	5.21	8.68	6.83	11.38	3.41	5.69	4.47	7.45	2.93	4.89	3.84	6.40	2.19	3.65	2.85	4.75	1.68	2.80	2.40	4.00	1.83	3.05	2.58	4.29
South	U111-L111	616	1.84	3.06	9.37	15.61	1.27	2.12	10.02	16.70	4.24	7.07	21.82	36.36	2.79	4.65	14.28	23.81	2.40	4.00	12.24	20.41	1.80	3.00	9.00	15.01	1.33	2.21	7.69	12.82	1.44	2.41	8.20	13.66
South	U112-L112	617	1.75	2.92	12.76	21.26	1.19	1.98	13.71	22.85	4.07	6.79	29.72	49.53	2.67	4.45	19.46	32.43	2.30	3.83	16.68	27.80	1.71	2.86	12.26	20.44	1.27	2.12	10.47	17.45	1.36	2.26	11.16	18.61
South	U113-L113	618	2.13	3.55	23.24	38.73	1.44	2.39	25.73	42.88	4.96	8.26	54.17	90.28	3.25	5.41	35.45	59.08	2.79	4.66	30.39	50.65	2.08	3.46	22.33	37.21	1.57	2.61	19.06	31.76	1.64	2.73	20.30	33.84
South	U114-L114	619	2.56	4.27	69.70	116.17	1.69	2.82	81.62	136.03	5.96	9.94	160.74	267.90	3.90	6.51	105.87	176.44	3.36	5.61	91.33	152.22	2.52	4.20	68.37	113.94	1.81	3.01	40.70	67.83	2.01	3.35	46.66	77.77
South	U115-L115	620	3.37	5.62	59.25	98.75	2.05	3.41	106.73	177.88	7.86	13.09	135.85	226.41	5.15	8.58	89.34	148.91	4.43	7.39	77.25	128.76	3.31	5.51	60.60	100.99	2.20	3.67	42.55	70.91	2.46	4.10	50.27	83.78
South	U116-L116	621	2.89	4.81	30.65	51.09	1.54	2.57	48.02	80.03	6.73	11.22	70.46	117.43	4.41	7.36	46.47	77.45	3.80	6.33	40.14	66.90	2.84	4.73	31.35	52.24	1.93	3.21	29.41	49.02	2.10	3.50	32.68	54.47
South	U117-L117	622	3.07	5.11	22.04	36.74	1.70	2.83	34.43	57.38	7.14	11.90	50.60	84.33	4.69	7.81	33.42	55.71	4.03	6.71	28.88	48.13	3.03	5.05	22.54	37.57	1.99	3.32	22.52	37.54	2.45	4.09	25.91	43.19
South	U118-L118	623	2.55	4.24	28.10	46.84	2.57	4.29	77.27	128.78	4.52	7.53	50.52	84.20	3.06	5.10	34.22	57.03	2.77	4.62	30.99	51.66	3.18	5.30	36.11	60.19	2.53	4.22	28.36	47.26	3.18	5.30	76.58	127.63
South	U119-L119	624	5.21	8.69	4.31	7.19	6.07	10.12	4.19	6.98	11.99	19.98	9.91	16.52	7.92	13.20	6.52	10.86	6.82	11.36	5.62	9.37	5.20	8.66	4.40	7.33	5.11	8.51	3.76	6.27	5.58	9.30	4.54	7.57
South	U120-L120	625	3.90	6.50	8.54	14.23	3.14	5.23	8.08	13.47	8.97	14.96	19.85	33.08	5.92	9.86	12.96	21.61	5.09	8.49	11.15	18.58	3.86	6.43	8.40	14.00	3.72	6.20	7.13	11.88	3.51	5.85	7.60	12.67
South	U121-L121	626	2.16	3.59	10.15	16.91	1.49	2.48	9.41	15.68	5.00	8.33	23.66	39.43	3.28	5.47	15.47	25.79	2.83	4.71	13.27	22.11	2.11	3.52	9.75	16.26	1.66	2.77	8.28	13.81	1.79	2.99	8.83	14.72
South	U122-L122	627	2.40	3.99	14.36	23.94	1.57	2.61	13.35	22.25	5.55	9.25	33.49	55.82	3.65	6.08	21.90	36.51	3.14	5.24	18.78	31.30	2.35	3.92	13.81	23.02	1.79	2.99	11.74	19.56	1.95	3.25	12.51	20.86
South	U123-L123	628	3.15	5.26	21.00	34.99	2.04	3.40	19.56	32.59	7.30	12.16	48.95	81.59	4.80	8.00	32.01	53.35	4.14	6.89	27.45	45.75	3.11	5.18	20.19	33.65	2.43	4.05	17.17	28.61	2.53	4.22	18.30	30.51
South	U124-L124	629	2.54	4.23	24.24	40.40	1.64	2.73	22.62	37.70	5.85	9.75	56.46	94.10	3.85	6.42	36.95	61.59	3.32	5.54	31.69	52.82	2.51	4.18	23.32	38.86	1.87	3.12	19.83	33.05	2.02	3.37	21.15	35.24
South	U125-L125	630	2.64	4.41	30.37	50.62	1.74	2.90	28.54	47.56	6.09	10.14	70.71	117.85	4.01	6.68	46.29	77.15	3.46	5.77	39.70	66.16	2.63	4.38	29.22	48.69	1.91	3.18	24.96	41.60	2.12	3.53	26.62	44.36
South	U126-L126	631	2.72	4.53	38.94	64.90	2.05	3.42	36.87	61.45	6.56	10.93	90.70	151.16	4.23	7.05	59.37	98.96	3.67	6.11	50.91	84.84	2.72	4.54	37.43	62.38	1.99	3.31	31.91	53.18	2.21	3.68	34.04	56.73
North	U0-L0	632	0.80	1.33	55.24	92.07	0.75	1.25	72.92	121.53	1.78	2.97	115.22	192.04	1.19	1.98	78.91	131.51	1.04	1.73	70.96	118.27	0.80	1.33	62.55	104.25	0.67	1.11	48.58	80.97	0.75	1.25	61.24	102.07
North	U1-L1	633	1.49	2.49	76.56	127.60	1.37	2.28	119.06	198.44	3.32	5.54	161.21	268.69	2.22	3.71	109.89	183.15	1.95	3.24	96.57	160.95	1.54	2.57	87.51	145.85	1.30	2.16	63.70	106.16	1.48	2.46	80.68	134.46
North	U2-L2	634	1.31	2.18	64.98	108.29	1.28	2.14	111.00	185.00	2.88	4.80	129.65	216.09	1.93	3.22	89.84	149.74	1.70	2.83	81.33	135.54	1.39	2.32	75.56	125.94	1.19	1.98	57.36	95.61	1.37	2.28	71.99	119.98
North	U3-L3	635	1.31	2.18	20.79	34.64	1.46	2.44	39.83	66.38	2.80	4.67	42.63	71.04	1.90	3.17	29.11	48.51	1.67	2.79	26.09	43.48	1.46	2.43	29.26	48.76	1.29	2.15	28.12	46.87	1.45	2.42	37.91	63.18
North	U4-L4	636	3.84	6.41	5.91	9.84	6.97	11.62	12.85	21.41	7.98	13.30	12.68	21.13	5.46	9.10	8.54	14.23	4.91	8.19	7.55	12.58	4.68	7.80	7.47	12.45	4.45	7.41	7.18	11.97	4.82	8.03	9.24	15.41
North	U5-L5	637	1.22	2.03	38.49	64.15	1.36	2.26	117.11	195.19	2.13	3.54	67.73	112.89	1.45	2.42	46.23	77.04	1.33	2.22	42.34	70.56	1.55	2.58	48.73	81.22	1.22	2.04	38.94	64.89	1.55	2.58	49.37	82.29
North	U6-L6	638	1.16	1.93	71.40	119.01	1.07	1.79	115.64	192.73	2.63	4.38	155.84	259.73	1.74	2.90	104.69	174.49	1.51	2.52	92.19	153.65	1.21	2.02	80.26	133.76	1.01	1.68	52.65	87.75	1.17	1.95	68.11	113.52
North	U7-L7	639	1.59	2.65	80.95	134.91	1.68	2.80	159.77	266.29	3.63	6.06	182.69	304.48	2.40	4.01	121.30	202.17	2.08	3.47	105.41	175.68	1.63	2.71	86.34	143.89	1.34	2.24	57.65	96.08	1.47	2.45	63.59	105.98
North	U8-L8	640	1.62	2.70	83.70	139.50	1.32	2.20	152.36	253.93	3.63	6.05	184.93	308.22	2.42	4.03	123.74	206.24	2.11	3.52	108.52	180.87	1.66	2.76	88.92	148.20	1.29	2.16	53.29	88.81	1.45	2.41	64.17	106.95
North	U9-L9	641	1.87	3.11	91.35	152.26	1.52	2.54	174.91	291.52	4.15	6.92	202.56	337.61	2.77	4.61	134.99	224.98	2.42	4.03	117.84	196.39	2.05	3.42	106.30	177.17	1.50	2.50	58.59	97.66	1.77	2.95	73.12	121.87
North	U10-L10	642	1.60	2.66	25.33	42.22	1.06	1.77	31.85	53.09	3.65	6.09	57.84	96.40	2.42	4.04	38.25	63.76	2.08	3.46	32.93	54.88	1.56	2.59	25.07	41.78	1.22	2.03	22.41	37.34	1.30	2.17	23.69	39.48
North	U11-L11	643	1.80	3.00	15.80	26.33	1.47	2.45	19.88	33.14	4.09	6.81	35.49	59.15	2.72	4.53	23.57	39.28	2.36	3.94	20.31	33.86	1.80	3.00	15.87	26.46	1.49	2.48	13.86	23.10	1.63	2.72	16.09	26.82
North	U12-L12	644	1.43	2.39	13.16	21.93	1.21	2.01	16.85	28.08	3.23	5.39	29.58	49.29	2.15	3.59	19.64	32.74	1.88	3.13	16.93	28.21	1.45	2.41	13.30	22.16	1.22	2.03	12.01	20.02	1.33	2.22	13.40	22.34
North	U13-L13	645	1.33	2.21	10.33	17.22	1.08	1.80	13.42	22.36	2.97	4.95	23.23	38.72	1.98	3.30	15.43	25.71	1.73	2.89	13.29	22.16	1.35	2.26	10.44	17.40	1.13	1.89	9.38	15.64	1.21	2.01	10.52	17.53
North	U14-L14	646	1.55	2.59	8.76	14.60	1.12	1.86	12.51	20.85	3.44	5.73	19.22	32.03	2.30	3.84	12.85	21.42	2.02	3.37	11.22	18.69	1.62	2.70	9.63	16.05	1.20	1.99	8.42	14.04	1.39	2.31	9.74	16.24
North	U15-L15	647	1.25	2.09	41.96	69.93	1.30	2.17	91.25	152.09	2.18	3.64	74.36	123.94	1.49	2.49	50.69	84.49	1.37	2.28	46.34	77.24	1.59	2.65	52.86	88.09	1.25	2.09	41.36	68.94	1.57	2.61	50.40	84.00
North	U16-L16	648	1.73	2.88	6.99	11.65	1.40	2.33	15.97	26.62	3.93	6.54	15.94	26.57	2.60	4.34	10.55	17.59	2.26	3.76	9.12	15.21	1.81	3.02	7.00	11.66	1.42	2.37	5.99	9.98	1.68	2.80	9.80	16.34
North	U17-L17	649	1.40	2.33	8.41	14.01	1.20	1.99	18.39	30.65	3.20	5.33	19.27	32.12	2.12	3.53	12.74	21.23	1.83	3.05	11.00	18.33	1.44	2.39	8.33	13.88	1.21	2.01	7.26	12.11	1.32	2.20	11.23	18.71
North	U18-L18	650	1.43	2.39	11.03	18.39	1.21	2.02	21.44	35.74	3.28	5.46	25.21	42.01	2.17	3.61	16.68	27.80	1.88	3.13	14.40	24.00	1.46	2.43	10.98	18.30	1.21	2.01	9.66	16.09	1.32	2.21	13.27	22.11

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	U19-L19	651	1.82	3.03	13.61	22.68	1.58	2.63	19.20	32.00	4.16	6.93	30.75	51.25	2.75	4.58	20.41	34.02	2.38	3.97	17.60	29.33	1.85	3.08	13.65	22.74	1.53	2.55	12.09	20.15	1.68	2.80	14.08	23.47
North	U20-L20	652	1.66	2.77	21.78	36.30	1.21	2.02	36.12	60.21	3.81	6.35	49.49	82.49	2.52	4.20	32.84	54.73	2.17	3.62	28.34	47.24	1.64	2.74	21.60	36.01	1.34	2.23	19.51	32.52	1.43	2.38	24.77	41.29
North	U21-L21	653	1.68	2.79	65.23	108.71	1.50	2.50	108.51	180.85	3.56	5.94	136.36	227.26	2.42	4.03	93.10	155.16	2.11	3.52	80.84	134.74	1.86	3.10	74.32	123.87	1.45	2.41	45.96	76.60	1.70	2.83	57.93	96.55
North	U22-L22	654	1.49	2.48	76.63	127.72	1.32	2.20	118.43	197.38	3.22	5.37	160.60	267.67	2.18	3.64	110.18	183.63	1.91	3.18	95.60	159.34	1.54	2.56	77.59	129.32	1.27	2.11	47.90	79.83	1.45	2.42	59.99	99.99
North	U23-L23	655	1.23	2.06	63.63	106.04	1.18	1.97	88.58	147.64	2.72	4.53	140.04	233.40	1.83	3.04	93.83	156.39	1.60	2.67	82.33	137.22	1.31	2.18	67.98	113.30	1.10	1.84	43.14	71.90	1.28	2.14	57.81	96.35
North	U24-L24	656	1.16	1.94	41.46	69.10	1.21	2.02	57.15	95.26	2.50	4.16	89.50	149.17	1.69	2.82	60.33	100.55	1.48	2.47	53.32	88.87	1.29	2.16	48.49	80.81	1.12	1.87	43.38	72.29	1.30	2.17	51.84	86.40
North	U25-L25	657	1.16	1.94	40.37	67.28	1.27	2.12	112.97	188.29	2.02	3.37	70.51	117.51	1.38	2.31	48.28	80.47	1.27	2.12	44.22	73.70	1.48	2.47	51.87	86.44	1.16	1.94	40.20	67.00	1.46	2.44	50.39	83.99
North	U26-L26	658	1.80	3.01	20.90	34.83	2.26	3.77	32.25	53.75	3.89	6.49	35.00	58.33	2.62	4.37	25.93	43.22	2.31	3.85	25.78	42.96	2.22	3.71	24.95	41.58	1.81	3.02	22.63	37.72	2.26	3.76	28.21	47.02
North	U27-L27	659	1.28	2.13	41.15	68.58	1.38	2.31	65.24	108.74	2.83	4.71	91.48	152.47	1.89	3.14	61.04	101.73	1.65	2.75	53.14	88.57	1.45	2.41	45.17	75.28	1.23	2.06	33.50	55.83	1.45	2.42	46.25	77.08
North	U28-L28	660	1.60	2.67	52.01	86.68	1.61	2.68	69.95	116.58	3.61	6.01	117.80	196.34	2.40	4.00	78.09	130.15	2.08	3.47	67.65	112.76	1.72	2.87	54.82	91.36	1.44	2.40	38.71	64.51	1.70	2.84	52.44	87.39
North	U29-L29	661	1.59	2.66	61.37	102.28	1.49	2.48	80.25	133.75	3.51	5.85	135.72	226.21	2.35	3.92	90.80	151.33	2.07	3.44	79.47	132.45	1.69	2.82	64.26	107.09	1.39	2.32	44.63	74.39	1.61	2.69	55.57	92.61
North	U30-L30	662	3.03	5.05	49.85	83.09	1.98	3.29	72.32	120.53	6.90	11.51	112.46	187.43	4.59	7.65	74.83	124.71	3.94	6.56	64.40	107.33	2.96	4.93	50.37	83.96	2.28	3.80	45.88	76.46	2.48	4.13	53.71	89.52
North	U31-L31	663	1.73	2.89	22.41	37.36	1.41	2.34	31.37	52.29	3.92	6.53	50.22	83.70	2.61	4.35	33.45	55.74	2.27	3.79	29.04	48.40	1.73	2.88	23.21	38.68	1.44	2.39	20.35	33.92	1.57	2.62	23.21	38.69
North	U32-L32	664	1.54	2.57	22.10	36.84	1.29	2.15	27.99	46.65	3.48	5.79	49.51	82.51	2.32	3.86	33.06	55.10	2.02	3.36	28.44	47.41	1.55	2.58	22.13	36.88	1.31	2.18	19.24	32.07	1.43	2.38	21.56	35.93
North	U33-L33	665	1.59	2.65	17.93	29.89	1.38	2.30	22.90	38.17	3.56	5.93	40.27	67.11	2.38	3.96	26.88	44.79	2.08	3.46	23.13	38.55	1.62	2.70	17.96	29.93	1.38	2.29	15.47	25.79	1.49	2.48	17.55	29.25
North	U34-L34	666	1.51	2.51	9.96	16.59	1.35	2.24	16.88	28.13	3.34	5.57	21.48	35.81	2.24	3.73	14.46	24.10	1.96	3.27	12.70	21.16	1.57	2.62	11.94	19.89	1.25	2.09	10.02	16.71	1.45	2.42	12.58	20.96
North	U35-L35	667	1.32	2.21	43.37	72.29	1.39	2.32	98.06	163.43	2.31	3.85	76.36	127.27	1.58	2.63	52.11	86.84	1.45	2.41	47.70	79.51	1.68	2.81	55.39	92.32	1.33	2.22	43.80	73.00	1.73	2.88	59.20	98.66
North	U36-L36	668	2.11	3.52	15.32	25.54	1.79	2.98	21.08	35.14	4.80	8.00	34.36	57.27	3.18	5.30	22.86	38.10	2.76	4.60	19.91	33.19	2.22	3.69	16.19	26.98	1.81	3.02	14.01	23.35	2.12	3.53	15.96	26.61
North	U37-L37	669	1.61	2.68	17.47	29.12	1.37	2.28	24.28	40.47	3.68	6.14	39.43	65.72	2.44	4.06	26.18	43.63	2.11	3.51	22.75	37.92	1.65	2.75	18.18	30.29	1.39	2.31	15.44	25.73	1.52	2.53	17.63	29.39
North	U38-L38	670	1.36	2.27	19.55	32.58	1.15	1.92	25.96	43.27	3.11	5.18	44.04	73.40	2.06	3.43	29.28	48.80	1.78	2.97	25.42	42.37	1.38	2.31	20.18	33.63	1.14	1.91	17.31	28.84	1.25	2.09	19.65	32.75
North	U39-L39	671	1.68	2.80	22.48	37.47	1.41	2.35	28.23	47.05	3.84	6.40	50.40	84.00	2.54	4.24	33.66	56.11	2.20	3.67	28.98	48.30	1.71	2.85	22.60	37.66	1.41	2.35	19.50	32.51	1.55	2.58	21.78	36.29
North	U40-L40	672	2.95	4.92	46.26	77.09	2.06	3.43	67.03	111.71	6.72	11.20	104.55	174.25	4.45	7.42	69.31	115.52	3.84	6.40	59.99	99.99	2.94	4.90	46.95	78.25	2.29	3.81	39.17	65.28	2.52	4.20	45.19	75.32
North	U41-L41	673	1.84	3.06	79.37	132.29	1.53	2.55	131.10	218.50	3.90	6.49	167.34	278.89	2.66	4.44	114.65	191.08	2.32	3.86	99.50	165.83	1.86	3.11	78.00	130.00	1.53	2.56	49.42	82.37	1.68	2.80	57.83	96.38
North	U42-L42	674	1.46	2.43	65.40	109.00	1.29	2.15	106.91	178.19	3.28	5.47	154.03	256.71	2.19	3.65	100.91	168.19	1.91	3.18	86.40	144.01	1.49	2.48	64.14	106.89	1.24	2.06	40.91	68.18	1.41	2.35	51.49	85.81
North	U43-L43	675	1.43	2.38	65.23	108.72	1.33	2.22	82.93	138.22	3.13	5.22	142.59	237.66	2.11	3.51	96.03	160.04	1.85	3.08	83.89	139.81	1.51	2.52	69.52	115.86	1.27	2.12	43.95	73.24	1.47	2.45	55.18	91.96
North	U44-L44	676	1.28	2.13	22.82	38.03	1.40	2.33	30.40	50.67	2.74	4.56	43.88	73.13	1.85	3.09	30.83	51.38	1.63	2.72	28.58	47.63	1.42	2.37	27.65	46.08	1.20	2.01	25.51	42.51	1.40	2.34	30.20	50.33
North	U45-L45	677	1.33	2.21	43.20	72.00	1.52	2.53	121.14	201.90	2.32	3.86	75.99	126.65	1.58	2.64	51.97	86.61	1.45	2.41	47.56	79.26	1.69	2.81	54.52	90.86	1.33	2.21	43.21	72.02	1.66	2.77	52.89	88.15
North	U46-L46	678	1.19	1.99	25.37	42.29	1.42	2.36	45.11	75.18	2.64	4.39	44.51	74.19	1.76	2.93	32.10	53.51	1.54	2.56	31.33	52.22	1.35	2.25	32.40	53.99	1.16	1.93	24.68	41.14	1.37	2.28	36.75	61.25
North	U47-L47	679	1.27	2.12	47.27	78.78	1.32	2.20	87.77	146.28	2.86	4.77	102.89	171.48	1.90	3.17	69.06	115.10	1.65	2.75	60.80	101.33	1.36	2.27	54.26	90.43	1.15	1.91	38.93	64.88	1.33	2.22	54.90	91.50
North	U48-L48	680	1.40	2.33	47.98	79.96	1.33	2.22	76.50	127.50	3.20	5.33	106.17	176.95	2.11	3.52	70.80	118.00	1.83	3.05	61.09	101.82	1.43	2.39	51.69	86.16	1.19	1.98	35.65	59.41	1.36	2.27	47.55	79.25
North	U49-L49	681	1.70	2.83	56.27	93.78	1.49	2.48	86.70	144.50	3.74	6.23	123.95	206.58	2.48	4.13	82.29	137.15	2.16	3.60	71.85	119.74	1.77	2.95	61.39	102.32	1.44	2.40	48.24	80.39	1.58	2.63	51.64	86.06
North	U50-L50	682	2.90	4.83	45.34	75.57	1.83	3.06	67.01	111.69	6.77	11.28	104.59	174.32	4.44	7.41	68.58	114.30	3.81	6.34	58.89	98.16	2.78	4.63	46.04	76.73	2.05	3.42	42.48	70.80	2.23	3.72	47.16	78.59
North	U51-L51	683	1.72	2.87	21.49	35.82	1.32	2.20	27.97	46.62	4.00	6.66	49.20	82.00	2.63	4.39	32.41	54.01	2.26	3.77	27.87	46.46	1.67	2.79	21.48	35.80	1.33	2.21	18.63	31.05	1.43	2.38	20.73	34.55
North	U52-L52	684	1.48	2.46	20.91	34.86	1.15	1.92	29.08	48.46	3.42	5.70	48.06	80.10	2.25	3.76	31.50	52.49	1.94	3.23	27.14	45.23	1.45	2.41	20.83	34.72	1.20	2.01	18.46	30.77	1.27	2.11	20.35	33.91
North	U53-L53	685	1.81	3.02	19.60	32.66	1.46	2.43	26.74	44.57	4.18	6.97	45.04	75.07	2.76	4.59	29.52	49.21	2.38	3.96	25.43	42.39	1.79	2.98	19.52	32.53	1.47	2.46	17.09	28.48	1.60	2.66	19.05	31.74
North	U54-L54	686	1.78	2.97	15.96	26.59	1.51	2.52	21.56	35.93	4.08	6.80	36.69	61.15	2.69	4.49	24.05	40.08	2.32	3.87	20.71	34.52	1.78	2.97	15.89	26.48	1.47	2.44	13.79	22.99	1.59	2.65	15.50	25.83
North	U55-L55	687	1.42	2.37	9.93	16.54	1.31	2.18	15.07	25.12	3.24	5.40	22.09	36.82	2.14	3.57	14.67	24.45	1.85	3.09	12.79	21.32	1.44	2.41	10.61	17.69	1.24	2.07	9.22	15.36	1.32	2.21	10.90	18.17
North	U56-L56	688	1.60	2.67	84.22	140.37	1.91	3.18	2168.04	3613.40	2.85	4.75	148.60	247.67	1.93	3.22	101.07	168.45	1.74	2.91	92.16	153.60	2.00	3.34	107.45	179.08	1.60	2.67	85.14	141.90	1.99	3.32	105.59	175.99
North	U57-L57	689	1.29	2.16	18.05	30.09	1.06	1.76	21.98	36.63	2.97	4.95	39.87	66.45	1.96	3.26	26.65	44.42	1.69	2.81	23.24	38.74	1.31	2.19	18.82	31.37	1.09	1.82	15.21	25.34	1.20	1.99	17.54	29.24
North	U58-L58	690	1.80	3.00	24.73	41.21	1.46	2.44	29.10	48.50	4.16	6.93	56.71	94.52	2.73	4.56	37.40	62.33	2.35	3.92	32.15	53.59	1.80	2.99	24.75	41.25	1.48	2.47	20.59	34.32	1.67	2.78	23.12	38.53
North	U59-L59	691	1.83	3.06	26.82	44.71	1.44	2.40	32.68	54.47	4.25	7.09	61.47	102.45	2.80	4.66	40.50	67.51	2.40	4.00	34.82	58.04	1.80	3.01	26.79	44.65	1.49	2.48	22.59	37.65	1.63	2.72	25.27	42.11
North	U60-L60	692	1.60	2.67	20.54	34.23	1.27	2.12	28.68	47.80	3.71	6.18	47.25	78.74	2.44	4.07	30.97	51.62	2.10	3.49	26.66	44.43	1.57	2.61	20.48	34.13	1.30	2.17	17.92	29.87	1.37	2.28	20.02	33.36
North	U61-L61	693	1.85	3.08	15.81	26.34	1.52	2.53	23.19	38.65	4.28	7.14	36.36	60.59	2.82	4.69	23.83	39.72	2.42	4.03	20.51	34.19	1.81	3.02	15.76	26.27	1.45	2.42	13.91	23.18	1.56	2.59	15.43	25.72
North	U62-L62	694	2.85	4.74	24.61	41.01	1.92	3.21	34.51	57.51	6.63	11.05	56.61	94.35	4.34	7.23	37.23	62.05	3.72	6.20	32.00	53.33	2.75	4.59	25.01	41.68	2.21	3.68	21.40	35.67	2.40	4.00	24.46	40.77
North	U63-L63	695	2.09	3.48	69.79	116.32	1.78	2.97	105.52	175.86	4.63	7.72	158.98	264.96	3.07	5.11	103.34	172.23	2.66	4.44	89.79	149.64	2.33	3.88	77.88	129.80	1.76	2.94	51.09	85.14	2.27	3.79	85.33	142.21
North	U64-L64	696	1.75	2.92	67.43	112.38	1.49	2.48	102.86	171.43	3.92	6.53	154.29	257.14	2.59	4.32	100.14	166.90	2.25	3.75	87.19	145.31	1.80	3.01	70.39	117.31	1.46	2.44	44.52	74.19	1.63	2.72	55.11	91.84
North	U65-L65	697	1.47	2.45	73.98	123.30	1.32	2.21	108.62	181.03	3.37	5.61	174.65	291.08	2.23	3.72	114.88	191.46	1.91	3.19	97.52	162.53	1.51	2.52	72.99	121.65	1.25	2.08	46.48	77.47	1.42	2.37	58.62	97.69
North	U66-L66	698	1.37	2.28	59.91	99.86	1.20	2.00	83.37	138.95	3.08	5.14	138.22	230.36	2.04	3.41	90.93	151.55	1.76	2.94	77.71	129.52	1.47	2.45	65.87	109.78	1.22	2.03	41.13	68.54	1.41	2.35	51.21	85.35
North	U67-L67	699	1.43	2.39	23.51	39.18	1.46	2.43	37.36	62.26	3.19	5.31	45.35	75.58	2.12	3.53	31.13	51.88	1.83	3.06	28.48	47.47	1.62	2.71	28.34	47.24	1.37	2.29	27.40	45.67	1.60	2.67	32.28	53.79
North	U68-L68	700	1.90	3.17	55.84	93.06	2.07	3.46	84.83	141.39	3.42	5.70	99.22	165.36	2.30	3.83	66.17	110.28	2.07	3.44	59.81	99.69	2.37	3.96	70.00	116.66	1.90	3.17	54.03	90.06	2.41	4.01	67.94	113.24
North	U69-L69	701	1.35	2.24	25.56	42.60	1.47	2.44	19.19	31.98	2.97	4.95	49.20	81.99	1.98	3.30	33.20	55.33	1.71	2.85	30.45	50.75	1.49	2.49	30.58	50.97	1.28	2.13	23.68	39.46	1.52	2.54	30.33	50.55
North	U70-L70	702	1.32	2.21	48.58	80.97	1.29	2.14	71.59	119.31	2.98	4.96	108.46	180.77	1.98	3.30	72.25	120.41	1.70	2.84	62.23	103.71	1.41	2.35	51.85	86.41	1.18	1.96	36.47	60.78	1.36	2.27	49.01	81.68
North	U71-L71	703	1.88	3.13	61.39	102.31	1.73	2.88	60.76	101.27	4.27	7.12	139.70	232.83	2.83	4.71	92.50	154.16	2.44	4.07	80.01	133.35	1.93	3.22	63.51	105.85	1.60	2.67	43.37	72.28	1.83	3.05	53.97	89.95
North	U72-L72	704	1.74	2.90	67.01	111.69	1.45	2.41	123.17	205.29	3.88	6.47	150.47	250.78	2.58	4.29	100.17	166.95	2.23	3.71	86.36	143.93	1.78	2.96	68.52	114.21	1.46	2.43	49.91	83.18	1.61	2.69	57.10	95.16
North	U73-L73	705	2.12	3.54	69.80	116.34	1.81	3.02	93.07	155.12	4.68	7.80	153.75	256.26	3.11	5.18	102.68	171.13	2.69	4.48	88.19	146.99	2.34	3.90	77.99	129.99	1.76	2.93	45.94	76.57	2.07	3.46	58.77	97.95
North	U74-L74	706	3.14	5.23	30.67	51.12	1.85	3.09	33.14	55.23	7.35	12.24	70.55	117.58	4.81	8.02	46.43	77.38	4.13	6.88	40.05	66.75	3.01	5.02	30.72	51.20	2.15	3.58	25.74	42.90	2.36	3.94	28.56	47.61
North	U75-L75	707	2.23	3.72	16.52	27.53	1.31	2.19	17.91	29.85	5.20	8.67	38.17	63.61	3.43	5.71	24.97	41.61	2.93	4.89	21.46	35.77	2.15	3.58	16.17	26.95	1.55	2.59	13.92	23.21	1.69	2.82	15.22	25.36
North	U76-L76	708	1.87	3.11	16.57	27.62	1.12	1.86	17.62	29.36	4.35	7.26	38.53	64.21	2.87	4.78	25.23	42.06	2.46	4.09	21.63	36.05	1.80	3.00	16.04	26.74	1.33	2.22	13.88	23.14	1.43	2.38	14.79	24.65
North	U77-L77	709	2.44	4.06	16.58	27.63	1.49	2.48	17.22	28.70	5.68	9.46	38.64	64.40	3.74	6.24	25.28	42.13	3.20	5.34	21.68	36.13	2.35	3.92	15.95	26.59	1.78	2.96	13.62	22.70	1.89	3.16	14.53	24.22
North	U78-L78	710	2.41	4.02	14.06	23.43	1.52	2.53	14.63	24.39	5.61	9.35	32.78	54.63	3.70	6.17	21.44	35.73	3.17	5.28	18.38	30.64	2.34	3.89	13.53	22.55	1.76	2.93	11.56	19.26	1.90	3.17	12.33	20.55
North	U79-L79	711	2.50	4.16	11.46	19.09	1.59	2.65	11.93	19.88	5.80	9.67	26.71	44.52	3.83	6.38	17.47	29.12	3.28	5.46	14.98	24.97	2.43	4.04	11.03	18.38	1.83	3.05	9.42	15.70	1.99	3.32	10.05	16.75
North	U80-L80	712	3.39	5.64	10.44	17.40	2.35	3.92	10.87	18.12	7.81	13.02	24.34	40.57	5.16	8.60	15.92	26.54	4.43	7.38	13.65	22.76	3.32	5.54	10.05	16.75	2.52	4.21	8.59	14.32	2.78	4.63	9.16	15.27
North	U81-L81	713	3.02	5.03	5.10	8.49	2.48	4.13	6.05	10.08	6.95	11.58	11.66	19.44	4.58	7.64	7.69	12.82	3.94	6.57	6.65	11.08	2.98	4.96	5.15	8.59	2.41	4.01	4.32	7.20	2.67	4.44	4.96	8.27
North	U82-L82	714	1.97	3.28	55.84	93.06	2.07	3.45	1063.99	1773.31	3.55	5.92	103.41	172.35	2.39	3.98	68.74	114.56	2.14	3.57	61.69	102.82	2.45	4.08	70.02	116.71	1.96	3.26	55.59	92.65	2.46	4.10	70.40	117.34
North	U83-L83	715	2.00	3.33	19.68	32.80	1.13	1.89	23.97	39.96	4.64	7.73	44.41	74.02	3.05	5.09	29.38	48.96	2.63	4.38	25.52	42.53	1.97	3.29	20.25	33.75	1.30	2.17	16.57	27.62	1.56	2.59	19.50	32.50

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	U84-L84	716	1.95	3.24	27.40	45.67	1.11	1.85	30.05	50.08	4.52	7.54	63.02	105.03	2.97	4.96	41.24	68.74	2.56	4.27	35.50	59.17	1.90	3.17	27.16	45.27	1.34	2.23	20.98	34.96	1.47	2.45	23.74	39.57
North	U85-L85	717	2.76	4.61	31.59	52.64	1.61	2.68	34.94	58.23	6.43	10.72	72.72	121.20	4.23	7.05	47.59	79.31	3.64	6.06	40.96	68.27	2.70	4.49	31.14	51.89	1.94	3.24	25.33	42.21	2.11	3.51	28.12	46.87
North	U86-L86	718	2.26	3.76	24.89	41.49	1.38	2.29	27.92	46.53	5.26	8.77	57.61	96.01	3.46	5.77	37.77	62.94	2.98	4.96	32.42	54.03	2.19	3.65	24.32	40.53	1.62	2.69	20.45	34.09	1.75	2.92	22.35	37.26
North	U87-L87	719	2.13	3.54	16.50	27.50	1.32	2.20	18.12	30.20	4.95	8.25	38.46	64.10	3.26	5.43	25.18	41.96	2.80	4.67	21.58	35.96	2.06	3.44	15.89	26.48	1.54	2.57	13.61	22.68	1.64	2.73	14.49	24.15
North	U88-L88	720	1.86	3.11	9.41	15.68	1.20	2.00	10.05	16.75	4.33	7.21	21.93	36.56	2.85	4.75	14.36	23.93	2.45	4.08	12.31	20.51	1.81	3.02	9.06	15.10	1.34	2.23	7.77	12.95	1.45	2.41	8.28	13.79
North	U89-L89	721	2.44	4.06	8.11	13.51	1.70	2.83	8.65	14.42	5.65	9.42	18.90	31.49	3.72	6.20	12.37	20.62	3.20	5.33	10.60	17.67	2.39	3.98	7.81	13.01	1.77	2.95	6.70	11.16	1.93	3.22	7.13	11.89
North	U90-L90	722	4.11	6.84	2.91	4.86	3.16	5.27	3.00	5.00	9.52	15.86	6.78	11.29	6.23	10.38	4.44	7.39	5.35	8.92	3.81	6.35	3.97	6.62	2.83	4.71	3.05	5.08	2.39	3.98	3.38	5.63	2.56	4.27
North	U91-L91	723	2.05	3.41	12.01	20.02	3.26	5.44	11.71	19.52	4.55	7.58	27.62	46.03	3.01	5.02	18.28	30.46	2.61	4.35	15.66	26.11	2.32	3.86	12.08	20.13	2.37	3.95	10.08	16.80	3.19	5.32	11.28	18.80
North	U92-L92	724	1.57	2.61	58.05	96.76	1.72	2.86	67.22	112.03	3.49	5.81	131.99	219.98	2.31	3.85	85.83	143.05	2.00	3.34	74.61	124.35	1.76	2.93	64.89	108.14	1.51	2.51	51.01	85.02	1.78	2.97	63.30	105.50
North	U93-L93	725	1.60	2.67	62.00	103.34	1.39	2.32	92.89	154.81	3.58	5.97	141.60	236.01	2.37	3.95	92.61	154.34	2.05	3.42	79.89	133.14	1.78	2.97	70.03	116.72	1.35	2.24	40.63	67.71	1.54	2.57	48.29	80.48
North	U94-L94	726	1.70	2.83	83.03	138.39	1.24	2.07	110.39	183.98	3.88	6.46	190.78	317.96	2.57	4.28	125.10	208.50	2.21	3.68	107.47	179.11	1.76	2.93	89.41	149.01	1.31	2.19	48.83	81.39	1.45	2.42	54.87	91.44
North	U95-L95	727	1.58	2.63	77.94	129.90	1.12	1.87	68.45	114.09	3.66	6.10	182.01	303.35	2.41	4.02	120.31	200.51	2.07	3.44	102.13	170.21	1.54	2.57	76.67	127.78	1.17	1.95	41.29	68.81	1.35	2.24	51.73	86.22
North	U96-L96	728	3.59	5.98	94.88	158.13	2.41	4.01	104.63	174.39	8.29	13.81	221.18	368.63	5.48	9.13	146.27	243.79	4.69	7.82	124.18	206.97	3.56	5.93	94.17	156.95	2.78	4.64	52.91	88.19	3.09	5.15	65.17	108.62
North	U97-L97	729	1.25	2.09	57.56	95.93	1.06	1.77	70.33	117.22	2.88	4.79	133.54	222.57	1.91	3.18	88.25	147.09	1.63	2.72	75.09	125.15	1.26	2.11	58.32	97.21	1.02	1.71	35.47	59.11	1.13	1.88	42.34	70.57
North	U98-L98	730	1.26	2.10	34.91	58.18	1.24	2.06	55.10	91.83	2.87	4.78	67.36	112.27	1.90	3.17	46.71	77.85	1.63	2.72	42.47	70.78	1.30	2.16	38.97	64.96	1.07	1.78	30.89	51.49	1.24	2.07	38.34	63.90
North	U99-L99	731	1.39	2.31	13.19	21.98	1.55	2.58	22.61	37.69	3.13	5.22	26.58	44.30	2.09	3.48	18.10	30.17	1.79	2.99	16.25	27.09	1.47	2.46	18.79	31.32	1.23	2.05	16.03	26.72	1.55	2.59	23.37	38.96
North	U100-L100	732	1.34	2.24	43.28	72.14	1.67	2.78	746.31	1243.84	2.43	4.04	79.58	132.64	1.63	2.72	52.95	88.26	1.46	2.44	47.56	79.26	1.67	2.79	54.41	90.69	1.34	2.24	43.15	71.92	2.16	3.60	114.33	190.54
North	U101-L101	733	1.47	2.45	11.76	19.60	1.71	2.86	22.22	37.03	3.31	5.52	24.07	40.11	2.19	3.66	16.58	27.64	1.91	3.18	14.43	24.05	1.57	2.61	16.86	28.09	1.34	2.23	18.25	30.42	1.71	2.84	26.78	44.64
North	U102-L102	734	1.29	2.15	33.97	56.61	1.23	2.06	57.42	95.69	2.95	4.91	68.99	114.99	1.95	3.24	46.41	77.35	1.69	2.81	42.33	70.55	1.33	2.22	38.74	64.57	1.11	1.85	38.63	64.39	1.30	2.17	51.37	85.62
North	U103-L103	735	1.28	2.13	71.41	119.01	1.08	1.81	126.95	211.58	2.94	4.90	164.05	273.42	1.94	3.23	108.95	181.58	1.67	2.79	93.55	155.91	1.29	2.15	72.64	121.07	1.06	1.76	49.46	82.43	1.16	1.94	60.01	100.02
North	U104-L104	736	1.99	3.31	95.78	159.63	1.61	2.68	116.94	194.90	4.58	7.64	221.36	368.93	3.02	5.03	147.30	245.50	2.60	4.34	126.35	210.58	1.98	3.30	93.90	156.49	1.55	2.58	54.24	90.40	1.73	2.88	67.11	111.84
North	U105-L105	737	1.67	2.79	107.08	178.46	1.22	2.03	172.31	287.19	3.90	6.50	244.68	407.81	2.56	4.27	162.24	270.40	2.20	3.67	140.70	234.51	1.64	2.73	103.34	172.24	1.23	2.05	52.12	86.86	1.43	2.38	68.56	114.27
North	U106-L106	738	1.73	2.88	108.58	180.96	1.26	2.10	171.71	286.18	3.91	6.51	240.98	401.63	2.59	4.32	160.70	267.84	2.23	3.72	138.29	230.48	1.79	2.99	117.72	196.20	1.29	2.15	66.43	110.71	1.49	2.48	75.15	125.24
North	U107-L107	739	1.72	2.87	96.80	161.34	1.41	2.35	189.51	315.85	3.83	6.38	213.84	356.39	2.55	4.24	142.78	237.97	2.20	3.66	122.50	204.17	1.87	3.11	107.51	179.19	1.40	2.34	63.22	105.36	1.59	2.66	74.66	124.43
North	U108-L108	740	2.34	3.91	73.44	122.40	2.37	3.95	150.66	251.09	5.19	8.65	162.52	270.87	3.44	5.74	108.48	180.80	2.98	4.96	93.04	155.07	2.59	4.32	81.01	135.01	2.20	3.67	64.76	107.93	2.54	4.24	87.96	146.60
North	U109-L109	741	4.44	7.39	14.12	23.54	9.19	15.32	14.78	24.63	9.66	16.11	32.48	54.13	6.40	10.67	21.38	35.64	5.56	9.27	18.37	30.62	5.06	8.43	14.11	23.51	5.70	9.49	11.46	19.10	7.62	12.70	12.73	21.22
North	U110-L110	742	3.75	6.24	3.13	5.22	3.02	5.03	3.23	5.38	8.73	14.55	7.28	12.13	5.71	9.52	4.76	7.94	4.90	8.17	4.09	6.82	3.61	6.02	3.04	5.06	2.77	4.61	2.57	4.28	3.04	5.06	2.76	4.59
North	U111-L111	743	2.69	4.48	10.53	17.55	1.85	3.08	11.46	19.09	6.22	10.37	24.55	40.91	4.09	6.82	16.05	26.76	3.52	5.87	13.77	22.94	2.61	4.35	10.13	16.89	1.94	3.23	8.61	14.35	2.15	3.59	9.18	15.31
North	U112-L112	744	2.28	3.80	15.97	26.62	1.43	2.38	17.17	28.61	5.30	8.84	37.23	62.06	3.48	5.81	24.35	40.59	3.00	5.00	20.88	34.80	2.20	3.66	15.37	25.61	1.61	2.69	13.06	21.76	1.77	2.96	13.92	23.21
North	U113-L113	745	3.51	5.85	33.68	56.13	2.07	3.46	37.30	62.17	8.20	13.67	78.54	130.91	5.39	8.98	51.37	85.61	4.63	7.72	44.04	73.40	3.36	5.60	32.38	53.97	2.50	4.16	27.50	45.84	2.81	4.68	29.33	48.88
North	U114-L114	746	3.41	5.68	101.32	168.86	1.92	3.20	115.68	192.80	7.98	13.29	237.56	395.93	5.24	8.73	155.26	258.77	4.50	7.51	133.03	221.71	3.25	5.42	96.74	161.24	2.41	4.01	79.18	131.96	2.61	4.36	85.74	142.91
North	U115-L115	747	3.25	5.41	113.59	189.31	1.77	2.96	296.39	493.99	7.61	12.68	247.45	412.42	5.00	8.33	165.68	276.14	4.29	7.15	145.18	241.97	3.11	5.18	127.64	212.74	2.22	3.70	113.28	188.80	2.45	4.08	131.96	219.94
North	U116-L116	748	2.05	3.41	39.38	65.63	1.29	2.15	85.56	142.60	4.78	7.96	88.38	147.30	3.14	5.24	58.71	97.85	2.70	4.50	50.99	84.98	1.98	3.31	42.14	70.23	1.43	2.39	43.19	71.99	1.58	2.63	47.44	79.06
North	U117-L117	749	2.07	3.44	23.69	39.48	1.40	2.33	51.46	85.77	4.80	7.99	53.53	89.22	3.16	5.27	35.44	59.06	2.72	4.53	30.69	51.16	2.03	3.39	24.80	41.33	1.47	2.46	27.75	46.26	1.73	2.88	30.51	50.85
North	U118-L118	750	1.77	2.96	162.78	271.30	2.18	3.64	301.00	501.66	3.14	5.24	293.78	489.63	2.13	3.56	201.09	335.16	1.93	3.22	181.01	301.68	2.23	3.71	207.42	345.70	1.78	2.96	165.44	275.73	2.88	4.80	207.65	346.08
North	U119-L119	751	3.81	6.35	4.47	7.45	5.54	9.24	5.81	9.69	8.83	14.72	10.06	16.77	5.80	9.67	6.68	11.14	4.99	8.32	5.80	9.67	3.78	6.30	4.62	7.70	3.69	6.15	4.11	6.84	4.32	7.21	4.84	8.06
North	U120-L120	752	2.12	3.53	7.91	13.19	2.00	3.34	9.74	16.23	4.93	8.21	18.14	30.23	3.23	5.39	11.95	19.92	2.78	4.64	10.29	17.15	2.08	3.47	8.02	13.36	1.91	3.19	6.90	11.51	1.98	3.30	7.49	12.49
North	U121-L121	753	1.96	3.27	12.38	20.63	1.53	2.56	14.15	23.59	4.59	7.65	28.84	48.07	3.01	5.02	18.88	31.46	2.58	4.31	16.18	26.97	1.90	3.17	11.89	19.81	1.50	2.51	10.14	16.91	1.63	2.71	10.81	18.01
North	U122-L122	754	2.27	3.78	17.16	28.60	1.63	2.72	19.83	33.06	5.32	8.87	39.98	66.63	3.49	5.81	26.17	43.62	2.99	4.99	22.44	37.39	2.18	3.64	16.49	27.48	1.66	2.76	14.07	23.46	1.84	3.07	15.00	25.00
North	U123-L123	755	2.15	3.59	18.31	30.51	1.47	2.46	21.42	35.71	5.07	8.45	42.64	71.07	3.32	5.53	27.91	46.52	2.84	4.74	23.94	39.90	2.05	3.42	17.60	29.33	1.55	2.58	15.03	25.04	1.75	2.92	16.02	26.70
North	U124-L124	756	2.67	4.46	22.49	37.48	1.77	2.95	26.90	44.84	6.32	10.53	52.40	87.33	4.13	6.89	34.27	57.11	3.54	5.89	29.39	48.98	2.53	4.21	21.64	36.07	1.86	3.10	18.41	30.68	2.02	3.37	19.64	32.73
North	U125-L125	757	2.46	4.10	24.58	40.97	1.59	2.64	30.46	50.76	5.83	9.72	56.89	94.82	3.81	6.36	37.47	62.45	3.26	5.43	32.13	53.55	2.31	3.85	23.66	39.43	1.67	2.78	20.12	33.53	1.80	3.00	21.46	35.77
North	U126-L126	758	4.53	7.56	35.60	59.33	2.68	4.47	45.88	76.47	10.80	18.00	84.90	141.51	7.06	11.76	56.16	93.61	6.03	10.04	48.63	81.04	4.20	7.00	36.76	61.26	2.93	4.88	31.25	52.08	3.12	5.21	34.57	57.62
South	U0-L1	759	44.15	73.58	1.63	2.71	73.27	122.12	1.51	2.52	91.23	152.04	3.62	6.03	62.73	104.55	2.42	4.04	55.16	91.94	2.12	3.53	52.21	87.01	1.68	2.81	47.20	78.66	1.43	2.39	59.29	98.81	1.63	2.72
South	U1-L2	760	49.54	82.56	1.59	2.64	87.59	145.98	1.57	2.61	102.01	170.02	3.48	5.80	70.04	116.73	2.34	3.90	61.88	103.13	2.05	3.41	59.37	98.94	1.69	2.81	50.79	84.65	1.46	2.43	62.57	104.28	1.67	2.79
South	U2-L3	761	26.36	43.93	1.35	2.25	59.84	99.73	1.46	2.44	54.48	90.79	2.89	4.81	37.17	61.95	1.96	3.26	33.04	55.07	1.71	2.86	35.21	58.69	1.50	2.51	34.98	58.30	1.34	2.23	39.40	65.67	1.50	2.50
South	U3-L4	762	6.06	10.10	1.89	3.15	13.84	23.07	2.60	4.33	12.98	21.64	3.90	6.50	8.75	14.59	2.68	4.46	7.73	12.89	2.36	3.94	7.71	12.85	2.31	3.86	9.25	15.41	2.01	3.36	11.50	19.16	2.33	3.88
South	U4-L5	763	1.72	2.87	7.56	12.60	2.37	3.96	15.32	25.54	3.80	6.34	14.42	24.03	2.54	4.24	10.13	16.88	2.23	3.71	9.37	15.62	1.97	3.29	11.00	18.33	1.77	2.94	12.15	20.26	2.08	3.47	17.80	29.66
South	U6-L5	764	24.53	40.89	1.48	2.47	37.60	62.67	1.55	2.59	42.83	71.38	3.33	5.54	31.37	52.28	2.21	3.69	30.60	51.00	1.93	3.21	30.36	50.61	1.61	2.68	30.43	50.72	1.37	2.29	38.68	64.47	1.62	2.70
South	U7-L6	765	57.80	96.33	1.65	2.74	125.42	209.03	1.54	2.57	125.06	208.44	3.73	6.22	84.26	140.44	2.48	4.13	74.44	124.06	2.15	3.58	68.35	113.91	1.72	2.87	45.61	76.02	1.44	2.40	57.37	95.62	1.67	2.78
South	U8-L7	766	63.43	105.71	1.94	3.23	118.17	196.95	1.66	2.76	143.27	238.78	4.43	7.39	95.09	158.48	2.93	4.89	82.61	137.69	2.54	4.23	67.61	112.69	1.98	3.30	45.14	75.24	1.64	2.73	49.79	82.99	1.79	2.98
South	U9-L8	767	56.74	94.57	1.96	3.27	130.09	216.81	1.63	2.72	123.07	205.11	4.30	7.17	82.89	138.16	2.89	4.81	73.25	122.09	2.54	4.24	60.60	101.01	2.04	3.40	36.55	60.92	1.59	2.65	44.18	73.63	1.79	2.98
South	U10-L9	768	48.59	80.98	1.90	3.16	124.91	208.18	1.72	2.86	105.93	176.55	4.11	6.84	70.93	118.22	2.76	4.60	62.26	103.76	2.43	4.05	59.07	98.45	2.27	3.79	31.75	52.91	1.60	2.67	41.18	68.63	1.99	3.32
South	U10-L11	769	5.61	9.36	2.01	3.35	10.42	17.36	1.87	3.11	12.86	21.44	4.56	7.59	8.50	14.17	3.03	5.05	7.33	12.21	2.64	4.40	5.56	9.26	2.01	3.36	4.86	8.10	1.67	2.78	6.29	10.48	1.83	3.05
South	U11-L12	770	6.94	11.57	1.58	2.64	8.98	14.97	1.49	2.48	15.60	26.01	3.56	5.93	10.36	17.27	2.37	3.96	8.93	14.88	2.07	3.44	7.02	11.69	1.60	2.66	6.22	10.36	1.35	2.24	7.07	11.79	1.47	2.45
South	U12-L13	771	6.37	10.62	1.56	2.59	8.34	13.90	1.48	2.47	14.32	23.86	3.48	5.79	9.51	15.85	2.32	3.87	8.19	13.66	2.03	3.38	6.44	10.73	1.59	2.65	5.81	9.68	1.39	2.31	6.48	10.81	1.47	2.45
South	U13-L14	772	4.62	7.69	1.39	2.32	6.14	10.23	1.24	2.06	10.38	17.29	3.08	5.13	6.89	11.48	2.06	3.44	5.94	9.90	1.81	3.01	4.66	7.77	1.44	2.41	4.19	6.99	1.16	1.94	4.69	7.82	1.32	2.20
South	U14-L15	773	3.06	5.10	1.93	3.22	5.53	9.22	1.45	2.42	6.77	11.29	4.22	7.04	4.52	7.53	2.84	4.74	3.94	6.57	2.51	4.18	3.38	5.63	2.08	3.47	3.11	5.19	1.57	2.62	3.55	5.92	1.81	3.01
South	U16-L15	774	2.61	4.36	2.15	3.58	5.98	9.97	2.01	3.35	5.96	9.94	4.83	8.05	3.95	6.58	3.21	5.35	3.41	5.69	2.79	4.66	2.62	4.36	2.32	3.87	2.25	3.74	1.92	3.19	2.73	4.55	2.36	3.94
South	U17-L16	775	3.40	5.66	1.54	2.56	7.83	13.04	1.49	2.49	7.79	12.98	3.48	5.79	5.15	8.58	2.31	3.85	4.44	7.41	2.00	3.34	3.36	5.61	1.61	2.68	2.94	4.89	1.35	2.26	4.56	7.59	1.53	2.56
South	U18-L17	776	4.90	8.16	1.56	2.59	9.96	16.60	1.46	2.44	11.19	18.65	3.55	5.91	7.40	12.34	2.35	3.92	6.39	10.65	2.04	3.39	4.87	8.12	1.60	2.67	4.28	7.14	1.37	2.29	5.89	9.82	1.47	2.44
South	U19-L18	777	5.57	9.29	1.76	2.93	7.95	13.26	1.67	2.78	12.60	21.00	4.00	6.67	8.36	13.93	2.65	4.42	7.21	12.01	2.30	3.83	5.60	9.34	1.80	3.01	4.96	8.27	1.49	2.48	5.77	9.61	1.64	2.74
South	U20-L19	778	5.88	9.80	2.84	4.74	8.08	13.47	2.78	4.63	13.22	22.03	6.47	10.79	8.78	14.63	4.29	7.15	7.57	12.61	3.72	6.19	5.95	9.91	2.92	4.87	5.40	8.99	2.43	4.05	6.00	9.99	2.67	4.45
South	U20-L21	779	47.43	79.05	2.69	4.48	109.78	182.96	2.60	4.33	97.01	161.68	5.50	9.16	67.08	111.81	3.78	6.31	57.93	96.56	3.29	5.48	58.40	97.33	3.18	5.30	37.37	62.29	2.42	4.03	49.36	82.27	2.97	4.95
South	U21-L22	780	45.45	75.75	1.68	2.80	83.60	139.34	1.49	2.48	91.16	151.93	3.43	5.72	63.18	105.31	2.38	3.96	54.96	91.60	2.06	3.43	47.26	78.76	1.75	2.91	28.95	48.25	1.44	2.40	36.11	60.18	1.65	2.75

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																											
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	U22-L23	781	48.40	80.67	1.56	2.59	81.26	135.43	1.50	2.51	106.51	177.52	3.43	5.71	71.35	118.92	2.30	3.84	62.64	104.39	2.02	3.37	51.79	86.31	1.65	2.74	32.87	54.78	1.39	2.32	44.00	73.33	1.62	2.70
South	U23-L24	782	32.69	54.48	1.39	2.32	60.23	100.38	1.47	2.45	70.53	117.56	2.99	4.99	47.57	79.28	2.03	3.38	42.07	70.12	1.77	2.96	37.99	63.31	1.55	2.58	33.32	55.53	1.35	2.24	40.06	66.76	1.56	2.59
South	U24-L25	783	8.19	13.65	1.73	2.89	13.44	22.41	2.11	3.51	15.16	25.27	3.59	5.98	10.73	17.89	2.46	4.10	10.10	16.83	2.17	3.61	10.44	17.40	2.11	3.52	12.20	20.34	1.68	2.81	15.51	25.85	2.14	3.57
South	U26-L25	784	3.86	6.44	3.03	5.05	7.60	12.67	5.13	8.56	7.33	12.22	6.22	10.36	5.16	8.60	4.24	7.07	4.75	7.91	3.80	6.34	5.65	9.42	4.40	7.33	4.27	7.12	3.12	5.20	6.78	11.30	4.76	7.94
South	U27-L26	785	20.48	34.13	1.26	2.10	37.07	61.78	1.52	2.53	40.56	67.60	2.72	4.53	28.58	47.63	1.83	3.05	26.08	43.47	1.61	2.69	23.16	38.60	1.53	2.56	19.60	32.67	1.27	2.11	23.99	39.99	1.56	2.59
South	U28-L27	786	26.06	43.44	1.22	2.03	54.57	90.95	1.33	2.22	57.81	96.34	2.69	4.49	38.58	64.30	1.80	3.00	33.65	56.08	1.57	2.62	28.87	48.11	1.38	2.30	21.72	36.20	1.18	1.96	29.52	49.20	1.39	2.31
South	U29-L28	787	29.77	49.62	1.52	2.53	58.96	98.27	1.52	2.53	67.48	112.47	3.42	5.70	44.72	74.53	2.27	3.79	38.73	64.55	1.98	3.29	31.35	52.24	1.63	2.71	22.12	36.86	1.36	2.27	29.74	49.57	1.61	2.68
South	U30-L29	788	27.69	46.15	1.69	2.81	50.13	83.56	1.60	2.66	59.07	98.45	3.59	5.98	39.99	66.65	2.43	4.06	35.49	59.16	2.17	3.61	29.53	49.21	1.83	3.05	20.34	33.91	1.49	2.48	24.76	41.27	1.74	2.90
South	U30-L31	789	6.99	11.64	1.68	2.81	10.45	17.42	1.56	2.61	15.70	26.16	3.81	6.34	10.44	17.40	2.53	4.22	9.08	15.13	2.21	3.68	7.26	12.10	1.69	2.81	6.38	10.63	1.40	2.33	7.26	12.10	1.53	2.55
South	U31-L32	790	10.77	17.95	1.79	2.98	15.57	25.95	1.67	2.79	24.13	40.22	4.03	6.71	16.07	26.79	2.68	4.47	13.95	23.26	2.34	3.89	11.15	18.58	1.80	3.01	9.75	16.26	1.52	2.53	11.12	18.54	1.66	2.76
South	U32-L33	791	12.45	20.75	1.79	2.98	15.14	25.24	1.68	2.80	27.86	46.44	3.99	6.65	18.61	31.02	2.67	4.44	16.00	26.67	2.32	3.86	12.47	20.78	1.82	3.03	10.74	17.90	1.58	2.63	12.00	20.01	1.69	2.82
South	U33-L34	792	9.46	15.76	1.70	2.83	11.24	18.73	1.62	2.70	21.21	35.35	3.75	6.25	14.16	23.60	2.52	4.19	12.18	20.30	2.20	3.66	9.49	15.81	1.76	2.94	8.04	13.40	1.47	2.45	9.07	15.12	1.66	2.77
South	U34-L35	793	3.26	5.43	2.30	3.83	6.77	11.29	2.37	3.95	7.20	12.00	5.00	8.33	4.81	8.02	3.37	5.62	4.20	6.99	2.98	4.96	3.63	6.05	2.48	4.13	3.57	5.95	2.06	3.44	4.10	6.83	2.54	4.24
South	U36-L35	794	5.32	8.87	1.41	2.36	7.76	12.93	1.45	2.42	11.92	19.87	3.17	5.29	7.93	13.22	2.11	3.52	6.92	11.53	1.84	3.06	5.60	9.33	1.53	2.55	4.85	8.08	1.31	2.18	5.50	9.17	1.57	2.62
South	U37-L36	795	8.90	14.84	1.53	2.55	12.89	21.49	1.48	2.47	20.10	33.50	3.46	5.76	13.35	22.24	2.30	3.83	11.60	19.33	1.99	3.32	9.25	15.42	1.60	2.67	7.97	13.29	1.35	2.25	9.08	15.13	1.53	2.55
South	U38-L37	796	10.97	18.29	1.70	2.84	15.05	25.09	1.58	2.63	24.73	41.22	3.88	6.47	16.44	27.40	2.57	4.28	14.27	23.79	2.23	3.71	11.30	18.83	1.76	2.93	9.79	16.31	1.49	2.48	11.08	18.46	1.60	2.67
South	U39-L38	797	9.73	16.21	1.72	2.86	12.62	21.04	1.62	2.70	21.82	36.37	3.91	6.52	14.57	24.29	2.59	4.32	12.53	20.89	2.25	3.74	9.75	16.25	1.76	2.93	8.52	14.20	1.45	2.42	9.49	15.82	1.60	2.67
South	U40-L39	798	5.64	9.40	1.82	3.04	7.23	12.05	1.74	2.91	12.64	21.07	4.14	6.90	8.45	14.08	2.74	4.57	7.26	12.10	2.38	3.97	5.66	9.43	1.88	3.13	4.95	8.25	1.56	2.60	5.51	9.18	1.72	2.87
South	U40-L41	799	31.75	52.92	1.94	3.23	61.54	102.57	1.63	2.72	63.97	106.61	3.88	6.47	44.27	73.79	2.70	4.50	38.50	64.17	2.34	3.90	32.09	53.49	2.01	3.34	20.52	34.20	1.63	2.72	24.64	41.07	1.82	3.03
South	U41-L42	800	38.95	64.92	1.84	3.07	81.12	135.20	1.64	2.74	91.75	152.91	4.14	6.90	60.10	100.17	2.76	4.60	51.45	85.74	2.41	4.01	38.46	64.10	1.88	3.13	25.68	42.80	1.56	2.60	32.74	54.56	1.78	2.96
South	U42-L43	801	43.65	72.75	1.52	2.54	88.36	147.27	1.46	2.44	93.86	156.43	3.34	5.57	63.50	105.83	2.25	3.75	55.34	92.23	1.97	3.28	47.80	79.67	1.61	2.69	33.27	55.46	1.36	2.27	40.81	68.02	1.58	2.63
South	U43-L44	802	34.11	56.84	1.37	2.28	62.59	104.31	1.39	2.32	72.50	120.83	2.93	4.89	49.21	82.01	1.99	3.31	42.91	71.52	1.73	2.89	38.43	64.05	1.51	2.52	27.44	45.74	1.30	2.17	33.21	55.36	1.49	2.48
South	U44-L45	803	3.77	6.28	1.66	2.77	7.04	11.74	2.02	3.37	7.65	12.75	3.43	5.72	5.23	8.72	2.35	3.92	4.71	7.84	2.09	3.48	5.40	8.99	2.06	3.43	5.37	8.95	1.70	2.84	7.82	13.04	2.02	3.36
South	U46-L45	804	4.56	7.60	1.50	2.50	8.57	14.28	1.97	3.29	8.60	14.33	3.23	5.38	6.02	10.04	2.17	3.62	5.63	9.39	1.92	3.19	7.01	11.68	1.88	3.13	5.87	9.78	1.51	2.51	7.35	12.26	1.95	3.25
South	U47-L46	805	34.04	56.73	1.34	2.23	60.21	100.35	1.39	2.32	74.80	124.66	2.95	4.92	50.01	83.35	1.97	3.29	43.87	73.11	1.73	2.88	38.61	64.35	1.52	2.54	28.73	47.89	1.30	2.17	39.66	66.10	1.54	2.56
South	U48-L47	806	47.42	79.03	1.56	2.60	101.75	169.58	1.49	2.49	106.41	177.34	3.49	5.81	70.66	117.77	2.32	3.87	61.51	102.52	2.02	3.37	52.17	86.95	1.69	2.82	37.79	62.99	1.42	2.37	51.12	85.20	1.67	2.79
South	U49-L48	807	43.94	73.23	2.00	3.33	77.24	128.74	1.77	2.95	103.31	172.18	4.54	7.56	67.67	112.78	2.99	4.99	57.83	96.38	2.58	4.30	43.96	73.27	2.08	3.46	29.91	49.84	1.73	2.88	38.41	64.01	1.98	3.30
South	U50-L49	808	34.39	57.32	1.85	3.09	57.27	95.45	1.57	2.62	69.96	116.60	3.98	6.64	47.96	79.93	2.66	4.44	41.95	69.92	2.34	3.89	38.26	63.76	1.95	3.26	21.92	36.54	1.72	2.87	27.76	46.27	1.82	3.03
South	U50-L51	809	7.08	11.81	1.95	3.24	8.04	13.41	1.55	2.58	16.18	26.97	4.47	7.46	10.62	17.69	2.94	4.90	9.17	15.28	2.54	4.24	7.19	11.98	1.95	3.24	6.15	10.25	1.56	2.60	6.90	11.50	1.72	2.87
South	U51-L52	810	10.82	18.03	2.00	3.33	12.04	20.07	1.58	2.64	24.75	41.25	4.59	7.65	16.23	27.05	3.02	5.04	14.01	23.35	2.61	4.35	10.91	18.18	2.01	3.34	9.38	15.63	1.70	2.83	10.48	17.47	1.82	3.03
South	U52-L53	811	12.88	21.47	1.93	3.21	15.25	25.41	1.54	2.56	29.60	49.33	4.42	7.37	19.40	32.33	2.91	4.86	16.70	27.84	2.51	4.19	12.81	21.34	1.94	3.24	11.41	19.02	1.64	2.74	12.57	20.95	1.80	3.00
South	U53-L54	812	10.39	17.31	1.84	3.06	12.33	20.55	1.52	2.53	23.89	39.82	4.20	7.00	15.65	26.09	2.77	4.62	13.48	22.47	2.39	3.99	10.33	17.22	1.87	3.11	9.05	15.09	1.56	2.61	10.11	16.85	1.70	2.83
South	U54-L55	813	7.56	12.60	1.77	2.96	8.98	14.97	1.50	2.50	17.41	29.01	4.03	6.72	11.40	19.01	2.66	4.44	9.82	16.36	2.31	3.84	7.52	12.54	1.83	3.05	6.52	10.86	1.56	2.61	7.35	12.24	1.68	2.80
South	U55-L56	814	4.53	7.55	3.95	6.58	7.67	12.79	3.89	6.48	10.26	17.10	8.93	14.88	6.78	11.31	5.90	9.84	5.88	9.80	5.13	8.54	4.76	7.93	4.17	6.95	4.32	7.20	3.67	6.12	5.48	9.14	4.25	7.09
South	U57-L56	815	6.31	10.51	1.92	3.20	8.38	13.96	1.67	2.78	14.13	23.55	4.36	7.26	9.42	15.70	2.89	4.81	8.17	13.62	2.50	4.17	6.87	11.45	2.00	3.34	5.94	9.90	1.65	2.74	6.86	11.43	2.08	3.47
South	U58-L57	816	12.05	20.09	1.77	2.96	13.71	22.85	1.50	2.50	27.59	45.98	4.05	6.75	18.09	30.15	2.67	4.46	15.61	26.02	2.31	3.85	12.23	20.38	1.81	3.02	10.13	16.88	1.53	2.55	11.40	19.00	1.70	2.84
South	U59-L58	817	15.08	25.13	1.95	3.24	16.69	27.82	1.58	2.63	34.59	57.66	4.44	7.40	22.67	37.79	2.93	4.89	19.56	32.61	2.53	4.22	15.21	25.36	1.98	3.30	12.71	21.19	1.64	2.74	14.29	23.82	1.87	3.11
South	U60-L59	818	13.14	21.90	1.93	3.22	15.82	26.37	1.52	2.54	30.23	50.38	4.43	7.38	19.81	33.02	2.92	4.87	17.06	28.43	2.52	4.21	13.07	21.79	1.95	3.25	11.32	18.87	1.64	2.74	12.63	21.05	1.77	2.96
South	U61-L60	819	7.91	13.18	1.91	3.19	9.41	15.68	1.52	2.53	18.19	30.32	4.36	7.27	11.92	19.87	2.88	4.80	10.27	17.12	2.49	4.15	7.87	13.12	1.94	3.24	6.92	11.53	1.59	2.64	7.69	12.81	1.74	2.91
South	U62-L61	820	7.22	12.03	2.63	4.38	8.39	13.98	2.21	3.68	16.60	27.67	5.95	9.92	10.88	18.13	3.93	6.56	9.37	15.62	3.40	5.67	7.18	11.97	2.70	4.51	6.32	10.54	2.23	3.71	7.02	11.69	2.46	4.10
South	U62-L63	821	86.74	144.57	3.31	5.51	173.71	289.51	3.24	5.39	189.76	316.27	7.17	11.96	125.38	208.96	4.73	7.89	109.09	181.82	4.14	6.90	108.49	180.82	4.03	6.72	91.74	152.90	3.05	5.09	154.13	256.88	4.33	7.21
South	U63-L64	822	37.55	62.59	1.80	2.99	71.94	119.89	1.55	2.58	84.20	140.34	3.95	6.59	55.24	92.07	2.61	4.35	48.07	80.12	2.28	3.79	39.54	65.91	1.90	3.16	26.48	44.13	1.53	2.55	32.86	54.77	1.75	2.91
South	U64-L65	823	41.24	68.74	1.59	2.66	82.97	138.29	1.43	2.38	96.08	160.13	3.66	6.10	63.21	105.35	2.42	4.04	54.10	90.17	2.08	3.46	40.12	66.86	1.65	2.74	25.64	42.73	1.35	2.25	32.49	54.16	1.55	2.59
South	U65-L66	824	39.03	65.05	1.48	2.46	74.67	124.45	1.45	2.41	88.36	147.27	3.35	5.59	58.84	98.06	2.22	3.69	50.21	83.68	1.91	3.19	42.56	70.94	1.59	2.66	27.12	45.20	1.32	2.20	34.00	56.66	1.54	2.56
South	U66-L67	825	25.59	42.65	1.31	2.19	46.86	78.10	1.40	2.34	54.73	91.22	2.94	4.90	36.94	61.57	1.94	3.23	32.50	54.16	1.68	2.80	29.29	48.81	1.49	2.48	24.52	40.87	1.26	2.10	28.52	47.54	1.47	2.45
South	U67-L68	826	3.33	5.56	2.24	3.73	6.48	10.80	3.13	5.21	6.80	11.33	4.88	8.13	4.62	7.71	3.24	5.39	4.13	6.88	2.82	4.71	4.81	8.01	2.83	4.71	4.37	7.29	2.16	3.60	7.00	11.67	2.76	4.60
South	U69-L68	827	3.53	5.88	1.64	2.74	7.04	11.74	2.21	3.68	7.24	12.07	3.54	5.90	4.90	8.17	2.38	3.96	4.33	7.22	2.07	3.44	5.56	9.27	1.99	3.32	3.60	6.01	1.65	2.75	5.16	8.59	2.10	3.50
South	U70-L69	828	26.91	44.85	1.26	2.09	44.63	74.39	1.37	2.28	59.09	98.49	2.78	4.63	39.00	65.01	1.85	3.08	33.69	56.14	1.60	2.66	28.86	48.09	1.39	2.32	21.20	35.33	1.20	2.00	28.27	47.12	1.42	2.36
South	U71-L70	829	33.02	55.04	1.44	2.41	64.66	107.77	1.44	2.40	73.56	122.60	3.25	5.42	48.81	81.36	2.16	3.59	41.92	69.87	1.86	3.10	35.11	58.52	1.54	2.56	24.59	40.99	1.29	2.15	32.07	53.46	1.53	2.55
South	U72-L71	830	37.98	63.30	1.81	3.01	76.01	126.68	1.66	2.77	86.37	143.94	4.11	6.86	57.21	95.35	2.72	4.53	49.29	82.15	2.35	3.92	39.05	65.08	1.86	3.10	26.77	44.62	1.54	2.57	33.81	56.34	1.76	2.93
South	U73-L72	831	29.11	48.51	1.72	2.86	53.26	88.76	1.49	2.49	64.16	106.94	3.72	6.20	42.02	70.03	2.47	4.11	36.41	60.69	2.15	3.58	29.96	49.93	1.78	2.96	21.78	36.29	1.46	2.44	25.37	42.29	1.62	2.70
South	U74-L73	832	63.47	105.79	3.41	5.68	131.23	218.72	3.32	5.53	137.06	228.44	7.28	12.14	89.48	149.14	4.83	8.05	77.91	129.85	4.22	7.03	79.76	132.94	4.13	6.89	44.42	74.04	3.04	5.07	61.80	103.00	3.84	6.39
South	U74-L75	833	7.02	11.71	2.65	4.41	8.52	14.20	1.74	2.91	16.18	26.97	6.19	10.32	10.59	17.65	4.08	6.80	9.10	15.17	3.48	5.80	6.93	11.54	2.56	4.27	6.01	10.01	1.84	3.07	6.58	10.97	2.01	3.36
South	U75-L76	834	7.73	12.88	2.17	3.62	8.98	14.97	1.45	2.42	17.85	29.76	5.07	8.45	11.68	19.47	3.34	5.56	10.04	16.73	2.85	4.76	7.58	12.63	2.10	3.51	6.54	10.90	1.55	2.59	7.15	11.92	1.68	2.79
South	U76-L77	835	9.43	15.72	2.27	3.78	10.15	16.91	1.51	2.52	21.92	36.53	5.30	8.83	14.35	23.92	3.49	5.81	12.32	20.53	2.98	4.97	9.13	15.22	2.20	3.67	7.87	13.12	1.66	2.77	8.40	13.99	1.77	2.95
South	U77-L78	836	8.93	14.88	2.22	3.70	9.28	15.46	1.51	2.51	20.81	34.69	5.19	8.65	13.63	22.72	3.41	5.69	11.68	19.47	2.92	4.87	8.60	14.33	2.17	3.61	7.37	12.29	1.61	2.68	7.86	13.09	1.76	2.94
South	U78-L79	837	7.86	13.10	2.42	4.03	8.14	13.56	1.70	2.84	18.33	30.54	5.64	9.40	12.00	20.00	3.71	6.19	10.28	17.14	3.18	5.29	7.57	12.62	2.36	3.94	6.49	10.81	1.80	3.01	6.91	11.51	1.95	3.25
South	U79-L80	838	5.20	8.67	2.02	3.37	5.37	8.94	1.49	2.48	12.13	20.22	4.71	7.85	7.94	13.24	3.11	5.18	6.81	11.34	2.66	4.43	5.01	8.35	2.00	3.33	4.29	7.15	1.52	2.53	4.56	7.61	1.67	2.78
South	U80-L81	839	3.21	5.35	2.83	4.71	3.33	5.55	2.28	3.80	7.44	12.40	6.55	10.92	4.89	8.15	4.33	7.21	4.20	7.00	3.70	6.17	3.12	5.20	2.81	4.69	2.67	4.44	2.24	3.73	2.84	4.73	2.47	4.12
South	U81-L82	840	2.47	4.12	5.70	9.51	2.71	4.52	5.75	9.59	5.71	9.52	13.16	21.94	3.75	6.26	8.70	14.51	3.23	5.39	7.45	12.42	2.47	4.12	5.74	9.57	2.03	3.38	5.25	8.74	2.11	3.51	5.68	9.46
South	U83-L82	841	9.18	15.30	2.37	3.94	15.17	25.29	1.56	2.60	21.05	35.08	5.46	9.09	13.91	23.18	3.59	5.99	11.95	19.92	3.10	5.17	9.34	15.57	2.37	3.94	8.69	14.48	1.64	2.74	9.63	16.04	2.03	3.39
South	U84-L83	842	18.46	30.77	3.15	5.24	22.39	37.32	2.11	3.52	42.45	70.74	7.30	12.16	27.78	46.30	4.80	8.00	23.90	39.84	4.13	6.89	18.30	30.50	3.11	5.18	15.15	25.24	2.19	3.65	17.31	28.85	2.63	4.38
South	U85-L84	843	17.35	28.92	2.17	3.61	20.80	34.66	1.50	2.49	39.94	66.57	5.04	8.39	26.15	43.58	3.31	5.52	22.49	37.48	2.85	4.75	17.14	28.57	2.13	3.55	14.50	24.16	1.60	2.66	16.02	26.69	1.74	2.89
South	U86-L85	844	15.31	25.52	2.38	3.97	17.75	29.59	1.64	2.74	35.45	59.08	5.54	9.23	23.22	38.70	3.64	6.07	19.95	33.26	3.13	5.22	14.96	24.93	2.32	3.87	12.59	20.99	1.74	2.90	13.79	22.99	1.89	3.15
South	U87-L86	845	9.60	16.00	2.44	4.07	10.66	17.77	1.64	2.73	22.38	37.30	5.68	9.46	14.64	24.40	3.73	6.22	12.55	20.92	3.21	5.36	9.24	15.40	2.38	3.96	7.89	13.15	1.75	2.92	8.42	14.04	1.90	3.17

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																											
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	U88-L87	846	5.14	8.56	2.29	3.81	5.53	9.22	1.54	2.57	11.97	19.96	5.32	8.86	7.83	13.05	3.50	5.83	6.72	11.19	3.01	5.01	4.94	8.24	2.23	3.71	4.22	7.03	1.66	2.77	4.50	7.51	1.78	2.97
South	U89-L88	847	4.00	6.67	2.70	4.50	4.27	7.11	1.89	3.16	9.34	15.56	6.25	10.41	6.11	10.18	4.12	6.86	5.24	8.73	3.54	5.90	3.85	6.42	2.64	4.41	3.29	5.48	1.96	3.27	3.51	5.85	2.15	3.58
South	U90-L89	848	2.94	4.90	4.78	7.96	3.14	5.23	3.52	5.87	6.85	11.42	11.03	18.38	4.48	7.47	7.27	12.11	3.84	6.41	6.25	10.41	2.83	4.71	4.71	7.85	2.42	4.03	3.49	5.81	2.58	4.30	3.83	6.39
South	U90-L91	849	2.09	3.49	8.87	14.78	1.93	3.22	19.12	31.87	4.86	8.10	18.94	31.56	3.18	5.30	12.49	20.82	2.73	4.56	10.97	18.28	2.05	3.42	11.32	18.87	1.71	2.85	12.92	21.54	1.86	3.11	16.54	27.56
South	U91-L92	850	6.71	11.18	4.41	7.35	7.27	12.12	9.91	16.51	15.51	25.85	9.55	15.91	10.21	17.01	6.30	10.50	8.77	14.62	5.50	9.17	6.77	11.28	5.35	8.92	5.57	9.28	5.98	9.97	6.15	10.25	7.48	12.46
South	U92-L93	851	40.96	68.27	2.66	4.43	96.97	161.62	3.02	5.04	90.57	150.96	5.80	9.67	59.69	99.48	3.83	6.38	51.79	86.31	3.34	5.56	49.08	81.81	3.19	5.31	35.98	59.97	2.65	4.42	41.39	68.98	3.15	5.25
South	U93-L94	852	46.90	78.17	1.82	3.04	87.72	146.19	1.55	2.59	103.25	172.09	4.00	6.66	67.68	112.79	2.64	4.39	59.11	98.52	2.30	3.83	55.95	93.25	2.15	3.59	34.00	56.67	1.62	2.69	36.66	61.10	1.85	3.08
South	U94-L95	853	58.30	97.17	1.96	3.27	96.17	160.28	1.46	2.43	132.58	220.97	4.48	7.46	88.03	146.72	2.96	4.93	75.35	125.58	2.55	4.25	57.90	96.49	1.96	3.27	31.59	52.65	1.48	2.46	39.55	65.91	1.71	2.86
South	U95-L96	854	58.01	96.68	2.05	3.41	98.61	164.35	1.60	2.67	133.47	222.46	4.75	7.92	88.28	147.14	3.14	5.24	75.49	125.82	2.68	4.47	56.85	94.75	2.04	3.40	32.05	53.42	1.59	2.66	40.02	66.70	1.77	2.95
South	U96-L97	855	49.11	81.85	1.83	3.05	86.61	144.36	1.54	2.57	112.39	187.32	4.22	7.03	74.70	124.50	2.79	4.65	63.69	106.15	2.39	3.98	49.13	81.89	1.86	3.09	30.79	51.32	1.50	2.50	36.02	60.03	1.66	2.77
South	U97-L98	856	30.74	51.24	1.51	2.52	49.74	82.90	1.40	2.33	59.56	99.27	3.46	5.77	41.95	69.92	2.29	3.82	37.22	62.04	1.97	3.28	33.57	55.95	1.57	2.61	26.08	43.47	1.29	2.16	32.40	54.00	1.49	2.49
South	U98-L99	857	10.27	17.11	1.43	2.39	19.60	32.67	1.55	2.59	20.82	34.69	3.26	5.43	14.17	23.62	2.16	3.61	12.72	21.20	1.86	3.10	14.56	24.27	1.54	2.56	12.34	20.57	1.28	2.14	18.22	30.36	1.59	2.64
South	U99-L100	858	3.86	6.43	2.12	3.53	8.56	14.27	3.10	5.16	8.32	13.87	4.73	7.89	5.58	9.29	3.16	5.27	4.91	8.18	2.72	4.54	4.87	8.11	2.39	3.98	5.28	8.79	2.05	3.41	7.02	11.70	2.92	4.86
South	U101-L100	859	3.00	5.00	2.63	4.38	6.89	11.48	4.57	7.61	6.55	10.92	5.83	9.71	4.41	7.36	3.88	6.47	3.81	6.35	3.39	5.65	3.71	6.19	2.97	4.95	4.09	6.81	2.72	4.54	5.04	8.41	3.87	6.45
South	U102-L101	860	7.84	13.06	1.38	2.30	15.95	26.58	1.59	2.65	16.28	27.13	3.11	5.19	11.19	18.64	2.06	3.44	9.70	16.17	1.79	2.98	11.34	18.90	1.48	2.46	11.87	19.78	1.27	2.11	17.50	29.17	1.60	2.67
South	U103-L102	861	26.64	44.40	1.58	2.64	42.84	71.40	1.52	2.53	51.84	86.40	3.61	6.02	35.51	59.19	2.39	3.98	32.82	54.70	2.07	3.44	28.71	47.85	1.64	2.74	28.46	47.44	1.37	2.28	37.70	62.84	1.60	2.66
South	U104-L103	862	55.17	91.95	1.81	3.02	104.77	174.62	1.55	2.58	126.12	210.21	4.16	6.93	83.68	139.46	2.74	4.57	72.21	120.36	2.37	3.95	55.90	93.16	1.83	3.06	38.27	63.79	1.50	2.50	44.13	73.55	1.65	2.76
South	U105-L104	863	75.59	125.98	1.96	3.26	129.27	215.45	1.55	2.58	171.77	286.29	4.53	7.55	114.44	190.73	2.98	4.96	98.77	164.62	2.57	4.28	74.92	124.87	1.95	3.25	39.77	66.28	1.53	2.55	52.11	86.85	1.70	2.84
South	U106-L105	864	74.57	124.28	2.02	3.37	123.16	205.27	1.50	2.51	164.41	274.02	4.53	7.55	108.06	180.10	3.02	5.03	93.44	155.74	2.60	4.34	72.60	121.00	2.02	3.37	36.82	61.37	1.51	2.52	47.92	79.86	1.77	2.96
South	U107-L106	865	61.93	103.22	1.90	3.17	129.34	215.57	1.59	2.65	134.62	224.36	4.12	6.87	87.69	146.14	2.74	4.57	76.28	127.13	2.38	3.96	72.88	121.47	2.19	3.65	38.35	63.91	1.71	2.85	47.77	79.62	1.93	3.22
South	U108-L107	866	34.60	57.66	1.75	2.91	75.35	125.58	1.99	3.32	75.25	125.41	3.75	6.25	48.95	81.58	2.49	4.14	42.60	70.99	2.17	3.61	41.12	68.54	2.07	3.44	34.09	56.81	1.74	2.90	38.17	63.61	2.05	3.42
South	U109-L108	867	3.55	5.92	5.63	9.38	3.64	6.07	11.96	19.94	8.19	13.65	11.86	19.77	5.40	9.00	7.85	13.09	4.64	7.73	6.89	11.48	3.52	5.87	7.14	11.89	2.77	4.62	8.01	13.36	3.07	5.12	10.25	17.08
South	U110-L109	868	2.29	3.82	8.69	14.48	2.05	3.42	18.06	30.11	5.30	8.83	18.35	30.59	3.47	5.79	12.15	20.25	2.98	4.97	10.65	17.75	2.24	3.73	10.96	18.27	1.79	2.98	12.03	20.05	1.97	3.28	15.31	25.51
South	U110-L111	869	3.64	6.07	3.47	5.78	3.88	6.46	2.41	4.01	8.48	14.13	8.01	13.35	5.55	9.25	5.27	8.78	4.76	7.93	4.54	7.56	3.50	5.83	3.40	5.67	2.99	4.98	2.46	4.10	3.19	5.31	2.66	4.44
South	U111-L112	870	4.64	7.73	2.10	3.50	4.93	8.22	1.40	2.34	10.80	18.00	4.87	8.11	7.07	11.78	3.20	5.33	6.06	10.10	2.75	4.58	4.46	7.43	2.05	3.41	3.81	6.35	1.52	2.53	4.06	6.77	1.62	2.70
South	U112-L113	871	5.87	9.78	1.38	2.30	6.30	10.50	**0.92**	**1.53**	13.67	22.78	3.21	5.36	8.95	14.91	2.11	3.51	7.67	12.78	1.81	3.02	5.64	9.40	1.34	2.24	4.82	8.03	1.01	1.68	5.14	8.56	**1.06**	**1.76**
South	U113-L114	872	12.24	20.41	1.56	2.60	13.55	22.59	1.06	1.76	28.54	47.56	3.63	6.05	18.67	31.12	2.38	3.96	16.01	26.68	2.05	3.41	11.76	19.60	1.52	2.54	10.04	16.73	1.12	1.86	10.70	17.83	1.21	2.01
South	U114-L115	873	41.81	69.69	1.97	3.29	48.84	81.41	1.34	2.24	98.23	163.71	4.59	7.65	64.26	107.11	3.01	5.01	54.96	91.61	2.59	4.31	39.77	66.28	1.94	3.23	27.62	46.03	1.47	2.45	30.28	50.47	1.62	2.70
South	U115-L116	874	28.36	47.26	1.92	3.20	57.98	96.63	1.23	2.05	65.16	108.60	4.47	7.46	42.96	71.60	2.93	4.89	37.10	61.83	2.53	4.21	28.95	48.26	1.89	3.16	26.35	43.92	1.36	2.26	30.47	50.78	1.47	2.45
South	U116-L117	875	17.06	28.44	3.33	5.55	28.38	47.30	1.88	3.13	39.14	65.24	7.77	12.94	25.86	43.10	5.10	8.50	22.35	37.25	4.38	7.30	17.46	29.11	3.30	5.49	17.72	29.54	2.19	3.65	20.51	34.18	2.69	4.49
South	U117-L118	876	11.42	19.04	3.18	5.29	18.27	30.45	1.93	3.21	26.22	43.70	7.37	12.29	17.31	28.85	4.84	8.07	14.97	24.95	4.16	6.94	11.63	19.38	3.16	5.27	12.87	21.45	2.27	3.79	15.33	25.54	2.86	4.77
South	U119-L118	877	3.05	5.09	10.77	17.96	2.33	3.88	17.87	29.78	7.07	11.79	24.73	41.21	4.65	7.74	16.35	27.25	3.99	6.66	14.08	23.47	3.06	5.10	10.82	18.03	2.60	4.33	13.09	21.82	2.69	4.48	13.18	21.97
South	U120-L119	878	3.68	6.14	5.47	9.11	3.68	6.13	5.03	8.39	8.50	14.16	12.58	20.97	5.56	9.27	8.31	13.85	4.81	8.01	7.15	11.91	3.67	6.12	5.44	9.07	3.21	5.35	4.92	8.19	3.48	5.80	5.36	8.93
South	U121-L120	879	3.80	6.33	2.10	3.50	3.52	5.87	1.51	2.51	8.85	14.76	4.85	8.08	5.79	9.65	3.19	5.32	4.96	8.27	2.75	4.58	3.65	6.08	2.07	3.45	3.10	5.17	1.85	3.09	3.31	5.51	1.81	3.02
South	U122-L121	880	7.07	11.78	2.06	3.43	6.57	10.95	1.34	2.23	16.48	27.46	4.77	7.95	10.78	17.96	3.13	5.22	9.24	15.40	2.70	4.50	6.80	11.33	2.02	3.36	5.77	9.62	1.55	2.58	6.16	10.26	1.69	2.82
South	U123-L122	881	10.17	16.94	2.18	3.63	9.47	15.78	1.38	2.31	23.70	39.51	5.05	8.41	15.50	25.83	3.32	5.53	13.29	22.15	2.86	4.76	9.78	16.30	2.14	3.57	8.31	13.85	1.61	2.69	8.86	14.77	1.76	2.94
South	U124-L123	882	13.57	22.62	2.68	4.47	12.67	21.11	1.69	2.82	31.61	52.69	6.20	10.34	20.69	34.48	4.08	6.80	17.74	29.57	3.52	5.86	13.05	21.76	2.64	4.39	11.10	18.50	2.04	3.40	11.84	19.73	2.13	3.55
South	U125-L124	883	14.80	24.67	2.41	4.02	13.93	23.22	1.55	2.58	34.46	57.44	5.56	9.27	22.56	37.60	3.66	6.10	19.35	32.24	3.16	5.26	14.24	23.73	2.38	3.97	12.16	20.27	1.77	2.95	12.97	21.62	1.91	3.19
South	U126-L125	884	16.51	27.52	2.58	4.30	15.65	26.08	1.66	2.76	38.46	64.09	5.94	9.89	25.18	41.96	3.91	6.51	21.59	35.98	3.37	5.62	15.88	26.47	2.56	4.26	13.56	22.61	1.84	3.06	14.46	24.11	2.03	3.39
North	U0-L1	885	44.12	73.53	1.62	2.71	52.31	87.19	1.50	2.51	91.19	151.99	3.61	6.02	62.69	104.49	2.42	4.03	55.13	91.89	2.11	3.52	52.13	86.88	1.68	2.80	47.12	78.54	1.43	2.38	59.15	98.59	1.63	2.72
North	U1-L2	886	49.52	82.53	1.58	2.64	64.10	106.84	1.55	2.59	101.98	169.97	3.48	5.79	70.04	116.73	2.34	3.89	61.87	103.11	2.04	3.41	59.30	98.83	1.68	2.81	50.71	84.52	1.46	2.43	62.46	104.11	1.67	2.78
North	U2-L3	887	26.37	43.95	1.34	2.24	49.16	81.94	1.45	2.42	54.50	90.84	2.88	4.80	37.19	61.98	1.95	3.25	33.06	55.10	1.71	2.85	35.22	58.70	1.50	2.50	34.98	58.31	1.33	2.22	39.40	65.67	1.50	2.50
North	U3-L4	888	6.07	10.11	1.89	3.15	13.46	22.44	2.56	4.27	13.00	21.66	3.89	6.49	8.76	14.60	2.67	4.45	7.74	12.90	2.36	3.93	7.72	12.86	2.31	3.85	9.26	15.43	2.01	3.35	11.51	19.18	2.32	3.87
North	U4-L5	889	1.72	2.87	7.56	12.61	2.36	3.93	15.32	25.53	3.80	6.33	14.43	24.06	2.54	4.23	10.14	16.90	2.22	3.71	9.38	15.64	1.97	3.28	11.01	18.35	1.76	2.94	12.16	20.27	2.08	3.47	17.80	29.67
North	U6-L5	890	24.53	40.89	1.48	2.47	34.60	57.66	1.54	2.56	42.88	71.46	3.32	5.53	31.36	52.27	2.21	3.68	30.60	51.00	1.92	3.21	30.35	50.59	1.60	2.67	30.41	50.68	1.37	2.28	38.64	64.40	1.61	2.69
North	U7-L6	891	57.81	96.35	1.64	2.74	90.26	150.43	1.52	2.54	125.10	208.50	3.73	6.21	84.29	140.49	2.47	4.12	74.46	124.11	2.14	3.57	68.32	113.87	1.72	2.87	45.58	75.96	1.44	2.40	57.35	95.59	1.66	2.77
North	U8-L7	892	63.44	105.74	1.93	3.22	96.46	160.76	1.65	2.74	143.31	238.85	4.42	7.37	95.11	158.52	2.93	4.88	82.64	137.73	2.53	4.22	67.63	112.71	1.98	3.29	45.10	75.17	1.64	2.73	49.75	82.92	1.78	2.97
North	U9-L8	893	56.77	94.61	1.96	3.27	109.54	182.57	1.62	2.70	123.14	205.23	4.29	7.16	82.92	138.20	2.88	4.81	73.28	122.13	2.54	4.23	60.62	101.03	2.04	3.40	36.54	60.90	1.59	2.64	44.16	73.59	1.79	2.98
North	U10-L9	894	48.74	81.23	1.89	3.16	94.24	157.06	1.67	2.79	106.27	177.11	4.09	6.82	71.16	118.59	2.75	4.59	62.45	104.08	2.43	4.04	59.35	98.91	2.27	3.78	31.89	53.15	1.60	2.66	41.40	69.00	1.99	3.31
North	U10-L11	895	5.63	9.38	2.00	3.34	10.24	17.07	1.65	2.76	12.89	21.49	4.53	7.55	8.53	14.21	3.02	5.03	7.35	12.24	2.63	4.38	5.57	9.28	2.00	3.34	4.87	8.12	1.66	2.77	6.30	10.50	1.82	3.03
North	U11-L12	896	6.95	11.59	1.58	2.63	8.96	14.93	1.34	2.24	15.63	26.05	3.54	5.90	10.38	17.30	2.36	3.94	8.94	14.91	2.06	3.43	7.03	11.71	1.59	2.65	6.23	10.38	1.34	2.23	7.09	11.81	1.46	2.44
North	U12-L13	897	6.38	10.63	1.55	2.58	8.34	13.91	1.36	2.26	14.34	23.90	3.46	5.77	9.52	15.87	2.31	3.85	8.21	13.68	2.02	3.36	6.45	10.74	1.58	2.63	5.82	9.70	1.38	2.30	6.50	10.83	1.47	2.44
North	U13-L14	898	4.63	7.71	1.38	2.30	6.13	10.21	1.16	1.94	10.40	17.33	3.06	5.10	6.90	11.51	2.05	3.42	5.95	9.92	1.80	2.99	4.67	7.79	1.44	2.39	4.20	7.00	1.16	1.93	4.71	7.85	1.31	2.19
North	U14-L15	899	3.07	5.11	1.93	3.21	5.55	9.24	1.44	2.39	6.79	11.32	4.21	7.02	4.53	7.55	2.83	4.72	3.95	6.59	2.50	4.17	3.39	5.64	2.07	3.46	3.12	5.20	1.57	2.62	3.56	5.93	1.80	3.00
North	U16-L15	900	2.62	4.36	2.15	3.58	5.85	9.75	1.88	3.14	5.97	9.95	4.82	8.04	3.95	6.59	3.21	5.34	3.41	5.69	2.79	4.65	2.62	4.36	2.32	3.87	2.25	3.75	1.91	3.19	2.73	4.55	2.36	3.93
North	U17-L16	901	3.40	5.67	1.53	2.55	7.68	12.80	1.35	2.26	7.80	13.01	3.46	5.77	5.16	8.60	2.30	3.83	4.45	7.42	2.00	3.33	3.37	5.62	1.60	2.67	2.94	4.90	1.35	2.25	4.56	7.61	1.53	2.55
North	U18-L17	902	4.90	8.17	1.55	2.58	9.81	16.35	1.34	2.23	11.21	18.68	3.53	5.89	7.42	12.36	2.34	3.90	6.40	10.67	2.03	3.38	4.88	8.13	1.59	2.66	4.29	7.15	1.37	2.28	5.90	9.83	1.46	2.43
North	U19-L18	903	5.58	9.31	1.75	2.91	7.95	13.25	1.55	2.59	12.62	21.03	3.98	6.64	8.37	13.95	2.64	4.40	7.22	12.03	2.29	3.81	5.61	9.35	1.80	2.99	4.97	8.28	1.48	2.47	5.77	9.62	1.63	2.72
North	U20-L19	904	5.89	9.82	2.83	4.71	8.08	13.47	2.62	4.37	13.23	22.05	6.44	10.74	8.79	14.65	4.27	7.11	7.57	12.62	3.70	6.16	5.95	9.92	2.91	4.84	5.40	9.00	2.41	4.02	6.00	10.00	2.66	4.43
North	U20-L21	905	47.73	79.55	2.68	4.47	76.42	127.36	2.54	4.23	97.47	162.45	5.48	9.14	67.42	112.37	3.78	6.29	58.26	97.10	3.28	5.46	58.82	98.03	3.17	5.29	37.66	62.77	2.41	4.02	49.87	83.12	2.96	4.94
North	U21-L22	906	45.30	75.50	1.68	2.79	66.56	110.94	1.48	2.46	90.72	151.20	3.43	5.71	62.89	104.82	2.37	3.95	54.73	91.21	2.06	3.43	47.14	78.57	1.75	2.91	28.90	48.16	1.43	2.39	36.03	60.04	1.65	2.74
North	U22-L23	907	48.50	80.83	1.55	2.59	67.49	112.48	1.49	2.48	106.77	177.95	3.42	5.71	71.52	119.20	2.30	3.83	62.77	104.61	2.02	3.36	51.81	86.34	1.64	2.74	32.86	54.77	1.39	2.32	44.02	73.37	1.62	2.69
North	U23-L24	908	32.73	54.55	1.39	2.32	45.75	76.24	1.45	2.41	70.59	117.64	2.99	4.98	47.62	79.36	2.02	3.37	42.12	70.19	1.77	2.95	38.07	63.45	1.55	2.58	33.21	55.35	1.34	2.24	40.16	66.94	1.55	2.59
North	U24-L25	909	8.19	13.65	1.73	2.89	12.79	21.32	2.08	3.47	15.16	25.27	3.59	5.98	10.74	17.89	2.46	4.10	10.10	16.83	2.17	3.61	10.44	17.41	2.11	3.52	12.24	20.40	1.69	2.81	15.56	25.94	2.14	3.57
North	U26-L25	910	3.87	6.44	3.03	5.05	7.53	12.55	5.07	8.45	7.34	12.23	6.21	10.35	5.17	8.61	4.24	7.06	4.75	7.92	3.80	6.34	5.66	9.44	4.39	7.32	4.28	7.13	3.12	5.20	6.80	11.33	4.75	7.92

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																											
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	U27-L26	911	20.52	34.19	1.26	2.10	30.63	51.05	1.50	2.49	40.65	67.75	2.71	4.52	28.64	47.74	1.82	3.04	26.13	43.55	1.61	2.69	23.20	38.67	1.53	2.55	19.62	32.71	1.26	2.10	24.08	40.14	1.55	2.59
North	U28-L27	912	26.10	43.49	1.21	2.02	44.51	74.18	1.31	2.19	57.87	96.46	2.69	4.48	38.63	64.38	1.79	2.99	33.68	56.14	1.57	2.62	28.90	48.17	1.38	2.30	21.74	36.24	1.17	1.96	29.54	49.23	1.38	2.31
North	U29-L28	913	29.76	49.59	1.52	2.53	54.77	91.28	1.52	2.53	67.42	112.37	3.42	5.70	44.68	74.47	2.27	3.78	38.71	64.51	1.97	3.29	31.34	52.23	1.62	2.71	22.11	36.85	1.36	2.27	29.74	49.56	1.61	2.68
North	U30-L29	914	27.96	46.60	1.68	2.81	43.22	72.03	1.58	2.63	59.79	99.64	3.59	5.98	40.45	67.41	2.43	4.05	35.86	59.77	2.16	3.61	29.75	49.59	1.83	3.04	20.55	34.24	1.49	2.48	25.05	41.75	1.74	2.90
North	U30-L31	915	7.07	11.79	1.64	2.73	10.15	16.91	1.35	2.24	15.90	26.49	3.71	6.18	10.57	17.62	2.47	4.12	9.19	15.32	2.15	3.58	7.36	12.27	1.64	2.73	6.47	10.78	1.36	2.26	7.36	12.26	1.48	2.47
North	U31-L32	916	10.86	18.11	1.75	2.91	15.47	25.79	1.47	2.45	24.34	40.57	3.93	6.55	16.21	27.02	2.62	4.37	14.08	23.47	2.28	3.80	11.26	18.77	1.76	2.93	9.86	16.44	1.48	2.46	11.26	18.76	1.61	2.69
North	U32-L33	917	12.44	20.73	1.73	2.88	15.75	26.25	1.48	2.47	27.86	46.43	3.86	6.43	18.60	31.00	2.58	4.30	16.01	26.68	2.24	3.74	12.45	20.75	1.76	2.93	10.83	18.05	1.52	2.53	12.13	20.22	1.63	2.71
North	U33-L34	918	9.43	15.71	1.61	2.69	12.04	20.07	1.45	2.42	21.17	35.28	3.58	5.96	14.13	23.55	2.40	4.00	12.16	20.27	2.09	3.49	9.44	15.74	1.67	2.79	8.13	13.55	1.39	2.32	9.23	15.38	1.57	2.62
North	U34-L35	919	3.40	5.67	2.16	3.60	7.29	12.16	2.19	3.65	7.52	12.53	4.71	7.85	5.03	8.38	3.17	5.29	4.38	7.30	2.80	4.67	3.78	6.30	2.32	3.86	3.73	6.22	1.93	3.22	4.26	7.10	2.37	3.95
North	U36-L35	920	5.26	8.77	1.47	2.44	7.36	12.27	1.34	2.24	11.78	19.64	3.29	5.48	7.84	13.07	2.19	3.65	6.84	11.39	1.91	3.18	5.51	9.19	1.59	2.65	4.74	7.90	1.35	2.25	5.40	9.00	1.63	2.72
North	U37-L36	921	8.98	14.97	1.54	2.57	12.47	20.78	1.35	2.25	20.27	33.78	3.49	5.81	13.46	22.43	2.31	3.86	11.70	19.49	2.01	3.35	9.34	15.57	1.62	2.69	7.93	13.22	1.36	2.27	9.06	15.10	1.54	2.57
North	U38-L37	922	11.13	18.55	1.67	2.79	14.78	24.63	1.44	2.40	25.08	41.80	3.82	6.36	16.67	27.79	2.53	4.21	14.48	24.13	2.19	3.65	11.49	19.15	1.73	2.88	9.85	16.42	1.46	2.43	11.18	18.64	1.57	2.62
North	U39-L38	923	9.91	16.52	1.67	2.78	12.46	20.77	1.48	2.47	22.20	37.00	3.81	6.35	14.83	24.72	2.52	4.20	12.77	21.28	2.19	3.64	9.96	16.59	1.71	2.85	8.62	14.37	1.41	2.35	9.61	16.01	1.55	2.59
North	U40-L39	924	5.78	9.64	1.75	2.92	7.25	12.09	1.62	2.71	12.94	21.57	3.98	6.64	8.65	14.42	2.64	4.40	7.44	12.40	2.29	3.82	5.81	9.69	1.81	3.01	5.05	8.42	1.50	2.50	5.63	9.38	1.65	2.75
North	U40-L41	925	31.47	52.45	1.92	3.21	45.77	76.28	1.61	2.68	63.41	105.69	3.86	6.44	43.85	73.09	2.69	4.48	38.17	63.61	2.33	3.88	31.87	53.11	1.99	3.31	19.88	33.14	1.62	2.71	23.61	39.35	1.80	3.00
North	U41-L42	926	38.85	64.74	1.81	3.02	63.64	106.06	1.61	2.68	91.52	152.53	4.09	6.81	59.95	99.91	2.72	4.54	51.31	85.52	2.38	3.96	38.08	63.47	1.85	3.08	24.26	40.43	1.54	2.57	30.52	50.87	1.75	2.92
North	U42-L43	927	42.85	71.41	1.49	2.49	59.01	98.35	1.39	2.32	92.99	154.99	3.28	5.46	62.79	104.65	2.20	3.67	54.73	91.21	1.93	3.22	45.88	76.47	1.58	2.64	29.51	49.18	1.33	2.22	37.18	61.96	1.54	2.56
North	U43-L44	928	32.50	54.17	1.34	2.23	41.12	68.53	1.35	2.25	70.82	118.03	2.87	4.79	47.69	79.49	1.94	3.24	41.73	69.54	1.70	2.83	35.52	59.19	1.48	2.46	24.67	41.12	1.27	2.11	28.30	47.17	1.47	2.44
North	U44-L45	929	3.58	5.97	1.51	2.52	6.54	10.89	1.97	3.28	7.27	12.12	3.12	5.21	4.97	8.29	2.14	3.57	4.48	7.46	1.89	3.16	5.17	8.61	1.84	3.06	5.13	8.55	1.56	2.60	7.02	11.69	1.83	3.04
North	U46-L45	930	4.05	6.75	1.37	2.28	8.34	13.90	1.91	3.19	7.75	12.91	2.95	4.91	5.42	9.03	1.98	3.30	5.04	8.39	1.75	2.91	5.96	9.94	1.71	2.86	5.43	9.05	1.37	2.28	5.94	9.91	1.78	2.97
North	U47-L46	931	26.91	44.85	**1.20**	**2.00**	49.32	82.20	1.36	2.27	58.12	96.86	**2.66**	**4.43**	39.11	65.19	**1.77**	**2.96**	34.49	57.48	**1.55**	**2.59**	30.85	51.42	1.36	2.27	22.74	37.90	1.17	1.94	33.55	55.91	1.37	2.29
North	U48-L47	932	30.93	51.54	1.36	2.26	58.75	97.92	1.40	2.34	67.23	112.06	3.06	5.10	45.15	75.25	2.03	3.38	39.77	66.28	1.76	2.94	35.57	59.28	1.46	2.43	25.71	42.85	1.23	2.05	35.69	59.49	1.42	2.37
North	U49-L48	933	26.61	44.35	1.70	2.84	58.36	97.26	1.61	2.68	59.12	98.53	3.90	6.51	39.26	65.44	2.58	4.30	33.88	56.46	2.23	3.72	28.63	47.71	1.75	2.92	19.75	32.91	1.45	2.42	26.34	43.89	1.66	2.77
North	U50-L49	934	35.18	58.64	2.85	4.76	63.76	106.26	2.60	4.34	70.96	118.27	5.99	9.99	48.54	80.90	4.00	6.66	43.32	72.19	3.53	5.89	39.83	66.38	3.11	5.19	28.90	48.17	2.48	4.13	31.95	53.24	2.79	4.65
North	U50-L51	935	6.21	10.35	1.93	3.22	7.74	12.91	1.44	2.41	14.21	23.69	4.49	7.48	9.37	15.62	2.96	4.93	8.06	13.43	2.54	4.24	6.22	10.36	1.88	3.13	5.36	8.93	1.48	2.47	5.98	9.97	1.59	2.65
North	U51-L52	936	9.54	15.91	1.38	2.30	12.44	20.74	1.09	1.81	21.84	36.40	3.19	5.31	14.39	23.98	2.10	3.50	12.38	20.63	1.81	3.01	9.54	15.91	1.35	2.25	8.26	13.77	1.13	1.88	9.20	15.34	1.18	1.97
North	U52-L53	937	10.84	18.06	1.21	2.02	14.95	24.92	**0.96**	1.60	24.90	41.50	2.79	4.65	16.32	27.20	1.84	3.06	14.06	23.43	1.58	2.64	10.79	17.99	**1.19**	**1.99**	9.57	15.94	**0.99**	**1.65**	10.54	17.57	1.07	1.78
North	U53-L54	938	9.80	16.33	1.26	2.10	13.33	22.22	1.05	1.74	22.52	37.53	2.90	4.83	14.76	24.60	1.91	3.19	12.71	21.19	1.65	2.75	9.76	16.26	1.26	2.10	8.54	14.24	1.03	1.72	9.52	15.87	1.14	1.90
North	U54-L55	939	8.35	13.91	1.56	2.60	11.24	18.74	1.36	2.27	19.19	31.98	3.56	5.93	12.58	20.96	2.35	3.92	10.83	18.06	2.03	3.38	8.31	13.85	1.58	2.64	7.22	12.03	1.35	2.25	8.11	13.51	1.44	2.40
North	U55-L56	940	3.16	5.27	1.75	2.92	5.82	9.69	1.92	3.20	7.16	11.93	3.96	6.59	4.73	7.89	2.62	4.37	4.11	6.84	2.27	3.79	3.34	5.57	1.83	3.04	3.18	5.29	1.59	2.65	3.76	6.26	1.82	3.04
North	U57-L56	941	5.97	9.95	1.43	2.39	9.57	15.95	1.38	2.29	13.39	22.31	3.25	5.42	8.89	14.82	2.15	3.59	7.74	12.90	1.86	3.10	6.48	10.80	1.49	2.49	5.62	9.36	1.28	2.13	6.42	10.70	1.53	2.55
North	U58-L57	942	12.36	20.60	1.23	2.05	14.49	24.15	1.03	1.71	28.35	47.25	2.82	4.70	18.70	31.16	1.86	3.10	16.08	26.79	1.60	2.67	12.37	20.62	1.25	2.08	10.30	17.16	1.05	1.74	11.56	19.26	1.13	1.89
North	U59-L58	943	14.25	23.75	1.46	2.43	17.31	28.86	1.18	1.96	32.65	54.41	3.37	5.62	21.52	35.86	2.22	3.69	18.50	30.83	1.91	3.18	14.23	23.72	1.46	2.43	12.01	20.01	1.19	1.98	13.43	22.39	1.34	2.23
North	U60-L59	944	11.16	18.61	1.55	2.58	15.51	25.86	1.25	2.08	25.68	42.80	3.58	5.97	16.83	28.06	2.35	3.92	14.49	24.15	2.02	3.37	11.13	18.55	1.53	2.55	9.74	16.23	1.25	2.09	10.88	18.13	1.37	2.28
North	U61-L60	945	7.25	12.08	1.87	3.11	10.33	17.21	1.59	2.65	16.67	27.78	4.32	7.19	10.92	18.21	2.84	4.73	9.40	15.67	2.44	4.07	7.22	12.04	1.84	3.07	6.39	10.65	1.52	2.53	7.08	11.80	1.61	2.69
North	U62-L61	946	4.20	7.00	1.80	3.00	6.16	10.27	1.59	2.65	9.66	16.09	4.17	6.94	6.33	10.55	2.74	4.56	5.45	9.08	2.36	3.93	4.19	6.98	1.78	2.96	3.70	6.17	1.43	2.38	4.10	6.83	1.54	2.56
North	U62-L63	947	31.09	51.82	2.10	3.50	35.60	59.34	1.94	3.23	70.69	117.81	4.51	7.51	45.92	76.53	2.98	4.97	39.82	66.37	2.61	4.35	37.20	62.00	2.58	4.31	28.99	48.31	1.93	3.21	51.81	86.34	2.71	4.52
North	U63-L64	948	38.02	63.36	1.77	2.95	52.90	88.16	1.51	2.51	86.82	144.71	3.88	6.47	56.16	93.59	2.57	4.28	49.07	81.78	2.24	3.74	40.40	67.33	1.87	3.11	26.98	44.97	1.51	2.52	34.58	57.64	1.70	2.84
North	U64-L65	949	42.13	70.22	1.57	2.61	61.91	103.19	1.41	2.35	99.46	165.77	3.59	5.98	65.42	109.04	2.38	3.96	55.53	92.56	2.04	3.40	41.55	69.25	1.61	2.69	26.43	44.06	1.33	2.21	33.38	55.64	1.52	2.53
North	U65-L66	950	39.01	65.02	1.46	2.43	57.62	96.03	1.28	2.14	89.94	149.89	3.30	5.49	59.12	98.53	2.18	3.64	50.58	84.30	1.89	3.14	42.97	71.61	1.57	2.61	27.22	45.37	1.30	2.17	34.03	56.72	1.51	2.52
North	U66-L67	951	25.85	43.08	1.29	2.15	40.81	68.02	1.28	2.13	55.76	92.94	2.87	4.78	37.35	62.26	1.90	3.17	32.98	54.97	1.65	2.75	29.81	49.69	1.45	2.42	24.39	40.65	1.23	2.05	28.46	47.44	1.43	2.39
North	U67-L68	952	3.44	5.73	2.20	3.67	6.27	10.45	3.07	5.12	7.00	11.66	4.76	7.93	4.77	7.95	3.18	5.30	4.23	7.05	2.77	4.62	4.95	8.26	2.76	4.61	4.50	7.50	2.13	3.55	7.18	11.97	2.69	4.48
North	U69-L68	953	3.51	5.85	1.68	2.79	6.97	11.62	2.09	3.49	7.04	11.73	3.61	6.01	4.83	8.05	2.42	4.04	4.26	7.10	2.10	3.50	5.41	9.01	2.03	3.38	3.60	6.00	1.69	2.81	5.01	8.36	2.14	3.57
North	U70-L69	954	26.28	43.80	1.27	2.12	15.22	25.36	1.33	2.21	57.59	95.98	2.80	4.67	38.46	64.10	1.86	3.10	33.07	55.12	1.61	2.68	28.24	47.07	1.41	2.34	21.04	35.07	1.21	2.01	27.45	45.75	1.43	2.38
North	U71-L70	955	32.44	54.06	1.45	2.42	50.90	84.83	1.41	2.34	72.37	120.61	3.26	5.44	48.21	80.35	2.17	3.61	41.53	69.22	1.87	3.11	34.69	57.81	1.54	2.57	24.47	40.79	1.29	2.15	33.01	55.02	1.50	2.49
North	U72-L71	956	37.44	62.40	1.81	3.02	45.17	75.29	1.67	2.78	85.20	142.01	4.13	6.88	56.42	94.03	2.73	4.55	48.79	81.32	2.36	3.93	38.73	64.54	1.87	3.11	26.44	44.06	1.54	2.57	33.02	55.03	1.76	2.94
North	U73-L72	957	28.91	48.19	1.72	2.86	72.70	121.17	1.46	2.43	63.10	105.16	3.74	6.24	41.85	69.74	2.47	4.12	36.12	60.20	2.16	3.60	29.75	49.59	1.78	2.97	21.66	36.09	1.46	2.44	25.10	41.84	1.62	2.71
North	U74-L73	958	63.40	105.67	3.40	5.67	59.95	99.91	3.22	5.36	135.11	225.19	7.30	12.16	89.58	149.30	4.82	8.03	77.61	129.36	4.21	7.02	79.35	132.24	4.12	6.87	45.34	75.57	3.03	5.05	62.45	104.08	3.83	6.39
North	U74-L75	959	6.96	11.60	2.60	4.33	7.75	12.91	1.53	2.55	16.03	26.71	6.05	10.09	10.49	17.48	3.99	6.65	9.03	15.04	3.41	5.69	6.86	11.44	2.50	4.17	5.92	9.87	1.79	2.99	6.51	10.85	1.96	3.27
North	U75-L76	960	7.61	12.69	2.17	3.61	8.44	14.06	1.31	2.18	17.59	29.32	5.05	8.41	11.51	19.18	3.33	5.55	9.89	16.49	2.85	4.75	7.46	12.43	2.09	3.49	6.42	10.69	1.55	2.58	7.02	11.69	1.66	2.77
North	U76-L77	961	9.23	15.39	2.26	3.77	9.79	16.31	1.37	2.29	21.46	35.77	5.28	8.79	14.06	23.43	3.48	5.79	12.05	20.08	2.98	4.96	8.94	14.89	2.19	3.65	7.72	12.86	1.64	2.74	8.22	13.70	1.76	2.93
North	U77-L78	962	8.74	14.56	2.21	3.69	9.09	15.14	1.37	2.28	20.37	33.94	5.15	8.58	13.32	22.20	3.39	5.65	11.42	19.04	2.90	4.84	8.41	14.01	2.15	3.58	7.18	11.97	1.60	2.66	7.66	12.76	1.74	2.91
North	U78-L79	963	7.74	12.90	2.41	4.01	8.05	13.42	1.54	2.57	18.04	30.07	5.59	9.31	11.80	19.67	3.69	6.15	10.12	16.86	3.16	5.26	7.45	12.41	2.34	3.90	6.36	10.60	1.78	2.97	6.79	11.31	1.93	3.22
North	U79-L80	964	5.15	8.59	2.01	3.35	5.36	8.94	1.38	2.29	12.02	20.03	4.65	7.74	7.86	13.10	3.07	5.12	6.74	11.23	2.63	4.39	4.96	8.27	1.97	3.28	4.24	7.06	1.50	2.50	4.52	7.53	1.65	2.75
North	U80-L81	965	3.22	5.37	2.82	4.69	3.37	5.62	2.21	3.69	7.46	12.44	6.48	10.81	4.90	8.16	4.28	7.14	4.21	7.02	3.68	6.13	3.12	5.20	2.78	4.64	2.67	4.44	2.21	3.69	2.84	4.74	2.45	4.08
North	U81-L82	966	2.49	4.15	5.72	9.54	2.66	4.43	5.37	8.96	5.74	9.57	13.10	21.83	3.78	6.30	8.66	14.43	3.26	5.43	7.45	12.42	2.49	4.15	5.70	9.51	2.03	3.38	5.17	8.62	2.13	3.54	5.65	9.41
North	U83-L82	967	9.22	15.37	2.38	3.97	13.98	23.30	1.50	2.50	21.02	35.03	5.50	9.16	13.87	23.12	3.62	6.04	12.00	20.01	3.13	5.21	9.31	15.52	2.39	3.98	8.69	14.49	1.66	2.76	9.64	16.06	2.07	3.45
North	U84-L83	968	18.33	30.55	3.16	5.26	20.67	34.46	1.91	3.18	42.15	70.25	7.31	12.19	27.58	45.97	4.82	8.03	23.74	39.57	4.15	6.91	18.17	30.28	3.12	5.19	14.95	24.92	2.21	3.69	17.19	28.65	2.62	4.37
North	U85-L84	969	17.16	28.61	2.17	3.62	19.44	32.39	1.33	2.22	39.55	65.92	5.04	8.41	25.88	43.13	3.32	5.53	22.27	37.12	2.86	4.76	16.92	28.20	2.13	3.55	14.23	23.72	1.61	2.68	15.77	26.29	1.74	2.90
North	U86-L85	970	15.02	25.03	2.37	3.96	16.83	28.05	1.48	2.46	34.76	57.94	5.52	9.21	22.79	37.98	3.63	6.06	19.56	32.60	3.12	5.21	14.67	24.45	2.31	3.85	12.34	20.56	1.74	2.89	13.48	22.47	1.87	3.12
North	U87-L86	971	9.29	15.48	2.43	4.05	10.21	17.02	1.52	2.54	21.65	36.08	5.64	9.41	14.17	23.62	3.71	6.19	12.15	20.25	3.19	5.32	8.94	14.91	2.36	3.93	7.66	12.77	1.73	2.88	8.16	13.60	1.88	3.14
North	U88-L87	972	5.02	8.37	2.27	3.78	5.36	8.94	1.49	2.49	11.70	19.51	5.27	8.79	7.66	12.77	3.47	5.78	6.57	10.94	2.98	4.97	4.84	8.06	2.21	3.68	4.15	6.91	1.64	2.73	4.42	7.36	1.76	2.93
North	U89-L88	973	3.91	6.52	2.67	4.45	4.15	6.92	1.83	3.05	9.12	15.20	6.18	10.30	5.97	9.95	4.07	6.79	5.12	8.53	3.50	5.83	3.77	6.28	2.61	4.35	3.23	5.39	1.93	3.21	3.44	5.74	2.11	3.52
North	U90-L89	974	2.85	4.74	4.71	7.84	3.01	5.02	3.21	5.35	6.63	11.06	10.86	18.11	4.34	7.24	7.16	11.93	3.72	6.20	6.15	10.25	2.74	4.57	4.63	7.72	2.35	3.92	3.42	5.70	2.50	4.17	3.75	6.25
North	U90-L91	975	2.01	3.35	8.97	14.95	1.72	2.86	18.30	30.51	4.65	7.75	19.05	31.74	3.05	5.08	12.61	21.01	2.62	4.37	11.07	18.45	1.97	3.28	11.46	19.10	1.62	2.71	13.11	21.85	1.79	2.98	16.79	27.98

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Built Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS-20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	U91-L92	976	6.64	11.07	4.46	7.44	6.41	10.68	10.46	17.44	15.27	25.45	9.61	16.02	10.08	16.80	6.36	10.59	8.66	14.43	5.56	9.27	6.67	11.11	5.42	9.03	5.44	9.06	6.06	10.10	6.03	10.06	7.52	12.53
North	U92-L93	977	40.32	67.21	2.68	4.47	55.13	91.88	3.09	5.14	90.65	151.09	5.83	9.72	58.95	98.25	3.86	6.43	51.34	85.57	3.37	5.61	48.54	80.90	3.21	5.36	35.68	59.47	2.69	4.49	41.29	68.82	3.16	5.26
North	U93-L94	978	45.82	76.37	1.85	3.09	60.62	101.04	1.60	2.67	102.56	170.94	4.05	6.74	66.41	110.69	2.68	4.46	58.17	96.96	2.33	3.89	54.69	91.15	2.19	3.64	33.10	55.16	1.62	2.70	35.96	59.94	1.87	3.12
North	U94-L95	979	56.75	94.58	1.99	3.31	47.11	78.52	1.44	2.41	131.04	218.40	4.52	7.53	86.07	143.45	2.99	4.98	73.85	123.08	2.58	4.30	57.06	95.10	1.98	3.30	30.91	51.52	1.50	2.49	38.52	64.20	1.74	2.89
North	U95-L96	980	56.32	93.87	2.08	3.46	78.95	131.58	1.39	2.32	131.29	218.82	4.80	8.00	86.83	144.71	3.17	5.29	73.71	122.86	2.72	4.53	55.89	93.16	2.06	3.44	31.42	52.36	1.61	2.69	38.70	64.50	1.79	2.98
North	U96-L97	981	47.59	79.31	1.89	3.15	58.41	97.35	1.60	2.67	110.40	184.00	4.34	7.23	72.96	121.60	2.88	4.79	62.08	103.46	2.46	4.11	48.23	80.38	1.91	3.18	29.34	48.91	1.55	2.58	35.04	58.41	1.71	2.84
North	U97-L98	982	28.15	46.92	1.61	2.68	45.01	75.01	1.58	2.63	54.95	91.59	3.66	6.10	38.15	63.59	2.43	4.05	34.45	57.41	2.09	3.48	31.29	52.16	1.66	2.76	24.49	40.82	1.37	2.28	30.38	50.64	1.58	2.64
North	U98-L99	983	9.66	16.10	1.57	2.62	16.27	27.12	1.73	2.89	19.49	32.49	3.55	5.91	13.28	22.14	2.36	3.94	11.92	19.86	2.03	3.38	13.50	22.51	1.67	2.78	11.43	19.05	1.40	2.33	16.55	27.59	1.75	2.92
North	U99-L100	984	3.52	5.86	2.38	3.96	7.81	13.02	3.98	6.63	7.57	12.62	5.28	8.80	5.07	8.46	3.54	5.90	4.46	7.44	3.05	5.08	4.37	7.28	2.66	4.43	4.75	7.92	2.34	3.89	6.25	10.41	3.36	5.60
North	U101-L100	985	3.40	5.67	2.44	4.07	7.91	13.18	4.20	6.99	7.36	12.27	5.42	9.03	4.98	8.30	3.61	6.01	4.30	7.16	3.15	5.24	4.16	6.93	2.74	4.57	4.84	8.07	2.46	4.10	5.99	9.98	3.56	5.94
North	U102-L101	986	8.38	13.97	1.36	2.27	15.63	26.05	1.56	2.60	17.13	28.56	3.07	5.12	11.83	19.71	2.03	3.39	10.28	17.13	1.77	2.94	11.92	19.86	1.45	2.42	12.81	21.36	1.24	2.06	18.89	31.48	1.57	2.61
North	U103-L102	987	27.47	45.78	1.61	2.68	46.99	78.31	1.53	2.55	56.33	93.88	3.66	6.11	37.84	63.07	2.42	4.04	34.49	57.49	2.10	3.49	31.15	51.92	1.66	2.77	30.67	51.12	1.38	2.30	40.80	67.99	1.62	2.70
North	U104-L103	988	58.80	97.99	1.87	3.12	104.48	174.13	1.59	2.65	135.06	225.10	4.30	7.17	89.70	149.51	2.84	4.73	77.02	128.37	2.45	4.08	59.80	99.67	1.89	3.15	40.64	67.73	1.55	2.58	49.31	82.18	1.70	2.83
North	U105-L104	989	94.54	157.56	3.55	5.91	148.60	247.66	2.82	4.71	216.86	361.43	8.19	13.65	144.66	241.10	5.40	8.99	123.72	206.21	4.65	7.75	93.29	155.48	3.53	5.88	50.77	84.61	2.76	4.61	64.43	107.38	3.08	5.14
North	U106-L105	990	90.37	150.61	3.61	6.02	146.87	244.79	2.68	4.46	198.83	331.38	8.11	13.52	132.75	221.25	5.40	8.99	114.26	190.43	4.65	7.75	88.98	148.30	3.60	5.99	45.34	75.56	2.70	4.50	59.73	99.55	3.16	5.27
North	U107-L106	991	74.43	124.05	3.22	5.37	124.36	207.27	2.62	4.36	158.51	264.18	7.02	11.70	105.00	175.00	4.65	7.76	90.84	151.40	4.04	6.73	88.00	146.66	3.67	6.12	56.66	94.44	2.59	4.32	61.26	102.10	3.14	5.23
North	U108-L107	992	37.49	62.48	2.66	4.44	87.03	145.05	2.88	4.80	80.02	133.37	5.76	9.59	52.93	88.21	3.81	6.35	45.80	76.34	3.32	5.53	44.62	74.37	3.12	5.21	36.67	61.12	2.61	4.35	42.06	70.10	3.05	5.08
North	U109-L108	993	5.28	8.80	7.22	12.03	5.42	9.04	15.11	25.18	12.17	20.28	15.32	25.53	8.03	13.38	10.10	16.83	6.88	11.47	8.87	14.79	5.24	8.73	9.06	15.11	4.13	6.88	10.28	17.13	4.59	7.64	13.03	21.72
North	U110-L109	994	3.25	5.41	11.33	18.88	2.93	4.89	22.16	36.93	7.51	12.52	23.99	39.98	4.92	8.21	15.82	26.36	4.23	7.05	13.91	23.18	3.17	5.29	14.40	23.99	2.56	4.26	15.82	26.37	2.81	4.69	20.30	33.84
North	U110-L111	995	4.35	7.24	5.04	8.41	4.73	7.88	3.72	6.20	10.13	16.88	11.67	19.45	6.62	11.04	7.67	12.79	5.68	9.47	6.60	11.00	4.18	6.97	4.93	8.22	3.55	5.92	3.73	6.22	3.79	6.32	4.17	6.96
North	U111-L112	996	5.16	8.59	3.13	5.21	5.50	9.17	2.21	3.68	12.02	20.03	7.25	12.09	7.86	13.10	4.77	7.94	6.74	11.23	4.10	6.84	4.96	8.27	3.04	5.07	4.22	7.03	2.27	3.79	4.50	7.49	2.51	4.18
North	U112-L113	997	6.42	10.70	1.98	3.29	6.89	11.48	1.27	2.11	14.96	24.93	4.59	7.66	9.78	16.31	3.02	5.03	8.39	13.98	2.60	4.33	6.17	10.29	1.91	3.18	5.25	8.74	1.43	2.38	5.60	9.33	1.60	2.67
North	U113-L114	998	14.27	23.79	2.05	3.41	15.83	26.38	1.27	2.11	33.29	55.48	4.77	7.95	21.77	36.29	3.13	5.22	18.66	31.11	2.70	4.50	13.73	22.88	1.97	3.28	11.66	19.43	1.46	2.43	12.43	20.72	1.63	2.72
North	U114-L115	999	50.03	83.38	2.37	3.95	57.35	95.59	1.42	2.36	117.52	195.87	5.54	9.23	76.80	128.00	3.64	6.07	65.79	109.65	3.13	5.21	47.36	78.93	2.28	3.80	39.12	65.19	1.73	2.89	42.36	70.60	1.87	3.11
North	U115-L116	1000	45.27	75.46	2.26	3.76	105.02	175.04	1.35	2.25	102.39	170.65	5.26	8.76	67.89	113.15	3.46	5.77	58.97	98.29	2.97	4.96	48.81	81.35	2.19	3.65	57.03	95.05	1.67	2.78	61.50	102.50	1.81	3.02
North	U116-L117	1001	17.75	29.58	3.03	5.05	41.26	68.77	2.08	3.47	40.09	66.81	7.03	11.71	26.57	44.28	4.63	7.72	23.00	38.34	3.99	6.64	18.58	30.97	2.98	4.97	21.34	35.57	2.18	3.64	23.43	39.04	2.56	4.26
North	U117-L118	1002	10.23	17.05	2.98	4.97	22.69	37.82	2.33	3.88	23.39	38.98	6.86	11.44	15.43	25.72	4.53	7.56	13.32	22.20	3.91	6.52	10.51	17.51	2.99	4.98	12.72	21.21	2.29	3.82	13.54	22.57	2.76	4.60
North	U119-L118	1003	2.64	4.40	9.72	16.20	2.61	4.35	18.55	30.91	6.04	10.07	22.38	37.30	4.00	6.66	14.71	24.52	3.45	5.75	12.70	21.16	2.69	4.48	9.82	16.37	2.28	3.79	11.51	19.18	2.44	4.07	12.55	20.91
North	U120-L119	1004	3.51	5.84	4.72	7.86	4.75	7.92	5.56	9.27	7.96	13.27	10.93	18.21	5.28	8.79	7.18	11.96	4.56	7.60	6.18	10.30	3.58	5.97	4.69	7.81	3.23	5.38	4.26	7.11	3.58	5.97	4.94	8.24
North	U121-L120	1005	3.83	6.39	1.77	2.95	4.37	7.28	1.53	2.54	8.94	14.89	4.11	6.85	5.85	9.75	2.70	4.50	5.01	8.36	2.32	3.87	3.68	6.14	1.74	2.90	3.14	5.24	1.51	2.52	3.35	5.58	1.59	2.64
North	U122-L121	1006	6.95	11.58	1.89	3.15	8.00	13.33	1.43	2.38	16.19	26.98	4.42	7.37	10.60	17.66	2.90	4.83	9.09	15.14	2.49	4.15	6.68	11.13	1.84	3.06	5.70	9.50	1.42	2.37	6.07	10.12	1.54	2.57
North	U123-L122	1007	9.53	15.89	2.15	3.59	11.11	18.51	1.54	2.56	22.20	37.00	5.05	8.41	14.53	24.22	3.31	5.51	12.46	20.77	2.84	4.73	9.16	15.27	2.08	3.46	7.82	13.04	1.56	2.60	8.34	13.90	1.74	2.90
North	U124-L123	1008	11.81	19.69	2.83	4.72	13.99	23.32	1.95	3.25	27.52	45.87	6.68	11.13	18.00	30.00	4.37	7.28	15.44	25.73	3.74	6.24	11.37	18.95	2.70	4.50	9.67	16.12	2.04	3.39	10.32	17.19	2.28	3.81
North	U125-L124	1009	11.38	18.97	2.77	4.62	13.91	23.18	1.87	3.12	26.52	44.20	6.54	10.90	17.34	28.91	4.28	7.13	14.87	24.79	3.66	6.10	10.95	18.25	2.62	4.37	9.31	15.52	1.93	3.22	9.94	16.56	2.10	3.50
North	U126-L125	1010	11.59	19.31	3.48	5.80	13.89	23.15	2.16	3.60	27.00	45.00	8.25	13.75	17.66	29.43	5.39	8.99	15.14	25.24	4.61	7.69	11.15	18.58	3.27	5.45	9.48	15.80	2.35	3.92	10.11	16.85	2.56	4.26
			0.80	1.33	1.20	2.00	0.66	1.10	0.92	1.53	1.78	2.97	2.66	4.43	1.19	1.98	1.77	2.96	1.04	1.73	1.55	2.59	0.80	1.33	1.19	1.99	0.67	1.11	0.99	1.65	0.75	1.25	1.06	1.76
			North	North	North	North	North	North	South	South	North	North	North	North	North	North	North	North	North	North	North	North	North	North	North	North	North	North	North	North	North	South	South
			U0-L0	U0-L0	U47-L46	U47-L46	L61-L62	L61-L62	U112-L113	U112-L113	U0-L0	U0-L0	U47-L46	U47-L46	U0-L0	U0-L0	U47-L46	U47-L46	U0-L0	U0-L0	U47-L46	U47-L46	U0-L0	U0-L0	U52-L53	U52-L53	U0-L0	U0-L0	U52-L53	U52-L53	U0-L0	U0-L0	U112-L113	U112-L113

Truss	Member	Rating ID	As-Built Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
South	L0-L1	1	4.63	166.85	7.72	278.08	19.79	296.81	12.95	297.85	11.06	298.71	7.82	312.68	5.98	239.08	7.59	303.78
South	L1-L2	2	3.09	111.12	5.14	185.20	11.31	169.65	7.59	174.54	6.55	176.77	5.34	213.62	4.23	169.16	5.39	215.67
South	L2-L3	3	2.05	73.70	3.41	122.84	7.54	113.06	5.03	115.65	4.35	117.40	3.55	141.81	2.95	118.07	3.51	140.24
South	L3-L4	4	1.95	70.35	3.26	117.26	7.21	108.20	4.78	109.86	4.15	112.08	3.40	136.09	2.89	115.73	3.31	132.41
South	L4-L5	5	1.92	69.16	3.20	115.27	7.14	107.13	4.76	109.57	4.10	110.71	3.36	134.31	2.89	115.57	3.30	131.90
South	L5-L6	6	1.96	70.62	3.27	117.70	7.41	111.21	4.92	113.10	4.27	115.21	3.43	137.37	2.86	114.27	3.32	132.81
South	L6-L7	7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L7-L8	8	2.09	75.32	3.49	125.54	8.35	125.30	5.53	127.11	4.78	129.16	3.75	150.04	3.21	128.30	3.48	139.21
South	L8-L9	9	1.49	53.64	2.48	89.39	6.48	97.27	4.29	98.71	3.72	100.32	2.88	115.37	2.38	95.08	2.65	106.16
South	L9-L10	10	1.46	52.41	2.43	87.34	7.04	105.60	4.66	107.14	4.01	108.39	3.06	122.38	2.46	98.37	2.72	108.90
South	L10-L11	11	1.44	51.67	2.39	86.11	6.94	104.11	4.59	105.64	3.96	106.86	3.02	120.66	2.42	96.99	2.68	107.36
South	L11-L12	12	1.78	64.07	2.97	106.78	6.85	102.80	4.53	104.26	3.91	105.50	2.97	118.67	2.60	104.16	2.93	117.36
South	L12-L13	13	1.78	64.11	2.97	106.85	6.80	101.94	4.49	103.36	3.87	104.62	2.93	117.40	2.57	102.73	3.23	129.21
South	L13-L14	14	2.09	75.15	3.48	125.25	7.96	119.47	5.27	121.22	4.55	122.72	3.44	137.73	3.01	120.36	4.13	165.06
South	L14-L15	15	2.52	90.69	4.20	151.16	9.77	146.50	6.47	148.70	5.58	150.62	4.26	170.51	3.73	149.26	4.41	176.35
South	L15-L16	16	2.42	87.07	4.03	145.12	10.77	161.54	7.12	163.78	6.13	165.41	4.73	189.04	3.90	155.96	4.22	169.00
South	L16-L17	17	2.19	78.91	3.65	131.52	8.21	123.14	5.45	125.38	4.70	126.86	3.69	147.65	3.36	134.54	3.72	148.96
South	L17-L18	18	1.73	62.11	2.88	103.52	6.46	96.92	4.29	98.68	3.70	99.85	2.91	116.21	2.45	97.96	2.74	109.61
South	L18-L19	19	1.34	48.24	2.23	80.40	5.91	88.59	3.92	90.20	3.38	91.27	2.64	105.53	1.92	76.94	2.12	84.74
South	L19-L20	20	1.02	36.87	1.71	61.46	5.66	84.91	3.74	85.92	3.21	86.62	2.42	96.69	1.69	67.47	1.87	74.99
South	L20-L21	21	1.27	45.63	2.11	76.04	4.97	74.61	3.30	75.96	2.85	76.86	2.23	89.31	1.92	76.99	2.11	84.30
South	L21-L22	22	1.62	58.19	2.69	96.99	5.98	89.77	4.02	92.36	3.45	93.05	2.75	109.95	2.38	95.03	2.74	109.76
South	L22-L23	23	2.54	91.32	4.23	152.20	9.34	140.17	6.27	144.14	5.49	148.34	4.44	177.76	3.77	150.65	4.39	175.41
South	L23-L24	24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L24-L25	25	2.50	90.08	4.17	150.13	8.92	133.80	6.05	139.13	5.28	142.62	4.61	184.28	3.99	159.48	4.60	184.19
South	L25-L26	26	1.65	59.39	2.75	98.98	5.94	89.08	4.00	92.05	3.46	93.52	3.09	123.71	2.74	109.45	3.10	123.81
South	L26-L27	27	3.40	122.46	5.67	204.10	12.51	187.67	8.36	192.32	7.32	197.68	6.49	259.69	5.54	221.46	6.55	261.81
South	L27-L28	28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L28-L29	29	3.97	142.93	6.62	238.22	14.86	222.90	9.88	227.30	8.60	232.21	7.16	286.53	6.08	243.35	7.21	288.60
South	L29-L30	30	2.15	77.22	3.58	128.70	8.04	120.56	5.35	122.94	4.65	125.65	3.76	150.23	3.17	126.95	3.78	151.21
South	L30-L31	31	2.11	76.03	3.52	126.72	7.91	118.69	5.26	121.04	4.58	123.71	3.70	147.91	3.12	124.99	3.72	148.87
South	L31-L32	32	2.44	87.94	4.07	146.57	9.16	137.36	6.09	140.00	5.30	143.02	4.25	169.99	3.72	148.94	4.25	169.99
South	L32-L33	33	2.76	99.46	4.60	165.77	10.83	162.38	7.22	166.16	6.21	167.54	4.81	192.23	4.08	163.35	4.40	176.09
South	L33-L34	34	1.76	63.52	2.94	105.87	7.36	110.43	4.88	112.13	4.20	113.39	3.23	129.15	2.75	109.94	2.93	117.25
South	L34-L35	35	2.12	76.32	3.53	127.20	9.35	140.20	6.16	141.71	5.32	143.65	4.10	163.99	3.42	136.87	3.71	148.23
South	L35-L36	36	2.42	87.25	4.04	145.42	10.71	160.66	7.09	163.14	6.10	164.68	4.70	188.17	3.89	155.78	4.21	168.55
South	L36-L37	37	2.02	72.57	3.36	120.95	8.27	124.09	5.47	125.82	4.70	126.93	3.59	143.71	2.98	119.22	3.21	128.60
South	L37-L38	38	3.30	118.93	5.51	198.21	12.54	188.13	8.29	190.68	7.14	192.80	5.52	220.88	4.58	183.05	5.02	200.65
South	L38-L39	39	2.02	72.72	3.37	121.20	9.93	148.96	6.61	151.93	5.67	153.15	4.33	173.23	3.02	120.71	3.33	133.19
South	L39-L40	40	1.22	43.85	2.03	73.08	7.09	106.34	4.68	107.62	4.01	108.17	2.95	118.08	1.99	79.66	2.24	89.48
South	L40-L41	41	2.08	74.77	3.46	124.61	8.00	119.97	5.34	122.73	4.59	123.93	3.56	142.34	3.00	120.14	3.36	134.28
South	L41-L42	42	4.28	154.03	7.13	256.71	16.03	240.42	10.69	245.83	9.33	251.85	7.28	291.02	6.02	240.98	7.00	279.86
South	L42-L43	43	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L43-L44	44	3.56	128.32	5.94	213.86	13.01	195.15	8.76	201.37	7.65	206.55	6.30	252.08	5.44	217.74	6.23	249.28
South	L44-L45	45	1.92	68.97	3.19	114.95	6.98	104.76	4.69	107.87	4.05	109.25	3.39	135.58	3.00	119.82	3.38	135.31
South	L45-L46	46	1.96	70.60	3.27	117.66	7.20	108.03	4.81	110.74	4.19	113.03	3.50	139.95	3.06	122.47	3.48	139.14
South	L46-L47	47	3.96	142.53	6.60	237.54	14.75	221.23	9.82	225.78	8.56	231.15	7.19	287.58	6.09	243.67	7.09	283.49
South	L47-L48	48	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L48-L49	49	4.25	152.89	7.08	254.82	16.90	253.55	11.15	256.52	9.63	259.93	7.79	311.59	6.43	257.25	7.38	295.37
South	L49-L50	50	2.18	78.64	3.64	131.06	9.92	148.81	6.51	149.72	5.62	151.81	4.47	178.63	3.61	144.27	4.10	163.84
South	L50-L51	51	2.40	86.36	4.00	143.94	11.27	169.08	7.40	170.11	6.39	172.49	5.07	202.95	4.10	163.91	4.65	186.14
South	L51-L52	52	3.48	125.30	5.80	208.83	13.21	198.18	8.67	199.40	7.49	202.14	5.92	236.83	5.04	201.63	5.64	225.77
South	L52-L53	53	3.70	133.12	6.16	221.86	16.06	240.86	10.53	242.20	9.09	245.52	7.15	286.16	6.05	242.16	6.66	266.27
South	L53-L54	54	1.90	68.50	3.17	114.17	9.21	138.20	6.05	139.18	5.21	140.69	3.96	158.21	3.37	134.92	3.57	142.83
South	L54-L55	55	1.78	64.22	2.97	107.03	9.06	135.93	5.95	136.80	5.12	138.11	3.88	155.04	3.17	126.78	3.48	139.17
South	L55-L56	56	2.71	97.61	4.52	162.68	14.45	216.81	9.48	218.09	8.14	219.90	6.20	247.91	4.94	197.78	5.37	214.64
South	L56-L57	57	2.60	93.54	4.33	155.90	13.98	209.77	9.18	211.04	7.88	212.87	5.97	238.76	4.74	189.58	5.13	205.40
South	L57-L58	58	1.94	69.70	3.23	116.17	9.81	147.08	6.44	148.06	5.54	149.55	4.21	168.56	3.37	134.84	3.60	144.04
South	L58-L59	59	2.62	94.45	4.37	157.42	11.99	179.85	7.85	180.54	6.75	182.36	5.09	203.47	4.09	163.41	4.34	173.65
South	L59-L60	60	2.58	92.81	4.30	154.68	12.30	184.45	8.06	185.33	6.94	187.37	5.32	212.78	3.71	148.44	4.21	168.32
South	L60-L61	61	1.69	60.94	2.82	101.56	10.92	163.83	7.16	164.67	6.15	166.06	4.58	183.17	2.97	118.92	3.34	133.68
South	L61-L62	62	1.20	43.07	1.99	71.78	8.80	131.93	5.75	132.28	4.93	133.13	3.59	143.75	2.29	91.53	2.55	102.05
South	L62-L63	63	1.49	53.67	2.48	89.45	6.41	96.10	4.19	96.42	3.61	97.57	2.77	110.73	2.33	93.02	2.54	101.46
South	L63-L64	64	1.95	70.38	3.26	117.29	7.79	116.92	5.11	117.56	4.40	118.80	3.42	136.79	2.88	115.06	3.16	126.42
South	L64-L65	65	3.89	140.00	6.48	233.33	14.91	223.60	9.85	226.49	8.46	228.38	6.67	266.79	5.49	219.53	6.40	256.14
South	L65-L66	66	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L66-L67	67	3.36	121.03	5.60	201.72	12.69	190.39	8.38	192.85	7.24	195.43	6.05	241.87	5.07	203.00	5.92	236.86
South	L67-L68	68	1.68	60.54	2.80	100.90	6.30	94.44	4.13	94.93	3.58	96.71	2.98	119.09	2.62	104.69	2.97	118.84
South	L68-L69	69	1.75	63.05	2.92	105.08	6.53	98.01	4.28	98.38	3.71	100.07	3.09	123.44	2.71	108.36	3.07	122.90
South	L69-L70	70	3.57	128.60	5.95	214.34	13.37	200.59	8.88	204.19	7.67	207.06	6.36	254.42	5.34	213.40	6.30	251.92
South	L70-L71	71	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L71-L72	72	4.27	153.88	7.12	256.47	16.22	243.31	10.73	246.73	9.28	250.63	7.37	294.63	5.96	238.58	6.86	274.36
South	L72-L73	73	2.50	89.99	4.17	149.98	10.41	156.11	6.85	157.44	5.89	159.07	4.61	184.33	3.78	151.19	4.23	169.39
South	L73-L74	74	1.64	59.13	2.74	98.56	7.77	116.48	5.08	116.85	4.37	118.08	3.37	134.76	2.67	106.99	2.88	115.34
South	L74-L75	75	1.68	60.45	2.80	100.76	7.94	119.04	5.19	119.42	4.47	120.68	3.44	137.73	2.73	109.37	2.95	117.90
South	L75-L76	76	2.23	80.25	3.72	133.75	8.54	128.08	5.59	128.52	4.81	129.82	3.69	147.53	3.24	129.80	3.54	141.55
South	L76-L77	77	2.75	98.94	4.58	164.90	10.53	158.01	6.89	158.58	5.93	160.15	4.54	181.69	3.94	157.52	4.34	173.44
South	L77-L78	78	1.89	68.05	3.15	113.42	11.06	165.87	7.23	166.28	6.20	167.51	4.55	182.06	3.41	136.54	3.63	145.15
South	L78-L79	79	1.82	65.42	3.03	109.03	11.02	165.36	7.20	165.66	6.18	166.88	4.52	180.86	3.31	132.38	3.58	143.32
South	L79-L80	80	1.68	60.60	2.81	101.01	10.54	158.07	6.89	158.50	5.91	159.56	4.31	172.55	3.12	124.64	3.39	135.68
South	L80-L81	81	1.70	61.35	2.84	102.26	10.94	164.11	7.16	164.67	6.14	165.65	4.49	179.74	3.22	128.84	3.47	138.91
South	L81-L82	82	1.73	62.18	2.88	103.64	11.39	170.86	7.45	171.45	6.38	172.36	4.69	187.66	3.32	132.76	3.60	143.91

Truss	Member	Rating ID	As-Built Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
South	L82-L83	83	1.98	71.14	3.29	118.57	13.12	196.76	8.58	197.30	7.36	198.67	5.39	215.50	3.79	151.76	4.12	164.76
South	L83-L84	84	1.98	71.24	3.30	118.74	12.79	191.85	8.37	192.42	7.17	193.63	5.25	210.08	3.74	149.43	4.04	161.78
South	L84-L85	85	2.59	93.40	4.32	155.67	10.08	151.24	6.59	151.67	5.65	152.67	4.16	166.47	3.55	142.09	3.79	151.57
South	L85-L86	86	2.16	77.83	3.60	129.71	8.61	129.08	5.63	129.44	4.83	130.30	3.55	142.08	2.92	116.71	3.13	125.31
South	L86-L87	87	1.68	60.65	2.81	101.09	8.21	123.13	5.37	123.48	4.60	124.30	3.39	135.53	2.44	97.74	2.67	106.88
South	L87-L88	88	1.42	50.98	2.36	84.96	8.37	125.60	5.48	125.95	4.70	126.79	3.46	138.25	2.24	89.62	2.49	99.42
South	L88-L89	89	1.47	53.06	2.46	88.43	10.41	156.12	6.81	156.57	5.84	157.61	4.29	171.46	2.54	101.63	2.82	112.81
South	L89-L90	90	1.49	53.55	2.48	89.24	12.00	180.07	7.86	180.67	6.72	181.32	4.82	192.85	2.73	109.40	3.07	122.73
South	L90-L91	91	2.34	84.16	3.90	140.27	14.29	214.41	9.36	215.19	8.02	216.56	5.92	236.80	4.11	164.24	4.64	185.60
South	L91-L92	92	2.04	73.61	3.41	122.68	11.82	177.36	7.74	177.91	6.64	179.21	4.91	196.24	3.53	141.16	3.95	158.15
South	L92-L93	93	1.34	48.18	2.23	80.30	7.31	109.71	4.78	109.97	4.11	110.94	3.05	121.86	2.28	91.40	2.56	102.21
South	L93-L94	94	1.37	49.30	2.28	82.17	7.02	105.28	4.59	105.65	3.94	106.50	2.95	117.93	2.28	91.13	2.57	102.82
South	L94-L95	95	1.28	46.23	2.14	77.04	6.11	91.58	4.01	92.14	3.44	92.86	2.61	104.43	2.03	81.31	2.29	91.65
South	L95-L96	96	2.57	92.48	4.28	154.13	11.28	169.25	7.46	171.62	6.38	172.19	4.86	194.41	3.84	153.56	4.25	170.11
South	L96-L97	97	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L97-L98	98	2.09	75.10	3.48	125.16	8.42	126.25	5.57	128.00	4.77	128.83	3.72	148.73	3.04	121.47	3.37	134.78
South	L98-L99	99	1.75	62.90	2.91	104.83	7.10	106.48	4.66	107.09	4.01	108.27	3.14	125.48	2.64	105.51	2.93	117.15
South	L99-L100	100	1.79	64.47	2.98	107.45	7.31	109.71	4.79	110.22	4.13	111.60	3.25	129.90	2.76	110.60	3.03	121.04
South	L100-L101	101	1.81	65.24	3.02	108.73	7.41	111.15	4.85	111.56	4.18	112.90	3.29	131.46	2.80	112.12	3.07	122.76
South	L101-L102	102	1.74	62.61	2.90	104.34	7.06	105.90	4.64	106.74	4.00	107.89	3.12	124.81	2.62	104.92	2.92	116.75
South	L102-L103	103	1.86	66.85	3.09	111.41	7.48	112.21	4.94	113.56	4.27	115.24	3.31	132.35	2.71	108.28	2.98	119.19
South	L103-L104	104	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L104-L105	105	1.39	50.19	2.32	83.66	6.20	93.06	4.08	93.94	3.52	95.07	2.67	106.85	2.09	83.59	2.32	92.84
South	L105-L106	106	1.34	48.36	2.24	80.60	6.48	97.13	4.26	98.09	3.66	98.69	2.76	110.52	2.13	85.33	2.40	96.15
South	L106-L107	107	1.33	47.70	2.21	79.50	6.86	102.88	4.49	103.34	3.86	104.17	2.88	115.18	2.21	88.47	2.50	100.12
South	L107-L108	108	1.27	45.80	2.12	76.33	7.03	105.46	4.59	105.64	3.94	106.49	2.92	116.97	2.17	86.96	2.43	97.23
South	L108-L109	109	1.23	44.11	2.04	73.51	7.15	107.25	4.68	107.55	4.01	108.33	2.97	118.67	2.12	84.79	2.38	95.13
South	L109-L110	110	1.24	44.61	2.07	74.35	7.64	114.53	5.00	114.89	4.29	115.77	3.17	126.63	2.19	87.44	2.47	98.76
South	L110-L111	111	2.18	78.42	3.63	130.70	16.24	243.66	10.62	244.27	9.10	245.60	6.60	264.08	3.72	148.93	4.19	167.54
South	L111-L112	112	1.89	67.86	3.14	113.10	12.19	182.90	7.98	183.61	6.84	184.79	5.04	201.44	3.06	122.51	3.39	135.78
South	L112-L113	113	2.04	73.59	3.41	122.64	11.34	170.12	7.42	170.77	6.37	171.89	4.68	187.40	3.11	124.57	3.45	137.94
South	L113-L114	114	2.22	79.98	3.70	133.29	10.38	155.71	6.80	156.31	5.83	157.34	4.29	171.55	3.16	126.20	3.44	137.79
South	L114-L115	115	2.90	104.34	4.83	173.90	11.27	169.11	7.38	169.76	6.33	170.88	4.66	186.32	3.87	154.96	4.17	166.62
South	L115-L116	116	2.06	74.24	3.44	123.73	11.60	174.00	7.59	174.67	6.51	175.82	4.79	191.69	3.72	148.75	4.00	159.89
South	L116-L117	117	1.47	52.89	2.45	88.14	10.85	162.79	7.11	163.51	6.09	164.35	4.41	176.53	3.13	125.05	3.34	133.49
South	L117-L118	118	1.39	49.92	2.31	83.20	10.42	156.33	6.83	157.01	5.84	157.79	4.25	170.16	2.97	119.00	3.19	127.74
South	L118-L119	119	1.37	49.15	2.28	81.92	10.15	152.31	6.64	152.82	5.69	153.70	4.15	165.97	2.94	117.67	3.15	125.93
South	L119-L120	120	1.45	52.18	2.42	86.96	10.50	157.47	6.87	157.99	5.88	158.88	4.29	171.50	3.07	122.95	3.29	131.50
South	L120-L121	121	1.60	57.74	2.67	96.24	11.30	169.47	7.39	170.00	6.33	171.01	4.62	184.60	3.32	132.84	3.60	144.18
South	L121-L122	122	1.75	62.86	2.91	104.77	11.81	177.20	7.74	177.94	6.63	179.12	4.86	194.51	3.56	142.27	3.80	152.12
South	L122-L123	123	1.74	62.69	2.90	104.49	11.31	169.72	7.43	170.87	6.37	171.99	4.70	188.11	3.50	139.92	3.69	147.63
South	L123-L124	124	1.90	68.53	3.17	114.22	11.87	178.12	7.82	179.86	6.72	181.43	5.05	202.16	3.68	147.23	3.99	159.50
South	L124-L125	125	6.27	225.63	10.45	376.06	37.60	564.01	24.85	571.56	21.51	580.68	16.34	653.62	11.65	466.20	12.83	513.02
South	L125-L126	126	27.92	1005.14	46.53	1675.24	197.27	2959.12	128.67	2959.36	109.73	2962.83	76.28	3051.29	48.65	1945.85	52.57	2102.61
South	U0-U1	127	3.09	111.08	5.14	185.13	11.43	171.50	7.65	176.04	6.69	180.67	5.32	212.78	4.52	180.99	5.16	206.39
South	U1-U2	128	1.48	53.27	2.47	88.79	5.46	81.90	3.67	84.30	3.15	85.03	2.54	101.74	2.22	88.90	2.50	99.98
South	U2-U3	129	1.77	63.62	2.95	106.03	6.53	97.91	4.33	99.53	3.76	101.45	3.07	122.64	2.72	108.66	3.00	119.98
South	U3-U4	130	1.33	47.91	2.22	79.84	4.95	74.21	3.30	75.87	2.84	76.69	2.33	93.11	2.06	82.27	2.30	92.15
South	U4-U5	131	1.40	50.23	2.33	83.71	5.22	78.26	3.47	79.83	3.02	81.59	2.44	97.65	2.10	84.11	2.44	97.41
South	U5-U6	132	1.40	50.22	2.33	83.70	5.22	78.26	3.47	79.82	3.02	81.58	2.44	97.64	2.10	84.10	2.44	97.40
South	U6-U7	133	1.92	69.17	3.20	115.29	7.27	109.03	4.82	110.84	4.18	112.90	3.35	134.18	2.80	112.16	3.25	129.89
South	U7-U8	134	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U8-U9	135	2.46	88.38	4.09	147.31	9.80	147.07	6.49	149.17	5.61	151.55	4.38	175.19	3.63	145.13	3.96	158.31
South	U9-U10	136	2.11	75.97	3.52	126.62	9.27	139.12	6.13	141.09	5.31	143.31	4.10	164.11	3.30	132.07	3.62	144.95
South	U10-U11	137	2.26	81.35	3.77	135.58	8.70	130.49	5.75	132.30	4.97	134.28	3.77	150.86	3.30	132.00	3.74	149.48
South	U11-U12	138	2.29	82.51	3.82	137.51	8.74	131.12	5.78	132.97	5.00	134.92	3.79	151.80	3.33	133.39	4.25	169.88
South	U12-U13	139	2.62	94.15	4.36	156.92	9.97	149.53	6.59	151.66	5.70	153.85	4.33	173.33	3.82	152.75	5.29	211.51
South	U13-U14	140	2.12	76.27	3.53	127.11	9.41	141.22	6.21	142.77	5.36	144.76	4.13	165.07	3.44	137.65	3.72	148.73
South	U14-U15	141	1.72	62.06	2.87	103.44	8.09	121.33	5.33	122.68	4.59	124.03	3.56	142.23	2.91	116.25	3.21	128.59
South	U15-U16	142	1.72	62.06	2.87	103.44	8.09	121.32	5.33	122.68	4.59	124.02	3.56	142.22	2.91	116.24	3.21	128.59
South	U16-U17	143	1.89	67.95	3.15	113.26	8.48	127.20	5.62	129.22	4.83	130.32	3.70	148.15	3.06	122.31	3.31	132.54
South	U17-U18	144	2.56	92.26	4.27	153.77	9.83	147.49	6.53	150.18	5.63	151.92	4.42	176.67	3.94	157.64	4.29	171.78
South	U18-U19	145	2.09	75.41	3.49	125.69	7.85	117.76	5.21	119.91	4.49	121.29	3.53	141.02	3.13	125.06	3.54	141.69
South	U19-U20	146	2.20	79.15	3.66	131.92	8.24	123.63	5.47	125.88	4.72	127.32	3.70	147.99	3.26	130.28	3.71	148.53
South	U20-U21	147	2.08	74.92	3.47	124.87	8.06	120.93	5.39	123.90	4.64	125.40	3.71	148.39	3.03	121.03	3.61	144.40
South	U21-U22	148	3.51	126.48	5.86	210.81	13.05	195.80	8.72	200.64	7.58	204.60	6.16	246.39	4.90	196.03	6.09	243.44
South	U22-U23	149	10.74	386.58	17.90	644.30	40.02	600.36	26.50	609.42	22.94	619.30	18.10	723.82	14.26	570.42	19.37	774.69
South	U23-U24	150	1.90	68.56	3.17	114.27	6.80	101.97	4.61	106.02	4.00	107.91	3.42	136.73	3.00	119.92	3.54	141.46
South	U24-U25	151	1.30	46.74	2.16	77.91	4.67	70.02	3.12	71.71	2.72	73.41	2.38	95.32	2.18	87.06	2.42	96.79
South	U25-U26	152	1.30	46.75	2.16	77.92	4.67	70.03	3.12	71.72	2.72	73.42	2.38	95.35	2.18	87.07	2.42	96.81
South	U26-U27	153	1.49	53.67	2.48	89.45	5.38	80.70	3.62	83.29	3.14	84.65	2.76	110.36	2.47	98.80	2.78	111.40
South	U27-U28	154	2.99	107.77	4.99	179.61	11.04	165.55	7.37	169.54	6.45	174.15	5.67	226.75	4.83	193.10	5.69	227.70
South	U28-U29	155	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U29-U30	156	5.35	192.65	8.92	321.08	20.11	301.66	13.36	307.21	11.61	313.57	9.56	382.43	8.01	320.40	9.46	378.55
South	U30-U31	157	3.49	125.54	5.81	209.24	13.09	196.35	8.70	200.06	7.56	204.24	6.06	242.53	5.31	212.39	6.06	242.56
South	U31-U32	158	2.36	84.88	3.93	141.47	9.46	141.93	6.31	145.14	5.42	146.34	4.16	166.45	3.52	140.93	3.79	151.69
South	U32-U33	159	1.43	51.48	2.38	85.79	6.01	90.18	3.99	91.66	3.43	92.57	2.63	105.22	2.24	89.67	2.39	95.43
South	U33-U34	160	1.31	47.22	2.19	78.69	5.80	86.95	3.82	87.92	3.30	89.16	2.54	101.63	2.12	84.97	2.30	91.91
South	U34-U35	161	1.28	46.25	2.14	77.08	5.99	89.82	3.95	90.84	3.40	91.84	2.64	105.46	2.16	86.42	2.39	95.43
South	U35-U36	162	1.28	46.25	2.14	77.08	5.99	89.81	3.95	90.84	3.40	91.83	2.64	105.45	2.16	86.42	2.39	95.43
South	U36-U37	163	1.42	51.06	2.36	85.09	6.33	94.92	4.20	96.54	3.60	97.32	2.77	110.67	2.29	91.61	2.48	99.14
South	U37-U38	164	1.79	64.41	2.98	107.35	7.56	113.46	5.01	115.33	4.32	116.55	3.33	133.19	2.78	111.02	2.99	119.49

Truss	Member	Rating ID	As-Built Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
South	U38-U39	165	4.32	155.45	7.20	259.09	16.58	248.68	11.02	253.38	9.52	257.12	7.48	299.11	6.24	249.50	6.83	273.19
South	U39-U40	166	5.92	212.95	9.86	354.92	22.32	334.79	14.81	340.58	12.78	345.06	9.95	398.01	7.93	317.17	9.24	369.58
South	U40-U41	167	5.37	193.14	8.94	321.90	27.05	405.75	17.91	411.89	15.45	417.02	12.20	487.95	9.02	360.80	10.65	426.18
South	U41-U42	168	19.98	719.45	33.31	1199.08	73.00	1094.98	48.32	1111.30	42.08	1136.17	34.99	1399.43	26.66	1066.37	37.39	1495.77
South	U42-U43	169	3.08	111.05	5.14	185.09	11.26	168.90	7.58	174.33	6.58	177.69	5.39	215.45	4.53	181.08	5.57	222.64
South	U43-U44	170	1.53	54.97	2.55	91.62	5.59	83.90	3.75	86.24	3.23	87.32	2.68	107.10	2.37	94.66	2.74	109.69
South	U44-U45	171	1.42	51.03	2.36	85.04	5.21	78.19	3.45	79.28	3.00	80.93	2.58	103.32	2.32	92.68	2.56	102.58
South	U45-U46	172	1.42	51.03	2.36	85.06	5.21	78.21	3.45	79.29	3.00	80.94	2.58	103.34	2.32	92.70	2.57	102.60
South	U46-U47	173	1.65	59.53	2.76	99.21	6.07	91.09	4.06	93.37	3.53	95.30	2.94	117.67	2.57	102.98	2.94	117.62
South	U47-U48	174	3.65	131.56	6.09	219.27	13.63	204.51	9.07	208.63	7.91	213.48	6.62	264.73	5.58	223.18	6.53	261.40
South	U48-U49	175	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U49-U50	176	8.06	290.19	13.43	483.65	30.48	457.15	20.10	462.31	17.34	468.20	13.97	558.72	11.62	464.71	13.35	533.98
South	U50-U51	177	5.18	186.55	8.64	310.91	19.70	295.49	12.92	297.14	11.15	301.10	8.81	352.31	7.63	305.13	8.54	341.55
South	U51-U52	178	3.20	115.15	5.33	191.92	15.67	235.05	10.31	237.15	8.88	239.73	6.76	270.36	5.62	224.96	6.04	241.45
South	U52-U53	179	1.60	57.66	2.67	96.09	8.08	121.18	5.31	122.09	4.56	123.25	3.45	137.90	2.92	116.77	3.09	123.50
South	U53-U54	180	1.30	46.95	2.17	78.26	6.79	101.78	4.45	102.43	3.83	103.38	2.89	115.56	2.36	94.37	2.59	103.43
South	U54-U55	181	1.28	46.03	2.13	76.71	6.90	103.52	4.53	104.11	3.89	104.99	2.95	118.01	2.36	94.20	2.55	102.16
South	U55-U56	182	1.19	42.66	1.98	71.10	6.64	99.54	4.36	100.20	3.74	101.01	2.84	113.42	2.30	91.97	2.44	97.73
South	U56-U57	183	1.19	42.66	1.98	71.10	6.64	99.53	4.36	100.19	3.74	101.01	2.84	113.41	2.30	91.96	2.44	97.73
South	U57-U58	184	0.72	26.00	1.20	43.34	3.97	59.49	2.60	59.85	2.23	60.33	1.69	67.42	1.33	53.30	1.44	57.70
South	U58-U59	185	1.56	56.28	2.61	93.81	8.28	124.19	5.44	125.13	4.67	126.18	3.53	141.18	2.82	112.76	3.09	123.76
South	U59-U60	186	2.18	78.43	3.63	130.72	10.96	164.45	7.21	165.77	6.20	167.39	4.72	188.97	3.93	157.14	4.16	166.30
South	U60-U61	187	3.11	111.95	5.18	186.58	11.94	179.10	7.83	180.04	6.73	181.77	5.16	206.48	4.30	171.84	5.00	199.96
South	U61-U62	188	2.65	95.23	4.41	158.72	11.55	173.26	7.57	174.07	6.51	175.80	4.99	199.74	4.09	163.47	4.82	192.76
South	U62-U63	189	4.52	162.63	7.53	271.06	20.39	305.92	13.38	307.82	11.52	310.99	8.97	358.88	7.03	281.34	8.08	323.07
South	U63-U64	190	5.50	197.90	9.16	329.84	23.54	353.04	15.43	354.88	13.27	358.18	10.44	417.59	7.73	309.33	9.07	362.78
South	U64-U65	191	15.58	561.04	25.97	935.07	58.92	883.80	38.69	889.95	33.32	899.61	26.10	1044.19	18.29	731.57	21.98	879.25
South	U65-U66	192	2.91	104.81	4.85	174.68	10.99	164.84	7.24	166.54	6.25	168.87	5.18	207.23	4.21	168.47	4.96	198.21
South	U66-U67	193	1.23	44.43	2.06	74.06	4.63	69.40	3.03	69.77	2.63	71.01	2.16	86.54	1.89	75.55	2.23	89.06
South	U67-U68	194	1.38	49.73	2.30	82.88	5.15	77.19	3.38	77.75	2.92	78.93	2.51	100.55	2.24	89.56	2.53	101.27
South	U68-U69	195	1.38	49.73	2.30	82.89	5.15	77.19	3.38	77.75	2.92	78.93	2.51	100.55	2.24	89.56	2.53	101.27
South	U69-U70	196	1.61	57.91	2.68	96.51	6.01	90.15	3.93	90.49	3.41	92.01	2.82	112.82	2.47	98.76	2.86	114.47
South	U70-U71	197	3.14	113.14	5.24	188.57	11.78	176.71	7.82	179.82	6.75	182.29	5.58	223.01	4.69	187.46	5.55	222.07
South	U71-U72	198	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U72-U73	199	5.55	199.76	9.25	332.94	21.08	316.15	13.93	320.50	12.06	325.52	9.54	381.69	7.89	315.79	9.01	360.28
South	U73-U74	200	4.42	158.98	7.36	264.97	17.92	268.74	11.78	270.95	10.14	273.70	7.90	316.09	6.69	267.50	7.41	296.34
South	U74-U75	201	2.64	95.20	4.41	158.66	10.13	151.92	6.63	152.47	5.71	154.05	4.38	175.04	3.84	153.40	4.20	168.05
South	U75-U76	202	3.88	139.75	6.47	232.91	16.60	248.96	10.86	249.89	9.35	252.43	7.16	286.57	6.24	249.52	6.85	274.03
South	U76-U77	203	1.70	61.09	2.83	101.82	10.27	154.04	6.71	154.40	5.76	155.41	4.21	168.20	3.11	124.25	3.31	132.33
South	U77-U78	204	1.36	49.04	2.27	81.74	8.45	126.72	5.52	126.94	4.74	127.86	3.45	138.00	2.50	100.04	2.71	108.35
South	U78-U79	205	1.34	48.15	2.23	80.25	8.49	127.39	5.55	127.69	4.76	128.54	3.47	138.65	2.49	99.53	2.72	108.86
South	U79-U80	206	1.28	46.18	2.14	76.96	8.32	124.84	5.45	125.25	4.67	125.99	3.41	136.41	2.44	97.44	2.63	105.31
South	U80-U81	207	1.39	49.94	2.31	83.24	9.22	138.30	6.04	138.81	5.17	139.54	3.79	151.75	2.68	107.02	2.90	116.00
South	U81-U82	208	1.34	48.10	2.23	80.16	9.09	136.29	5.94	136.66	5.09	137.54	3.74	149.68	2.62	104.65	2.85	114.08
South	U82-U83	209	1.34	48.10	2.23	80.16	9.09	136.29	5.94	136.67	5.09	137.54	3.74	149.68	2.62	104.66	2.85	114.08
South	U83-U84	210	1.46	52.65	2.44	87.75	9.79	146.86	6.40	147.25	5.49	148.25	4.02	160.63	2.82	112.74	3.06	122.41
South	U84-U85	211	1.61	57.93	2.68	96.55	10.54	158.03	6.89	158.47	5.91	159.44	4.31	172.49	3.06	122.30	3.31	132.59
South	U85-U86	212	2.25	80.90	3.75	134.83	11.71	175.64	7.67	176.34	6.57	177.38	4.84	193.44	4.14	165.43	4.40	176.06
South	U86-U87	213	2.61	93.82	4.34	156.37	10.13	151.88	6.63	152.48	5.68	153.38	4.18	167.26	3.57	142.96	3.80	152.11
South	U87-U88	214	2.37	85.24	3.95	142.07	10.00	149.96	6.54	150.52	5.61	151.43	4.13	165.11	3.53	141.02	3.75	150.00
South	U88-U89	215	2.14	77.08	3.57	128.47	10.57	158.58	6.92	159.16	5.93	160.14	4.36	174.58	3.47	138.69	3.78	151.33
South	U89-U90	216	2.10	75.72	3.51	126.19	12.02	180.23	7.86	180.87	6.74	181.98	4.96	198.27	3.67	146.70	4.04	161.47
South	U90-U91	217	1.87	67.46	3.12	112.43	11.30	169.46	7.39	169.93	6.34	171.18	4.67	186.72	3.27	130.63	3.64	145.79
South	U91-U92	218	1.85	66.76	3.09	111.27	10.46	156.95	6.84	157.29	5.88	158.65	4.35	173.81	3.18	127.29	3.55	141.94
South	U92-U93	219	1.83	65.72	3.04	109.53	9.59	143.88	6.28	144.40	5.39	145.52	4.02	160.86	3.07	122.68	3.44	137.71
South	U93-U94	220	1.80	64.75	3.00	107.92	8.74	131.04	5.73	131.86	4.92	132.86	3.73	149.11	2.87	114.72	3.23	129.33
South	U94-U95	221	2.33	83.91	3.88	139.85	10.43	156.52	6.90	158.73	5.90	159.21	4.48	179.36	3.50	140.11	3.89	155.45
South	U95-U96	222	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U96-U97	223	1.93	69.63	3.22	116.05	7.93	119.00	5.25	120.65	4.50	121.38	3.49	139.69	2.82	112.98	3.13	125.22
South	U97-U98	224	1.42	51.24	2.37	85.41	5.88	88.26	3.86	88.77	3.32	89.72	2.59	103.71	2.16	86.41	2.39	95.59
South	U98-U99	225	1.21	43.53	2.02	72.56	5.03	75.42	3.29	75.75	2.84	76.70	2.22	88.87	1.88	75.35	2.04	81.78
South	U99-U100	226	1.21	43.44	2.01	72.40	5.03	75.43	3.30	75.90	2.84	76.70	2.28	91.18	1.89	75.70	2.14	85.72
South	U100-U101	227	1.21	43.44	2.01	72.39	5.03	75.42	3.30	75.88	2.84	76.69	2.28	91.17	1.89	75.69	2.14	85.71
South	U101-U102	228	1.18	42.59	1.97	70.99	4.93	73.88	3.23	74.20	2.78	75.08	2.19	87.44	1.84	73.62	2.02	80.91
South	U102-U103	229	1.19	43.01	1.99	71.68	4.94	74.06	3.24	74.51	2.79	75.39	2.18	87.15	1.83	73.26	2.01	80.38
South	U103-U104	230	1.43	51.34	2.38	85.57	5.79	86.80	3.83	88.03	3.30	88.99	2.58	103.39	2.12	84.93	2.33	93.14
South	U104-U105	231	11.40	410.40	19.00	684.00	45.68	685.21	29.97	689.22	25.75	695.18	19.66	786.25	15.66	626.50	17.81	712.43
South	U105-U106	232	2.44	87.81	4.07	146.35	10.36	155.36	6.79	156.13	5.83	157.32	4.35	173.94	3.55	142.01	3.97	158.89
South	U106-U107	233	2.10	75.75	3.51	126.26	9.93	148.90	6.52	150.04	5.61	151.35	4.17	166.91	3.36	134.56	3.78	151.08
South	U107-U108	234	2.07	74.48	3.45	124.14	10.62	159.28	6.98	160.44	5.98	161.38	4.44	177.49	3.53	141.11	3.90	155.94
South	U108-U109	235	2.06	74.02	3.43	123.36	11.36	170.46	7.45	171.26	6.38	172.31	4.71	188.39	3.61	144.29	3.95	158.02
South	U109-U110	236	2.17	78.23	3.62	130.38	12.82	192.34	8.39	192.96	7.19	194.16	5.28	211.21	3.87	154.86	4.25	169.93
South	U110-U111	237	2.53	91.00	4.21	151.66	13.90	208.51	9.09	209.12	7.79	210.39	5.72	228.63	4.25	169.84	4.60	184.09
South	U111-U112	238	2.66	95.69	4.43	159.48	12.59	188.89	8.24	189.41	7.06	190.60	5.19	207.42	4.07	163.00	4.43	177.10
South	U112-U113	239	3.09	111.15	5.15	185.25	12.44	186.56	8.13	187.10	6.97	188.29	5.13	205.02	4.35	173.97	4.64	185.46
South	U113-U114	240	2.94	105.86	4.90	176.44	11.43	171.46	7.48	171.95	6.41	173.06	4.71	188.47	4.00	159.99	4.26	170.57
South	U114-U115	241	1.84	66.26	3.07	110.44	11.98	179.75	7.85	180.58	6.73	181.62	4.89	195.41	3.45	138.04	3.74	149.60
South	U115-U116	242	1.35	48.54	2.25	80.90	9.02	135.23	5.91	135.89	5.06	136.59	3.68	147.10	2.59	103.51	2.78	111.20
South	U116-U117	243	1.21	43.63	2.02	72.71	9.15	137.32	6.00	137.90	5.13	138.58	3.74	149.62	2.61	104.36	2.82	112.64
South	U117-U118	244	1.08	38.82	1.80	64.71	8.23	123.40	5.39	123.87	4.61	124.55	3.36	134.57	2.36	94.33	2.54	101.75
South	U118-U119	245	1.08	38.82	1.80	64.70	8.22	123.27	5.38	123.73	4.61	124.42	3.36	134.43	2.36	94.23	2.54	101.64
South	U119-U120	246	1.06	38.28	1.77	63.79	7.94	119.16	5.20	119.56	4.45	120.28	3.25	130.03	2.30	92.02	2.47	98.87

Truss	Member	Rating ID	As-Built Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
South	U120-U121	247	1.11	39.95	1.85	66.58	8.06	120.93	5.28	121.33	4.52	122.05	3.30	131.91	2.36	94.38	2.54	101.63
South	U121-U122	248	1.19	42.87	1.98	71.45	8.37	125.62	5.48	126.02	4.70	126.80	3.43	137.15	2.46	98.57	2.69	107.65
South	U122-U123	249	1.19	42.93	1.99	71.55	8.05	120.76	5.27	121.25	4.52	122.08	3.32	132.77	2.42	96.97	2.60	104.20
South	U123-U124	250	1.32	47.69	2.21	79.48	8.53	127.90	5.60	128.79	4.80	129.70	3.56	142.26	2.64	105.56	2.80	112.06
South	U124-U125	251	1.89	68.16	3.16	113.61	11.49	172.36	7.57	174.00	6.51	175.64	4.90	195.94	3.54	141.71	3.86	154.54
South	U125-U126	252	6.37	229.25	10.61	382.08	36.51	547.61	24.04	552.94	20.76	560.49	15.74	629.49	11.24	449.57	12.45	498.13
North	L0-L1	253	3.87	139.26	6.45	232.10	19.65	294.80	12.86	295.81	10.99	296.68	7.76	310.55	5.94	237.44	7.53	301.32
North	L1-L2	254	3.10	111.62	5.17	186.04	11.36	170.41	7.62	175.32	6.58	177.57	5.36	214.59	4.25	169.94	5.42	216.91
North	L2-L3	255	2.05	73.85	3.42	123.08	7.55	113.29	5.04	115.88	4.36	117.63	3.55	142.10	2.96	118.35	3.52	140.64
North	L3-L4	256	1.95	70.36	3.26	117.27	7.21	108.22	4.78	109.88	4.15	112.09	3.40	136.11	2.89	115.78	3.31	132.49
North	L4-L5	257	1.92	69.10	3.20	115.17	7.14	107.03	4.76	109.47	4.10	110.62	3.35	134.19	2.89	115.49	3.30	131.84
North	L5-L6	258	1.96	70.54	3.27	117.56	7.40	111.07	4.91	112.96	4.26	115.07	3.43	137.21	2.85	114.15	3.32	132.70
North	L6-L7	259	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L7-L8	260	2.09	75.17	3.48	125.28	8.34	125.16	5.52	126.97	4.78	129.02	3.75	149.88	3.20	128.16	3.48	139.10
North	L8-L9	261	1.48	53.43	2.47	89.05	6.48	97.15	4.29	98.59	3.71	100.20	2.88	115.23	2.37	95.00	2.65	106.09
North	L9-L10	262	1.45	52.27	2.42	87.11	7.03	105.45	4.65	107.00	4.01	108.24	3.06	122.22	2.46	98.26	2.72	108.79
North	L10-L11	263	1.43	51.53	2.39	85.88	6.93	103.96	4.59	105.49	3.95	106.71	3.01	120.49	2.42	96.87	2.68	107.25
North	L11-L12	264	1.78	64.08	2.97	106.79	6.86	102.84	4.53	104.30	3.91	105.55	2.97	118.72	2.61	104.21	2.94	117.46
North	L12-L13	265	1.78	64.21	2.97	107.01	6.81	102.10	4.50	103.53	3.88	104.78	2.94	117.59	2.57	102.90	3.24	129.47
North	L13-L14	266	2.09	75.33	3.49	125.55	7.98	119.76	5.28	121.51	4.56	123.01	3.45	138.07	3.02	120.65	4.14	165.53
North	L14-L15	267	2.40	86.33	4.00	143.89	9.79	146.91	6.48	149.12	5.59	151.05	4.28	171.01	3.74	149.68	4.39	175.52
North	L15-L16	268	2.39	86.19	3.99	143.65	10.71	160.71	7.08	162.93	6.09	164.55	4.70	188.01	3.88	155.01	4.20	168.00
North	L16-L17	269	2.20	79.18	3.67	131.96	8.24	123.54	5.47	125.79	4.71	127.28	3.70	148.16	3.37	135.00	3.74	149.49
North	L17-L18	270	1.73	62.35	2.89	103.91	6.49	97.28	4.31	99.06	3.71	100.23	2.92	116.67	2.46	98.47	2.76	110.20
North	L18-L19	271	1.27	45.63	2.11	76.04	5.93	88.89	3.94	90.51	3.39	91.58	2.65	105.99	1.93	77.32	2.13	85.17
North	L19-L20	272	0.90	32.42	1.50	54.03	5.68	85.21	3.75	86.23	3.22	86.93	2.43	97.06	1.69	67.74	1.88	75.29
North	L20-L21	273	1.24	44.66	2.07	74.43	4.96	74.37	3.29	75.71	2.84	76.61	2.23	89.01	1.92	76.73	2.10	84.03
North	L21-L22	274	1.61	58.09	2.69	96.82	5.97	89.61	4.01	92.20	3.44	92.89	2.74	109.75	2.37	94.89	2.74	109.59
North	L22-L23	275	2.53	91.24	4.22	152.07	9.34	140.05	6.26	144.01	5.49	148.21	4.44	177.60	3.76	150.52	4.38	175.25
North	L23-L24	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L24-L25	277	2.50	89.98	4.17	149.97	8.91	133.66	6.04	138.98	5.28	142.46	4.60	184.09	3.98	159.32	4.60	184.00
North	L25-L26	278	1.65	59.32	2.75	98.86	5.93	88.97	4.00	91.94	3.46	93.41	3.09	123.56	2.73	109.31	3.09	123.65
North	L26-L27	279	3.40	122.41	5.67	204.02	12.51	187.60	8.36	192.24	7.32	197.60	6.49	259.59	5.53	221.35	6.54	261.68
North	L27-L28	280	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L28-L29	281	3.97	142.95	6.62	238.25	14.86	222.93	9.88	227.32	8.60	232.24	7.16	286.57	6.08	243.37	7.22	288.61
North	L29-L30	282	2.11	76.13	3.52	126.89	8.04	120.57	5.35	122.96	4.65	125.67	3.76	150.30	3.17	126.98	3.78	151.21
North	L30-L31	283	2.08	74.96	3.47	124.93	7.91	118.71	5.26	121.06	4.58	123.73	3.70	147.98	3.13	125.02	3.72	148.87
North	L31-L32	284	2.45	88.37	4.09	147.29	9.20	137.96	6.12	140.66	5.32	143.69	4.27	170.89	3.74	149.53	4.26	170.36
North	L32-L33	285	2.55	91.64	4.24	152.74	10.76	161.42	7.18	165.16	6.17	166.54	4.78	191.09	4.05	161.98	4.37	174.79
North	L33-L34	286	1.62	58.19	2.69	96.98	7.26	108.90	4.81	110.57	4.14	111.81	3.18	127.28	2.70	108.01	2.88	115.34
North	L34-L35	287	1.95	70.26	3.25	117.09	9.17	137.56	6.05	139.04	5.22	140.94	4.02	160.69	3.34	133.79	3.62	144.93
North	L35-L36	288	2.30	82.90	3.84	138.16	10.33	154.89	6.84	157.22	5.88	158.71	4.53	181.09	3.74	149.40	4.05	161.84
North	L36-L37	289	1.80	64.91	3.01	108.18	7.79	116.90	5.15	118.50	4.43	119.53	3.38	135.05	2.79	111.70	3.01	120.49
North	L37-L38	290	2.81	101.02	4.68	168.36	11.81	177.12	7.80	179.48	6.72	181.42	5.18	207.09	4.28	171.12	4.70	188.01
North	L38-L39	291	1.88	67.67	3.13	112.79	10.39	155.82	6.91	158.93	5.94	160.34	4.54	181.66	3.17	127.00	3.49	139.54
North	L39-L40	292	1.03	37.11	1.72	61.85	7.45	111.78	4.92	113.13	4.21	113.74	3.11	124.38	2.09	83.52	2.35	93.86
North	L40-L41	293	1.92	69.26	3.21	115.44	7.65	114.81	5.10	117.41	4.39	118.59	3.40	136.07	2.87	114.85	3.19	127.66
North	L41-L42	294	4.21	151.65	7.02	252.75	15.80	236.99	10.53	242.22	9.19	248.04	7.16	286.24	5.93	237.09	6.86	274.50
North	L42-L43	295	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L43-L44	296	3.50	126.15	5.84	210.26	12.80	191.93	8.61	197.99	7.52	203.13	6.21	248.27	5.29	211.44	6.07	242.76
North	L44-L45	297	1.68	60.43	2.80	100.72	6.12	91.81	4.11	94.50	3.55	95.73	2.97	118.73	2.60	104.17	2.95	118.03
North	L45-L46	298	1.68	60.61	2.81	101.02	6.21	93.18	4.15	95.34	3.61	97.43	2.99	119.70	2.62	104.85	2.97	118.96
North	L46-L47	299	3.27	117.76	5.45	196.26	12.28	184.27	8.15	187.54	7.09	191.45	5.86	234.38	4.94	197.45	5.70	227.99
North	L47-L48	300	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L48-L49	301	4.02	144.54	6.69	240.90	15.33	229.91	10.13	233.05	8.76	236.62	6.87	274.68	5.61	224.29	6.45	258.10
North	L49-L50	302	1.82	65.59	3.04	109.32	8.16	122.33	5.39	123.89	4.63	124.93	3.57	142.66	2.82	112.67	3.12	124.64
North	L50-L51	303	1.78	64.04	2.96	106.73	7.73	115.95	5.11	117.43	4.39	118.41	3.38	135.22	2.67	106.79	2.95	118.14
North	L51-L52	304	2.75	99.17	4.59	165.29	10.53	157.95	6.95	159.74	5.97	161.16	4.60	183.82	3.93	157.39	4.39	175.48
North	L52-L53	305	2.18	78.34	3.63	130.57	10.19	152.82	6.70	154.17	5.75	155.37	4.33	173.17	3.49	139.66	3.77	150.73
North	L53-L54	306	1.70	61.12	2.83	101.86	8.38	125.76	5.51	126.68	4.73	127.73	3.53	141.28	2.90	116.18	3.05	122.08
North	L54-L55	307	1.72	61.93	2.87	103.22	8.76	131.33	5.74	132.13	4.93	133.24	3.69	147.74	2.94	117.69	3.22	128.82
North	L55-L56	308	2.57	92.48	4.28	154.13	13.44	201.62	8.81	202.73	7.57	204.38	5.70	227.82	4.48	179.14	4.84	193.77
North	L56-L57	309	2.72	97.99	4.54	163.31	13.88	208.16	9.10	209.32	7.81	210.94	5.86	234.48	4.61	184.49	4.96	198.38
North	L57-L58	310	1.78	64.07	2.97	106.79	8.69	130.33	5.70	131.16	4.90	132.21	3.68	147.11	2.90	116.15	3.17	126.83
North	L58-L59	311	1.98	71.41	3.31	119.02	9.29	139.29	6.09	140.14	5.22	141.01	3.87	154.85	3.12	124.68	3.31	132.60
North	L59-L60	312	2.35	84.51	3.91	140.85	8.99	134.87	5.89	135.52	5.08	137.07	3.90	155.90	3.13	125.00	3.49	139.42
North	L60-L61	313	1.28	46.05	2.13	76.74	6.38	95.75	4.18	96.21	3.60	97.31	2.74	109.52	1.86	74.23	2.09	83.47
North	L61-L62	314	**0.66**	**23.85**	**1.10**	**39.74**	4.46	66.89	2.92	67.07	2.50	67.58	1.84	73.76	1.20	47.88	1.33	53.12
North	L62-L63	315	1.43	51.57	2.39	85.96	6.19	92.83	4.05	93.12	3.49	94.24	2.67	106.97	2.25	89.81	2.42	96.74
North	L63-L64	316	1.76	63.33	2.93	105.56	6.90	103.55	4.53	104.22	3.90	105.38	3.03	121.31	2.56	102.29	2.82	112.98
North	L64-L65	317	3.89	140.03	6.48	233.38	14.85	222.78	9.83	226.08	8.44	227.93	6.64	265.69	5.48	219.15	6.38	255.38
North	L65-L66	318	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L66-L67	319	3.37	121.36	5.62	202.26	12.67	190.06	8.39	192.92	7.25	195.68	6.04	241.76	5.08	203.20	5.91	236.27
North	L67-L68	320	1.68	60.39	2.80	100.64	6.28	94.25	4.12	94.68	3.57	96.47	2.97	118.76	2.62	104.67	2.96	118.42
North	L68-L69	321	1.74	62.60	2.90	104.34	6.49	97.29	4.25	97.75	3.68	99.40	3.06	122.49	2.70	107.92	3.05	122.18
North	L69-L70	322	3.56	128.19	5.93	213.66	13.32	199.83	8.85	203.58	7.63	205.99	6.33	253.17	5.30	211.84	6.15	246.09
North	L70-L71	323	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L71-L72	324	4.23	152.14	7.04	253.57	16.13	242.02	10.68	245.58	9.22	248.95	7.32	292.65	5.91	236.48	6.83	273.23
North	L72-L73	325	2.45	88.07	4.08	146.78	10.29	154.34	6.75	155.30	5.82	157.09	4.54	181.75	3.75	149.86	4.19	167.61
North	L73-L74	326	1.57	56.56	2.62	94.27	7.59	113.91	4.97	114.34	4.28	115.60	3.29	131.79	2.63	105.15	2.83	113.37
North	L74-L75	327	1.61	57.85	2.68	96.42	7.76	116.47	5.08	116.90	4.38	118.20	3.37	134.75	2.69	107.54	2.90	115.94
North	L75-L76	328	2.21	79.43	3.68	132.38	8.45	126.73	5.53	127.20	4.76	128.54	3.65	145.94	3.20	127.89	3.51	140.38

Truss	Member	Rating ID	As-Built Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
North	L76-L77	329	2.71	97.69	4.52	162.81	10.40	155.96	6.81	156.53	5.86	158.17	4.48	179.24	3.87	154.69	4.27	170.95
North	L77-L78	330	1.78	64.17	2.97	106.94	10.99	164.89	7.20	165.51	6.18	166.73	4.52	180.91	3.38	135.24	3.60	143.80
North	L78-L79	331	1.71	61.40	2.84	102.33	10.95	164.29	7.17	164.80	6.14	165.88	4.49	179.68	3.28	131.01	3.55	142.05
North	L79-L80	332	1.57	56.66	2.62	94.44	10.46	156.97	6.85	157.46	5.87	158.41	4.28	171.29	3.08	123.11	3.36	134.22
North	L80-L81	333	1.60	57.57	2.67	95.96	10.85	162.80	7.10	163.33	6.08	164.27	4.45	178.12	3.18	127.28	3.43	137.38
North	L81-L82	334	1.63	58.81	2.72	98.01	11.29	169.30	7.38	169.77	6.33	170.80	4.64	185.63	3.27	130.77	3.55	142.03
North	L82-L83	335	1.92	69.15	3.20	115.25	12.95	194.31	8.48	194.99	7.27	196.31	5.32	212.68	3.73	149.21	4.06	162.21
North	L83-L84	336	1.91	68.60	3.18	114.33	12.60	189.05	8.25	189.75	7.08	191.05	5.18	207.01	3.66	146.23	3.97	158.94
North	L84-L85	337	2.54	91.49	4.24	152.48	9.87	148.07	6.46	148.68	5.54	149.55	4.08	163.20	3.49	139.79	3.73	149.11
North	L85-L86	338	2.13	76.81	3.56	128.01	8.44	126.59	5.53	127.11	4.74	127.86	3.49	139.53	2.88	115.05	3.08	123.02
North	L86-L87	339	1.65	59.52	2.76	99.20	8.05	120.82	5.27	121.32	4.52	122.03	3.33	133.17	2.42	96.61	2.63	105.36
North	L87-L88	340	1.37	49.27	2.28	82.12	8.19	122.82	5.36	123.32	4.59	124.05	3.38	135.37	2.21	88.54	2.45	97.96
North	L88-L89	341	1.36	48.83	2.26	81.39	10.12	151.75	6.62	152.36	5.68	153.26	4.18	167.25	2.50	100.09	2.77	110.79
North	L89-L90	342	1.32	47.55	2.20	79.26	11.76	176.34	7.69	176.81	6.58	177.79	4.76	190.31	2.70	107.99	3.03	121.19
North	L90-L91	343	2.20	79.22	3.67	132.03	13.90	208.49	9.09	209.15	7.80	210.49	5.75	230.07	4.00	159.85	4.51	180.42
North	L91-L92	344	1.93	69.40	3.21	115.66	11.52	172.83	7.54	173.32	6.47	174.65	4.78	191.17	3.44	137.79	3.86	154.23
North	L92-L93	345	1.26	45.43	2.10	75.72	7.14	107.03	4.66	107.28	4.01	108.24	2.97	118.86	2.23	89.27	2.49	99.76
North	L93-L94	346	1.30	46.89	2.17	78.14	6.90	103.47	4.52	103.91	3.88	104.78	2.90	116.00	2.24	89.42	2.52	100.92
North	L94-L95	347	1.22	43.77	2.03	72.95	6.01	90.21	3.95	90.85	3.39	91.60	2.57	102.88	2.00	80.00	2.26	90.35
North	L95-L96	348	2.21	79.67	3.69	132.78	11.22	168.28	7.42	170.68	6.35	171.48	4.83	193.19	3.81	152.20	4.23	169.10
North	L96-L97	349	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L97-L98	350	2.11	76.07	3.52	126.78	8.48	127.27	5.62	129.28	4.82	130.09	3.75	149.83	3.05	122.13	3.38	135.24
North	L98-L99	351	1.84	66.10	3.06	110.17	7.25	108.71	4.76	109.45	4.10	110.71	3.21	128.27	2.69	107.79	2.99	119.63
North	L99-L100	352	1.80	64.92	3.01	108.20	7.32	109.78	4.79	110.22	4.13	111.60	3.25	129.84	2.76	110.46	3.03	121.23
North	L100-L101	353	1.77	63.83	2.95	106.38	7.23	108.42	4.74	108.97	4.08	110.27	3.21	128.33	2.73	109.30	3.00	119.96
North	L101-L102	354	1.74	62.53	2.90	104.22	7.07	105.99	4.64	106.67	4.00	107.89	3.12	124.69	2.62	104.93	2.92	116.69
North	L102-L103	355	2.03	73.09	3.38	121.82	8.16	122.37	5.39	123.92	4.66	125.69	3.60	144.19	2.94	117.60	3.25	129.91
North	L103-L104	356	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L104-L105	357	2.79	100.59	4.66	167.65	12.27	184.03	8.08	185.91	6.97	188.19	5.28	211.30	4.13	165.14	4.59	183.69
North	L105-L106	358	2.71	97.43	4.51	162.38	12.90	193.46	8.48	195.11	7.28	196.43	5.49	219.80	4.25	169.89	4.80	192.03
North	L106-L107	359	2.65	95.40	4.42	159.01	13.65	204.71	8.93	205.41	7.67	207.17	5.72	228.96	4.40	175.86	4.93	197.06
North	L107-L108	360	2.55	91.86	4.25	153.11	14.04	210.55	9.18	211.03	7.88	212.70	5.84	233.62	4.36	174.35	4.86	194.42
North	L108-L109	361	2.48	89.33	4.14	148.88	14.44	216.58	9.45	217.38	8.11	218.95	6.00	239.85	4.30	172.03	4.79	191.43
North	L109-L110	362	2.56	92.19	4.27	153.65	15.82	237.27	10.35	238.15	8.89	239.95	6.56	262.51	4.54	181.64	5.08	203.12
North	L110-L111	363	2.24	80.68	3.74	134.47	20.68	310.21	13.52	310.91	11.57	312.41	8.28	331.34	4.73	189.25	5.28	211.22
North	L111-L112	364	1.90	68.28	3.16	113.81	14.96	224.45	9.79	225.24	8.39	226.58	6.10	243.97	3.63	145.21	4.02	160.94
North	L112-L113	365	2.20	79.15	3.66	131.91	13.93	209.02	9.11	209.61	7.81	211.00	5.75	230.18	3.70	148.10	4.09	163.60
North	L113-L114	366	2.51	90.34	4.18	150.57	12.75	191.32	8.34	191.87	7.15	193.14	5.27	210.70	3.79	151.53	4.14	165.46
North	L114-L115	367	3.42	123.15	5.70	205.25	13.89	208.34	9.08	208.93	7.79	210.32	5.74	229.45	4.72	188.82	5.04	201.52
North	L115-L116	368	3.13	112.84	5.22	188.06	14.18	212.64	9.27	213.24	7.95	214.65	5.85	234.16	4.98	199.10	5.31	212.38
North	L116-L117	369	2.19	78.83	3.65	131.38	12.57	188.60	8.24	189.50	7.07	190.94	5.21	208.25	3.71	148.35	4.06	162.43
North	L117-L118	370	1.98	71.12	3.29	118.53	11.71	175.65	7.67	176.39	6.58	177.66	4.85	193.92	3.44	137.77	3.77	150.71
North	L118-L119	371	1.84	66.11	3.06	110.18	11.16	167.47	7.32	168.26	6.27	169.42	4.62	184.95	3.30	131.89	3.61	144.23
North	L119-L120	372	1.93	69.49	3.22	115.82	11.56	173.45	7.57	174.17	6.49	175.32	4.77	190.72	3.44	137.61	3.73	149.37
North	L120-L121	373	2.12	76.32	3.53	127.21	12.51	187.66	8.19	188.42	7.02	189.48	5.12	204.76	3.71	148.44	4.03	161.16
North	L121-L122	374	2.30	82.78	3.83	137.97	13.22	198.30	8.66	199.17	7.42	200.29	5.40	216.16	3.95	158.19	4.34	173.59
North	L122-L123	375	2.31	83.12	3.85	138.53	12.89	193.40	8.45	194.37	7.24	195.46	5.26	210.44	3.95	157.86	4.27	170.85
North	L123-L124	376	2.41	86.71	4.01	144.52	12.84	192.65	8.42	193.75	7.22	195.07	5.27	210.92	3.92	156.62	4.27	170.88
North	L124-L125	377	6.31	227.11	10.51	378.52	30.39	455.90	19.96	459.16	17.16	463.25	12.70	507.92	9.55	381.99	10.58	423.23
North	L125-L126	378	22.87	823.20	38.11	1371.99	178.47	2677.04	116.56	2680.80	99.44	2685.00	69.36	2774.22	42.30	1691.96	46.81	1872.33
North	U0-U1	379	3.08	111.01	5.14	185.01	11.43	171.39	7.65	175.93	6.69	180.56	5.32	212.66	4.52	180.89	5.16	206.30
North	U1-U2	380	1.48	53.18	2.46	88.63	5.45	81.75	3.66	84.15	3.14	84.88	2.54	101.56	2.22	88.75	2.50	99.82
North	U2-U3	381	1.76	63.50	2.94	105.84	6.52	97.73	4.32	99.35	3.75	101.26	3.06	122.42	2.71	108.47	2.99	119.77
North	U3-U4	382	1.33	47.77	2.21	79.61	4.93	73.99	3.29	75.65	2.83	76.46	2.32	92.84	2.05	82.04	2.30	91.89
North	U4-U5	383	1.39	50.09	2.32	83.48	5.20	78.05	3.46	79.60	3.01	81.36	2.43	97.37	2.10	83.88	2.43	97.13
North	U5-U6	384	1.39	50.08	2.32	83.47	5.20	78.04	3.46	79.60	3.01	81.35	2.43	97.36	2.10	83.87	2.43	97.13
North	U6-U7	385	1.92	69.03	3.20	115.06	7.25	108.81	4.81	110.61	4.17	112.67	3.35	133.92	2.80	111.94	3.24	129.64
North	U7-U8	386	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U8-U9	387	2.44	87.77	4.06	146.28	9.79	146.84	6.48	148.94	5.60	151.31	4.37	174.92	3.62	144.90	3.95	158.07
North	U9-U10	388	2.10	75.43	3.49	125.71	9.26	138.86	6.12	140.82	5.30	143.04	4.10	163.81	3.30	131.84	3.62	144.69
North	U10-U11	389	2.25	80.92	3.75	134.86	8.69	130.36	5.75	132.17	4.97	134.14	3.77	150.71	3.30	131.87	3.73	149.36
North	U11-U12	390	2.29	82.51	3.82	137.52	8.74	131.13	5.78	132.98	5.00	134.93	3.80	151.82	3.34	133.41	4.25	169.95
North	U12-U13	391	2.62	94.24	4.36	157.07	9.98	149.67	6.60	151.80	5.70	154.00	4.34	173.50	3.82	152.90	5.28	211.01
North	U13-U14	392	1.93	69.60	3.22	115.99	9.39	140.82	6.19	142.36	5.35	144.34	4.11	164.56	3.43	137.18	3.71	148.24
North	U14-U15	393	1.59	57.32	2.65	95.54	8.06	120.88	5.31	122.23	4.58	123.57	3.54	141.68	2.89	115.77	3.20	128.07
North	U15-U16	394	1.59	57.32	2.65	95.54	8.06	120.88	5.31	122.23	4.58	123.57	3.54	141.68	2.89	115.77	3.20	128.07
North	U16-U17	395	1.76	63.54	2.94	105.90	8.45	126.74	5.60	128.75	4.81	129.83	3.69	147.58	3.05	121.81	3.30	132.00
North	U17-U18	396	2.44	87.99	4.07	146.65	9.85	147.73	6.54	150.43	5.64	152.17	4.42	176.99	3.95	158.02	4.28	171.21
North	U18-U19	397	2.10	75.51	3.50	125.85	7.86	117.91	5.22	120.06	4.50	121.45	3.53	141.22	3.13	125.34	3.55	142.08
North	U19-U20	398	2.20	79.17	3.67	131.96	8.24	123.66	5.47	125.91	4.72	127.35	3.70	148.04	3.26	130.45	3.72	148.83
North	U20-U21	399	2.07	74.63	3.45	124.38	8.06	120.89	5.39	123.86	4.64	125.35	3.71	148.36	3.02	120.98	3.61	144.51
North	U21-U22	400	3.52	126.55	5.86	210.92	13.06	195.89	8.73	200.75	7.58	204.71	6.16	246.59	4.90	196.14	6.11	244.43
North	U22-U23	401	10.74	386.65	17.90	644.42	40.03	600.39	26.50	609.50	22.94	619.39	18.10	724.01	14.26	570.29	19.30	772.12
North	U23-U24	402	1.90	68.42	3.17	114.03	6.78	101.76	4.60	105.80	3.99	107.68	3.41	136.43	2.99	119.66	3.53	141.03
North	U24-U25	403	1.30	46.63	2.16	77.72	4.66	69.85	3.11	71.54	2.71	73.23	2.38	95.09	2.17	86.81	2.41	96.56
North	U25-U26	404	1.30	46.64	2.16	77.73	4.66	69.86	3.11	71.55	2.71	73.24	2.38	95.11	2.17	86.82	2.41	96.58
North	U26-U27	405	1.49	53.57	2.48	89.28	5.37	80.55	3.61	83.14	3.13	84.49	2.75	110.15	2.47	98.63	2.78	111.19
North	U27-U28	406	2.99	107.68	4.98	179.46	11.03	165.41	7.36	169.39	6.44	174.01	5.66	226.57	4.82	192.94	5.69	227.52
North	U28-U29	407	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U29-U30	408	5.35	192.59	8.92	320.99	20.10	301.57	13.35	307.12	11.61	313.48	9.56	382.31	8.01	320.30	9.46	378.45
North	U30-U31	409	3.50	126.10	5.84	210.17	13.15	197.22	8.74	200.94	7.60	205.14	6.09	243.69	5.34	213.41	6.09	243.73
North	U31-U32	410	2.05	73.70	3.41	122.83	9.28	139.26	6.19	142.38	5.32	143.56	4.08	163.11	3.44	137.78	3.71	148.35

Truss	Member	Rating ID	As-Built Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
North	U32-U33	411	1.24	44.55	2.06	74.25	5.81	87.15	3.85	88.58	3.31	89.44	2.54	101.53	2.16	86.31	2.30	91.89
North	U33-U34	412	1.14	40.92	1.89	68.20	5.53	83.02	3.65	83.94	3.15	85.11	2.42	96.84	2.02	80.79	2.18	87.38
North	U34-U35	413	1.11	40.10	1.86	66.83	5.63	84.46	3.71	85.39	3.20	86.33	2.47	98.99	2.02	80.92	2.23	89.37
North	U35-U36	414	1.11	40.10	1.86	66.83	5.63	84.46	3.71	85.39	3.20	86.33	2.47	98.98	2.02	80.92	2.23	89.37
North	U36-U37	415	1.22	43.84	2.03	73.07	5.82	87.37	3.86	88.82	3.32	89.53	2.54	101.59	2.10	83.89	2.27	90.82
North	U37-U38	416	1.53	55.02	2.55	91.70	6.79	101.89	4.50	103.50	3.87	104.58	2.97	119.00	2.47	98.95	2.66	106.42
North	U38-U39	417	3.74	134.59	6.23	224.32	14.92	223.87	9.90	227.74	8.56	231.01	6.65	266.09	5.52	220.82	6.03	241.19
North	U39-U40	418	5.85	210.67	9.75	351.12	22.13	331.95	14.67	337.51	12.66	341.90	9.78	391.07	8.13	325.06	9.40	376.08
North	U40-U41	419	5.80	208.72	9.66	347.87	26.21	393.22	17.34	398.93	14.94	403.27	11.61	464.42	9.12	364.96	10.71	428.41
North	U41-U42	420	16.51	594.44	27.52	990.74	68.82	1032.27	45.64	1049.64	39.47	1065.57	32.50	1300.13	23.61	944.60	31.96	1278.51
North	U42-U43	421	2.90	104.54	4.84	174.24	10.59	158.84	7.13	163.98	6.19	167.22	5.09	203.66	4.21	168.35	5.03	201.38
North	U43-U44	422	1.40	50.29	2.33	83.81	5.11	76.62	3.42	78.77	2.95	79.78	2.46	98.39	2.14	85.58	2.47	98.63
North	U44-U45	423	1.18	42.60	1.97	70.99	4.36	65.41	2.88	66.28	2.50	67.59	2.16	86.25	1.93	77.35	2.14	85.52
North	U45-U46	424	1.18	42.59	1.97	70.98	4.36	65.40	2.88	66.27	2.50	67.58	2.16	86.24	1.93	77.34	2.14	85.51
North	U46-U47	425	1.36	49.01	2.27	81.69	5.02	75.34	3.35	77.10	2.92	78.75	2.42	96.65	2.11	84.45	2.42	96.66
North	U47-U48	426	2.90	104.32	4.83	173.87	10.89	163.38	7.23	166.23	6.28	169.64	5.19	207.61	4.38	175.04	5.07	202.82
North	U48-U49	427	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U49-U50	428	5.98	215.33	9.97	358.88	22.83	342.50	15.09	347.17	13.05	352.48	10.24	409.61	8.46	338.37	9.71	388.21
North	U50-U51	429	5.77	207.61	9.61	346.01	22.04	330.61	14.54	334.49	12.50	337.46	9.62	384.87	8.35	334.06	9.30	371.90
North	U51-U52	430	2.49	89.65	4.15	149.42	12.36	185.37	8.13	187.03	6.98	188.42	5.20	208.14	4.17	166.79	4.49	179.65
North	U52-U53	431	1.21	43.71	2.02	72.86	6.20	92.96	4.07	93.68	3.49	94.34	2.60	104.01	2.14	85.42	2.24	89.72
North	U53-U54	432	1.16	41.89	1.94	69.82	6.09	91.30	3.99	91.88	3.43	92.62	2.56	102.53	2.04	81.73	2.23	89.38
North	U54-U55	433	1.14	40.90	1.89	68.17	6.11	91.58	4.00	92.07	3.44	92.84	2.59	103.41	2.04	81.41	2.20	88.05
North	U55-U56	434	1.31	47.32	2.19	78.87	7.24	108.56	4.75	109.18	4.07	110.01	3.08	123.10	2.45	97.91	2.61	104.29
North	U56-U57	435	1.31	47.32	2.19	78.86	7.24	108.55	4.75	109.18	4.07	110.01	3.08	123.10	2.45	97.91	2.61	104.29
North	U57-U58	436	1.19	43.01	1.99	71.68	6.36	95.42	4.17	95.99	3.58	96.72	2.68	107.22	2.11	84.50	2.27	90.74
North	U58-U59	437	1.34	48.18	2.23	80.29	6.81	102.17	4.47	102.89	3.84	103.69	2.87	114.67	2.26	90.34	2.47	98.81
North	U59-U60	438	1.46	52.59	2.43	87.66	6.99	104.90	4.59	105.66	3.94	106.46	2.95	117.84	2.38	95.27	2.53	101.22
North	U60-U61	439	2.61	93.99	4.35	156.66	10.01	150.20	6.56	150.95	5.65	152.55	4.33	173.21	3.63	145.19	4.21	168.50
North	U61-U62	440	1.94	69.68	3.23	116.14	7.43	111.40	4.87	112.00	4.19	113.10	3.21	128.43	2.65	105.83	3.12	124.77
North	U62-U63	441	4.29	154.27	7.14	257.12	19.88	298.21	13.09	301.04	11.25	303.67	8.76	350.34	6.91	276.38	7.87	314.99
North	U63-U64	442	4.69	168.76	7.81	281.27	21.76	326.37	14.33	329.57	12.32	332.63	9.63	385.34	7.29	291.45	8.40	335.95
North	U64-U65	443	12.80	460.78	21.33	767.96	62.20	933.06	40.85	939.50	35.16	949.33	27.43	1097.30	18.91	756.59	23.48	939.30
North	U65-U66	444	3.02	108.80	5.04	181.33	11.36	170.43	7.50	172.51	6.48	175.08	5.37	214.73	4.36	174.37	5.19	207.49
North	U66-U67	445	1.27	45.70	2.12	76.17	4.76	71.45	3.12	71.76	2.71	73.04	2.23	89.05	1.94	77.62	2.28	91.24
North	U67-U68	446	1.40	50.36	2.33	83.93	5.21	78.15	3.42	78.77	2.96	79.91	2.55	101.87	2.27	90.79	2.57	102.64
North	U68-U69	447	1.40	50.36	2.33	83.94	5.21	78.16	3.43	78.78	2.96	79.92	2.55	101.88	2.27	90.81	2.57	102.66
North	U69-U70	448	1.62	58.23	2.70	97.05	6.04	90.61	3.96	91.03	3.43	92.54	2.84	113.42	2.49	99.58	2.87	114.81
North	U70-U71	449	3.15	113.51	5.25	189.18	11.81	177.14	7.84	180.40	6.76	182.49	5.59	223.45	4.68	187.22	5.42	216.75
North	U71-U72	450	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U72-U73	451	5.56	200.26	9.27	333.77	21.12	316.74	13.97	321.33	12.06	325.68	9.55	382.13	7.91	316.23	9.03	361.20
North	U73-U74	452	4.40	158.29	7.33	263.82	17.97	269.54	11.80	271.34	10.16	274.29	7.91	316.51	6.70	267.84	7.43	297.01
North	U74-U75	453	2.65	95.52	4.42	159.20	10.17	152.48	6.65	152.96	5.73	154.61	4.39	175.62	3.85	154.06	4.24	169.60
North	U75-U76	454	3.42	123.12	5.70	205.21	16.59	248.80	10.85	249.60	9.34	252.28	7.16	286.23	6.23	249.18	6.87	274.76
North	U76-U77	455	1.51	54.32	2.51	90.53	10.16	152.40	6.65	153.05	5.70	154.03	4.16	166.56	3.07	122.87	3.27	130.73
North	U77-U78	456	1.22	43.84	2.03	73.07	8.36	125.46	5.47	125.88	4.69	126.67	3.42	136.66	2.47	98.88	2.68	107.17
North	U78-U79	457	1.20	43.11	2.00	71.84	8.41	126.15	5.50	126.49	4.71	127.27	3.43	137.31	2.46	98.21	2.69	107.56
North	U79-U80	458	1.15	41.52	1.92	69.20	8.24	123.54	5.39	123.89	4.62	124.63	3.37	134.86	2.40	96.14	2.60	104.00
North	U80-U81	459	1.25	45.18	2.09	75.30	9.12	136.76	5.96	137.17	5.11	137.98	3.75	149.88	2.63	105.36	2.86	114.38
North	U81-U82	460	1.22	43.77	2.03	72.94	8.97	134.51	5.87	134.95	5.03	135.75	3.69	147.67	2.57	102.95	2.81	112.35
North	U82-U83	461	1.22	43.76	2.03	72.94	8.97	134.50	5.87	134.94	5.03	135.74	3.69	147.66	2.57	102.95	2.81	112.35
North	U83-U84	462	1.34	48.25	2.23	80.42	9.65	144.72	6.31	145.21	5.41	146.18	3.96	158.23	2.77	110.86	3.01	120.42
North	U84-U85	463	1.49	53.70	2.49	89.50	10.36	155.46	6.78	156.03	5.82	157.03	4.24	169.72	2.99	119.79	3.25	130.19
North	U85-U86	464	2.12	76.45	3.54	127.42	11.68	175.25	7.64	175.75	6.55	176.91	4.82	192.87	4.09	163.67	4.40	175.86
North	U86-U87	465	2.61	94.01	4.35	156.69	10.15	152.23	6.64	152.67	5.69	153.68	4.19	167.54	3.58	143.23	3.82	152.79
North	U87-U88	466	2.40	86.34	4.00	143.91	10.07	150.98	6.58	151.42	5.65	152.42	4.15	166.16	3.54	141.73	3.79	151.58
North	U88-U89	467	2.18	78.32	3.63	130.53	10.69	160.31	6.99	160.78	5.99	161.83	4.41	176.42	3.51	140.31	3.83	153.34
North	U89-U90	468	2.12	76.15	3.53	126.92	12.20	182.99	7.98	183.51	6.84	184.72	5.03	201.22	3.72	148.81	4.11	164.39
North	U90-U91	469	1.87	67.36	3.12	112.27	11.47	172.08	7.50	172.49	6.44	173.76	4.74	189.53	3.31	132.45	3.69	147.72
North	U91-U92	470	1.84	66.16	3.06	110.27	10.59	158.85	6.93	159.30	5.95	160.61	4.40	175.97	3.22	128.79	3.59	143.68
North	U92-U93	471	1.80	64.79	3.00	107.98	9.70	145.45	6.35	146.08	5.45	147.27	4.07	162.79	3.09	123.72	3.48	139.01
North	U93-U94	472	1.75	63.06	2.92	105.10	8.82	132.23	5.79	133.19	4.97	134.27	3.76	150.52	2.89	115.52	3.27	130.95
North	U94-U95	473	2.06	74.20	3.44	123.66	10.52	157.83	6.96	160.04	5.96	160.79	4.52	180.79	3.53	141.38	3.93	157.01
North	U95-U96	474	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U96-U97	475	2.01	72.32	3.35	120.53	8.14	122.10	5.39	124.04	4.62	124.76	3.58	143.27	2.90	116.04	3.20	128.12
North	U97-U98	476	1.55	55.94	2.59	93.24	6.17	92.55	4.05	93.19	3.49	94.23	2.72	108.93	2.27	90.93	2.51	100.50
North	U98-U99	477	1.33	48.04	2.22	80.06	5.43	81.38	3.55	81.68	3.06	82.70	2.40	95.80	2.03	81.12	2.21	88.30
North	U99-U100	478	1.32	47.64	2.21	79.41	5.34	80.10	3.51	80.63	3.02	81.44	2.42	96.84	2.01	80.49	2.28	91.08
North	U100-U101	479	1.32	47.69	2.21	79.49	5.34	80.11	3.51	80.64	3.02	81.45	2.42	96.85	2.01	80.50	2.28	91.09
North	U101-U102	480	1.31	47.03	2.18	78.39	5.29	79.38	3.47	79.86	2.99	80.80	2.35	94.15	1.99	79.63	2.18	87.36
North	U102-U103	481	1.46	52.57	2.43	87.62	5.84	87.61	3.83	88.01	3.30	89.12	2.58	103.01	2.17	86.83	2.38	95.03
North	U103-U104	482	1.85	66.70	3.09	111.17	7.06	105.93	4.67	107.43	4.02	108.48	3.16	126.49	2.59	103.68	2.87	114.63
North	U104-U105	483	16.36	588.91	27.26	981.52	75.09	1126.34	49.26	1132.99	42.32	1142.69	32.27	1290.70	25.65	1026.04	29.19	1167.44
North	U105-U106	484	3.60	129.74	6.01	216.23	16.96	254.39	11.11	255.63	9.52	256.97	7.08	283.13	5.61	224.49	6.36	254.40
North	U106-U107	485	3.43	123.41	5.71	205.68	17.11	256.64	11.23	258.30	9.64	260.28	7.16	286.36	5.67	226.67	6.43	257.31
North	U107-U108	486	3.42	123.24	5.71	205.41	18.36	275.36	12.04	276.86	10.32	278.69	7.65	306.04	5.97	238.82	6.56	262.25
North	U108-U109	487	3.39	121.97	5.65	203.28	19.54	293.15	12.78	294.04	10.97	296.26	8.08	323.40	6.09	243.53	6.66	266.54
North	U109-U110	488	3.49	125.48	5.81	209.13	21.64	324.53	14.14	325.33	12.14	327.69	8.90	355.82	6.41	256.44	7.00	279.93
North	U110-U111	489	3.87	139.45	6.46	232.42	22.24	333.53	14.54	334.50	12.47	336.61	9.13	365.13	6.75	269.93	7.30	291.99
North	U111-U112	490	3.99	143.67	6.65	239.45	19.39	290.90	12.69	291.84	10.88	293.66	7.98	319.11	6.28	251.28	6.78	271.24
North	U112-U113	491	4.61	166.02	7.69	276.70	18.52	277.77	12.12	278.74	10.39	280.46	7.62	304.93	6.50	260.11	6.92	276.74
North	U113-U114	492	4.12	148.15	6.86	246.92	16.63	249.47	10.89	250.37	9.33	251.92	6.85	274.01	5.84	233.79	6.22	248.90

Truss	Member	Rating ID	As-Built Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
North	U114-U115	493	2.12	76.48	3.54	127.47	13.84	207.66	9.07	208.67	7.78	210.07	5.69	227.62	4.04	161.78	4.40	176.20
North	U115-U116	494	1.50	53.83	2.49	89.72	10.17	152.53	6.66	153.25	5.71	154.30	4.18	167.15	2.97	118.86	3.23	129.07
North	U116-U117	495	1.33	47.70	2.21	79.50	8.38	125.77	5.49	126.29	4.71	127.15	3.45	138.18	2.45	98.02	2.67	106.67
North	U117-U118	496	1.19	42.66	1.98	71.10	7.66	114.88	5.02	115.39	4.30	116.14	3.17	126.62	2.24	89.56	2.47	98.86
North	U118-U119	497	1.18	42.65	1.97	71.08	7.67	114.98	5.02	115.49	4.31	116.24	3.17	126.73	2.24	89.63	2.47	98.94
North	U119-U120	498	1.19	42.74	1.98	71.23	7.57	113.62	4.96	114.14	4.26	114.91	3.13	125.22	2.23	89.09	2.42	96.99
North	U120-U121	499	1.26	45.18	2.09	75.31	7.87	118.12	5.16	118.59	4.42	119.32	3.23	129.27	2.33	93.13	2.52	100.64
North	U121-U122	500	1.36	48.81	2.26	81.34	8.37	125.61	5.48	126.10	4.70	126.80	3.41	136.50	2.47	98.63	2.67	106.62
North	U122-U123	501	1.36	48.93	2.27	81.55	8.26	123.83	5.41	124.37	4.63	125.01	3.35	134.09	2.44	97.49	2.66	106.34
North	U123-U124	502	1.46	52.54	2.43	87.56	8.75	131.29	5.73	131.85	4.91	132.54	3.54	141.45	2.61	104.59	2.81	112.56
North	U124-U125	503	1.85	66.46	3.08	110.76	10.89	163.31	7.13	163.98	6.10	164.81	4.37	174.95	3.18	127.04	3.43	137.32
North	U125-U126	504	4.61	165.98	7.68	276.63	28.32	424.83	18.52	426.00	15.84	427.70	11.25	449.91	8.09	323.52	8.79	351.76
South	U0-L0	505	0.75	27.08	1.25	45.14	2.97	44.58	1.99	45.72	1.74	46.94	1.33	53.21	1.12	44.64	1.25	49.95
South	U1-L1	506	1.38	49.73	2.30	82.89	5.55	83.26	3.71	85.42	3.25	87.78	2.57	102.93	2.16	86.54	2.46	98.59
South	U2-L2	507	1.30	46.92	2.17	78.20	4.81	72.11	3.23	74.31	2.83	76.52	2.32	92.91	1.99	79.52	2.29	91.61
South	U3-L3	508	1.31	47.20	2.19	78.67	4.69	70.32	3.18	73.03	2.80	75.49	2.43	97.34	2.15	86.04	2.43	97.05
South	U4-L4	509	3.85	138.51	6.41	230.84	13.31	199.66	9.11	209.54	8.19	221.20	7.81	312.25	7.42	296.80	8.04	321.67
South	U5-L5	510	1.22	43.97	2.04	73.29	3.55	53.27	2.43	55.79	2.22	60.07	2.59	103.44	2.04	81.75	2.59	103.53
South	U6-L6	511	1.09	39.07	1.81	65.11	4.40	65.96	2.91	67.04	2.53	68.27	2.03	81.02	1.69	67.43	1.95	78.19
South	U7-L7	512	1.59	57.36	2.66	95.60	6.07	91.05	4.02	92.38	3.48	93.88	2.72	108.66	2.25	89.87	2.45	98.18
South	U8-L8	513	1.33	47.71	2.21	79.52	6.07	91.01	4.04	92.96	3.53	95.19	2.77	110.67	2.16	86.42	2.42	96.66
South	U9-L9	514	1.56	56.05	2.59	93.42	6.94	104.13	4.63	106.44	4.04	109.11	3.43	137.37	2.50	100.19	2.96	118.38
South	U10-L10	515	1.16	41.76	1.93	69.61	6.15	92.21	4.08	93.76	3.50	94.38	2.62	104.77	2.05	82.16	2.19	87.69
South	U11-L11	516	1.67	60.05	2.78	100.08	6.85	102.74	4.55	104.75	3.96	106.99	3.01	120.58	2.50	99.93	2.73	109.30
South	U12-L12	517	1.35	48.65	2.25	81.08	5.41	81.19	3.61	82.96	3.15	84.95	2.42	96.90	2.04	81.70	2.23	89.19
South	U13-L13	518	1.18	42.56	1.97	70.93	4.97	74.57	3.32	76.38	2.90	78.37	2.27	90.69	1.90	75.84	2.02	80.96
South	U14-L14	519	1.14	40.92	1.89	68.19	5.75	86.21	3.85	88.66	3.39	91.41	2.71	108.34	2.00	80.00	2.32	92.88
South	U15-L15	520	1.25	45.16	2.09	75.26	3.64	54.65	2.49	57.24	2.28	61.65	2.65	106.13	2.09	83.55	2.62	104.62
South	U16-L16	521	1.55	55.71	2.58	92.85	6.55	98.28	4.34	99.93	3.77	101.81	3.03	121.15	2.38	95.11	2.80	111.99
South	U17-L17	522	1.35	48.57	2.25	80.95	5.35	80.23	3.54	81.41	3.06	82.75	2.40	96.15	2.02	80.81	2.21	88.27
South	U18-L18	523	1.36	48.81	2.26	81.35	5.49	82.29	3.63	83.45	3.14	84.76	2.44	97.57	2.02	80.78	2.22	88.63
South	U19-L19	524	1.74	62.79	2.91	104.65	6.96	104.43	4.61	105.96	3.99	107.65	3.10	124.05	2.56	102.56	2.82	112.66
South	U20-L20	525	1.29	46.37	2.15	77.28	6.41	96.18	4.24	97.59	3.65	98.64	2.77	110.69	2.25	89.93	2.41	96.21
South	U21-L21	526	1.52	54.69	2.53	91.15	5.96	89.34	4.05	93.05	3.53	95.34	3.11	124.50	2.42	96.84	2.84	113.42
South	U22-L22	527	1.33	47.81	2.21	79.68	5.38	80.68	3.64	83.80	3.18	85.98	2.56	102.59	2.12	84.65	2.42	96.93
South	U23-L23	528	1.19	42.97	1.99	71.62	4.54	68.09	3.05	70.08	2.67	72.20	2.18	87.18	1.84	73.68	2.14	85.70
South	U24-L24	529	1.16	41.92	1.94	69.87	4.17	62.53	2.82	64.91	2.47	66.71	2.16	86.35	1.87	74.96	2.17	86.79
South	U25-L25	530	1.16	41.94	1.94	69.89	3.38	50.67	2.31	53.11	2.12	57.20	2.47	98.97	1.94	77.64	2.44	97.69
South	U26-L26	531	1.81	65.06	3.01	108.43	6.50	97.48	4.37	100.54	3.86	104.14	3.71	148.45	3.02	120.94	3.77	150.75
South	U27-L27	532	1.28	46.03	2.13	76.72	4.72	70.78	3.15	72.47	2.76	74.41	2.42	96.61	2.06	82.39	2.43	97.06
South	U28-L28	533	1.60	57.68	2.67	96.14	6.01	90.22	4.00	91.92	3.48	93.86	2.87	114.75	2.40	95.97	2.84	113.61
South	U29-L29	534	1.49	53.75	2.49	89.58	5.85	87.78	3.92	90.18	3.44	92.98	2.82	112.65	2.32	92.81	2.69	107.56
South	U30-L30	535	2.14	77.12	3.57	128.54	11.75	176.23	7.81	179.57	6.69	180.70	5.03	201.14	3.88	155.33	4.22	168.75
South	U31-L31	536	1.63	58.66	2.72	97.76	6.69	100.38	4.45	102.46	3.88	104.75	2.96	118.32	2.46	98.37	2.69	107.48
South	U32-L32	537	1.48	53.27	2.47	88.78	5.97	89.51	3.98	91.49	3.47	93.64	2.67	106.74	2.25	90.05	2.46	98.32
South	U33-L33	538	1.58	56.89	2.63	94.81	6.17	92.60	4.13	94.88	3.60	97.32	2.82	112.76	2.39	95.79	2.59	103.62
South	U34-L34	539	1.49	53.75	2.49	89.59	5.92	88.86	3.97	91.42	3.49	94.26	2.80	111.96	2.23	89.24	2.59	103.69
South	U35-L35	540	1.33	47.82	2.21	79.69	3.86	57.92	2.64	60.66	2.42	65.33	2.81	112.56	2.22	88.89	2.89	115.60
South	U36-L36	541	2.01	72.38	3.35	120.63	7.81	117.16	5.18	119.09	4.49	121.27	3.60	144.04	2.96	118.54	3.46	138.49
South	U37-L37	542	1.54	55.42	2.57	92.37	6.11	91.62	4.04	92.94	3.50	94.43	2.74	109.53	2.31	92.30	2.52	100.89
South	U38-L38	543	1.29	46.52	2.15	77.53	5.28	79.19	3.49	80.33	3.02	81.62	2.35	93.97	1.94	77.74	2.13	85.26
South	U39-L39	544	1.58	57.05	2.64	95.09	6.57	98.56	4.35	100.02	3.76	101.65	2.93	117.13	2.42	96.80	2.66	106.26
South	U40-L40	545	2.18	78.35	3.63	130.59	11.65	174.82	7.73	177.68	6.66	179.77	5.10	203.92	3.98	159.01	4.38	175.27
South	U41-L41	546	1.56	56.10	2.60	93.51	6.56	98.43	4.48	103.10	3.90	105.40	3.15	125.89	2.58	103.40	2.85	113.92
South	U42-L42	547	1.32	47.63	2.20	79.38	5.55	83.29	3.70	85.15	3.23	87.23	2.52	100.94	2.09	83.76	2.39	95.42
South	U43-L43	548	1.39	49.93	2.31	83.22	5.31	79.67	3.57	82.17	3.13	84.54	2.57	102.63	2.15	86.16	2.50	100.00
South	U44-L44	549	1.41	50.92	2.36	84.87	5.07	76.01	3.43	78.91	3.02	81.61	2.64	105.69	2.26	90.28	2.57	102.87
South	U45-L45	550	1.44	51.67	2.39	86.11	4.17	62.61	2.85	65.57	2.61	70.53	3.03	121.35	2.39	95.68	3.00	119.84
South	U46-L46	551	1.29	46.35	2.15	77.26	4.73	70.95	3.16	72.71	2.77	74.79	2.44	97.74	2.10	83.80	2.48	99.31
South	U47-L47	552	1.34	48.16	2.23	80.27	5.17	77.60	3.44	79.16	3.00	80.98	2.51	100.31	2.11	84.28	2.48	99.15
South	U48-L48	553	1.47	52.93	2.45	88.22	6.38	95.71	4.21	96.76	3.63	97.94	2.91	116.60	2.43	97.06	2.79	111.51
South	U49-L49	554	1.59	57.24	2.65	95.39	6.89	103.36	4.59	105.54	4.00	108.01	3.27	130.85	2.88	115.37	3.02	120.85
South	U50-L50	555	1.99	71.48	3.31	119.13	12.52	187.79	8.24	189.44	7.08	191.25	5.35	213.85	3.93	157.23	4.37	174.69
South	U51-L51	556	1.92	69.20	3.20	115.34	9.43	141.40	6.20	142.58	5.36	144.76	4.11	164.45	3.32	132.91	3.67	146.85
South	U52-L52	557	1.61	58.08	2.69	96.81	7.74	116.10	5.09	117.14	4.40	118.83	3.38	135.09	2.87	114.86	3.06	122.59
South	U53-L53	558	2.13	76.50	3.54	127.50	9.80	147.05	6.45	148.44	5.58	150.64	4.31	172.45	3.54	141.59	3.90	155.84
South	U54-L54	559	1.54	55.46	2.57	92.43	6.96	104.43	4.59	105.53	3.97	107.22	3.09	123.79	2.58	103.22	2.78	111.36
South	U55-L55	560	1.87	67.21	3.11	112.02	8.09	121.36	5.34	122.88	4.63	125.00	3.69	147.56	3.21	128.58	3.47	138.70
South	U56-L56	561	1.97	70.79	3.28	117.99	5.84	87.55	3.95	90.75	3.58	96.56	4.12	164.65	3.29	131.63	4.09	163.60
South	U57-L57	562	1.50	53.95	2.50	89.91	7.13	106.92	4.71	108.35	4.07	109.85	3.18	127.01	2.53	101.06	2.82	112.95
South	U58-L58	563	1.88	67.60	3.13	112.67	8.56	128.44	5.66	130.08	4.88	131.88	3.79	151.64	3.12	124.76	3.68	147.17
South	U59-L59	564	2.17	78.05	3.61	130.08	10.44	156.64	6.89	158.49	5.95	160.54	4.57	182.72	3.73	149.17	4.23	169.19
South	U60-L60	565	1.68	60.58	2.80	100.96	8.25	123.76	5.44	125.23	4.70	126.99	3.63	145.13	2.99	119.46	3.24	129.60
South	U61-L61	566	1.77	63.59	2.94	105.99	8.62	129.31	5.69	130.97	4.93	132.99	3.84	153.78	3.13	125.23	3.45	137.88
South	U62-L62	567	1.85	66.47	3.08	110.78	9.88	148.24	6.48	149.10	5.58	150.71	4.31	172.42	3.53	141.13	3.91	156.37
South	U63-L63	568	1.71	61.59	2.85	102.66	7.27	108.99	4.80	110.38	4.16	112.30	3.63	145.24	2.76	110.23	3.67	146.88
South	U64-L64	569	1.62	58.35	2.70	97.25	7.15	107.18	4.72	108.54	4.09	110.41	3.29	131.69	2.66	106.48	3.00	119.82
South	U65-L65	570	1.34	48.37	2.24	80.61	5.73	85.98	3.79	87.16	3.25	87.84	2.58	103.08	2.12	84.68	2.43	97.17
South	U66-L66	571	1.36	48.80	2.26	81.33	5.24	78.61	3.46	79.69	2.99	80.71	2.49	99.66	2.06	82.54	2.40	96.02
South	U67-L67	572	1.46	52.64	2.44	87.74	5.46	81.87	3.61	82.95	3.13	84.41	2.78	111.04	2.34	93.48	2.73	109.33
South	U68-L68	573	1.91	68.67	3.18	114.44	5.72	85.80	3.83	88.16	3.46	93.29	4.00	159.87	3.16	126.55	3.99	159.46
South	U69-L69	574	1.33	47.75	2.21	79.59	4.89	73.32	3.26	74.97	2.82	76.15	2.46	98.28	2.11	84.25	2.51	100.57

Truss	Member	Rating ID	As-Built Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
South	U70-L70	575	1.32	47.37	2.19	78.95	4.93	74.02	3.27	75.31	2.83	76.35	2.33	93.28	1.96	78.38	2.32	92.83
South	U71-L71	576	1.72	61.93	2.87	103.21	7.09	106.40	4.69	107.89	4.06	109.58	3.21	128.58	2.66	106.33	3.04	121.40
South	U72-L72	577	1.50	53.89	2.49	89.81	6.46	96.87	4.30	98.92	3.71	100.19	2.96	118.45	2.45	97.83	2.69	107.42
South	U73-L73	578	1.85	66.53	3.08	110.89	7.79	116.91	5.19	119.35	4.48	121.00	3.90	156.00	2.93	117.31	3.46	138.30
South	U74-L74	579	2.03	73.00	3.38	121.66	12.53	187.98	8.21	188.72	7.03	189.77	5.14	205.51	3.69	147.73	4.03	161.37
South	U75-L75	580	1.50	54.10	2.50	90.17	8.79	131.85	5.79	133.23	4.95	133.53	3.64	145.45	2.63	105.39	2.87	114.73
South	U76-L76	581	1.25	44.96	2.08	74.93	7.29	109.31	4.80	110.37	4.10	110.69	3.01	120.58	2.23	89.12	2.40	96.02
South	U77-L77	582	1.66	59.68	2.76	99.47	9.53	142.95	6.27	144.32	5.36	144.73	3.95	158.11	3.00	120.00	3.19	127.64
South	U78-L78	583	1.69	60.85	2.82	101.42	9.43	141.48	6.22	142.95	5.31	143.36	3.93	157.26	2.95	117.94	3.21	128.39
South	U79-L79	584	1.77	63.80	2.95	106.34	9.76	146.39	6.43	147.99	5.49	148.35	4.08	163.38	3.08	123.05	3.35	134.07
South	U80-L80	585	2.52	90.60	4.19	150.99	13.13	196.98	8.68	199.55	7.42	200.26	5.60	223.82	4.25	169.89	4.67	186.88
South	U81-L81	586	2.52	90.78	4.20	151.30	11.69	175.33	7.72	177.48	6.60	178.30	5.02	200.63	4.06	162.37	4.49	179.48
South	U82-L82	587	1.96	70.67	3.27	117.78	5.92	88.74	3.96	91.13	3.57	96.35	4.11	164.23	3.27	130.79	4.11	164.29
South	U83-L83	588	1.22	43.92	2.03	73.20	7.68	115.15	5.05	116.07	4.34	117.30	3.26	130.44	2.14	85.46	2.59	103.59
South	U84-L84	589	1.25	44.90	2.08	74.83	7.49	112.42	4.93	113.33	4.24	114.47	3.16	126.26	2.20	88.14	2.44	97.43
South	U85-L85	590	1.84	66.13	3.06	110.21	10.73	160.94	7.05	162.12	6.06	163.72	4.49	179.77	3.23	129.40	3.52	140.90
South	U86-L86	591	1.54	55.59	2.57	92.65	8.79	131.85	5.78	132.86	4.97	134.14	3.66	146.46	2.71	108.56	2.94	117.57
South	U87-L87	592	1.44	51.69	2.39	86.15	8.29	124.40	5.45	125.37	4.69	126.59	3.46	138.34	2.58	103.29	2.75	110.18
South	U88-L88	593	1.28	46.03	2.13	76.72	7.27	109.08	4.78	110.05	4.12	111.21	3.05	121.97	2.26	90.47	2.44	97.71
South	U89-L89	594	1.75	63.17	2.92	105.29	9.52	142.85	6.27	144.20	5.40	145.70	4.03	161.08	2.99	119.64	3.27	130.83
South	U90-L90	595	3.02	108.70	5.03	181.16	11.71	175.65	7.66	176.28	6.58	177.63	4.88	195.33	4.16	166.46	4.44	177.72
South	U91-L91	596	2.02	72.63	3.36	121.05	7.50	112.57	4.96	114.00	4.30	115.97	3.82	152.76	3.90	156.17	5.19	207.47
South	U92-L92	597	1.55	55.64	2.58	92.74	5.76	86.35	3.80	87.45	3.29	88.93	2.90	115.94	2.49	99.43	2.97	118.77
South	U93-L93	598	1.37	49.21	2.28	82.02	5.93	88.96	3.92	90.11	3.39	91.52	2.95	117.96	2.21	88.32	2.55	102.17
South	U94-L94	599	1.22	44.04	2.04	73.41	6.39	95.91	4.23	97.19	3.64	98.19	2.89	115.72	2.18	87.20	2.39	95.58
South	U95-L95	600	1.14	40.94	1.90	68.23	6.04	90.58	3.98	91.65	3.40	91.85	2.54	101.76	1.92	76.75	2.21	88.49
South	U96-L96	601	2.78	100.11	4.63	166.84	13.71	205.72	9.07	208.62	7.75	209.27	5.90	235.84	4.61	184.20	5.11	204.39
South	U97-L97	602	1.01	36.31	1.68	60.51	4.61	69.08	3.04	70.03	2.61	70.45	2.03	81.04	1.64	65.53	1.82	72.62
South	U98-L98	603	1.10	39.77	1.84	66.29	4.54	68.17	3.01	69.26	2.58	69.78	2.06	82.33	1.70	67.89	1.96	78.46
South	U99-L99	604	1.28	45.99	2.13	76.64	4.83	72.51	3.21	73.91	2.76	74.53	2.28	91.18	1.90	76.13	2.36	94.59
South	U100-L100	605	1.36	48.88	2.26	81.47	4.09	61.36	2.74	63.02	2.47	66.63	2.84	113.62	2.26	90.24	3.55	142.11
South	U101-L101	606	1.65	59.42	2.75	99.03	6.21	93.11	4.11	94.59	3.57	96.42	2.95	118.07	2.54	101.54	3.23	129.35
South	U102-L102	607	1.31	47.09	2.18	78.49	5.18	77.65	3.42	78.69	2.96	79.97	2.35	94.17	1.97	78.68	2.29	91.64
South	U103-L103	608	1.14	41.09	1.90	68.48	5.11	76.69	3.37	77.56	2.91	78.62	2.26	90.22	1.85	73.82	2.03	81.34
South	U104-L104	609	1.29	46.43	2.15	77.39	6.26	93.96	4.12	94.83	3.55	95.97	2.71	108.33	2.13	85.03	2.36	94.40
South	U105-L105	610	1.03	37.14	1.72	61.89	5.49	82.29	3.60	82.88	3.10	83.66	2.31	92.28	1.73	69.32	2.01	80.47
South	U106-L106	611	1.24	44.77	2.07	74.62	6.31	94.58	4.18	96.12	3.61	97.54	2.91	116.48	2.26	90.36	2.47	98.94
South	U107-L107	612	1.29	46.33	2.14	77.22	5.67	85.06	3.77	86.81	3.26	87.92	2.79	111.63	2.10	83.95	2.40	96.09
South	U108-L108	613	1.57	56.56	2.62	94.26	5.79	86.80	3.85	88.61	3.33	89.80	2.92	116.65	2.51	100.51	3.09	123.65
South	U109-L109	614	2.80	100.84	4.67	168.07	10.17	152.57	6.76	155.42	5.86	158.29	5.32	212.71	6.33	253.37	7.90	315.93
South	U110-L110	615	1.73	62.43	2.89	104.05	8.68	130.26	5.69	130.79	4.89	131.97	3.65	145.81	2.80	112.02	3.05	122.19
South	U111-L111	616	1.27	45.89	2.12	76.49	7.07	106.09	4.65	106.90	4.00	108.09	3.00	120.17	2.21	88.50	2.41	96.31
South	U112-L112	617	1.19	42.82	1.98	71.37	6.79	101.79	4.45	102.42	3.83	103.48	2.86	114.22	2.12	84.76	2.26	90.34
South	U113-L113	618	1.44	51.72	2.39	86.20	8.26	123.93	5.41	124.42	4.66	125.70	3.46	138.49	2.61	104.50	2.73	109.32
South	U114-L114	619	1.69	60.86	2.82	101.44	9.94	149.08	6.51	149.66	5.61	151.36	4.20	168.15	3.01	120.39	3.35	134.02
South	U115-L115	620	2.05	73.75	3.41	122.92	13.09	196.40	8.58	197.27	7.39	199.54	5.51	220.56	3.67	146.68	4.10	164.08
South	U116-L116	621	1.54	55.59	2.57	92.66	11.22	168.24	7.36	169.21	6.33	170.89	4.73	189.31	3.21	128.37	3.50	139.95
South	U117-L117	622	1.70	61.12	2.83	101.87	11.90	178.52	7.81	179.70	6.71	181.16	5.05	202.00	3.32	132.61	4.09	163.59
South	U118-L118	623	2.55	91.66	4.24	152.77	7.53	112.99	5.10	117.38	4.62	124.62	5.30	212.02	4.22	168.78	5.30	212.10
South	U119-L119	624	4.19	150.70	6.98	251.16	16.52	247.75	10.86	249.75	9.37	253.01	7.33	293.01	6.27	250.85	7.57	302.66
South	U120-L120	625	3.14	113.01	5.23	188.36	14.96	224.36	9.86	226.82	8.49	229.20	6.43	257.24	6.20	248.12	5.85	233.81
South	U121-L121	626	1.49	53.47	2.48	89.12	8.33	124.89	5.47	125.86	4.71	127.18	3.52	140.93	2.77	110.62	2.99	119.47
South	U122-L122	627	1.57	56.46	2.61	94.10	9.25	138.75	6.08	139.81	5.24	141.42	3.92	156.98	2.99	119.43	3.25	129.94
South	U123-L123	628	2.04	73.41	3.40	122.35	12.16	182.39	8.00	183.89	6.89	186.10	5.18	207.09	4.05	162.11	4.22	168.69
South	U124-L124	629	1.64	59.02	2.73	98.36	9.75	146.30	6.42	147.70	5.54	149.56	4.18	167.09	3.12	124.60	3.37	134.62
South	U125-L125	630	1.74	62.71	2.90	104.52	10.14	152.17	6.68	153.64	5.77	155.69	4.38	175.27	3.18	127.34	3.53	141.08
South	U126-L126	631	2.05	73.93	3.42	123.22	10.93	164.01	7.05	162.07	6.11	165.08	4.54	181.50	3.31	132.60	3.68	147.27
North	U0-L0	632	0.75	27.03	1.25	45.05	**2.97**	**44.49**	**1.98**	**45.62**	**1.73**	**46.84**	**1.33**	**53.10**	**1.11**	**44.55**	**1.25**	**49.84**
North	U1-L1	633	1.37	49.28	2.28	82.14	5.54	83.10	3.71	85.25	3.24	87.61	2.57	102.73	2.16	86.37	2.46	98.40
North	U2-L2	634	1.28	46.13	2.14	76.88	4.80	71.93	3.22	74.12	2.83	76.33	2.32	92.68	1.98	79.33	2.28	91.39
North	U3-L3	635	1.31	47.07	2.18	78.44	4.67	70.12	3.17	72.83	2.79	75.28	2.43	97.06	2.15	85.80	2.42	96.77
North	U4-L4	636	3.84	138.39	6.41	230.65	13.30	199.50	9.10	209.37	8.19	221.02	7.80	312.01	7.41	296.52	8.03	321.39
North	U5-L5	637	1.22	43.89	2.03	73.15	3.54	53.17	2.42	55.69	2.22	59.96	2.58	103.25	2.04	81.60	2.58	103.35
North	U6-L6	638	1.07	38.67	1.79	64.45	4.38	65.73	2.90	66.80	2.52	68.03	2.02	80.74	1.68	67.20	1.95	77.92
North	U7-L7	639	1.59	57.22	2.65	95.37	6.06	90.85	4.01	92.17	3.47	93.66	2.71	108.40	2.24	89.66	2.45	97.96
North	U8-L8	640	1.32	47.41	2.20	79.02	6.05	90.79	4.03	92.73	3.52	94.96	2.76	110.39	2.16	86.21	2.41	96.43
North	U9-L9	641	1.52	54.85	2.54	91.41	6.92	103.83	4.61	106.14	4.03	108.80	3.42	136.99	2.50	99.89	2.95	118.03
North	U10-L10	642	1.06	38.17	1.77	63.61	6.09	91.30	4.04	92.84	3.46	93.45	2.59	103.76	2.03	81.39	2.17	86.89
North	U11-L11	643	1.47	52.85	2.45	88.08	6.81	102.17	4.53	104.17	3.94	106.39	3.00	119.89	2.48	99.34	2.72	108.65
North	U12-L12	644	1.21	43.52	2.01	72.53	5.39	80.80	3.59	82.56	3.13	84.54	2.41	96.43	2.03	81.28	2.22	88.74
North	U13-L13	645	1.08	38.97	1.80	64.95	4.95	74.20	3.30	75.99	2.89	77.97	2.26	90.22	1.89	75.44	2.01	80.53
North	U14-L14	646	1.12	40.17	1.86	66.94	5.73	85.89	3.84	88.32	3.37	91.06	2.70	107.91	1.99	79.69	2.31	92.51
North	U15-L15	647	1.25	45.09	2.09	75.14	3.64	54.57	2.49	57.16	2.28	61.56	2.65	105.97	2.09	83.42	2.61	104.47
North	U16-L16	648	1.40	50.24	2.33	83.73	6.54	98.13	4.34	99.77	3.76	101.65	3.02	120.95	2.37	94.96	2.80	111.81
North	U17-L17	649	1.20	43.05	1.99	71.76	5.33	79.94	3.53	81.11	3.05	82.45	2.39	95.79	2.01	80.50	2.20	87.92
North	U18-L18	650	1.21	43.58	2.02	72.63	5.46	81.92	3.61	83.08	3.13	84.39	2.43	97.12	2.01	80.39	2.21	88.21
North	U19-L19	651	1.58	56.75	2.63	94.58	6.93	103.90	4.58	105.42	3.97	107.10	3.08	123.40	2.55	102.00	2.80	112.04
North	U20-L20	652	1.21	43.72	2.02	72.87	6.35	95.22	4.20	96.61	3.62	97.65	2.74	109.55	2.23	89.05	2.38	95.26
North	U21-L21	653	1.50	53.93	2.50	89.89	5.94	89.09	4.03	92.79	3.52	95.07	3.10	124.15	2.41	96.56	2.83	113.09
North	U22-L22	654	1.32	47.45	2.20	79.09	5.37	80.52	3.64	83.62	3.18	85.80	2.56	102.37	2.11	84.47	2.42	96.72
North	U23-L23	655	1.18	42.49	1.97	70.81	4.53	67.96	3.04	69.96	2.67	72.07	2.18	87.03	1.84	73.57	2.14	85.59
North	U24-L24	656	1.16	41.86	1.94	69.76	4.16	62.43	2.82	64.81	2.47	66.60	2.16	86.23	1.87	74.87	2.17	86.63

Truss	Member	Rating ID	As-Built Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
North	U25-L25	657	1.16	41.89	1.94	69.81	3.37	50.61	2.31	53.04	2.12	57.13	2.47	98.86	1.94	77.55	2.44	97.57
North	U26-L26	658	1.80	64.97	3.01	108.28	6.49	97.34	4.37	100.40	3.85	103.99	3.71	148.23	3.02	120.79	3.76	150.48
North	U27-L27	659	1.28	45.94	2.13	76.56	4.71	70.64	3.14	72.32	2.75	74.26	2.41	96.41	2.06	82.22	2.42	96.87
North	U28-L28	660	1.60	57.65	2.67	96.09	6.01	90.18	4.00	91.89	3.47	93.82	2.87	114.67	2.40	95.91	2.84	113.54
North	U29-L29	661	1.49	53.48	2.48	89.14	5.85	87.76	3.92	90.16	3.44	92.95	2.82	112.62	2.32	92.78	2.69	107.52
North	U30-L30	662	1.98	71.13	3.29	118.55	11.51	172.62	7.65	175.96	6.56	177.10	4.93	197.09	3.80	151.99	4.13	165.04
North	U31-L31	663	1.41	50.61	2.34	84.35	6.53	98.00	4.35	100.02	3.79	102.24	2.88	115.38	2.39	95.72	2.62	104.61
North	U32-L32	664	1.29	46.37	2.15	77.29	5.79	86.88	3.86	88.77	3.36	90.85	2.58	103.39	2.18	87.06	2.38	95.04
North	U33-L33	665	1.38	49.78	2.30	82.96	5.93	88.99	3.96	91.15	3.46	93.47	2.70	108.02	2.29	91.69	2.48	99.07
North	U34-L34	666	1.35	48.43	2.24	80.71	5.57	83.48	3.73	85.83	3.27	88.39	2.62	104.61	2.09	83.47	2.42	96.73
North	U35-L35	667	1.32	47.68	2.21	79.46	3.85	57.75	2.63	60.49	2.41	65.14	2.81	112.23	2.22	88.63	2.88	115.27
North	U36-L36	668	1.79	64.41	2.98	107.34	8.00	120.02	5.30	122.01	4.60	124.27	3.69	147.70	3.02	120.70	3.53	141.05
North	U37-L37	669	1.37	49.16	2.28	81.93	6.14	92.04	4.06	93.37	3.51	94.87	2.75	110.11	2.31	92.58	2.53	101.37
North	U38-L38	670	1.15	41.53	1.92	69.22	5.18	77.73	3.43	78.86	2.97	80.13	2.31	92.23	1.91	76.21	2.09	83.62
North	U39-L39	671	1.41	50.84	2.35	84.73	6.40	96.05	4.24	97.46	3.67	99.06	2.85	114.07	2.35	94.15	2.58	103.38
North	U40-L40	672	2.06	74.06	3.43	123.43	11.20	168.03	7.42	170.74	6.40	172.84	4.90	195.87	3.81	152.34	4.20	168.14
North	U41-L41	673	1.53	55.03	2.55	91.71	6.49	97.42	4.44	102.01	3.86	104.30	3.11	124.24	2.56	102.22	2.80	112.18
North	U42-L42	674	1.29	46.50	2.15	77.49	5.47	82.11	3.65	83.90	3.18	85.89	2.48	99.12	2.06	82.51	2.35	93.85
North	U43-L43	675	1.33	47.92	2.22	79.86	5.22	78.36	3.51	80.70	3.08	83.04	2.52	100.93	2.12	84.67	2.45	97.82
North	U44-L44	676	1.28	45.92	2.13	76.54	4.56	68.45	3.09	71.05	2.72	73.41	2.37	94.79	2.01	80.33	2.34	93.43
North	U45-L45	677	1.33	47.75	2.21	79.59	3.86	57.89	2.64	60.63	2.41	65.19	2.81	112.35	2.21	88.42	2.77	110.91
North	U46-L46	678	1.19	42.88	1.99	71.46	4.39	65.91	2.93	67.43	2.56	69.24	2.25	90.07	1.93	77.26	2.28	91.33
North	U47-L47	679	1.27	45.70	2.12	76.17	4.77	71.61	3.17	72.85	2.75	74.33	2.27	90.88	1.91	76.57	2.22	88.83
North	U48-L48	680	1.33	47.99	2.22	79.98	5.33	79.90	3.52	81.04	3.05	82.30	2.39	95.61	1.98	79.17	2.27	90.75
North	U49-L49	681	1.49	53.62	2.48	89.37	6.23	93.41	4.13	95.01	3.60	97.17	2.95	117.98	2.40	95.92	2.63	105.30
North	U50-L50	682	1.83	66.03	3.06	110.05	11.28	169.21	7.41	170.39	6.34	171.26	4.63	185.29	3.42	136.85	3.72	148.88
North	U51-L51	683	1.32	47.42	2.20	79.03	6.66	99.95	4.39	100.86	3.77	101.81	2.79	111.41	2.21	88.34	2.38	95.07
North	U52-L52	684	1.15	41.58	1.92	69.30	5.70	85.56	3.76	86.39	3.23	87.28	2.41	96.35	2.01	80.29	2.11	84.43
North	U53-L53	685	1.46	52.45	2.43	87.41	6.97	104.61	4.59	105.68	3.96	106.89	2.98	119.32	2.46	98.21	2.66	106.60
North	U54-L54	686	1.51	54.42	2.52	90.70	6.80	102.03	4.49	103.22	3.87	104.58	2.97	118.63	2.44	97.67	2.65	106.15
North	U55-L55	687	1.31	46.98	2.18	78.31	5.40	80.97	3.57	82.06	3.09	83.34	2.41	96.31	2.07	82.74	2.21	88.31
North	U56-L56	688	1.60	57.58	2.67	95.97	4.75	71.26	3.22	73.98	2.91	78.46	3.34	133.63	2.67	106.64	3.32	132.89
North	U57-L57	689	1.06	38.03	1.76	63.38	4.95	74.23	3.26	75.07	2.81	75.93	2.19	87.65	1.82	72.96	1.99	79.74
North	U58-L58	690	1.46	52.64	2.44	87.73	6.93	103.92	4.56	104.83	3.92	105.88	2.99	119.72	2.47	98.72	2.78	111.27
North	U59-L59	691	1.44	51.86	2.40	86.43	7.09	106.33	4.66	107.22	4.00	108.12	3.01	120.32	2.48	99.07	2.72	108.91
North	U60-L60	692	1.27	45.79	2.12	76.32	6.18	92.74	4.07	93.52	3.49	94.34	2.61	104.51	2.17	86.63	2.28	91.11
North	U61-L61	693	1.52	54.64	2.53	91.07	7.14	107.11	4.69	107.95	4.03	108.92	3.02	120.86	2.42	96.76	2.59	103.68
North	U62-L62	694	1.92	69.23	3.21	115.39	11.05	165.70	7.23	166.28	6.20	167.49	4.59	183.40	3.68	147.38	4.00	160.13
North	U63-L63	695	1.78	64.24	2.97	107.07	7.72	115.87	5.11	117.60	4.44	119.80	3.88	155.24	2.94	117.47	3.79	151.51
North	U64-L64	696	1.49	53.60	2.48	89.34	6.53	97.93	4.32	99.38	3.75	101.19	3.01	120.31	2.44	97.62	2.72	108.67
North	U65-L65	697	1.32	47.66	2.21	79.43	5.61	84.20	3.72	85.51	3.19	86.16	2.52	100.86	2.08	83.07	2.37	94.93
North	U66-L66	698	1.20	43.14	2.00	71.90	5.14	77.10	3.41	78.32	2.94	79.40	2.45	97.83	2.03	81.15	2.35	94.09
North	U67-L67	699	1.43	51.65	2.39	86.08	5.31	79.65	3.53	81.18	3.06	82.56	2.71	108.26	2.29	91.51	2.67	106.60
North	U68-L68	700	1.90	68.48	3.17	114.14	5.70	85.56	3.83	88.12	3.44	93.00	3.96	158.26	3.17	126.64	4.01	160.48
North	U69-L69	701	1.35	48.45	2.24	80.74	4.95	74.32	3.30	76.01	2.85	77.05	2.49	99.58	2.13	85.35	2.54	101.53
North	U70-L70	702	1.29	46.32	2.14	77.20	4.96	74.46	3.30	75.82	2.84	76.70	2.35	93.80	1.96	78.55	2.27	90.95
North	U71-L71	703	1.73	62.19	2.88	103.66	7.12	106.76	4.71	108.32	4.07	109.78	3.22	128.87	2.67	106.65	3.05	121.85
North	U72-L72	704	1.45	52.14	2.41	86.90	6.47	97.01	4.29	98.77	3.71	100.18	2.96	118.42	2.43	97.37	2.69	107.44
North	U73-L73	705	1.81	65.33	3.02	108.89	7.80	117.01	5.18	119.10	4.48	120.91	3.90	156.00	2.93	117.21	3.46	138.32
North	U74-L74	706	1.85	66.72	3.09	111.19	12.24	183.64	8.02	184.50	6.88	185.67	5.02	200.85	3.58	143.37	3.94	157.41
North	U75-L75	707	1.31	47.32	2.19	78.87	8.67	130.07	5.71	131.42	4.89	131.98	3.58	143.30	2.59	103.55	2.82	112.73
North	U76-L76	708	1.12	40.27	1.86	67.12	7.26	108.86	4.78	110.05	4.09	110.50	3.00	119.98	2.22	88.88	2.38	95.30
North	U77-L77	709	1.49	53.48	2.48	89.13	9.46	141.94	6.24	143.48	5.34	144.09	3.92	156.85	2.96	118.49	3.16	126.31
North	U78-L78	710	1.52	54.74	2.53	91.23	9.35	140.22	6.17	141.83	5.28	142.51	3.89	155.73	2.93	117.06	3.17	126.84
North	U79-L79	711	1.59	57.27	2.65	95.45	9.67	145.01	6.38	146.66	5.46	147.48	4.04	161.72	3.05	121.98	3.32	133.00
North	U80-L80	712	2.35	84.70	3.92	141.17	13.02	195.32	8.60	197.84	7.38	199.24	5.54	221.56	4.21	168.25	4.63	185.30
North	U81-L81	713	2.48	89.17	4.13	148.62	11.58	173.69	7.64	175.69	6.57	177.31	4.96	198.47	4.01	160.45	4.44	177.67
North	U82-L82	714	1.97	70.79	3.28	117.98	5.92	88.85	3.98	91.48	3.57	96.47	4.08	163.30	3.26	130.53	4.10	163.84
North	U83-L83	715	1.13	40.74	1.89	67.91	7.73	115.99	5.09	117.01	4.38	118.29	3.29	131.56	2.17	86.78	2.59	103.69
North	U84-L84	716	1.11	39.97	1.85	66.61	7.54	113.03	4.96	114.00	4.27	115.18	3.17	126.89	2.23	89.21	2.45	98.01
North	U85-L85	717	1.61	57.79	2.68	96.32	10.72	160.82	7.05	162.20	6.06	163.71	4.49	179.67	3.24	129.67	3.51	140.40
North	U86-L86	718	1.38	49.50	2.29	82.51	8.77	131.54	5.77	132.61	4.96	133.90	3.65	146.06	2.69	107.72	2.92	116.70
North	U87-L87	719	1.32	47.44	2.20	79.06	8.25	123.76	5.43	124.79	4.67	126.01	3.44	137.51	2.57	102.82	2.73	109.06
North	U88-L88	720	1.20	43.24	2.00	72.06	7.21	108.21	4.75	109.21	4.08	110.24	3.02	120.87	2.23	89.08	2.41	96.44
North	U89-L89	721	1.70	61.08	2.83	101.79	9.42	141.27	6.20	142.67	5.33	144.00	3.98	159.15	2.95	117.81	3.22	128.67
North	U90-L90	722	2.91	104.91	4.86	174.85	11.29	169.40	7.39	170.01	6.35	171.40	4.71	188.40	3.98	159.01	4.27	170.67
North	U91-L91	723	2.05	73.72	3.41	122.87	7.58	113.73	5.02	115.43	4.35	117.54	3.86	154.46	3.95	157.86	5.32	212.96
North	U92-L92	724	1.57	56.43	2.61	94.05	5.81	87.19	3.85	88.49	3.34	90.08	2.93	117.08	2.51	100.50	2.97	118.89
North	U93-L93	725	1.39	50.08	2.32	83.46	5.97	89.60	3.95	90.95	3.42	92.47	2.97	118.87	2.24	89.75	2.57	102.63
North	U94-L94	726	1.24	44.71	2.07	74.52	6.46	96.90	4.28	98.38	3.68	99.39	2.93	117.01	2.19	87.55	2.42	96.65
North	U95-L95	727	1.12	40.31	1.87	67.18	6.10	91.57	4.02	92.55	3.44	93.01	2.57	102.84	1.95	77.84	2.24	89.67
North	U96-L96	728	2.41	86.60	4.01	144.34	13.81	207.13	9.13	210.04	7.82	211.02	5.93	237.30	4.64	185.57	5.15	206.08
North	U97-L97	729	1.06	38.23	1.77	63.71	4.79	71.91	3.18	73.05	2.72	73.47	2.11	84.33	1.71	68.28	1.88	75.38
North	U98-L98	730	1.24	44.55	2.06	74.25	4.78	71.69	3.17	73.00	2.72	73.52	2.16	86.52	1.78	71.34	2.07	82.67
North	U99-L99	731	1.39	49.90	2.31	83.16	5.22	78.24	3.48	79.99	2.99	80.61	2.46	98.28	2.05	82.12	2.59	103.64
North	U100-L100	732	1.34	48.36	2.24	80.60	4.04	60.66	2.72	62.46	2.44	65.87	2.79	111.60	2.24	89.49	3.60	144.02
North	U101-L101	733	1.47	52.89	2.45	88.14	5.52	82.81	3.66	84.14	3.18	85.75	2.61	104.39	2.23	89.21	2.84	113.74
North	U102-L102	734	1.23	44.39	2.06	73.99	4.91	73.65	3.24	74.63	2.81	75.83	2.22	88.98	1.85	74.06	2.17	86.96
North	U103-L103	735	1.08	39.02	1.81	65.04	4.90	73.44	3.23	74.28	2.79	75.30	2.15	86.13	1.76	70.36	1.94	77.43
North	U104-L104	736	1.61	57.79	2.68	96.32	7.64	114.56	5.03	115.76	4.34	117.10	3.30	131.97	2.58	103.39	2.88	115.18
North	U105-L105	737	1.22	43.95	2.03	73.26	6.50	97.48	4.27	98.24	3.67	99.17	2.73	109.38	2.05	82.17	2.38	95.30
North	U106-L106	738	1.26	45.33	2.10	75.55	6.51	97.67	4.32	99.27	3.72	100.55	2.99	119.41	2.15	86.09	2.48	99.07

Truss	Member	Rating ID	As-Built Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
North	U107-L107	739	1.41	50.74	2.35	84.57	6.38	95.76	4.24	97.60	3.66	98.81	3.11	124.51	2.34	93.56	2.66	106.31
North	U108-L108	740	2.34	84.39	3.91	140.65	8.65	129.68	5.74	132.04	4.96	133.92	4.32	172.70	3.67	146.83	4.24	169.62
North	U109-L109	741	4.44	159.70	7.39	266.17	16.11	241.62	10.67	245.41	9.27	250.30	8.43	337.23	9.49	379.76	12.70	507.90
North	U110-L110	742	3.02	108.65	5.03	181.09	12.13	182.01	7.94	182.55	6.82	184.06	5.06	202.37	4.28	171.29	4.59	183.67
North	U111-L111	743	1.85	66.59	3.08	110.98	10.37	155.49	6.82	156.82	5.87	158.43	4.35	173.83	3.23	129.16	3.59	143.46
North	U112-L112	744	1.43	51.34	2.38	85.57	8.84	132.60	5.81	133.56	5.00	135.07	3.66	146.46	2.69	107.50	2.96	118.20
North	U113-L113	745	2.07	74.68	3.46	124.47	13.67	205.02	8.98	206.44	7.72	208.41	5.60	223.87	4.16	166.51	4.68	187.06
North	U114-L114	746	1.92	69.21	3.20	115.36	13.29	199.40	8.73	200.85	7.51	202.64	5.42	216.66	4.01	160.59	4.36	174.26
North	U115-L115	747	1.77	63.83	2.96	106.39	12.68	190.21	8.33	191.68	7.15	193.04	5.18	207.22	3.70	148.09	4.08	163.09
North	U116-L116	748	1.29	46.39	2.15	77.31	7.96	119.40	5.24	120.49	4.50	121.49	3.31	132.27	2.39	95.43	2.63	105.39
North	U117-L117	749	1.40	50.43	2.33	84.05	7.99	119.90	5.27	121.17	4.53	122.33	3.39	135.48	2.46	98.31	2.88	115.32
North	U118-L118	750	1.77	63.89	2.96	106.49	5.24	78.62	3.56	81.83	3.22	86.84	3.71	148.58	2.96	118.53	4.80	192.07
North	U119-L119	751	3.81	137.11	6.35	228.52	14.72	220.80	9.67	222.30	8.32	224.60	6.30	252.09	6.15	245.85	7.21	288.30
North	U120-L120	752	2.00	72.08	3.34	120.13	8.21	123.18	5.39	123.98	4.64	125.24	3.47	138.75	3.19	127.44	3.30	131.85
North	U121-L121	753	1.53	55.24	2.56	92.07	7.65	114.81	5.02	115.40	4.31	116.31	3.17	126.89	2.51	100.32	2.71	108.43
North	U122-L122	754	1.63	58.74	2.72	97.90	8.87	133.03	5.81	133.64	4.99	134.60	3.64	145.55	2.76	110.45	3.07	122.96
North	U123-L123	755	1.47	53.10	2.46	88.50	8.45	126.79	5.53	127.21	4.74	127.91	3.42	136.79	2.58	103.31	2.92	116.71
North	U124-L124	756	1.77	63.80	2.95	106.34	10.53	157.95	6.89	158.40	5.89	159.16	4.21	168.45	3.10	123.93	3.37	134.86
North	U125-L125	757	1.59	57.06	2.64	95.10	9.72	145.84	6.36	146.19	5.43	146.74	3.85	153.99	2.78	111.18	3.00	120.20
North	U126-L126	758	2.68	96.66	4.47	161.09	18.00	270.05	11.76	270.58	10.04	271.17	7.00	279.81	4.88	195.15	5.21	208.32
South	U0-L1	759	1.51	54.44	2.52	90.73	6.03	90.46	4.04	92.85	3.53	95.29	2.81	112.21	2.39	95.45	2.72	108.83
South	U1-L2	760	1.57	56.40	2.61	94.00	5.80	87.01	3.90	89.72	3.41	92.12	2.81	112.48	2.43	97.28	2.79	111.42
South	U2-L3	761	1.35	48.49	2.25	80.82	4.81	72.22	3.26	75.00	2.86	77.16	2.51	100.31	2.23	89.19	2.50	100.15
South	U3-L4	762	1.89	68.11	3.15	113.52	6.50	97.52	4.46	102.57	3.94	106.36	3.86	154.22	3.36	134.29	3.88	155.10
South	U4-L5	763	1.72	62.04	2.87	103.40	6.34	95.08	4.24	97.44	3.71	100.14	3.29	131.46	2.94	117.68	3.47	138.82
South	U6-L5	764	1.48	53.39	2.47	88.98	5.54	83.17	3.69	84.84	3.21	86.74	2.68	107.01	2.29	91.48	2.70	107.88
South	U7-L6	765	1.54	55.41	2.57	92.36	6.22	93.37	4.13	94.92	3.58	96.68	2.87	114.90	2.40	96.03	2.78	111.23
South	U8-L7	766	1.66	59.65	2.76	99.41	7.39	110.78	4.89	112.37	4.23	114.16	3.30	131.96	2.73	109.25	2.98	119.22
South	U9-L8	767	1.63	58.65	2.72	97.75	7.17	107.54	4.81	110.74	4.24	114.49	3.40	136.13	2.65	105.89	2.98	119.39
South	U10-L9	768	1.72	61.75	2.86	102.92	6.84	102.65	4.60	105.78	4.05	109.44	3.79	151.58	2.67	106.85	3.32	132.78
South	U10-L11	769	1.87	67.17	3.11	111.95	7.59	113.88	5.05	116.19	4.40	118.76	3.36	134.25	2.78	111.40	3.05	121.95
South	U11-L12	770	1.49	53.56	2.48	89.27	5.93	88.96	3.96	90.97	3.44	93.00	2.66	106.54	2.24	89.70	2.45	97.97
South	U12-L13	771	1.48	53.34	2.47	88.89	5.79	86.92	3.87	89.06	3.38	91.14	2.65	105.82	2.31	92.49	2.45	98.19
South	U13-L14	772	1.24	44.49	2.06	74.15	5.13	76.93	3.44	79.08	3.01	81.23	2.41	96.27	1.94	77.55	2.20	88.07
South	U14-L15	773	1.45	52.25	2.42	87.08	7.04	105.53	4.74	108.95	4.18	112.80	3.47	138.61	2.62	104.97	3.01	120.50
South	U16-L15	774	2.01	72.44	3.35	120.74	8.05	120.71	5.35	123.04	4.66	125.71	3.87	154.89	3.19	127.77	3.94	157.41
South	U17-L16	775	1.49	53.74	2.49	89.56	5.79	86.92	3.85	88.45	3.34	90.15	2.68	107.31	2.26	90.21	2.56	102.28
South	U18-L17	776	1.46	52.71	2.44	87.85	5.91	88.70	3.92	90.05	3.39	91.58	2.67	106.78	2.29	91.51	2.44	97.69
South	U19-L18	777	1.67	60.10	2.78	100.17	6.67	100.02	4.42	101.58	3.83	103.35	3.01	120.27	2.48	99.38	2.74	109.44
South	U20-L19	778	2.78	100.09	4.63	166.82	10.79	161.85	7.15	164.40	6.19	167.22	4.87	194.75	4.05	161.86	4.45	178.12
South	U20-L21	779	2.60	93.46	4.33	155.76	9.16	137.42	6.31	145.09	5.48	147.88	5.30	212.08	4.03	161.25	4.95	198.10
South	U21-L22	780	1.49	53.56	2.48	89.27	5.72	85.87	3.96	91.05	3.43	92.69	2.91	116.57	2.40	95.80	2.75	109.98
South	U22-L23	781	1.50	54.11	2.51	90.18	5.71	85.71	3.84	88.23	3.37	90.89	2.74	109.75	2.32	92.78	2.70	107.90
South	U23-L24	782	1.39	50.17	2.32	83.62	4.99	74.83	3.38	77.68	2.96	79.81	2.58	103.27	2.24	89.75	2.59	103.72
South	U24-L25	783	1.73	62.45	2.89	104.09	5.98	89.70	4.10	94.24	3.61	97.50	3.52	140.81	2.81	112.33	3.57	142.81
South	U26-L25	784	3.03	109.18	5.05	181.97	10.36	155.41	7.07	162.53	6.34	171.16	7.33	293.04	5.20	207.92	7.94	317.48
South	U27-L26	785	1.26	45.42	2.10	75.71	4.53	67.92	3.05	70.09	2.69	72.64	2.56	102.27	2.11	84.34	2.59	103.75
South	U28-L27	786	1.22	43.80	2.03	72.99	4.49	67.30	3.00	68.92	2.62	70.78	2.30	92.08	1.96	78.44	2.31	92.45
South	U29-L28	787	1.52	54.63	2.53	91.05	5.70	85.54	3.79	87.12	3.29	88.92	2.71	108.46	2.27	90.87	2.68	107.36
South	U30-L29	788	1.60	57.53	2.66	95.88	5.98	89.75	4.06	93.28	3.61	97.51	3.05	121.94	2.48	99.38	2.90	116.16
South	U30-L31	789	1.56	56.28	2.61	93.81	6.34	95.17	4.22	97.16	3.68	99.35	2.81	112.34	2.33	93.12	2.55	101.87
South	U31-L32	790	1.67	60.26	2.79	100.43	6.71	100.63	4.47	102.91	3.89	105.08	3.01	120.22	2.53	101.28	2.76	110.57
South	U32-L33	791	1.68	60.39	2.80	100.64	6.65	99.72	4.44	102.21	3.86	104.34	3.03	121.40	2.63	105.27	2.82	112.76
South	U33-L34	792	1.62	58.24	2.70	97.07	6.25	93.82	4.19	96.46	3.66	98.93	2.94	117.42	2.45	97.84	2.77	110.78
South	U34-L35	793	2.30	82.64	3.83	137.74	8.33	124.97	5.62	129.17	4.96	133.93	4.13	165.02	3.44	137.45	4.24	169.66
South	U36-L35	794	1.41	50.88	2.36	84.80	5.29	79.30	3.52	80.89	3.06	82.70	2.55	102.01	2.18	87.39	2.62	105.00
South	U37-L36	795	1.48	53.36	2.47	88.93	5.76	86.46	3.83	87.98	3.32	89.64	2.67	106.82	2.25	90.03	2.55	101.94
South	U38-L37	796	1.58	56.81	2.63	94.69	6.47	97.00	4.28	98.49	3.71	100.17	2.93	117.01	2.48	99.20	2.67	106.63
South	U39-L38	797	1.62	58.29	2.70	97.15	6.52	97.82	4.32	99.33	3.74	101.05	2.93	117.35	2.42	96.93	2.67	106.64
South	U40-L39	798	1.74	62.78	2.91	104.63	6.90	103.45	4.57	105.17	3.97	107.09	3.13	125.20	2.60	104.08	2.87	114.64
South	U40-L41	799	1.63	58.72	2.72	97.87	6.47	97.04	4.50	103.52	3.90	105.37	3.34	133.71	2.72	108.93	3.03	121.36
South	U41-L42	800	1.64	59.17	2.74	98.62	6.90	103.45	4.60	105.77	4.01	108.35	3.13	125.39	2.60	104.04	2.96	118.53
South	U42-L43	801	1.46	52.67	2.44	87.79	5.57	83.61	3.75	86.22	3.28	88.66	2.69	107.66	2.27	90.69	2.63	105.23
South	U43-L44	802	1.37	49.21	2.28	82.02	4.89	73.28	3.31	76.09	2.89	78.07	2.52	100.98	2.17	86.86	2.48	99.33
South	U44-L45	803	1.66	59.84	2.77	99.73	5.72	85.85	3.92	90.09	3.48	93.91	3.43	137.09	2.84	113.45	3.36	134.37
South	U46-L45	804	1.50	53.96	2.50	89.93	5.38	80.64	3.62	83.18	3.19	86.22	3.13	125.01	2.51	100.56	3.25	129.97
South	U47-L46	805	1.34	48.26	2.23	80.44	4.92	73.87	3.29	75.70	2.88	77.87	2.54	101.59	2.17	86.86	2.56	102.48
South	U48-L47	806	1.49	53.78	2.49	89.63	5.81	87.21	3.87	88.96	3.37	91.02	2.82	112.80	2.37	94.93	2.79	111.42
South	U49-L48	807	1.77	63.70	2.95	106.17	7.56	113.39	4.99	114.67	4.30	116.13	3.46	138.59	2.88	115.05	3.30	132.19
South	U50-L49	808	1.57	56.55	2.62	94.25	6.64	99.53	4.44	102.02	3.89	105.13	3.26	130.31	2.87	114.86	3.03	121.15
South	U50-L51	809	1.55	55.80	2.58	92.99	7.46	111.85	4.90	112.78	4.24	114.50	3.24	129.78	2.60	104.07	2.87	114.72
South	U51-L52	810	1.58	57.00	2.64	95.01	7.65	114.77	5.04	115.81	4.35	117.37	3.34	133.78	2.83	113.29	3.03	121.16
South	U52-L53	811	1.54	55.39	2.56	92.32	7.37	110.60	4.86	111.67	4.19	113.13	3.24	129.46	2.74	109.40	3.00	120.01
South	U53-L54	812	1.52	54.64	2.53	91.07	7.00	105.06	4.62	106.19	3.99	107.70	3.11	124.52	2.61	104.23	2.83	113.05
South	U54-L55	813	1.50	53.97	2.50	89.95	6.72	100.82	4.44	102.03	3.84	103.77	3.05	122.05	2.61	104.29	2.80	112.15
South	U55-L56	814	3.89	139.99	6.48	233.31	14.88	223.18	9.84	226.31	8.54	230.63	6.95	278.10	6.12	244.74	7.09	283.65
South	U57-L56	815	1.67	60.08	2.78	100.13	7.26	108.94	4.81	110.65	4.17	112.48	3.34	133.54	2.74	109.75	3.47	138.76
South	U58-L57	816	1.50	54.00	2.50	89.99	6.75	101.20	4.46	102.54	3.85	104.05	3.02	120.91	2.55	102.10	2.84	113.52
South	U59-L58	817	1.58	56.77	2.63	94.61	7.40	111.00	4.89	112.41	4.22	114.04	3.30	131.88	2.74	109.46	3.11	124.39
South	U60-L59	818	1.52	54.81	2.54	91.36	7.38	110.69	4.87	111.98	4.21	113.55	3.25	129.94	2.74	109.58	2.96	118.27
South	U61-L60	819	1.52	54.69	2.53	91.15	7.27	109.04	4.80	110.38	4.15	111.97	3.24	129.40	2.64	105.68	2.91	116.20
South	U62-L61	820	2.21	79.42	3.68	132.36	9.92	148.75	6.56	150.83	5.67	153.21	4.51	180.23	3.71	148.35	4.10	163.93

Truss	Member	Rating ID	As-Built Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
South	U62-L63	821	3.24	116.47	5.39	194.12	11.96	179.34	7.89	181.40	6.90	186.23	6.72	268.76	5.09	203.62	7.21	288.57
South	U63-L64	822	1.55	55.71	2.58	92.85	6.59	98.86	4.35	100.02	3.79	102.45	3.16	126.47	2.55	102.15	2.91	116.49
South	U64-L65	823	1.43	51.51	2.38	85.85	6.10	91.55	4.04	92.81	3.46	93.53	2.74	109.76	2.25	90.18	2.59	103.47
South	U65-L66	824	1.45	52.14	2.41	86.90	5.59	83.83	3.69	84.97	3.19	86.06	2.66	106.29	2.20	88.16	2.56	102.56
South	U66-L67	825	1.31	47.29	2.19	78.81	4.90	73.52	3.23	74.37	2.80	75.70	2.48	99.11	2.10	83.92	2.45	97.81
South	U67-L68	826	2.24	80.46	3.73	134.10	8.13	121.88	5.39	124.03	4.71	127.08	4.71	188.59	3.60	144.02	4.60	184.16
South	U69-L68	827	1.64	59.15	2.74	98.59	5.90	88.54	3.96	91.11	3.44	92.98	3.32	132.84	2.75	110.17	3.50	139.84
South	U70-L69	828	1.26	45.24	2.09	75.40	4.63	69.42	3.08	70.91	2.66	71.87	2.32	92.96	2.00	79.87	2.36	94.56
South	U71-L70	829	1.44	51.94	2.40	86.56	5.42	81.26	3.59	82.68	3.10	83.83	2.56	102.46	2.15	86.14	2.55	102.01
South	U72-L71	830	1.66	59.80	2.77	99.66	6.86	102.85	4.53	104.26	3.92	105.89	3.10	124.17	2.57	102.72	2.93	117.21
South	U73-L72	831	1.49	53.70	2.49	89.51	6.20	93.07	4.11	94.60	3.58	96.78	2.96	118.44	2.44	97.57	2.70	107.84
South	U74-L73	832	3.32	119.51	5.53	199.18	12.14	182.06	8.05	185.21	7.03	189.70	6.89	275.64	5.07	202.60	6.39	255.73
South	U74-L75	833	1.74	62.78	2.91	104.64	10.32	154.76	6.80	156.30	5.80	156.72	4.27	170.74	3.07	122.85	3.36	134.31
South	U75-L76	834	1.45	52.23	2.42	87.05	8.45	126.80	5.56	127.97	4.76	128.44	3.51	140.21	2.59	103.55	2.79	111.79
South	U76-L77	835	1.51	54.50	2.52	90.84	8.83	132.52	5.81	133.62	4.97	134.18	3.67	146.63	2.77	110.69	2.95	117.86
South	U77-L78	836	1.51	54.26	2.51	90.43	8.65	129.81	5.69	130.91	4.87	131.54	3.61	144.56	2.68	107.30	2.94	117.61
South	U78-L79	837	1.70	61.36	2.84	102.27	9.40	141.05	6.19	142.39	5.29	142.95	3.94	157.67	3.01	120.26	3.25	130.01
South	U79-L80	838	1.49	53.53	2.48	89.22	7.85	117.68	5.18	119.09	4.43	119.49	3.33	133.09	2.53	101.29	2.78	111.36
South	U80-L81	839	2.28	81.98	3.80	136.63	10.92	163.78	7.21	165.85	6.17	166.52	4.69	187.61	3.73	149.39	4.12	164.91
South	U81-L82	840	2.47	88.96	4.12	148.27	9.52	142.74	6.26	143.90	5.39	145.48	4.12	164.78	3.38	135.00	3.51	140.58
South	U83-L82	841	1.56	56.14	2.60	93.57	9.09	136.42	5.99	137.76	5.17	139.53	3.94	157.70	2.74	109.66	3.39	135.56
South	U84-L83	842	2.11	76.11	3.52	126.84	12.16	182.41	8.00	184.00	6.89	186.01	5.18	207.30	3.65	145.94	4.38	175.29
South	U85-L84	843	1.50	53.88	2.49	89.80	8.39	125.90	5.52	126.96	4.75	128.29	3.55	141.96	2.66	106.45	2.89	115.80
South	U86-L85	844	1.64	59.17	2.74	98.62	9.23	138.49	6.07	139.63	5.22	141.04	3.87	154.78	2.90	116.19	3.15	125.86
South	U87-L86	845	1.64	59.01	2.73	98.34	9.46	141.94	6.22	143.15	5.36	144.63	3.96	158.49	2.92	116.75	3.17	126.96
South	U88-L87	846	1.54	55.54	2.57	92.57	8.86	132.90	5.83	134.06	5.01	135.36	3.71	148.57	2.77	110.94	2.97	118.98
South	U89-L88	847	1.89	68.20	3.16	113.67	10.41	156.20	6.86	157.74	5.90	159.25	4.41	176.23	3.27	130.78	3.58	143.31
South	U90-L89	848	2.94	105.81	4.90	176.35	11.42	171.33	7.47	171.82	6.41	172.96	4.71	188.59	4.03	161.03	4.30	171.82
South	U90-L91	849	1.93	69.55	3.22	115.91	8.10	121.43	5.30	121.93	4.56	123.00	3.42	136.98	2.85	113.94	3.11	124.29
South	U91-L92	850	4.41	158.67	7.35	264.45	15.91	238.69	10.50	241.49	9.17	247.69	8.92	356.89	9.28	371.34	10.25	410.06
South	U92-L93	851	2.66	95.65	4.43	159.41	9.67	144.99	6.38	146.75	5.56	150.11	5.31	212.53	4.42	176.70	5.25	209.90
South	U93-L94	852	1.55	55.97	2.59	93.28	6.66	99.88	4.39	101.08	3.83	103.29	3.59	143.47	2.69	107.67	3.08	123.00
South	U94-L95	853	1.46	52.58	2.43	87.64	7.46	111.91	4.93	113.41	4.25	114.85	3.27	130.93	2.46	98.51	2.86	114.24
South	U95-L96	854	1.60	57.77	2.67	96.29	7.92	118.77	5.24	120.45	4.47	120.81	3.40	136.11	2.66	106.33	2.95	117.96
South	U96-L97	855	1.54	55.43	2.57	92.39	7.03	105.45	4.65	106.91	3.98	107.55	3.09	123.73	2.50	100.05	2.77	110.88
South	U97-L98	856	1.40	50.41	2.33	84.01	5.77	86.59	3.82	87.95	3.28	88.64	2.61	104.59	2.16	86.25	2.49	99.61
South	U98-L99	857	1.43	51.61	2.39	86.02	5.43	81.39	3.61	82.92	3.10	83.66	2.56	102.37	2.14	85.50	2.64	105.78
South	U99-L100	858	2.12	76.21	3.53	127.01	7.89	118.36	5.27	121.15	4.54	122.59	3.98	159.09	3.41	136.50	4.86	194.53
South	U101-L100	859	2.63	94.63	4.38	157.72	9.71	145.71	6.47	148.75	5.65	152.48	4.95	198.17	4.54	181.59	6.45	258.00
South	U102-L101	860	1.38	49.66	2.30	82.76	5.19	77.81	3.44	79.05	2.98	80.59	2.46	98.51	2.11	84.54	2.67	106.78
South	U103-L102	861	1.52	54.58	2.53	90.96	6.02	90.26	3.98	91.47	3.44	92.97	2.74	109.43	2.28	91.39	2.66	106.37
South	U104-L103	862	1.55	55.68	2.58	92.80	6.93	103.94	4.57	105.12	3.95	106.56	3.06	122.28	2.50	100.04	2.76	110.23
South	U105-L104	863	1.55	55.69	2.58	92.81	7.55	113.18	4.96	114.19	4.28	115.52	3.25	130.12	2.55	102.10	2.84	113.45
South	U106-L105	864	1.50	54.17	2.51	90.28	7.55	113.29	5.03	115.67	4.34	117.15	3.37	134.62	2.52	100.99	2.96	118.25
South	U107-L106	865	1.59	57.33	2.65	95.55	6.87	103.12	4.57	105.06	3.96	107.04	3.65	146.07	2.85	114.05	3.22	128.74
South	U108-L107	866	1.75	62.83	2.91	104.72	6.25	93.70	4.14	95.29	3.61	97.47	3.44	137.71	2.90	116.03	3.42	136.99
South	U109-L108	867	3.55	127.84	5.92	213.07	13.65	204.75	9.00	206.99	7.73	208.59	5.87	234.74	4.62	184.91	5.12	204.96
South	U110-L109	868	2.05	73.94	3.42	123.23	8.83	132.39	5.79	133.17	4.97	134.22	3.73	149.30	2.98	119.26	3.28	131.25
South	U110-L111	869	2.41	86.69	4.01	144.49	13.35	200.31	8.78	201.95	7.56	204.15	5.67	226.78	4.10	164.20	4.44	177.58
South	U111-L112	870	1.40	50.53	2.34	84.22	8.11	121.67	5.33	122.50	4.58	123.69	3.41	136.45	2.53	101.29	2.70	107.87
South	U112-L113	871	0.92	33.01	1.53	55.01	5.36	80.35	3.51	80.77	3.02	81.57	2.24	89.65	1.68	67.36	1.76	70.48
South	U113-L114	872	1.06	38.01	1.76	63.35	6.05	90.77	3.96	91.14	3.41	92.10	2.54	101.59	1.86	74.39	2.01	80.59
South	U114-L115	873	1.34	48.40	2.24	80.67	7.65	114.74	5.01	115.20	4.31	116.46	3.23	129.37	2.45	98.04	2.70	108.18
South	U115-L116	874	1.23	44.34	2.05	73.90	7.46	111.86	4.89	112.42	4.21	113.68	3.16	126.28	2.26	90.46	2.45	98.05
South	U116-L117	875	1.88	67.71	3.13	112.85	12.94	194.13	8.50	195.42	7.30	197.08	5.49	219.69	3.65	145.93	4.49	179.48
South	U117-L118	876	1.93	69.40	3.21	115.67	12.29	184.30	8.07	185.57	6.94	187.29	5.27	210.99	3.79	151.63	4.77	190.62
South	U119-L118	877	2.33	83.75	3.88	139.58	11.79	176.84	7.74	178.07	6.66	179.72	5.10	204.08	4.33	173.04	4.48	179.10
South	U120-L119	878	3.68	132.41	6.13	220.68	14.16	212.43	9.27	213.27	8.01	216.31	6.12	244.70	5.35	214.06	5.80	232.08
South	U121-L120	879	1.51	54.21	2.51	90.34	8.08	121.15	5.32	122.31	4.58	123.62	3.45	137.92	3.09	123.61	3.02	120.97
South	U122-L121	880	1.34	48.24	2.23	80.40	7.95	119.30	5.22	120.12	4.50	121.40	3.36	134.44	2.58	103.17	2.82	112.70
South	U123-L122	881	1.38	49.80	2.31	83.01	8.41	126.14	5.53	127.16	4.76	128.64	3.57	142.71	2.69	107.41	2.94	117.45
South	U124-L123	882	1.69	60.91	2.82	101.52	10.34	155.05	6.80	156.35	5.86	158.21	4.39	175.75	3.40	135.98	3.55	142.09
South	U125-L124	883	1.55	55.67	2.58	92.78	9.27	138.98	6.10	140.34	5.26	142.07	3.97	158.70	2.95	117.96	3.19	127.53
South	U126-L125	884	1.66	59.60	2.76	99.33	9.89	148.40	6.51	149.84	5.62	151.87	4.26	170.55	3.06	122.38	3.39	135.50
North	U0-L1	885	1.50	54.12	2.51	90.20	6.02	90.34	4.03	92.72	3.52	95.17	2.80	112.06	2.38	95.33	2.72	108.71
North	U1-L2	886	1.55	55.87	2.59	93.12	5.79	86.88	3.89	89.57	3.41	91.97	2.81	112.30	2.43	97.13	2.78	111.26
North	U2-L3	887	1.34	48.38	2.24	80.63	4.80	72.05	3.25	74.82	2.85	76.98	2.50	100.07	2.22	88.97	2.50	99.91
North	U3-L4	888	1.89	68.00	3.15	113.34	6.49	97.37	4.45	102.40	3.93	106.19	3.85	153.97	3.35	134.08	3.87	154.86
North	U4-L5	889	1.72	62.00	2.87	103.34	6.33	95.02	4.23	97.38	3.71	100.07	3.28	131.38	2.94	117.60	3.47	138.76
North	U6-L5	890	1.48	53.27	2.47	88.78	5.53	82.99	3.68	84.66	3.21	86.55	2.67	106.77	2.28	91.28	2.69	107.65
North	U7-L6	891	1.52	54.89	2.54	91.48	6.21	93.15	4.12	94.70	3.57	96.46	2.87	114.63	2.40	95.81	2.77	110.98
North	U8-L7	892	1.65	59.22	2.74	98.70	7.37	110.55	4.88	112.13	4.22	113.91	3.29	131.69	2.73	109.02	2.97	118.98
North	U9-L8	893	1.62	58.30	2.70	97.16	7.16	107.33	4.81	110.52	4.23	114.25	3.40	135.86	2.64	105.69	2.98	119.16
North	U10-L9	894	1.67	60.26	2.79	100.44	6.82	102.37	4.59	105.48	4.04	109.14	3.78	151.17	2.66	106.54	3.31	132.39
North	U10-L11	895	1.65	59.55	2.76	99.24	7.55	113.31	5.03	115.60	4.38	118.15	3.34	133.55	2.77	110.78	3.03	121.28
North	U11-L12	896	1.34	48.31	2.24	80.52	5.90	88.56	3.94	90.56	3.43	92.58	2.65	106.04	2.23	89.26	2.44	97.49
North	U12-L13	897	1.36	48.88	2.26	81.47	5.77	86.52	3.85	88.64	3.36	90.72	2.63	105.31	2.30	92.02	2.44	97.70
North	U13-L14	898	1.16	41.92	1.94	69.87	5.10	76.54	3.42	78.68	2.99	80.82	2.39	95.76	1.93	77.13	2.19	87.59
North	U14-L15	899	1.44	51.72	2.39	86.21	7.02	105.24	4.72	108.66	4.17	112.49	3.46	138.22	2.62	104.68	3.00	120.16
North	U16-L15	900	1.88	67.78	3.14	112.97	8.04	120.60	5.34	122.92	4.65	125.59	3.87	154.74	3.19	127.65	3.93	157.23
North	U17-L16	901	1.35	48.74	2.26	81.23	5.77	86.59	3.83	88.11	3.33	89.80	2.67	106.88	2.25	89.83	2.55	101.83
North	U18-L17	902	1.34	48.15	2.23	80.25	5.89	88.32	3.90	89.66	3.38	91.19	2.66	106.31	2.28	91.08	2.43	97.24

Truss	Member	Rating ID	As-Built Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
North	U19-L18	903	1.55	55.93	2.59	93.22	6.64	99.55	4.40	101.10	3.81	102.86	2.99	119.67	2.47	98.86	2.72	108.86
North	U20-L19	904	2.62	94.31	4.37	157.19	10.74	161.07	7.11	163.61	6.16	166.41	4.84	193.76	4.02	160.97	4.43	177.15
North	U20-L21	905	2.54	91.36	4.23	152.26	9.14	137.12	6.29	144.76	5.46	147.54	5.29	211.62	4.02	160.86	4.94	197.62
North	U21-L22	906	1.48	53.18	2.46	88.63	5.71	85.72	3.95	90.90	3.43	92.53	2.91	116.36	2.39	95.63	2.74	109.78
North	U22-L23	907	1.49	53.51	2.48	89.19	5.71	85.58	3.83	88.10	3.36	90.75	2.74	109.60	2.32	92.66	2.69	107.79
North	U23-L24	908	1.39	50.11	2.32	83.51	4.98	74.73	3.37	77.58	2.95	79.70	2.58	103.13	2.24	89.66	2.59	103.55
North	U24-L25	909	1.73	62.44	2.89	104.07	5.98	89.68	4.10	94.22	3.61	97.47	3.52	140.79	2.81	112.35	3.57	142.84
North	U26-L25	910	3.03	109.11	5.05	181.85	10.35	155.31	7.06	162.42	6.34	171.05	7.32	292.85	5.20	207.82	7.92	317.00
North	U27-L26	911	1.26	45.34	2.10	75.56	4.52	67.79	3.04	69.95	2.69	72.51	2.55	102.07	2.10	84.19	2.59	103.56
North	U28-L27	912	1.21	43.70	2.02	72.84	4.48	67.17	2.99	68.78	2.62	70.64	2.30	91.88	1.96	78.28	2.31	92.26
North	U29-L28	913	1.52	54.56	2.53	90.94	5.70	85.44	3.78	87.01	3.29	88.81	2.71	108.33	2.27	90.76	2.68	107.23
North	U30-L29	914	1.58	56.84	2.63	94.74	5.98	89.64	4.05	93.16	3.61	97.38	3.04	121.79	2.48	99.23	2.90	115.96
North	U30-L31	915	1.35	48.48	2.24	80.80	6.18	92.72	4.12	94.65	3.58	96.77	2.73	109.34	2.26	90.44	2.47	98.97
North	U31-L32	916	1.47	52.93	2.45	88.21	6.55	98.27	4.37	100.47	3.80	102.59	2.93	117.20	2.46	98.53	2.69	107.58
North	U32-L33	917	1.48	53.42	2.47	89.03	6.43	96.51	4.30	98.88	3.74	100.93	2.93	117.18	2.53	101.36	2.71	108.57
North	U33-L34	918	1.45	52.17	2.42	86.96	5.96	89.42	4.00	91.89	3.49	94.22	2.79	111.47	2.32	92.82	2.62	104.92
North	U34-L35	919	2.16	77.70	3.60	129.50	7.85	117.76	5.29	121.62	4.67	125.98	3.86	154.55	3.22	128.70	3.95	158.09
North	U36-L35	920	1.34	48.40	2.24	80.67	5.48	82.26	3.65	83.91	3.18	85.79	2.65	105.86	2.25	90.19	2.72	108.86
North	U37-L36	921	1.35	48.52	2.25	80.86	5.81	87.14	3.86	88.68	3.35	90.35	2.69	107.74	2.27	90.60	2.57	102.66
North	U38-L37	922	1.44	51.85	2.40	86.41	6.36	95.39	4.21	96.85	3.65	98.51	2.88	115.05	2.43	97.37	2.62	104.75
North	U39-L38	923	1.48	53.43	2.47	89.05	6.35	95.22	4.20	96.69	3.64	98.36	2.85	114.15	2.35	94.12	2.59	103.60
North	U40-L39	924	1.62	58.44	2.71	97.40	6.64	99.60	4.40	101.24	3.82	103.08	3.01	120.35	2.50	99.84	2.75	109.98
North	U40-L41	925	1.61	57.96	2.68	96.60	6.44	96.55	4.48	103.00	3.88	104.81	3.31	132.59	2.71	108.31	3.00	120.14
North	U41-L42	926	1.61	57.87	2.68	96.45	6.81	102.17	4.54	104.40	3.96	106.88	3.08	123.34	2.57	102.69	2.92	116.78
North	U42-L43	927	1.39	50.19	2.32	83.65	5.46	81.92	3.67	84.39	3.22	86.81	2.64	105.60	2.22	88.74	2.56	102.51
North	U43-L44	928	1.34	48.18	2.23	80.31	4.79	71.78	3.24	74.53	2.83	76.42	2.46	98.60	2.11	84.55	2.44	97.79
North	U44-L45	929	1.51	54.42	2.52	90.70	5.21	78.09	3.57	82.00	3.16	85.22	3.06	122.51	2.60	103.96	3.04	121.76
North	U46-L45	930	1.37	49.25	2.28	82.09	4.91	73.72	3.30	75.98	2.91	78.70	2.86	114.22	2.28	91.26	2.97	118.70
North	U47-L46	931	1.20	43.23	2.00	72.04	4.43	66.45	2.96	67.98	2.59	69.81	2.27	90.84	1.94	77.77	2.29	91.44
North	U48-L47	932	1.36	48.80	2.26	81.33	5.10	76.45	3.38	77.78	2.94	79.36	2.43	97.05	2.05	81.85	2.37	94.81
North	U49-L48	933	1.61	57.87	2.68	96.45	6.51	97.58	4.30	98.92	3.72	100.43	2.92	116.69	2.42	96.65	2.77	110.70
North	U50-L49	934	2.60	93.75	4.34	156.25	9.99	149.79	6.66	153.26	5.89	158.94	5.19	207.53	4.13	165.39	4.65	186.18
North	U50-L51	935	1.44	51.97	2.41	86.61	7.48	112.21	4.93	113.28	4.24	114.36	3.13	125.08	2.47	98.77	2.65	106.20
North	U51-L52	936	1.09	39.16	1.81	65.27	5.31	79.72	3.50	80.50	3.01	81.35	2.25	89.99	1.88	75.03	1.97	78.70
North	U52-L53	937	0.96	34.57	1.60	57.61	4.65	69.75	3.06	70.48	2.64	71.28	1.99	79.55	1.65	66.06	1.78	71.12
North	U53-L54	938	1.05	37.66	1.74	62.77	4.83	72.41	3.19	73.26	2.75	74.21	2.10	84.15	1.72	68.85	1.90	75.85
North	U54-L55	939	1.36	48.98	2.27	81.64	5.93	88.89	3.92	90.10	3.38	91.37	2.64	105.47	2.25	89.85	2.40	95.93
North	U55-L56	940	1.75	63.10	2.92	105.17	6.59	98.92	4.37	100.49	3.79	102.34	3.04	121.75	2.65	105.94	3.04	121.64
North	U57-L56	941	1.38	49.56	2.29	82.59	5.42	81.37	3.59	82.47	3.10	83.63	2.49	99.58	2.13	85.17	2.55	101.93
North	U58-L57	942	1.03	36.97	1.71	61.61	4.70	70.56	3.10	71.23	2.67	72.10	2.08	83.07	1.74	69.75	1.89	75.62
North	U59-L58	943	1.18	42.44	1.96	70.73	5.62	84.25	3.69	84.94	3.18	85.84	2.43	97.25	1.98	79.18	2.23	89.04
North	U60-L59	944	1.25	45.03	2.08	75.05	5.97	89.57	3.92	90.23	3.37	91.10	2.55	101.94	2.09	83.62	2.28	91.28
North	U61-L60	945	1.59	57.20	2.65	95.34	7.19	107.92	4.73	108.79	4.07	109.90	3.07	122.93	2.53	101.10	2.69	107.51
North	U62-L61	946	1.59	57.14	2.65	95.23	6.94	104.16	4.56	104.97	3.93	106.04	2.96	118.55	2.38	95.20	2.56	102.33
North	U62-L63	947	1.94	69.82	3.23	116.37	7.51	112.63	4.97	114.37	4.35	117.43	4.31	172.26	3.21	128.59	4.52	180.84
North	U63-L64	948	1.51	54.32	2.51	90.53	6.47	97.11	4.28	98.47	3.74	100.96	3.11	124.47	2.52	100.73	2.84	113.45
North	U64-L65	949	1.41	50.77	2.35	84.62	5.98	89.67	3.96	91.08	3.40	91.77	2.69	107.43	2.21	88.49	2.53	101.11
North	U65-L66	950	1.28	46.24	2.14	77.07	5.49	82.41	3.64	83.70	3.14	84.86	2.61	104.58	2.17	86.87	2.52	100.72
North	U66-L67	951	1.28	45.98	2.13	76.64	4.78	71.75	3.17	72.96	2.75	74.18	2.42	96.90	2.05	82.19	2.39	95.60
North	U67-L68	952	2.20	79.38	3.67	132.30	7.93	118.92	5.30	121.98	4.62	124.81	4.61	184.31	3.55	142.07	4.48	179.10
North	U69-L68	953	1.68	60.32	2.79	100.54	6.01	90.15	4.04	92.86	3.50	94.48	3.38	135.36	2.81	112.57	3.57	142.94
North	U70-L69	954	1.27	45.71	2.12	76.19	4.67	70.08	3.10	71.38	2.68	72.45	2.34	93.78	2.01	80.53	2.38	95.26
North	U71-L70	955	1.41	50.62	2.34	84.37	5.44	81.60	3.61	83.10	3.11	84.07	2.57	102.85	2.15	86.18	2.49	99.75
North	U72-L71	956	1.67	60.08	2.78	100.14	6.88	103.16	4.55	104.66	3.93	106.07	3.11	124.46	2.57	102.99	2.94	117.65
North	U73-L72	957	1.46	52.39	2.43	87.32	6.24	93.61	4.12	94.86	3.60	97.19	2.97	118.83	2.44	97.46	2.71	108.31
North	U74-L73	958	3.22	115.84	5.36	193.07	12.16	182.38	8.03	184.69	7.02	189.66	6.87	274.97	5.05	201.94	6.39	255.65
North	U74-L75	959	1.53	55.10	2.55	91.84	10.09	151.30	6.65	152.91	5.69	153.55	4.17	166.72	2.99	119.60	3.27	130.73
North	U75-L76	960	1.31	47.09	2.18	78.49	8.41	126.20	5.55	127.58	4.75	128.14	3.49	139.43	2.58	103.13	2.77	110.88
North	U76-L77	961	1.37	49.42	2.29	82.37	8.79	131.90	5.79	133.28	4.96	133.91	3.65	145.83	2.74	109.66	2.93	117.04
North	U77-L78	962	1.37	49.27	2.28	82.12	8.58	128.64	5.65	130.03	4.84	130.72	3.58	143.12	2.66	106.38	2.91	116.26
North	U78-L79	963	1.54	55.60	2.57	92.66	9.31	139.72	6.15	141.42	5.26	142.09	3.90	156.06	2.97	118.72	3.22	128.90
North	U79-L80	964	1.38	49.52	2.29	82.54	7.74	116.17	5.12	117.74	4.39	118.41	3.28	131.28	2.50	99.87	2.75	109.93
North	U80-L81	965	2.21	79.69	3.69	132.81	10.81	162.10	7.14	164.11	6.13	165.45	4.64	185.45	3.69	147.46	4.08	163.01
North	U81-L82	966	2.49	89.59	4.15	149.31	9.57	143.62	6.30	144.85	5.43	146.57	4.15	166.04	3.38	135.29	3.54	141.73
North	U83-L82	967	1.50	53.97	2.50	89.95	9.16	137.42	6.04	138.89	5.21	140.72	3.98	159.08	2.76	110.49	3.45	138.00
North	U84-L83	968	1.91	68.79	3.18	114.64	12.19	182.84	8.03	184.59	6.91	186.58	5.19	207.79	3.69	147.44	4.37	174.68
North	U85-L84	969	1.33	47.85	2.22	79.76	8.41	126.11	5.53	127.27	4.76	128.57	3.55	142.10	2.68	107.15	2.90	115.92
North	U86-L85	970	1.48	53.14	2.46	88.57	9.21	138.08	6.06	139.27	5.21	140.59	3.85	154.07	2.89	115.75	3.12	124.80
North	U87-L86	971	1.52	54.80	2.54	91.33	9.41	141.10	6.19	142.36	5.32	143.72	3.93	157.26	2.88	115.31	3.14	125.52
North	U88-L87	972	1.49	53.73	2.49	89.55	8.79	131.80	5.78	133.00	4.97	134.16	3.68	147.12	2.73	109.36	2.93	117.32
North	U89-L88	973	1.83	65.96	3.05	109.93	10.30	154.53	6.79	156.11	5.83	157.41	4.35	174.07	3.21	128.46	3.52	140.93
North	U90-L89	974	2.85	102.47	4.74	170.78	11.06	165.85	7.24	166.49	6.20	167.50	4.57	182.76	3.92	156.74	4.17	166.97
North	U90-L91	975	1.72	61.80	2.86	103.00	7.75	116.27	5.08	116.90	4.37	117.89	3.28	131.30	2.71	108.27	2.98	119.12
North	U91-L92	976	4.46	160.61	7.44	267.68	16.02	240.25	10.59	243.66	9.27	250.17	9.03	361.32	9.06	362.43	10.06	402.30
North	U92-L93	977	2.68	96.62	4.47	161.03	9.72	145.79	6.43	147.88	5.61	151.44	5.36	214.30	4.49	179.48	5.26	210.39
North	U93-L94	978	1.60	57.70	2.67	96.17	6.74	101.16	4.46	102.60	3.89	104.96	3.64	145.74	2.70	108.12	3.12	124.92
North	U94-L95	979	1.44	52.00	2.41	86.66	7.53	112.92	4.98	114.65	4.30	116.22	3.30	132.14	2.49	99.75	2.89	115.70
North	U95-L96	980	1.39	50.17	2.32	83.61	8.00	120.02	5.29	121.70	4.53	122.27	3.44	137.48	2.69	107.52	2.98	119.40
North	U96-L97	981	1.60	57.69	2.67	96.15	7.23	108.52	4.79	110.24	4.11	110.87	3.18	127.26	2.58	103.06	2.84	113.78
North	U97-L98	982	1.58	56.75	2.63	94.58	6.10	91.54	4.05	93.18	3.48	93.87	2.76	110.48	2.28	91.10	2.64	105.49
North	U98-L99	983	1.57	56.53	2.62	94.21	5.91	88.66	3.94	90.59	3.38	91.34	2.78	111.39	2.33	93.09	2.92	116.90
North	U99-L100	984	2.38	85.57	3.96	142.62	8.80	131.99	5.90	135.66	5.08	137.10	4.43	177.14	3.89	155.72	5.60	224.00

As-Built Truss Load Rating Summary

Truss	Member	Rating ID	HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
North	U101-L100	985	2.44	87.99	4.07	146.66	9.03	135.45	6.01	138.23	5.24	141.61	4.57	182.74	4.10	163.84	5.94	237.63
North	U102-L101	986	1.36	49.00	2.27	81.67	5.12	76.74	3.39	77.97	2.94	79.47	2.42	96.65	2.06	82.51	2.61	104.52
North	U103-L102	987	1.53	55.01	2.55	91.68	6.11	91.60	4.04	92.82	3.49	94.30	2.77	110.62	2.30	92.03	2.70	107.93
North	U104-L103	988	1.59	57.14	2.65	95.23	7.17	107.54	4.73	108.78	4.08	110.27	3.15	126.13	2.58	103.02	2.83	113.37
North	U105-L104	989	2.82	101.67	4.71	169.45	13.65	204.80	8.99	206.87	7.75	209.19	5.88	235.37	4.61	184.22	5.14	205.50
North	U106-L105	990	2.68	96.44	4.46	160.73	13.52	202.85	8.99	206.83	7.75	209.38	5.99	239.79	4.50	179.95	5.27	210.75
North	U107-L106	991	2.62	94.22	4.36	157.03	11.70	175.57	7.76	178.41	6.73	181.84	6.12	244.69	4.32	172.97	5.23	209.12
North	U108-L107	992	2.66	95.85	4.44	159.74	9.59	143.89	6.35	145.95	5.53	149.34	5.21	208.33	4.35	173.91	5.08	203.28
North	U109-L108	993	5.28	190.08	8.80	316.81	20.28	304.22	13.38	307.68	11.47	309.81	8.73	349.09	6.88	275.23	7.64	305.75
North	U110-L109	994	2.93	105.57	4.89	175.94	12.52	187.87	8.21	188.73	7.05	190.33	5.29	211.47	4.26	170.33	4.69	187.50
North	U110-L111	995	3.72	133.97	6.20	223.28	16.88	253.23	11.04	253.93	9.47	255.61	6.97	278.76	5.92	236.91	6.32	252.69
North	U111-L112	996	2.21	79.40	3.68	132.33	12.09	181.28	7.94	182.70	6.84	184.68	5.07	203.00	3.79	151.51	4.18	167.06
North	U112-L113	997	1.27	45.66	2.11	76.09	7.66	114.85	5.03	115.73	4.33	117.01	3.18	127.04	2.38	95.07	2.67	106.65
North	U113-L114	998	1.27	45.68	2.11	76.13	7.95	119.24	5.22	120.17	4.50	121.38	3.28	131.14	2.43	97.32	2.72	108.92
North	U114-L115	999	1.42	51.03	2.36	85.05	9.23	138.46	6.07	139.56	5.21	140.79	3.80	152.10	2.89	115.55	3.11	124.52
North	U115-L116	1000	1.35	48.61	2.25	81.01	8.76	131.40	5.77	132.61	4.96	133.80	3.65	146.01	2.78	111.12	3.02	120.66
North	U116-L117	1001	2.08	74.91	3.47	124.85	11.71	175.70	7.72	177.56	6.64	179.33	4.97	198.71	3.64	145.47	4.26	170.40
North	U117-L118	1002	2.33	83.70	3.88	139.50	11.44	171.61	7.56	173.78	6.52	175.91	4.98	199.35	3.82	152.96	4.60	184.06
North	U119-L118	1003	2.61	93.88	4.35	156.46	10.07	151.01	6.66	153.18	5.75	155.31	4.48	179.11	3.79	151.68	4.07	162.64
North	U120-L119	1004	3.51	126.25	5.84	210.42	13.27	199.01	8.79	202.24	7.60	205.30	5.97	238.85	5.38	215.24	5.97	238.89
North	U121-L120	1005	1.53	54.91	2.54	91.52	6.85	102.75	4.50	103.49	3.87	104.48	2.90	115.88	2.52	100.87	2.64	105.70
North	U122-L121	1006	1.43	51.32	2.38	85.53	7.37	110.48	4.83	111.12	4.15	111.99	3.06	122.34	2.37	94.92	2.57	102.80
North	U123-L122	1007	1.54	55.28	2.56	92.14	8.41	126.17	5.51	126.81	4.73	127.72	3.46	138.35	2.60	104.18	2.90	115.83
North	U124-L123	1008	1.95	70.14	3.25	116.91	11.13	166.88	7.28	167.48	6.24	168.44	4.50	180.14	3.39	135.75	3.81	152.30
North	U125-L124	1009	1.87	67.37	3.12	112.29	10.90	163.44	7.13	163.96	6.10	164.80	4.37	174.78	3.22	128.64	3.50	140.04
North	U126-L125	1010	2.16	77.75	3.60	129.59	13.75	206.19	8.99	206.73	7.69	207.52	5.45	218.03	3.92	156.79	4.26	170.38

Controlling Members

Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
0.66	23.85	1.10	39.74	2.97	44.49	1.98	45.62	1.73	46.84	1.33	53.10	1.11	44.55	1.25	49.84
Truss	**Member**	**Truss**	**Member**	**Truss**	**Member**	**Truss**	**Member**	**Truss**	**Member**	**Truss**	**Member**	**Truss**	**Member**	**Truss**	**Member**
North	L61-L62	North	L61-L62	North	U0-L0	North	U0-L0	North	U0-L0	North	U0-L0	North	U0-L0	North	U0-L0

As-Built Fatigue Summary

Made By: DWC Date: 3/30/2012 Job No.: P402110046

Checked By: ADK Date: 3/30/2012 Sheet No.:

CUY-2-1441 Main Truss Spans - As-Built Fatigue Summary

Redundant? No → f = 1.0 (Calculate SAFE Life per ODOT BDM 402.2.6)

R_s = 1.75

Present ADTT* (T_P) = 160 → T_N = 361 (Future ADTT, assuming growth rate of 1%/year)

Weight Ratios = 1.0 (W_P/W, W_N/W equal to unity per ODOT BDM 402.2.6)

Impact** = 1.15 (Per ODOT BDM 402.2.6)

Y_P = 74 (Present age of the bridge in years)

$Y_{f,MIN}$ = **51 years**

* Based on surveyed 2010 ADTT value of 400, multiplied by F_L of 0.4 for 6 lanes of two-way traffic

** Impact is applied in calculation of stress range, Sr. Do not include in service moment range.

Truss	Member	Rating ID	Service Force Range	Gross Area (in^2)	S_r (ksi)	Cat.	K (Detail Constant)	C (cycles per truck passage)	Y_1 (years)	Y_N (years)	Y_f (years)
South	L0-L1	1	48.27 k	42.42	1.31	D	6	1.00	3124	1384	**1351**
South	L1-L2	2	43.40 k	42.42	1.18	D	6	1.00	4295	1903	**1870**
South	L2-L3	3	62.78 k	61.30	1.18	D	6	1.00	4282	1897	**1864**
South	L3-L4	4	88.37 k	84.78	1.20	D	6	1.00	4063	1800	**1767**
South	L4-L5	5	104.40 k	96.50	1.24	D	6	1.00	3633	1609	**1577**
South	L5-L6	6	55.40 k	49.00	1.30	D	6	1.00	3184	1411	**1378**
South	L6-L7	7	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L7-L8	8	44.70 k	52.25	0.98	D	6	1.00	7346	3254	**3222**
South	L8-L9	9	68.26 k	77.55	1.01	D	6	1.00	6745	2988	**2955**
South	L9-L10	10	77.88 k	99.75	0.90	D	6	1.00	9668	4283	**4250**
South	L10-L11	11	78.36 k	99.75	0.90	D	6	1.00	9490	4204	**4171**
South	L11-L12	12	100.29 k	96.50	1.20	D	6	1.00	4098	1815	**1783**
South	L12-L13	13	134.89 k	90.05	1.72	D	6	1.00	1369	606	**573**
South	L13-L14	14	161.13 k	90.05	2.06	D	6	1.00	803	356	**323**
South	L14-L15	15	170.62 k	93.25	2.10	D	6	1.00	751	333	**300**
South	L15-L16	16	127.66 k	90.00	1.63	D	6	1.00	1612	714	**681**
South	L16-L17	17	106.15 k	73.28	1.67	D	6	1.00	1514	670	**638**
South	L17-L18	18	99.22 k	64.55	1.77	D	6	1.00	1266	561	**528**
South	L18-L19	19	92.18 k	64.55	1.64	D	6	1.00	1579	700	**667**
South	L19-L20	20	85.60 k	67.80	1.45	D	6	1.00	2286	1013	**980**
South	L20-L21	21	84.99 k	67.80	1.44	D	6	1.00	2336	1035	**1002**
South	L21-L22	22	69.87 k	58.75	1.37	D	6	1.00	2735	1211	**1179**
South	L22-L23	23	42.68 k	45.67	1.07	D	6	1.00	5637	2497	**2464**
South	L23-L24	24	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L24-L25	25	45.62 k	42.42	1.24	D	6	1.00	3700	1639	**1606**
South	L25-L26	26	63.59 k	45.67	1.60	D	6	1.00	1704	755	**722**
South	L26-L27	27	36.84 k	42.42	1.00	D	6	1.00	7028	3113	**3080**
South	L27-L28	28	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L28-L29	29	30.95 k	45.67	0.78	D	6	1.00	14782	6549	**6516**
South	L29-L30	30	47.32 k	48.92	1.11	D	6	1.00	5084	2252	**2219**
South	L30-L31	31	47.74 k	48.92	1.12	D	6	1.00	4952	2194	**2161**
South	L31-L32	32	64.42 k	45.67	1.62	D	6	1.00	1640	726	**694**
South	L32-L33	33	93.62 k	45.67	2.36	D	6	1.00	534	237	**204**
South	L33-L34	34	121.06 k	62.77	2.22	D	6	1.00	641	284	**251**
South	L34-L35	35	135.87 k	105.80	1.48	D	6	1.00	2172	962	**929**
South	L35-L36	36	98.39 k	105.80	1.07	D	6	1.00	5720	2534	**2501**
South	L36-L37	37	72.19 k	58.05	1.43	D	6	1.00	2392	1060	**1027**
South	L37-L38	38	67.94 k	45.67	1.71	D	6	1.00	1398	619	**586**
South	L38-L39	39	64.92 k	45.67	1.63	D	6	1.00	1602	710	**677**
South	L39-L40	40	64.97 k	48.92	1.53	D	6	1.00	1965	870	**838**
South	L40-L41	41	49.38 k	48.92	1.16	D	6	1.00	4475	1982	**1950**
South	L41-L42	42	29.68 k	45.67	0.75	D	6	1.00	16771	7429	**7397**

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South	L42-L43	43	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L43-L44	44	34.88 k	42.42	0.95	D	6	1.00	8280	3668	**3635**
South	L44-L45	45	67.60 k	52.56	1.48	D	6	1.00	2162	958	**925**
South	L45-L46	46	65.34 k	52.56	1.43	D	6	1.00	2395	1061	**1028**
South	L46-L47	47	33.13 k	42.42	0.90	D	6	1.00	9663	4281	**4248**
South	L47-L48	48	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L48-L49	49	25.68 k	42.42	0.70	D	6	1.00	20733	9185	**9152**
South	L49-L50	50	39.57 k	49.00	0.93	D	6	1.00	8739	3871	**3838**
South	L50-L51	51	37.51 k	49.00	0.88	D	6	1.00	10255	4543	**4510**
South	L51-L52	52	49.87 k	45.67	1.26	D	6	1.00	3534	1565	**1533**
South	L52-L53	53	71.45 k	45.67	1.80	D	6	1.00	1202	532	**500**
South	L53-L54	54	93.05 k	53.05	2.02	D	6	1.00	853	378	**345**
South	L54-L55	55	112.82 k	79.48	1.63	D	6	1.00	1609	713	**680**
South	L55-L56	56	123.70 k	140.80	1.01	D	6	1.00	6784	3005	**2973**
South	L56-L57	57	107.86 k	128.80	0.96	D	6	1.00	7834	3470	**3438**
South	L57-L58	58	82.45 k	72.23	1.31	D	6	1.00	3094	1371	**1338**
South	L58-L59	59	77.28 k	53.05	1.68	D	6	1.00	1488	659	**626**
South	L59-L60	60	74.57 k	53.05	1.62	D	6	1.00	1656	734	**701**
South	L60-L61	61	73.05 k	58.05	1.45	D	6	1.00	2309	1023	**990**
South	L61-L62	62	76.56 k	64.55	1.36	D	6	1.00	2757	1221	**1188**
South	L62-L63	63	69.03 k	64.55	1.23	D	6	1.00	3762	1666	**1634**
South	L63-L64	64	52.82 k	52.17	1.16	D	6	1.00	4433	1964	**1931**
South	L64-L65	65	31.60 k	45.67	0.80	D	6	1.00	13894	6155	**6122**
South	L65-L66	66	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L66-L67	67	36.33 k	42.42	0.98	D	6	1.00	7327	3246	**3213**
South	L67-L68	68	64.91 k	49.00	1.52	D	6	1.00	1979	877	**844**
South	L68-L69	69	64.26 k	49.00	1.51	D	6	1.00	2040	904	**871**
South	L69-L70	70	34.83 k	42.42	0.94	D	6	1.00	8316	3684	**3651**
South	L70-L71	71	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L71-L72	72	28.74 k	45.67	0.72	D	6	1.00	18467	8181	**8148**
South	L72-L73	73	48.27 k	58.05	0.96	D	6	1.00	8001	3545	**3512**
South	L73-L74	74	58.14 k	64.56	1.04	D	6	1.00	6300	2791	**2758**
South	L74-L75	75	57.77 k	64.80	1.03	D	6	1.00	6492	2876	**2843**
South	L75-L76	76	68.03 k	57.55	1.36	D	6	1.00	2785	1234	**1201**
South	L76-L77	77	94.24 k	57.55	1.88	D	6	1.00	1048	464	**431**
South	L77-L78	78	123.40 k	64.80	2.19	D	6	1.00	666	295	**262**
South	L78-L79	79	154.93 k	104.64	1.70	D	6	1.00	1418	628	**595**
South	L79-L80	80	178.92 k	137.25	1.50	D	6	1.00	2077	920	**887**
South	L80-L81	81	190.69 k	167.48	1.31	D	6	1.00	3117	1381	**1348**
South	L81-L82	82	186.22 k	182.70	1.17	D	6	1.00	4345	1925	**1892**
South	L82-L83	83	188.49 k	176.13	1.23	D	6	1.00	3754	1663	**1630**
South	L83-L84	84	173.67 k	137.25	1.46	D	6	1.00	2271	1006	**973**
South	L84-L85	85	158.67 k	129.75	1.41	D	6	1.00	2516	1114	**1082**
South	L85-L86	86	152.48 k	133.50	1.31	D	6	1.00	3087	1368	**1335**
South	L86-L87	87	142.12 k	142.45	1.15	D	6	1.00	4633	2053	**2020**
South	L87-L88	88	131.82 k	151.38	1.00	D	6	1.00	6967	3086	**3054**
South	L88-L89	89	124.88 k	172.38	0.83	D	6	1.00	12099	5360	**5327**
South	L89-L90	90	123.07 k	193.38	0.73	D	6	1.00	17849	7907	**7874**
South	L90-L91	91	142.36 k	244.48	0.67	D	6	1.00	23301	10322	**10290**
South	L91-L92	92	132.36 k	202.48	0.75	D	6	1.00	16470	7296	**7263**
South	L92-L93	93	127.22 k	151.38	0.97	D	6	1.00	7750	3433	**3401**
South	L93-L94	94	118.63 k	133.50	1.02	D	6	1.00	6557	2905	**2872**
South	L94-L95	95	98.71 k	99.75	1.14	D	6	1.00	4748	2103	**2071**
South	L95-L96	96	56.94 k	76.05	0.86	D	6	1.00	10958	4854	**4821**
South	L96-L97	97	0.00 k	45.42	0.00	D	6	1.00	n/a	n/a	**n/a**

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South	L97-L98	98	55.85 k	52.92	1.21	D	6	1.00	3915	1734	**1702**
South	L98-L99	99	97.81 k	85.28	1.32	D	6	1.00	3049	1351	**1318**
South	L99-L100	100	122.74 k	110.42	1.28	D	6	1.00	3350	1484	**1451**
South	L100-L101	101	126.30 k	114.17	1.27	D	6	1.00	3399	1506	**1473**
South	L101-L102	102	102.82 k	89.03	1.33	D	6	1.00	2987	1323	**1290**
South	L102-L103	103	60.10 k	52.92	1.31	D	6	1.00	3142	1392	**1359**
South	L103-L104	104	0.00 k	45.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L104-L105	105	61.79 k	61.05	1.16	D	6	1.00	4436	1965	**1933**
South	L105-L106	106	105.04 k	111.00	1.09	D	6	1.00	5430	2405	**2373**
South	L106-L107	107	128.12 k	144.48	1.02	D	6	1.00	6598	2923	**2890**
South	L107-L108	108	138.02 k	163.73	0.97	D	6	1.00	7680	3402	**3370**
South	L108-L109	109	144.55 k	179.88	0.92	D	6	1.00	8866	3927	**3895**
South	L109-L110	110	148.27 k	197.13	0.86	D	6	1.00	10811	4789	**4757**
South	L110-L111	111	133.24 k	204.13	0.75	D	6	1.00	16542	7328	**7295**
South	L111-L112	112	135.13 k	167.48	0.93	D	6	1.00	8760	3881	**3848**
South	L112-L113	113	141.61 k	155.13	1.05	D	6	1.00	6047	2679	**2646**
South	L113-L114	114	149.97 k	138.63	1.24	D	6	1.00	3634	1610	**1577**
South	L114-L115	115	154.83 k	132.31	1.35	D	6	1.00	2871	1272	**1239**
South	L115-L116	116	151.92 k	110.73	1.58	D	6	1.00	1782	789	**757**
South	L116-L117	117	151.04 k	114.48	1.52	D	6	1.00	2004	888	**855**
South	L117-L118	118	160.31 k	134.88	1.37	D	6	1.00	2740	1214	**1181**
South	L118-L119	119	160.44 k	158.88	1.16	D	6	1.00	4468	1979	**1946**
South	L119-L120	120	147.93 k	158.88	1.07	D	6	1.00	5699	2525	**2492**
South	L120-L121	121	125.95 k	148.81	0.97	D	6	1.00	7588	3361	**3329**
South	L121-L122	122	97.73 k	125.06	0.90	D	6	1.00	9640	4270	**4238**
South	L122-L123	123	66.58 k	89.73	0.85	D	6	1.00	11262	4989	**4956**
South	L123-L124	124	37.64 k	57.55	0.75	D	6	1.00	16440	7283	**7250**
South	L124-L125	125	17.21 k	52.92	0.37	D	6	1.00	133709	59233	**59200**
South	L125-L126	126	5.84 k	52.92	0.13	D	6	1.00	3432470	1520574	**1520541**
South	U0-U1	127	34.22 k	45.67	0.86	D	6	1.00	10940	4846	**4813**
South	U1-U2	128	69.38 k	61.30	1.30	D	6	1.00	3173	1406	**1373**
South	U2-U3	129	97.08 k	96.50	1.16	D	6	1.00	4519	2002	**1969**
South	U3-U4	130	111.29 k	96.50	1.33	D	6	1.00	3000	1329	**1296**
South	U4-U5	131	96.95 k	84.78	1.32	D	6	1.00	3076	1363	**1330**
South	U5-U6	132	96.99 k	84.78	1.32	D	6	1.00	3073	1361	**1329**
South	U6-U7	133	58.03 k	58.05	1.15	D	6	1.00	4604	2040	**2007**
South	U7-U8	134	0.00 k	45.67	0.00	D	6	1.00	n/a	n/a	**n/a**
South	U8-U9	135	46.26 k	47.17	1.13	D	6	1.00	4877	2161	**2128**
South	U9-U10	136	71.19 k	74.30	1.10	D	6	1.00	5230	2317	**2284**
South	U10-U11	137	117.18 k	88.48	1.52	D	6	1.00	1981	878	**845**
South	U11-U12	138	158.00 k	88.48	2.05	D	6	1.00	808	358	**325**
South	U12-U13	139	191.28 k	91.73	2.40	D	6	1.00	507	225	**192**
South	U13-U14	140	206.93 k	93.95	2.53	D	6	1.00	431	191	**158**
South	U14-U15	141	190.51 k	91.73	2.39	D	6	1.00	514	228	**195**
South	U15-U16	142	190.54 k	91.73	2.39	D	6	1.00	513	227	**195**
South	U16-U17	143	166.71 k	85.25	2.25	D	6	1.00	615	273	**240**
South	U17-U18	144	134.54 k	72.25	2.14	D	6	1.00	713	316	**283**
South	U18-U19	145	99.97 k	61.30	1.88	D	6	1.00	1061	470	**437**
South	U19-U20	146	69.19 k	61.30	1.30	D	6	1.00	3198	1417	**1384**
South	U20-U21	147	43.84 k	49.00	1.03	D	6	1.00	6426	2847	**2814**
South	U21-U22	148	30.73 k	42.42	0.83	D	6	1.00	12103	5362	**5329**
South	U22-U23	149	22.25 k	42.42	0.60	D	6	1.00	31878	14122	**14089**
South	U23-U24	150	60.66 k	45.67	1.53	D	6	1.00	1963	870	**837**
South	U24-U25	151	77.04 k	52.17	1.70	D	6	1.00	1429	633	**600**
South	U25-U26	152	77.02 k	52.17	1.70	D	6	1.00	1430	634	**601**

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South	U26-U27	153	67.83 k	52.17	1.50	D	6	1.00	2094	928	**895**
South	U27-U28	154	37.14 k	45.67	0.94	D	6	1.00	8553	3789	**3756**
South	U28-U29	155	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	U29-U30	156	26.58 k	42.42	0.72	D	6	1.00	18704	8286	**8253**
South	U30-U31	157	64.85 k	45.67	1.63	D	6	1.00	1607	712	**679**
South	U31-U32	158	99.83 k	45.67	2.51	D	6	1.00	441	195	**162**
South	U32-U33	159	134.39 k	63.52	2.43	D	6	1.00	486	215	**182**
South	U33-U34	160	155.03 k	91.42	1.95	D	6	1.00	943	418	**385**
South	U34-U35	161	145.84 k	101.70	1.65	D	6	1.00	1560	691	**658**
South	U35-U36	162	145.87 k	101.70	1.65	D	6	1.00	1559	691	**658**
South	U36-U37	163	122.49 k	86.80	1.62	D	6	1.00	1637	725	**692**
South	U37-U38	164	92.59 k	62.77	1.70	D	6	1.00	1433	635	**602**
South	U38-U39	165	60.52 k	58.80	1.18	D	6	1.00	4220	1869	**1837**
South	U39-U40	166	37.80 k	58.80	0.74	D	6	1.00	17320	7673	**7640**
South	U40-U41	167	17.83 k	42.42	0.48	D	6	1.00	61995	27464	**27431**
South	U41-U42	168	13.59 k	42.42	0.37	D	6	1.00	140061	62047	**62014**
South	U42-U43	169	43.32 k	45.67	1.09	D	6	1.00	5392	2389	**2356**
South	U43-U44	170	74.85 k	56.30	1.53	D	6	1.00	1958	867	**834**
South	U44-U45	171	81.36 k	62.77	1.49	D	6	1.00	2112	936	**903**
South	U45-U46	172	81.36 k	62.77	1.49	D	6	1.00	2112	936	**903**
South	U46-U47	173	67.99 k	56.30	1.39	D	6	1.00	2612	1157	**1124**
South	U47-U48	174	32.98 k	45.67	0.83	D	6	1.00	12220	5413	**5380**
South	U48-U49	175	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	U49-U50	176	19.38 k	42.42	0.53	D	6	1.00	48269	21383	**21350**
South	U50-U51	177	48.46 k	45.67	1.22	D	6	1.00	3852	1706	**1673**
South	U51-U52	178	74.41 k	45.67	1.87	D	6	1.00	1064	471	**438**
South	U52-U53	179	103.67 k	54.55	2.19	D	6	1.00	670	297	**264**
South	U53-U54	180	128.72 k	77.06	1.92	D	6	1.00	987	437	**405**
South	U54-U55	181	145.08 k	103.31	1.61	D	6	1.00	1661	736	**703**
South	U55-U56	182	145.22 k	106.92	1.56	D	6	1.00	1836	813	**781**
South	U56-U57	183	145.24 k	106.92	1.56	D	6	1.00	1836	813	**780**
South	U57-U58	184	138.70 k	70.55	2.26	D	6	1.00	605	268	**235**
South	U58-U59	185	114.35 k	73.80	1.78	D	6	1.00	1237	548	**515**
South	U59-U60	186	87.76 k	52.25	1.93	D	6	1.00	971	430	**397**
South	U60-U61	187	63.38 k	45.75	1.59	D	6	1.00	1731	767	**734**
South	U61-U62	188	44.04 k	45.67	1.11	D	6	1.00	5131	2273	**2240**
South	U62-U63	189	32.73 k	59.80	0.63	D	6	1.00	28051	12426	**12394**
South	U63-U64	190	21.02 k	42.42	0.57	D	6	1.00	37839	16763	**16730**
South	U64-U65	191	15.24 k	42.42	0.41	D	6	1.00	99209	43949	**43917**
South	U65-U66	192	46.13 k	48.61	1.09	D	6	1.00	5384	2385	**2352**
South	U66-U67	193	73.16 k	50.67	1.66	D	6	1.00	1529	677	**644**
South	U67-U68	194	77.93 k	61.30	1.46	D	6	1.00	2239	992	**959**
South	U68-U69	195	77.89 k	61.30	1.46	D	6	1.00	2242	993	**960**
South	U69-U70	196	67.46 k	56.30	1.38	D	6	1.00	2674	1185	**1152**
South	U70-U71	197	35.22 k	45.67	0.89	D	6	1.00	10035	4445	**4413**
South	U71-U72	198	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	U72-U73	199	25.91 k	42.42	0.70	D	6	1.00	20197	8947	**8915**
South	U73-U74	200	39.26 k	57.78	0.78	D	6	1.00	14667	6497	**6465**
South	U74-U75	201	66.45 k	45.42	1.68	D	6	1.00	1469	651	**618**
South	U75-U76	202	97.50 k	68.55	1.64	D	6	1.00	1599	708	**675**
South	U76-U77	203	133.79 k	68.55	2.24	D	6	1.00	619	274	**241**
South	U77-U78	204	172.05 k	100.94	1.96	D	6	1.00	929	412	**379**
South	U78-U79	205	202.06 k	140.69	1.65	D	6	1.00	1553	688	**655**
South	U79-U80	206	218.70 k	166.38	1.51	D	6	1.00	2026	897	**865**
South	U80-U81	207	230.81 k	189.13	1.40	D	6	1.00	2531	1121	**1089**

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South	U81-U82	208	246.63 k	181.88	1.56	D	6	1.00	1845	817	**785**
South	U82-U83	209	246.65 k	181.88	1.56	D	6	1.00	1845	817	**784**
South	U83-U84	210	249.11 k	168.03	1.70	D	6	1.00	1412	625	**593**
South	U84-U85	211	240.07 k	139.28	1.98	D	6	1.00	898	398	**365**
South	U85-U86	212	220.36 k	129.48	1.96	D	6	1.00	933	414	**381**
South	U86-U87	213	192.01 k	129.48	1.71	D	6	1.00	1411	625	**592**
South	U87-U88	214	160.05 k	133.23	1.38	D	6	1.00	2654	1176	**1143**
South	U88-U89	215	130.39 k	133.23	1.13	D	6	1.00	4909	2175	**2142**
South	U89-U90	216	105.64 k	133.23	0.91	D	6	1.00	9229	4088	**4056**
South	U90-U91	217	103.14 k	133.23	0.89	D	6	1.00	9918	4393	**4361**
South	U91-U92	218	110.86 k	133.23	0.96	D	6	1.00	7987	3538	**3505**
South	U92-U93	219	110.23 k	121.98	1.04	D	6	1.00	6235	2762	**2729**
South	U93-U94	220	96.24 k	97.23	1.14	D	6	1.00	4744	2102	**2069**
South	U94-U95	221	56.85 k	61.05	1.07	D	6	1.00	5696	2523	**2491**
South	U95-U96	222	0.00 k	45.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	U96-U97	223	56.57 k	61.05	1.07	D	6	1.00	5783	2562	**2529**
South	U97-U98	224	100.09 k	93.00	1.24	D	6	1.00	3691	1635	**1602**
South	U98-U99	225	126.99 k	111.06	1.31	D	6	1.00	3078	1363	**1331**
South	U99-U100	226	136.86 k	121.00	1.30	D	6	1.00	3180	1409	**1376**
South	U100-U101	227	136.87 k	121.00	1.30	D	6	1.00	3179	1408	**1376**
South	U101-U102	228	134.61 k	114.56	1.35	D	6	1.00	2836	1256	**1224**
South	U102-U103	229	114.76 k	93.00	1.42	D	6	1.00	2448	1085	**1052**
South	U103-U104	230	76.07 k	61.05	1.43	D	6	1.00	2378	1053	**1021**
South	U104-U105	231	26.73 k	60.42	0.51	D	6	1.00	53168	23553	**23521**
South	U105-U106	232	57.30 k	61.05	1.08	D	6	1.00	5565	2465	**2432**
South	U106-U107	233	92.59 k	105.30	1.01	D	6	1.00	6767	2998	**2965**
South	U107-U108	234	104.54 k	133.23	0.90	D	6	1.00	9525	4220	**4187**
South	U108-U109	235	101.43 k	144.48	0.81	D	6	1.00	13300	5892	**5859**
South	U109-U110	236	85.23 k	140.73	0.70	D	6	1.00	20717	9177	**9145**
South	U110-U111	237	81.54 k	140.73	0.67	D	6	1.00	23655	10479	**10446**
South	U111-U112	238	103.61 k	140.73	0.85	D	6	1.00	11529	5107	**5075**
South	U112-U113	239	129.96 k	140.73	1.06	D	6	1.00	5843	2588	**2555**
South	U113-U114	240	157.45 k	122.44	1.48	D	6	1.00	2163	958	**926**
South	U114-U115	241	180.18 k	108.44	1.91	D	6	1.00	1003	444	**411**
South	U115-U116	242	194.45 k	118.58	1.89	D	6	1.00	1043	462	**429**
South	U116-U117	243	199.77 k	139.20	1.65	D	6	1.00	1557	690	**657**
South	U117-U118	244	199.57 k	151.23	1.52	D	6	1.00	2002	887	**854**
South	U118-U119	245	199.56 k	151.23	1.52	D	6	1.00	2002	887	**854**
South	U119-U120	246	191.67 k	159.98	1.38	D	6	1.00	2675	1185	**1152**
South	U120-U121	247	175.23 k	159.98	1.26	D	6	1.00	3501	1551	**1518**
South	U121-U122	248	148.99 k	147.48	1.16	D	6	1.00	4463	1977	**1944**
South	U122-U123	249	115.69 k	118.23	1.13	D	6	1.00	4911	2176	**2143**
South	U123-U124	250	79.71 k	87.30	1.05	D	6	1.00	6043	2677	**2644**
South	U124-U125	251	46.47 k	61.05	0.88	D	6	1.00	10432	4621	**4588**
South	U125-U126	252	18.24 k	52.92	0.40	D	6	1.00	112464	49821	**49788**
North	L0-L1	253	48.29 k	42.42	1.31	D	6	1.00	3119	1382	**1349**
North	L1-L2	254	43.43 k	42.42	1.18	D	6	1.00	4289	1900	**1867**
North	L2-L3	255	62.76 k	61.30	1.18	D	6	1.00	4286	1899	**1866**
North	L3-L4	256	88.36 k	84.78	1.20	D	6	1.00	4064	1800	**1768**
North	L4-L5	257	104.40 k	96.50	1.24	D	6	1.00	3634	1610	**1577**
North	L5-L6	258	55.40 k	49.00	1.30	D	6	1.00	3183	1410	**1377**
North	L6-L7	259	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L7-L8	260	44.71 k	52.25	0.98	D	6	1.00	7342	3252	**3220**
North	L8-L9	261	68.25 k	77.55	1.01	D	6	1.00	6747	2989	**2956**
North	L9-L10	262	77.87 k	99.75	0.90	D	6	1.00	9672	4285	**4252**

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North	L10-L11	263	78.35 k	99.75	0.90	D	6	1.00	9494	4206	**4173**
North	L11-L12	264	100.37 k	96.50	1.20	D	6	1.00	4088	1811	**1778**
North	L12-L13	265	134.99 k	90.05	1.72	D	6	1.00	1365	605	**572**
North	L13-L14	266	161.27 k	90.05	2.06	D	6	1.00	801	355	**322**
North	L14-L15	267	170.78 k	93.25	2.11	D	6	1.00	749	332	**299**
North	L15-L16	268	127.89 k	90.00	1.63	D	6	1.00	1604	710	**678**
North	L16-L17	269	106.35 k	73.28	1.67	D	6	1.00	1505	667	**634**
North	L17-L18	270	99.40 k	64.55	1.77	D	6	1.00	1260	558	**525**
North	L18-L19	271	92.36 k	64.55	1.65	D	6	1.00	1571	696	**663**
North	L19-L20	272	85.75 k	67.80	1.45	D	6	1.00	2273	1007	**974**
North	L20-L21	273	85.00 k	67.80	1.44	D	6	1.00	2335	1034	**1002**
North	L21-L22	274	69.88 k	58.75	1.37	D	6	1.00	2734	1211	**1179**
North	L22-L23	275	42.68 k	45.67	1.07	D	6	1.00	5636	2497	**2464**
North	L23-L24	276	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L24-L25	277	45.62 k	42.42	1.24	D	6	1.00	3700	1639	**1606**
North	L25-L26	278	63.59 k	45.67	1.60	D	6	1.00	1705	755	**722**
North	L26-L27	279	36.83 k	42.42	1.00	D	6	1.00	7030	3114	**3081**
North	L27-L28	280	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L28-L29	281	30.94 k	45.67	0.78	D	6	1.00	14800	6556	**6523**
North	L29-L30	282	47.30 k	48.92	1.11	D	6	1.00	5092	2256	**2223**
North	L30-L31	283	47.71 k	48.92	1.12	D	6	1.00	4960	2197	**2164**
North	L31-L32	284	64.46 k	45.67	1.62	D	6	1.00	1636	725	**692**
North	L32-L33	285	93.62 k	45.67	2.36	D	6	1.00	534	237	**204**
North	L33-L34	286	121.22 k	62.77	2.22	D	6	1.00	639	283	**250**
North	L34-L35	287	136.43 k	105.80	1.48	D	6	1.00	2146	950	**918**
North	L35-L36	288	100.12 k	105.80	1.09	D	6	1.00	5429	2405	**2372**
North	L36-L37	289	72.44 k	58.05	1.44	D	6	1.00	2367	1048	**1016**
North	L37-L38	290	68.16 k	45.67	1.72	D	6	1.00	1384	613	**580**
North	L38-L39	291	64.99 k	45.67	1.64	D	6	1.00	1597	707	**675**
North	L39-L40	292	64.84 k	48.92	1.52	D	6	1.00	1976	875	**843**
North	L40-L41	293	48.64 k	48.92	1.14	D	6	1.00	4682	2074	**2041**
North	L41-L42	294	29.45 k	45.67	0.74	D	6	1.00	17162	7603	**7570**
North	L42-L43	295	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L43-L44	296	35.08 k	42.42	0.95	D	6	1.00	8136	3604	**3571**
North	L44-L45	297	68.44 k	52.56	1.50	D	6	1.00	2084	923	**890**
North	L45-L46	298	67.23 k	52.56	1.47	D	6	1.00	2199	974	**941**
North	L46-L47	299	35.76 k	42.42	0.97	D	6	1.00	7680	3402	**3369**
North	L47-L48	300	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L48-L49	301	28.32 k	45.67	0.71	D	6	1.00	19293	8547	**8514**
North	L49-L50	302	42.77 k	48.92	1.01	D	6	1.00	6888	3051	**3018**
North	L50-L51	303	40.54 k	45.67	1.02	D	6	1.00	6576	2913	**2881**
North	L51-L52	304	57.93 k	45.67	1.46	D	6	1.00	2255	999	**966**
North	L52-L53	305	84.55 k	45.67	2.13	D	6	1.00	725	321	**288**
North	L53-L54	306	113.92 k	75.48	1.74	D	6	1.00	1339	593	**560**
North	L54-L55	307	142.70 k	118.63	1.38	D	6	1.00	2643	1171	**1138**
North	L55-L56	308	162.23 k	206.38	0.90	D	6	1.00	9472	4196	**4163**
North	L56-L57	309	149.31 k	203.38	0.84	D	6	1.00	11627	5151	**5118**
North	L57-L58	310	117.03 k	106.98	1.26	D	6	1.00	3515	1557	**1524**
North	L58-L59	311	95.17 k	69.00	1.59	D	6	1.00	1753	777	**744**
North	L59-L60	312	87.05 k	58.05	1.72	D	6	1.00	1364	604	**571**
North	L60-L61	313	81.74 k	58.05	1.62	D	6	1.00	1648	730	**697**
North	L61-L62	314	76.63 k	61.30	1.44	D	6	1.00	2355	1043	**1011**
North	L62-L63	315	67.69 k	61.30	1.27	D	6	1.00	3416	1513	**1481**
North	L63-L64	316	52.79 k	48.92	1.24	D	6	1.00	3661	1622	**1589**
North	L64-L65	317	31.45 k	45.67	0.79	D	6	1.00	14094	6244	**6211**

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North	L65-L66	318	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L66-L67	319	36.14 k	42.42	0.98	D	6	1.00	7439	3296	**3263**
North	L67-L68	320	64.84 k	49.00	1.52	D	6	1.00	1986	880	**847**
North	L68-L69	321	64.07 k	49.00	1.50	D	6	1.00	2058	912	**879**
North	L69-L70	322	34.70 k	42.42	0.94	D	6	1.00	8405	3723	**3691**
North	L70-L71	323	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L71-L72	324	28.64 k	45.67	0.72	D	6	1.00	18653	8263	**8231**
North	L72-L73	325	48.15 k	58.05	0.95	D	6	1.00	8060	3570	**3538**
North	L73-L74	326	57.96 k	64.56	1.03	D	6	1.00	6361	2818	**2785**
North	L74-L75	327	57.59 k	64.80	1.02	D	6	1.00	6552	2903	**2870**
North	L75-L76	328	68.54 k	57.55	1.37	D	6	1.00	2723	1206	**1173**
North	L76-L77	329	94.82 k	57.55	1.89	D	6	1.00	1029	456	**423**
North	L77-L78	330	124.14 k	64.80	2.20	D	6	1.00	654	290	**257**
North	L78-L79	331	155.63 k	104.64	1.71	D	6	1.00	1399	620	**587**
North	L79-L80	332	179.81 k	137.25	1.51	D	6	1.00	2046	906	**874**
North	L80-L81	333	191.73 k	167.48	1.32	D	6	1.00	3067	1358	**1326**
North	L81-L82	334	187.52 k	182.70	1.18	D	6	1.00	4255	1885	**1852**
North	L82-L83	335	191.46 k	176.13	1.25	D	6	1.00	3581	1586	**1554**
North	L83-L84	336	176.42 k	137.25	1.48	D	6	1.00	2166	960	**927**
North	L84-L85	337	161.76 k	129.75	1.43	D	6	1.00	2374	1052	**1019**
North	L85-L86	338	155.37 k	133.50	1.34	D	6	1.00	2919	1293	**1260**
North	L86-L87	339	144.71 k	142.45	1.17	D	6	1.00	4389	1944	**1912**
North	L87-L88	340	134.38 k	151.38	1.02	D	6	1.00	6577	2914	**2881**
North	L88-L89	341	127.48 k	172.38	0.85	D	6	1.00	11374	5039	**5006**
North	L89-L90	342	125.70 k	193.38	0.75	D	6	1.00	16751	7421	**7388**
North	L90-L91	343	142.74 k	244.48	0.67	D	6	1.00	23117	10241	**10208**
North	L91-L92	344	132.62 k	202.48	0.75	D	6	1.00	16373	7253	**7220**
North	L92-L93	345	127.22 k	151.38	0.97	D	6	1.00	7750	3433	**3400**
North	L93-L94	346	118.67 k	133.50	1.02	D	6	1.00	6550	2902	**2869**
North	L94-L95	347	98.41 k	99.75	1.13	D	6	1.00	4792	2123	**2090**
North	L95-L96	348	57.01 k	76.05	0.86	D	6	1.00	10917	4836	**4804**
North	L96-L97	349	0.00 k	45.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L97-L98	350	55.51 k	52.92	1.21	D	6	1.00	3986	1766	**1733**
North	L98-L99	351	96.56 k	85.28	1.30	D	6	1.00	3169	1404	**1371**
North	L99-L100	352	120.26 k	108.44	1.28	D	6	1.00	3373	1494	**1461**
North	L100-L101	353	121.17 k	108.44	1.28	D	6	1.00	3298	1461	**1428**
North	L101-L102	354	98.42 k	85.28	1.33	D	6	1.00	2994	1326	**1293**
North	L102-L103	355	57.26 k	52.92	1.24	D	6	1.00	3633	1609	**1577**
North	L103-L104	356	0.00 k	45.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L104-L105	357	58.79 k	61.05	1.11	D	6	1.00	5151	2282	**2249**
North	L105-L106	358	100.72 k	111.00	1.04	D	6	1.00	6159	2728	**2696**
North	L106-L107	359	123.93 k	144.48	0.99	D	6	1.00	7291	3230	**3197**
North	L107-L108	360	134.73 k	163.73	0.95	D	6	1.00	8257	3658	**3625**
North	L108-L109	361	142.35 k	179.88	0.91	D	6	1.00	9282	4112	**4079**
North	L109-L110	362	145.36 k	197.13	0.85	D	6	1.00	11474	5083	**5050**
North	L110-L111	363	108.92 k	204.13	0.61	D	6	1.00	30285	13416	**13383**
North	L111-L112	364	119.45 k	167.48	0.82	D	6	1.00	12681	5618	**5585**
North	L112-L113	365	127.31 k	155.13	0.94	D	6	1.00	8324	3687	**3655**
North	L113-L114	366	137.57 k	138.63	1.14	D	6	1.00	4707	2085	**2053**
North	L114-L115	367	145.96 k	132.31	1.27	D	6	1.00	3427	1518	**1485**
North	L115-L116	368	148.28 k	110.73	1.54	D	6	1.00	1916	849	**816**
North	L116-L117	369	155.21 k	114.48	1.56	D	6	1.00	1846	818	**785**
North	L117-L118	370	168.52 k	134.88	1.44	D	6	1.00	2359	1045	**1012**
North	L118-L119	371	174.33 k	158.88	1.26	D	6	1.00	3482	1543	**1510**
North	L119-L120	372	163.15 k	158.88	1.18	D	6	1.00	4249	1882	**1849**

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North	L120-L121	373	140.54 k	148.81	1.09	D	6	1.00	5462	2420	**2387**
North	L121-L122	374	110.50 k	125.06	1.02	D	6	1.00	6670	2955	**2922**
North	L122-L123	375	77.15 k	89.73	0.99	D	6	1.00	7239	3207	**3174**
North	L123-L124	376	47.32 k	57.55	0.95	D	6	1.00	8277	3667	**3634**
North	L124-L125	377	21.28 k	52.92	0.46	D	6	1.00	70814	31370	**31338**
North	L125-L126	378	6.90 k	52.92	0.15	D	6	1.00	2072177	917968	**917936**
North	U0-U1	379	34.22 k	45.67	0.86	D	6	1.00	10943	4848	**4815**
North	U1-U2	380	69.37 k	61.30	1.30	D	6	1.00	3174	1406	**1373**
North	U2-U3	381	97.08 k	96.50	1.16	D	6	1.00	4519	2002	**1969**
North	U3-U4	382	111.28 k	96.50	1.33	D	6	1.00	3000	1329	**1296**
North	U4-U5	383	96.94 k	84.78	1.31	D	6	1.00	3078	1363	**1331**
North	U5-U6	384	96.97 k	84.78	1.32	D	6	1.00	3075	1362	**1329**
North	U6-U7	385	58.03 k	58.05	1.15	D	6	1.00	4604	2039	**2007**
North	U7-U8	386	0.00 k	45.67	0.00	D	6	1.00	n/a	n/a	**n/a**
North	U8-U9	387	46.27 k	47.17	1.13	D	6	1.00	4876	2160	**2127**
North	U9-U10	388	71.19 k	74.30	1.10	D	6	1.00	5231	2317	**2284**
North	U10-U11	389	117.21 k	88.48	1.52	D	6	1.00	1980	877	**844**
North	U11-U12	390	158.05 k	88.48	2.05	D	6	1.00	807	358	**325**
North	U12-U13	391	191.36 k	91.73	2.40	D	6	1.00	507	225	**192**
North	U13-U14	392	207.03 k	93.95	2.53	D	6	1.00	430	190	**158**
North	U14-U15	393	190.64 k	91.73	2.39	D	6	1.00	513	227	**194**
North	U15-U16	394	190.67 k	91.73	2.39	D	6	1.00	512	227	**194**
North	U16-U17	395	166.83 k	85.25	2.25	D	6	1.00	614	272	**239**
North	U17-U18	396	134.62 k	72.25	2.14	D	6	1.00	711	315	**282**
North	U18-U19	397	100.01 k	61.30	1.88	D	6	1.00	1059	469	**436**
North	U19-U20	398	69.19 k	61.30	1.30	D	6	1.00	3198	1417	**1384**
North	U20-U21	399	43.93 k	49.00	1.03	D	6	1.00	6383	2828	**2795**
North	U21-U22	400	30.68 k	42.42	0.83	D	6	1.00	12159	5386	**5354**
North	U22-U23	401	22.28 k	42.42	0.60	D	6	1.00	31758	14069	**14036**
North	U23-U24	402	60.69 k	45.67	1.53	D	6	1.00	1961	869	**836**
North	U24-U25	403	77.05 k	52.17	1.70	D	6	1.00	1428	633	**600**
North	U25-U26	404	77.03 k	52.17	1.70	D	6	1.00	1429	633	**600**
North	U26-U27	405	67.83 k	52.17	1.50	D	6	1.00	2093	927	**894**
North	U27-U28	406	37.15 k	45.67	0.94	D	6	1.00	8551	3788	**3755**
North	U28-U29	407	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	U29-U30	408	26.58 k	42.42	0.72	D	6	1.00	18714	8290	**8258**
North	U30-U31	409	64.93 k	45.67	1.63	D	6	1.00	1601	709	**676**
North	U31-U32	410	100.03 k	45.67	2.52	D	6	1.00	438	194	**161**
North	U32-U33	411	134.92 k	63.52	2.44	D	6	1.00	480	213	**180**
North	U33-U34	412	156.16 k	91.42	1.96	D	6	1.00	923	409	**376**
North	U34-U35	413	147.48 k	101.70	1.67	D	6	1.00	1509	668	**636**
North	U35-U36	414	147.51 k	101.70	1.67	D	6	1.00	1508	668	**635**
North	U36-U37	415	125.53 k	86.80	1.66	D	6	1.00	1521	674	**641**
North	U37-U38	416	95.93 k	62.77	1.76	D	6	1.00	1289	571	**538**
North	U38-U39	417	63.53 k	58.80	1.24	D	6	1.00	3646	1615	**1583**
North	U39-U40	418	40.20 k	58.80	0.79	D	6	1.00	14394	6376	**6344**
North	U40-U41	419	18.94 k	42.42	0.51	D	6	1.00	51737	22919	**22886**
North	U41-U42	420	13.04 k	42.42	0.35	D	6	1.00	158256	70107	**70074**
North	U42-U43	421	41.47 k	45.67	1.04	D	6	1.00	6146	2723	**2690**
North	U43-U44	422	73.99 k	56.30	1.51	D	6	1.00	2026	898	**865**
North	U44-U45	423	81.75 k	62.77	1.50	D	6	1.00	2082	922	**890**
North	U45-U46	424	81.74 k	62.77	1.50	D	6	1.00	2083	923	**890**
North	U46-U47	425	69.52 k	56.30	1.42	D	6	1.00	2443	1082	**1049**
North	U47-U48	426	35.51 k	45.67	0.89	D	6	1.00	9787	4336	**4303**
North	U48-U49	427	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**

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North	U49-U50	428	23.11 k	42.42	0.63	D	6	1.00	28472	12613	**12580**
North	U50-U51	429	53.56 k	58.80	1.05	D	6	1.00	6086	2696	**2663**
North	U51-U52	430	84.62 k	58.80	1.66	D	6	1.00	1543	684	**651**
North	U52-U53	431	121.96 k	72.23	1.94	D	6	1.00	956	423	**391**
North	U53-U54	432	156.27 k	113.38	1.59	D	6	1.00	1757	778	**746**
North	U54-U55	433	181.93 k	152.38	1.37	D	6	1.00	2703	1197	**1165**
North	U55-U56	434	183.75 k	179.88	1.17	D	6	1.00	4316	1912	**1879**
North	U56-U57	435	183.77 k	179.88	1.17	D	6	1.00	4315	1911	**1879**
North	U57-U58	436	176.38 k	149.23	1.36	D	6	1.00	2787	1234	**1202**
North	U58-U59	437	143.96 k	110.23	1.50	D	6	1.00	2066	915	**882**
North	U59-U60	438	108.81 k	65.73	1.90	D	6	1.00	1014	449	**417**
North	U60-U61	439	75.95 k	45.70	1.91	D	6	1.00	1002	444	**411**
North	U61-U62	440	50.49 k	39.17	1.48	D	6	1.00	2149	952	**919**
North	U62-U63	441	33.21 k	61.30	0.62	D	6	1.00	28921	12812	**12779**
North	U63-U64	442	21.19 k	42.42	0.57	D	6	1.00	36930	16360	**16327**
North	U64-U65	443	15.26 k	42.42	0.41	D	6	1.00	98859	43794	**43761**
North	U65-U66	444	45.34 k	48.61	1.07	D	6	1.00	5669	2512	**2479**
North	U66-U67	445	72.56 k	50.67	1.65	D	6	1.00	1567	694	**661**
North	U67-U68	446	77.77 k	61.30	1.46	D	6	1.00	2253	998	**965**
North	U68-U69	447	77.77 k	61.30	1.46	D	6	1.00	2253	998	**965**
North	U69-U70	448	67.19 k	56.30	1.37	D	6	1.00	2706	1199	**1166**
North	U70-U71	449	35.07 k	45.67	0.88	D	6	1.00	10162	4502	**4469**
North	U71-U72	450	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	U72-U73	451	25.86 k	42.42	0.70	D	6	1.00	20305	8995	**8962**
North	U73-U74	452	39.25 k	57.78	0.78	D	6	1.00	14675	6501	**6468**
North	U74-U75	453	66.52 k	45.42	1.68	D	6	1.00	1464	649	**616**
North	U75-U76	454	97.55 k	68.55	1.64	D	6	1.00	1596	707	**674**
North	U76-U77	455	134.13 k	68.55	2.25	D	6	1.00	614	272	**239**
North	U77-U78	456	172.47 k	100.94	1.96	D	6	1.00	922	409	**376**
North	U78-U79	457	202.51 k	140.69	1.66	D	6	1.00	1543	683	**651**
North	U79-U80	458	219.27 k	166.38	1.52	D	6	1.00	2010	890	**858**
North	U80-U81	459	232.47 k	189.13	1.41	D	6	1.00	2477	1097	**1065**
North	U81-U82	460	248.50 k	181.88	1.57	D	6	1.00	1804	799	**766**
North	U82-U83	461	248.52 k	181.88	1.57	D	6	1.00	1803	799	**766**
North	U83-U84	462	250.90 k	168.03	1.72	D	6	1.00	1382	612	**579**
North	U84-U85	463	241.48 k	139.28	1.99	D	6	1.00	883	391	**358**
North	U85-U86	464	221.59 k	129.48	1.97	D	6	1.00	918	407	**374**
North	U86-U87	465	192.92 k	129.48	1.71	D	6	1.00	1391	616	**583**
North	U87-U88	466	160.60 k	133.23	1.39	D	6	1.00	2627	1164	**1131**
North	U88-U89	467	130.61 k	133.23	1.13	D	6	1.00	4883	2163	**2131**
North	U89-U90	468	105.55 k	133.23	0.91	D	6	1.00	9252	4099	**4066**
North	U90-U91	469	103.62 k	133.23	0.89	D	6	1.00	9780	4333	**4300**
North	U91-U92	470	111.40 k	133.23	0.96	D	6	1.00	7870	3486	**3454**
North	U92-U93	471	110.70 k	121.98	1.04	D	6	1.00	6156	2727	**2694**
North	U93-U94	472	96.33 k	97.23	1.14	D	6	1.00	4732	2096	**2063**
North	U94-U95	473	57.11 k	61.05	1.08	D	6	1.00	5618	2489	**2456**
North	U95-U96	474	0.00 k	45.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	U96-U97	475	56.51 k	61.05	1.06	D	6	1.00	5802	2570	**2537**
North	U97-U98	476	99.27 k	93.00	1.23	D	6	1.00	3783	1676	**1643**
North	U98-U99	477	125.22 k	111.06	1.30	D	6	1.00	3210	1422	**1389**
North	U99-U100	478	134.09 k	118.56	1.30	D	6	1.00	3181	1409	**1376**
North	U100-U101	479	134.07 k	118.56	1.30	D	6	1.00	3182	1409	**1377**
North	U101-U102	480	130.49 k	111.06	1.35	D	6	1.00	2837	1257	**1224**
North	U102-U103	481	111.58 k	93.00	1.38	D	6	1.00	2664	1180	**1147**
North	U103-U104	482	74.66 k	61.05	1.41	D	6	1.00	2515	1114	**1081**

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North	U104-U105	483	27.11 k	60.42	0.52	D	6	1.00	50946	22569	**22536**
North	U105-U106	484	54.75 k	61.05	1.03	D	6	1.00	6376	2825	**2792**
North	U106-U107	485	88.75 k	105.30	0.97	D	6	1.00	7683	3403	**3371**
North	U107-U108	486	100.94 k	133.23	0.87	D	6	1.00	10579	4686	**4654**
North	U108-U109	487	98.73 k	144.48	0.79	D	6	1.00	14420	6388	**6355**
North	U109-U110	488	84.31 k	140.73	0.69	D	6	1.00	21402	9481	**9448**
North	U110-U111	489	83.14 k	140.73	0.68	D	6	1.00	22313	9885	**9852**
North	U111-U112	490	105.68 k	140.73	0.86	D	6	1.00	10864	4813	**4780**
North	U112-U113	491	132.60 k	140.73	1.08	D	6	1.00	5500	2436	**2404**
North	U113-U114	492	161.59 k	122.44	1.52	D	6	1.00	2002	887	**854**
North	U114-U115	493	187.10 k	108.44	1.98	D	6	1.00	896	397	**364**
North	U115-U116	494	205.35 k	118.58	1.99	D	6	1.00	886	392	**360**
North	U116-U117	495	214.67 k	139.20	1.77	D	6	1.00	1254	556	**523**
North	U117-U118	496	217.28 k	151.23	1.65	D	6	1.00	1551	687	**654**
North	U118-U119	497	217.27 k	151.23	1.65	D	6	1.00	1552	687	**655**
North	U119-U120	498	210.57 k	159.98	1.51	D	6	1.00	2018	894	**861**
North	U120-U121	499	194.81 k	159.98	1.40	D	6	1.00	2548	1129	**1096**
North	U121-U122	500	166.69 k	147.48	1.30	D	6	1.00	3187	1412	**1379**
North	U122-U123	501	130.15 k	118.23	1.27	D	6	1.00	3449	1528	**1495**
North	U123-U124	502	91.13 k	87.30	1.20	D	6	1.00	4044	1792	**1759**
North	U124-U125	503	55.69 k	61.05	1.05	D	6	1.00	6060	2684	**2652**
North	U125-U126	504	26.11 k	52.92	0.57	D	6	1.00	38323	16977	**16944**
South	U0-L0	505	56.92 k	46.53	1.41	D	6	1.00	2514	1114	**1081**
South	U1-L1	506	54.99 k	53.53	1.18	D	6	1.00	4244	1880	**1847**
South	U2-L2	507	48.94 k	40.72	1.38	D	6	1.00	2651	1175	**1142**
South	U3-L3	508	43.71 k	28.97	1.74	D	6	1.00	1339	593	**560**
South	U4-L4	509	38.83 k	28.97	1.54	D	6	1.00	1910	846	**813**
South	U5-L5	510	31.05 k	21.57	1.66	D	6	1.00	1541	683	**650**
South	U6-L6	511	47.58 k	37.78	1.45	D	6	1.00	2303	1020	**987**
South	U7-L7	512	54.63 k	51.25	1.23	D	6	1.00	3800	1683	**1650**
South	U8-L8	513	53.44 k	57.03	1.08	D	6	1.00	5591	2477	**2444**
South	U9-L9	514	50.41 k	64.03	0.91	D	6	1.00	9428	4176	**4144**
South	U10-L10	515	63.73 k	64.75	1.13	D	6	1.00	4825	2137	**2105**
South	U11-L11	516	64.61 k	50.69	1.47	D	6	1.00	2222	984	**951**
South	U12-L12	517	64.51 k	46.63	1.59	D	6	1.00	1737	770	**737**
South	U13-L13	518	58.38 k	37.78	1.78	D	6	1.00	1247	552	**520**
South	U14-L14	519	44.56 k	28.97	1.77	D	6	1.00	1264	560	**527**
South	U15-L15	520	30.78 k	21.57	1.64	D	6	1.00	1583	701	**668**
South	U16-L16	521	59.99 k	28.97	2.38	D	6	1.00	518	230	**197**
South	U17-L17	522	70.96 k	37.78	2.16	D	6	1.00	695	308	**275**
South	U18-L18	523	70.21 k	46.63	1.73	D	6	1.00	1348	597	**564**
South	U19-L19	524	63.25 k	50.69	1.44	D	6	1.00	2367	1049	**1016**
South	U20-L20	525	59.25 k	64.75	1.05	D	6	1.00	6006	2661	**2628**
South	U21-L21	526	47.19 k	46.25	1.17	D	6	1.00	4330	1918	**1885**
South	U22-L22	527	50.65 k	48.28	1.21	D	6	1.00	3985	1766	**1733**
South	U23-L23	528	50.73 k	40.72	1.43	D	6	1.00	2380	1054	**1021**
South	U24-L24	529	40.78 k	28.97	1.62	D	6	1.00	1649	731	**698**
South	U25-L25	530	30.65 k	21.57	1.63	D	6	1.00	1603	710	**677**
South	U26-L26	531	36.39 k	28.97	1.44	D	6	1.00	2321	1028	**995**
South	U27-L27	532	50.04 k	37.78	1.52	D	6	1.00	1980	877	**845**
South	U28-L28	533	54.66 k	46.25	1.36	D	6	1.00	2787	1235	**1202**
South	U29-L29	534	52.25 k	48.75	1.23	D	6	1.00	3737	1656	**1623**
South	U30-L30	535	60.86 k	102.00	0.69	D	6	1.00	21664	9597	**9564**
South	U31-L31	536	66.19 k	58.25	1.31	D	6	1.00	3136	1389	**1357**
South	U32-L32	537	64.34 k	53.75	1.38	D	6	1.00	2682	1188	**1155**

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South	U33-L33	538	56.87 k	46.25	1.41	D	6	1.00	2475	1096	**1064**
South	U34-L34	539	44.27 k	28.97	1.76	D	6	1.00	1289	571	**538**
South	U35-L35	540	30.95 k	23.64	1.51	D	6	1.00	2050	908	**875**
South	U36-L36	541	58.49 k	43.70	1.54	D	6	1.00	1918	850	**817**
South	U37-L37	542	66.88 k	48.75	1.58	D	6	1.00	1782	789	**757**
South	U38-L38	543	67.13 k	53.75	1.44	D	6	1.00	2362	1046	**1014**
South	U39-L39	544	60.11 k	59.25	1.17	D	6	1.00	4406	1952	**1919**
South	U40-L40	545	53.71 k	108.13	0.57	D	6	1.00	37531	16626	**16593**
South	U41-L41	546	50.50 k	53.25	1.09	D	6	1.00	5393	2389	**2356**
South	U42-L42	547	54.06 k	48.75	1.28	D	6	1.00	3374	1495	**1462**
South	U43-L43	548	51.24 k	46.63	1.26	D	6	1.00	3466	1536	**1503**
South	U44-L44	549	41.15 k	28.97	1.63	D	6	1.00	1605	711	**678**
South	U45-L45	550	30.83 k	25.39	1.40	D	6	1.00	2568	1138	**1105**
South	U46-L46	551	41.90 k	28.97	1.66	D	6	1.00	1520	673	**641**
South	U47-L47	552	55.78 k	46.63	1.38	D	6	1.00	2687	1190	**1158**
South	U48-L48	553	56.09 k	51.25	1.26	D	6	1.00	3510	1555	**1522**
South	U49-L49	554	51.04 k	56.75	1.03	D	6	1.00	6324	2802	**2769**
South	U50-L50	555	59.43 k	110.16	0.62	D	6	1.00	29301	12980	**12947**
South	U51-L51	556	64.39 k	73.34	1.01	D	6	1.00	6800	3012	**2980**
South	U52-L52	557	65.28 k	63.31	1.19	D	6	1.00	4197	1859	**1827**
South	U53-L53	558	61.01 k	67.78	1.04	D	6	1.00	6310	2795	**2763**
South	U54-L54	559	56.14 k	46.63	1.38	D	6	1.00	2636	1168	**1135**
South	U55-L55	560	44.50 k	28.97	1.77	D	6	1.00	1269	562	**529**
South	U56-L56	561	28.72 k	27.44	1.20	D	6	1.00	4010	1776	**1744**
South	U57-L57	562	48.35 k	34.85	1.60	D	6	1.00	1723	763	**731**
South	U58-L58	563	60.38 k	57.03	1.22	D	6	1.00	3878	1718	**1685**
South	U59-L59	564	61.19 k	73.78	0.95	D	6	1.00	8064	3572	**3540**
South	U60-L60	565	59.55 k	65.81	1.04	D	6	1.00	6212	2752	**2719**
South	U61-L61	566	57.23 k	68.34	0.96	D	6	1.00	7835	3471	**3438**
South	U62-L62	567	53.53 k	102.69	0.60	D	6	1.00	32474	14386	**14353**
South	U63-L63	568	46.67 k	59.25	0.91	D	6	1.00	9413	4170	**4137**
South	U64-L64	569	49.93 k	54.25	1.06	D	6	1.00	5903	2615	**2582**
South	U65-L65	570	52.77 k	53.78	1.13	D	6	1.00	4872	2158	**2125**
South	U66-L66	571	50.28 k	43.70	1.32	D	6	1.00	3020	1338	**1305**
South	U67-L67	572	38.89 k	28.97	1.54	D	6	1.00	1901	842	**809**
South	U68-L68	573	29.16 k	28.97	1.16	D	6	1.00	4511	1998	**1966**
South	U69-L69	574	38.72 k	28.97	1.54	D	6	1.00	1926	853	**821**
South	U70-L70	575	51.95 k	43.70	1.37	D	6	1.00	2738	1213	**1180**
South	U71-L71	576	55.48 k	53.75	1.19	D	6	1.00	4184	1853	**1821**
South	U72-L72	577	53.13 k	54.25	1.13	D	6	1.00	4897	2169	**2136**
South	U73-L73	578	46.96 k	59.00	0.92	D	6	1.00	9127	4043	**4010**
South	U74-L74	579	68.92 k	122.53	0.65	D	6	1.00	25860	11456	**11423**
South	U75-L75	580	75.96 k	79.19	1.10	D	6	1.00	5212	2309	**2276**
South	U76-L76	581	78.55 k	75.69	1.19	D	6	1.00	4116	1823	**1791**
South	U77-L77	582	77.55 k	82.59	1.08	D	6	1.00	5558	2462	**2429**
South	U78-L78	583	73.93 k	71.53	1.19	D	6	1.00	4167	1846	**1813**
South	U79-L79	584	65.46 k	56.25	1.34	D	6	1.00	2919	1293	**1260**
South	U80-L80	585	54.86 k	49.78	1.27	D	6	1.00	3437	1523	**1490**
South	U81-L81	586	50.23 k	28.97	1.99	D	6	1.00	883	391	**358**
South	U82-L82	587	29.34 k	28.97	1.16	D	6	1.00	4430	1962	**1930**
South	U83-L83	588	52.39 k	48.28	1.25	D	6	1.00	3601	1595	**1563**
South	U84-L84	589	59.73 k	60.63	1.13	D	6	1.00	4811	2131	**2099**
South	U85-L85	590	64.54 k	80.22	0.93	D	6	1.00	8835	3914	**3881**
South	U86-L86	591	68.24 k	80.63	0.97	D	6	1.00	7587	3361	**3328**
South	U87-L87	592	66.60 k	77.09	0.99	D	6	1.00	7138	3162	**3129**

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South	U88-L88	593	73.03 k	67.25	1.25	D	6	1.00	3592	1591	**1559**
South	U89-L89	594	68.22 k	68.06	1.15	D	6	1.00	4569	2024	**1991**
South	U90-L90	595	117.35 k	77.81	1.73	D	6	1.00	1341	594	**561**
South	U91-L91	596	60.30 k	41.25	1.68	D	6	1.00	1473	653	**620**
South	U92-L92	597	49.03 k	43.75	1.29	D	6	1.00	3268	1448	**1415**
South	U93-L93	598	49.36 k	48.75	1.16	D	6	1.00	4432	1963	**1930**
South	U94-L94	599	54.02 k	64.13	0.97	D	6	1.00	7697	3410	**3377**
South	U95-L95	600	58.42 k	62.38	1.08	D	6	1.00	5601	2481	**2449**
South	U96-L96	601	56.96 k	89.81	0.73	D	6	1.00	18038	7991	**7958**
South	U97-L97	602	50.53 k	43.70	1.33	D	6	1.00	2976	1318	**1285**
South	U98-L98	603	44.92 k	34.85	1.48	D	6	1.00	2148	952	**919**
South	U99-L99	604	40.69 k	27.44	1.71	D	6	1.00	1411	625	**592**
South	U100-L100	605	29.46 k	23.64	1.43	D	6	1.00	2377	1053	**1020**
South	U101-L101	606	39.73 k	27.44	1.67	D	6	1.00	1515	671	**638**
South	U102-L102	607	44.76 k	34.85	1.48	D	6	1.00	2172	962	**929**
South	U103-L103	608	49.80 k	43.70	1.31	D	6	1.00	3108	1377	**1344**
South	U104-L104	609	56.75 k	54.94	1.19	D	6	1.00	4174	1849	**1816**
South	U105-L105	610	57.69 k	58.78	1.13	D	6	1.00	4868	2156	**2124**
South	U106-L106	611	51.57 k	60.53	0.98	D	6	1.00	7441	3296	**3264**
South	U107-L107	612	49.25 k	49.25	1.15	D	6	1.00	4601	2038	**2006**
South	U108-L108	613	47.10 k	41.25	1.31	D	6	1.00	3092	1370	**1337**
South	U109-L109	614	67.28 k	42.75	1.81	D	6	1.00	1180	523	**490**
South	U110-L110	615	114.13 k	56.00	2.34	D	6	1.00	543	241	**208**
South	U111-L111	616	65.36 k	64.25	1.17	D	6	1.00	4371	1936	**1903**
South	U112-L112	617	66.83 k	69.44	1.11	D	6	1.00	5160	2286	**2253**
South	U113-L113	618	62.05 k	77.69	0.92	D	6	1.00	9031	4001	**3968**
South	U114-L114	619	54.83 k	81.13	0.78	D	6	1.00	14902	6602	**6569**
South	U115-L115	620	51.50 k	81.13	0.73	D	6	1.00	17982	7966	**7933**
South	U116-L116	621	49.21 k	64.63	0.88	D	6	1.00	10423	4618	**4585**
South	U117-L117	622	47.57 k	55.78	0.98	D	6	1.00	7417	3286	**3253**
South	U118-L118	623	26.91 k	28.97	1.07	D	6	1.00	5737	2541	**2508**
South	U119-L119	624	45.61 k	28.97	1.81	D	6	1.00	1179	522	**489**
South	U120-L120	625	46.94 k	37.78	1.43	D	6	1.00	2399	1063	**1030**
South	U121-L121	626	56.79 k	40.72	1.60	D	6	1.00	1697	752	**719**
South	U122-L122	627	66.35 k	57.31	1.33	D	6	1.00	2965	1313	**1281**
South	U123-L123	628	71.36 k	81.69	1.00	D	6	1.00	6902	3058	**3025**
South	U124-L124	629	74.14 k	85.13	1.00	D	6	1.00	6963	3085	**3052**
South	U125-L125	630	70.30 k	89.13	0.91	D	6	1.00	9375	4153	**4121**
South	U126-L126	631	69.99 k	108.06	0.74	D	6	1.00	16933	7501	**7469**
North	U0-L0	632	56.91 k	46.53	1.41	D	6	1.00	2515	1114	**1081**
North	U1-L1	633	54.99 k	53.53	1.18	D	6	1.00	4245	1881	**1848**
North	U2-L2	634	48.93 k	40.72	1.38	D	6	1.00	2651	1175	**1142**
North	U3-L3	635	43.71 k	28.97	1.74	D	6	1.00	1339	593	**560**
North	U4-L4	636	38.83 k	28.97	1.54	D	6	1.00	1910	846	**814**
North	U5-L5	637	31.03 k	21.57	1.65	D	6	1.00	1545	684	**652**
North	U6-L6	638	47.59 k	37.78	1.45	D	6	1.00	2303	1020	**987**
North	U7-L7	639	54.63 k	51.25	1.23	D	6	1.00	3799	1683	**1650**
North	U8-L8	640	53.44 k	57.03	1.08	D	6	1.00	5591	2477	**2444**
North	U9-L9	641	50.42 k	64.03	0.91	D	6	1.00	9424	4175	**4142**
North	U10-L10	642	63.83 k	64.75	1.13	D	6	1.00	4803	2128	**2095**
North	U11-L11	643	64.65 k	50.69	1.47	D	6	1.00	2217	982	**949**
North	U12-L12	644	64.53 k	46.63	1.59	D	6	1.00	1735	769	**736**
North	U13-L13	645	58.40 k	37.78	1.78	D	6	1.00	1246	552	**519**
North	U14-L14	646	44.55 k	28.97	1.77	D	6	1.00	1265	560	**528**
North	U15-L15	647	30.78 k	21.57	1.64	D	6	1.00	1583	701	**668**

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North	U16-L16	648	59.99 k	28.97	2.38	D	6	1.00	518	229	**197**
North	U17-L17	649	70.98 k	37.78	2.16	D	6	1.00	694	307	**275**
North	U18-L18	650	70.25 k	46.63	1.73	D	6	1.00	1345	596	**563**
North	U19-L19	651	63.32 k	50.69	1.44	D	6	1.00	2360	1045	**1013**
North	U20-L20	652	59.39 k	64.75	1.05	D	6	1.00	5962	2641	**2609**
North	U21-L21	653	47.20 k	46.25	1.17	D	6	1.00	4327	1917	**1884**
North	U22-L22	654	50.63 k	48.28	1.21	D	6	1.00	3991	1768	**1735**
North	U23-L23	655	50.71 k	40.72	1.43	D	6	1.00	2383	1056	**1023**
North	U24-L24	656	40.77 k	28.97	1.62	D	6	1.00	1650	731	**698**
North	U25-L25	657	30.65 k	21.57	1.63	D	6	1.00	1603	710	**677**
North	U26-L26	658	36.38 k	28.97	1.44	D	6	1.00	2322	1029	**996**
North	U27-L27	659	50.04 k	37.78	1.52	D	6	1.00	1980	877	**844**
North	U28-L28	660	54.65 k	46.25	1.36	D	6	1.00	2788	1235	**1202**
North	U29-L29	661	52.29 k	48.75	1.23	D	6	1.00	3729	1652	**1619**
North	U30-L30	662	60.94 k	102.00	0.69	D	6	1.00	21571	9556	**9523**
North	U31-L31	663	66.39 k	58.25	1.31	D	6	1.00	3108	1377	**1344**
North	U32-L32	664	64.74 k	53.75	1.39	D	6	1.00	2633	1166	**1134**
North	U33-L33	665	57.48 k	46.25	1.43	D	6	1.00	2397	1062	**1029**
North	U34-L34	666	44.46 k	28.97	1.77	D	6	1.00	1272	564	**531**
North	U35-L35	667	30.92 k	23.64	1.50	D	6	1.00	2056	911	**878**
North	U36-L36	668	58.13 k	43.70	1.53	D	6	1.00	1955	866	**833**
North	U37-L37	669	66.71 k	48.75	1.57	D	6	1.00	1795	795	**763**
North	U38-L38	670	67.33 k	53.75	1.44	D	6	1.00	2341	1037	**1004**
North	U39-L39	671	60.50 k	59.25	1.17	D	6	1.00	4321	1914	**1881**
North	U40-L40	672	54.24 k	108.13	0.58	D	6	1.00	36443	16144	**16112**
North	U41-L41	673	50.60 k	53.25	1.09	D	6	1.00	5361	2375	**2342**
North	U42-L42	674	54.38 k	48.75	1.28	D	6	1.00	3315	1469	**1436**
North	U43-L43	675	51.84 k	46.63	1.28	D	6	1.00	3348	1483	**1450**
North	U44-L44	676	41.52 k	28.97	1.65	D	6	1.00	1562	692	**659**
North	U45-L45	677	30.44 k	25.39	1.38	D	6	1.00	2668	1182	**1149**
North	U46-L46	678	40.81 k	28.97	1.62	D	6	1.00	1645	729	**696**
North	U47-L47	679	53.56 k	46.63	1.32	D	6	1.00	3035	1344	**1312**
North	U48-L48	680	54.00 k	48.75	1.27	D	6	1.00	3386	1500	**1467**
North	U49-L49	681	50.31 k	53.25	1.09	D	6	1.00	5456	2417	**2384**
North	U50-L50	682	64.81 k	128.13	0.58	D	6	1.00	35543	15746	**15713**
North	U51-L51	683	74.29 k	79.19	1.08	D	6	1.00	5572	2468	**2436**
North	U52-L52	684	77.04 k	75.69	1.17	D	6	1.00	4363	1933	**1900**
North	U53-L53	685	73.37 k	74.94	1.13	D	6	1.00	4903	2172	**2139**
North	U54-L54	686	68.39 k	64.25	1.22	D	6	1.00	3814	1690	**1657**
North	U55-L55	687	51.69 k	34.85	1.71	D	6	1.00	1410	625	**592**
North	U56-L56	688	32.21 k	28.97	1.28	D	6	1.00	3347	1483	**1450**
North	U57-L57	689	54.62 k	37.78	1.66	D	6	1.00	1523	675	**642**
North	U58-L58	690	71.40 k	68.69	1.20	D	6	1.00	4096	1815	**1782**
North	U59-L59	691	73.05 k	78.38	1.07	D	6	1.00	5682	2517	**2485**
North	U60-L60	692	71.92 k	78.69	1.05	D	6	1.00	6026	2670	**2637**
North	U61-L61	693	69.24 k	81.69	0.97	D	6	1.00	7556	3347	**3315**
North	U62-L62	694	60.06 k	115.13	0.60	D	6	1.00	32396	14351	**14318**
North	U63-L63	695	45.83 k	55.25	0.95	D	6	1.00	8059	3570	**3537**
North	U64-L64	696	49.66 k	50.75	1.13	D	6	1.00	4911	2175	**2143**
North	U65-L65	697	52.74 k	53.78	1.13	D	6	1.00	4878	2161	**2128**
North	U66-L66	698	50.00 k	43.70	1.32	D	6	1.00	3071	1360	**1328**
North	U67-L67	699	38.56 k	28.97	1.53	D	6	1.00	1950	864	**831**
North	U68-L68	700	28.88 k	28.97	1.15	D	6	1.00	4640	2056	**2023**
North	U69-L69	701	38.56 k	28.97	1.53	D	6	1.00	1951	864	**832**
North	U70-L70	702	51.78 k	43.70	1.36	D	6	1.00	2764	1225	**1192**

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North	U71-L71	703	55.38 k	53.75	1.18	D	6	1.00	4206	1863	**1830**
North	U72-L72	704	52.97 k	54.25	1.12	D	6	1.00	4943	2190	**2157**
North	U73-L73	705	46.92 k	59.00	0.91	D	6	1.00	9150	4054	**4021**
North	U74-L74	706	69.28 k	122.53	0.65	D	6	1.00	25450	11274	**11241**
North	U75-L75	707	76.46 k	79.19	1.11	D	6	1.00	5110	2264	**2231**
North	U76-L76	708	78.84 k	75.69	1.20	D	6	1.00	4070	1803	**1770**
North	U77-L77	709	78.14 k	82.59	1.09	D	6	1.00	5433	2407	**2374**
North	U78-L78	710	74.43 k	71.53	1.20	D	6	1.00	4084	1809	**1777**
North	U79-L79	711	65.82 k	56.25	1.35	D	6	1.00	2872	1272	**1239**
North	U80-L80	712	55.09 k	49.78	1.27	D	6	1.00	3395	1504	**1471**
North	U81-L81	713	50.25 k	28.97	1.99	D	6	1.00	881	390	**358**
North	U82-L82	714	29.04 k	28.97	1.15	D	6	1.00	4565	2022	**1990**
North	U83-L83	715	52.36 k	48.28	1.25	D	6	1.00	3607	1598	**1565**
North	U84-L84	716	59.70 k	60.63	1.13	D	6	1.00	4817	2134	**2101**
North	U85-L85	717	64.56 k	80.22	0.93	D	6	1.00	8825	3909	**3877**
North	U86-L86	718	68.32 k	80.63	0.97	D	6	1.00	7563	3350	**3317**
North	U87-L87	719	67.08 k	77.09	1.00	D	6	1.00	6986	3095	**3062**
North	U88-L88	720	73.56 k	67.25	1.26	D	6	1.00	3516	1558	**1525**
North	U89-L89	721	69.09 k	68.06	1.17	D	6	1.00	4399	1949	**1916**
North	U90-L90	722	119.37 k	77.81	1.76	D	6	1.00	1275	565	**532**
North	U91-L91	723	60.16 k	41.25	1.68	D	6	1.00	1483	657	**624**
North	U92-L92	724	48.88 k	43.75	1.28	D	6	1.00	3298	1461	**1428**
North	U93-L93	725	49.25 k	48.75	1.16	D	6	1.00	4462	1977	**1944**
North	U94-L94	726	53.89 k	64.13	0.97	D	6	1.00	7753	3435	**3402**
North	U95-L95	727	58.66 k	62.38	1.08	D	6	1.00	5531	2450	**2417**
North	U96-L96	728	57.22 k	89.81	0.73	D	6	1.00	17792	7882	**7849**
North	U97-L97	729	50.42 k	43.70	1.33	D	6	1.00	2995	1327	**1294**
North	U98-L98	730	44.65 k	34.85	1.47	D	6	1.00	2188	969	**937**
North	U99-L99	731	40.29 k	27.44	1.69	D	6	1.00	1452	643	**611**
North	U100-L100	732	29.13 k	23.64	1.42	D	6	1.00	2459	1089	**1056**
North	U101-L101	733	40.37 k	27.44	1.69	D	6	1.00	1445	640	**607**
North	U102-L102	734	44.90 k	34.85	1.48	D	6	1.00	2151	953	**920**
North	U103-L103	735	49.95 k	43.70	1.31	D	6	1.00	3080	1365	**1332**
North	U104-L104	736	56.68 k	44.94	1.45	D	6	1.00	2292	1015	**983**
North	U105-L105	737	57.66 k	48.28	1.37	D	6	1.00	2701	1197	**1164**
North	U106-L106	738	51.81 k	48.28	1.23	D	6	1.00	3723	1649	**1617**
North	U107-L107	739	49.48 k	48.28	1.18	D	6	1.00	4274	1893	**1861**
North	U108-L108	740	47.15 k	41.25	1.31	D	6	1.00	3082	1365	**1332**
North	U109-L109	741	67.83 k	58.75	1.33	D	6	1.00	2989	1324	**1291**
North	U110-L110	742	120.07 k	56.00	2.47	D	6	1.00	467	207	**174**
North	U111-L111	743	70.29 k	64.25	1.26	D	6	1.00	3514	1557	**1524**
North	U112-L112	744	71.49 k	69.44	1.18	D	6	1.00	4216	1868	**1835**
North	U113-L113	745	68.20 k	91.11	0.86	D	6	1.00	10968	4859	**4826**
North	U114-L114	746	62.76 k	87.73	0.82	D	6	1.00	12567	5567	**5535**
North	U115-L115	747	60.64 k	75.73	0.92	D	6	1.00	8962	3970	**3937**
North	U116-L116	748	59.09 k	62.63	1.09	D	6	1.00	5476	2426	**2393**
North	U117-L117	749	57.27 k	53.53	1.23	D	6	1.00	3757	1664	**1631**
North	U118-L118	750	33.26 k	28.97	1.32	D	6	1.00	3039	1346	**1313**
North	U119-L119	751	53.91 k	28.97	2.14	D	6	1.00	714	316	**283**
North	U120-L120	752	54.65 k	31.93	1.97	D	6	1.00	917	406	**373**
North	U121-L121	753	62.90 k	46.63	1.55	D	6	1.00	1874	830	**797**
North	U122-L122	754	72.79 k	68.63	1.22	D	6	1.00	3855	1708	**1675**
North	U123-L123	755	76.59 k	68.69	1.28	D	6	1.00	3318	1470	**1437**
North	U124-L124	756	77.17 k	83.44	1.06	D	6	1.00	5815	2576	**2543**
North	U125-L125	757	70.24 k	79.19	1.02	D	6	1.00	6592	2920	**2888**

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North	U126-L126	758	63.75 k	110.55	0.66	D	6	1.00	23994	10629	**10597**
South	U0-L1	759	56.92 k	43.70	1.50	D	6	1.00	2082	922	**889**
South	U1-L2	760	59.30 k	43.70	1.56	D	6	1.00	1841	815	**783**
South	U2-L3	761	57.97 k	34.85	1.91	D	6	1.00	1000	443	**410**
South	U3-L4	762	58.12 k	28.97	2.31	D	6	1.00	570	252	**220**
South	U4-L5	763	62.37 k	37.78	1.90	D	6	1.00	1023	453	**420**
South	U6-L5	764	69.13 k	43.70	1.82	D	6	1.00	1162	515	**482**
South	U7-L6	765	73.64 k	57.03	1.48	D	6	1.00	2137	947	**914**
South	U8-L7	766	63.52 k	55.28	1.32	D	6	1.00	3032	1343	**1311**
South	U9-L8	767	51.95 k	46.63	1.28	D	6	1.00	3326	1474	**1441**
South	U10-L9	768	42.18 k	37.78	1.28	D	6	1.00	3307	1465	**1432**
South	U10-L11	769	67.61 k	37.78	2.06	D	6	1.00	803	356	**323**
South	U11-L12	770	71.72 k	37.78	2.18	D	6	1.00	673	298	**265**
South	U12-L13	771	76.96 k	40.72	2.17	D	6	1.00	682	302	**269**
South	U13-L14	772	75.25 k	34.85	2.48	D	6	1.00	457	202	**170**
South	U14-L15	773	69.55 k	28.97	2.76	D	6	1.00	332	147	**114**
South	U16-L15	774	83.87 k	28.97	3.33	D	6	1.00	190	84	**51**
South	U17-L16	775	95.37 k	34.85	3.15	D	6	1.00	225	99	**67**
South	U18-L17	776	82.47 k	37.78	2.51	D	6	1.00	442	196	**163**
South	U19-L18	777	65.26 k	37.78	1.99	D	6	1.00	893	396	**363**
South	U20-L19	778	57.03 k	48.28	1.36	D	6	1.00	2791	1236	**1204**
South	U20-L21	779	36.96 k	37.78	1.12	D	6	1.00	4915	2177	**2144**
South	U21-L22	780	42.69 k	31.93	1.54	D	6	1.00	1924	853	**820**
South	U22-L23	781	54.36 k	37.78	1.65	D	6	1.00	1545	684	**652**
South	U23-L24	782	60.67 k	37.78	1.85	D	6	1.00	1111	492	**459**
South	U24-L25	783	52.04 k	28.97	2.07	D	6	1.00	793	351	**319**
South	U26-L25	784	45.42 k	28.97	1.80	D	6	1.00	1194	529	**496**
South	U27-L26	785	52.77 k	28.97	2.10	D	6	1.00	761	337	**304**
South	U28-L27	786	55.86 k	31.93	2.01	D	6	1.00	859	381	**348**
South	U29-L28	787	47.71 k	31.93	1.72	D	6	1.00	1379	611	**578**
South	U30-L29	788	39.03 k	28.97	1.55	D	6	1.00	1881	833	**800**
South	U30-L31	789	62.67 k	37.78	1.91	D	6	1.00	1008	447	**414**
South	U31-L32	790	68.43 k	46.63	1.69	D	6	1.00	1455	645	**612**
South	U32-L33	791	69.85 k	50.03	1.61	D	6	1.00	1691	749	**716**
South	U33-L34	792	67.15 k	43.70	1.77	D	6	1.00	1268	562	**529**
South	U34-L35	793	64.61 k	28.97	2.56	D	6	1.00	415	184	**151**
South	U36-L35	794	74.99 k	28.97	2.98	D	6	1.00	265	117	**85**
South	U37-L36	795	80.19 k	43.70	2.11	D	6	1.00	744	330	**297**
South	U38-L37	796	70.82 k	50.03	1.63	D	6	1.00	1622	719	**686**
South	U39-L38	797	57.19 k	43.70	1.51	D	6	1.00	2052	909	**876**
South	U40-L39	798	48.87 k	37.78	1.49	D	6	1.00	2125	942	**909**
South	U40-L41	799	34.61 k	28.97	1.37	D	6	1.00	2698	1195	**1162**
South	U41-L42	800	43.84 k	34.85	1.45	D	6	1.00	2312	1024	**991**
South	U42-L43	801	53.88 k	37.78	1.64	D	6	1.00	1586	703	**670**
South	U43-L44	802	56.27 k	34.85	1.86	D	6	1.00	1093	484	**451**
South	U44-L45	803	49.77 k	21.57	2.65	D	6	1.00	374	166	**133**
South	U46-L45	804	49.75 k	21.57	2.65	D	6	1.00	375	166	**133**
South	U47-L46	805	59.95 k	34.85	1.98	D	6	1.00	904	400	**368**
South	U48-L47	806	56.66 k	37.78	1.72	D	6	1.00	1364	604	**571**
South	U49-L48	807	43.55 k	34.85	1.44	D	6	1.00	2358	1045	**1012**
South	U50-L49	808	36.73 k	28.97	1.46	D	6	1.00	2257	1000	**967**
South	U50-L51	809	58.17 k	37.78	1.77	D	6	1.00	1261	559	**526**
South	U51-L52	810	63.89 k	43.70	1.68	D	6	1.00	1472	652	**619**
South	U52-L53	811	64.74 k	46.63	1.60	D	6	1.00	1719	761	**729**
South	U53-L54	812	66.54 k	43.70	1.75	D	6	1.00	1303	577	**544**

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South	U54-L55	813	64.93 k	37.78	1.98	D	6	1.00	906	402	**369**
South	U55-L56	814	61.57 k	37.78	1.87	D	6	1.00	1063	471	**438**
South	U57-L56	815	63.90 k	28.97	2.54	D	6	1.00	429	190	**157**
South	U58-L57	816	72.32 k	43.70	1.90	D	6	1.00	1015	450	**417**
South	U59-L58	817	68.13 k	48.28	1.62	D	6	1.00	1637	725	**692**
South	U60-L59	818	58.35 k	46.63	1.44	D	6	1.00	2348	1040	**1007**
South	U61-L60	819	53.96 k	40.72	1.52	D	6	1.00	1978	876	**843**
South	U62-L61	820	47.34 k	41.25	1.32	D	6	1.00	3043	1348	**1315**
South	U62-L63	821	31.84 k	41.25	0.89	D	6	1.00	10006	4433	**4400**
South	U63-L64	822	38.75 k	31.93	1.40	D	6	1.00	2573	1140	**1107**
South	U64-L65	823	46.93 k	34.85	1.55	D	6	1.00	1885	835	**802**
South	U65-L66	824	55.48 k	37.78	1.69	D	6	1.00	1453	644	**611**
South	U66-L67	825	54.12 k	31.93	1.95	D	6	1.00	944	418	**386**
South	U67-L68	826	46.74 k	25.39	2.12	D	6	1.00	737	327	**294**
South	U69-L68	827	45.68 k	21.57	2.44	D	6	1.00	484	215	**182**
South	U70-L69	828	54.69 k	31.93	1.97	D	6	1.00	915	405	**373**
South	U71-L70	829	56.77 k	37.78	1.73	D	6	1.00	1357	601	**568**
South	U72-L71	830	49.26 k	37.78	1.50	D	6	1.00	2076	919	**887**
South	U73-L72	831	41.10 k	31.93	1.48	D	6	1.00	2156	955	**922**
South	U74-L73	832	32.87 k	41.25	0.92	D	6	1.00	9093	4028	**3995**
South	U74-L75	833	72.49 k	53.75	1.55	D	6	1.00	1876	831	**798**
South	U75-L76	834	79.21 k	58.03	1.57	D	6	1.00	1809	801	**769**
South	U76-L77	835	80.47 k	65.88	1.40	D	6	1.00	2524	1118	**1085**
South	U77-L78	836	86.63 k	67.63	1.47	D	6	1.00	2188	969	**937**
South	U78-L79	837	86.22 k	64.03	1.55	D	6	1.00	1884	835	**802**
South	U79-L80	838	80.50 k	43.70	2.12	D	6	1.00	736	326	**293**
South	U80-L81	839	68.09 k	34.85	2.25	D	6	1.00	617	273	**241**
South	U81-L82	840	70.37 k	43.70	1.85	D	6	1.00	1102	488	**455**
South	U83-L82	841	71.53 k	46.63	1.76	D	6	1.00	1274	564	**532**
South	U84-L83	842	74.11 k	71.13	1.20	D	6	1.00	4068	1802	**1769**
South	U85-L84	843	79.50 k	67.63	1.35	D	6	1.00	2832	1254	**1222**
South	U86-L85	844	78.37 k	74.63	1.21	D	6	1.00	3972	1759	**1727**
South	U87-L86	845	72.95 k	71.13	1.18	D	6	1.00	4265	1889	**1857**
South	U88-L87	846	72.64 k	56.91	1.47	D	6	1.00	2212	980	**947**
South	U89-L88	847	68.63 k	51.25	1.54	D	6	1.00	1916	849	**816**
South	U90-L89	848	63.10 k	61.75	1.18	D	6	1.00	4313	1911	**1878**
South	U90-L91	849	71.31 k	53.75	1.53	D	6	1.00	1970	873	**840**
South	U91-L92	850	54.22 k	41.25	1.51	D	6	1.00	2026	898	**865**
South	U92-L93	851	38.98 k	37.78	1.19	D	6	1.00	4191	1856	**1824**
South	U93-L94	852	45.50 k	40.72	1.28	D	6	1.00	3298	1461	**1428**
South	U94-L95	853	64.44 k	60.63	1.22	D	6	1.00	3832	1698	**1665**
South	U95-L96	854	76.74 k	71.13	1.24	D	6	1.00	3663	1623	**1590**
South	U96-L97	855	75.04 k	64.03	1.35	D	6	1.00	2859	1267	**1234**
South	U97-L98	856	69.12 k	48.28	1.65	D	6	1.00	1568	695	**662**
South	U98-L99	857	64.13 k	34.85	2.12	D	6	1.00	738	327	**294**
South	U99-L100	858	64.31 k	28.97	2.55	D	6	1.00	420	186	**153**
South	U101-L100	859	64.39 k	28.97	2.56	D	6	1.00	419	186	**153**
South	U102-L101	860	65.06 k	31.93	2.34	D	6	1.00	544	241	**208**
South	U103-L102	861	70.98 k	48.28	1.69	D	6	1.00	1448	641	**609**
South	U104-L103	862	77.30 k	64.03	1.39	D	6	1.00	2615	1159	**1126**
South	U105-L104	863	79.04 k	71.70	1.27	D	6	1.00	3434	1521	**1488**
South	U106-L105	864	63.88 k	60.63	1.21	D	6	1.00	3934	1743	**1710**
South	U107-L106	865	46.51 k	43.70	1.22	D	6	1.00	3815	1690	**1657**
South	U108-L107	866	40.48 k	28.97	1.61	D	6	1.00	1686	747	**714**
South	U109-L108	867	60.94 k	41.25	1.70	D	6	1.00	1427	632	**599**

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South	U110-L109	868	73.32 k	53.25	1.58	D	6	1.00	1763	781	**748**
South	U110-L111	869	63.91 k	54.69	1.34	D	6	1.00	2882	1277	**1244**
South	U111-L112	870	66.50 k	48.75	1.57	D	6	1.00	1813	803	**770**
South	U112-L113	871	69.53 k	48.28	1.66	D	6	1.00	1541	682	**650**
South	U113-L114	872	67.75 k	58.88	1.32	D	6	1.00	3020	1338	**1305**
South	U114-L115	873	61.48 k	65.88	1.07	D	6	1.00	5660	2507	**2475**
South	U115-L116	874	62.33 k	58.88	1.22	D	6	1.00	3877	1717	**1685**
South	U116-L117	875	61.75 k	60.63	1.17	D	6	1.00	4353	1928	**1896**
South	U117-L118	876	61.92 k	50.03	1.42	D	6	1.00	2427	1075	**1042**
South	U119-L118	877	60.53 k	53.53	1.30	D	6	1.00	3182	1410	**1377**
South	U120-L119	878	59.01 k	40.72	1.67	D	6	1.00	1512	670	**637**
South	U121-L120	879	65.34 k	28.97	2.59	D	6	1.00	401	178	**145**
South	U122-L121	880	73.45 k	43.70	1.93	D	6	1.00	969	429	**396**
South	U123-L122	881	76.81 k	55.78	1.58	D	6	1.00	1762	781	**748**
South	U124-L123	882	74.46 k	67.78	1.26	D	6	1.00	3471	1538	**1505**
South	U125-L124	883	69.70 k	64.63	1.24	D	6	1.00	3668	1625	**1592**
South	U126-L125	884	61.44 k	64.63	1.09	D	6	1.00	5355	2372	**2340**
North	U0-L1	885	56.92 k	43.70	1.50	D	6	1.00	2082	922	**890**
North	U1-L2	886	59.30 k	43.70	1.56	D	6	1.00	1841	816	**783**
North	U2-L3	887	57.97 k	34.85	1.91	D	6	1.00	999	443	**410**
North	U3-L4	888	58.11 k	28.97	2.31	D	6	1.00	570	252	**220**
North	U4-L5	889	62.34 k	37.78	1.90	D	6	1.00	1024	454	**421**
North	U6-L5	890	69.11 k	43.70	1.82	D	6	1.00	1163	515	**482**
North	U7-L6	891	73.64 k	57.03	1.48	D	6	1.00	2137	947	**914**
North	U8-L7	892	63.53 k	55.28	1.32	D	6	1.00	3032	1343	**1310**
North	U9-L8	893	51.95 k	46.63	1.28	D	6	1.00	3327	1474	**1441**
North	U10-L9	894	42.18 k	37.78	1.28	D	6	1.00	3306	1464	**1432**
North	U10-L11	895	67.66 k	37.78	2.06	D	6	1.00	801	355	**322**
North	U11-L12	896	71.76 k	37.78	2.18	D	6	1.00	672	298	**265**
North	U12-L13	897	77.00 k	40.72	2.17	D	6	1.00	680	301	**269**
North	U13-L14	898	75.26 k	34.85	2.48	D	6	1.00	457	202	**170**
North	U14-L15	899	69.51 k	28.97	2.76	D	6	1.00	333	147	**115**
North	U16-L15	900	83.88 k	28.97	3.33	D	6	1.00	189	84	**51**
North	U17-L16	901	95.42 k	34.85	3.15	D	6	1.00	224	99	**67**
North	U18-L17	902	82.52 k	37.78	2.51	D	6	1.00	442	196	**163**
North	U19-L18	903	65.33 k	37.78	1.99	D	6	1.00	890	394	**362**
North	U20-L19	904	57.12 k	48.28	1.36	D	6	1.00	2778	1231	**1198**
North	U20-L21	905	36.98 k	37.78	1.13	D	6	1.00	4905	2173	**2140**
North	U21-L22	906	42.68 k	31.93	1.54	D	6	1.00	1926	853	**821**
North	U22-L23	907	54.33 k	37.78	1.65	D	6	1.00	1547	685	**653**
North	U23-L24	908	60.66 k	37.78	1.85	D	6	1.00	1111	492	**460**
North	U24-L25	909	52.04 k	28.97	2.07	D	6	1.00	794	352	**319**
North	U26-L25	910	45.41 k	28.97	1.80	D	6	1.00	1194	529	**496**
North	U27-L26	911	52.78 k	28.97	2.10	D	6	1.00	761	337	**304**
North	U28-L27	912	55.86 k	31.93	2.01	D	6	1.00	859	380	**348**
North	U29-L28	913	47.70 k	31.93	1.72	D	6	1.00	1379	611	**578**
North	U30-L29	914	39.09 k	28.97	1.55	D	6	1.00	1873	830	**797**
North	U30-L31	915	62.87 k	37.78	1.91	D	6	1.00	999	442	**410**
North	U31-L32	916	68.65 k	46.63	1.69	D	6	1.00	1441	638	**606**
North	U32-L33	917	70.50 k	50.03	1.62	D	6	1.00	1644	728	**696**
North	U33-L34	918	68.14 k	43.70	1.79	D	6	1.00	1213	538	**505**
North	U34-L35	919	64.80 k	28.97	2.57	D	6	1.00	411	182	**149**
North	U36-L35	920	74.50 k	28.97	2.96	D	6	1.00	270	120	**87**
North	U37-L36	921	79.96 k	43.70	2.10	D	6	1.00	751	333	**300**
North	U38-L37	922	71.01 k	50.03	1.63	D	6	1.00	1609	713	**680**

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North	U39-L38	923	57.64 k	43.70	1.52	D	6	1.00	2004	888	**855**
North	U40-L39	924	49.46 k	37.78	1.51	D	6	1.00	2051	909	**876**
North	U40-L41	925	34.66 k	28.97	1.38	D	6	1.00	2685	1189	**1157**
North	U41-L42	926	44.09 k	34.85	1.46	D	6	1.00	2272	1006	**973**
North	U42-L43	927	54.53 k	37.78	1.66	D	6	1.00	1531	678	**645**
North	U43-L44	928	56.96 k	34.85	1.88	D	6	1.00	1054	467	**434**
North	U44-L45	929	50.14 k	21.57	2.67	D	6	1.00	366	162	**129**
North	U46-L45	930	49.81 k	21.57	2.66	D	6	1.00	373	165	**133**
North	U47-L46	931	58.60 k	34.85	1.93	D	6	1.00	968	429	**396**
North	U48-L47	932	56.00 k	37.78	1.70	D	6	1.00	1413	626	**593**
North	U49-L48	933	43.95 k	34.85	1.45	D	6	1.00	2295	1017	**984**
North	U50-L49	934	33.74 k	37.78	1.03	D	6	1.00	6458	2861	**2828**
North	U50-L51	935	67.36 k	53.53	1.45	D	6	1.00	2309	1023	**990**
North	U51-L52	936	75.86 k	53.53	1.63	D	6	1.00	1617	716	**684**
North	U52-L53	937	79.05 k	55.38	1.64	D	6	1.00	1582	701	**668**
North	U53-L54	938	82.15 k	55.38	1.71	D	6	1.00	1409	624	**591**
North	U54-L55	939	81.06 k	55.28	1.69	D	6	1.00	1460	647	**614**
North	U55-L56	940	70.38 k	28.97	2.79	D	6	1.00	321	142	**109**
North	U57-L56	941	72.73 k	31.93	2.62	D	6	1.00	389	172	**140**
North	U58-L57	942	86.70 k	53.53	1.86	D	6	1.00	1083	480	**447**
North	U59-L58	943	82.96 k	62.38	1.53	D	6	1.00	1956	866	**834**
North	U60-L59	944	73.59 k	62.38	1.36	D	6	1.00	2802	1241	**1208**
North	U61-L60	945	67.88 k	60.63	1.29	D	6	1.00	3278	1452	**1419**
North	U62-L61	946	59.45 k	48.28	1.42	D	6	1.00	2465	1092	**1059**
North	U62-L63	947	30.92 k	28.97	1.23	D	6	1.00	3782	1675	**1643**
North	U63-L64	948	38.61 k	31.93	1.39	D	6	1.00	2600	1152	**1119**
North	U64-L65	949	46.90 k	34.85	1.55	D	6	1.00	1887	836	**803**
North	U65-L66	950	55.18 k	37.78	1.68	D	6	1.00	1477	654	**622**
North	U66-L67	951	53.77 k	31.93	1.94	D	6	1.00	963	427	**394**
North	U67-L68	952	46.20 k	25.39	2.09	D	6	1.00	764	338	**306**
North	U69-L68	953	45.41 k	21.57	2.42	D	6	1.00	493	218	**186**
North	U70-L69	954	54.56 k	31.93	1.97	D	6	1.00	922	408	**376**
North	U71-L70	955	56.59 k	37.78	1.72	D	6	1.00	1369	607	**574**
North	U72-L71	956	49.17 k	37.78	1.50	D	6	1.00	2087	924	**892**
North	U73-L72	957	40.97 k	31.93	1.48	D	6	1.00	2178	965	**932**
North	U74-L73	958	32.83 k	41.25	0.92	D	6	1.00	9123	4041	**4009**
North	U74-L75	959	73.17 k	53.75	1.57	D	6	1.00	1824	808	**775**
North	U75-L76	960	79.58 k	58.03	1.58	D	6	1.00	1784	790	**757**
North	U76-L77	961	80.72 k	65.88	1.41	D	6	1.00	2501	1108	**1075**
North	U77-L78	962	87.25 k	67.63	1.48	D	6	1.00	2142	949	**916**
North	U78-L79	963	86.86 k	64.03	1.56	D	6	1.00	1843	817	**784**
North	U79-L80	964	80.99 k	43.70	2.13	D	6	1.00	723	320	**287**
North	U80-L81	965	68.26 k	34.85	2.25	D	6	1.00	612	271	**238**
North	U81-L82	966	70.42 k	43.70	1.85	D	6	1.00	1099	487	**454**
North	U83-L82	967	71.51 k	46.63	1.76	D	6	1.00	1275	565	**532**
North	U84-L83	968	74.08 k	71.13	1.20	D	6	1.00	4071	1804	**1771**
North	U85-L84	969	79.53 k	67.63	1.35	D	6	1.00	2829	1253	**1220**
North	U86-L85	970	78.51 k	74.63	1.21	D	6	1.00	3951	1750	**1718**
North	U87-L86	971	73.59 k	71.13	1.19	D	6	1.00	4153	1840	**1807**
North	U88-L87	972	73.29 k	56.91	1.48	D	6	1.00	2153	954	**921**
North	U89-L88	973	69.38 k	51.25	1.56	D	6	1.00	1854	821	**789**
North	U90-L89	974	64.47 k	61.75	1.20	D	6	1.00	4043	1791	**1758**
North	U90-L91	975	71.83 k	53.75	1.54	D	6	1.00	1928	854	**821**
North	U91-L92	976	54.28 k	41.25	1.51	D	6	1.00	2019	895	**862**
North	U92-L93	977	39.13 k	37.78	1.19	D	6	1.00	4142	1835	**1802**

As-Built Fatigue Summary

Made By: DWC Date: 3/30/2012 Job No.: P402110046

Checked By: ADK Date: 3/30/2012 Sheet No.:

CUY-2-1441 Main Truss Spans - As-Built Fatigue Summary

North	U93-L94	978	45.39 k	40.72	1.28	D	6	1.00	3323	1472	**1439**
North	U94-L95	979	64.78 k	60.63	1.23	D	6	1.00	3771	1671	**1638**
North	U95-L96	980	77.09 k	71.13	1.25	D	6	1.00	3613	1600	**1568**
North	U96-L97	981	74.94 k	64.03	1.35	D	6	1.00	2870	1271	**1239**
North	U97-L98	982	68.36 k	48.28	1.63	D	6	1.00	1621	718	**685**
North	U98-L99	983	63.08 k	34.85	2.08	D	6	1.00	776	344	**311**
North	U99-L100	984	63.12 k	28.97	2.51	D	6	1.00	445	197	**164**
North	U101-L100	985	63.42 k	28.97	2.52	D	6	1.00	438	194	**161**
North	U102-L101	986	63.94 k	31.93	2.30	D	6	1.00	573	254	**221**
North	U103-L102	987	69.41 k	48.28	1.65	D	6	1.00	1548	686	**653**
North	U104-L103	988	75.25 k	64.03	1.35	D	6	1.00	2834	1256	**1223**
North	U105-L104	989	76.89 k	71.70	1.23	D	6	1.00	3730	1652	**1620**
North	U106-L105	990	62.85 k	60.63	1.19	D	6	1.00	4130	1830	**1797**
North	U107-L106	991	46.45 k	43.70	1.22	D	6	1.00	3830	1697	**1664**
North	U108-L107	992	40.11 k	28.97	1.59	D	6	1.00	1733	768	**735**
North	U109-L108	993	59.54 k	41.25	1.66	D	6	1.00	1530	678	**645**
North	U110-L109	994	73.22 k	53.25	1.58	D	6	1.00	1770	784	**751**
North	U110-L111	995	64.40 k	54.69	1.35	D	6	1.00	2817	1248	**1215**
North	U111-L112	996	70.30 k	48.75	1.66	D	6	1.00	1535	680	**647**
North	U112-L113	997	74.45 k	48.28	1.77	D	6	1.00	1255	556	**523**
North	U113-L114	998	74.71 k	58.88	1.46	D	6	1.00	2252	997	**965**
North	U114-L115	999	70.94 k	65.88	1.24	D	6	1.00	3684	1632	**1599**
North	U115-L116	1000	73.48 k	58.88	1.44	D	6	1.00	2366	1048	**1016**
North	U116-L117	1001	72.75 k	60.63	1.38	D	6	1.00	2663	1180	**1147**
North	U117-L118	1002	72.96 k	50.03	1.68	D	6	1.00	1484	657	**624**
North	U119-L118	1003	70.88 k	53.53	1.52	D	6	1.00	1982	878	**845**
North	U120-L119	1004	68.09 k	40.72	1.92	D	6	1.00	984	436	**403**
North	U121-L120	1005	71.23 k	28.97	2.83	D	6	1.00	309	137	**104**
North	U122-L121	1006	80.31 k	43.70	2.11	D	6	1.00	741	328	**295**
North	U123-L122	1007	83.90 k	55.78	1.73	D	6	1.00	1352	599	**566**
North	U124-L123	1008	80.28 k	67.78	1.36	D	6	1.00	2769	1227	**1194**
North	U125-L124	1009	73.47 k	64.63	1.31	D	6	1.00	3131	1387	**1354**
North	U126-L125	1010	61.96 k	64.63	1.10	D	6	1.00	5222	2313	**2280**

AS-INSPECTED RATINGS

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	L0-L1	1	42.19	31.64	21.10	10.46	0.750	18.16	Carbon	32.69	1172.22	1392.32	1898.61	1392.32
South	L1-L2	2	42.42	31.82	20.70	10.46	0.750	17.81	Carbon	32.70	1179.06	1399.92	1908.98	1399.92
South	L2-L3	3	59.73	44.80	20.30	10.38	0.750	17.61	Carbon	32.71	1660.58	1971.23	2688.05	1971.23
South	L3-L4	4	84.78	63.59	20.10	9.86	0.750	18.34	Carbon	32.68	2355.05	2797.78	3815.16	2797.78
South	L4-L5	5	96.50	72.38	20.00	9.93	0.750	18.13	Carbon	32.69	2681.18	3184.50	4342.50	3184.50
South	L5-L6	6	44.03	33.02	20.00	10.41	0.750	17.29	Carbon	32.72	1224.43	1453.03	1981.41	1453.03
South	L6-L7	7	42.11	31.58	20.20	10.46	0.750	17.38	Carbon	32.71	1170.89	1389.61	1894.92	1389.61
South	L7-L8	8	46.11	34.58	20.60	10.43	0.750	17.77	Carbon	32.70	1281.59	1521.61	2074.92	1521.61
South	L8-L9	9	75.80	56.85	21.10	9.93	0.750	19.12	Carbon	32.65	2103.71	2501.30	3410.86	2501.30
South	L9-L10	10	99.44	74.58	22.10	9.85	0.750	20.19	Carbon	32.61	2756.44	3281.44	4474.69	3281.44
South	L10-L11	11	99.75	74.81	22.20	9.86	0.750	20.26	Carbon	32.61	2764.87	3291.75	4488.75	3291.75
South	L11-L12	12	96.50	72.38	21.20	9.93	0.750	19.22	Carbon	32.65	2678.01	3184.50	4342.50	3184.50
South	L12-L13	13	90.05	67.54	20.50	9.98	0.750	18.49	Carbon	32.67	2500.94	2971.55	4052.11	2971.55
South	L13-L14	14	90.05	67.54	20.20	9.98	0.750	18.21	Carbon	32.68	2501.66	2971.55	4052.11	2971.55
South	L14-L15	15	93.25	69.94	20.00	10.00	0.750	18.00	Carbon	32.69	2591.24	3077.25	4196.25	3077.25
South	L15-L16	16	90.00	67.50	20.00	10.04	0.750	17.92	Carbon	32.69	2501.13	2970.00	4050.00	2970.00
South	L16-L17	17	73.28	54.96	20.30	10.30	0.750	17.74	Carbon	32.70	2036.90	2418.28	3297.66	2418.28
South	L17-L18	18	63.30	47.47	20.90	10.23	0.750	18.39	Carbon	32.68	1758.17	2088.80	2848.36	2088.80
South	L18-L19	19	64.55	48.41	22.10	10.29	0.750	19.34	Carbon	32.64	1791.03	2130.05	2904.61	2130.05
South	L19-L20	20	67.80	50.85	23.50	10.17	0.750	20.80	Carbon	32.59	1878.00	2237.30	3050.86	2237.30
South	L20-L21	21	67.06	50.30	23.70	10.14	0.750	21.04	Carbon	32.58	1857.09	2213.06	3017.81	2213.06
South	L21-L22	22	58.25	43.69	22.20	10.10	0.750	19.79	Carbon	32.63	1615.47	1922.25	2621.25	1922.25
South	L22-L23	23	45.67	34.25	21.00	10.36	0.750	18.25	Carbon	32.68	1268.80	1507.17	2055.23	1507.17
South	L23-L24	24	42.42	31.82	20.30	10.46	0.750	17.46	Carbon	32.71	1179.48	1399.92	1908.98	1399.92
South	L24-L25	25	42.42	31.82	20.00	10.46	0.750	17.20	Carbon	32.72	1179.78	1399.92	1908.98	1399.92
South	L25-L26	26	44.05	33.04	20.00	10.44	0.750	17.24	Carbon	32.72	1224.94	1453.55	1982.11	1453.55
South	L26-L27	27	42.42	31.82	20.40	10.46	0.750	17.55	Carbon	32.71	1179.37	1399.92	1908.98	1399.92
South	L27-L28	28	37.28	27.96	21.20	10.05	0.750	18.99	Carbon	32.66	1034.86	1230.28	1677.66	1230.28
South	L28-L29	29	37.36	28.02	23.00	10.07	0.750	20.57	Carbon	32.60	1035.16	1232.86	1681.17	1232.86
South	L29-L30	30	45.48	34.11	25.50	9.95	0.750	23.07	Carbon	32.49	1256.26	1500.98	2046.80	1500.98
South	L30-L31	31	48.92	36.69	25.70	10.20	0.750	22.69	Carbon	32.51	1351.90	1614.42	2201.48	1614.42
South	L31-L32	32	45.67	34.25	23.20	10.36	0.750	20.16	Carbon	32.61	1266.08	1507.17	2055.23	1507.17
South	L32-L33	33	45.13	33.85	21.30	10.33	0.750	18.56	Carbon	32.67	1253.34	1489.30	2030.86	1489.30
South	L33-L34	34	62.77	47.07	20.40	10.41	0.750	17.63	Carbon	32.70	1744.80	2071.27	2824.45	2071.27
South	L34-L35	35	105.80	79.35	20.00	9.36	0.750	19.24	Carbon	32.65	2935.95	3491.30	4760.86	3491.30
South	L35-L36	36	105.80	79.35	20.10	9.36	0.750	19.33	Carbon	32.64	2935.63	3491.30	4760.86	3491.30
South	L36-L37	37	57.57	43.18	20.50	10.37	0.750	17.79	Carbon	32.70	1600.23	1899.95	2590.84	1899.95
South	L37-L38	38	45.67	34.25	22.40	10.36	0.750	19.47	Carbon	32.64	1267.10	1507.17	2055.23	1507.17
South	L38-L39	39	42.73	32.05	24.60	10.16	0.750	21.79	Carbon	32.55	1182.30	1410.23	1923.05	1410.23
South	L39-L40	40	48.92	36.69	28.90	10.20	0.750	25.51	Carbon	32.38	1346.52	1614.42	2201.48	1614.42
South	L40-L41	41	48.30	36.22	29.10	10.13	0.750	25.85	Carbon	32.36	1328.63	1593.80	2173.36	1593.80
South	L41-L42	42	44.17	33.13	24.80	10.28	0.750	21.72	Carbon	32.55	1222.17	1457.67	1987.73	1457.67
South	L42-L43	43	40.42	30.32	22.20	10.35	0.750	19.31	Carbon	32.65	1121.65	1333.92	1818.98	1333.92
South	L43-L44	44	42.42	31.82	20.70	10.46	0.750	17.81	Carbon	32.70	1179.06	1399.92	1908.98	1399.92
South	L44-L45	45	52.56	39.42	20.10	10.54	0.750	17.16	Carbon	32.72	1461.86	1734.56	2365.31	1734.56
South	L45-L46	46	52.56	39.42	20.00	10.54	0.750	17.08	Carbon	32.72	1461.98	1734.56	2365.31	1734.56
South	L46-L47	47	42.42	31.82	20.80	10.46	0.750	17.89	Carbon	32.70	1178.95	1399.92	1908.98	1399.92
South	L47-L48	48	42.42	31.82	21.10	10.46	0.750	18.15	Carbon	32.69	1178.64	1399.92	1908.98	1399.92
South	L48-L49	49	37.92	28.44	24.10	10.05	0.750	21.58	Carbon	32.56	1049.42	1251.42	1706.48	1251.42
South	L49-L50	50	46.44	34.83	29.60	10.36	0.750	25.72	Carbon	32.37	1277.73	1532.44	2089.69	1532.44
South	L50-L51	51	45.91	34.43	28.10	10.56	0.750	23.94	Carbon	32.45	1266.40	1514.91	2065.78	1514.91
South	L51-L52	52	45.67	34.25	24.80	10.36	0.750	21.55	Carbon	32.56	1263.94	1507.17	2055.23	1507.17
South	L52-L53	53	45.67	34.25	22.40	10.36	0.750	19.47	Carbon	32.64	1267.10	1507.17	2055.23	1507.17

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	L53-L54	54	53.05	39.79	20.90	10.26	0.750	18.34	Carbon	32.68	1473.54	1750.55	2387.11	1750.55
South	L54-L55	55	72.42	54.32	20.40	9.24	0.750	19.87	Carbon	32.62	2008.32	2389.92	3258.98	2389.92
South	L55-L56	56	140.80	105.60	20.00	8.85	0.750	20.34	Carbon	32.61	3902.26	4646.30	6335.86	4646.30
South	L56-L57	57	128.80	96.60	20.00	9.01	0.750	19.98	Carbon	32.62	3571.17	4250.30	5795.86	4250.30
South	L57-L58	58	71.26	53.44	20.40	10.36	0.750	17.72	Carbon	32.70	1980.62	2351.42	3206.48	2351.42
South	L58-L59	59	48.86	36.64	20.80	10.10	0.750	18.54	Carbon	32.67	1356.92	1612.36	2198.67	1612.36
South	L59-L60	60	50.80	38.10	22.30	9.99	0.750	20.08	Carbon	32.62	1408.29	1676.30	2285.86	1676.30
South	L60-L61	61	57.11	42.83	24.90	10.38	0.750	21.59	Carbon	32.56	1580.40	1884.61	2569.92	1884.61
South	L61-L62	62	64.23	48.18	27.70	10.27	0.750	24.27	Carbon	32.44	1771.20	2119.73	2890.55	2119.73
South	L62-L63	63	63.45	47.59	28.70	10.25	0.750	25.20	Carbon	32.40	1747.29	2093.95	2855.39	2093.95
South	L63-L64	64	45.98	34.49	24.80	9.36	0.750	23.84	Carbon	32.46	1268.73	1517.48	2069.30	1517.48
South	L64-L65	65	44.92	33.69	22.60	10.33	0.750	19.68	Carbon	32.63	1245.99	1482.42	2021.48	1482.42
South	L65-L66	66	41.17	30.88	21.10	10.48	0.750	18.13	Carbon	32.69	1143.94	1358.67	1852.73	1358.67
South	L66-L67	67	42.42	31.82	20.40	10.54	0.750	17.42	Carbon	32.71	1179.52	1399.92	1908.98	1399.92
South	L67-L68	68	49.00	36.75	20.00	10.54	0.750	17.08	Carbon	32.72	1362.89	1617.00	2205.00	1617.00
South	L68-L69	69	49.00	36.75	20.00	10.54	0.750	17.08	Carbon	32.72	1362.89	1617.00	2205.00	1617.00
South	L69-L70	70	42.42	31.82	20.40	10.54	0.750	17.42	Carbon	32.71	1179.52	1399.92	1908.98	1399.92
South	L70-L71	71	36.55	27.41	21.10	9.91	0.750	19.17	Carbon	32.65	1014.28	1206.05	1644.61	1206.05
South	L71-L72	72	40.55	30.41	22.60	10.19	0.750	19.96	Carbon	32.62	1124.28	1338.05	1824.61	1338.05
South	L72-L73	73	56.17	42.13	24.70	10.45	0.750	21.27	Carbon	32.57	1555.08	1853.67	2527.73	1853.67
South	L73-L74	74	62.53	46.90	28.80	10.37	0.750	25.00	Carbon	32.41	1722.41	2063.53	2813.91	2063.53
South	L74-L75	75	63.55	47.66	28.70	10.54	0.750	24.51	Carbon	32.43	1751.63	2097.05	2859.61	2097.05
South	L75-L76	76	54.61	40.96	24.60	10.54	0.750	21.01	Carbon	32.58	1512.31	1802.11	2457.42	1802.11
South	L76-L77	77	56.92	42.69	22.40	10.54	0.750	19.13	Carbon	32.65	1579.82	1878.42	2561.48	1878.42
South	L77-L78	78	64.80	48.60	21.10	10.54	0.750	18.02	Carbon	32.69	1800.54	2138.30	2915.86	2138.30
South	L78-L79	79	104.64	78.48	20.40	10.54	0.750	17.42	Carbon	32.71	2909.50	3453.14	4708.83	3453.14
South	L79-L80	80	129.63	97.22	20.10	10.51	0.750	17.22	Carbon	32.72	3604.92	4277.63	5833.13	4277.63
South	L80-L81	81	167.48	125.61	20.00	10.37	0.750	17.35	Carbon	32.71	4657.16	5526.98	7536.80	5526.98
South	L81-L82	82	182.70	137.03	20.00	10.10	0.750	17.83	Carbon	32.70	5077.88	6029.20	8221.64	6029.20
South	L82-L83	83	176.13	132.09	20.00	10.34	0.750	17.41	Carbon	32.71	4897.12	5812.13	7925.63	5812.13
South	L83-L84	84	136.00	102.00	20.00	10.54	0.750	17.08	Carbon	32.72	3782.73	4488.00	6120.00	4488.00
South	L84-L85	85	125.00	93.75	20.10	10.54	0.750	17.16	Carbon	32.72	3476.48	4125.00	5625.00	4125.00
South	L85-L86	86	133.13	99.84	20.40	10.54	0.750	17.42	Carbon	32.71	3701.49	4393.13	5990.63	4393.13
South	L86-L87	87	142.08	106.56	21.10	10.54	0.750	18.02	Carbon	32.69	3948.00	4688.58	6393.52	4688.58
South	L87-L88	88	147.13	110.34	22.50	10.54	0.750	19.21	Carbon	32.65	4082.94	4855.13	6620.63	4855.13
South	L88-L89	89	171.88	128.91	24.50	10.38	0.750	21.24	Carbon	32.57	4758.39	5671.88	7734.38	5671.88
South	L89-L90	90	193.38	145.03	28.70	10.15	0.750	25.45	Carbon	32.38	5322.86	6381.38	8701.88	6381.38
South	L90-L91	91	244.48	183.36	31.10	9.71	0.750	28.82	Carbon	32.21	6693.65	8067.98	11001.80	8067.98
South	L91-L92	92	202.48	151.86	25.00	10.02	0.750	22.46	Carbon	32.52	5597.08	6681.98	9111.80	6681.98
South	L92-L93	93	151.38	113.53	22.60	10.54	0.750	19.30	Carbon	32.65	4200.48	4995.38	6811.88	4995.38
South	L93-L94	94	127.50	95.63	21.40	10.54	0.750	18.27	Carbon	32.68	3541.95	4207.50	5737.50	4207.50
South	L94-L95	95	84.84	63.63	20.40	10.54	0.750	17.42	Carbon	32.71	2359.05	2799.84	3817.97	2799.84
South	L95-L96	96	76.05	57.04	20.10	10.54	0.750	17.16	Carbon	32.72	2115.00	2509.55	3422.11	2509.55
South	L96-L97	97	31.92	23.94	20.00	10.54	0.750	17.08	Carbon	32.72	887.88	1053.42	1436.48	1053.42
South	L97-L98	98	47.05	35.29	20.00	10.54	0.750	17.08	Carbon	32.72	1308.57	1552.55	2117.11	1552.55
South	L98-L99	99	85.28	63.96	20.00	10.54	0.750	17.08	Carbon	32.72	2372.03	2814.28	3837.66	2814.28
South	L99-L100	100	110.42	82.82	20.00	10.54	0.750	17.08	Carbon	32.72	3071.29	3643.92	4968.98	3643.92
South	L100-L101	101	114.17	85.63	20.00	10.54	0.750	17.08	Carbon	32.72	3175.60	3767.67	5137.73	3767.67
South	L101-L102	102	89.03	66.77	20.00	10.54	0.750	17.08	Carbon	32.72	2476.33	2938.03	4006.41	2938.03
South	L102-L103	103	52.92	39.69	20.00	10.54	0.750	17.08	Carbon	32.72	1471.98	1746.42	2381.48	1746.42
South	L103-L104	104	37.92	28.44	20.00	10.54	0.750	17.08	Carbon	32.72	1054.77	1251.42	1706.48	1251.42
South	L104-L105	105	59.92	44.94	20.10	10.54	0.750	17.16	Carbon	32.72	1666.54	1977.42	2696.48	1977.42
South	L105-L106	106	109.50	82.13	20.50	10.54	0.750	17.51	Carbon	32.71	3044.34	3613.50	4927.50	3613.50

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	L106-L107	107	144.48	108.36	21.10	10.54	0.750	18.02	Carbon	32.69	4014.86	4767.98	6501.80	4767.98
South	L107-L108	108	163.73	122.80	22.30	10.41	0.750	19.28	Carbon	32.65	4543.53	5403.23	7368.05	5403.23
South	L108-L109	109	177.75	133.31	25.90	10.27	0.750	22.69	Carbon	32.51	4911.87	5865.75	7998.75	5865.75
South	L109-L110	110	197.13	147.84	30.70	10.12	0.750	27.30	Carbon	32.29	5410.58	6505.13	8870.63	6505.13
South	L110-L111	111	204.13	153.09	26.40	10.06	0.750	23.62	Carbon	32.47	5633.62	6736.13	9185.63	6736.13
South	L111-L112	112	166.92	125.19	23.90	10.37	0.750	20.73	Carbon	32.59	4624.15	5508.42	7511.48	5508.42
South	L112-L113	113	155.13	116.34	21.90	10.54	0.750	18.70	Carbon	32.67	4307.39	5119.13	6980.63	5119.13
South	L113-L114	114	138.63	103.97	20.70	10.54	0.750	17.68	Carbon	32.70	3853.41	4574.63	6238.13	4574.63
South	L114-L115	115	127.81	95.86	20.20	10.54	0.750	17.25	Carbon	32.72	3554.39	4217.81	5751.56	4217.81
South	L115-L116	116	109.23	81.93	20.00	10.54	0.750	17.08	Carbon	32.72	3038.26	3604.73	4915.55	3604.73
South	L116-L117	117	114.48	85.86	20.00	10.54	0.750	17.08	Carbon	32.72	3184.29	3777.98	5151.80	3777.98
South	L117-L118	118	134.88	101.16	20.00	10.54	0.750	17.08	Carbon	32.72	3751.44	4450.88	6069.38	4450.88
South	L118-L119	119	156.38	117.28	20.00	10.54	0.750	17.08	Carbon	32.72	4349.44	5160.38	7036.88	5160.38
South	L119-L120	120	148.38	111.28	20.00	10.54	0.750	17.08	Carbon	32.72	4126.93	4896.38	6676.88	4896.38
South	L120-L121	121	147.19	110.39	20.10	10.54	0.750	17.16	Carbon	32.72	4093.55	4857.19	6623.44	4857.19
South	L121-L122	122	125.06	93.80	20.40	10.54	0.750	17.42	Carbon	32.71	3477.32	4127.06	5627.81	4127.06
South	L122-L123	123	89.48	67.11	20.80	10.54	0.750	17.76	Carbon	32.70	2487.21	2952.98	4026.80	2952.98
South	L123-L124	124	57.55	43.16	21.50	10.54	0.750	18.36	Carbon	32.68	1598.51	1899.05	2589.61	1899.05
South	L124-L125	125	46.95	35.21	22.60	10.54	0.750	19.30	Carbon	32.65	1302.68	1549.20	2112.54	1549.20
South	L125-L126	126	47.93	35.94	21.90	10.54	0.750	18.70	Carbon	32.67	1330.77	1581.55	2156.66	1581.55
South	U0-U1	127	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U1-U2	128	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
South	U2-U3	129	96.50	77.20	20.00	9.93	0.750	18.13	Carbon	32.69	2681.18	3184.50	4632.00	3184.50
South	U3-U4	130	96.50	77.20	20.00	9.93	0.750	18.13	Carbon	32.69	2681.18	3184.50	4632.00	3184.50
South	U4-U5	131	84.78	67.83	20.00	9.86	0.750	18.25	Carbon	32.68	2355.28	2797.78	4069.50	2797.78
South	U5-U6	132	84.78	67.83	20.00	9.86	0.750	18.25	Carbon	32.68	2355.28	2797.78	4069.50	2797.78
South	U6-U7	133	58.05	46.44	20.00	10.54	0.750	17.08	Carbon	32.72	1614.53	1915.55	2786.25	1915.55
South	U7-U8	134	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U8-U9	135	47.17	37.74	20.00	10.51	0.750	17.13	Carbon	32.72	1311.99	1556.67	2264.25	1556.67
South	U9-U10	136	74.30	59.44	20.00	9.97	0.750	18.06	Carbon	32.69	2064.44	2451.80	3566.25	2451.80
South	U10-U11	137	88.48	70.79	20.00	10.13	0.750	17.76	Carbon	32.70	2459.42	2919.98	4247.25	2919.98
South	U11-U12	138	88.48	70.79	20.00	10.13	0.750	17.76	Carbon	32.70	2459.42	2919.98	4247.25	2919.98
South	U12-U13	139	91.73	73.39	20.00	10.05	0.750	17.90	Carbon	32.70	2549.37	3027.23	4403.25	3027.23
South	U13-U14	140	93.95	75.16	20.00	10.14	0.750	17.74	Carbon	32.70	2611.47	3100.45	4509.75	3100.45
South	U14-U15	141	91.73	73.39	20.00	10.05	0.750	17.90	Carbon	32.70	2549.37	3027.23	4403.25	3027.23
South	U15-U16	142	91.73	73.39	20.00	10.05	0.750	17.90	Carbon	32.70	2549.37	3027.23	4403.25	3027.23
South	U16-U17	143	85.25	68.20	20.00	10.12	0.750	17.79	Carbon	32.70	2369.44	2813.25	4092.00	2813.25
South	U17-U18	144	72.25	57.80	20.00	10.51	0.750	17.12	Carbon	32.72	2009.48	2384.25	3468.00	2384.25
South	U18-U19	145	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
South	U19-U20	146	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
South	U20-U21	147	49.00	39.20	20.00	10.54	0.750	17.08	Carbon	32.72	1362.89	1617.00	2352.00	1617.00
South	U21-U22	148	38.42	30.74	20.00	10.54	0.750	17.08	Carbon	32.72	1068.67	1267.92	1844.25	1267.92
South	U22-U23	149	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
South	U23-U24	150	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U24-U25	151	52.17	41.74	20.00	10.05	0.750	17.90	Carbon	32.70	1449.90	1721.67	2504.25	1721.67
South	U25-U26	152	52.17	41.74	20.00	10.05	0.750	17.90	Carbon	32.70	1449.90	1721.67	2504.25	1721.67
South	U26-U27	153	52.17	41.74	20.00	10.05	0.750	17.90	Carbon	32.70	1449.90	1721.67	2504.25	1721.67
South	U27-U28	154	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U28-U29	155	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
South	U29-U30	156	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
South	U30-U31	157	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U31-U32	158	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U32-U33	159	55.89	44.71	20.00	10.54	0.750	17.08	Carbon	32.72	1554.55	1844.39	2682.75	1844.39

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	U33-U34	160	91.42	73.14	20.00	9.83	0.750	18.32	Carbon	32.68	2539.58	3016.92	4388.25	3016.92
South	U34-U35	161	101.70	81.36	20.00	10.03	0.750	17.95	Carbon	32.69	2826.28	3356.20	4881.75	3356.20
South	U35-U36	162	101.70	81.36	20.00	10.03	0.750	17.95	Carbon	32.69	2826.28	3356.20	4881.75	3356.20
South	U36-U37	163	86.80	69.44	20.00	9.85	0.750	18.28	Carbon	32.68	2411.21	2864.30	4166.25	2864.30
South	U37-U38	164	62.77	50.21	20.00	10.47	0.750	17.19	Carbon	32.72	1745.58	2071.27	3012.75	2071.27
South	U38-U39	165	58.80	47.04	20.00	10.54	0.750	17.08	Carbon	32.72	1635.39	1940.30	2822.25	1940.30
South	U39-U40	166	58.80	47.04	20.00	10.54	0.750	17.08	Carbon	32.72	1635.39	1940.30	2822.25	1940.30
South	U40-U41	167	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
South	U41-U42	168	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
South	U42-U43	169	43.45	34.76	20.00	10.32	0.750	17.44	Carbon	32.71	1208.17	1433.95	2085.75	1433.95
South	U43-U44	170	56.30	45.04	20.00	10.12	0.750	17.78	Carbon	32.70	1564.73	1857.80	2702.25	1857.80
South	U44-U45	171	62.77	50.21	20.00	10.47	0.750	17.19	Carbon	32.72	1745.58	2071.27	3012.75	2071.27
South	U45-U46	172	62.77	50.21	20.00	10.47	0.750	17.19	Carbon	32.72	1745.58	2071.27	3012.75	2071.27
South	U46-U47	173	56.30	45.04	20.00	10.12	0.750	17.78	Carbon	32.70	1564.73	1857.80	2702.25	1857.80
South	U47-U48	174	45.67	36.54	18.70	10.36	0.750	16.25	Carbon	32.75	1271.34	1507.17	2192.25	1507.17
South	U48-U49	175	42.42	33.94	18.00	10.54	0.750	15.37	Carbon	32.78	1181.83	1399.92	2036.25	1399.92
South	U49-U50	176	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
South	U50-U51	177	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U51-U52	178	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U52-U53	179	54.55	43.64	20.00	10.39	0.750	17.33	Carbon	32.71	1516.80	1800.05	2618.25	1800.05
South	U53-U54	180	73.88	59.10	20.00	10.25	0.750	17.57	Carbon	32.71	2053.76	2437.88	3546.00	2437.88
South	U54-U55	181	103.31	82.65	20.00	9.37	0.750	19.22	Carbon	32.65	2867.06	3409.31	4959.00	3409.31
South	U55-U56	182	106.92	85.54	20.00	9.48	0.750	18.98	Carbon	32.66	2968.01	3528.42	5132.25	3528.42
South	U56-U57	183	106.92	85.54	20.00	9.48	0.750	18.98	Carbon	32.66	2968.01	3528.42	5132.25	3528.42
South	U57-U58	184	70.55	56.44	20.00	10.54	0.750	17.08	Carbon	32.72	1962.20	2328.05	3386.25	2328.05
South	U58-U59	185	73.80	59.04	20.00	10.44	0.750	17.24	Carbon	32.72	2052.27	2435.30	3542.25	2435.30
South	U59-U60	186	52.25	41.80	20.00	10.40	0.750	17.31	Carbon	32.72	1452.96	1724.25	2508.00	1724.25
South	U60-U61	187	45.75	36.60	20.00	10.54	0.750	17.08	Carbon	32.72	1272.50	1509.75	2196.00	1509.75
South	U61-U62	188	45.67	36.54	18.10	10.36	0.750	15.73	Carbon	32.76	1271.96	1507.17	2192.25	1507.17
South	U62-U63	189	58.55	46.84	20.00	10.25	0.750	17.56	Carbon	32.71	1627.64	1932.05	2810.25	1932.05
South	U63-U64	190	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
South	U64-U65	191	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
South	U65-U66	192	48.61	38.89	20.00	10.45	0.750	17.22	Carbon	32.72	1351.83	1604.11	2333.25	1604.11
South	U66-U67	193	50.67	40.54	20.00	10.09	0.750	17.84	Carbon	32.70	1408.30	1672.17	2432.25	1672.17
South	U67-U68	194	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
South	U68-U69	195	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
South	U69-U70	196	56.30	45.04	20.00	10.12	0.750	17.78	Carbon	32.70	1564.73	1857.80	2702.25	1857.80
South	U70-U71	197	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
South	U71-U72	198	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
South	U72-U73	199	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
South	U73-U74	200	57.78	46.23	20.00	10.50	0.750	17.15	Carbon	32.72	1607.03	1906.78	2773.50	1906.78
South	U74-U75	201	45.42	36.34	20.00	10.54	0.750	17.08	Carbon	32.72	1263.37	1498.92	2180.25	1498.92
South	U75-U76	202	68.55	54.84	20.00	10.54	0.750	17.08	Carbon	32.72	1906.57	2262.05	3290.25	2262.05
South	U76-U77	203	68.55	54.84	20.00	10.54	0.750	17.08	Carbon	32.72	1906.57	2262.05	3290.25	2262.05
South	U77-U78	204	100.94	80.75	20.00	10.54	0.750	17.08	Carbon	32.72	2807.49	3330.94	4845.00	3330.94
South	U78-U79	205	140.69	112.55	20.00	10.54	0.750	17.08	Carbon	32.72	3913.11	4642.69	6753.00	4642.69
South	U79-U80	206	161.50	129.20	20.00	10.54	0.750	17.08	Carbon	32.72	4491.99	5329.50	7752.00	5329.50
South	U80-U81	207	189.13	151.30	20.00	10.20	0.750	17.64	Carbon	32.70	5257.37	6241.13	9078.00	6241.13
South	U81-U82	208	181.88	145.50	20.00	10.32	0.750	17.45	Carbon	32.71	5056.82	6001.88	8730.00	6001.88
South	U82-U83	209	181.88	145.50	20.00	10.32	0.750	17.45	Carbon	32.71	5056.82	6001.88	8730.00	6001.88
South	U83-U84	210	168.03	134.43	20.00	10.23	0.750	17.60	Carbon	32.71	4671.20	5545.03	8065.50	5545.03
South	U84-U85	211	136.41	109.13	20.00	10.54	0.750	17.08	Carbon	32.72	3794.03	4501.41	6547.50	4501.41
South	U85-U86	212	129.48	103.59	20.00	10.54	0.750	17.08	Carbon	32.72	3601.50	4272.98	6215.25	4272.98

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	U86-U87	213	129.48	103.59	20.00	10.54	0.750	17.08	Carbon	32.72	3601.50	4272.98	6215.25	4272.98
South	U87-U88	214	133.23	106.59	20.00	10.54	0.750	17.08	Carbon	32.72	3705.80	4396.73	6395.25	4396.73
South	U88-U89	215	127.95	102.36	20.00	10.54	0.750	17.08	Carbon	32.72	3558.91	4222.45	6141.75	4222.45
South	U89-U90	216	133.23	106.59	20.00	10.54	0.750	17.08	Carbon	32.72	3705.80	4396.73	6395.25	4396.73
South	U90-U91	217	133.23	106.59	20.00	10.54	0.750	17.08	Carbon	32.72	3705.80	4396.73	6395.25	4396.73
South	U91-U92	218	133.23	106.59	20.00	10.54	0.750	17.08	Carbon	32.72	3705.80	4396.73	6395.25	4396.73
South	U92-U93	219	121.98	97.59	20.00	10.54	0.750	17.08	Carbon	32.72	3392.89	4025.48	5855.25	4025.48
South	U93-U94	220	97.23	77.79	20.00	10.54	0.750	17.08	Carbon	32.72	2704.49	3208.73	4667.25	3208.73
South	U94-U95	221	61.05	48.84	20.00	10.54	0.750	17.08	Carbon	32.72	1697.97	2014.55	2930.25	2014.55
South	U95-U96	222	45.42	36.34	20.00	10.54	0.750	17.08	Carbon	32.72	1263.37	1498.92	2180.25	1498.92
South	U96-U97	223	61.05	48.84	20.00	10.54	0.750	17.08	Carbon	32.72	1697.97	2014.55	2930.25	2014.55
South	U97-U98	224	93.00	74.40	20.00	10.54	0.750	17.08	Carbon	32.72	2586.72	3069.00	4464.00	3069.00
South	U98-U99	225	111.06	88.85	20.00	10.54	0.750	17.08	Carbon	32.72	3089.11	3665.06	5331.00	3665.06
South	U99-U100	226	121.00	96.80	20.00	10.54	0.750	17.08	Carbon	32.72	3365.51	3993.00	5808.00	3993.00
South	U100-U101	227	121.00	96.80	20.00	10.54	0.750	17.08	Carbon	32.72	3365.51	3993.00	5808.00	3993.00
South	U101-U102	228	114.56	91.65	20.00	10.53	0.750	17.10	Carbon	32.72	3186.40	3780.56	5499.00	3780.56
South	U102-U103	229	93.00	74.40	20.00	10.54	0.750	17.08	Carbon	32.72	2586.72	3069.00	4464.00	3069.00
South	U103-U104	230	61.05	48.84	20.00	10.54	0.750	17.08	Carbon	32.72	1697.97	2014.55	2930.25	2014.55
South	U104-U105	231	60.42	48.34	20.00	10.54	0.750	17.08	Carbon	32.72	1680.58	1993.92	2900.25	1993.92
South	U105-U106	232	61.05	48.84	20.00	10.54	0.750	17.08	Carbon	32.72	1697.97	2014.55	2930.25	2014.55
South	U106-U107	233	105.30	84.24	20.00	10.54	0.750	17.08	Carbon	32.72	2928.75	3474.80	5054.25	3474.80
South	U107-U108	234	133.23	106.59	20.00	10.54	0.750	17.08	Carbon	32.72	3705.80	4396.73	6395.25	4396.73
South	U108-U109	235	144.48	115.59	20.00	10.54	0.750	17.08	Carbon	32.72	4018.71	4767.98	6935.25	4767.98
South	U109-U110	236	140.73	112.59	20.00	10.54	0.750	17.08	Carbon	32.72	3914.41	4644.23	6755.25	4644.23
South	U110-U111	237	140.73	112.59	18.90	10.54	0.750	16.14	Carbon	32.75	3917.96	4644.23	6755.25	4644.23
South	U111-U112	238	140.73	112.59	20.00	10.54	0.750	17.08	Carbon	32.72	3914.41	4644.23	6755.25	4644.23
South	U112-U113	239	140.73	112.59	20.00	10.54	0.750	17.08	Carbon	32.72	3914.41	4644.23	6755.25	4644.23
South	U113-U114	240	122.44	97.95	20.00	10.54	0.750	17.08	Carbon	32.72	3405.50	4040.44	5877.00	4040.44
South	U114-U115	241	108.44	86.75	20.00	10.54	0.750	17.08	Carbon	32.72	3016.10	3578.44	5205.00	3578.44
South	U115-U116	242	118.58	94.86	20.00	10.54	0.750	17.08	Carbon	32.72	3298.15	3913.08	5691.75	3913.08
South	U116-U117	243	139.20	111.36	20.00	10.54	0.750	17.08	Carbon	32.72	3871.82	4593.70	6681.75	4593.70
South	U117-U118	244	151.23	120.99	20.00	10.54	0.750	17.08	Carbon	32.72	4206.46	4990.73	7259.25	4990.73
South	U118-U119	245	151.23	120.99	20.00	10.54	0.750	17.08	Carbon	32.72	4206.46	4990.73	7259.25	4990.73
South	U119-U120	246	159.98	127.99	20.00	10.45	0.750	17.23	Carbon	32.72	4449.15	5279.48	7679.25	5279.48
South	U120-U121	247	159.98	127.99	20.00	10.45	0.750	17.23	Carbon	32.72	4449.15	5279.48	7679.25	5279.48
South	U121-U122	248	147.48	117.99	20.00	10.54	0.750	17.08	Carbon	32.72	4102.16	4866.98	7079.25	4866.98
South	U122-U123	249	118.23	94.59	20.00	10.54	0.750	17.08	Carbon	32.72	3288.59	3901.73	5675.25	3901.73
South	U123-U124	250	87.30	69.84	20.00	10.54	0.750	17.08	Carbon	32.72	2428.09	2880.80	4190.25	2880.80
South	U124-U125	251	61.05	48.84	20.00	10.54	0.750	17.08	Carbon	32.72	1697.97	2014.55	2930.25	2014.55
South	U125-U126	252	52.92	42.34	16.10	10.54	0.750	13.75	Carbon	32.82	1476.37	1746.42	2540.25	1746.42
North	L0-L1	253	40.95	30.71	21.10	10.46	0.750	18.15	Carbon	32.69	1137.83	1351.45	1842.89	1351.45
North	L1-L2	254	42.42	31.82	20.70	10.54	0.750	17.68	Carbon	32.70	1179.21	1399.92	1908.98	1399.92
North	L2-L3	255	59.80	44.85	20.30	10.35	0.750	17.66	Carbon	32.70	1662.23	1973.30	2690.86	1973.30
North	L3-L4	256	84.78	63.59	20.10	9.86	0.750	18.34	Carbon	32.68	2355.05	2797.78	3815.16	2797.78
North	L4-L5	257	96.50	72.38	20.00	9.93	0.750	18.13	Carbon	32.69	2681.18	3184.50	4342.50	3184.50
North	L5-L6	258	49.00	36.75	20.00	10.54	0.750	17.08	Carbon	32.72	1362.89	1617.00	2205.00	1617.00
North	L6-L7	259	41.17	30.88	20.20	10.48	0.750	17.35	Carbon	32.71	1144.85	1358.67	1852.73	1358.67
North	L7-L8	260	50.40	37.80	20.60	10.42	0.750	17.79	Carbon	32.70	1400.77	1663.15	2267.93	1663.15
North	L8-L9	261	73.80	55.35	21.10	9.70	0.750	19.59	Carbon	32.64	2047.11	2435.30	3320.86	2435.30
North	L9-L10	262	98.38	73.78	22.10	9.81	0.750	20.27	Carbon	32.61	2726.73	3246.38	4426.88	3246.38
North	L10-L11	263	99.75	74.81	22.20	9.86	0.750	20.26	Carbon	32.61	2764.87	3291.75	4488.75	3291.75
North	L11-L12	264	93.75	70.31	21.20	9.82	0.750	19.44	Carbon	32.64	2601.05	3093.75	4218.75	3093.75
North	L12-L13	265	84.05	63.04	20.50	9.67	0.750	19.07	Carbon	32.65	2332.80	2773.55	3782.11	2773.55

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	L13-L14	266	88.36	66.27	20.20	9.91	0.750	18.34	Carbon	32.68	2454.46	2915.86	3976.17	2915.86
North	L14-L15	267	93.25	69.94	20.00	10.00	0.750	18.00	Carbon	32.69	2591.24	3077.25	4196.25	3077.25
North	L15-L16	268	90.00	67.50	20.00	10.08	0.750	17.86	Carbon	32.70	2501.29	2970.00	4050.00	2970.00
North	L16-L17	269	72.78	54.59	20.30	10.28	0.750	17.77	Carbon	32.70	2022.93	2401.78	3275.16	2401.78
North	L17-L18	270	60.73	45.55	20.90	10.12	0.750	18.59	Carbon	32.67	1686.63	2004.23	2733.05	2004.23
North	L18-L19	271	57.17	42.88	22.10	9.65	0.750	20.60	Carbon	32.60	1584.05	1886.67	2572.73	1886.67
North	L19-L20	272	65.55	49.16	23.50	10.06	0.750	21.02	Carbon	32.58	1815.16	2163.05	2949.61	2163.05
North	L20-L21	273	66.30	49.72	23.70	10.07	0.750	21.18	Carbon	32.57	1835.59	2187.80	2983.36	2187.80
North	L21-L22	274	54.34	40.76	22.20	9.78	0.750	20.43	Carbon	32.60	1506.00	1793.34	2445.47	1793.34
North	L22-L23	275	38.76	29.07	21.00	9.77	0.750	19.34	Carbon	32.64	1075.37	1278.92	1743.98	1278.92
North	L23-L24	276	38.02	28.51	20.30	10.16	0.750	17.98	Carbon	32.69	1056.41	1254.52	1710.70	1254.52
North	L24-L25	277	42.42	31.82	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	1908.98	1399.92
North	L25-L26	278	45.67	34.25	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2055.23	1507.17
North	L26-L27	279	39.05	29.29	20.40	9.95	0.750	18.46	Carbon	32.68	1084.51	1288.55	1757.11	1288.55
North	L27-L28	280	38.02	28.51	21.20	10.16	0.750	18.77	Carbon	32.66	1055.51	1254.52	1710.70	1254.52
North	L28-L29	281	32.95	24.71	23.00	9.63	0.750	21.49	Carbon	32.56	912.03	1087.45	1482.89	1087.45
North	L29-L30	282	46.30	34.72	25.50	10.11	0.750	22.69	Carbon	32.51	1279.35	1527.80	2083.36	1527.80
North	L30-L31	283	48.92	36.69	25.70	10.20	0.750	22.69	Carbon	32.51	1351.90	1614.42	2201.48	1614.42
North	L31-L32	284	39.78	29.84	23.20	9.26	0.750	22.56	Carbon	32.52	1099.50	1312.78	1790.16	1312.78
North	L32-L33	285	39.91	29.93	21.30	9.30	0.750	20.61	Carbon	32.60	1105.66	1316.91	1795.78	1316.91
North	L33-L34	286	62.77	47.07	20.40	10.47	0.750	17.54	Carbon	32.71	1744.97	2071.27	2824.45	2071.27
North	L34-L35	287	105.80	79.35	20.00	9.36	0.750	19.24	Carbon	32.65	2935.95	3491.30	4760.86	3491.30
North	L35-L36	288	98.80	74.10	20.10	9.44	0.750	19.15	Carbon	32.65	2741.94	3260.30	4445.86	3260.30
North	L36-L37	289	49.61	37.21	20.50	10.39	0.750	17.76	Carbon	32.70	1378.89	1637.11	2232.42	1637.11
North	L37-L38	290	43.30	32.47	22.40	10.37	0.750	19.43	Carbon	32.64	1201.26	1428.80	1948.36	1428.80
North	L38-L39	291	41.27	30.95	24.60	9.99	0.750	22.17	Carbon	32.53	1141.11	1361.77	1856.95	1361.77
North	L39-L40	292	48.92	36.69	28.90	10.20	0.750	25.51	Carbon	32.38	1346.52	1614.42	2201.48	1614.42
North	L40-L41	293	48.92	36.69	29.10	10.20	0.750	25.69	Carbon	32.37	1346.16	1614.42	2201.48	1614.42
North	L41-L42	294	37.92	28.44	24.80	9.77	0.750	22.84	Carbon	32.50	1047.72	1251.42	1706.48	1251.42
North	L42-L43	295	36.55	27.41	22.20	9.91	0.750	20.17	Carbon	32.61	1013.12	1206.05	1644.61	1206.05
North	L43-L44	296	42.42	31.82	20.70	10.54	0.750	17.68	Carbon	32.70	1179.21	1399.92	1908.98	1399.92
North	L44-L45	297	51.56	38.67	20.10	10.54	0.750	17.16	Carbon	32.72	1434.05	1701.56	2320.31	1701.56
North	L45-L46	298	52.56	39.42	20.00	10.54	0.750	17.08	Carbon	32.72	1461.98	1734.56	2365.31	1734.56
North	L46-L47	299	42.42	31.82	20.80	10.54	0.750	17.77	Carbon	32.70	1179.11	1399.92	1908.98	1399.92
North	L47-L48	300	42.42	31.82	23.50	10.54	0.750	20.07	Carbon	32.62	1176.11	1399.92	1908.98	1399.92
North	L48-L49	301	42.42	31.82	27.50	10.54	0.750	23.49	Carbon	32.48	1171.01	1399.92	1908.98	1399.92
North	L49-L50	302	48.92	36.69	29.60	10.20	0.750	26.13	Carbon	32.35	1345.26	1614.42	2201.48	1614.42
North	L50-L51	303	45.67	34.25	28.10	10.36	0.750	24.42	Carbon	32.43	1259.07	1507.17	2055.23	1507.17
North	L51-L52	304	45.67	34.25	24.80	10.36	0.750	21.55	Carbon	32.56	1263.94	1507.17	2055.23	1507.17
North	L52-L53	305	43.42	32.57	22.40	10.04	0.750	20.09	Carbon	32.62	1203.82	1432.92	1953.98	1432.92
North	L53-L54	306	75.48	56.61	20.90	10.52	0.750	17.89	Carbon	32.70	2097.81	2490.98	3396.80	2490.98
North	L54-L55	307	118.63	88.97	20.40	9.58	0.750	19.17	Carbon	32.65	3292.19	3914.63	5338.13	3914.63
North	L55-L56	308	206.38	154.78	20.00	8.67	0.750	20.75	Carbon	32.59	5716.95	6810.38	9286.88	6810.38
North	L56-L57	309	199.13	149.34	20.00	8.57	0.750	21.00	Carbon	32.58	5514.47	6571.13	8960.63	6571.13
North	L57-L58	310	102.86	77.14	20.40	9.88	0.750	18.58	Carbon	32.67	2856.51	3394.36	4628.67	3394.36
North	L58-L59	311	63.09	47.32	20.80	10.30	0.750	18.17	Carbon	32.69	1752.95	2082.09	2839.22	2082.09
North	L59-L60	312	50.05	37.54	22.30	10.54	0.750	19.04	Carbon	32.66	1389.14	1651.55	2252.11	1651.55
North	L60-L61	313	58.05	43.54	24.90	10.54	0.750	21.26	Carbon	32.57	1607.00	1915.55	2612.11	1915.55
North	L61-L62	314	61.30	45.97	30.10	10.41	0.750	26.02	Carbon	32.36	1685.83	2022.80	2758.36	2022.80
North	L62-L63	315	59.42	44.57	28.70	10.34	0.750	24.97	Carbon	32.41	1636.82	1960.92	2673.98	1960.92
North	L63-L64	316	42.73	32.05	24.80	9.44	0.750	23.64	Carbon	32.47	1179.38	1410.23	1923.05	1410.23
North	L64-L65	317	42.11	31.58	22.60	10.46	0.750	19.44	Carbon	32.64	1168.30	1389.61	1894.92	1389.61
North	L65-L66	318	42.42	31.82	21.10	10.54	0.750	18.02	Carbon	32.69	1178.79	1399.92	1908.98	1399.92

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L / $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	L66-L67	319	40.80	30.60	20.40	10.54	0.750	17.42	Carbon	32.71	1134.34	1346.30	1835.86	1346.30
North	L67-L68	320	49.00	36.75	20.00	10.54	0.750	17.08	Carbon	32.72	1362.89	1617.00	2205.00	1617.00
North	L68-L69	321	49.00	36.75	20.00	10.54	0.750	17.08	Carbon	32.72	1362.89	1617.00	2205.00	1617.00
North	L69-L70	322	42.42	31.82	20.40	10.54	0.750	17.42	Carbon	32.71	1179.52	1399.92	1908.98	1399.92
North	L70-L71	323	42.42	31.82	21.10	10.54	0.750	18.02	Carbon	32.69	1178.79	1399.92	1908.98	1399.92
North	L71-L72	324	39.49	29.62	22.60	9.73	0.750	20.91	Carbon	32.58	1093.80	1303.24	1777.15	1303.24
North	L72-L73	325	58.05	43.54	24.70	10.54	0.750	21.09	Carbon	32.58	1607.34	1915.55	2612.11	1915.55
North	L73-L74	326	63.31	47.48	28.80	10.39	0.750	24.94	Carbon	32.41	1744.08	2089.31	2849.06	2089.31
North	L74-L75	327	64.02	48.01	28.60	10.54	0.750	24.42	Carbon	32.43	1764.77	2112.52	2880.70	2112.52
North	L75-L76	328	53.80	40.35	24.60	10.54	0.750	21.01	Carbon	32.58	1489.81	1775.30	2420.86	1775.30
North	L76-L77	329	53.80	40.35	22.40	10.54	0.750	19.13	Carbon	32.65	1493.09	1775.30	2420.86	1775.30
North	L77-L78	330	63.55	47.66	21.10	10.54	0.750	18.02	Carbon	32.69	1765.81	2097.05	2859.61	2097.05
North	L78-L79	331	102.77	77.07	20.40	10.54	0.750	17.42	Carbon	32.71	2857.36	3391.27	4624.45	3391.27
North	L79-L80	332	129.38	97.03	20.10	10.44	0.750	17.33	Carbon	32.71	3597.56	4269.38	5821.88	4269.38
North	L80-L81	333	166.23	124.68	20.00	10.33	0.750	17.43	Carbon	32.71	4622.06	5485.73	7480.55	5485.73
North	L81-L82	334	182.70	137.03	20.00	10.10	0.750	17.83	Carbon	32.70	5077.88	6029.20	8221.64	6029.20
North	L82-L83	335	174.63	130.97	20.00	10.29	0.750	17.50	Carbon	32.71	4854.99	5762.63	7858.13	5762.63
North	L83-L84	336	131.79	98.84	20.00	10.54	0.750	17.08	Carbon	32.72	3665.68	4349.13	5930.63	4349.13
North	L84-L85	337	124.50	93.38	20.10	10.54	0.750	17.16	Carbon	32.72	3462.57	4108.50	5602.50	4108.50
North	L85-L86	338	133.50	100.13	20.40	10.54	0.750	17.42	Carbon	32.71	3711.92	4405.50	6007.50	4405.50
North	L86-L87	339	141.45	106.09	21.10	10.54	0.750	18.02	Carbon	32.69	3930.63	4667.95	6365.39	4667.95
North	L87-L88	340	149.13	111.84	22.50	10.54	0.750	19.21	Carbon	32.65	4138.45	4921.13	6710.63	4921.13
North	L88-L89	341	169.00	126.75	24.50	10.45	0.750	21.11	Carbon	32.58	4679.57	5577.00	7605.00	5577.00
North	L89-L90	342	193.38	145.03	28.70	10.15	0.750	25.45	Carbon	32.38	5322.86	6381.38	8701.88	6381.38
North	L90-L91	343	244.48	183.36	31.10	9.71	0.750	28.82	Carbon	32.21	6693.65	8067.98	11001.80	8067.98
North	L91-L92	344	201.80	151.35	25.00	10.01	0.750	22.49	Carbon	32.52	5577.91	6659.30	9080.86	6659.30
North	L92-L93	345	150.88	113.16	22.60	10.54	0.750	19.30	Carbon	32.65	4186.61	4978.88	6789.38	4978.88
North	L93-L94	346	130.63	97.97	21.40	10.54	0.750	18.27	Carbon	32.68	3628.76	4310.63	5878.13	4310.63
North	L94-L95	347	93.50	70.13	20.40	10.54	0.750	17.42	Carbon	32.71	2599.73	3085.50	4207.50	3085.50
North	L95-L96	348	76.05	57.04	20.10	10.54	0.750	17.16	Carbon	32.72	2115.00	2509.55	3422.11	2509.55
North	L96-L97	349	45.42	34.07	20.00	10.54	0.750	17.08	Carbon	32.72	1263.37	1498.92	2043.98	1498.92
North	L97-L98	350	52.92	39.69	20.00	10.54	0.750	17.08	Carbon	32.72	1471.98	1746.42	2381.48	1746.42
North	L98-L99	351	83.28	62.46	20.00	10.54	0.750	17.08	Carbon	32.72	2316.40	2748.28	3747.66	2748.28
North	L99-L100	352	107.94	80.95	20.00	10.54	0.750	17.08	Carbon	32.72	3002.19	3561.94	4857.19	3561.94
North	L100-L101	353	108.44	81.33	20.00	10.54	0.750	17.08	Carbon	32.72	3016.10	3578.44	4879.69	3578.44
North	L101-L102	354	84.53	63.40	20.00	10.54	0.750	17.08	Carbon	32.72	2351.17	2789.53	3803.91	2789.53
North	L102-L103	355	52.42	39.32	20.00	10.54	0.750	17.08	Carbon	32.72	1458.07	1729.92	2358.98	1729.92
North	L103-L104	356	45.42	34.07	20.00	10.54	0.750	17.08	Carbon	32.72	1263.37	1498.92	2043.98	1498.92
North	L104-L105	357	58.11	43.58	20.10	10.54	0.750	17.16	Silicon	44.48	2196.95	2614.92	3050.74	2614.92
North	L105-L106	358	107.00	80.25	20.50	10.54	0.750	17.51	Silicon	44.46	4043.45	4815.00	5617.50	4815.00
North	L106-L107	359	144.48	108.36	21.10	10.54	0.750	18.02	Silicon	44.43	5456.01	6501.80	7585.43	6501.80
North	L107-L108	360	163.73	122.80	22.30	10.41	0.750	19.28	Silicon	44.34	6171.32	7368.05	8596.05	7368.05
North	L108-L109	361	179.88	134.91	25.90	10.30	0.750	22.62	Silicon	44.09	6741.83	8094.38	9443.44	8094.38
North	L109-L110	362	197.13	147.84	30.70	10.12	0.750	27.30	Silicon	43.68	7319.17	8870.63	10349.06	8870.63
North	L110-L111	363	202.25	151.69	28.10	10.07	0.750	25.11	Silicon	43.88	7544.30	9101.25	10618.13	9101.25
North	L111-L112	364	164.73	123.55	23.90	10.27	0.750	20.94	Silicon	44.22	6192.47	7413.05	8648.55	7413.05
North	L112-L113	365	151.38	113.53	21.90	10.54	0.750	18.70	Silicon	44.38	5710.50	6811.88	7947.19	6811.88
North	L113-L114	366	137.25	102.94	20.70	10.54	0.750	17.68	Silicon	44.45	5185.34	6176.25	7205.63	6176.25
North	L114-L115	367	130.44	97.83	20.20	10.54	0.750	17.25	Silicon	44.47	4930.88	5869.69	6847.97	5869.69
North	L115-L116	368	110.73	83.05	20.00	10.54	0.750	17.08	Silicon	44.48	4187.03	4983.05	5813.55	4983.05
North	L116-L117	369	114.48	85.86	20.00	10.54	0.750	17.08	Silicon	44.48	4328.82	5151.80	6010.43	5151.80
North	L117-L118	370	134.88	101.16	20.00	10.54	0.750	17.08	Silicon	44.48	5099.82	6069.38	7080.94	6069.38
North	L118-L119	371	158.88	119.16	20.00	10.54	0.750	17.08	Silicon	44.48	6007.30	7149.38	8340.94	7149.38

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities												
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	L119-L120	372	158.88	119.16	20.00	10.54	0.750	17.08	Silicon	44.48	6007.30	7149.38	8340.94	7149.38
North	L120-L121	373	148.31	111.23	20.10	10.54	0.750	17.16	Silicon	44.48	5607.26	6674.06	7786.41	6674.06
North	L121-L122	374	122.31	91.73	20.40	10.54	0.750	17.42	Silicon	44.46	4622.65	5504.06	6421.41	5504.06
North	L122-L123	375	86.98	65.24	20.80	10.54	0.750	17.76	Silicon	44.44	3285.89	3914.30	4566.68	3914.30
North	L123-L124	376	57.55	43.16	21.50	10.54	0.750	18.36	Silicon	44.40	2172.00	2589.61	3021.21	2589.61
North	L124-L125	377	52.92	39.69	22.60	10.54	0.750	19.30	Silicon	44.34	1994.63	2381.48	2778.40	2381.48
North	L125-L126	378	51.92	38.94	28.40	10.54	0.750	24.25	Silicon	43.96	1940.10	2336.48	2725.90	2336.48
North	U0-U1	379	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
North	U1-U2	380	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
North	U2-U3	381	96.50	77.20	20.00	9.93	0.750	18.13	Carbon	32.69	2681.18	3184.50	4632.00	3184.50
North	U3-U4	382	96.50	77.20	20.00	9.93	0.750	18.13	Carbon	32.69	2681.18	3184.50	4632.00	3184.50
North	U4-U5	383	84.78	67.83	20.00	9.86	0.750	18.25	Carbon	32.68	2355.28	2797.78	4069.50	2797.78
North	U5-U6	384	81.97	65.58	20.00	9.67	0.750	18.61	Carbon	32.67	2276.27	2704.97	3934.50	2704.97
North	U6-U7	385	58.05	46.44	20.00	10.54	0.750	17.08	Carbon	32.72	1614.53	1915.55	2786.25	1915.55
North	U7-U8	386	34.84	27.87	20.00	10.54	0.750	17.08	Carbon	32.72	969.01	1149.67	1672.25	1149.67
North	U8-U9	387	47.17	37.74	20.00	10.51	0.750	17.13	Carbon	32.72	1311.99	1556.67	2264.25	1556.67
North	U9-U10	388	74.30	59.44	20.00	9.97	0.750	18.06	Carbon	32.69	2064.44	2451.80	3566.25	2451.80
North	U10-U11	389	88.48	70.79	20.00	10.13	0.750	17.76	Carbon	32.70	2459.42	2919.98	4247.25	2919.98
North	U11-U12	390	83.11	66.49	20.00	10.05	0.750	17.90	Carbon	32.70	2309.68	2742.61	3989.25	2742.61
North	U12-U13	391	91.73	73.39	20.00	10.05	0.750	17.90	Carbon	32.70	2549.37	3027.23	4403.25	3027.23
North	U13-U14	392	93.95	75.16	20.00	10.14	0.750	17.74	Carbon	32.70	2611.47	3100.45	4509.75	3100.45
North	U14-U15	393	91.73	73.39	20.00	10.05	0.750	17.90	Carbon	32.70	2549.37	3027.23	4403.25	3027.23
North	U15-U16	394	91.73	73.39	20.00	10.05	0.750	17.90	Carbon	32.70	2549.37	3027.23	4403.25	3027.23
North	U16-U17	395	85.25	68.20	20.00	10.12	0.750	17.79	Carbon	32.70	2369.44	2813.25	4092.00	2813.25
North	U17-U18	396	67.13	53.70	20.00	10.26	0.750	17.54	Carbon	32.71	1866.15	2215.13	3222.00	2215.13
North	U18-U19	397	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
North	U19-U20	398	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
North	U20-U21	399	49.00	39.20	20.00	10.54	0.750	17.08	Carbon	32.72	1362.89	1617.00	2352.00	1617.00
North	U21-U22	400	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
North	U22-U23	401	35.20	28.16	20.00	9.63	0.750	18.70	Carbon	32.67	977.49	1161.70	1689.75	1161.70
North	U23-U24	402	36.57	29.26	20.00	9.70	0.750	18.55	Carbon	32.67	1015.62	1206.82	1755.38	1206.82
North	U24-U25	403	52.17	41.74	20.00	10.05	0.750	17.90	Carbon	32.70	1449.90	1721.67	2504.25	1721.67
North	U25-U26	404	52.17	41.74	20.00	10.05	0.750	17.90	Carbon	32.70	1449.90	1721.67	2504.25	1721.67
North	U26-U27	405	52.17	41.74	20.00	10.05	0.750	17.90	Carbon	32.70	1449.90	1721.67	2504.25	1721.67
North	U27-U28	406	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
North	U28-U29	407	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
North	U29-U30	408	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
North	U30-U31	409	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
North	U31-U32	410	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
North	U32-U33	411	61.89	49.51	20.00	10.54	0.750	17.08	Carbon	32.72	1721.44	2042.39	2970.75	2042.39
North	U33-U34	412	91.42	73.14	20.00	9.83	0.750	18.32	Carbon	32.68	2539.58	3016.92	4388.25	3016.92
North	U34-U35	413	101.70	81.36	20.00	10.03	0.750	17.95	Carbon	32.69	2826.28	3356.20	4881.75	3356.20
North	U35-U36	414	101.70	81.36	20.00	10.03	0.750	17.95	Carbon	32.69	2826.28	3356.20	4881.75	3356.20
North	U36-U37	415	86.80	69.44	20.00	9.85	0.750	18.28	Carbon	32.68	2411.21	2864.30	4166.25	2864.30
North	U37-U38	416	62.77	50.21	20.00	10.47	0.750	17.19	Carbon	32.72	1745.58	2071.27	3012.75	2071.27
North	U38-U39	417	58.80	47.04	20.00	10.54	0.750	17.08	Carbon	32.72	1635.39	1940.30	2822.25	1940.30
North	U39-U40	418	58.80	47.04	20.00	10.54	0.750	17.08	Carbon	32.72	1635.39	1940.30	2822.25	1940.30
North	U40-U41	419	39.80	31.84	20.00	10.38	0.750	17.33	Carbon	32.71	1106.63	1313.30	1910.25	1313.30
North	U41-U42	420	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
North	U42-U43	421	41.20	32.96	20.00	10.54	0.750	17.08	Carbon	32.72	1146.03	1359.70	1977.75	1359.70
North	U43-U44	422	56.30	45.04	20.00	10.12	0.750	17.78	Carbon	32.70	1564.73	1857.80	2702.25	1857.80
North	U44-U45	423	62.77	50.21	20.00	10.47	0.750	17.19	Carbon	32.72	1745.58	2071.27	3012.75	2071.27
North	U45-U46	424	62.77	50.21	20.00	10.47	0.750	17.19	Carbon	32.72	1745.58	2071.27	3012.75	2071.27

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

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Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U46-U47	425	56.30	45.04	20.00	10.12	0.750	17.78	Carbon	32.70	1564.73	1857.80	2702.25	1857.80
North	U47-U48	426	45.67	36.54	21.40	10.36	0.750	18.60	Carbon	32.67	1268.32	1507.17	2192.25	1507.17
North	U48-U49	427	23.55	18.84	22.40	10.54	0.750	19.13	Carbon	32.65	653.52	777.05	1130.25	777.05
North	U49-U50	428	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
North	U50-U51	429	56.30	45.04	20.00	10.54	0.750	17.08	Carbon	32.72	1565.85	1857.80	2702.25	1857.80
North	U51-U52	430	58.80	47.04	20.00	10.54	0.750	17.08	Carbon	32.72	1635.39	1940.30	2822.25	1940.30
North	U52-U53	431	67.36	53.89	20.00	10.54	0.750	17.08	Carbon	32.72	1873.55	2222.86	3233.25	2222.86
North	U53-U54	432	113.38	90.70	20.00	9.99	0.750	18.03	Carbon	32.69	3150.39	3741.38	5442.00	3741.38
North	U54-U55	433	152.38	121.90	20.00	9.42	0.750	19.11	Carbon	32.65	4229.12	5028.38	7314.00	5028.38
North	U55-U56	434	179.88	143.90	20.00	8.68	0.750	20.74	Carbon	32.59	4982.91	5935.88	8634.00	5935.88
North	U56-U57	435	174.59	139.68	20.00	8.63	0.750	20.87	Carbon	32.59	4835.88	5761.59	8380.50	5761.59
North	U57-U58	436	144.61	115.69	20.00	8.85	0.750	20.34	Carbon	32.61	4007.93	4772.11	6941.25	4772.11
North	U58-U59	437	108.61	86.89	20.00	10.00	0.750	17.99	Carbon	32.69	3018.06	3584.11	5213.25	3584.11
North	U59-U60	438	65.73	52.59	20.00	10.54	0.750	17.08	Carbon	32.72	1828.35	2169.23	3155.25	2169.23
North	U60-U61	439	45.70	36.56	20.00	10.36	0.750	17.38	Carbon	32.71	1270.60	1507.95	2193.38	1507.95
North	U61-U62	440	39.17	31.34	21.50	10.54	0.750	18.36	Carbon	32.68	1088.10	1292.67	1880.25	1292.67
North	U62-U63	441	59.23	47.39	20.00	10.38	0.750	17.34	Carbon	32.71	1647.12	1954.73	2843.25	1954.73
North	U63-U64	442	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
North	U64-U65	443	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
North	U65-U66	444	36.17	28.94	20.00	10.24	0.750	17.57	Carbon	32.71	1005.59	1193.67	1736.25	1193.67
North	U66-U67	445	47.98	38.39	20.00	10.04	0.750	17.92	Carbon	32.69	1333.50	1583.48	2303.25	1583.48
North	U67-U68	446	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
North	U68-U69	447	61.30	49.04	20.00	10.41	0.750	17.29	Carbon	32.72	1704.56	2022.80	2942.25	2022.80
North	U69-U70	448	56.30	45.04	20.00	10.12	0.750	17.78	Carbon	32.70	1564.73	1857.80	2702.25	1857.80
North	U70-U71	449	45.67	36.54	20.00	10.36	0.750	17.38	Carbon	32.71	1269.94	1507.17	2192.25	1507.17
North	U71-U72	450	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
North	U72-U73	451	42.42	33.94	20.00	10.54	0.750	17.08	Carbon	32.72	1179.92	1399.92	2036.25	1399.92
North	U73-U74	452	57.78	46.23	20.00	10.50	0.750	17.15	Carbon	32.72	1607.03	1906.78	2773.50	1906.78
North	U74-U75	453	44.02	35.21	20.00	10.54	0.750	17.08	Carbon	32.72	1224.26	1452.52	2112.75	1452.52
North	U75-U76	454	55.80	44.64	20.00	10.54	0.750	17.08	Carbon	32.72	1551.94	1841.30	2678.25	1841.30
North	U76-U77	455	68.55	54.84	20.00	10.54	0.750	17.08	Carbon	32.72	1906.57	2262.05	3290.25	2262.05
North	U77-U78	456	100.94	80.75	20.00	10.54	0.750	17.08	Carbon	32.72	2807.49	3330.94	4845.00	3330.94
North	U78-U79	457	140.69	112.55	20.00	10.54	0.750	17.08	Carbon	32.72	3913.11	4642.69	6753.00	4642.69
North	U79-U80	458	161.79	129.43	20.00	10.54	0.750	17.08	Carbon	32.72	4500.10	5339.13	7766.00	5339.13
North	U80-U81	459	189.13	151.30	20.00	10.20	0.750	17.64	Carbon	32.70	5257.37	6241.13	9078.00	6241.13
North	U81-U82	460	181.88	145.50	20.00	10.32	0.750	17.45	Carbon	32.71	5056.82	6001.88	8730.00	6001.88
North	U82-U83	461	178.88	143.10	20.00	10.36	0.750	17.37	Carbon	32.71	4973.81	5902.88	8586.00	5902.88
North	U83-U84	462	165.13	132.10	20.00	10.21	0.750	17.64	Carbon	32.70	4590.22	5449.13	7926.00	5449.13
North	U84-U85	463	136.63	109.30	20.00	10.54	0.750	17.08	Carbon	32.72	3800.11	4508.63	6558.00	4508.63
North	U85-U86	464	129.48	103.59	20.00	10.54	0.750	17.08	Carbon	32.72	3601.50	4272.98	6215.25	4272.98
North	U86-U87	465	129.48	103.59	20.00	10.54	0.750	17.08	Carbon	32.72	3601.50	4272.98	6215.25	4272.98
North	U87-U88	466	131.48	105.19	20.00	10.54	0.750	17.08	Carbon	32.72	3657.13	4338.98	6311.25	4338.98
North	U88-U89	467	126.22	100.98	20.00	10.54	0.750	17.08	Carbon	32.72	3510.67	4165.22	6058.50	4165.22
North	U89-U90	468	133.23	106.59	20.00	10.54	0.750	17.08	Carbon	32.72	3705.80	4396.73	6395.25	4396.73
North	U90-U91	469	133.23	106.59	20.00	10.54	0.750	17.08	Carbon	32.72	3705.80	4396.73	6395.25	4396.73
North	U91-U92	470	125.30	100.24	20.00	10.54	0.750	17.08	Carbon	32.72	3485.03	4134.80	6014.25	4134.80
North	U92-U93	471	121.98	97.59	20.00	10.54	0.750	17.08	Carbon	32.72	3392.89	4025.48	5855.25	4025.48
North	U93-U94	472	97.23	77.79	20.00	10.54	0.750	17.08	Carbon	32.72	2704.49	3208.73	4667.25	3208.73
North	U94-U95	473	61.05	48.84	20.00	10.54	0.750	17.08	Carbon	32.72	1697.97	2014.55	2930.25	2014.55
North	U95-U96	474	45.42	36.34	20.00	10.54	0.750	17.08	Carbon	32.72	1263.37	1498.92	2180.25	1498.92
North	U96-U97	475	61.05	48.84	20.00	10.54	0.750	17.08	Carbon	32.72	1697.97	2014.55	2930.25	2014.55
North	U97-U98	476	93.00	74.40	20.00	10.54	0.750	17.08	Carbon	32.72	2586.72	3069.00	4464.00	3069.00
North	U98-U99	477	111.06	88.85	20.00	10.54	0.750	17.08	Carbon	32.72	3089.11	3665.06	5331.00	3665.06

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U99-U100	478	118.56	94.85	20.00	10.54	0.750	17.08	Carbon	32.72	3297.72	3912.56	5691.00	3912.56
North	U100-U101	479	118.56	94.85	20.00	10.54	0.750	17.08	Carbon	32.72	3297.72	3912.56	5691.00	3912.56
North	U101-U102	480	111.06	88.85	20.00	10.54	0.750	17.08	Carbon	32.72	3089.11	3665.06	5331.00	3665.06
North	U102-U103	481	93.00	74.40	20.00	10.54	0.750	17.08	Carbon	32.72	2586.72	3069.00	4464.00	3069.00
North	U103-U104	482	61.05	48.84	20.00	10.54	0.750	17.08	Carbon	32.72	1697.97	2014.55	2930.25	2014.55
North	U104-U105	483	60.42	48.34	20.00	10.54	0.750	17.08	Silicon	44.48	2284.64	2718.98	3383.63	2718.98
North	U105-U106	484	61.05	48.84	20.00	10.54	0.750	17.08	Silicon	44.48	2308.27	2747.11	3418.63	2747.11
North	U106-U107	485	105.30	84.24	20.00	10.54	0.750	17.08	Silicon	44.48	3981.43	4738.36	5896.63	4738.36
North	U107-U108	486	133.23	106.59	20.00	10.54	0.750	17.08	Silicon	44.48	5037.79	5995.55	7461.13	5995.55
North	U108-U109	487	144.48	115.59	20.00	10.54	0.750	17.08	Silicon	44.48	5463.17	6501.80	8091.13	6501.80
North	U109-U110	488	140.73	112.59	20.00	10.54	0.750	17.08	Silicon	44.48	5321.37	6333.05	7881.13	6333.05
North	U110-U111	489	140.73	112.59	21.30	10.54	0.750	18.19	Silicon	44.41	5313.09	6333.05	7881.13	6333.05
North	U111-U112	490	140.73	112.59	20.00	10.54	0.750	17.08	Silicon	44.48	5321.37	6333.05	7881.13	6333.05
North	U112-U113	491	140.73	112.59	20.00	10.54	0.750	17.08	Silicon	44.48	5321.37	6333.05	7881.13	6333.05
North	U113-U114	492	122.44	97.95	20.00	10.54	0.750	17.08	Silicon	44.48	4629.54	5509.69	6856.50	5509.69
North	U114-U115	493	108.44	86.75	20.00	10.54	0.750	17.08	Silicon	44.48	4100.18	4879.69	6072.50	4879.69
North	U115-U116	494	118.58	94.86	20.00	10.54	0.750	17.08	Silicon	44.48	4483.61	5336.02	6640.38	5336.02
North	U116-U117	495	139.20	111.36	20.00	10.54	0.750	17.08	Silicon	44.48	5263.48	6264.14	7795.38	6264.14
North	U117-U118	496	151.23	120.99	20.00	10.54	0.750	17.08	Silicon	44.48	5718.39	6805.55	8469.13	6805.55
North	U118-U119	497	151.23	120.99	20.00	10.54	0.750	17.08	Silicon	44.48	5718.39	6805.55	8469.13	6805.55
North	U119-U120	498	159.98	127.99	20.00	10.45	0.750	17.23	Silicon	44.47	6047.98	7199.30	8959.13	7199.30
North	U120-U121	499	159.98	127.99	20.00	10.45	0.750	17.23	Silicon	44.47	6047.98	7199.30	8959.13	7199.30
North	U121-U122	500	147.48	117.99	20.00	10.54	0.750	17.08	Silicon	44.48	5576.60	6636.80	8259.13	6636.80
North	U122-U123	501	118.23	94.59	20.00	10.54	0.750	17.08	Silicon	44.48	4470.62	5320.55	6621.13	5320.55
North	U123-U124	502	87.30	69.84	20.00	10.54	0.750	17.08	Silicon	44.48	3300.82	3928.36	4888.63	3928.36
North	U124-U125	503	61.05	48.84	20.00	10.54	0.750	17.08	Silicon	44.48	2308.27	2747.11	3418.63	2747.11
North	U125-U126	504	52.92	42.34	24.20	10.54	0.750	20.67	Silicon	44.24	1990.28	2381.48	2963.63	2381.48
South	U0-L0	505	46.53	37.23	33.30	3.44	0.750	87.08	Carbon	25.79	1019.95	1535.54	2233.52	1535.54
South	U1-L1	506	53.53	42.83	26.50	3.53	0.750	67.64	Carbon	28.65	1303.54	1766.54	2569.52	1766.54
South	U2-L2	507	40.72	32.58	21.10	3.31	0.750	57.32	Carbon	29.87	1034.08	1343.83	1954.67	1343.83
South	U3-L3	508	28.97	23.17	17.60	2.76	0.750	57.34	Carbon	29.87	735.53	955.91	1390.42	955.91
South	U4-L4	509	28.97	23.17	15.30	2.76	0.750	49.84	Carbon	30.64	754.34	955.91	1390.42	955.91
South	U5-L5	510	21.57	17.25	15.00	1.96	0.750	68.92	Carbon	28.48	522.14	711.73	1035.25	711.73
South	U6-L6	511	37.78	30.23	15.60	3.29	0.750	42.71	Carbon	31.26	1004.05	1246.79	1813.52	1246.79
South	U7-L7	512	50.31	40.25	18.62	6.10	0.750	27.49	Carbon	32.28	1380.52	1660.31	2415.00	1660.31
South	U8-L8	513	57.03	45.63	23.60	3.56	0.750	59.67	Carbon	29.61	1435.58	1882.04	2737.52	1882.04
South	U9-L9	514	64.03	51.23	30.50	3.62	0.750	75.92	Carbon	27.52	1497.67	2113.04	3073.52	2113.04
South	U10-L10	515	64.75	51.80	40.00	6.81	0.750	52.85	Carbon	30.34	1670.02	2136.75	3108.00	2136.75
South	U11-L11	516	50.69	40.55	30.50	6.10	0.750	45.00	Carbon	31.07	1338.80	1672.69	2433.00	1672.69
South	U12-L12	517	46.63	37.30	23.50	3.36	0.750	63.02	Carbon	29.22	1158.12	1538.64	2238.02	1538.64
South	U13-L13	518	37.78	30.23	19.00	3.29	0.750	52.02	Carbon	30.43	977.12	1246.79	1813.52	1246.79
South	U14-L14	519	28.97	23.17	16.20	2.76	0.750	52.77	Carbon	30.35	747.30	955.91	1390.42	955.91
South	U15-L15	520	21.57	17.25	15.50	1.96	0.750	71.22	Carbon	28.18	516.53	711.73	1035.25	711.73
South	U16-L16	521	28.97	23.17	16.50	2.76	0.750	53.75	Carbon	30.25	744.86	955.91	1390.42	955.91
South	U17-L17	522	37.78	30.23	20.30	3.29	0.750	55.58	Carbon	30.06	965.42	1246.79	1813.52	1246.79
South	U18-L18	523	43.49	34.80	26.50	3.47	0.750	68.82	Carbon	28.50	1053.47	1435.32	2087.74	1435.32
South	U19-L19	524	50.69	40.55	36.00	6.10	0.750	53.11	Carbon	30.32	1306.18	1672.69	2433.00	1672.69
South	U20-L20	525	64.75	51.80	48.50	6.81	0.750	64.08	Carbon	29.09	1601.27	2136.75	3108.00	2136.75
South	U21-L21	526	46.25	37.00	36.00	6.16	0.750	52.56	Carbon	30.37	1193.99	1526.25	2220.00	1526.25
South	U22-L22	527	46.53	37.23	26.50	3.44	0.750	69.30	Carbon	28.43	1124.56	1535.54	2233.52	1535.54
South	U23-L23	528	40.72	32.58	20.30	3.31	0.750	55.15	Carbon	30.11	1042.13	1343.83	1954.67	1343.83
South	U24-L24	529	28.97	23.17	17.00	2.76	0.750	55.38	Carbon	30.08	740.69	955.91	1390.42	955.91
South	U25-L25	530	21.57	17.25	16.50	1.96	0.750	75.81	Carbon	27.53	504.75	711.73	1035.25	711.73

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	U26-L26	531	28.97	23.17	17.80	2.76	0.750	57.99	Carbon	29.80	733.77	955.91	1390.42	955.91
South	U27-L27	532	37.78	30.23	22.20	3.29	0.750	60.78	Carbon	29.49	946.93	1246.79	1813.52	1246.79
South	U28-L28	533	46.25	37.00	29.54	6.16	0.750	43.13	Carbon	31.23	1227.75	1526.25	2220.00	1526.25
South	U29-L29	534	48.75	39.00	41.00	6.14	0.750	60.05	Carbon	29.57	1225.31	1608.75	2340.00	1608.75
South	U30-L30	535	102.00	81.60	57.00	7.54	0.750	68.02	Carbon	28.60	2479.54	3366.00	4896.00	3366.00
South	U31-L31	536	58.25	46.60	41.00	7.83	0.750	47.14	Carbon	30.89	1529.27	1922.25	2796.00	1922.25
South	U32-L32	537	53.75	43.00	29.50	6.90	0.750	38.47	Carbon	31.59	1443.36	1773.75	2580.00	1773.75
South	U33-L33	538	46.25	37.00	22.30	6.16	0.750	32.56	Carbon	31.99	1257.67	1526.25	2220.00	1526.25
South	U34-L34	539	28.97	23.17	18.30	2.76	0.750	59.62	Carbon	29.62	729.29	955.91	1390.42	955.91
South	U35-L35	540	23.64	18.91	17.50	1.97	0.750	80.13	Carbon	26.89	540.30	780.01	1134.56	780.01
South	U36-L36	541	43.13	34.51	19.60	3.32	0.750	53.20	Carbon	30.31	1111.21	1423.44	2070.46	1423.44
South	U37-L37	542	48.75	39.00	24.30	6.14	0.750	35.59	Carbon	31.80	1317.51	1608.75	2340.00	1608.75
South	U38-L38	543	53.75	43.00	34.50	6.90	0.750	44.99	Carbon	31.07	1419.71	1773.75	2580.00	1773.75
South	U39-L39	544	59.25	47.40	49.00	7.63	0.750	57.82	Carbon	29.82	1501.80	1955.25	2844.00	1955.25
South	U40-L40	545	108.13	86.50	70.00	8.21	0.750	76.78	Carbon	27.39	2517.53	3568.13	5190.00	3568.13
South	U41-L41	546	53.25	42.60	49.00	7.70	0.750	57.27	Carbon	29.88	1352.46	1757.25	2556.00	1757.25
South	U42-L42	547	47.50	38.00	34.50	6.23	0.750	49.88	Carbon	30.63	1236.83	1567.50	2280.00	1567.50
South	U43-L43	548	46.63	37.30	25.00	3.36	0.750	67.04	Carbon	28.72	1138.40	1538.64	2238.02	1538.64
South	U44-L44	549	28.97	23.17	19.80	2.76	0.750	64.50	Carbon	29.04	715.08	955.91	1390.42	955.91
South	U45-L45	550	24.82	19.86	18.50	1.96	0.750	85.00	Carbon	26.13	551.31	819.20	1191.57	819.20
South	U46-L46	551	28.97	23.17	20.00	2.76	0.750	65.15	Carbon	28.96	713.11	955.91	1390.42	955.91
South	U47-L47	552	45.38	36.30	25.80	3.32	0.750	69.87	Carbon	28.36	1093.69	1497.39	2178.02	1497.39
South	U48-L48	553	43.87	35.09	35.84	6.12	0.750	52.72	Carbon	30.36	1131.88	1447.62	2105.63	1447.62
South	U49-L49	554	56.75	45.40	52.00	6.18	0.750	75.74	Carbon	27.54	1328.64	1872.75	2724.00	1872.75
South	U50-L50	555	110.16	88.13	74.00	8.25	0.750	80.74	Carbon	26.80	2509.22	3635.16	5287.50	3635.16
South	U51-L51	556	73.34	58.68	54.50	6.08	0.750	80.67	Carbon	26.81	1671.35	2420.34	3520.50	2420.34
South	U52-L52	557	62.69	50.15	40.00	6.03	0.750	59.68	Carbon	29.61	1577.88	2068.69	3009.00	2068.69
South	U53-L53	558	67.78	54.23	30.00	3.93	0.750	68.66	Carbon	28.52	1642.95	2236.79	3253.52	2236.79
South	U54-L54	559	46.63	37.30	24.00	3.36	0.750	64.36	Carbon	29.06	1151.68	1538.64	2238.02	1538.64
South	U55-L55	560	28.97	23.17	20.00	2.76	0.750	65.15	Carbon	28.96	713.11	955.91	1390.42	955.91
South	U56-L56	561	27.44	21.95	19.00	1.99	0.750	86.04	Carbon	25.96	605.37	905.39	1316.93	905.39
South	U57-L57	562	34.85	27.88	20.00	2.79	0.750	64.45	Carbon	29.05	860.51	1150.07	1672.83	1150.07
South	U58-L58	563	57.03	45.63	24.00	3.56	0.750	60.68	Carbon	29.50	1429.96	1882.04	2737.52	1882.04
South	U59-L59	564	73.78	59.03	30.00	3.99	0.750	67.62	Carbon	28.65	1796.80	2434.79	3541.52	2434.79
South	U60-L60	565	65.81	52.65	40.00	6.05	0.750	59.48	Carbon	29.63	1657.79	2171.81	3159.00	2171.81
South	U61-L61	566	68.34	54.68	55.00	6.10	0.750	81.14	Carbon	26.74	1553.28	2255.34	3280.50	2255.34
South	U62-L62	567	102.69	82.15	76.10	8.30	0.750	82.55	Carbon	26.52	2314.67	3388.69	4929.00	3388.69
South	U63-L63	568	59.25	47.40	55.80	6.16	0.750	81.48	Carbon	26.68	1343.91	1955.25	2844.00	1955.25
South	U64-L64	569	54.25	43.40	41.30	6.20	0.750	59.98	Carbon	29.58	1363.89	1790.25	2604.00	1790.25
South	U65-L65	570	51.66	41.33	31.00	3.68	0.750	75.80	Carbon	27.54	1209.01	1704.67	2479.52	1704.67
South	U66-L66	571	43.70	34.96	24.50	3.34	0.750	66.10	Carbon	28.84	1071.34	1442.00	2097.46	1442.00
South	U67-L67	572	28.97	23.17	20.50	2.76	0.750	66.78	Carbon	28.76	708.07	955.91	1390.42	955.91
South	U68-L68	573	28.97	23.17	19.80	2.76	0.750	64.50	Carbon	29.04	715.08	955.91	1390.42	955.91
South	U69-L69	574	28.97	23.17	20.80	2.76	0.750	67.76	Carbon	28.63	704.99	955.91	1390.42	955.91
South	U70-L70	575	43.70	34.96	25.10	3.34	0.750	67.72	Carbon	28.64	1063.69	1442.00	2097.46	1442.00
South	U71-L71	576	47.50	38.00	32.03	6.15	0.750	46.84	Carbon	30.91	1248.11	1567.50	2280.00	1567.50
South	U72-L72	577	54.25	43.40	42.60	6.20	0.750	61.87	Carbon	29.36	1353.80	1790.25	2604.00	1790.25
South	U73-L73	578	59.00	47.20	57.40	6.99	0.750	73.92	Carbon	27.80	1394.32	1947.00	2832.00	1947.00
South	U74-L74	579	122.53	98.03	78.30	8.17	0.750	86.24	Carbon	25.93	2700.13	4043.53	5881.50	4043.53
South	U75-L75	580	79.19	63.35	58.00	8.37	0.750	62.38	Carbon	29.30	1972.11	2613.19	3801.00	2613.19
South	U76-L76	581	75.69	60.55	43.90	7.63	0.750	51.80	Carbon	30.45	1958.86	2497.69	3633.00	2497.69
South	U77-L77	582	82.59	66.08	33.90	6.81	0.750	44.79	Carbon	31.09	2182.81	2725.59	3964.50	2725.59
South	U78-L78	583	71.53	57.23	27.20	6.11	0.750	40.06	Carbon	31.47	1913.65	2360.53	3433.50	2360.53

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	U79-L79	584	56.25	45.00	23.40	6.10	0.750	34.54	Carbon	31.87	1523.57	1856.25	2700.00	1856.25
South	U80-L80	585	46.78	37.43	21.30	3.58	0.750	53.52	Carbon	30.28	1203.90	1543.79	2245.52	1543.79
South	U81-L81	586	28.97	23.17	20.50	2.76	0.750	66.78	Carbon	28.76	708.07	955.91	1390.42	955.91
South	U82-L82	587	28.97	23.17	20.30	2.76	0.750	66.13	Carbon	28.84	710.10	955.91	1390.42	955.91
South	U83-L83	588	44.78	35.83	20.80	3.42	0.750	54.80	Carbon	30.14	1147.40	1477.79	2149.52	1477.79
South	U84-L84	589	60.63	48.50	22.20	3.69	0.750	54.20	Carbon	30.21	1556.54	2000.64	2910.02	2000.64
South	U85-L85	590	80.22	64.18	24.50	6.06	0.750	36.41	Carbon	31.74	2164.15	2647.22	3850.50	2647.22
South	U86-L86	591	80.63	64.50	28.70	6.07	0.750	42.58	Carbon	31.28	2143.32	2660.63	3870.00	2660.63
South	U87-L87	592	75.72	60.58	35.50	6.85	0.750	46.63	Carbon	30.93	1990.78	2498.72	3634.50	2498.72
South	U88-L88	593	67.25	53.80	46.00	7.72	0.750	53.65	Carbon	30.26	1729.84	2219.25	3228.00	2219.25
South	U89-L89	594	68.06	54.45	60.20	8.29	0.750	65.38	Carbon	28.93	1673.91	2246.06	3267.00	2246.06
South	U90-L90	595	77.81	62.25	80.80	8.19	0.750	88.75	Carbon	25.51	1687.10	2567.81	3735.00	2567.81
South	U91-L91	596	41.25	33.00	57.00	6.21	0.750	82.63	Carbon	26.50	929.33	1361.25	1980.00	1361.25
South	U92-L92	597	43.75	35.00	42.00	6.18	0.750	61.12	Carbon	29.45	1095.06	1443.75	2100.00	1443.75
South	U93-L93	598	48.75	39.00	31.50	6.14	0.750	46.14	Carbon	30.98	1283.54	1608.75	2340.00	1608.75
South	U94-L94	599	64.13	51.30	24.00	3.56	0.750	60.74	Carbon	29.49	1607.44	2116.14	3078.02	2116.14
South	U95-L95	600	62.38	49.90	20.00	3.54	0.750	50.82	Carbon	30.54	1619.36	2058.39	2994.02	2058.39
South	U96-L96	601	89.81	71.85	18.05	4.82	0.750	33.72	Carbon	31.92	2436.69	2963.81	4311.00	2963.81
South	U97-L97	602	43.70	34.96	17.30	3.34	0.750	46.67	Carbon	30.93	1148.74	1442.00	2097.46	1442.00
South	U98-L98	603	34.85	27.88	16.70	2.79	0.750	53.82	Carbon	30.24	895.95	1150.07	1672.83	1150.07
South	U99-L99	604	27.44	21.95	16.30	1.99	0.750	73.81	Carbon	27.82	648.73	905.39	1316.93	905.39
South	U100-L100	605	23.64	18.91	16.00	1.97	0.750	73.26	Carbon	27.89	560.44	780.01	1134.56	780.01
South	U101-L101	606	27.44	21.95	15.90	1.99	0.750	72.00	Carbon	28.07	654.59	905.39	1316.93	905.39
South	U102-L102	607	34.85	27.88	16.00	2.79	0.750	51.56	Carbon	30.47	902.65	1150.07	1672.83	1150.07
South	U103-L103	608	43.70	34.96	16.30	3.34	0.750	43.98	Carbon	31.16	1157.38	1442.00	2097.46	1442.00
South	U104-L104	609	54.94	43.95	16.60	6.10	0.750	24.48	Carbon	32.43	1514.39	1812.94	2637.00	1812.94
South	U105-L105	610	58.78	47.03	18.10	3.58	0.750	45.57	Carbon	31.03	1550.15	1939.79	2821.52	1939.79
South	U106-L106	611	60.53	48.43	22.10	3.59	0.750	55.41	Carbon	30.08	1547.63	1997.54	2905.52	1997.54
South	U107-L107	612	49.25	39.40	28.70	6.24	0.750	41.42	Carbon	31.37	1313.15	1625.25	2364.00	1625.25
South	U108-L108	613	41.25	33.00	38.20	6.21	0.750	55.38	Carbon	30.08	1054.78	1361.25	1980.00	1361.25
South	U109-L109	614	42.75	34.20	54.20	7.03	0.750	69.37	Carbon	28.42	1032.83	1410.75	2052.00	1410.75
South	U110-L110	615	56.00	44.80	77.00	8.88	0.750	78.02	Carbon	27.21	1295.18	1848.00	2688.00	1848.00
South	U111-L111	616	64.25	51.40	58.20	7.75	0.750	67.58	Carbon	28.66	1564.94	2120.25	3084.00	2120.25
South	U112-L112	617	69.44	55.55	44.50	6.90	0.750	58.08	Carbon	29.79	1758.35	2291.44	3333.00	2291.44
South	U113-L113	618	77.69	62.15	35.10	6.84	0.750	46.18	Carbon	30.97	2045.21	2563.69	3729.00	2563.69
South	U114-L114	619	80.00	64.00	29.20	6.96	0.750	37.79	Carbon	31.64	2151.65	2640.00	3840.00	2640.00
South	U115-L115	620	81.13	64.90	25.90	6.92	0.750	33.69	Carbon	31.92	2201.13	2677.13	3894.00	2677.13
South	U116-L116	621	64.63	51.70	24.30	3.75	0.750	58.31	Carbon	29.77	1635.09	2132.64	3102.02	2132.64
South	U117-L117	622	55.78	44.63	23.60	3.77	0.750	56.36	Carbon	29.98	1421.42	1840.79	2677.52	1840.79
South	U118-L118	623	28.97	23.17	23.10	2.76	0.750	75.25	Carbon	27.61	679.90	955.91	1390.42	955.91
South	U119-L119	624	28.97	23.17	23.00	2.76	0.750	74.93	Carbon	27.66	681.04	955.91	1390.42	955.91
South	U120-L120	625	36.16	28.93	23.60	3.21	0.750	66.09	Carbon	28.85	886.51	1193.17	1735.52	1193.17
South	U121-L121	626	40.72	32.58	25.30	3.31	0.750	68.73	Carbon	28.51	986.73	1343.83	1954.67	1343.83
South	U122-L122	627	57.31	45.85	28.60	6.20	0.750	41.50	Carbon	31.36	1527.79	1891.31	2751.00	1891.31
South	U123-L123	628	81.69	65.35	33.70	7.58	0.750	40.01	Carbon	31.48	2185.58	2695.69	3921.00	2695.69
South	U124-L124	629	85.13	68.10	41.00	7.67	0.750	48.13	Carbon	30.80	2228.31	2809.13	4086.00	2809.13
South	U125-L125	630	89.13	71.30	50.90	8.40	0.750	54.52	Carbon	30.17	2285.75	2941.13	4278.00	2941.13
South	U126-L126	631	108.06	86.45	65.50	8.25	0.750	71.48	Carbon	28.14	2584.76	3566.06	5187.00	3566.06
North	U0-L0	632	46.53	37.23	33.30	3.44	0.750	87.08	Carbon	25.79	1019.95	1535.54	2233.52	1535.54
North	U1-L1	633	53.53	42.83	26.50	3.53	0.750	67.64	Carbon	28.65	1303.54	1766.54	2569.52	1766.54
North	U2-L2	634	40.72	32.58	21.10	3.31	0.750	57.32	Carbon	29.87	1034.08	1343.83	1954.67	1343.83
North	U3-L3	635	28.97	23.17	17.60	2.76	0.750	57.34	Carbon	29.87	735.53	955.91	1390.42	955.91
North	U4-L4	636	28.97	23.17	15.30	2.76	0.750	49.84	Carbon	30.64	754.34	955.91	1390.42	955.91

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U5-L5	637	21.57	17.25	15.00	1.96	0.750	68.92	Carbon	28.48	522.14	711.73	1035.25	711.73
North	U6-L6	638	36.91	29.53	15.60	3.27	0.750	42.97	Carbon	31.24	980.13	1217.92	1771.52	1217.92
North	U7-L7	639	43.31	34.65	18.62	6.20	0.750	27.05	Carbon	32.30	1189.30	1429.31	2079.00	1429.31
North	U8-L8	640	57.03	45.63	23.60	3.56	0.750	59.67	Carbon	29.61	1435.58	1882.04	2737.52	1882.04
North	U9-L9	641	64.03	51.23	30.50	3.62	0.750	75.92	Carbon	27.52	1497.67	2113.04	3073.52	2113.04
North	U10-L10	642	64.75	51.80	40.00	6.81	0.750	52.85	Carbon	30.34	1670.02	2136.75	3108.00	2136.75
North	U11-L11	643	50.69	40.55	30.50	6.10	0.750	45.00	Carbon	31.07	1338.80	1672.69	2433.00	1672.69
North	U12-L12	644	46.63	37.30	23.50	3.36	0.750	63.02	Carbon	29.22	1158.12	1538.64	2238.02	1538.64
North	U13-L13	645	35.41	28.33	19.00	3.26	0.750	52.47	Carbon	30.38	914.33	1168.42	1699.52	1168.42
North	U14-L14	646	28.97	23.17	16.20	2.76	0.750	52.77	Carbon	30.35	747.30	955.91	1390.42	955.91
North	U15-L15	647	21.57	17.25	15.50	1.96	0.750	71.22	Carbon	28.18	516.53	711.73	1035.25	711.73
North	U16-L16	648	28.97	23.17	16.50	2.76	0.750	53.75	Carbon	30.25	744.86	955.91	1390.42	955.91
North	U17-L17	649	37.78	30.23	20.30	3.29	0.750	55.58	Carbon	30.06	965.42	1246.79	1813.52	1246.79
North	U18-L18	650	42.89	34.31	26.50	3.29	0.750	72.45	Carbon	28.01	1021.13	1415.47	2058.86	1415.47
North	U19-L19	651	50.69	40.55	36.00	6.10	0.750	53.11	Carbon	30.32	1306.18	1672.69	2433.00	1672.69
North	U20-L20	652	64.75	51.80	48.50	6.81	0.750	64.08	Carbon	29.09	1601.27	2136.75	3108.00	2136.75
North	U21-L21	653	46.25	37.00	36.00	6.16	0.750	52.56	Carbon	30.37	1193.99	1526.25	2220.00	1526.25
North	U22-L22	654	42.16	33.73	26.50	3.37	0.750	70.70	Carbon	28.25	1012.13	1391.17	2023.52	1391.17
North	U23-L23	655	38.00	30.40	20.30	3.35	0.750	54.59	Carbon	30.17	974.41	1254.09	1824.13	1254.09
North	U24-L24	656	28.97	23.17	17.00	2.76	0.750	55.38	Carbon	30.08	740.69	955.91	1390.42	955.91
North	U25-L25	657	21.57	17.25	16.50	1.96	0.750	75.81	Carbon	27.53	504.75	711.73	1035.25	711.73
North	U26-L26	658	28.97	23.17	17.80	2.76	0.750	57.99	Carbon	29.80	733.77	955.91	1390.42	955.91
North	U27-L27	659	37.78	30.23	22.20	3.29	0.750	60.78	Carbon	29.49	946.93	1246.79	1813.52	1246.79
North	U28-L28	660	40.84	32.68	29.54	6.20	0.750	42.85	Carbon	31.25	1085.03	1347.84	1960.50	1347.84
North	U29-L29	661	48.75	39.00	41.00	6.14	0.750	60.05	Carbon	29.57	1225.31	1608.75	2340.00	1608.75
North	U30-L30	662	102.00	81.60	57.00	7.54	0.750	68.02	Carbon	28.60	2479.54	3366.00	4896.00	3366.00
North	U31-L31	663	58.25	46.60	41.00	7.83	0.750	47.14	Carbon	30.89	1529.27	1922.25	2796.00	1922.25
North	U32-L32	664	53.75	43.00	29.50	6.90	0.750	38.47	Carbon	31.59	1443.36	1773.75	2580.00	1773.75
North	U33-L33	665	46.25	37.00	22.30	6.16	0.750	32.56	Carbon	31.99	1257.67	1526.25	2220.00	1526.25
North	U34-L34	666	28.97	23.17	18.30	2.76	0.750	59.62	Carbon	29.62	729.29	955.91	1390.42	955.91
North	U35-L35	667	23.64	18.91	17.50	1.97	0.750	80.13	Carbon	26.89	540.30	780.01	1134.56	780.01
North	U36-L36	668	40.91	32.73	19.60	3.40	0.750	51.92	Carbon	30.44	1058.40	1350.09	1963.77	1350.09
North	U37-L37	669	48.75	39.00	24.30	6.14	0.750	35.59	Carbon	31.80	1317.51	1608.75	2340.00	1608.75
North	U38-L38	670	53.75	43.00	34.50	6.90	0.750	44.99	Carbon	31.07	1419.71	1773.75	2580.00	1773.75
North	U39-L39	671	59.25	47.40	49.00	7.63	0.750	57.82	Carbon	29.82	1501.80	1955.25	2844.00	1955.25
North	U40-L40	672	108.13	86.50	70.00	8.21	0.750	76.78	Carbon	27.39	2517.53	3568.13	5190.00	3568.13
North	U41-L41	673	50.25	40.20	49.00	7.74	0.750	56.95	Carbon	29.91	1277.74	1658.25	2412.00	1658.25
North	U42-L42	674	48.50	38.80	34.50	6.16	0.750	50.40	Carbon	30.58	1260.82	1600.50	2328.00	1600.50
North	U43-L43	675	45.74	36.60	25.00	3.34	0.750	67.35	Carbon	28.69	1115.37	1509.57	2195.74	1509.57
North	U44-L44	676	28.97	23.17	19.80	2.76	0.750	64.50	Carbon	29.04	715.08	955.91	1390.42	955.91
North	U45-L45	677	25.39	20.31	18.50	1.98	0.750	84.28	Carbon	26.24	566.33	837.82	1218.64	837.82
North	U46-L46	678	28.97	23.17	20.00	2.76	0.750	65.15	Carbon	28.96	713.11	955.91	1390.42	955.91
North	U47-L47	679	46.63	37.30	25.70	3.36	0.750	68.92	Carbon	28.48	1128.77	1538.64	2238.02	1538.64
North	U48-L48	680	36.34	29.08	35.86	6.10	0.750	52.91	Carbon	30.34	937.17	1199.34	1744.50	1199.34
North	U49-L49	681	53.25	42.60	52.00	7.70	0.750	60.77	Carbon	29.49	1334.64	1757.25	2556.00	1757.25
North	U50-L50	682	128.13	102.50	74.00	8.14	0.750	81.80	Carbon	26.64	2900.79	4228.13	6150.00	4228.13
North	U51-L51	683	79.19	63.35	54.50	8.37	0.750	58.61	Carbon	29.73	2001.27	2613.19	3801.00	2613.19
North	U52-L52	684	75.69	60.55	40.00	7.63	0.750	47.19	Carbon	30.88	1986.74	2497.69	3633.00	2497.69
North	U53-L53	685	74.94	59.95	30.00	6.86	0.750	39.37	Carbon	31.53	2008.09	2472.94	3597.00	2472.94
North	U54-L54	686	64.25	51.40	24.00	6.13	0.750	35.21	Carbon	31.82	1737.82	2120.25	3084.00	2120.25
North	U55-L55	687	33.34	26.67	20.00	2.76	0.750	65.29	Carbon	28.95	820.27	1100.20	1600.30	1100.20
North	U56-L56	688	28.97	23.17	19.00	2.76	0.750	61.90	Carbon	29.36	722.80	955.91	1390.42	955.91
North	U57-L57	689	34.28	27.43	20.00	3.20	0.750	56.24	Carbon	29.99	873.92	1131.29	1645.52	1131.29

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U58-L58	690	68.69	54.95	24.00	6.11	0.750	35.33	Carbon	31.81	1857.35	2266.69	3297.00	2266.69
North	U59-L59	691	78.38	62.70	30.00	6.94	0.750	38.91	Carbon	31.56	2102.47	2586.38	3762.00	2586.38
North	U60-L60	692	78.69	62.95	40.00	7.60	0.750	47.35	Carbon	30.87	2064.55	2596.69	3777.00	2596.69
North	U61-L61	693	81.69	65.35	55.00	7.58	0.750	65.31	Carbon	28.94	2009.66	2695.69	3921.00	2695.69
North	U62-L62	694	115.13	92.10	76.10	8.21	0.750	83.42	Carbon	26.38	2581.49	3799.13	5526.00	3799.13
North	U63-L63	695	55.25	44.20	55.80	7.87	0.750	63.79	Carbon	29.13	1368.00	1823.25	2652.00	1823.25
North	U64-L64	696	50.75	40.60	41.30	7.08	0.750	52.47	Carbon	30.38	1310.57	1674.75	2436.00	1674.75
North	U65-L65	697	47.35	37.88	31.00	3.88	0.750	71.84	Carbon	28.09	1130.61	1562.59	2272.86	1562.59
North	U66-L66	698	43.70	34.96	24.50	3.34	0.750	66.10	Carbon	28.84	1071.34	1442.00	2097.46	1442.00
North	U67-L67	699	28.97	23.17	20.50	2.76	0.750	66.78	Carbon	28.76	708.07	955.91	1390.42	955.91
North	U68-L68	700	28.97	23.17	19.80	2.76	0.750	64.50	Carbon	29.04	715.08	955.91	1390.42	955.91
North	U69-L69	701	28.97	23.17	20.80	2.76	0.750	67.76	Carbon	28.63	704.99	955.91	1390.42	955.91
North	U70-L70	702	43.70	34.96	25.10	3.34	0.750	67.72	Carbon	28.64	1063.69	1442.00	2097.46	1442.00
North	U71-L71	703	53.75	43.00	32.03	6.11	0.750	47.16	Carbon	30.88	1411.02	1773.75	2580.00	1773.75
North	U72-L72	704	54.25	43.40	42.60	6.20	0.750	61.87	Carbon	29.36	1353.80	1790.25	2604.00	1790.25
North	U73-L73	705	59.00	47.20	57.40	6.99	0.750	73.92	Carbon	27.80	1394.32	1947.00	2832.00	1947.00
North	U74-L74	706	122.53	98.03	78.30	8.17	0.750	86.24	Carbon	25.93	2700.13	4043.53	5881.50	4043.53
North	U75-L75	707	79.19	63.35	58.00	8.37	0.750	62.38	Carbon	29.30	1972.11	2613.19	3801.00	2613.19
North	U76-L76	708	75.69	60.55	43.90	7.63	0.750	51.80	Carbon	30.45	1958.86	2497.69	3633.00	2497.69
North	U77-L77	709	82.59	66.08	33.90	6.81	0.750	44.79	Carbon	31.09	2182.81	2725.59	3964.50	2725.59
North	U78-L78	710	71.53	57.23	27.20	6.11	0.750	40.06	Carbon	31.47	1913.65	2360.53	3433.50	2360.53
North	U79-L79	711	56.25	45.00	23.40	6.10	0.750	34.54	Carbon	31.87	1523.57	1856.25	2700.00	1856.25
North	U80-L80	712	47.78	38.23	21.30	3.61	0.750	53.15	Carbon	30.31	1231.15	1576.79	2293.52	1576.79
North	U81-L81	713	28.97	23.17	20.50	2.76	0.750	66.78	Carbon	28.76	708.07	955.91	1390.42	955.91
North	U82-L82	714	28.97	23.17	20.30	2.76	0.750	66.13	Carbon	28.84	710.10	955.91	1390.42	955.91
North	U83-L83	715	41.13	32.90	20.80	3.49	0.750	53.60	Carbon	30.27	1058.09	1357.21	1974.12	1357.21
North	U84-L84	716	58.88	47.10	22.20	3.74	0.750	53.42	Carbon	30.29	1515.62	1942.89	2826.02	1942.89
North	U85-L85	717	80.22	64.18	24.50	6.06	0.750	36.41	Carbon	31.74	2164.15	2647.22	3850.50	2647.22
North	U86-L86	718	80.63	64.50	28.70	6.07	0.750	42.58	Carbon	31.28	2143.32	2660.63	3870.00	2660.63
North	U87-L87	719	74.09	59.28	35.50	6.88	0.750	46.44	Carbon	30.95	1949.12	2445.09	3556.50	2445.09
North	U88-L88	720	67.25	53.80	46.00	7.72	0.750	53.65	Carbon	30.26	1729.84	2219.25	3228.00	2219.25
North	U89-L89	721	68.06	54.45	60.20	8.29	0.750	65.38	Carbon	28.93	1673.91	2246.06	3267.00	2246.06
North	U90-L90	722	77.81	62.25	80.80	8.19	0.750	88.75	Carbon	25.51	1687.10	2567.81	3735.00	2567.81
North	U91-L91	723	41.25	33.00	57.00	6.21	0.750	82.63	Carbon	26.50	929.33	1361.25	1980.00	1361.25
North	U92-L92	724	43.75	35.00	42.00	6.18	0.750	61.12	Carbon	29.45	1095.06	1443.75	2100.00	1443.75
North	U93-L93	725	48.75	39.00	31.50	6.14	0.750	46.14	Carbon	30.98	1283.54	1608.75	2340.00	1608.75
North	U94-L94	726	64.13	51.30	24.00	3.56	0.750	60.74	Carbon	29.49	1607.44	2116.14	3078.02	2116.14
North	U95-L95	727	61.38	49.10	20.00	3.46	0.750	52.09	Carbon	30.42	1586.94	2025.39	2946.02	2025.39
North	U96-L96	728	85.50	68.40	18.05	4.74	0.750	34.28	Carbon	31.88	2317.04	2821.50	4104.00	2821.50
North	U97-L97	729	42.76	34.21	17.40	3.29	0.750	47.53	Carbon	30.85	1121.31	1411.06	2052.46	1411.06
North	U98-L98	730	34.85	27.88	16.90	2.79	0.750	54.46	Carbon	30.18	893.98	1150.07	1672.83	1150.07
North	U99-L99	731	27.44	21.95	16.60	1.99	0.750	75.17	Carbon	27.63	644.24	905.39	1316.93	905.39
North	U100-L100	732	23.64	18.91	16.50	1.97	0.750	75.55	Carbon	27.57	553.93	780.01	1134.56	780.01
North	U101-L101	733	27.44	21.95	16.50	1.99	0.750	74.72	Carbon	27.69	645.74	905.39	1316.93	905.39
North	U102-L102	734	34.85	27.88	16.70	2.79	0.750	53.82	Carbon	30.24	895.95	1150.07	1672.83	1150.07
North	U103-L103	735	42.82	34.25	17.00	3.32	0.750	46.09	Carbon	30.98	1127.50	1413.00	2055.27	1413.00
North	U104-L104	736	43.69	34.95	17.46	6.18	0.750	25.41	Silicon	43.86	1628.63	1965.94	2446.50	1965.94
North	U105-L105	737	48.28	38.63	19.10	3.47	0.750	49.61	Silicon	40.65	1668.15	2172.67	2703.77	2172.67
North	U106-L106	738	46.28	37.03	23.10	3.51	0.750	59.29	Silicon	38.78	1525.70	2082.67	2591.77	2082.67
North	U107-L107	739	48.28	38.63	29.70	3.47	0.750	77.14	Silicon	34.48	1414.88	2172.67	2703.77	2172.67
North	U108-L108	740	41.25	33.00	39.30	6.21	0.750	56.97	Silicon	39.26	1376.50	1856.25	2310.00	1856.25
North	U109-L109	741	58.75	47.00	55.40	5.92	0.750	84.29	Silicon	32.43	1619.64	2643.75	3290.00	2643.75
North	U110-L110	742	56.00	44.80	78.20	8.88	0.750	79.24	Silicon	33.89	1613.38	2520.00	3136.00	2520.00

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L / $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U111-L111	743	64.25	51.40	59.40	7.75	0.750	68.98	Silicon	36.58	1997.96	2891.25	3598.00	2891.25
North	U112-L112	744	69.44	55.55	45.70	6.90	0.750	59.64	Silicon	38.71	2284.60	3124.69	3888.50	3124.69
North	U113-L113	745	91.11	72.89	36.40	7.69	0.750	42.62	Silicon	41.79	3236.12	4099.92	5102.13	4099.92
North	U114-L114	746	87.73	70.19	30.50	7.61	0.750	36.09	Silicon	42.70	3184.04	3948.05	4913.13	3948.05
North	U115-L115	747	74.23	59.39	27.30	7.72	0.750	31.83	Silicon	43.21	2726.40	3340.55	4157.13	3340.55
North	U116-L116	748	62.63	50.10	25.70	3.72	0.750	62.18	Silicon	38.16	2031.35	2818.15	3507.03	2818.15
North	U117-L117	749	53.53	42.83	25.10	3.53	0.750	64.07	Silicon	37.74	1717.24	2408.92	2997.77	2408.92
North	U118-L118	750	28.97	23.17	24.60	2.76	0.750	80.14	Silicon	33.64	828.30	1303.52	1622.15	1303.52
North	U119-L119	751	28.97	23.17	24.50	2.76	0.750	79.81	Silicon	33.73	830.57	1303.52	1622.15	1303.52
North	U120-L120	752	30.93	24.74	25.10	2.72	0.750	83.15	Silicon	32.77	861.44	1391.67	1731.85	1391.67
North	U121-L121	753	46.63	37.30	26.90	3.36	0.750	72.14	Silicon	35.80	1418.62	2098.15	2611.03	2098.15
North	U122-L122	754	68.63	54.90	30.20	3.81	0.750	71.40	Silicon	35.98	2098.95	3088.15	3843.03	3088.15
North	U123-L123	755	68.69	54.95	35.30	6.11	0.750	51.97	Silicon	40.22	2348.38	3090.94	3846.50	3090.94
North	U124-L124	756	83.44	66.75	42.60	7.69	0.750	49.83	Silicon	40.61	2880.07	3754.69	4672.50	3754.69
North	U125-L125	757	79.19	63.35	52.60	8.37	0.750	56.57	Silicon	39.34	2647.96	3563.44	4434.50	3563.44
North	U126-L126	758	110.55	88.44	66.90	8.21	0.750	73.36	Silicon	35.48	3334.09	4974.61	6190.63	4974.61
South	U0-L1	759	43.70	37.14	33.20	3.34	0.750	89.57	Carbon	25.37	942.25	1442.00	2228.55	1442.00
South	U1-L2	760	43.70	37.14	29.20	3.34	0.750	78.78	Carbon	27.10	1006.43	1442.00	2228.55	1442.00
South	U2-L3	761	34.85	29.62	26.70	2.79	0.750	86.04	Carbon	25.96	768.95	1150.07	1777.38	1150.07
South	U3-L4	762	28.97	24.62	25.20	2.76	0.750	82.09	Carbon	26.59	654.69	955.91	1477.32	955.91
South	U4-L5	763	37.78	32.11	25.00	3.29	0.750	68.44	Carbon	28.54	916.67	1246.79	1926.86	1246.79
South	U6-L5	764	41.82	35.55	25.00	3.41	0.750	65.99	Carbon	28.86	1025.85	1380.13	2132.92	1380.13
South	U7-L6	765	57.03	48.48	25.30	3.56	0.750	63.96	Carbon	29.11	1411.07	1882.04	2908.61	1882.04
South	U8-L7	766	53.28	45.29	27.40	3.61	0.750	68.38	Carbon	28.55	1293.14	1758.29	2717.36	1758.29
South	U9-L8	767	46.63	39.63	31.00	3.36	0.750	83.13	Carbon	26.43	1047.30	1538.64	2377.90	1538.64
South	U10-L9	768	37.78	32.11	36.60	3.29	0.750	100.20	Carbon	23.45	753.06	1246.79	1926.86	1246.79
South	U10-L11	769	37.78	32.11	36.30	3.29	0.750	99.38	Carbon	23.61	758.07	1246.79	1926.86	1246.79
South	U11-L12	770	37.78	32.11	30.70	3.29	0.750	84.05	Carbon	26.28	843.98	1246.79	1926.86	1246.79
South	U12-L13	771	40.72	34.61	27.50	3.31	0.750	74.71	Carbon	27.69	958.51	1343.83	2076.83	1343.83
South	U13-L14	772	34.85	29.62	25.60	2.79	0.750	82.50	Carbon	26.53	785.78	1150.07	1777.38	1150.07
South	U14-L15	773	28.97	24.62	25.20	2.76	0.750	82.09	Carbon	26.59	654.69	955.91	1477.32	955.91
South	U16-L15	774	28.97	24.62	25.40	2.76	0.750	82.75	Carbon	26.49	652.17	955.91	1477.32	955.91
South	U17-L16	775	34.85	29.62	26.00	2.79	0.750	83.79	Carbon	26.32	779.74	1150.07	1777.38	1150.07
South	U18-L17	776	37.78	32.11	28.60	3.29	0.750	78.30	Carbon	27.17	872.49	1246.79	1926.86	1246.79
South	U19-L18	777	37.78	32.11	33.30	3.29	0.750	91.17	Carbon	25.09	805.88	1246.79	1926.86	1246.79
South	U20-L19	778	48.28	41.04	41.30	3.47	0.750	107.26	Carbon	22.06	905.17	1593.29	2462.36	1593.29
South	U20-L21	779	37.78	32.11	41.00	3.29	0.750	112.25	Carbon	21.02	674.88	1246.79	1926.86	1246.79
South	U21-L22	780	31.93	27.14	33.10	2.78	0.750	107.14	Carbon	22.08	599.22	1053.55	1628.22	1053.55
South	U22-L23	781	37.78	32.11	28.40	3.29	0.750	77.75	Carbon	27.25	875.10	1246.79	1926.86	1246.79
South	U23-L24	782	37.78	32.11	26.10	3.29	0.750	71.46	Carbon	28.14	903.80	1246.79	1926.86	1246.79
South	U24-L25	783	28.97	24.62	25.80	2.76	0.750	84.05	Carbon	26.28	647.08	955.91	1477.32	955.91
South	U26-L25	784	28.97	24.62	26.00	2.76	0.750	84.70	Carbon	26.18	644.51	955.91	1477.32	955.91
South	U27-L26	785	22.12	18.81	26.90	2.92	0.750	82.99	Carbon	26.45	497.40	730.12	1128.36	730.12
South	U28-L27	786	31.93	27.14	30.00	2.78	0.750	97.11	Carbon	24.03	652.12	1053.55	1628.22	1053.55
South	U29-L28	787	31.93	27.14	35.80	2.78	0.750	115.88	Carbon	20.23	548.91	1053.55	1628.22	1053.55
South	U30-L29	788	28.97	24.62	45.80	2.76	0.750	149.20	Carbon	12.86	316.57	955.91	1477.32	955.91
South	U30-L31	789	37.78	32.11	45.50	3.29	0.750	124.57	Carbon	18.24	585.76	1246.79	1926.86	1246.79
South	U31-L32	790	46.63	39.63	35.50	3.36	0.750	95.20	Carbon	24.38	966.17	1538.64	2377.90	1538.64
South	U32-L33	791	40.72	34.61	29.80	3.46	0.750	77.52	Carbon	27.28	944.39	1343.82	2076.82	1343.82
South	U33-L34	792	43.70	37.14	27.00	3.34	0.750	72.84	Carbon	27.95	1038.23	1442.00	2228.55	1442.00
South	U34-L35	793	28.97	24.62	26.50	2.76	0.750	86.33	Carbon	25.91	637.98	955.91	1477.32	955.91
South	U36-L35	794	28.97	24.62	26.70	2.76	0.750	86.98	Carbon	25.80	635.34	955.91	1477.32	955.91
South	U37-L36	795	43.70	37.14	28.10	3.34	0.750	75.81	Carbon	27.53	1022.64	1442.00	2228.55	1442.00

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	U38-L37	796	50.03	42.53	31.60	3.49	0.750	81.56	Carbon	26.67	1134.31	1651.04	2551.61	1651.04
South	U39-L38	797	43.70	37.14	40.00	3.34	0.750	107.92	Carbon	21.92	814.24	1442.00	2228.55	1442.00
South	U40-L39	798	37.78	32.11	53.10	3.29	0.750	145.38	Carbon	13.54	434.92	1246.79	1926.86	1246.79
South	U40-L41	799	28.97	24.62	52.80	2.76	0.750	172.01	Carbon	9.67	238.20	955.91	1477.32	955.91
South	U41-L42	800	34.85	29.62	39.70	2.79	0.750	127.94	Carbon	17.43	516.35	1150.07	1777.38	1150.07
South	U42-L43	801	37.78	32.11	31.90	3.29	0.750	87.34	Carbon	25.74	826.78	1246.79	1926.86	1246.79
South	U43-L44	802	34.85	29.62	28.00	2.79	0.750	90.23	Carbon	25.26	748.14	1150.07	1777.38	1150.07
South	U44-L45	803	21.57	18.33	27.10	1.96	0.750	124.52	Carbon	18.25	334.61	711.73	1099.95	711.73
South	U46-L45	804	21.57	18.33	27.40	1.96	0.750	125.89	Carbon	17.92	328.60	711.73	1099.95	711.73
South	U47-L46	805	34.85	29.62	28.40	2.79	0.750	91.52	Carbon	25.03	741.53	1150.07	1777.38	1150.07
South	U48-L47	806	37.78	32.11	31.90	3.29	0.750	87.34	Carbon	25.74	826.78	1246.79	1926.86	1246.79
South	U49-L48	807	26.07	22.16	40.20	2.94	0.750	122.93	Carbon	18.63	412.77	860.38	1329.68	860.38
South	U50-L49	808	28.97	24.62	55.90	2.76	0.750	182.10	Carbon	8.63	212.51	955.91	1477.32	955.91
South	U50-L51	809	37.78	32.11	57.90	3.29	0.750	158.52	Carbon	11.39	365.80	1246.79	1926.86	1246.79
South	U51-L52	810	43.70	37.14	44.60	3.34	0.750	120.33	Carbon	19.23	714.16	1442.00	2228.55	1442.00
South	U52-L53	811	41.01	34.86	35.90	3.58	0.750	90.32	Carbon	25.24	879.82	1353.30	2091.46	1353.30
South	U53-L54	812	43.70	37.14	31.10	3.34	0.750	83.91	Carbon	26.30	976.97	1442.00	2228.55	1442.00
South	U54-L55	813	37.78	32.11	28.20	3.29	0.750	77.21	Carbon	27.33	877.69	1246.79	1926.86	1246.79
South	U55-L56	814	37.78	32.11	27.50	3.29	0.750	75.29	Carbon	27.61	886.62	1246.79	1926.86	1246.79
South	U57-L56	815	28.97	24.62	27.70	2.76	0.750	90.24	Carbon	25.25	621.82	955.91	1477.32	955.91
South	U58-L57	816	43.70	37.14	28.40	3.34	0.750	76.62	Carbon	27.42	1018.28	1442.00	2228.55	1442.00
South	U59-L58	817	42.32	35.97	31.40	3.61	0.750	78.32	Carbon	27.17	977.18	1396.54	2158.28	1396.54
South	U60-L59	818	44.75	38.04	36.20	3.43	0.750	95.12	Carbon	24.39	927.89	1476.76	2282.27	1476.76
South	U61-L60	819	40.72	34.61	44.90	3.31	0.750	121.97	Carbon	18.85	652.42	1343.83	2076.83	1343.83
South	U62-L61	820	41.25	35.06	58.00	6.21	0.750	84.08	Carbon	26.27	921.27	1361.25	2103.75	1361.25
South	U62-L63	821	41.25	35.06	59.10	6.21	0.750	85.68	Carbon	26.02	912.24	1361.25	2103.75	1361.25
South	U63-L64	822	31.93	27.14	45.80	2.78	0.750	148.25	Carbon	13.02	353.41	1053.55	1628.22	1053.55
South	U64-L65	823	34.85	29.62	36.70	2.79	0.750	118.27	Carbon	19.69	583.42	1150.07	1777.38	1150.07
South	U65-L66	824	37.78	32.11	31.50	3.29	0.750	86.24	Carbon	25.93	832.58	1246.79	1926.86	1246.79
South	U66-L67	825	31.18	26.50	28.50	2.81	0.750	91.16	Carbon	25.09	665.00	1028.80	1589.97	1028.80
South	U67-L68	826	25.39	21.58	28.00	1.98	0.750	127.56	Carbon	17.52	378.11	837.82	1294.81	837.82
South	U69-L68	827	21.57	18.33	28.20	1.96	0.750	129.57	Carbon	17.03	312.22	711.73	1099.95	711.73
South	U70-L69	828	31.93	27.14	29.00	2.78	0.750	93.87	Carbon	24.62	668.08	1053.55	1628.22	1053.55
South	U71-L70	829	37.78	32.11	32.20	3.29	0.750	88.16	Carbon	25.61	822.37	1246.79	1926.86	1246.79
South	U72-L71	830	29.74	25.28	37.90	3.66	0.750	93.22	Carbon	24.73	625.19	981.30	1516.55	981.30
South	U73-L72	831	31.93	27.14	47.30	2.78	0.750	153.10	Carbon	12.21	331.35	1053.55	1628.22	1053.55
South	U74-L73	832	41.25	35.06	61.00	6.21	0.750	88.43	Carbon	25.56	896.24	1361.25	2103.75	1361.25
South	U74-L75	833	53.75	45.69	61.20	6.11	0.750	90.12	Carbon	25.28	1154.78	1773.75	2741.25	1773.75
South	U75-L76	834	58.03	49.33	48.10	4.06	0.750	106.71	Carbon	22.17	1093.50	1915.04	2959.61	1915.04
South	U76-L77	835	65.88	55.99	39.20	3.57	0.750	98.83	Carbon	23.71	1327.63	2173.89	3359.65	2173.89
South	U77-L78	836	67.63	57.48	33.70	3.58	0.750	84.65	Carbon	26.18	1505.09	2231.64	3448.90	2231.64
South	U78-L79	837	64.03	54.43	30.70	3.62	0.750	76.42	Carbon	27.45	1493.75	2113.04	3265.61	2113.04
South	U79-L80	838	43.70	37.14	29.10	3.34	0.750	78.51	Carbon	27.14	1007.93	1442.00	2228.55	1442.00
South	U80-L81	839	34.85	29.62	28.50	2.79	0.750	91.85	Carbon	24.98	739.87	1150.07	1777.38	1150.07
South	U81-L82	840	43.70	37.14	28.30	3.34	0.750	76.35	Carbon	27.45	1019.74	1442.00	2228.55	1442.00
South	U83-L82	841	46.63	39.63	28.60	3.36	0.750	76.70	Carbon	27.40	1086.08	1538.64	2377.90	1538.64
South	U84-L83	842	71.13	60.46	29.00	3.61	0.750	72.36	Carbon	28.02	1693.95	2347.14	3627.40	2347.14
South	U85-L84	843	65.63	55.78	30.00	3.64	0.750	74.24	Carbon	27.76	1548.36	2165.64	3346.90	2165.64
South	U86-L85	844	74.63	63.43	31.80	3.88	0.750	73.80	Carbon	27.82	1764.67	2462.64	3805.90	2462.64
South	U87-L86	845	71.13	60.46	35.10	3.61	0.750	87.58	Carbon	25.70	1553.95	2347.14	3627.40	2347.14
South	U88-L87	846	55.16	46.88	40.80	3.97	0.750	92.52	Carbon	24.86	1165.40	1820.17	2812.99	1820.17
South	U89-L88	847	51.25	43.56	50.20	6.13	0.750	73.73	Carbon	27.83	1212.31	1691.25	2613.75	1691.25
South	U90-L89	848	61.75	52.49	63.50	6.96	0.750	82.08	Carbon	26.59	1395.71	2037.75	3149.25	2037.75

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
South	U90-L91	849	53.75	45.69	60.40	6.90	0.750	78.77	Carbon	27.10	1238.02	1773.75	2741.25	1773.75
South	U91-L92	850	41.25	35.06	46.50	6.21	0.750	67.41	Carbon	28.68	1005.50	1361.25	2103.75	1361.25
South	U92-L93	851	37.78	32.11	37.30	3.29	0.750	102.12	Carbon	23.08	741.22	1246.79	1926.86	1246.79
South	U93-L94	852	40.72	34.61	31.30	3.31	0.750	85.03	Carbon	26.12	904.22	1343.83	2076.83	1343.83
South	U94-L95	853	60.63	51.53	28.30	3.53	0.750	72.23	Carbon	28.04	1444.80	2000.64	3091.90	2000.64
South	U95-L96	854	71.13	60.46	27.00	3.61	0.750	67.37	Carbon	28.68	1734.05	2347.14	3627.40	2347.14
South	U96-L97	855	64.03	54.43	26.50	3.62	0.750	65.96	Carbon	28.86	1570.81	2113.04	3265.61	2113.04
South	U97-L98	856	48.28	41.04	26.10	3.47	0.750	67.79	Carbon	28.63	1174.93	1593.29	2462.36	1593.29
South	U98-L99	857	34.85	29.62	25.90	2.79	0.750	83.47	Carbon	26.37	781.26	1150.07	1777.38	1150.07
South	U99-L100	858	28.97	24.62	25.70	2.76	0.750	83.72	Carbon	26.33	648.36	955.91	1477.32	955.91
South	U101-L100	859	28.97	24.62	25.50	2.76	0.750	83.07	Carbon	26.44	650.91	955.91	1477.32	955.91
South	U102-L101	860	31.93	27.14	25.40	2.78	0.750	82.22	Carbon	26.57	721.04	1053.55	1628.22	1053.55
South	U103-L102	861	48.28	41.04	25.50	3.47	0.750	66.23	Carbon	28.83	1183.08	1593.29	2462.36	1593.29
South	U104-L103	862	64.03	54.43	25.60	3.62	0.750	63.72	Carbon	29.14	1585.86	2113.04	3265.61	2113.04
South	U105-L104	863	71.70	60.94	25.80	3.63	0.750	64.01	Carbon	29.10	1773.62	2366.00	3656.55	2366.00
South	U106-L105	864	60.63	51.53	26.80	3.53	0.750	68.40	Carbon	28.55	1471.19	2000.64	3091.90	2000.64
South	U107-L106	865	43.70	37.14	29.60	3.34	0.750	79.86	Carbon	26.93	1000.39	1442.00	2228.55	1442.00
South	U108-L107	866	28.97	24.62	34.60	2.76	0.750	112.72	Carbon	20.92	514.97	955.91	1477.32	955.91
South	U109-L108	867	41.25	35.06	42.70	6.21	0.750	61.90	Carbon	29.36	1029.26	1361.25	2103.75	1361.25
South	U110-L109	868	52.38	44.52	57.30	7.70	0.750	66.96	Carbon	28.74	1279.26	1728.38	2671.13	1728.38
South	U110-L111	869	54.69	46.48	61.60	7.71	0.750	71.88	Carbon	28.09	1305.56	1804.69	2789.06	1804.69
South	U111-L112	870	48.75	41.44	49.30	6.14	0.750	72.21	Carbon	28.04	1161.94	1608.75	2486.25	1608.75
South	U112-L113	871	48.28	41.04	40.90	3.47	0.750	106.22	Carbon	22.27	913.83	1593.29	2462.36	1593.29
South	U113-L114	872	58.88	50.04	35.90	3.51	0.750	92.06	Carbon	24.94	1248.03	1942.89	3002.65	1942.89
South	U114-L115	873	65.88	55.99	33.20	3.57	0.750	83.70	Carbon	26.34	1474.68	2173.89	3359.65	2173.89
South	U115-L116	874	58.88	50.04	31.90	3.51	0.750	81.80	Carbon	26.63	1332.92	1942.89	3002.65	1942.89
South	U116-L117	875	60.63	51.53	31.40	3.53	0.750	80.14	Carbon	26.89	1385.70	2000.64	3091.90	2000.64
South	U117-L118	876	50.03	42.53	31.00	3.49	0.750	80.01	Carbon	26.91	1144.44	1651.04	2551.61	1651.04
South	U119-L118	877	48.28	41.04	30.20	3.47	0.750	78.43	Carbon	27.15	1114.15	1593.29	2462.36	1593.29
South	U120-L119	878	37.85	32.17	30.10	3.43	0.750	78.93	Carbon	27.07	870.97	1248.96	1930.21	1248.96
South	U121-L120	879	28.97	24.62	30.50	2.76	0.750	99.36	Carbon	23.61	581.31	955.91	1477.32	955.91
South	U122-L121	880	43.70	37.14	31.90	3.34	0.750	86.06	Carbon	25.95	964.01	1442.00	2228.55	1442.00
South	U123-L122	881	55.78	47.41	34.40	3.77	0.750	82.15	Carbon	26.58	1260.31	1840.79	2844.86	1840.79
South	U124-L123	882	66.28	56.34	38.70	3.98	0.750	87.62	Carbon	25.70	1447.77	2187.29	3380.36	2187.29
South	U125-L124	883	64.63	54.93	45.10	3.75	0.750	108.22	Carbon	21.86	1200.80	2132.64	3295.90	2132.64
South	U126-L125	884	64.63	54.93	52.90	3.75	0.750	126.94	Carbon	17.67	970.83	2132.64	3295.90	2132.64
North	U0-L1	885	43.70	37.14	33.20	3.34	0.750	89.57	Carbon	25.37	942.25	1442.00	2228.55	1442.00
North	U1-L2	886	43.70	37.14	29.20	3.34	0.750	78.78	Carbon	27.10	1006.43	1442.00	2228.55	1442.00
North	U2-L3	887	34.85	29.62	26.70	2.79	0.750	86.04	Carbon	25.96	768.95	1150.07	1777.38	1150.07
North	U3-L4	888	28.97	24.62	25.20	2.76	0.750	82.09	Carbon	26.59	654.69	955.91	1477.32	955.91
North	U4-L5	889	37.78	32.11	25.00	3.29	0.750	68.44	Carbon	28.54	916.67	1246.79	1926.86	1246.79
North	U6-L5	890	43.70	37.14	25.00	3.34	0.750	67.45	Carbon	28.67	1064.97	1442.00	2228.55	1442.00
North	U7-L6	891	57.03	48.48	25.30	3.56	0.750	63.96	Carbon	29.11	1411.07	1882.04	2908.61	1882.04
North	U8-L7	892	55.28	46.99	27.40	3.54	0.750	69.59	Carbon	28.39	1334.18	1824.29	2819.36	1824.29
North	U9-L8	893	46.63	39.63	31.00	3.36	0.750	83.13	Carbon	26.43	1047.30	1538.64	2377.90	1538.64
North	U10-L9	894	37.78	32.11	36.60	3.29	0.750	100.20	Carbon	23.45	753.06	1246.79	1926.86	1246.79
North	U10-L11	895	37.78	32.11	36.30	3.29	0.750	99.38	Carbon	23.61	758.07	1246.79	1926.86	1246.79
North	U11-L12	896	37.78	32.11	30.70	3.29	0.750	84.05	Carbon	26.28	843.98	1246.79	1926.86	1246.79
North	U12-L13	897	39.78	33.82	27.50	3.35	0.750	73.84	Carbon	27.81	940.56	1312.90	2029.02	1312.90
North	U13-L14	898	34.85	29.62	25.60	2.79	0.750	82.50	Carbon	26.53	785.78	1150.07	1777.38	1150.07
North	U14-L15	899	28.97	24.62	25.20	2.76	0.750	82.09	Carbon	26.59	654.69	955.91	1477.32	955.91
North	U16-L15	900	28.97	24.62	25.40	2.76	0.750	82.75	Carbon	26.49	652.17	955.91	1477.32	955.91
North	U17-L16	901	34.85	29.62	26.00	2.79	0.750	83.79	Carbon	26.32	779.74	1150.07	1777.38	1150.07

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U18-L17	902	36.38	30.92	28.60	3.35	0.750	76.84	Carbon	27.38	846.72	1200.46	1855.25	1200.46
North	U19-L18	903	37.78	32.11	33.30	3.29	0.750	91.17	Carbon	25.09	805.88	1246.79	1926.86	1246.79
North	U20-L19	904	48.28	41.04	41.30	3.47	0.750	107.26	Carbon	22.06	905.17	1593.29	2462.36	1593.29
North	U20-L21	905	37.78	32.11	41.00	3.29	0.750	112.25	Carbon	21.02	674.88	1246.79	1926.86	1246.79
North	U21-L22	906	31.93	27.14	33.10	2.78	0.750	107.14	Carbon	22.08	599.22	1053.55	1628.22	1053.55
North	U22-L23	907	37.78	32.11	28.40	3.29	0.750	77.75	Carbon	27.25	875.10	1246.79	1926.86	1246.79
North	U23-L24	908	37.78	32.11	26.10	3.29	0.750	71.46	Carbon	28.14	903.80	1246.79	1926.86	1246.79
North	U24-L25	909	28.97	24.62	25.80	2.76	0.750	84.05	Carbon	26.28	647.08	955.91	1477.32	955.91
North	U26-L25	910	28.97	24.62	26.00	2.76	0.750	84.70	Carbon	26.18	644.51	955.91	1477.32	955.91
North	U27-L26	911	28.97	24.62	26.90	2.76	0.750	87.63	Carbon	25.70	632.67	955.91	1477.32	955.91
North	U28-L27	912	31.93	27.14	30.00	2.78	0.750	97.11	Carbon	24.03	652.12	1053.55	1628.22	1053.55
North	U29-L28	913	23.66	20.11	35.80	3.21	0.750	100.37	Carbon	23.42	470.87	780.62	1206.42	780.62
North	U30-L29	914	28.97	24.62	45.80	2.76	0.750	149.20	Carbon	12.86	316.57	955.91	1477.32	955.91
North	U30-L31	915	37.78	32.11	45.50	3.29	0.750	124.57	Carbon	18.24	585.76	1246.79	1926.86	1246.79
North	U31-L32	916	46.63	39.63	35.50	3.36	0.750	95.20	Carbon	24.38	966.17	1538.64	2377.90	1538.64
North	U32-L33	917	45.47	38.65	29.80	3.57	0.750	75.14	Carbon	27.63	1067.94	1500.62	2319.14	1500.62
North	U33-L34	918	43.70	37.14	27.00	3.34	0.750	72.84	Carbon	27.95	1038.23	1442.00	2228.55	1442.00
North	U34-L35	919	28.97	24.62	26.50	2.76	0.750	86.33	Carbon	25.91	637.98	955.91	1477.32	955.91
North	U36-L35	920	28.97	24.62	26.70	2.76	0.750	86.98	Carbon	25.80	635.34	955.91	1477.32	955.91
North	U37-L36	921	43.70	37.14	28.10	3.34	0.750	75.81	Carbon	27.53	1022.64	1442.00	2228.55	1442.00
North	U38-L37	922	44.42	37.75	31.60	3.70	0.750	76.86	Carbon	27.38	1033.72	1465.70	2265.17	1465.70
North	U39-L38	923	43.70	37.14	40.00	3.34	0.750	107.92	Carbon	21.92	814.24	1442.00	2228.55	1442.00
North	U40-L39	924	37.78	32.11	53.10	3.29	0.750	145.38	Carbon	13.54	434.92	1246.79	1926.86	1246.79
North	U40-L41	925	20.47	17.40	52.80	2.92	0.750	162.93	Carbon	10.78	187.58	675.44	1043.87	675.44
North	U41-L42	926	29.23	24.85	39.70	3.05	0.750	117.22	Carbon	19.93	495.22	964.73	1490.94	964.73
North	U42-L43	927	32.17	27.34	31.90	2.44	0.750	117.57	Carbon	19.85	542.78	1061.45	1640.42	1061.45
North	U43-L44	928	34.85	29.62	28.00	2.79	0.750	90.23	Carbon	25.26	748.14	1150.07	1777.38	1150.07
North	U44-L45	929	21.57	18.33	27.10	1.96	0.750	124.52	Carbon	18.25	334.61	711.73	1099.95	711.73
North	U46-L45	930	21.57	18.33	27.40	1.96	0.750	125.89	Carbon	17.92	328.60	711.73	1099.95	711.73
North	U47-L46	931	34.85	29.62	28.40	2.79	0.750	91.52	Carbon	25.03	741.53	1150.07	1777.38	1150.07
North	U48-L47	932	37.78	32.11	33.60	3.29	0.750	91.99	Carbon	24.95	801.28	1246.79	1926.86	1246.79
North	U49-L48	933	29.23	24.85	42.40	3.05	0.750	125.20	Carbon	18.09	449.54	964.73	1490.94	964.73
North	U50-L49	934	37.78	32.11	55.90	3.29	0.750	153.04	Carbon	12.22	392.44	1246.79	1926.86	1246.79
North	U50-L51	935	53.53	45.50	57.90	2.76	0.750	188.59	Carbon	8.05	366.17	1766.54	2730.11	1766.54
North	U51-L52	936	53.53	45.50	44.60	3.53	0.750	113.84	Carbon	20.67	940.65	1766.54	2730.11	1766.54
North	U52-L53	937	47.13	40.06	35.90	2.92	0.750	110.69	Carbon	21.35	855.21	1555.42	2403.83	1555.42
North	U53-L54	938	55.38	47.07	31.10	3.47	0.750	80.59	Carbon	26.82	1262.53	1827.39	2824.15	1827.39
North	U54-L55	939	55.28	46.99	28.20	3.54	0.750	71.62	Carbon	28.12	1321.35	1824.29	2819.36	1824.29
North	U55-L56	940	28.97	24.62	27.50	2.76	0.750	89.59	Carbon	25.37	624.56	955.91	1477.32	955.91
North	U57-L56	941	28.92	24.58	27.70	2.70	0.750	92.41	Carbon	24.88	611.42	954.20	1474.67	954.20
North	U58-L57	942	50.91	43.27	28.40	3.50	0.750	73.08	Carbon	27.92	1208.09	1679.92	2596.24	1679.92
North	U59-L58	943	58.34	49.59	31.40	3.66	0.750	77.18	Carbon	27.33	1355.44	1925.16	2975.24	1925.16
North	U60-L59	944	62.38	53.02	36.20	3.54	0.750	91.99	Carbon	24.95	1322.85	2058.39	3181.15	2058.39
North	U61-L60	945	60.63	51.53	44.90	3.53	0.750	114.60	Carbon	20.51	1056.79	2000.64	3091.90	2000.64
North	U62-L61	946	48.28	41.04	59.20	3.47	0.750	153.75	Carbon	12.11	496.89	1593.29	2462.36	1593.29
North	U62-L63	947	28.97	24.62	59.10	2.76	0.750	192.53	Carbon	7.72	190.12	955.91	1477.32	955.91
North	U63-L64	948	31.93	27.14	45.80	2.78	0.750	148.25	Carbon	13.02	353.41	1053.55	1628.22	1053.55
North	U64-L65	949	32.04	27.24	36.70	2.91	0.750	113.44	Carbon	20.76	565.41	1057.40	1634.16	1057.40
North	U65-L66	950	37.78	32.11	31.50	3.29	0.750	86.24	Carbon	25.93	832.58	1246.79	1926.86	1246.79
North	U66-L67	951	31.93	27.14	28.50	2.78	0.750	92.25	Carbon	24.91	675.85	1053.55	1628.22	1053.55
North	U67-L68	952	25.39	21.58	28.00	1.98	0.750	127.56	Carbon	17.52	378.11	837.82	1294.81	837.82
North	U69-L68	953	21.57	18.33	28.20	1.96	0.750	129.57	Carbon	17.03	312.22	711.73	1099.95	711.73
North	U70-L69	954	31.93	27.14	29.00	2.78	0.750	93.87	Carbon	24.62	668.08	1053.55	1628.22	1053.55

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U71-L70	955	37.78	32.11	32.20	3.29	0.750	88.16	Carbon	25.61	822.37	1246.79	1926.86	1246.79
North	U72-L71	956	30.34	25.79	37.90	3.61	0.750	94.38	Carbon	24.53	632.62	1001.35	1547.54	1001.35
North	U73-L72	957	31.93	27.14	47.30	2.78	0.750	153.10	Carbon	12.21	331.35	1053.55	1628.22	1053.55
North	U74-L73	958	41.25	35.06	61.00	6.21	0.750	88.43	Carbon	25.56	896.24	1361.25	2103.75	1361.25
North	U74-L75	959	53.75	45.69	61.20	6.11	0.750	90.12	Carbon	25.28	1154.78	1773.75	2741.25	1773.75
North	U75-L76	960	58.03	49.33	48.10	4.06	0.750	106.71	Carbon	22.17	1093.50	1915.04	2959.61	1915.04
North	U76-L77	961	65.88	55.99	39.20	3.57	0.750	98.83	Carbon	23.71	1327.63	2173.89	3359.65	2173.89
North	U77-L78	962	67.63	57.48	33.70	3.58	0.750	84.65	Carbon	26.18	1505.09	2231.64	3448.90	2231.64
North	U78-L79	963	57.72	49.06	30.70	3.72	0.750	74.28	Carbon	27.75	1361.54	1904.79	2943.76	1904.79
North	U79-L80	964	37.58	31.94	29.10	3.59	0.750	72.92	Carbon	27.94	892.58	1240.16	1916.61	1240.16
North	U80-L81	965	34.85	29.62	28.50	2.79	0.750	91.85	Carbon	24.98	739.87	1150.07	1777.38	1150.07
North	U81-L82	966	42.95	36.50	28.30	3.36	0.750	75.70	Carbon	27.55	1005.69	1417.25	2190.30	1417.25
North	U83-L82	967	46.63	39.63	28.60	3.36	0.750	76.70	Carbon	27.40	1086.08	1538.64	2377.90	1538.64
North	U84-L83	968	69.44	59.02	29.00	3.65	0.750	71.50	Carbon	28.14	1660.73	2291.50	3541.41	2291.50
North	U85-L84	969	66.22	56.29	30.00	3.62	0.750	74.58	Carbon	27.71	1559.73	2185.30	3377.29	2185.30
North	U86-L85	970	74.63	63.43	31.80	3.88	0.750	73.80	Carbon	27.82	1764.67	2462.64	3805.90	2462.64
North	U87-L86	971	68.75	58.44	35.10	3.61	0.750	87.47	Carbon	25.72	1503.13	2268.76	3506.27	2268.76
North	U88-L87	972	54.16	46.03	40.80	4.01	0.750	91.68	Carbon	25.00	1151.04	1787.17	2761.99	1787.17
North	U89-L88	973	51.25	43.56	50.20	6.13	0.750	73.73	Carbon	27.83	1212.31	1691.25	2613.75	1691.25
North	U90-L89	974	61.75	52.49	63.50	6.96	0.750	82.08	Carbon	26.59	1395.71	2037.75	3149.25	2037.75
North	U90-L91	975	53.75	45.69	60.40	6.90	0.750	78.77	Carbon	27.10	1238.02	1773.75	2741.25	1773.75
North	U91-L92	976	39.57	33.63	46.50	6.22	0.750	67.28	Carbon	28.69	965.13	1305.82	2018.09	1305.82
North	U92-L93	977	37.03	31.48	37.30	3.32	0.750	101.11	Carbon	23.28	732.67	1222.04	1888.61	1222.04
North	U93-L94	978	40.72	34.61	31.30	3.31	0.750	85.03	Carbon	26.12	904.22	1343.83	2076.83	1343.83
North	U94-L95	979	60.63	51.53	28.30	3.53	0.750	72.23	Carbon	28.04	1444.80	2000.64	3091.90	2000.64
North	U95-L96	980	71.13	60.46	27.00	3.61	0.750	67.37	Carbon	28.68	1734.05	2347.14	3627.40	2347.14
North	U96-L97	981	64.03	54.43	26.50	3.62	0.750	65.96	Carbon	28.86	1570.81	2113.04	3265.61	2113.04
North	U97-L98	982	47.41	40.30	26.20	3.45	0.750	68.27	Carbon	28.57	1151.10	1564.42	2417.74	1564.42
North	U98-L99	983	34.85	29.62	26.00	2.79	0.750	83.79	Carbon	26.32	779.74	1150.07	1777.38	1150.07
North	U99-L100	984	28.97	24.62	26.00	2.76	0.750	84.70	Carbon	26.18	644.51	955.91	1477.32	955.91
North	U101-L100	985	28.97	24.62	25.90	2.76	0.750	84.37	Carbon	26.23	645.80	955.91	1477.32	955.91
North	U102-L101	986	31.93	27.14	25.80	2.78	0.750	83.51	Carbon	26.37	715.50	1053.55	1628.22	1053.55
North	U103-L102	987	48.28	41.04	26.00	3.47	0.750	67.53	Carbon	28.66	1176.30	1593.29	2462.36	1593.29
North	U104-L103	988	64.03	54.43	26.10	3.62	0.750	64.97	Carbon	28.99	1577.56	2113.04	3265.61	2113.04
North	U105-L104	989	71.70	60.94	26.40	3.63	0.750	65.49	Silicon	37.41	2280.03	3226.37	4265.97	3226.37
North	U106-L105	990	60.63	51.53	27.40	3.53	0.750	69.93	Silicon	36.35	1873.14	2728.15	3607.21	2728.15
North	U107-L106	991	43.70	37.14	30.40	3.34	0.750	82.02	Silicon	33.10	1229.48	1966.37	2599.97	1966.37
North	U108-L107	992	28.97	24.62	35.60	2.76	0.750	115.97	Silicon	21.28	523.96	1303.52	1723.54	1303.52
North	U109-L108	993	41.25	35.06	43.80	6.21	0.750	63.50	Silicon	37.87	1327.76	1856.25	2454.38	1856.25
North	U110-L109	994	53.25	45.26	58.50	7.70	0.750	68.37	Silicon	36.73	1662.57	2396.25	3168.38	2396.25
North	U110-L111	995	54.69	46.48	63.50	7.71	0.750	74.09	Silicon	35.29	1640.43	2460.94	3253.91	2460.94
North	U111-L112	996	48.75	41.44	50.40	6.14	0.750	73.82	Silicon	35.36	1465.33	2193.75	2900.63	2193.75
North	U112-L113	997	48.28	41.04	42.00	3.47	0.750	109.08	Silicon	23.95	983.07	2172.67	2872.76	2172.67
North	U113-L114	998	58.88	50.04	36.90	3.51	0.750	94.62	Silicon	29.16	1459.43	2649.40	3503.09	2649.40
North	U114-L115	999	65.88	55.99	34.20	3.57	0.750	86.22	Silicon	31.85	1783.48	2964.40	3919.59	2964.40
North	U115-L116	1000	58.88	50.04	33.00	3.51	0.750	84.62	Silicon	32.33	1618.11	2649.40	3503.09	2649.40
North	U116-L117	1001	60.63	51.53	32.50	3.53	0.750	82.95	Silicon	32.83	1691.74	2728.15	3607.21	2728.15
North	U117-L118	1002	50.03	42.53	32.10	3.49	0.750	82.85	Silicon	32.86	1397.41	2251.42	2976.88	2251.42
North	U119-L118	1003	53.53	45.50	31.30	3.53	0.750	79.89	Silicon	33.71	1533.89	2408.92	3185.13	2408.92
North	U120-L119	1004	40.72	34.61	31.20	3.31	0.750	84.76	Silicon	32.29	1117.82	1832.50	2422.97	1832.50
North	U121-L120	1005	28.97	24.62	31.70	2.76	0.750	103.27	Silicon	26.14	643.55	1303.52	1723.54	1303.52
North	U122-L121	1006	43.70	37.14	33.10	3.34	0.750	89.30	Silicon	30.89	1147.49	1966.37	2599.97	1966.37
North	U123-L122	1007	55.78	47.41	35.70	3.77	0.750	85.25	Silicon	32.14	1524.10	2510.17	3319.01	2510.17

Silicon Steel &			Carbon Steel &		
F_Y	45	ksi	F_Y	33	ksi
F_U	70	ksi	F_U	60	ksi
E	29000	ksi	E	29000	ksi
$\sqrt{\frac{2\pi^2 E}{F_Y}}$	112.79		$\sqrt{\frac{2\pi^2 E}{F_Y}}$	131.71	

& From Original Design Plans and MCEEB 6.6.2.1

Truss	Member	Rating ID	As-Inspected Capacities											
			A_{GROSS} (in^2)	A_{NET} (in^2)	Length (ft)	Min $r_{X,Y}$ (in)	K (AASHTO Appendix C Table C-1)	K*L $r_{X,Y}$	Type of Steel	Member Capacity				
										Compression		Tension (kips)		
										F_{CR} (ksi)	Capacity (kips)	Yield	Fract.	Control
North	U124-L123	1008	67.78	57.61	40.10	3.93	0.750	91.77	Silicon	30.10	1734.42	3050.17	4033.01	3050.17
North	U125-L124	1009	64.63	54.93	46.60	3.75	0.750	111.82	Silicon	22.88	1257.07	2908.15	3845.21	2908.15
North	U126-L125	1010	64.63	54.93	57.30	3.75	0.750	137.49	Silicon	15.14	831.66	2908.15	3845.21	2908.15

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	L0-L1	1	4.99	8.31	5.90	9.84	4.61	7.68	5.83	9.71	11.81	19.68	13.98	23.30	7.73	12.88	9.15	15.25	6.60	11.00	7.82	13.03	4.66	7.77	5.52	9.20	3.57	5.94	4.22	7.04	4.53	7.55	5.36	8.94
South	L1-L2	2	9.30	15.50	3.09	5.14	14.93	24.89	3.44	5.73	21.47	35.78	6.79	11.31	14.14	23.57	4.55	7.59	12.17	20.29	3.93	6.55	9.35	15.58	3.20	5.34	7.79	12.98	2.54	4.23	11.47	19.11	3.24	5.39
South	L2-L3	3	16.96	28.26	1.95	3.26	25.03	41.71	2.05	3.41	36.87	61.44	4.32	7.20	24.71	41.19	2.88	4.80	21.43	35.72	2.49	4.15	18.24	30.40	2.03	3.38	17.74	29.57	1.69	2.82	20.14	33.56	2.01	3.35
South	L3-L4	4	27.38	45.63	1.95	3.26	39.41	65.68	1.98	3.31	58.21	97.02	4.33	7.21	39.55	65.91	2.87	4.78	34.68	57.80	2.49	4.15	30.53	50.89	2.04	3.40	28.02	46.69	1.74	2.89	32.19	53.65	1.99	3.31
South	L4-L5	5	36.71	61.19	1.92	3.20	52.76	87.94	1.96	3.26	78.11	130.18	4.29	7.14	53.05	88.42	2.86	4.76	47.27	78.78	2.46	4.10	41.45	69.08	2.01	3.36	37.50	62.49	1.73	2.89	43.43	72.38	1.98	3.30
South	L5-L6	6	49.65	82.75	1.61	2.68	70.23	117.05	1.70	2.83	105.95	176.59	3.65	6.08	71.88	119.80	2.42	4.03	63.96	106.60	2.10	3.50	57.40	95.67	1.69	2.82	49.79	82.98	1.41	2.34	58.33	97.22	1.63	2.72
South	L6-L7	7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L7-L8	8	1.73	2.88	81.66	136.10	1.65	2.75	100.84	168.07	3.95	6.58	171.07	285.12	2.61	4.36	118.01	196.68	2.26	3.77	105.33	175.56	1.77	2.96	95.84	159.74	1.52	2.53	69.14	115.24	1.65	2.74	79.59	132.66
South	L8-L9	9	1.62	2.70	98.22	163.69	1.42	2.36	102.88	171.47	3.70	6.17	232.08	386.80	2.45	4.08	151.92	253.21	2.12	3.54	129.94	216.57	1.65	2.74	93.29	155.48	1.36	2.26	70.28	117.14	1.52	2.53	77.55	129.25
South	L9-L10	10	1.84	3.06	75.10	125.17	1.45	2.41	77.95	129.92	4.19	6.99	177.23	295.38	2.78	4.63	116.20	193.67	2.39	3.99	99.23	165.38	1.82	3.04	71.55	119.25	1.47	2.44	53.80	89.66	1.62	2.70	59.39	98.98
South	L10-L11	11	1.82	3.04	74.94	124.91	1.44	2.39	77.79	129.65	4.16	6.94	176.86	294.77	2.76	4.59	115.96	193.27	2.37	3.96	99.02	165.03	1.81	3.02	71.40	119.01	1.45	2.42	53.68	89.47	1.61	2.68	59.26	98.77
South	L11-L12	12	1.80	3.00	16.16	26.93	1.78	2.97	17.80	29.66	4.11	6.85	35.61	59.35	2.72	4.53	23.91	39.86	2.34	3.91	20.65	34.41	1.78	2.97	16.48	27.46	1.56	2.60	14.11	23.52	1.76	2.93	15.41	25.68
South	L12-L13	13	1.78	2.97	6.82	11.37	2.25	3.75	6.65	11.08	4.08	6.80	15.32	25.53	2.70	4.49	10.20	17.01	2.32	3.87	8.78	14.63	1.76	2.93	6.85	11.42	1.54	2.57	5.84	9.74	1.94	3.23	6.33	10.55
South	L13-L14	14	2.09	3.48	4.04	6.74	3.46	5.77	3.66	6.10	4.78	7.96	9.14	15.24	3.16	5.27	6.05	10.08	2.73	4.55	5.22	8.69	2.07	3.44	4.02	6.70	1.81	3.01	3.43	5.72	2.48	4.13	3.65	6.09
South	L14-L15	15	2.57	4.28	2.94	4.90	5.46	9.09	2.52	4.20	5.86	9.77	6.68	11.14	3.88	6.47	4.40	7.34	3.35	5.58	3.80	6.33	2.56	4.26	2.94	4.90	2.24	3.73	2.44	4.07	2.98	4.96	2.65	4.41
South	L15-L16	16	2.92	4.86	2.84	4.73	4.38	7.30	2.42	4.03	6.55	10.92	6.46	10.77	4.35	7.25	4.27	7.12	3.75	6.25	3.68	6.13	2.95	4.91	2.84	4.73	2.69	4.48	2.34	3.90	2.97	4.96	2.53	4.22
South	L16-L17	17	2.19	3.65	3.37	5.62	3.29	5.48	3.15	5.25	4.93	8.21	7.72	12.86	3.27	5.45	5.09	8.48	2.82	4.70	4.38	7.30	2.21	3.69	3.35	5.58	2.02	3.36	2.79	4.66	2.23	3.72	3.00	5.01
South	L17-L18	18	1.67	2.79	4.74	7.90	2.02	3.37	4.99	8.32	3.76	6.27	10.79	17.98	2.50	4.17	7.12	11.87	2.15	3.59	6.14	10.24	1.69	2.82	4.77	7.94	1.43	2.38	3.95	6.58	1.60	2.66	4.30	7.17
South	L18-L19	19	1.58	2.63	7.22	12.03	1.34	2.23	7.53	12.55	3.54	5.91	16.77	27.96	2.35	3.92	11.05	18.42	2.03	3.38	9.49	15.82	1.58	2.64	6.98	11.63	1.15	1.92	5.33	8.88	1.27	2.12	6.05	10.08
South	L19-L20	20	1.48	2.47	8.45	14.09	1.02	1.71	9.96	16.60	3.40	5.66	19.75	32.92	2.24	3.74	12.97	21.62	1.92	3.21	11.11	18.51	1.45	2.42	8.12	13.53	1.01	1.69	6.11	10.18	1.12	1.87	7.42	12.37
South	L20-L21	21	1.30	2.16	42.87	71.45	1.24	2.06	85.13	141.88	2.91	4.85	96.57	160.95	1.93	3.22	64.18	106.97	1.67	2.78	55.23	92.04	1.31	2.18	42.84	71.40	1.13	1.88	32.84	54.74	1.23	2.06	43.42	72.36
South	L21-L22	22	1.59	2.65	52.87	88.12	1.63	2.72	102.81	171.34	3.53	5.89	118.99	198.32	2.37	3.95	79.37	132.28	2.03	3.39	68.16	113.60	1.62	2.70	53.25	88.75	1.40	2.34	39.39	65.65	1.62	2.70	52.22	87.03
South	L22-L23	23	2.54	4.23	67.10	111.84	2.84	4.74	141.52	235.86	5.61	9.34	152.06	253.44	3.76	6.27	101.02	168.37	3.30	5.49	87.68	146.14	2.67	4.44	69.10	115.16	2.26	3.77	49.60	82.66	2.63	4.39	67.01	111.68
South	L23-L24	24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L24-L25	25	55.93	93.22	2.50	4.17	184.60	307.67	3.05	5.09	118.19	196.98	5.35	8.92	80.51	134.18	3.63	6.05	69.98	116.64	3.17	5.28	61.60	102.67	2.76	4.61	48.87	81.44	2.39	3.99	59.15	98.58	2.76	4.60
South	L25-L26	26	47.45	79.09	1.55	2.59	122.68	204.46	1.87	3.12	101.89	169.81	3.36	5.59	68.65	114.42	2.26	3.77	59.46	99.09	1.96	3.26	54.95	91.59	1.75	2.91	43.21	72.02	1.55	2.58	52.06	86.76	1.75	2.92
South	L26-L27	27	62.14	103.56	3.40	5.67	153.84	256.40	4.28	7.13	134.83	224.72	7.51	12.51	90.53	150.88	5.02	8.36	79.72	132.86	4.39	7.32	74.42	124.03	3.90	6.49	68.77	114.62	3.32	5.54	81.01	135.02	3.93	6.55
South	L27-L28	28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L28-L29	29	3.01	5.02	61.63	102.72	3.42	5.70	128.01	213.34	6.77	11.28	135.48	225.80	4.50	7.50	90.66	151.10	3.92	6.53	79.50	132.51	3.26	5.44	71.02	118.36	2.77	4.62	64.76	107.94	3.29	5.48	83.18	138.63
South	L29-L30	30	1.89	3.15	48.46	80.76	1.88	3.14	86.97	144.96	4.24	7.06	105.55	175.91	2.82	4.69	70.82	118.03	2.45	4.09	62.04	103.41	1.98	3.30	55.22	92.03	1.67	2.79	44.33	73.88	1.99	3.32	59.47	99.12
South	L30-L31	31	2.12	3.53	50.79	84.65	2.11	3.52	91.16	151.93	4.75	7.91	110.63	184.39	3.16	5.26	74.21	123.69	2.75	4.58	65.02	108.37	2.22	3.70	57.87	96.46	1.87	3.12	46.46	77.43	2.23	3.72	62.34	103.89
South	L31-L32	32	2.44	4.07	7.97	13.29	3.54	5.90	8.31	13.85	5.49	9.16	17.74	29.57	3.65	6.09	11.88	19.80	3.18	5.30	10.30	17.17	2.55	4.25	8.14	13.57	2.23	3.72	6.82	11.37	2.55	4.25	7.50	12.51
South	L32-L33	33	3.00	5.00	2.85	4.75	4.82	8.03	2.73	4.55	6.74	11.24	6.41	10.69	4.48	7.47	4.28	7.13	3.90	6.50	3.67	6.12	3.12	5.21	2.85	4.74	2.73	4.55	2.42	4.03	3.11	5.18	2.61	4.35
South	L33-L34	34	4.56	7.60	1.95	3.25	7.29	12.14	1.76	2.94	10.26	17.10	4.42	7.36	6.82	11.37	2.93	4.88	5.93	9.89	2.52	4.20	4.75	7.91	1.94	3.23	4.13	6.89	1.65	2.75	4.71	7.84	1.76	2.93
South	L34-L35	35	7.58	12.63	2.47	4.12	11.82	19.71	2.12	3.53	17.05	28.41	5.61	9.35	11.33	18.89	3.70	6.16	9.85	16.42	3.19	5.32	7.87	13.12	2.46	4.10	6.84	11.40	2.05	3.42	7.79	12.99	2.22	3.71
South	L35-L36	36	8.45	14.08	2.83	4.71	11.45	19.08	2.42	4.04	18.90	31.50	6.43	10.71	12.63	21.05	4.26	7.09	10.86	18.09	3.66	6.10	8.46	14.10	2.82	4.70	7.42	12.36	2.34	3.89	8.21	13.68	2.53	4.21
South	L36-L37	37	4.75	7.92	2.15	3.58	6.39	10.65	1.99	3.32	10.63	17.72	4.91	8.18	7.10	11.84	3.25	5.41	6.11	10.18	2.79	4.65	4.76	7.93	2.13	3.55	4.16	6.93	1.77	2.95	4.61	7.68	1.91	3.18
South	L37-L38	38	3.43	5.71	3.30	5.51	3.92	6.53	3.42	5.70	7.67	12.78	7.53	12.54	5.12	8.54	4.97	8.29	4.40	7.34	4.28	7.14	3.43	5.72	3.31	5.52	2.78	4.63	2.75	4.58	3.06	5.11	3.01	5.02
South	L38-L39	39	2.40	4.00	5.47	9.12	1.85	3.08	5.14	8.57	5.44	9.07	12.77	21.29	3.62	6.03	8.41	14.01	3.11	5.18	7.22	12.03	2.37	3.96	5.27	8.78	1.65	2.76	3.92	6.54	1.82	3.04	4.29	7.15
South	L39-L40	40	1.84	3.06	7.21	12.01	1.22	2.03	7.14	11.91	4.25	7.09	16.93	28.22	2.81	4.68	11.10	18.50	2.40	4.01	9.51	15.85	1.77	2.95	6.91	11.52	1.19	1.99	5.05	8.42	1.34	2.24	5.70	9.50
South	L40-L41	41	2.09	3.48	50.58	84.30	2.03	3.38	63.33	105.54	4.69	7.81	116.84	194.73	3.13	5.21	77.03	128.38	2.69	4.48	66.33	110.56	2.09	3.48	49.42	82.37	1.76	2.93	33.68	56.13	1.97	3.28	44.94	74.90
South	L41-L42	42	4.09	6.82	81.80	136.34	4.33	7.21	106.06	176.77	9.19	15.32	190.57	317.62	6.13	10.22	125.07	208.45	5.35	8.92	107.58	179.30	4.17	6.96	80.59	134.32	3.46	5.76	54.27	90.46	4.01	6.69	72.79	121.31
South	L42-L43	43	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L43-L44	44	75.54	125.89	3.56	5.94	204.99	341.65	4.03	6.72	155.60	259.33	7.81	13.01	105.98	176.64	5.25	8.76	93.02	155.03	4.59	7.65	89.63	149.38	3.78	6.30	67.76	112.94	3.27	5.44	86.37	143.96	3.74	6.23
South	L44-L45	45	59.29	98.82	1.92	3.19	181.26	302.11	2.02	3.37	126.78	211.30	4.19	6.98	84.89	141.48	2.81	4.69	74.27	123.78	2.43	4.05	65.97	109.94	2.03	3.39	51.80	86.33	1.80	3.00	64.17	106.95	2.03	3.38
South	L45-L46	46	65.44	109.06	1.96	3.27	198.13	330.22	2.06	3.44	145.92	243.20	4.32	7.20	97.09	161.82	2.89	4.81	84.68	141.14	2.51	4.19	70.97	118.28	2.10	3.50	54.45	90.75	1.84	3.06	63.85	106.41	2.09	3.48
South	L46-L47	47	107.44	179.07	3.96	6.60	313.70	522.83	4.28	7.14	235.69	392.81	8.85	14.75	157.65	262.75	5.89	9.82	138.31	230.51	5.14	8.56	120.91	201.52	4.31	7.19	85.92	143.21	3.66	6.09	101.57	169.29	4.25	7.09
South	L47-L48	48	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L48-L49	49	3.83	6.38	103.11	171.85	3.63	6.05	154.49	257.48	8.67	14.45	236.21	393.68	5.72	9.53	155.90	259.84	4.94	8.23	134.66	224.44	3.99	6.66	110.20	183.67	3.30	5.50	68.52	114.19	3.79	6.31	86.60	144.33
South	L49-L50	50	2.38	3.96	83.99	139.98	1.98	3.31	91.69	152.82	5.41	9.01	189.98	316.64	3.55	5.91	125.86	209.77	3.06	5.11	109.21	182.01	2.43	4.06	91.22	152.03	1.97	3.28	46.55	77.58	2.23	3.72	55.87	93.12
South	L50-L51	51	2.66	4.43	89.58	149.29	2.15	3.58	94.56	157.60	6.05	10.09	202.58	337.63	3.97	6.62	134.25	223.75	3.43	5.72	116.47	194.11	2.72	4.54	97.28	162.14	2.20	3.67	49.66	82.76	2.50	4.16	59.60	99.33
South	L51-L52	52	3.48	5.80	11.86	19.76	3.95	6.59	10.94	18.23	7.93	13.21	26.85	44.75	5.20	8.67	17.71	29.52	4.49	7.49	15.30	25.49	3.55	5.92	12.19	20.31	3.02	5.04	10.00	16.66	3.39	5.64	11.21	18.68
South	L52-L53	53	4.22	7.03	4.40	7.34	5.19	8.64	3.70	6.16	9.63	16.06	10.05	16.75	6.32	10.53	6.62	11.03	5.46	9.09	5.70	9.50	4.29	7.15	4.39	7.32	3.63	6.05	3.67	6.12	4.08	6.79	3.99	6.66
South	L53-L54	54	5.43	9.05	2.41	4.02	6.75	11.26	1.90	3.17	12.40	20.67	5.53	9.21	8.14	13.56	3.63	6.05	7.02	11.71	3.13	5.21	5.51	9.19	2.37	3.96	4.65	7.75	2.02	3.37	5.23	8.72	2.14	3.57
South	L54-L55	55	7.35	12.25	2.04	3.40	9.08	15.14	1.54	2.57	16.83	28.05	4.69	7.82	11.03	18.39	3.08	5.14	9.52	15.87	2.65	4.42	7.43	12.38	2.01	3.35	6.29	10.48	1.64	2.74	7.06	11.77	1.80	3.00
South	L55-L56	56	12.18	20.31	3.76	6.27	15.19	25.32	2.71	4.52	27.96	46.59	8.67	14.45	18.30	30.50	5.69	9.48	15.78	26.30	4.89	8.14	12.24	20.39	3.72	6.20	10.48	17.46	2.97	4.94	11.69	19.48	3.22	5.37
South	L56-L57	57	9.20	15.34	3.64	6.07	12.21	20.35	2.60	4.33	21.16	35.26	8.39	13.98	13.87	23.11	5.51	9.18	11.94	19.91	4.73	7.88	9.16	15.26	3.58	5.97	8.13	13.55	2.84	4.74	8.95	14.92	3.08	5.13
South	L57-L58	58	5.34	8.91	2.52	4.19	7.02	11.70	1.90	3.17	12.28	20.47	5.77	9.62	8.05	13.41	3.79	6.32	6.93	11.55	3.26	5.43	5.31	8.86	2.48	4.13	4.74	7.90	1.98	3.31	5.22	8.69	2.12	3.53
South	L58-L59	59	3.46	5.77	2.83	4.72	4.19	6.99	2.39	3.98	7.95	13.26	6.55	10.91	5.21	8.69	4.29	7.14	4.49	7.48	3.69	6.15	3.44	5.73	2.78	4.63	2.99	4.99	2.23	3.72	3.29	5.48	2.37	3.95
South	L59-L60	60	3.05	5.09	5.41	9.02	2.45	4.09	4.25	7.08	7.01	11.69	12.44	20.73	4.60	7.66	8.16	13.60	3.96	6.60	7.02	11.71	3.03	5.06	5.23	8.72	2.12	3.53	3.71	6.19	2.40	4.00	4.10	6.84
South	L60-L61	61	2.76	4.60	8.12	13.54	1.65	2.75	5.95	9.91	6.40	10.66	19.09	31.82	4.19	6.99	12.48	20.79	3.60	6.00	10.69	17.81	2.68	4.47	7.74	12.90	1.74	2.90	5.23	8.72	1.96	3.26	5.73	9.55
South	L61-L62	62	2.23	3.72	9.40	15.67	1.19	1.98	7.27	12.12	5.23	8.71	22.16	36.94	3.42	5.70	14.47	24.12	2.93	4.89	12.39	20.64	2.14	3.56	8.93	14.88	1.36	2.27	6.02	10.04	1.52	2.53	6.73	11.21
South	L62-L63	63	1.61	2.68	47.60	79.34	1.44	2.39	58.20	97.00	3.70	6.17	110.62	184.37	2.42	4.04	72.09	120.15	2.09	3.48	62.13	103.55	1.60	2.67	46.86	78.10	1.34	2.24	31.42	52.37	1.47	2.44	39.45	65.76
South	L63-L64	64	1.59	2.65	51.17	85.28	1.53	2.55	60.29	100.48	3.65	6.09	118.24	197.07	2.40	3.99	77.63	129.38	2.06	3.44	66.88	111.46	1.60	2.67	50.43	84.06	1.35	2.25	33.50	55.84	1.48	2.47	39.71	66.19
South	L64-L65	65	3.80	6.33	73.82	123.04	3.95	6.59	85.95	143.25	8.74	14.57	170.19	283.65	5.77	9.62	112.38	187.29	4.96	8.27	96.28	160.47	3.91	6.52	72.48	120.80	3.22	5.36	47.43	79.05	3.76	6.26	56.95	94.92

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	L65-L66	66	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L66-L67	67	59.24	98.74	3.36	5.60	181.14	301.90	3.85	6.41	131.95	219.92	7.62	12.69	87.11	145.19	5.03	8.38	75.55	125.92	4.34	7.24	66.71	111.19	3.63	6.05	48.59	80.98	3.04	5.07	65.10	108.51	3.55	5.92
South	L67-L68	68	49.06	81.76	1.68	2.80	160.65	267.75	1.87	3.11	108.46	180.76	3.78	6.30	70.78	117.97	2.48	4.13	61.78	102.96	2.15	3.58	52.75	87.92	1.79	2.98	41.47	69.12	1.57	2.62	51.87	86.46	1.78	2.97
South	L68-L69	69	52.09	86.82	1.75	2.92	143.58	239.30	1.92	3.21	116.02	193.37	3.92	6.53	75.63	126.05	2.57	4.28	65.80	109.67	2.22	3.71	54.82	91.37	1.85	3.09	40.75	67.92	1.63	2.71	49.45	82.42	1.84	3.07
South	L69-L70	70	69.93	116.55	3.57	5.95	158.60	264.33	3.98	6.64	156.02	260.04	8.02	13.37	103.62	172.70	5.33	8.88	88.86	148.09	4.60	7.67	74.77	124.61	3.82	6.36	48.40	80.66	3.20	5.34	62.07	103.45	3.78	6.30
South	L70-L71	71	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L71-L72	72	3.62	6.04	96.18	160.30	3.63	6.05	166.69	277.81	8.25	13.75	219.21	365.35	5.45	9.09	145.09	241.82	4.72	7.87	124.88	208.13	3.75	6.24	98.91	164.85	3.03	5.05	58.13	96.88	3.49	5.81	74.67	124.46
South	L72-L73	73	2.59	4.32	76.55	127.59	2.37	3.95	130.11	216.85	5.92	9.86	173.74	289.57	3.89	6.49	114.16	190.27	3.35	5.58	98.71	164.52	2.62	4.37	80.39	133.98	2.15	3.58	49.56	82.60	2.41	4.01	61.68	102.80
South	L73-L74	74	1.90	3.17	69.15	115.25	1.54	2.56	86.13	143.55	4.36	7.27	156.53	260.88	2.85	4.75	103.23	172.06	2.46	4.09	89.19	148.65	1.89	3.15	72.22	120.37	1.50	2.50	37.89	63.16	1.62	2.70	44.58	74.31
South	L74-L75	75	1.99	3.32	70.22	117.03	1.61	2.69	87.48	145.81	4.58	7.63	158.94	264.89	2.99	4.99	104.83	174.71	2.58	4.30	90.57	150.94	1.99	3.31	73.34	122.23	1.58	2.63	38.48	64.14	1.70	2.83	45.28	75.46
South	L75-L76	76	2.06	3.43	13.25	22.08	2.24	3.73	9.97	16.62	4.73	7.88	30.62	51.03	3.09	5.16	20.14	33.56	2.66	4.44	17.31	28.85	2.04	3.40	13.13	21.88	1.80	3.00	9.40	15.67	1.96	3.27	10.33	17.22
South	L76-L77	77	2.72	4.53	5.28	8.81	3.66	6.10	3.68	6.14	6.24	10.41	12.31	20.51	4.09	6.81	8.06	13.43	3.52	5.86	6.92	11.53	2.69	4.49	5.14	8.57	2.33	3.89	3.76	6.27	2.57	4.28	4.16	6.93
South	L77-L78	78	3.47	5.78	2.84	4.73	4.54	7.56	1.89	3.15	7.99	13.32	6.63	11.06	5.23	8.72	4.34	7.23	4.50	7.50	3.72	6.20	3.42	5.71	2.73	4.55	2.95	4.92	2.05	3.41	3.24	5.41	2.18	3.63
South	L78-L79	79	5.28	8.80	2.83	4.72	6.77	11.29	1.82	3.03	12.17	20.28	6.61	11.02	7.96	13.27	4.32	7.20	6.85	11.41	3.71	6.18	5.20	8.67	2.71	4.52	4.45	7.42	1.99	3.31	4.90	8.16	2.15	3.58
South	L79-L80	80	6.23	10.38	2.49	4.15	7.72	12.87	1.55	2.58	14.39	23.99	5.82	9.70	9.42	15.70	3.81	6.35	8.09	13.49	3.27	5.44	6.10	10.17	2.38	3.97	5.23	8.71	1.72	2.87	5.72	9.54	1.87	3.12
South	L80-L81	81	7.34	12.24	2.81	4.69	8.84	14.74	1.70	2.84	17.03	28.39	6.56	10.94	11.15	18.59	4.30	7.16	9.58	15.96	3.68	6.14	7.15	11.91	2.70	4.49	6.15	10.25	1.93	3.22	6.67	11.11	2.08	3.47
South	L81-L82	82	7.17	11.96	2.93	4.88	8.29	13.81	1.73	2.88	16.70	27.84	6.83	11.39	10.93	18.22	4.47	7.45	9.38	15.63	3.83	6.38	6.90	11.51	2.81	4.69	5.90	9.83	1.99	3.32	6.29	10.49	2.16	3.60
South	L82-L83	83	4.98	8.30	3.37	5.62	5.61	9.35	1.98	3.29	11.61	19.36	7.87	13.12	7.60	12.66	5.15	8.58	6.51	10.86	4.41	7.36	4.79	7.99	3.23	5.39	4.09	6.82	2.28	3.79	4.37	7.28	2.47	4.12
South	L83-L84	84	3.34	5.56	3.26	5.43	3.73	6.22	1.96	3.27	7.78	12.97	7.60	12.66	5.09	8.48	4.97	8.28	4.36	7.27	4.26	7.10	3.21	5.35	3.12	5.20	2.74	4.57	2.22	3.70	2.93	4.88	2.40	4.00
South	L84-L85	85	2.49	4.14	4.26	7.11	2.76	4.60	2.67	4.45	5.80	9.66	9.97	16.61	3.79	6.32	6.52	10.87	3.25	5.42	5.59	9.32	2.39	3.99	4.05	6.76	2.04	3.40	2.85	4.75	2.18	3.63	3.11	5.19
South	L85-L86	86	2.20	3.67	6.50	10.83	2.15	3.59	4.45	7.41	5.14	8.57	15.21	25.34	3.36	5.60	9.95	16.59	2.88	4.80	8.52	14.21	2.12	3.54	6.19	10.32	1.74	2.90	4.40	7.33	1.87	3.12	4.78	7.97
South	L86-L87	87	2.10	3.50	10.01	16.68	1.68	2.79	7.05	11.76	4.90	8.17	23.39	38.98	3.20	5.34	15.30	25.51	2.75	4.58	13.11	21.85	2.02	3.37	9.59	15.99	1.46	2.43	6.43	10.71	1.59	2.66	7.14	11.89
South	L87-L88	88	2.03	3.38	14.46	24.10	1.33	2.22	9.58	15.97	4.73	7.88	34.00	56.67	3.09	5.15	22.20	37.01	2.65	4.42	19.02	31.70	1.95	3.25	13.68	22.80	1.27	2.11	8.04	13.40	1.40	2.34	9.10	15.16
South	L88-L89	89	2.66	4.44	19.51	32.52	1.46	2.44	12.66	21.09	6.21	10.34	46.14	76.89	4.06	6.77	30.14	50.23	3.48	5.80	25.77	42.96	2.56	4.26	18.24	30.40	1.52	2.53	10.00	16.67	1.68	2.80	11.46	19.10
South	L89-L90	90	3.06	5.10	22.01	36.69	1.49	2.48	15.21	25.36	7.20	12.00	52.12	86.86	4.71	7.86	34.05	56.76	4.03	6.72	29.10	48.50	2.89	4.82	20.50	34.17	1.64	2.73	11.24	18.73	1.84	3.07	13.14	21.90
South	L90-L91	91	3.68	6.14	93.54	155.91	2.34	3.90	159.28	265.47	8.58	14.29	215.34	358.90	5.61	9.36	141.47	235.78	4.81	8.02	121.97	203.29	3.55	5.92	92.17	153.62	2.46	4.11	66.31	110.52	2.78	4.64	86.25	143.74
South	L91-L92	92	3.05	5.08	107.62	179.36	2.04	3.41	187.17	311.95	7.09	11.82	248.53	414.22	4.64	7.74	163.02	271.70	3.98	6.64	140.63	234.38	2.94	4.91	105.55	175.92	2.12	3.53	66.16	110.27	2.37	3.95	84.87	141.44
South	L92-L93	93	1.88	3.14	97.84	163.06	1.34	2.23	171.17	285.28	4.39	7.31	228.52	380.87	2.87	4.78	148.67	247.78	2.46	4.11	127.86	213.10	1.83	3.04	94.67	157.78	1.37	2.28	56.02	93.37	1.53	2.55	71.21	118.68
South	L93-L94	94	1.62	2.70	88.12	146.87	1.22	2.04	168.29	280.48	3.76	6.27	205.58	342.63	2.46	4.10	134.11	223.51	2.11	3.52	115.33	192.21	1.58	2.63	86.03	143.38	1.22	2.04	50.56	84.26	1.38	2.30	65.65	109.42
South	L94-L95	95	1.01	1.69	71.34	118.90	0.82	1.37	148.36	247.26	2.35	3.92	166.12	276.87	1.54	2.57	109.04	181.73	1.33	2.21	93.32	155.54	1.01	1.68	70.85	118.08	0.78	1.31	42.93	71.55	0.88	1.47	53.65	89.41
South	L95-L96	96	2.92	4.86	96.86	161.44	2.57	4.28	214.75	357.92	6.76	11.27	223.66	372.76	4.47	7.46	148.20	247.00	3.82	6.37	126.28	210.47	2.91	4.86	95.82	159.71	2.30	3.84	58.05	96.75	2.55	4.25	71.16	118.60
South	L96-L97	97	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L97-L98	98	58.84	98.07	1.76	2.93	167.76	279.60	1.68	2.79	134.94	224.90	4.06	6.76	89.93	149.88	2.68	4.47	76.37	127.28	2.30	3.83	59.74	99.57	1.79	2.99	39.12	65.20	1.46	2.44	47.26	78.77	1.62	2.71
South	L98-L99	99	61.98	103.30	1.86	3.09	180.36	300.59	1.75	2.91	142.69	237.82	4.26	7.10	93.25	155.41	2.79	4.66	80.47	134.11	2.41	4.01	63.12	105.20	1.88	3.14	43.58	72.63	1.58	2.64	53.45	89.08	1.76	2.93
South	L99-L100	100	67.20	112.00	1.93	3.21	200.14	333.57	1.79	2.98	154.54	257.57	4.39	7.31	100.58	167.63	2.88	4.79	86.79	144.65	2.48	4.13	67.54	112.57	1.95	3.25	47.62	79.37	1.66	2.76	57.44	95.73	1.82	3.03
South	L100-L101	101	67.44	112.40	1.95	3.25	195.27	325.45	1.81	3.02	153.76	256.27	4.45	7.41	100.57	167.61	2.91	4.85	86.91	144.85	2.51	4.18	67.58	112.64	1.97	3.29	47.56	79.27	1.68	2.80	57.25	95.41	1.84	3.07
South	L101-L102	102	61.92	103.19	1.86	3.10	173.78	289.63	1.74	2.90	141.26	235.44	4.24	7.06	92.10	153.49	2.78	4.64	79.43	132.38	2.40	4.00	62.15	103.59	1.87	3.12	43.11	71.86	1.57	2.62	52.70	87.83	1.75	2.92
South	L102-L103	103	59.35	98.91	1.96	3.26	163.99	273.31	1.86	3.09	134.64	224.41	4.49	7.48	89.31	148.85	2.96	4.94	76.98	128.31	2.56	4.27	60.72	101.20	1.99	3.31	39.45	65.76	1.62	2.71	47.80	79.67	1.79	2.98
South	L103-L104	104	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L104-L105	105	1.54	2.57	85.69	142.81	1.34	2.23	218.81	364.68	3.57	5.95	199.23	332.05	2.35	3.91	131.10	218.51	2.02	3.37	112.83	188.04	1.54	2.56	84.33	140.55	1.20	2.00	47.72	79.53	1.33	2.22	59.43	99.06
South	L105-L106	106	1.63	2.72	86.03	143.38	1.30	2.17	185.04	308.41	3.76	6.27	199.39	332.32	2.48	4.13	130.71	217.84	2.13	3.54	111.83	186.39	1.61	2.68	83.80	139.66	1.24	2.07	47.26	78.77	1.40	2.33	60.48	100.80
South	L106-L107	107	1.78	2.96	90.56	150.94	1.32	2.21	179.59	299.32	4.11	6.86	210.82	351.37	2.69	4.49	137.29	228.82	2.31	3.86	117.89	196.49	1.73	2.88	88.31	147.18	1.33	2.21	49.69	82.82	1.50	2.50	62.69	104.48
South	L107-L108	108	1.82	3.03	90.59	150.99	1.27	2.12	159.56	265.93	4.22	7.03	208.67	347.78	2.76	4.59	136.42	227.37	2.37	3.94	117.51	195.86	1.75	2.92	88.89	148.15	1.30	2.17	49.18	81.97	1.46	2.43	61.42	102.36
South	L108-L109	109	1.79	2.98	90.13	150.22	1.19	1.98	141.26	235.43	4.16	6.93	207.51	345.85	2.72	4.53	136.06	226.77	2.33	3.89	116.92	194.86	1.73	2.88	88.40	147.33	1.23	2.05	48.97	81.62	1.38	2.31	60.99	101.65
South	L109-L110	110	1.97	3.28	78.03	130.06	1.24	2.07	133.31	222.18	4.58	7.64	179.96	299.94	3.00	5.00	117.98	196.64	2.57	4.29	101.28	168.80	1.90	3.17	76.66	127.77	1.31	2.19	46.70	77.83	1.48	2.47	58.06	96.77
South	L110-L111	111	4.16	6.93	18.99	31.65	2.18	3.63	14.15	23.58	9.75	16.24	45.41	75.69	6.37	10.62	29.63	49.38	5.46	9.10	25.26	42.09	3.96	6.60	17.36	28.93	2.23	3.72	9.68	16.13	2.51	4.19	10.77	17.94
South	L111-L112	112	3.12	5.21	15.37	25.62	1.87	3.12	10.84	18.06	7.27	12.12	36.76	61.27	4.76	7.94	23.99	39.98	4.08	6.80	20.45	34.08	3.00	5.01	14.04	23.41	1.83	3.04	7.95	13.25	2.02	3.37	8.81	14.69
South	L112-L113	113	2.92	4.87	12.81	21.36	2.04	3.40	8.30	13.83	6.80	11.34	29.97	49.94	4.45	7.42	19.63	32.71	3.82	6.36	16.80	28.01	2.81	4.68	11.72	19.53	1.87	3.11	6.76	11.27	2.07	3.45	7.47	12.45
South	L113-L114	114	2.68	4.46	8.34	13.90	2.22	3.71	5.67	9.46	6.23	10.39	19.56	32.60	4.08	6.80	12.82	21.37	3.50	5.83	10.96	18.26	2.58	4.29	7.90	13.16	1.89	3.16	5.37	8.96	2.07	3.45	5.90	9.84
South	L114-L115	115	2.80	4.66	5.49	9.15	2.79	4.65	3.61	6.01	6.51	10.85	12.89	21.48	4.26	7.10	8.44	14.07	3.65	6.09	7.21	12.02	2.69	4.48	5.17	8.62	2.24	3.73	3.66	6.10	2.40	4.01	3.89	6.48
South	L115-L116	116	2.95	4.92	3.35	5.58	3.30	5.50	2.03	3.39	6.88	11.46	7.87	13.11	4.50	7.51	5.15	8.58	3.86	6.44	4.40	7.34	2.84	4.74	3.15	5.26	2.43	4.05	2.20	3.66	2.59	4.31	2.36	3.94
South	L116-L117	117	4.28	7.14	2.78	4.64	4.32	7.20	1.47	2.45	9.98	16.63	6.51	10.85	6.53	10.89	4.27	7.11	5.60	9.33	3.65	6.09	4.12	6.87	2.65	4.41	3.52	5.87	1.88	3.13	3.75	6.26	2.00	3.34
South	L117-L118	118	5.92	9.87	2.67	4.46	6.00	10.00	1.39	2.31	13.79	22.98	6.25	10.42	9.03	15.05	4.10	6.83	7.74	12.90	3.51	5.84	5.69	9.49	2.55	4.25	4.86	8.11	1.78	2.97	5.19	8.64	1.92	3.19
South	L118-L119	119	9.34	15.57	2.53	4.22	9.59	15.99	1.33	2.21	21.76	36.27	5.91	9.86	14.25	23.74	3.87	6.45	12.21	20.35	3.32	5.53	8.98	14.97	2.42	4.03	7.67	12.78	1.71	2.86	8.18	13.63	1.83	3.06
South	L119-L120	120	11.00	18.33	2.35	3.92	11.39	18.98	1.27	2.11	25.62	42.71	5.50	9.17	16.77	27.96	3.60	6.00	14.38	23.97	3.08	5.14	10.57	17.62	2.25	3.74	9.03	15.04	1.61	2.68	9.62	16.04	1.72	2.87
South	L120-L121	121	13.78	22.96	2.84	4.74	14.42	24.04	1.57	2.62	32.10	53.50	6.64	11.06	21.01	35.02	4.34	7.24	18.01	30.02	3.72	6.20	13.24	22.06	2.71	4.52	11.30	18.83	1.95	3.25	12.04	20.07	2.12	3.53
South	L121-L122	122	16.36	27.27	3.05	5.08	17.42	29.03	1.75	2.91	38.13	63.55	7.09	11.81	24.95	41.59	4.64	7.74	21.39	35.65	3.98	6.63	15.71	26.19	2.92	4.86	13.41	22.35	2.13	3.56	14.28	23.80	2.28	3.80
South	L122-L123	123	18.53	30.88	2.91	4.85	20.18	33.63	1.73	2.89	43.22	72.03	6.75	11.25	28.27	47.12	4.43	7.39	24.24	40.40	3.80	6.33	17.77	29.61	2.81	4.68	15.18	25.30	2.09	3.48	16.14	26.91	2.20	3.67
South	L123-L124	124	21.65	36.09	3.09	5.16	24.34	40.56	1.90	3.17	50.55	84.25	7.12	11.87	33.05	55.09	4.69	7.82	28.34	47.23	4.03	6.72	20.72	34.53	3.03	5.05	17.64	29.39	2.21	3.68	18.81	31.35	2.39	3.99
South	L124-L125	125	37.65	62.75	8.45	14.08	43.62	72.69	5.35	8.91	91.20	152.00	19.24	32.07	58.13	96.89	12.72	21.20	49.62	82.70	11.01	18.34	37.00	61.67	8.36	13.94	31.69	52.82	5.96	9.94	33.78	56.30	6.56	10.94
South	L125-L126	126	44.79	74.66	59.42	99.04	25.24	42.07	50.12	83.53	107.00	178.33	141.29	235.48	69.79	116.31	92.23	153.72	59.52	99.20	78.74	131.23	41.38	68.96	55.39	92.31	26.39	43.98	34.86	58.10	28.51	47.52	38.90	64.83
South	U0-U1	127	3.09	5.14	86.31	143.85	3.24	5.40	168.21	280.36	6.86	11.43	178.21	297.02	4.59	7.65	122.55	204.24	4.01	6.69	107.81	179.69	3.19	5.32	102.34	170.56	2.71	4.52	93.39	155.64	3.10	5.16	117.32	195.53
South	U1-U2	128	1.48	2.47	69.89	116.48	1.52	2.54	128.16	213.60	3.28	5.46	146.44	244.07	2.20	3.67	98.90	164.84	1.89	3.15	88.01	146.68	1.53	2.54	82.22	137.04	1.33	2.22	73.72	122.86	1.50	2.50	89.73	149.55
South	U2-U3	129	1.77	2.95	79.84	133.06	1.80	3.00	152.00	253.33	3.92	6.53	169.39	282.31	2.60	4.33	114.33	190.55	2.25	3.76	101.10	168.50	1.84	3.07	93.95	156.58	1.63	2.72	80.76	134.60	1.80	3.00	96.02	160.04
South	U3-U4	130	1.33	2.22	75.02	125.03	1.36	2.27	148.73	247.89	2.97	4.95	159.47	265.78	1.98	3.30	108.20	180.33	1.70	2.84	95.25	158.76	1.40	2.33	88.02	146.70	1.23	2.06	74.46	124.09	1.38	2.30	86.22	143.70

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	U4-U5	131	1.40	2.33	76.71	127.86	1.45	2.41	175.55	292.59	3.13	5.22	163.67	272.78	2.08	3.47	110.80	184.67	1.81	3.02	98.27	163.78	1.46	2.44	90.04	150.07	1.26	2.10	65.84	109.73	1.46	2.44	78.80	131.33
South	U5-U6	132	1.40	2.33	76.42	127.37	1.45	2.41	174.38	290.63	3.13	5.22	163.10	271.84	2.08	3.47	110.40	184.00	1.81	3.02	97.94	163.23	1.46	2.44	89.74	149.56	1.26	2.10	65.73	109.54	1.46	2.44	78.65	131.09
South	U6-U7	133	1.92	3.20	84.38	140.63	2.03	3.38	218.13	363.55	4.36	7.27	182.47	304.11	2.89	4.82	122.96	204.94	2.51	4.18	108.65	181.09	2.01	3.36	99.92	166.53	1.68	2.81	66.46	110.76	1.95	3.25	83.59	139.32
South	U7-U8	134	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U8-U9	135	77.22	128.69	2.57	4.29	166.87	278.11	2.46	4.09	174.45	290.75	5.88	9.80	115.79	192.98	3.89	6.49	100.59	167.66	3.37	5.61	82.25	137.08	2.63	4.38	54.70	91.16	2.18	3.63	60.28	100.47	2.37	3.96
South	U9-U10	136	80.16	133.59	2.43	4.05	170.70	284.49	2.11	3.52	181.20	301.99	5.56	9.27	120.25	200.41	3.68	6.13	104.45	174.09	3.18	5.31	83.19	138.65	2.46	4.10	50.02	83.37	1.98	3.30	59.34	98.90	2.17	3.62
South	U10-U11	137	14.35	23.92	2.28	3.80	14.30	23.83	2.26	3.77	32.30	53.84	5.22	8.70	21.54	35.89	3.45	5.75	18.75	31.26	2.98	4.97	14.46	24.10	2.26	3.77	12.01	20.02	1.98	3.30	13.19	21.98	2.24	3.74
South	U11-U12	138	6.01	10.02	2.29	3.82	5.64	9.40	2.90	4.83	13.54	22.57	5.24	8.74	9.04	15.06	3.47	5.78	7.76	12.93	3.00	5.00	5.98	9.97	2.28	3.79	5.05	8.42	2.00	3.33	5.45	9.08	2.55	4.25
South	U12-U13	139	3.53	5.89	2.62	4.36	3.16	5.27	4.36	7.26	8.00	13.34	5.98	9.97	5.30	8.84	3.96	6.59	4.56	7.61	3.42	5.70	3.50	5.84	2.60	4.33	2.99	4.98	2.29	3.82	3.17	5.29	3.24	5.40
South	U13-U14	140	2.49	4.15	3.03	5.04	2.12	3.53	6.52	10.86	5.65	9.41	6.92	11.53	3.72	6.21	4.58	7.63	3.22	5.36	3.95	6.59	2.48	4.13	3.01	5.02	2.06	3.44	2.66	4.43	2.23	3.72	3.56	5.94
South	U14-U15	141	2.13	3.55	3.54	5.90	1.72	2.87	5.95	9.91	4.85	8.09	8.02	13.37	3.20	5.33	5.32	8.86	2.76	4.59	4.59	7.65	2.13	3.56	3.54	5.91	1.74	2.91	3.12	5.19	1.93	3.21	3.78	6.31
South	U15-U16	142	2.13	3.55	3.54	5.89	1.72	2.87	5.95	9.91	4.85	8.09	8.02	13.37	3.20	5.33	5.32	8.86	2.76	4.59	4.59	7.65	2.13	3.56	3.54	5.91	1.74	2.91	3.12	5.19	1.93	3.21	3.78	6.31
South	U16-U17	143	2.23	3.72	3.24	5.40	1.89	3.15	4.81	8.01	5.09	8.48	7.28	12.13	3.37	5.62	4.83	8.06	2.90	4.83	4.17	6.94	2.22	3.70	3.27	5.45	1.83	3.06	2.93	4.89	1.99	3.31	3.29	5.49
South	U17-U18	144	2.88	4.80	2.62	4.37	2.56	4.27	3.88	6.47	6.55	10.91	5.90	9.83	4.34	7.24	3.92	6.53	3.73	6.22	3.38	5.63	2.87	4.79	2.65	4.42	2.40	4.01	2.36	3.94	2.58	4.30	2.67	4.44
South	U18-U19	145	4.54	7.57	2.09	3.49	4.39	7.32	2.94	4.90	10.27	17.12	4.71	7.85	6.82	11.36	3.13	5.21	5.89	9.82	2.70	4.49	4.61	7.69	2.12	3.53	3.85	6.41	1.88	3.13	4.21	7.02	2.13	3.54
South	U19-U20	146	10.62	17.71	2.20	3.66	12.18	20.31	2.44	4.06	23.82	39.70	4.95	8.24	15.89	26.49	3.28	5.47	13.83	23.05	2.83	4.72	11.07	18.45	2.22	3.70	9.36	15.60	1.95	3.26	10.32	17.20	2.23	3.71
South	U20-U21	147	31.19	51.99	2.18	3.63	36.39	60.66	2.08	3.47	67.74	112.91	4.84	8.06	45.44	75.74	3.23	5.39	39.97	66.61	2.79	4.64	31.31	52.18	2.23	3.71	23.60	39.33	1.82	3.03	26.56	44.27	2.17	3.61
South	U21-U22	148	17.32	28.86	3.05	5.08	24.15	40.25	3.23	5.38	37.47	62.44	6.80	11.33	25.27	42.11	4.54	7.57	22.30	37.17	3.95	6.58	20.09	33.48	3.21	5.35	16.87	28.12	2.55	4.26	20.25	33.75	3.17	5.28
South	U22-U23	149	10.74	17.90	12.78	21.30	18.53	30.89	19.68	32.81	24.02	40.03	28.60	47.66	15.90	26.50	18.93	31.56	13.76	22.94	16.39	27.31	10.86	18.10	12.91	21.51	8.56	14.26	10.17	16.95	11.62	19.37	13.84	23.06
South	U23-U24	150	1.90	3.17	18.54	30.90	2.46	4.10	29.90	49.83	4.08	6.80	41.49	69.15	2.77	4.61	27.46	45.77	2.40	4.00	23.80	39.66	2.05	3.42	19.32	32.20	1.80	3.00	14.71	24.52	2.12	3.54	20.23	33.72
South	U24-U25	151	1.30	2.16	28.61	47.68	1.58	2.64	48.63	81.05	2.80	4.67	63.86	106.43	1.87	3.12	42.40	70.67	1.63	2.72	36.67	61.12	1.43	2.38	30.23	50.38	1.31	2.18	24.20	40.34	1.45	2.42	30.63	51.05
South	U25-U26	152	1.30	2.16	28.60	47.66	1.58	2.64	48.61	81.02	2.80	4.67	63.83	106.38	1.87	3.12	42.39	70.65	1.63	2.72	36.66	61.10	1.43	2.38	30.22	50.36	1.31	2.18	24.20	40.34	1.45	2.42	30.61	51.01
South	U26-U27	153	1.49	2.48	40.14	66.90	1.83	3.06	82.25	137.09	3.23	5.38	87.48	145.80	2.17	3.62	58.72	97.87	1.88	3.14	50.95	84.91	1.66	2.76	43.04	71.73	1.48	2.47	36.15	60.25	1.67	2.78	46.43	77.39
South	U27-U28	154	2.99	4.99	64.37	107.28	3.81	6.34	156.88	261.47	6.62	11.04	142.43	237.38	4.42	7.37	95.14	158.57	3.87	6.45	83.08	138.46	3.40	5.67	71.67	119.44	2.90	4.83	53.77	89.62	3.42	5.69	73.30	122.16
South	U28-U29	155	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U29-U30	156	76.36	127.27	5.35	8.92	167.44	279.06	6.10	10.16	173.06	288.43	12.07	20.11	114.70	191.17	8.01	13.36	99.33	165.55	6.97	11.61	80.36	133.93	5.74	9.56	56.55	94.25	4.81	8.01	74.72	124.54	5.68	9.46
South	U30-U31	157	7.78	12.97	3.49	5.81	7.52	12.54	5.50	9.16	17.57	29.28	7.85	13.09	11.70	19.50	5.22	8.70	10.20	16.99	4.54	7.56	7.79	12.98	3.64	6.06	6.34	10.57	3.19	5.31	6.93	11.55	3.64	6.06
South	U31-U32	158	2.52	4.20	3.61	6.01	2.36	3.93	5.84	9.73	5.68	9.46	8.12	13.53	3.79	6.31	5.40	8.99	3.25	5.42	4.69	7.82	2.50	4.16	3.76	6.27	2.11	3.52	3.30	5.49	2.28	3.79	3.76	6.27
South	U32-U33	159	1.32	2.19	4.71	7.85	1.18	1.97	7.63	12.72	2.98	4.97	10.60	17.66	1.98	3.29	7.05	11.74	1.70	2.83	6.13	10.21	1.30	2.17	4.91	8.18	1.11	1.85	4.29	7.15	1.18	1.97	4.91	8.18
South	U33-U34	160	1.53	2.56	7.55	12.59	1.31	2.19	12.12	20.20	3.48	5.80	16.96	28.27	2.29	3.82	11.29	18.81	1.98	3.30	9.80	16.34	1.52	2.54	7.84	13.07	1.27	2.12	6.85	11.42	1.38	2.30	7.86	13.09
South	U34-U35	161	1.58	2.63	9.42	15.70	1.28	2.14	13.61	22.68	3.59	5.99	21.06	35.10	2.37	3.95	14.05	23.42	2.04	3.40	12.16	20.27	1.58	2.64	9.71	16.18	1.30	2.16	8.52	14.20	1.43	2.39	9.73	16.21
South	U35-U36	162	1.58	2.63	9.42	15.69	1.28	2.14	13.61	22.68	3.59	5.99	21.06	35.09	2.37	3.95	14.05	23.42	2.04	3.40	12.16	20.27	1.58	2.64	9.71	16.18	1.30	2.16	8.52	14.20	1.43	2.39	9.73	16.21
South	U36-U37	163	1.67	2.78	8.16	13.60	1.42	2.36	10.37	17.29	3.80	6.33	18.33	30.54	2.52	4.20	12.23	20.38	2.16	3.60	10.53	17.54	1.66	2.77	8.20	13.66	1.37	2.29	6.89	11.49	1.49	2.48	7.81	13.02
South	U37-U38	164	2.00	3.33	5.82	9.70	1.79	2.98	7.25	12.08	4.54	7.56	13.08	21.80	3.01	5.01	8.72	14.53	2.59	4.32	7.51	12.52	2.00	3.33	5.85	9.75	1.67	2.78	4.85	8.08	1.79	2.99	5.54	9.24
South	U38-U39	165	4.42	7.37	5.55	9.25	4.32	7.21	6.68	11.13	9.96	16.60	12.51	20.85	6.62	11.03	8.32	13.87	5.72	9.54	7.18	11.97	4.49	7.49	5.59	9.31	3.75	6.25	4.55	7.58	4.10	6.84	5.26	8.76
South	U39-U40	166	11.87	19.78	5.92	9.86	14.23	23.71	6.32	10.53	26.52	44.21	13.39	22.32	17.66	29.44	8.88	14.81	15.38	25.64	7.67	12.78	12.53	20.89	5.97	9.95	10.65	17.74	4.76	7.93	11.83	19.72	5.54	9.24
South	U40-U41	167	33.19	55.31	7.13	11.88	37.81	63.02	5.37	8.94	71.18	118.64	16.23	27.05	47.91	79.85	10.74	17.91	42.30	70.49	9.27	15.45	36.02	60.03	7.32	12.20	27.50	45.83	5.41	9.02	31.33	52.21	6.39	10.65
South	U41-U42	168	19.99	33.31	21.62	36.03	30.75	51.25	21.00	35.00	43.80	73.01	48.23	80.38	28.99	48.32	31.99	53.31	25.25	42.09	27.65	46.09	20.99	34.99	22.64	37.74	16.00	26.66	16.73	27.88	22.96	38.26	22.44	37.39
South	U42-U43	169	2.89	4.81	26.08	43.47	3.67	6.11	30.01	50.01	6.32	10.53	58.50	97.51	4.25	7.09	38.84	64.73	3.69	6.16	33.66	56.10	3.02	5.04	28.44	47.40	2.54	4.23	20.14	33.57	3.12	5.21	29.89	49.81
South	U43-U44	170	1.53	2.55	37.77	62.95	1.77	2.95	54.48	90.80	3.36	5.59	83.93	139.89	2.25	3.75	55.65	92.75	1.94	3.23	48.39	80.65	1.61	2.68	40.31	67.19	1.42	2.37	29.53	49.22	1.65	2.74	40.58	67.64
South	U44-U45	171	1.42	2.36	52.31	87.18	1.49	2.48	81.20	135.34	3.13	5.21	116.68	194.47	2.07	3.45	77.51	129.18	1.80	3.00	67.17	111.95	1.55	2.58	56.44	94.07	1.39	2.32	42.30	70.51	1.54	2.56	56.27	93.78
South	U45-U46	172	1.42	2.36	52.30	87.17	1.49	2.48	81.34	135.57	3.13	5.21	116.65	194.42	2.07	3.45	77.50	129.17	1.80	3.00	67.16	111.93	1.55	2.58	56.43	94.04	1.39	2.32	42.34	70.56	1.54	2.57	56.32	93.87
South	U46-U47	173	1.65	2.76	65.67	109.46	1.78	2.96	126.84	211.40	3.64	6.07	143.90	239.84	2.44	4.06	96.30	160.50	2.12	3.53	84.49	140.81	1.77	2.94	72.40	120.67	1.54	2.57	53.60	89.34	1.76	2.94	73.09	121.82
South	U47-U48	174	3.65	6.09	111.67	186.12	4.01	6.69	256.20	426.99	8.18	13.63	249.63	416.05	5.44	9.07	165.98	276.63	4.74	7.91	144.68	241.14	3.97	6.62	123.43	205.72	3.35	5.58	89.89	149.82	3.92	6.53	121.84	203.06
South	U48-U49	175	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U49-U50	176	141.06	235.10	8.06	13.43	256.40	427.33	8.09	13.48	331.19	551.98	18.29	30.48	216.99	361.65	12.06	20.10	185.57	309.29	10.40	17.34	141.16	235.27	8.38	13.97	94.96	158.27	6.97	11.62	118.36	197.27	8.01	13.35
South	U50-U51	177	11.82	19.70	5.18	8.64	9.71	16.18	6.61	11.02	27.17	45.28	11.82	19.70	17.86	29.77	7.75	12.92	15.45	25.74	6.69	11.15	11.81	19.68	5.28	8.81	9.33	15.55	4.58	7.63	10.36	17.27	5.12	8.54
South	U51-U52	178	4.10	6.83	5.25	8.74	3.20	5.33	6.56	10.94	9.40	15.67	11.97	19.95	6.19	10.31	7.85	13.08	5.33	8.88	6.78	11.29	4.06	6.76	5.34	8.91	3.37	5.62	4.62	7.71	3.62	6.04	5.17	8.62
South	U52-U53	179	2.11	3.51	6.30	10.49	1.60	2.67	8.02	13.36	4.85	8.08	14.37	23.95	3.18	5.31	9.43	15.71	2.74	4.56	8.14	13.56	2.07	3.45	6.41	10.68	1.75	2.92	5.53	9.22	1.85	3.09	6.20	10.33
South	U53-U54	180	1.65	2.75	8.18	13.63	1.21	2.02	10.57	17.62	3.79	6.32	18.68	31.14	2.49	4.15	12.25	20.42	2.14	3.57	10.57	17.62	1.61	2.69	8.29	13.81	1.32	2.20	7.16	11.94	1.44	2.41	8.05	13.41
South	U54-U55	181	1.79	2.99	10.48	17.46	1.28	2.13	13.83	23.06	4.14	6.90	23.99	39.98	2.72	4.53	15.71	26.18	2.33	3.89	13.54	22.57	1.77	2.95	10.56	17.60	1.41	2.36	9.18	15.30	1.53	2.55	10.33	17.21
South	U55-U56	182	1.73	2.88	9.98	16.63	1.19	1.98	12.96	21.59	3.98	6.64	22.96	38.27	2.61	4.36	15.04	25.07	2.24	3.74	12.96	21.59	1.70	2.84	9.93	16.55	1.38	2.30	8.66	14.43	1.47	2.44	9.71	16.18
South	U56-U57	183	1.73	2.88	9.98	16.63	1.19	1.98	12.96	21.59	3.98	6.64	22.96	38.27	2.61	4.36	15.04	25.07	2.24	3.74	12.96	21.59	1.70	2.84	9.93	16.55	1.38	2.30	8.66	14.43	1.47	2.44	9.70	16.17
South	U57-U58	184	1.04	1.73	6.22	10.37	**0.72**	1.21	7.99	13.31	2.39	3.98	14.32	23.87	1.57	2.61	9.38	15.64	1.35	2.24	8.08	13.46	1.01	1.69	6.19	10.32	**0.80**	1.34	5.35	8.91	**0.87**	1.45	6.04	10.07
South	U58-U59	185	2.16	3.60	5.77	9.62	1.57	2.61	7.29	12.14	4.98	8.29	13.30	22.16	3.27	5.45	8.71	14.52	2.81	4.68	7.50	12.50	2.12	3.54	5.75	9.58	1.69	2.82	4.91	8.18	1.86	3.10	5.60	9.33
South	U59-U60	186	2.87	4.78	3.91	6.51	2.18	3.63	4.82	8.03	6.58	10.96	8.99	14.99	4.32	7.21	5.90	9.83	3.72	6.20	5.07	8.45	2.83	4.72	3.89	6.48	2.36	3.93	3.28	5.47	2.49	4.16	3.78	6.29
South	U60-U61	187	5.71	9.52	3.11	5.18	4.72	7.86	3.62	6.04	12.98	21.63	7.16	11.94	8.55	14.24	4.70	7.83	7.36	12.27	4.04	6.73	5.75	9.58	3.10	5.16	4.75	7.92	2.58	4.30	5.15	8.59	3.00	5.00
South	U61-U62	188	14.59	24.32	3.01	5.01	14.28	23.81	2.65	4.41	32.92	54.86	6.93	11.55	21.71	36.19	4.54	7.57	18.69	31.15	3.91	6.51	15.03	25.05	3.00	4.99	12.72	21.21	2.45	4.09	13.91	23.18	2.89	4.82
South	U62-U63	189	42.46	70.76	5.16	8.60	42.37	70.61	4.39	7.32	94.98	158.30	11.89	19.82	62.73	104.55	7.80	13.01	54.41	90.68	6.72	11.19	45.29	75.49	5.23	8.72	29.67	49.46	4.10	6.84	32.90	54.84	4.71	7.85
South	U63-U64	190	27.34	45.57	6.11	10.18	29.37	48.95	5.50	9.16	60.10	100.17	14.12	23.54	40.17	66.95	9.26	15.43	34.86	58.09	7.96	13.27	30.49	50.81	6.26	10.44	20.98	34.97	4.64	7.73	23.78	39.64	5.44	9.07
South	U64-U65	191	15.59	25.98	20.07	33.45	16.71	27.85	20.06	33.43	35.36	58.93	45.57	75.96	23.22	38.70	29.93	49.88	19.99	33.32	25.77	42.94	15.66	26.11	20.13	33.55	10.97	18.29	13.89	23.15	13.19	21.98	17.10	28.50
South	U65-U66	192	2.91	4.85	26.24	43.73	3.44	5.73	28.85	48.08	6.59	10.99	59.49	99.15	4.35	7.24	39.26	65.44	3.75	6.26	33.80	56.34	3.11	5.18	26.80	44.66	2.53	4.21	17.74	29.57	2.97	4.96	22.44	37.39
South	U66-U67	193	1.23	2.06	31.73	52.88	1.40	2.34	39.19	65.32	2.78	4.63	71.67	119.44	1.82	3.03	47.28	78.81	1.58	2.63	40.74	67.90	1.30	2.16	32.37	53.95	1.13	1.89	22.23	37.05	1.34	2.23	28.85	48.09
South	U67-U68	194	1.38	2.30	44.49	74.15	1.49	2.49	61.66	102.77	3.09	5.15	99.51	165.85	2.03	3.38	65.62	109.36	1.75	2.92	56.64	94.41	1.51	2.51	46.41	77.35	1.34	2.24	32.80	54.67	1.52	2.53	41.20	68.66
South	U68-U69	195	1.38	2.30	44.50	74.16	1.49	2.49	62.00	103.34	3.09	5.15	99.50	165.83	2.03	3.38	65.60	109.34	1.75	2.92	56.65	94.41	1.51	2.51	46.49	77.48	1.34	2.24	32.87	54.78	1.52	2.53	41.32	68.86

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	U69-U70	196	1.61	2.68	50.08	83.46	1.81	3.01	89.09	148.49	3.61	6.01	111.28	185.47	2.36	3.93	72.93	121.55	2.04	3.41	63.39	105.65	1.69	2.82	52.19	86.98	1.48	2.47	38.54	64.24	1.72	2.86	51.61	86.02
South	U70-U71	197	3.14	5.24	71.87	119.78	3.59	5.98	151.57	252.61	7.07	11.78	159.74	266.24	4.69	7.82	105.88	176.47	4.05	6.75	91.02	151.70	3.35	5.58	76.68	127.79	2.81	4.69	53.70	89.50	3.33	5.55	70.14	116.90
South	U71-U72	198	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U72-U73	199	83.53	139.22	5.55	9.25	196.71	327.86	5.73	9.55	189.97	316.62	12.65	21.08	125.84	209.73	8.36	13.93	108.47	180.79	7.23	12.06	85.94	143.24	5.73	9.54	58.87	98.11	4.74	7.89	74.33	123.88	5.40	9.01
South	U73-U74	200	79.19	131.98	4.71	7.85	170.75	284.59	4.42	7.36	180.81	301.35	10.75	17.92	118.63	197.72	7.07	11.78	101.82	169.70	6.08	10.14	79.79	132.98	4.74	7.90	56.07	93.45	4.01	6.69	67.88	113.13	4.45	7.41
South	U74-U75	201	11.91	19.85	2.64	4.41	7.97	13.29	3.10	5.17	27.87	46.45	6.08	10.13	18.35	30.59	3.98	6.63	15.68	26.13	3.42	5.71	11.53	19.22	2.63	4.38	8.09	13.48	2.30	3.84	8.88	14.80	2.52	4.20
South	U75-U76	202	5.84	9.73	4.33	7.22	3.88	6.47	5.83	9.72	13.67	22.78	9.96	16.60	8.95	14.92	6.52	10.86	7.67	12.79	5.61	9.35	5.65	9.42	4.30	7.16	4.10	6.83	3.74	6.24	4.44	7.41	4.11	6.85
South	U76-U77	203	2.63	4.38	4.41	7.34	1.70	2.83	5.81	9.68	6.16	10.27	10.14	16.90	4.03	6.71	6.64	11.06	3.45	5.75	5.71	9.51	2.52	4.20	4.36	7.26	1.86	3.11	3.78	6.30	1.98	3.31	4.15	6.91
South	U77-U78	204	2.16	3.61	6.02	10.04	1.36	2.27	7.86	13.10	5.07	8.45	13.87	23.12	3.31	5.52	9.08	15.13	2.84	4.74	7.81	13.01	2.07	3.45	5.94	9.91	1.50	2.50	5.14	8.56	1.63	2.71	5.64	9.40
South	U78-U79	205	2.18	3.63	7.76	12.93	1.34	2.23	9.76	16.27	5.10	8.49	17.91	29.85	3.33	5.55	11.72	19.54	2.86	4.76	10.07	16.79	2.08	3.47	7.62	12.69	1.49	2.49	6.60	11.00	1.63	2.72	7.21	12.01
South	U79-U80	206	2.04	3.40	8.42	14.04	1.22	2.04	9.95	16.58	4.76	7.94	19.52	32.53	3.12	5.20	12.78	21.31	2.67	4.45	10.97	18.29	1.95	3.25	8.22	13.70	1.39	2.32	7.18	11.97	1.51	2.51	7.78	12.96
South	U80-U81	207	2.37	3.95	8.38	13.96	1.39	2.31	9.24	15.40	5.53	9.22	19.52	32.54	3.62	6.04	12.79	21.31	3.10	5.17	10.95	18.26	2.28	3.79	8.07	13.44	1.61	2.68	6.91	11.52	1.74	2.90	7.36	12.27
South	U81-U82	208	2.34	3.89	6.78	11.30	1.34	2.23	7.46	12.44	5.45	9.09	15.80	26.33	3.57	5.94	10.35	17.24	3.06	5.09	8.86	14.77	2.25	3.74	6.53	10.88	1.57	2.62	5.59	9.31	1.71	2.85	5.95	9.92
South	U82-U83	209	2.34	3.89	6.78	11.30	1.34	2.23	7.46	12.44	5.45	9.09	15.80	26.33	3.57	5.94	10.35	17.24	3.06	5.09	8.86	14.77	2.25	3.74	6.53	10.88	1.57	2.62	5.59	9.31	1.71	2.85	5.95	9.92
South	U83-U84	210	2.52	4.20	5.39	8.98	1.46	2.44	5.93	9.88	5.87	9.79	12.56	20.93	3.84	6.40	8.23	13.71	3.29	5.49	7.05	11.75	2.41	4.02	5.19	8.65	1.69	2.82	4.44	7.40	1.84	3.06	4.73	7.88
South	U84-U85	211	2.65	4.41	3.79	6.31	1.57	2.62	4.16	6.93	6.18	10.30	8.83	14.72	4.04	6.73	5.78	9.64	3.46	5.77	4.95	8.26	2.53	4.21	3.65	6.08	1.79	2.99	3.12	5.20	1.94	3.24	3.32	5.54
South	U85-U86	212	3.68	6.14	3.01	5.02	2.25	3.75	3.30	5.51	8.60	14.33	7.03	11.71	5.62	9.37	4.60	7.67	4.82	8.03	3.94	6.57	3.52	5.86	2.90	4.84	2.50	4.17	2.48	4.14	2.74	4.56	2.64	4.40
South	U86-U87	213	5.69	9.49	2.61	4.34	3.60	6.00	2.80	4.67	13.27	22.12	6.08	10.13	8.68	14.46	3.98	6.63	7.44	12.41	3.41	5.68	5.45	9.08	2.51	4.18	3.95	6.58	2.14	3.57	4.27	7.12	2.28	3.80
South	U87-U88	214	9.57	15.95	2.57	4.29	6.36	10.61	2.37	3.95	22.27	37.12	6.00	10.00	14.57	24.28	3.93	6.54	12.51	20.84	3.37	5.61	9.21	15.35	2.48	4.13	6.85	11.42	2.12	3.53	7.34	12.24	2.25	3.75
South	U88-U89	215	16.93	28.22	2.53	4.21	12.08	20.13	1.99	3.31	39.21	65.35	5.89	9.82	25.71	42.85	3.86	6.43	22.08	36.79	3.31	5.51	16.47	27.45	2.43	4.05	12.31	20.52	1.93	3.22	13.47	22.44	2.11	3.51
South	U89-U90	216	40.75	67.91	3.09	5.15	31.58	52.63	2.10	3.51	93.93	156.55	7.21	12.02	61.93	103.22	4.72	7.86	53.22	88.70	4.04	6.74	40.22	67.03	2.97	4.96	24.41	40.69	2.20	3.67	27.19	45.32	2.42	4.04
South	U90-U91	217	86.78	144.63	2.91	4.85	116.83	194.72	1.87	3.12	201.78	336.30	6.78	11.30	131.94	219.90	4.43	7.39	113.42	189.04	3.80	6.34	83.79	139.65	2.80	4.67	37.91	63.18	1.96	3.27	45.63	76.05	2.19	3.64
South	U91-U92	218	82.12	136.87	2.69	4.49	121.52	202.53	1.85	3.09	190.96	318.27	6.28	10.46	124.95	208.25	4.10	6.84	107.35	178.91	3.53	5.88	79.71	132.85	2.61	4.35	38.47	64.11	1.91	3.18	46.71	77.86	2.13	3.55
South	U92-U93	219	75.79	126.32	2.47	4.12	120.86	201.44	1.83	3.04	176.11	293.51	5.76	9.59	115.45	192.42	3.77	6.28	99.04	165.06	3.23	5.39	74.21	123.69	2.41	4.02	38.97	64.95	1.84	3.07	47.48	79.13	2.07	3.44
South	U93-U94	220	68.40	114.01	2.26	3.76	119.28	198.81	1.80	3.00	158.62	264.36	5.24	8.74	104.49	174.14	3.44	5.73	89.31	148.85	2.95	4.92	67.52	112.54	2.24	3.73	37.13	61.89	1.72	2.87	47.39	78.99	1.94	3.23
South	U94-U95	221	69.39	115.65	2.70	4.50	128.56	214.27	2.33	3.88	159.66	266.10	6.26	10.43	105.59	175.99	4.14	6.90	90.31	150.52	3.54	5.90	68.00	113.33	2.69	4.48	38.29	63.82	2.10	3.50	47.85	79.76	2.33	3.89
South	U95-U96	222	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U96-U97	223	2.06	3.44	70.27	117.12	1.93	3.22	136.60	227.66	4.76	7.93	160.75	267.92	3.15	5.25	106.88	178.14	2.70	4.50	91.09	151.81	2.10	3.49	70.47	117.45	1.70	2.83	44.25	73.74	1.88	3.13	51.75	86.24
South	U97-U98	224	1.54	2.56	61.85	103.09	1.42	2.37	115.87	193.11	3.53	5.89	142.11	236.85	2.32	3.86	93.33	155.55	1.99	3.32	80.27	133.78	1.56	2.59	62.56	104.26	1.30	2.16	41.50	69.17	1.43	2.39	47.33	78.89
South	U98-U99	225	1.32	2.20	58.72	97.86	1.21	2.02	102.50	170.84	3.02	5.03	135.12	225.20	1.98	3.30	88.33	147.22	1.71	2.84	76.23	127.05	1.33	2.22	58.29	97.14	1.13	1.88	40.04	66.74	1.23	2.05	44.60	74.33
South	U99-U100	226	1.33	2.21	54.50	90.84	1.21	2.01	88.51	147.51	3.02	5.03	124.81	208.02	1.98	3.30	81.65	136.08	1.71	2.84	70.35	117.24	1.37	2.28	54.32	90.54	1.14	1.89	35.61	59.36	1.29	2.14	43.38	72.30
South	U100-U101	227	1.33	2.21	54.52	90.87	1.21	2.01	88.50	147.50	3.02	5.03	124.84	208.07	1.98	3.30	81.68	136.13	1.71	2.84	70.37	117.28	1.37	2.28	54.35	90.58	1.14	1.89	35.62	59.36	1.29	2.14	43.38	72.31
South	U101-U102	228	1.30	2.16	47.84	79.73	1.18	1.97	74.86	124.76	2.96	4.93	109.32	182.21	1.94	3.23	71.75	119.58	1.67	2.78	61.69	102.81	1.31	2.19	48.25	80.42	1.11	1.84	32.97	54.95	1.21	2.02	38.91	64.86
South	U102-U103	229	1.30	2.16	37.28	62.14	1.20	1.99	54.36	90.61	2.96	4.94	84.22	140.37	1.94	3.24	55.61	92.68	1.68	2.79	47.82	79.69	1.31	2.18	37.92	63.20	1.10	1.83	27.52	45.87	1.21	2.01	30.30	50.49
South	U103-U104	230	1.52	2.54	23.74	39.57	1.43	2.38	32.70	54.50	3.47	5.79	53.75	89.58	2.30	3.83	35.53	59.22	1.98	3.30	30.55	50.92	1.55	2.59	23.80	39.67	1.27	2.12	17.58	29.30	1.40	2.33	20.11	33.52
South	U104-U105	231	11.93	19.89	17.49	29.15	11.39	18.99	22.00	36.67	27.39	45.65	39.96	66.60	17.97	29.94	26.21	43.69	15.44	25.73	22.55	37.59	11.79	19.64	17.43	29.04	9.39	15.65	14.07	23.45	10.68	17.80	16.22	27.04
South	U105-U106	232	21.26	35.44	2.66	4.43	29.56	49.27	2.44	4.07	48.14	80.23	6.21	10.36	32.04	53.39	4.07	6.79	27.52	45.87	3.50	5.83	21.78	36.31	2.61	4.35	21.59	35.98	2.13	3.55	24.21	40.36	2.38	3.97
South	U106-U107	233	42.45	70.75	2.56	4.27	52.17	86.95	2.10	3.51	96.45	160.75	5.96	9.93	64.06	106.76	3.91	6.52	55.01	91.69	3.36	5.61	43.67	72.79	2.50	4.17	37.93	63.22	2.02	3.36	42.80	71.33	2.27	3.78
South	U107-U108	234	61.64	102.73	2.75	4.58	65.86	109.77	2.07	3.45	140.03	233.38	6.37	10.62	92.41	154.02	4.19	6.98	80.30	133.83	3.59	5.98	62.26	103.77	2.66	4.44	48.41	80.69	2.12	3.53	55.24	92.06	2.34	3.90
South	U108-U109	235	76.13	126.89	2.93	4.88	69.98	116.64	2.06	3.43	173.25	288.75	6.82	11.36	114.24	190.40	4.47	7.45	99.21	165.35	3.83	6.38	77.57	129.28	2.83	4.71	52.68	87.81	2.16	3.61	56.79	94.65	2.37	3.95
South	U109-U110	236	80.74	134.57	3.30	5.50	65.90	109.83	2.17	3.62	190.17	316.95	7.69	12.82	125.54	209.23	5.03	8.39	107.12	178.53	4.31	7.19	74.38	123.96	3.17	5.28	50.64	84.40	2.32	3.87	56.44	94.07	2.55	4.25
South	U110-U111	237	31.01	51.68	3.57	5.95	24.74	41.23	2.53	4.21	71.78	119.64	8.34	13.90	47.03	78.39	5.46	9.09	40.48	67.47	4.68	7.79	30.33	50.56	3.43	5.72	22.28	37.13	2.55	4.25	24.42	40.69	2.76	4.60
South	U111-U112	238	15.99	26.66	3.24	5.40	11.68	19.47	2.66	4.43	37.21	62.02	7.56	12.59	24.40	40.67	4.94	8.24	20.91	34.85	4.24	7.06	15.34	25.57	3.11	5.19	11.38	18.97	2.44	4.07	12.25	20.42	2.66	4.43
South	U112-U113	239	9.57	15.95	3.20	5.33	6.21	10.35	3.09	5.15	22.24	37.07	7.46	12.44	14.59	24.32	4.88	8.13	12.51	20.86	4.18	6.97	9.11	15.18	3.08	5.13	6.67	11.12	2.61	4.35	7.05	11.74	2.78	4.64
South	U113-U114	240	5.33	8.88	2.94	4.90	3.30	5.49	3.23	5.38	12.43	20.72	6.86	11.43	8.15	13.58	4.49	7.48	6.98	11.64	3.85	6.41	5.09	8.49	2.83	4.71	3.65	6.09	2.40	4.00	3.92	6.54	2.56	4.26
South	U114-U115	241	3.08	5.13	3.12	5.20	1.84	3.07	3.43	5.71	7.19	11.98	7.28	12.14	4.71	7.85	4.76	7.94	4.04	6.73	4.08	6.80	2.93	4.88	3.00	5.00	2.07	3.45	2.55	4.25	2.24	3.74	2.72	4.53
South	U115-U116	242	2.32	3.86	4.23	7.05	1.35	2.25	4.65	7.75	5.41	9.01	9.87	16.44	3.54	5.91	6.45	10.75	3.03	5.06	5.53	9.22	2.21	3.68	4.07	6.78	1.55	2.59	3.45	5.76	1.67	2.78	3.68	6.14
South	U116-U117	243	2.35	3.92	6.53	10.88	1.21	2.02	6.45	10.75	5.49	9.15	15.22	25.36	3.60	5.99	9.95	16.59	3.08	5.13	8.53	14.22	2.24	3.74	6.27	10.46	1.57	2.61	5.33	8.88	1.69	2.82	5.68	9.47
South	U117-U118	244	2.11	3.52	8.30	13.83	1.08	1.80	8.22	13.70	4.94	8.23	19.35	32.25	3.23	5.38	12.66	21.09	2.77	4.61	10.85	18.08	2.02	3.36	7.98	13.30	1.41	2.36	6.78	11.30	1.53	2.54	7.23	12.05
South	U118-U119	245	2.11	3.52	8.29	13.82	1.08	1.80	8.22	13.70	4.93	8.22	19.33	32.22	3.23	5.38	12.64	21.07	2.76	4.61	10.84	18.07	2.02	3.36	7.97	13.29	1.41	2.36	6.77	11.29	1.52	2.54	7.22	12.04
South	U119-U120	246	2.04	3.40	10.35	17.26	1.06	1.77	10.27	17.12	4.77	7.94	24.15	40.24	3.12	5.20	15.79	26.32	2.67	4.45	13.54	22.56	1.95	3.25	9.96	16.60	1.38	2.30	8.46	14.10	1.48	2.47	9.02	15.04
South	U120-U121	247	2.07	3.45	12.71	21.19	1.11	1.85	12.61	21.01	4.84	8.06	29.64	49.40	3.17	5.28	19.38	32.31	2.71	4.52	16.62	27.70	1.98	3.30	12.23	20.38	1.42	2.36	10.39	17.32	1.52	2.54	11.08	18.47
South	U121-U122	248	2.15	3.59	15.35	25.58	1.19	1.98	15.24	25.40	5.02	8.37	35.78	59.64	3.29	5.48	23.40	39.00	2.82	4.70	20.06	33.44	2.06	3.43	14.76	24.60	1.48	2.46	12.55	20.92	1.61	2.69	13.38	22.31
South	U122-U123	249	2.08	3.46	17.80	29.67	1.19	1.99	17.70	29.49	4.84	8.06	41.50	69.17	3.17	5.28	27.14	45.23	2.72	4.53	23.27	38.79	1.99	3.32	17.12	28.54	1.46	2.43	14.56	24.27	1.56	2.61	15.53	25.88
South	U123-U124	250	2.21	3.68	20.92	34.87	1.32	2.20	20.90	34.83	5.11	8.51	48.70	81.17	3.35	5.59	31.88	53.14	2.88	4.80	27.34	45.57	2.13	3.55	20.13	33.54	1.58	2.63	17.18	28.64	1.68	2.80	18.33	30.54
South	U124-U125	251	2.99	4.99	26.53	44.22	1.89	3.16	26.64	44.39	6.90	11.49	61.77	102.95	4.54	7.57	40.44	67.40	3.90	6.51	34.68	57.80	2.94	4.90	25.52	42.53	2.13	3.54	21.80	36.33	2.32	3.86	23.24	38.74
South	U125-U126	252	9.51	15.85	54.78	91.31	6.37	10.61	55.15	91.92	21.90	36.49	127.55	212.59	14.42	24.03	83.51	139.19	12.45	20.75	71.61	119.35	9.44	15.73	52.68	87.80	6.74	11.24	45.00	75.00	7.47	12.45	47.98	79.97
North	L0-L1	253	4.81	8.01	5.76	9.61	3.73	6.22	4.70	7.83	11.38	18.97	13.65	22.75	7.45	12.41	8.93	14.89	6.36	10.61	7.63	12.72	4.50	7.49	5.39	8.99	3.44	5.73	4.12	6.87	4.36	7.27	5.25	8.74
North	L1-L2	254	9.27	15.45	3.10	5.17	10.62	17.70	3.31	5.52	21.40	35.67	6.82	11.36	14.10	23.49	4.57	7.62	12.14	20.23	3.95	6.58	9.32	15.53	3.22	5.36	7.76	12.93	2.55	4.25	11.42	19.04	3.25	5.42
North	L2-L3	255	16.93	28.22	1.96	3.27	17.84	29.73	2.05	3.41	36.82	61.37	4.33	7.22	24.68	41.13	2.89	4.82	21.40	35.67	2.50	4.17	18.20	30.33	2.04	3.40	17.71	29.52	1.70	2.83	20.09	33.48	2.02	3.36
North	L3-L4	256	27.33	45.55	1.95	3.26	27.96	46.61	1.98	3.29	58.14	96.91	4.33	7.21	39.49	65.82	2.87	4.78	34.64	57.73	2.49	4.15	30.45	50.75	2.04	3.40	27.97	46.61	1.74	2.89	32.12	53.53	1.99	3.31
North	L4-L5	257	36.66	61.10	1.92	3.20	37.66	62.77	1.95	3.24	78.04	130.06	4.28	7.14	53.00	88.33	2.86	4.76	47.21	78.69	2.46	4.10	41.34	68.91	2.01	3.35	37.45	62.41	1.73	2.89	43.34	72.23	1.98	3.30
North	L5-L6	258	53.14	88.57	1.96	3.27	52.18	86.96	2.06	3.43	113.45	189.08	4.44	7.40	76.97	128.28	2.95	4.91	68.47	114.11	2.56	4.26	61.36	102.27	2.06	3.43	53.32	88.86	1.71	2.85	62.41	104.01	1.99	3.32
North	L6-L7	259	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L7-L8	260	2.05	3.42	86.69	144.48	1.95	3.26	75.26	125.43	4.69	7.81	181.93	303.22	3.10	5.17	125.44	209.06	2.68	4.47	111.83	186.39	2.10	3.51	101.72	169.53	1.80	3.00	73.48	122.46	1.95	3.26	84.51	140.85

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	L8-L9	261	1.52	2.54	96.02	160.04	1.33	2.21	65.37	108.94	3.48	5.79	226.90	378.17	2.30	3.83	148.53	247.54	1.99	3.32	127.05	211.74	1.55	2.58	91.19	151.98	1.27	2.12	68.69	114.48	1.42	2.37	75.79	126.32
North	L9-L10	262	1.79	2.98	74.39	123.98	1.41	2.34	63.64	106.07	4.09	6.81	175.55	292.58	2.70	4.51	115.11	191.85	2.33	3.88	98.29	163.82	1.78	2.96	70.87	118.11	1.43	2.38	53.28	88.80	1.58	2.64	58.82	98.03
North	L10-L11	263	1.82	3.03	74.78	124.64	1.43	2.39	63.97	106.62	4.16	6.93	176.48	294.13	2.75	4.59	115.71	192.85	2.37	3.95	98.81	164.68	1.81	3.01	71.24	118.73	1.45	2.42	53.56	89.27	1.61	2.68	59.13	98.54
North	L11-L12	264	1.70	2.83	15.78	26.30	1.68	2.80	16.72	27.87	3.88	6.47	34.78	57.96	2.57	4.28	23.35	38.92	2.21	3.69	20.16	33.61	1.68	2.80	16.08	26.80	1.48	2.46	13.76	22.94	1.66	2.77	15.03	25.05
North	L12-L13	265	1.58	2.64	6.46	10.77	2.00	3.34	6.04	10.07	3.63	6.04	14.52	24.19	2.40	4.00	9.67	16.12	2.07	3.44	8.32	13.87	1.57	2.61	6.49	10.82	1.37	2.28	5.53	9.22	1.72	2.87	5.99	9.99
North	L13-L14	266	2.04	3.40	3.97	6.61	3.38	5.63	3.42	5.70	4.67	7.78	8.97	14.96	3.09	5.15	5.93	9.89	2.66	4.44	5.12	8.53	2.02	3.36	3.94	6.57	1.76	2.94	3.36	5.61	2.42	4.03	3.58	5.97
North	L14-L15	267	2.58	4.29	2.93	4.88	5.49	9.15	2.40	4.00	5.88	9.79	6.66	11.10	3.89	6.48	4.39	7.31	3.36	5.59	3.78	6.31	2.57	4.28	2.92	4.87	2.25	3.74	2.43	4.05	2.99	4.98	2.63	4.39
North	L15-L16	268	2.93	4.88	2.82	4.71	4.39	7.32	2.39	3.99	6.57	10.96	6.43	10.71	4.37	7.28	4.25	7.08	3.76	6.27	3.66	6.09	2.96	4.93	2.82	4.70	2.70	4.50	2.33	3.88	2.98	4.97	2.52	4.20
North	L16-L17	269	2.18	3.64	3.33	5.55	3.27	5.45	2.99	4.98	4.90	8.17	7.63	12.71	3.25	5.42	5.03	8.39	2.81	4.68	4.33	7.21	2.20	3.67	3.31	5.51	2.01	3.35	2.76	4.60	2.22	3.71	2.97	4.95
North	L17-L18	270	1.58	2.63	4.56	7.60	1.90	3.16	4.23	7.05	3.55	5.91	10.38	17.31	2.35	3.92	6.85	11.42	2.03	3.38	5.91	9.85	1.59	2.66	4.59	7.64	1.35	2.24	3.80	6.33	1.51	2.51	4.14	6.90
North	L18-L19	271	1.24	2.07	6.59	10.99	**1.00**	1.66	5.40	9.00	2.79	4.66	15.31	25.51	1.86	3.09	10.08	16.81	1.60	2.67	8.67	14.45	1.25	2.08	6.37	10.62	**0.91**	1.52	4.87	8.11	1.00	1.67	5.52	9.20
North	L19-L20	272	1.38	2.29	8.24	13.73	**0.83**	1.39	6.85	11.41	3.16	5.27	19.26	32.10	2.09	3.48	12.65	21.09	1.79	2.98	10.83	18.05	1.35	2.25	7.92	13.19	**0.94**	1.57	5.95	9.92	1.05	1.75	7.22	12.03
North	L20-L21	273	1.26	2.10	42.59	70.99	1.18	1.97	66.76	111.26	2.83	4.71	95.93	159.88	1.88	3.13	63.76	106.27	1.62	2.70	54.87	91.44	1.27	2.12	42.57	70.95	1.09	1.82	32.64	54.40	1.20	2.00	43.12	71.87
North	L21-L22	274	1.38	2.30	50.42	84.03	1.40	2.34	83.83	139.72	3.07	5.12	113.46	189.10	2.06	3.44	75.69	126.14	1.77	2.95	65.00	108.33	1.41	2.35	50.80	84.66	1.22	2.03	37.57	62.61	1.41	2.35	49.69	82.81
North	L22-L23	275	1.96	3.26	59.23	98.71	2.17	3.62	127.28	212.14	4.33	7.21	134.18	223.63	2.90	4.84	89.16	148.59	2.54	4.24	77.38	128.96	2.06	3.43	61.00	101.67	1.74	2.91	43.78	72.96	2.03	3.38	59.08	98.47
North	L23-L24	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L24-L25	277	55.96	93.27	2.50	4.17	150.36	250.60	3.00	4.99	118.23	197.06	5.35	8.91	80.55	134.25	3.63	6.04	70.02	116.70	3.17	5.28	61.62	102.70	2.76	4.60	48.85	81.42	2.39	3.98	59.13	98.56	2.76	4.60
North	L25-L26	278	48.67	81.11	1.65	2.75	87.58	145.96	1.94	3.24	104.49	174.16	3.56	5.93	70.41	117.36	2.40	4.00	60.99	101.65	2.08	3.46	56.36	93.94	1.85	3.09	44.19	73.65	1.64	2.73	53.45	89.09	1.85	3.09
North	L26-L27	279	58.23	97.05	3.05	5.08	104.18	173.64	3.75	6.25	126.30	210.49	6.73	11.22	84.81	141.36	4.50	7.50	74.70	124.49	3.94	6.57	69.76	116.27	3.49	5.82	64.53	107.54	2.98	4.96	76.00	126.66	3.52	5.87
North	L27-L28	280	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L28-L29	281	2.50	4.17	55.79	92.99	2.84	4.73	90.25	150.42	5.62	9.37	122.59	204.32	3.74	6.23	82.04	136.73	3.25	5.42	71.96	119.93	2.71	4.52	64.33	107.22	2.30	3.84	58.66	97.77	2.73	4.55	75.66	126.10
North	L29-L30	282	1.95	3.25	49.03	81.71	1.92	3.20	61.83	103.06	4.38	7.29	106.72	177.87	2.91	4.85	71.62	119.37	2.53	4.22	62.77	104.61	2.05	3.41	55.95	93.26	1.73	2.88	45.09	75.15	2.06	3.43	60.63	101.05
North	L30-L31	283	2.12	3.53	50.72	84.54	2.08	3.47	63.98	106.64	4.75	7.91	110.44	184.06	3.16	5.26	74.10	123.50	2.75	4.58	64.95	108.25	2.22	3.70	57.89	96.48	1.88	3.13	46.65	77.75	2.23	3.72	62.73	104.54
North	L31-L32	284	2.05	3.42	7.04	11.74	3.03	5.04	6.84	11.41	4.61	7.68	15.67	26.11	3.06	5.11	10.49	17.48	2.67	4.44	9.09	15.15	2.14	3.57	7.20	11.99	1.87	3.12	6.02	10.03	2.13	3.56	6.63	11.04
North	L32-L33	285	2.70	4.50	2.47	4.12	4.22	7.03	2.19	3.66	6.07	10.12	5.56	9.27	4.04	6.73	3.71	6.19	3.51	5.85	3.19	5.31	2.82	4.69	2.47	4.12	2.45	4.08	2.09	3.49	2.79	4.65	2.26	3.77
North	L33-L34	286	4.61	7.68	1.92	3.21	7.13	11.89	1.62	2.69	10.37	17.29	4.36	7.26	6.89	11.49	2.88	4.81	6.00	9.99	2.48	4.14	4.80	8.00	1.91	3.18	4.16	6.93	1.62	2.70	4.74	7.90	1.73	2.88
North	L34-L35	287	7.66	12.76	2.42	4.04	11.62	19.36	1.95	3.25	17.22	28.71	5.50	9.17	11.45	19.08	3.63	6.05	9.96	16.59	3.13	5.22	7.97	13.28	2.41	4.02	6.89	11.48	2.01	3.34	7.86	13.10	2.17	3.62
North	L35-L36	288	8.11	13.52	2.48	4.13	11.03	18.38	2.10	3.49	18.14	30.23	5.64	9.40	12.12	20.20	3.73	6.22	10.43	17.38	3.21	5.35	8.13	13.55	2.47	4.12	7.13	11.88	2.04	3.40	7.89	13.15	2.21	3.68
North	L36-L37	289	4.34	7.24	1.64	2.73	5.92	9.87	1.45	2.41	9.72	16.19	3.75	6.25	6.49	10.82	2.48	4.13	5.58	9.31	2.13	3.55	4.35	7.25	1.63	2.71	3.81	6.36	1.34	2.24	4.23	7.05	1.45	2.42
North	L37-L38	290	3.36	5.60	2.94	4.89	3.89	6.48	2.65	4.42	7.52	12.53	6.70	11.16	5.02	8.37	4.42	7.37	4.32	7.20	3.81	6.35	3.37	5.61	2.94	4.89	2.76	4.60	2.43	4.04	3.05	5.08	2.67	4.44
North	L38-L39	291	2.41	4.01	5.11	8.52	1.64	2.74	3.73	6.22	5.45	9.09	11.84	19.73	3.63	6.05	7.79	12.98	3.12	5.20	6.70	11.17	2.38	3.97	4.91	8.18	1.67	2.78	3.66	6.10	1.83	3.05	4.01	6.68
North	L39-L40	292	1.93	3.22	7.07	11.79	1.03	1.72	4.92	8.21	4.47	7.45	16.62	27.71	2.95	4.92	10.90	18.17	2.53	4.21	9.34	15.56	1.87	3.11	6.77	11.29	1.25	2.09	4.94	8.24	1.41	2.35	5.57	9.29
North	L40-L41	293	2.04	3.41	51.27	85.44	1.92	3.21	74.03	123.38	4.59	7.65	118.02	196.70	3.06	5.10	78.03	130.04	2.64	4.39	67.16	111.94	2.04	3.40	50.33	83.89	1.72	2.87	33.93	56.55	1.91	3.19	47.96	79.93
North	L41-L42	294	3.23	5.39	70.13	116.88	3.36	5.60	118.15	196.92	7.28	12.13	163.62	272.70	4.85	8.09	107.61	179.36	4.23	7.05	92.47	154.11	3.30	5.49	68.98	114.97	2.73	4.55	45.73	76.21	3.16	5.27	64.94	108.24
North	L42-L43	295	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L43-L44	296	73.33	122.22	3.50	5.84	133.70	222.83	3.78	6.29	152.03	253.38	7.68	12.80	103.54	172.57	5.17	8.61	90.69	151.14	4.51	7.52	84.59	140.99	3.72	6.21	63.43	105.71	3.17	5.29	82.88	138.13	3.64	6.07
North	L44-L45	297	50.74	84.56	1.62	2.71	108.18	180.29	1.81	3.02	109.94	183.24	3.55	5.92	73.87	123.12	2.38	3.97	64.15	106.92	2.06	3.43	54.82	91.37	1.72	2.87	43.10	71.83	1.51	2.52	53.36	88.93	1.71	2.85
North	L45-L46	298	49.31	82.18	1.68	2.81	94.69	157.82	1.87	3.12	108.25	180.42	3.73	6.21	72.64	121.07	2.49	4.15	62.55	104.25	2.17	3.61	52.63	87.72	1.80	2.99	39.27	65.45	1.57	2.62	47.77	79.62	1.78	2.97
North	L46-L47	299	63.85	106.41	3.27	5.45	102.88	171.47	3.66	6.11	137.84	229.73	7.37	12.28	92.80	154.67	4.89	8.15	82.00	136.66	4.25	7.09	73.30	122.17	3.52	5.86	52.11	86.85	2.96	4.94	64.22	107.03	3.42	5.70
North	L47-L48	300	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L48-L49	301	3.63	6.04	74.59	124.32	3.69	6.15	111.32	185.53	8.30	13.84	167.43	279.05	5.49	9.15	111.39	185.64	4.75	7.91	95.52	159.20	3.72	6.20	78.36	130.60	3.04	5.06	50.85	84.75	3.50	5.83	64.67	107.78
North	L49-L50	302	2.14	3.56	66.61	111.02	1.82	3.04	64.10	106.84	4.89	8.16	148.68	247.80	3.23	5.39	97.68	162.81	2.78	4.63	84.91	141.51	2.14	3.57	69.15	115.26	1.69	2.82	35.97	59.95	1.87	3.12	44.03	73.39
North	L50-L51	303	2.03	3.38	63.95	106.58	1.78	2.96	63.39	105.65	4.64	7.73	142.73	237.89	3.06	5.11	93.79	156.31	2.63	4.39	81.52	135.87	2.03	3.38	66.39	110.65	1.60	2.67	34.53	57.55	1.77	2.95	42.28	70.46
North	L51-L52	304	2.75	4.59	7.71	12.85	3.76	6.27	6.83	11.38	6.32	10.53	17.67	29.45	4.17	6.95	11.68	19.47	3.58	5.97	10.04	16.73	2.76	4.60	7.67	12.78	2.36	3.93	6.09	10.16	2.63	4.39	6.61	11.02
North	L52-L53	305	3.45	5.75	2.49	4.15	4.60	7.66	2.05	3.41	7.91	13.19	5.75	9.58	5.22	8.70	3.78	6.30	4.49	7.48	3.25	5.41	3.46	5.76	2.44	4.07	2.94	4.90	1.97	3.28	3.29	5.48	2.13	3.54
North	L53-L54	306	5.99	9.98	2.17	3.62	7.89	13.15	1.70	2.83	13.72	22.87	5.03	8.38	9.05	15.08	3.30	5.51	7.78	12.97	2.84	4.73	6.00	10.00	2.12	3.53	5.09	8.49	1.74	2.90	5.70	9.50	1.83	3.05
North	L54-L55	307	8.53	14.22	2.27	3.79	11.30	18.83	1.72	2.87	19.54	32.57	5.25	8.76	12.88	21.47	3.45	5.74	11.08	18.47	2.96	4.93	8.55	14.25	2.22	3.69	7.28	12.13	1.77	2.94	8.15	13.58	1.93	3.22
North	L55-L56	308	12.28	20.46	3.49	5.82	16.56	27.60	2.57	4.28	28.11	46.84	8.06	13.44	18.51	30.86	5.29	8.81	15.93	26.54	4.54	7.57	12.27	20.46	3.42	5.70	10.57	17.62	2.69	4.48	11.77	19.61	2.91	4.84
North	L56-L57	309	9.51	15.86	3.50	5.83	13.95	23.24	2.64	4.41	21.88	36.46	8.09	13.48	14.34	23.89	5.30	8.84	12.35	20.58	4.55	7.59	9.48	15.81	3.42	5.69	8.41	14.02	2.69	4.48	9.27	15.45	2.89	4.82
North	L57-L58	310	5.38	8.96	2.13	3.55	7.89	13.15	1.68	2.80	12.36	20.59	4.92	8.19	8.10	13.50	3.23	5.38	6.98	11.63	2.77	4.62	5.36	8.93	2.08	3.47	4.75	7.92	1.64	2.74	5.23	8.72	1.79	2.99
North	L58-L59	311	3.21	5.34	2.14	3.57	4.74	7.89	1.77	2.95	7.37	12.28	4.98	8.29	4.83	8.05	3.27	5.44	4.16	6.93	2.80	4.66	3.19	5.32	2.07	3.46	2.83	4.71	1.67	2.78	3.12	5.20	1.78	2.96
North	L59-L60	312	1.99	3.32	3.45	5.74	2.33	3.89	2.87	4.78	4.57	7.62	7.96	13.27	3.00	5.00	5.23	8.71	2.58	4.30	4.49	7.48	1.98	3.30	3.37	5.62	1.59	2.65	2.68	4.47	1.77	2.96	2.89	4.82
North	L60-L61	313	1.67	2.78	6.98	11.64	1.28	2.13	4.69	7.82	3.83	6.39	16.29	27.15	2.51	4.19	10.67	17.78	2.16	3.61	9.16	15.27	1.64	2.74	6.63	11.05	1.11	1.86	4.40	7.34	1.25	2.09	4.81	8.01
North	L61-L62	314	1.15	1.91	9.65	16.08	**0.66**	1.10	5.93	9.88	2.68	4.46	23.01	38.36	1.75	2.92	15.03	25.04	1.50	2.50	12.82	21.36	1.11	1.84	8.88	14.80	**0.72**	1.20	5.62	9.37	**0.80**	1.33	6.24	10.40
North	L62-L63	315	1.51	2.51	43.69	72.82	1.34	2.23	41.08	68.47	3.47	5.78	101.58	169.30	2.27	3.78	66.24	110.40	1.96	3.26	57.02	95.04	1.50	2.50	43.09	71.82	1.26	2.10	29.20	48.67	1.36	2.26	34.61	57.68
North	L63-L64	316	1.36	2.27	49.38	82.30	1.33	2.21	51.74	86.24	3.12	5.20	115.11	191.86	2.05	3.41	74.89	124.81	1.76	2.94	64.62	107.71	1.37	2.29	49.02	81.70	1.16	1.93	32.61	54.35	1.28	2.13	37.60	62.66
North	L64-L65	317	3.47	5.79	71.17	118.62	3.67	6.11	95.94	159.89	7.96	13.26	165.10	275.17	5.27	8.78	108.86	181.44	4.52	7.54	93.15	155.25	3.56	5.93	69.87	116.44	2.93	4.89	45.98	76.63	3.42	5.70	53.83	89.71
North	L65-L66	318	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L66-L67	319	56.52	94.20	3.20	5.33	113.38	188.96	3.32	5.54	127.75	212.91	7.21	12.01	83.55	139.25	4.77	7.95	72.67	121.11	4.12	6.87	64.22	107.03	3.44	5.73	46.32	77.21	2.89	4.82	62.68	104.47	3.36	5.60
North	L67-L68	320	48.57	80.95	1.68	2.80	110.03	183.38	1.77	2.95	107.08	178.46	3.77	6.28	70.40	117.34	2.47	4.12	61.25	102.08	2.14	3.57	52.49	87.48	1.78	2.97	41.05	68.42	1.57	2.62	51.85	86.42	1.78	2.96
North	L68-L69	321	52.32	87.20	1.74	2.90	85.84	143.07	1.83	3.05	117.00	195.00	3.89	6.49	75.84	126.39	2.55	4.25	65.80	109.67	2.21	3.68	55.06	91.77	1.84	3.06	40.45	67.41	1.62	2.70	49.17	81.95	1.83	3.05
North	L69-L70	322	69.65	116.08	3.56	5.93	143.79	239.64	3.80	6.33	155.48	259.13	7.99	13.32	103.58	172.63	5.31	8.85	89.37	148.95	4.58	7.63	75.09	125.16	3.80	6.33	48.57	80.95	3.18	5.30	61.81	103.01	3.69	6.15
North	L70-L71	323	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L71-L72	324	3.46	5.77	94.79	157.99	3.44	5.73	105.94	176.57	7.88	13.13	216.08	360.14	5.21	8.69	143.05	238.42	4.50	7.50	123.92	206.53	3.57	5.95	97.92	163.20	2.89	4.81	57.13	95.21	3.34	5.56	72.40	120.67
North	L72-L73	325	2.70	4.50	83.77	139.62	2.45	4.08	111.60	185.99	6.18	10.30	189.31	315.51	4.05	6.76	124.78	207.97	3.49	5.82	107.75	179.58	2.73	4.55	87.65	146.08	2.25	3.75	50.55	84.25	2.52	4.19	63.37	105.61

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	L73-L74	326	1.91	3.18	71.28	118.80	1.51	2.51	77.37	128.95	4.37	7.29	162.15	270.24	2.86	4.77	106.60	177.67	2.47	4.11	92.19	153.65	1.90	3.16	74.36	123.93	1.51	2.52	37.57	62.62	1.63	2.72	44.21	73.68
North	L74-L75	327	1.98	3.30	72.12	120.19	1.57	2.61	78.28	130.47	4.54	7.57	164.05	273.41	2.97	4.96	107.87	179.78	2.56	4.27	93.27	155.45	1.97	3.29	75.23	125.39	1.57	2.62	38.02	63.36	1.70	2.83	44.73	74.56
North	L75-L76	328	1.99	3.31	12.65	21.09	2.16	3.61	8.90	14.83	4.57	7.62	29.20	48.67	2.99	4.99	19.22	32.03	2.58	4.29	16.53	27.55	1.97	3.29	12.51	20.85	1.73	2.88	8.97	14.95	1.90	3.16	9.80	16.34
North	L76-L77	329	2.52	4.20	4.95	8.26	3.17	5.29	3.30	5.49	5.80	9.66	11.52	19.19	3.79	6.32	7.55	12.58	3.27	5.44	6.48	10.81	2.50	4.16	4.81	8.02	2.16	3.59	3.52	5.87	2.38	3.97	3.87	6.45
North	L77-L78	330	3.36	5.60	2.76	4.60	4.14	6.90	1.74	2.90	7.75	12.91	6.44	10.74	5.07	8.45	4.22	7.03	4.36	7.27	3.62	6.03	3.32	5.53	2.65	4.42	2.84	4.74	1.98	3.30	3.14	5.23	2.11	3.51
North	L78-L79	331	5.13	8.55	2.75	4.58	6.23	10.38	1.66	2.77	11.83	19.72	6.41	10.69	7.74	12.90	4.20	6.99	6.66	11.10	3.60	6.00	5.05	8.42	2.63	4.38	4.30	7.17	1.92	3.20	4.75	7.91	2.08	3.47
North	L79-L80	332	6.11	10.18	2.47	4.11	7.24	12.07	1.45	2.41	14.12	23.54	5.77	9.61	9.24	15.40	3.77	6.29	7.94	13.24	3.23	5.39	5.98	9.96	2.36	3.93	5.10	8.51	1.70	2.83	5.59	9.31	1.85	3.08
North	L80-L81	333	7.14	11.90	2.76	4.60	8.35	13.92	1.58	2.64	16.56	27.59	6.44	10.74	10.85	18.09	4.22	7.03	9.31	15.52	3.61	6.02	6.95	11.59	2.64	4.41	5.98	9.96	1.89	3.15	6.47	10.78	2.04	3.40
North	L81-L82	334	6.96	11.61	2.90	4.83	7.99	13.32	1.63	2.72	16.23	27.05	6.77	11.29	10.63	17.71	4.43	7.38	9.11	15.18	3.80	6.33	6.71	11.18	2.78	4.64	5.75	9.58	1.96	3.27	6.12	10.21	2.13	3.55
North	L82-L83	335	4.82	8.03	3.30	5.50	5.42	9.03	1.90	3.17	11.24	18.73	7.69	12.82	7.36	12.26	5.03	8.39	6.30	10.51	4.32	7.20	4.64	7.74	3.16	5.26	3.98	6.64	2.22	3.69	4.24	7.07	2.41	4.01
North	L83-L84	336	3.17	5.28	3.10	5.17	3.54	5.90	1.82	3.04	7.39	12.31	7.24	12.06	4.84	8.06	4.74	7.89	4.14	6.91	4.06	6.77	3.05	5.09	2.97	4.95	2.62	4.37	2.10	3.50	2.79	4.65	2.28	3.80
North	L84-L85	337	2.43	4.04	4.18	6.97	2.70	4.49	2.49	4.15	5.65	9.42	9.77	16.29	3.70	6.17	6.39	10.66	3.17	5.29	5.48	9.14	2.34	3.89	3.97	6.62	2.00	3.33	2.78	4.63	2.13	3.56	3.03	5.06
North	L85-L86	338	2.17	3.62	6.41	10.68	2.13	3.55	3.96	6.60	5.06	8.44	14.98	24.97	3.31	5.52	9.80	16.34	2.84	4.73	8.40	14.00	2.09	3.49	6.10	10.16	1.73	2.88	4.30	7.17	1.84	3.07	4.69	7.82
North	L86-L87	339	2.05	3.41	9.79	16.32	1.63	2.72	5.80	9.66	4.77	7.95	22.83	38.05	3.12	5.21	14.96	24.94	2.68	4.46	12.82	21.37	1.97	3.29	9.37	15.61	1.43	2.38	6.29	10.49	1.56	2.60	6.99	11.65
North	L87-L88	340	2.04	3.40	14.33	23.88	1.33	2.21	7.37	12.28	4.76	7.93	33.62	56.04	3.12	5.19	22.04	36.73	2.67	4.45	18.84	31.39	1.97	3.28	13.53	22.54	1.29	2.14	7.97	13.28	1.42	2.37	9.03	15.05
North	L88-L89	341	2.50	4.16	18.99	31.65	1.30	2.17	8.95	14.92	5.82	9.70	44.87	74.79	3.81	6.35	29.36	48.93	3.27	5.44	25.08	41.79	2.41	4.01	17.74	29.56	1.44	2.40	9.72	16.20	1.59	2.66	11.14	18.57
North	L89-L90	342	3.01	5.02	21.81	36.34	1.32	2.20	10.31	17.19	7.05	11.76	51.66	86.10	4.61	7.69	33.76	56.26	3.95	6.58	28.83	48.05	2.85	4.76	20.29	33.81	1.62	2.70	11.05	18.41	1.82	3.03	12.94	21.56
North	L90-L91	343	3.58	5.96	102.91	171.51	2.20	3.67	156.58	260.96	8.34	13.90	238.14	396.90	5.46	9.09	156.27	260.45	4.68	7.80	134.35	223.92	3.45	5.75	102.39	170.65	2.40	4.00	68.96	114.93	2.71	4.51	91.60	152.67
North	L91-L92	344	2.95	4.92	117.54	195.91	1.91	3.19	170.21	283.69	6.87	11.44	269.25	448.75	4.49	7.48	177.65	296.09	3.85	6.42	152.62	254.37	2.85	4.75	116.46	194.09	2.05	3.42	68.26	113.77	2.30	3.83	88.75	147.91
North	L92-L93	345	1.82	3.04	102.05	170.08	1.25	2.08	160.88	268.13	4.24	7.07	236.95	394.91	2.77	4.62	154.72	257.87	2.38	3.97	132.99	221.65	1.77	2.95	99.46	165.77	1.33	2.21	57.15	95.26	1.48	2.47	73.21	122.02
North	L93-L94	346	1.69	2.82	90.62	151.04	1.23	2.06	166.85	278.08	3.92	6.54	212.38	353.96	2.57	4.28	137.95	229.91	2.21	3.68	118.77	197.95	1.65	2.75	89.90	149.84	1.27	2.12	51.83	86.38	1.43	2.39	68.06	113.43
North	L94-L95	347	1.32	2.20	77.17	128.61	1.03	1.72	163.98	273.30	3.06	5.11	181.03	301.72	2.01	3.35	118.13	196.88	1.73	2.88	101.26	168.77	1.31	2.18	77.06	128.44	1.02	1.70	46.15	76.91	1.15	1.92	58.65	97.75
North	L95-L96	348	2.91	4.85	97.24	162.07	2.21	3.69	263.45	439.08	6.73	11.21	227.73	379.55	4.45	7.42	150.49	250.82	3.81	6.35	127.54	212.56	2.90	4.83	97.68	162.81	2.28	3.80	59.39	98.99	2.53	4.22	72.52	120.87
North	L96-L97	349	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L97-L98	350	63.17	105.28	2.22	3.70	99.90	166.50	2.11	3.52	146.90	244.83	5.09	8.48	96.82	161.36	3.37	5.62	82.47	137.46	2.89	4.82	65.26	108.76	2.25	3.75	42.56	70.93	1.83	3.05	51.48	85.81	2.03	3.38
North	L98-L99	351	61.57	102.61	1.81	3.02	110.10	183.50	1.75	2.92	142.83	238.04	4.15	6.92	92.69	154.49	2.73	4.55	80.20	133.66	2.35	3.92	62.86	104.76	1.84	3.06	43.21	72.02	1.54	2.57	53.07	88.45	1.71	2.86
North	L99-L100	352	67.03	111.72	1.91	3.18	105.50	175.83	1.79	2.98	153.91	256.52	4.35	7.25	100.57	167.62	2.85	4.75	86.61	144.35	2.46	4.10	67.56	112.59	1.93	3.22	47.54	79.23	1.64	2.74	56.73	94.56	1.80	3.00
North	L100-L101	353	66.90	111.50	1.90	3.17	124.37	207.28	1.77	2.95	152.94	254.91	4.34	7.23	99.52	165.86	2.84	4.74	86.04	143.39	2.45	4.08	67.72	112.87	1.93	3.21	47.65	79.41	1.64	2.73	57.52	95.86	1.80	3.00
North	L101-L102	354	61.50	102.51	1.82	3.04	122.79	204.65	1.71	2.85	139.36	232.26	4.17	6.95	91.30	152.17	2.74	4.56	78.64	131.06	2.36	3.93	62.24	103.73	1.84	3.06	42.70	71.16	1.55	2.58	52.68	87.80	1.72	2.87
North	L102-L103	355	60.08	100.13	2.10	3.50	131.63	219.38	2.00	3.33	136.74	227.90	4.81	8.02	90.35	150.59	3.18	5.30	78.47	130.78	2.75	4.58	62.14	103.56	2.13	3.54	40.56	67.61	1.73	2.89	48.82	81.37	1.92	3.19
North	L103-L104	356	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L104-L105	357	2.93	4.89	107.21	178.68	2.57	4.29	202.90	338.16	6.78	11.30	249.51	415.86	4.47	7.45	164.16	273.59	3.85	6.42	141.18	235.31	2.92	4.87	105.44	175.74	2.28	3.80	59.92	99.86	2.54	4.23	74.64	124.40
North	L105-L106	358	3.15	5.25	107.06	178.43	2.55	4.24	194.91	324.84	7.28	12.13	248.11	413.52	4.79	7.98	163.41	272.35	4.11	6.84	139.73	232.88	3.10	5.17	104.95	174.91	2.40	3.99	58.93	98.21	2.71	4.51	75.06	125.09
North	L106-L107	359	3.53	5.88	114.79	191.32	2.65	4.41	172.75	287.91	8.18	13.64	266.39	443.98	5.36	8.93	174.01	290.01	4.60	7.67	149.23	248.72	3.43	5.72	112.02	186.69	2.64	4.39	62.43	104.06	2.95	4.92	79.87	133.12
North	L107-L108	360	3.63	6.04	113.92	189.87	2.55	4.25	145.39	242.31	8.42	14.04	263.56	439.26	5.51	9.18	171.97	286.62	4.73	7.88	147.84	246.39	3.50	5.84	112.18	186.97	2.62	4.36	60.64	101.07	2.92	4.86	76.11	126.85
North	L108-L109	361	3.73	6.22	112.64	187.74	2.48	4.14	120.35	200.58	8.66	14.44	259.45	432.42	5.67	9.45	169.85	283.08	4.87	8.11	146.06	243.44	3.60	6.00	110.50	184.17	2.58	4.30	59.01	98.35	2.87	4.79	74.11	123.52
North	L109-L110	362	4.08	6.80	87.13	145.22	2.56	4.27	112.81	188.01	9.49	15.82	201.01	335.02	6.21	10.35	131.43	219.05	5.33	8.89	113.08	188.46	3.94	6.56	85.51	142.52	2.72	4.54	49.55	82.59	3.05	5.08	61.93	103.22
North	L110-L111	363	5.19	8.65	42.92	71.54	2.21	3.68	21.35	35.58	12.21	20.35	102.60	171.01	7.98	13.30	66.96	111.60	6.83	11.39	57.06	95.09	4.89	8.15	39.27	65.45	2.79	4.66	18.28	30.46	3.12	5.20	21.63	36.05
North	L111-L112	364	3.72	6.20	30.95	51.59	1.84	3.06	15.68	26.13	8.70	14.50	74.00	123.33	5.69	9.49	48.29	80.48	4.88	8.13	41.16	68.61	3.55	5.91	28.31	47.18	2.11	3.52	14.32	23.87	2.34	3.90	16.80	28.01
North	L112-L113	365	3.44	5.73	22.40	37.33	2.11	3.51	12.18	20.30	8.01	13.35	51.90	86.50	5.24	8.73	33.96	56.60	4.49	7.49	29.19	48.65	3.31	5.51	21.78	36.30	2.13	3.55	11.83	19.71	2.35	3.92	13.46	22.44
North	L113-L114	366	3.24	5.40	13.63	22.71	2.47	4.12	8.72	14.53	7.55	12.58	31.63	52.72	4.94	8.23	20.71	34.52	4.23	7.05	17.78	29.63	3.12	5.19	13.18	21.97	2.24	3.74	9.06	15.10	2.45	4.08	10.07	16.78
North	L114-L115	367	3.52	5.86	8.64	14.40	3.37	5.61	5.77	9.62	8.20	13.66	20.13	33.55	5.36	8.94	13.17	21.96	4.60	7.66	11.29	18.82	3.39	5.64	8.33	13.88	2.79	4.64	5.97	9.95	2.97	4.96	6.66	11.11
North	L115-L116	368	3.65	6.09	5.07	8.45	4.08	6.81	3.13	5.22	8.51	14.19	11.75	19.59	5.57	9.28	7.70	12.84	4.77	7.96	6.62	11.03	3.52	5.86	4.85	8.09	2.99	4.98	3.41	5.68	3.19	5.31	3.74	6.23
North	L116-L117	369	4.28	7.14	3.25	5.41	5.31	8.85	2.19	3.65	9.98	16.63	7.54	12.57	6.53	10.88	4.94	8.24	5.60	9.33	4.24	7.07	4.12	6.87	3.12	5.21	3.50	5.84	2.23	3.71	3.74	6.23	2.44	4.06
North	L117-L118	370	5.97	9.95	3.02	5.04	7.42	12.37	1.98	3.29	13.92	23.20	7.03	11.71	9.10	15.17	4.60	7.67	7.81	13.01	3.95	6.58	5.75	9.58	2.91	4.85	4.89	8.14	2.07	3.44	5.21	8.68	2.26	3.77
North	L118-L119	371	9.47	15.78	2.88	4.80	11.88	19.80	1.84	3.06	22.07	36.78	6.70	11.16	14.43	24.06	4.39	7.32	12.38	20.63	3.76	6.27	9.11	15.18	2.77	4.62	7.74	12.90	1.98	3.30	8.26	13.76	2.16	3.61
North	L119-L120	372	11.33	18.89	2.98	4.96	14.35	23.91	1.93	3.22	26.42	44.03	6.94	11.56	17.28	28.80	4.54	7.57	14.82	24.69	3.90	6.49	10.90	18.17	2.86	4.77	9.26	15.44	2.06	3.44	9.88	16.47	2.24	3.73
North	L120-L121	373	13.29	22.16	3.19	5.32	17.06	28.43	2.11	3.51	30.99	51.65	7.46	12.44	20.27	33.78	4.89	8.15	17.38	28.96	4.19	6.98	12.79	21.31	3.05	5.09	10.86	18.10	2.21	3.69	11.58	19.30	2.40	4.01
North	L121-L122	374	14.89	24.81	3.27	5.45	19.47	32.44	2.22	3.69	34.71	57.85	7.65	12.75	22.70	37.84	5.01	8.35	19.46	32.44	4.29	7.15	14.32	23.86	3.13	5.21	12.16	20.26	2.29	3.81	12.96	21.61	2.51	4.18
North	L122-L123	375	15.83	26.38	3.14	5.23	21.23	35.38	2.19	3.65	36.93	61.55	7.34	12.23	24.15	40.25	4.81	8.02	20.70	34.50	4.12	6.87	15.21	25.36	3.00	4.99	12.92	21.54	2.25	3.74	13.78	22.97	2.43	4.05
North	L123-L124	376	17.18	28.63	3.29	5.49	23.82	39.70	2.41	4.01	40.09	66.81	7.71	12.84	26.22	43.69	5.05	8.42	22.47	37.45	4.33	7.22	16.49	27.49	3.16	5.27	14.02	23.36	2.35	3.92	14.94	24.91	2.56	4.27
North	L124-L125	377	28.10	46.84	7.82	13.03	40.17	66.96	6.31	10.51	65.62	109.36	18.24	30.39	42.91	71.52	11.98	19.96	36.78	61.30	10.29	17.16	26.96	44.94	7.62	12.70	22.86	38.10	5.73	9.55	24.43	40.71	6.35	10.58
North	L125-L126	378	44.02	73.36	71.90	119.84	22.40	37.34	47.34	78.89	104.90	174.84	171.51	285.86	68.51	114.18	112.01	186.68	58.45	97.42	95.51	159.18	40.77	67.94	66.37	110.62	24.86	41.44	37.72	62.87	27.51	45.86	42.81	71.35
North	U0-U1	379	3.08	5.14	86.23	143.71	3.22	5.37	116.78	194.63	6.86	11.43	178.08	296.81	4.59	7.65	122.44	204.06	4.01	6.69	107.71	179.52	3.19	5.32	102.15	170.25	2.71	4.52	93.22	155.36	3.09	5.16	117.00	195.00
North	U1-U2	380	1.48	2.46	69.83	116.39	1.51	2.52	90.10	150.16	3.27	5.45	146.38	243.97	2.20	3.66	98.85	164.76	1.89	3.14	87.96	146.59	1.52	2.54	82.08	136.80	1.33	2.22	73.60	122.66	1.50	2.50	89.53	149.21
North	U2-U3	381	1.76	2.94	79.79	132.98	1.78	2.97	106.07	176.78	3.91	6.52	169.34	282.23	2.59	4.32	114.28	190.46	2.25	3.75	101.04	168.40	1.84	3.06	93.80	156.34	1.63	2.71	80.66	134.43	1.80	2.99	95.84	159.74
North	U3-U4	382	1.33	2.21	74.97	124.96	1.35	2.24	104.41	174.01	2.96	4.93	159.39	265.65	1.97	3.29	108.14	180.23	1.70	2.83	95.20	158.66	1.39	2.32	87.89	146.48	1.23	2.05	74.36	123.93	1.38	2.30	86.05	143.42
North	U4-U5	383	1.39	2.32	76.64	127.74	1.43	2.38	121.07	201.78	3.12	5.20	163.52	272.54	2.08	3.46	110.69	184.49	1.81	3.01	98.16	163.60	1.46	2.43	89.89	149.81	1.26	2.10	65.69	109.48	1.46	2.43	78.64	131.06
North	U5-U6	384	1.29	2.16	74.60	124.33	1.33	2.22	118.26	197.10	2.90	4.84	159.18	265.30	1.93	3.22	107.76	179.60	1.68	2.80	95.57	159.29	1.36	2.26	87.52	145.86	1.17	1.95	64.07	106.79	1.35	2.26	76.68	127.80
North	U6-U7	385	1.92	3.20	84.37	140.61	2.01	3.35	148.89	248.15	4.35	7.26	182.50	304.16	2.89	4.81	122.97	204.95	2.50	4.17	108.65	181.09	2.01	3.35	99.86	166.44	1.68	2.80	66.39	110.65	1.95	3.24	83.53	139.22
North	U7-U8	386	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U8-U9	387	77.22	128.70	2.57	4.28	133.06	221.77	2.44	4.06	174.46	290.77	5.87	9.79	115.81	193.01	3.89	6.48	100.59	167.65	3.36	5.60	82.25	137.08	2.62	4.37	54.64	91.06	2.17	3.62	60.22	100.36	2.37	3.95
North	U9-U10	388	80.17	133.62	2.43	4.04	135.82	226.37	2.10	3.49	181.24	302.06	5.55	9.26	120.27	200.45	3.67	6.12	104.47	174.11	3.18	5.30	83.20	138.66	2.46	4.10	49.98	83.29	1.98	3.30	59.28	98.79	2.17	3.62
North	U10-U11	389	14.34	23.90	2.28	3.79	12.86	21.44	2.25	3.75	32.27	53.79	5.21	8.69	21.52	35.86	3.45	5.75	18.74	31.23	2.98	4.97	14.45	24.08	2.26	3.77	11.99	19.99	1.98	3.30	13.17	21.95	2.24	3.73
North	U11-U12	390	5.74	9.57	2.08	3.47	4.85	8.09	2.63	4.38	12.94	21.56	4.77	7.94	8.63	14.39	3.15	5.25	7.41	12.35	2.72	4.54	5.71	9.52	2.07	3.45	4.82	8.04	1.82	3.03	5.20	8.67	2.32	3.86

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	U12-U13	391	3.53	5.88	2.62	4.36	2.86	4.76	4.35	7.25	7.99	13.31	5.99	9.98	5.29	8.82	3.96	6.60	4.55	7.59	3.42	5.70	3.50	5.83	2.60	4.34	2.98	4.96	2.29	3.82	3.17	5.28	3.24	5.41
North	U13-U14	392	2.48	4.14	3.03	5.05	1.93	3.22	6.52	10.86	5.63	9.39	6.93	11.55	3.71	6.19	4.58	7.64	3.21	5.35	3.96	6.60	2.47	4.11	3.02	5.03	2.06	3.43	2.66	4.44	2.22	3.71	3.57	5.95
North	U14-U15	393	2.12	3.54	3.54	5.91	1.59	2.65	5.96	9.94	4.84	8.06	8.03	13.39	3.19	5.31	5.32	8.87	2.75	4.58	4.60	7.67	2.13	3.54	3.55	5.92	1.74	2.89	3.12	5.20	1.92	3.20	3.79	6.32
North	U15-U16	394	2.12	3.54	3.54	5.90	1.59	2.65	5.96	9.94	4.84	8.06	8.03	13.39	3.19	5.31	5.32	8.87	2.75	4.58	4.60	7.67	2.13	3.54	3.55	5.92	1.74	2.89	3.12	5.20	1.92	3.20	3.79	6.32
North	U16-U17	395	2.23	3.71	3.24	5.41	1.76	2.94	4.82	8.03	5.07	8.45	7.29	12.15	3.36	5.60	4.84	8.07	2.89	4.81	4.17	6.96	2.21	3.69	3.28	5.46	1.83	3.05	2.94	4.90	1.98	3.30	3.30	5.50
North	U17-U18	396	2.69	4.49	2.41	4.02	2.30	3.83	3.57	5.95	6.13	10.22	5.42	9.03	4.06	6.77	3.60	6.00	3.50	5.83	3.10	5.17	2.69	4.48	2.44	4.06	2.25	3.75	2.17	3.62	2.41	4.02	2.45	4.09
North	U18-U19	397	4.53	7.56	2.10	3.50	4.36	7.27	2.95	4.92	10.25	17.08	4.72	7.86	6.81	11.34	3.13	5.22	5.88	9.80	2.70	4.50	4.60	7.67	2.12	3.53	3.84	6.40	1.88	3.13	4.20	7.00	2.13	3.55
North	U19-U20	398	10.62	17.70	2.20	3.67	11.44	19.06	2.44	4.06	23.82	39.69	4.95	8.24	15.89	26.48	3.28	5.47	13.83	23.05	2.83	4.72	11.07	18.44	2.22	3.70	9.36	15.59	1.96	3.26	10.31	17.19	2.23	3.72
North	U20-U21	399	31.36	52.26	2.17	3.62	27.52	45.86	2.07	3.45	68.04	113.40	4.84	8.06	45.65	76.08	3.23	5.39	40.17	66.94	2.79	4.64	31.41	52.34	2.23	3.71	23.66	39.44	1.81	3.02	26.64	44.40	2.17	3.61
North	U21-U22	400	18.69	31.15	3.52	5.86	20.43	34.04	3.70	6.17	40.44	67.40	7.84	13.06	27.28	45.46	5.24	8.73	24.07	40.11	4.55	7.58	21.72	36.19	3.70	6.16	18.31	30.52	2.94	4.90	21.98	36.63	3.67	6.11
North	U22-U23	401	8.90	14.83	10.61	17.68	12.42	20.70	12.58	20.97	19.89	33.15	23.73	39.56	13.17	21.95	15.71	26.19	11.40	19.00	13.60	22.67	9.00	14.99	10.71	17.85	7.09	11.81	8.44	14.07	9.59	15.99	11.53	19.21
North	U23-U24	402	1.34	2.23	15.63	26.06	1.72	2.86	19.42	32.37	2.87	4.78	34.99	58.32	1.95	3.24	23.16	38.59	1.69	2.81	20.07	33.44	1.44	2.41	16.29	27.14	1.27	2.11	12.41	20.68	1.49	2.49	17.11	28.51
North	U24-U25	403	1.30	2.16	28.62	47.69	1.55	2.59	37.49	62.49	2.79	4.66	63.88	106.46	1.87	3.11	42.42	70.70	1.63	2.71	36.68	61.14	1.43	2.38	30.23	50.38	1.30	2.17	24.21	40.35	1.45	2.41	30.70	51.17
North	U25-U26	404	1.30	2.16	28.61	47.68	1.55	2.59	37.50	62.49	2.79	4.66	63.85	106.42	1.87	3.11	42.41	70.68	1.63	2.71	36.67	61.12	1.43	2.38	30.21	50.36	1.30	2.17	24.21	40.35	1.45	2.41	30.68	51.13
North	U26-U27	405	1.49	2.48	40.18	66.96	1.80	3.01	64.04	106.73	3.22	5.37	87.56	145.93	2.17	3.61	58.77	97.95	1.88	3.13	51.00	84.99	1.65	2.75	43.07	71.78	1.48	2.47	36.18	60.31	1.67	2.78	46.41	77.35
North	U27-U28	406	2.99	4.98	64.40	107.33	3.75	6.25	122.12	203.53	6.62	11.03	142.52	237.53	4.42	7.36	95.18	158.64	3.87	6.44	83.12	138.54	3.40	5.66	71.70	119.51	2.89	4.82	53.80	89.66	3.41	5.69	73.29	122.15
North	U28-U29	407	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U29-U30	408	76.27	127.12	5.35	8.92	154.05	256.74	6.08	10.14	172.79	287.98	12.06	20.10	114.54	190.91	8.01	13.35	99.20	165.33	6.97	11.61	80.28	133.79	5.73	9.56	56.51	94.18	4.80	8.01	74.65	124.42	5.68	9.46
North	U30-U31	409	7.71	12.84	3.50	5.84	6.44	10.74	5.56	9.27	17.41	29.02	7.89	13.15	11.59	19.32	5.24	8.74	10.10	16.83	4.56	7.60	7.71	12.85	3.66	6.09	6.27	10.44	3.20	5.34	6.85	11.41	3.66	6.09
North	U31-U32	410	2.47	4.12	3.64	6.07	2.05	3.41	5.82	9.70	5.57	9.28	8.19	13.65	3.71	6.19	5.44	9.07	3.19	5.32	4.73	7.89	2.45	4.08	3.80	6.33	2.07	3.44	3.33	5.55	2.23	3.71	3.80	6.33
North	U32-U33	411	1.48	2.47	5.15	8.59	1.19	1.98	8.26	13.77	3.35	5.59	11.59	19.32	2.22	3.71	7.71	12.85	1.91	3.19	6.70	11.17	1.47	2.44	5.37	8.96	1.25	2.08	4.70	7.84	1.33	2.21	5.38	8.97
North	U33-U34	412	1.46	2.44	7.62	12.70	1.14	1.89	12.19	20.32	3.32	5.53	17.12	28.53	2.19	3.65	11.39	18.98	1.89	3.15	9.89	16.49	1.45	2.42	7.92	13.20	1.21	2.02	6.92	11.53	1.31	2.18	7.97	13.28
North	U34-U35	413	1.48	2.47	9.48	15.80	1.11	1.86	14.48	24.14	3.38	5.63	21.21	35.34	2.23	3.71	14.15	23.58	1.92	3.20	12.25	20.42	1.48	2.47	9.78	16.30	1.21	2.02	8.59	14.31	1.34	2.23	9.92	16.54
North	U35-U36	414	1.48	2.47	9.48	15.80	1.11	1.86	14.48	24.14	3.38	5.63	21.20	35.34	2.23	3.71	14.15	23.58	1.92	3.20	12.25	20.42	1.48	2.47	9.78	16.29	1.21	2.02	8.59	14.31	1.34	2.23	9.92	16.54
North	U36-U37	415	1.54	2.56	8.14	13.56	1.22	2.03	11.32	18.86	3.49	5.82	18.29	30.49	2.32	3.86	12.20	20.34	1.99	3.32	10.51	17.51	1.52	2.54	8.15	13.59	1.26	2.10	6.99	11.65	1.36	2.27	7.98	13.30
North	U37-U38	416	1.79	2.98	5.83	9.72	1.53	2.55	8.05	13.42	4.08	6.79	13.14	21.89	2.70	4.50	8.75	14.59	2.32	3.87	7.54	12.57	1.79	2.98	5.84	9.74	1.48	2.47	4.97	8.28	1.60	2.66	5.73	9.55
North	U38-U39	417	3.96	6.60	5.54	9.23	3.74	6.24	7.53	12.55	8.97	14.95	12.52	20.86	5.95	9.92	8.32	13.87	5.14	8.57	7.18	11.96	4.00	6.66	5.55	9.25	3.32	5.53	4.67	7.78	3.62	6.04	5.41	9.02
North	U39-U40	418	10.35	17.25	5.85	9.75	10.77	17.96	6.80	11.33	23.39	38.99	13.28	22.13	15.54	25.89	8.80	14.67	13.49	22.49	7.60	12.66	10.72	17.86	5.87	9.78	8.96	14.94	4.88	8.13	9.88	16.46	5.64	9.40
North	U40-U41	419	26.64	44.40	6.37	10.62	19.36	32.27	5.37	8.95	59.02	98.37	14.57	24.28	39.37	65.62	9.64	16.07	34.40	57.34	8.30	13.84	26.87	44.78	6.45	10.76	19.64	32.73	5.07	8.45	21.72	36.20	5.95	9.92
North	U41-U42	420	18.59	30.99	23.98	39.97	16.51	27.52	22.82	38.03	41.30	68.83	52.68	87.81	27.39	45.64	34.86	58.09	23.68	39.47	30.33	50.56	19.50	32.51	25.11	41.84	14.17	23.62	19.17	31.94	19.18	31.97	27.09	45.15
North	U42-U43	421	2.49	4.15	27.06	45.10	2.83	4.71	31.20	52.00	5.45	9.09	59.96	99.94	3.67	6.12	39.96	66.61	3.19	5.32	34.68	57.80	2.62	4.37	29.92	49.87	2.17	3.61	20.74	34.56	2.59	4.32	34.20	57.00
North	U43-U44	422	1.40	2.33	39.07	65.11	1.53	2.55	48.55	80.91	3.06	5.11	86.15	143.59	2.05	3.42	57.39	95.66	1.77	2.95	49.88	83.13	1.48	2.46	41.66	69.43	1.28	2.14	29.91	49.85	1.48	2.47	46.90	78.16
North	U44-U45	423	1.18	1.97	45.81	76.34	1.32	2.19	65.12	108.53	2.62	4.36	100.70	167.83	1.73	2.88	67.13	111.88	1.50	2.50	58.35	97.25	1.29	2.16	49.52	82.54	1.16	1.93	36.73	61.21	1.28	2.14	50.86	84.76
North	U45-U46	424	1.18	1.97	45.81	76.35	1.32	2.19	65.12	108.54	2.62	4.36	100.69	167.81	1.73	2.88	67.11	111.85	1.50	2.50	58.34	97.24	1.29	2.16	49.53	82.56	1.16	1.93	36.72	61.21	1.28	2.14	50.84	84.74
North	U46-U47	425	1.36	2.27	48.70	81.17	1.57	2.62	89.52	149.20	3.01	5.02	106.12	176.87	2.01	3.35	71.03	118.39	1.75	2.92	61.63	102.72	1.45	2.42	53.02	88.37	1.27	2.11	39.24	65.40	1.45	2.42	56.95	94.91
North	U47-U48	426	2.90	4.83	66.54	110.90	3.41	5.69	142.20	236.99	6.54	10.89	144.26	240.44	4.34	7.23	96.97	161.62	3.77	6.28	85.50	142.51	3.11	5.19	76.93	128.21	2.63	4.38	55.60	92.66	3.04	5.07	77.36	128.93
North	U48-U49	427	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U49-U50	428	77.11	128.51	5.98	9.97	184.49	307.48	6.28	10.47	171.24	285.41	13.70	22.83	113.73	189.56	9.06	15.09	98.19	163.65	7.83	13.05	82.73	137.88	6.14	10.24	57.02	95.03	5.08	8.46	76.01	126.68	5.82	9.71
North	U50-U51	429	9.99	16.64	5.50	9.16	7.54	12.57	7.65	12.75	23.15	38.59	12.61	21.01	15.25	25.41	8.32	13.87	13.12	21.86	7.15	11.92	9.71	16.19	5.50	9.17	7.48	12.47	4.78	7.96	8.10	13.50	5.32	8.86
North	U51-U52	430	3.21	5.34	5.57	9.29	2.49	4.16	7.86	13.10	7.43	12.38	12.78	21.30	4.89	8.15	8.43	14.05	4.19	6.99	7.25	12.08	3.13	5.21	5.58	9.30	2.51	4.18	4.84	8.06	2.70	4.50	5.39	8.98
North	U52-U53	431	1.43	2.38	6.45	10.75	1.08	1.80	8.97	14.95	3.30	5.50	14.77	24.61	2.17	3.62	9.74	16.24	1.86	3.10	8.38	13.96	1.39	2.31	6.46	10.77	1.14	1.90	5.60	9.33	1.20	1.99	6.25	10.41
North	U53-U54	432	1.58	2.63	9.57	15.95	1.16	1.94	13.34	22.23	3.65	6.09	21.90	36.49	2.40	3.99	14.44	24.07	2.06	3.43	12.42	20.70	1.54	2.56	9.59	15.99	1.23	2.04	8.30	13.83	1.34	2.23	9.30	15.50
North	U54-U55	433	1.59	2.64	11.40	18.99	1.14	1.89	16.19	26.98	3.66	6.11	26.07	43.44	2.40	4.00	17.18	28.63	2.06	3.44	14.78	24.63	1.55	2.59	11.41	19.01	1.22	2.04	9.92	16.54	1.32	2.20	11.14	18.56
North	U55-U56	434	1.88	3.13	11.83	19.71	1.31	2.19	17.21	28.68	4.34	7.24	27.19	45.31	2.85	4.75	17.82	29.70	2.44	4.07	15.35	25.58	1.85	3.08	11.78	19.63	1.47	2.45	10.28	17.13	1.56	2.61	11.49	19.15
North	U56-U57	435	1.78	2.97	11.57	19.29	1.25	2.08	16.84	28.06	4.12	6.86	26.60	44.34	2.70	4.50	17.44	29.06	2.32	3.86	15.02	25.03	1.75	2.92	11.52	19.21	1.39	2.32	10.06	16.76	1.48	2.47	11.24	18.74
North	U57-U58	436	1.55	2.59	8.75	14.58	1.13	1.88	12.75	21.25	3.59	5.99	20.12	33.53	2.36	3.93	13.19	21.98	2.02	3.37	11.36	18.93	1.51	2.52	8.71	14.52	1.19	1.99	7.55	12.58	1.28	2.14	8.50	14.16
North	U58-U59	437	1.72	2.87	6.61	11.01	1.31	2.18	9.67	16.12	3.99	6.65	15.20	25.33	2.62	4.37	9.96	16.60	2.25	3.75	8.58	14.30	1.68	2.80	6.58	10.97	1.32	2.20	5.64	9.41	1.45	2.41	6.41	10.69
North	U59-U60	438	1.82	3.03	4.10	6.83	1.46	2.44	6.05	10.09	4.20	7.00	9.43	15.72	2.76	4.60	6.18	10.30	2.37	3.94	5.32	8.87	1.77	2.95	4.08	6.80	1.43	2.38	3.47	5.78	1.52	2.53	3.97	6.62
North	U60-U61	439	3.11	5.18	2.61	4.35	2.76	4.60	3.88	6.46	7.15	11.92	6.01	10.01	4.71	7.84	3.94	6.56	4.04	6.74	3.39	5.65	3.06	5.11	2.60	4.33	2.47	4.12	2.18	3.63	2.64	4.41	2.53	4.21
North	U61-U62	440	8.09	13.49	1.94	3.23	7.89	13.15	2.40	3.99	18.43	30.71	4.46	7.43	12.16	20.27	2.92	4.87	10.51	17.52	2.51	4.19	8.15	13.58	1.93	3.21	6.59	10.99	1.59	2.65	7.13	11.89	1.87	3.12
North	U62-U63	441	42.59	70.98	4.95	8.25	25.51	42.52	4.09	6.81	97.42	162.37	11.38	18.97	63.95	106.59	7.49	12.49	55.26	92.10	6.44	10.73	43.76	72.93	5.01	8.36	28.82	48.03	3.96	6.59	31.63	52.72	4.51	7.51
North	U63-U64	442	28.61	47.69	5.69	9.48	18.19	30.31	4.69	7.81	63.84	106.39	13.05	21.76	42.51	70.86	8.60	14.33	36.87	61.45	7.39	12.32	31.32	52.20	5.78	9.63	20.80	34.67	4.37	7.29	22.84	38.06	5.04	8.40
North	U64-U65	443	16.42	27.37	18.60	31.00	12.97	21.61	12.80	21.33	37.33	62.21	42.14	70.23	24.51	40.85	27.68	46.14	21.10	35.16	23.85	39.74	16.46	27.44	18.87	31.45	11.35	18.92	13.27	22.12	14.09	23.49	15.81	26.35
North	U65-U66	444	1.98	3.31	19.46	32.43	2.18	3.64	15.06	25.10	4.47	7.46	44.02	73.37	2.95	4.92	29.07	48.45	2.55	4.26	25.04	41.74	2.11	3.52	20.19	33.64	1.72	2.86	13.48	22.46	2.04	3.40	16.64	27.73
North	U66-U67	445	1.14	1.90	29.01	48.35	1.23	2.05	25.19	41.98	2.57	4.28	65.42	109.04	1.68	2.80	43.23	72.06	1.46	2.43	37.23	62.05	1.20	2.00	30.04	50.06	1.05	1.74	20.78	34.63	1.23	2.05	26.33	43.88
North	U67-U68	446	1.40	2.33	43.19	71.98	1.44	2.41	40.58	67.63	3.13	5.21	97.16	161.93	2.05	3.42	63.93	106.54	1.78	2.96	55.23	92.04	1.53	2.55	45.05	75.09	1.36	2.27	32.23	53.71	1.54	2.57	40.67	67.78
North	U68-U69	447	1.40	2.33	43.17	71.96	1.44	2.41	40.59	67.65	3.13	5.21	97.13	161.88	2.06	3.43	63.90	106.50	1.78	2.96	55.22	92.03	1.53	2.55	45.03	75.05	1.36	2.27	32.27	53.78	1.54	2.57	40.75	67.92
North	U69-U70	448	1.62	2.70	49.29	82.15	1.76	2.94	56.59	94.32	3.62	6.04	110.08	183.47	2.37	3.96	71.78	119.63	2.06	3.43	62.20	103.67	1.70	2.84	51.29	85.48	1.49	2.49	37.80	62.99	1.72	2.87	49.82	83.03
North	U70-U71	449	3.15	5.25	70.65	117.75	3.48	5.79	118.22	197.04	7.09	11.81	157.24	262.06	4.71	7.84	104.82	174.69	4.06	6.76	90.25	150.41	3.35	5.59	75.78	126.31	2.81	4.68	53.48	89.13	3.25	5.42	72.22	120.37
North	U71-U72	450	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U72-U73	451	82.40	137.33	5.56	9.27	108.52	180.86	5.73	9.56	187.45	312.42	12.67	21.12	124.15	206.92	8.38	13.97	107.38	178.96	7.24	12.06	85.29	142.15	5.73	9.55	58.18	96.96	4.74	7.91	72.63	121.05	5.42	9.03
North	U73-U74	452	78.48	130.79	4.72	7.86	141.29	235.48	4.40	7.33	178.30	297.17	10.78	17.97	117.70	196.16	7.08	11.80	100.84	168.07	6.10	10.16	79.17	131.96	4.75	7.91	55.05	91.75	4.02	6.70	67.67	112.79	4.46	7.43
North	U74-U75	453	11.52	19.21	2.54	4.23	6.66	11.10	2.95	4.92	26.86	44.76	5.83	9.72	17.70	29.51	3.82	6.36	15.14	25.24	3.29	5.48	11.11	18.51	2.52	4.20	7.78	12.96	2.21	3.68	8.53	14.22	2.43	4.06
North	U75-U76	454	4.77	7.95	3.48	5.81	2.82	4.70	4.52	7.54	11.14	18.57	8.01	13.35	7.31	12.18	5.24	8.73	6.27	10.45	4.51	7.52	4.61	7.68	3.46	5.76	3.33	5.55	3.01	5.01	3.61	6.02	3.32	5.53
North	U76-U77	455	2.61	4.35	4.39	7.31	1.51	2.51	5.55	9.25	6.09	10.16	10.10	16.84	3.99	6.65	6.61	11.02	3.42	5.70	5.69	9.48	2.50	4.16	4.34	7.23	1.84	3.07	3.76	6.26	1.96	3.27	4.14	6.90

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	U77-U78	456	2.15	3.58	5.98	9.97	1.22	2.03	7.49	12.48	5.02	8.37	13.79	22.98	3.28	5.47	9.02	15.04	2.82	4.69	7.76	12.94	2.05	3.42	5.91	9.85	1.48	2.47	5.10	8.50	1.61	2.68	5.61	9.35
North	U78-U79	457	2.16	3.60	7.68	12.81	1.20	2.00	9.35	15.58	5.05	8.41	17.75	29.58	3.30	5.50	11.61	19.35	2.83	4.71	9.98	16.63	2.06	3.43	7.54	12.56	1.47	2.45	6.53	10.88	1.61	2.69	7.14	11.89
North	U79-U80	458	2.02	3.37	8.33	13.88	1.10	1.84	9.70	16.17	4.73	7.88	19.30	32.17	3.09	5.15	12.63	21.05	2.65	4.42	10.85	18.08	1.94	3.23	8.12	13.54	1.38	2.30	7.09	11.82	1.49	2.49	7.68	12.80
North	U80-U81	459	2.34	3.90	8.24	13.73	1.25	2.09	9.13	15.21	5.47	9.12	19.21	32.02	3.58	5.96	12.57	20.94	3.07	5.11	10.77	17.96	2.25	3.75	7.93	13.22	1.58	2.63	6.77	11.29	1.72	2.86	7.23	12.04
North	U81-U82	460	2.31	3.84	6.68	11.14	1.22	2.03	7.40	12.34	5.38	8.97	15.58	25.97	3.52	5.87	10.19	16.99	3.02	5.03	8.74	14.57	2.22	3.69	6.43	10.72	1.54	2.57	5.49	9.16	1.69	2.81	5.86	9.77
North	U82-U83	461	2.25	3.75	6.59	10.99	1.19	1.98	7.31	12.18	5.26	8.76	15.38	25.63	3.44	5.73	10.06	16.76	2.95	4.91	8.62	14.37	2.16	3.61	6.35	10.58	1.51	2.51	5.42	9.04	1.65	2.74	5.78	9.64
North	U83-U84	462	2.43	4.04	5.25	8.75	1.31	2.18	5.82	9.70	5.66	9.43	12.24	20.41	3.70	6.17	8.01	13.35	3.18	5.29	6.87	11.45	2.32	3.87	5.05	8.42	1.63	2.71	4.32	7.20	1.77	2.94	4.61	7.68
North	U84-U85	463	2.61	4.35	3.77	6.28	1.46	2.43	4.18	6.96	6.09	10.14	8.78	14.64	3.98	6.64	5.75	9.58	3.42	5.69	4.93	8.21	2.49	4.15	3.63	6.04	1.76	2.93	3.10	5.16	1.91	3.19	3.30	5.51
North	U85-U86	464	3.62	6.04	3.01	5.01	2.12	3.54	3.33	5.56	8.46	14.10	7.01	11.68	5.53	9.22	4.58	7.64	4.74	7.91	3.93	6.55	3.46	5.77	2.89	4.82	2.46	4.09	2.47	4.12	2.69	4.48	2.64	4.40
North	U86-U87	465	5.61	9.35	2.61	4.35	3.50	5.83	2.83	4.72	13.09	21.81	6.09	10.15	8.55	14.26	3.98	6.64	7.34	12.23	3.42	5.69	5.37	8.95	2.51	4.19	3.87	6.45	2.15	3.58	4.20	7.01	2.29	3.82
North	U87-U88	466	9.36	15.61	2.54	4.23	6.14	10.24	2.35	3.91	21.79	36.31	5.91	9.86	14.25	23.75	3.87	6.45	12.23	20.39	3.32	5.53	9.00	15.00	2.44	4.07	6.69	11.15	2.08	3.47	7.16	11.94	2.23	3.71
North	U88-U89	467	16.59	27.65	2.49	4.16	11.33	18.88	1.97	3.29	38.45	64.08	5.82	9.69	25.18	41.97	3.80	6.34	21.64	36.06	3.26	5.44	16.13	26.88	2.40	4.00	12.04	20.06	1.91	3.18	13.16	21.93	2.09	3.48
North	U89-U90	468	40.43	67.39	3.14	5.23	29.08	48.47	2.12	3.53	93.12	155.20	7.32	12.20	61.35	102.25	4.79	7.98	52.73	87.88	4.10	6.84	40.01	66.68	3.02	5.03	24.14	40.23	2.23	3.72	26.87	44.79	2.47	4.11
North	U90-U91	469	84.74	141.23	2.95	4.92	77.73	129.55	1.87	3.12	197.39	328.98	6.88	11.47	128.91	214.85	4.50	7.50	110.89	184.82	3.86	6.44	81.84	136.40	2.84	4.74	37.23	62.05	1.99	3.31	44.69	74.49	2.22	3.69
North	U91-U92	470	77.34	128.90	2.40	4.01	81.12	135.20	1.62	2.70	180.50	300.84	5.60	9.33	117.77	196.28	3.66	6.10	101.25	168.75	3.15	5.24	75.10	125.17	2.33	3.88	36.35	60.58	1.70	2.84	44.00	73.33	1.90	3.17
North	U92-U93	471	74.04	123.40	2.50	4.17	86.88	144.80	1.80	3.00	172.87	288.12	5.82	9.70	112.91	188.19	3.81	6.35	96.94	161.57	3.27	5.45	72.54	120.90	2.44	4.07	38.32	63.86	1.86	3.09	46.57	77.61	2.09	3.48
North	U93-U94	472	66.78	111.31	2.28	3.80	88.87	148.12	1.75	2.92	155.95	259.91	5.29	8.82	102.18	170.30	3.47	5.79	87.46	145.76	2.98	4.97	66.15	110.24	2.26	3.76	36.51	60.84	1.73	2.89	45.72	76.19	1.96	3.27
North	U94-U95	473	67.41	112.36	2.73	4.55	107.28	178.79	2.06	3.44	157.17	261.95	6.31	10.52	103.92	173.21	4.17	6.96	88.23	147.05	3.57	5.96	66.90	111.50	2.71	4.52	37.55	62.59	2.12	3.53	46.30	77.16	2.36	3.93
North	U95-U96	474	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U96-U97	475	2.13	3.54	68.25	113.76	2.01	3.35	90.25	150.42	4.89	8.14	158.27	263.78	3.24	5.39	104.58	174.31	2.77	4.62	89.01	148.35	2.15	3.58	69.35	115.58	1.74	2.90	42.25	70.42	1.92	3.20	50.49	84.15
North	U97-U98	476	1.62	2.69	60.40	100.67	1.55	2.59	80.01	133.35	3.70	6.17	139.84	233.07	2.43	4.05	91.32	152.20	2.09	3.49	78.65	131.08	1.63	2.72	61.18	101.96	1.36	2.27	39.30	65.49	1.51	2.51	45.83	76.39
North	U98-U99	477	1.43	2.38	57.42	95.70	1.34	2.23	67.73	112.88	3.26	5.43	132.41	220.68	2.13	3.55	86.51	144.18	1.84	3.06	74.67	124.44	1.44	2.40	57.05	95.09	1.22	2.03	39.09	65.14	1.33	2.21	43.24	72.06
North	U99-U100	478	1.41	2.35	52.62	87.70	1.32	2.21	59.07	98.45	3.20	5.34	120.42	200.71	2.10	3.51	79.02	131.70	1.81	3.02	67.98	113.29	1.45	2.42	51.97	86.61	1.21	2.01	34.22	57.04	1.37	2.28	41.07	68.45
North	U100-U101	479	1.41	2.35	52.64	87.74	1.33	2.21	59.15	98.58	3.21	5.34	120.48	200.80	2.10	3.51	79.06	131.76	1.81	3.02	68.01	113.34	1.45	2.42	51.99	86.66	1.21	2.01	34.23	57.05	1.37	2.28	41.08	68.47
North	U101-U102	480	1.40	2.33	43.88	73.13	1.31	2.18	45.37	75.62	3.18	5.30	100.88	168.14	2.08	3.47	66.44	110.73	1.80	2.99	56.90	94.83	1.41	2.36	43.62	72.71	1.20	1.99	30.02	50.03	1.31	2.19	34.73	57.89
North	U102-U103	481	1.53	2.56	33.23	55.39	1.46	2.43	32.77	54.62	3.51	5.84	76.16	126.93	2.30	3.83	50.12	83.53	1.98	3.30	43.00	71.67	1.55	2.58	33.07	55.11	1.30	2.17	23.78	39.64	1.43	2.38	26.19	43.65
North	U103-U104	482	1.86	3.10	19.93	33.22	1.85	3.09	18.80	31.33	4.24	7.06	45.67	76.12	2.80	4.67	30.09	50.15	2.41	4.02	25.79	42.99	1.90	3.16	19.80	33.01	1.56	2.59	14.70	24.50	1.72	2.87	16.62	27.70
North	U104-U105	483	19.88	33.13	19.62	32.71	22.49	37.48	16.36	27.26	45.39	75.64	45.05	75.09	29.78	49.63	29.56	49.26	25.62	42.70	25.39	42.32	19.82	33.04	19.36	32.27	16.05	26.75	15.39	25.65	18.52	30.86	17.51	29.19
North	U105-U106	484	32.32	53.86	4.35	7.26	40.53	67.55	3.60	6.01	71.97	119.95	10.18	16.96	47.85	79.74	6.67	11.11	41.51	69.19	5.71	9.52	33.45	55.74	4.25	7.08	33.63	56.04	3.37	5.61	37.45	62.41	3.82	6.36
North	U106-U107	485	65.34	108.90	4.41	7.35	65.71	109.51	3.43	5.71	145.85	243.09	10.27	17.11	96.86	161.43	6.74	11.23	83.96	139.94	5.78	9.64	68.43	114.06	4.30	7.16	58.56	97.59	3.40	5.67	65.84	109.74	3.86	6.43
North	U107-U108	486	96.92	161.54	4.74	7.89	79.23	132.05	3.42	5.71	219.32	365.53	11.01	18.36	146.34	243.90	7.22	12.04	126.28	210.46	6.19	10.32	102.30	170.50	4.59	7.65	75.18	125.30	3.58	5.97	85.70	142.84	3.93	6.56
North	U108-U109	487	124.78	207.97	5.03	8.39	83.24	138.73	3.39	5.65	284.97	474.94	11.73	19.54	187.83	313.05	7.67	12.78	162.29	270.49	6.58	10.97	133.45	222.42	4.85	8.08	84.36	140.60	3.65	6.09	96.88	161.47	4.00	6.66
North	U109-U110	488	138.47	230.78	5.57	9.28	78.02	130.03	3.49	5.81	327.58	545.97	12.98	21.64	214.18	356.97	8.49	14.14	183.69	306.16	7.28	12.14	128.78	214.63	5.34	8.90	82.49	137.49	3.85	6.41	91.90	153.16	4.20	7.00
North	U110-U111	489	42.51	70.85	5.72	9.53	32.73	54.54	3.87	6.46	97.71	162.85	13.34	22.24	64.23	107.05	8.73	14.54	55.25	92.08	7.48	12.47	42.64	71.06	5.48	9.13	31.89	53.16	4.05	6.75	35.16	58.60	4.38	7.30
North	U111-U112	490	20.97	34.95	4.99	8.31	15.81	26.35	3.99	6.65	48.41	80.69	11.64	19.39	31.81	53.01	7.61	12.69	27.37	45.61	6.53	10.88	20.44	34.07	4.79	7.98	15.63	26.05	3.77	6.28	17.12	28.53	4.07	6.78
North	U112-U113	491	11.86	19.77	4.76	7.94	8.10	13.50	4.61	7.69	27.40	45.67	11.11	18.52	17.99	29.98	7.27	12.12	15.45	25.76	6.23	10.39	11.52	19.20	4.57	7.62	8.62	14.37	3.90	6.50	9.40	15.66	4.15	6.92
North	U113-U114	492	6.40	10.66	4.28	7.13	4.11	6.86	4.68	7.79	14.85	24.75	9.98	16.63	9.74	16.24	6.53	10.89	8.36	13.93	5.60	9.33	6.16	10.26	4.11	6.85	4.44	7.39	3.51	5.84	4.91	8.18	3.73	6.22
North	U114-U115	493	3.57	5.94	4.43	7.38	2.12	3.54	4.84	8.07	8.30	13.84	10.31	17.19	5.44	9.07	6.75	11.25	4.67	7.78	5.79	9.65	3.41	5.69	4.25	7.08	2.43	4.04	3.63	6.04	2.64	4.40	3.86	6.44
North	U115-U116	494	2.62	4.36	5.84	9.74	1.49	2.49	6.39	10.66	6.10	10.16	13.61	22.69	4.00	6.66	8.91	14.85	3.43	5.71	7.64	12.73	2.51	4.18	5.61	9.35	1.78	2.97	4.79	7.98	1.93	3.22	5.10	8.50
North	U116-U117	495	2.16	3.60	7.18	11.97	1.32	2.21	8.70	14.50	5.03	8.38	16.74	27.89	3.29	5.49	10.95	18.26	2.83	4.71	9.39	15.65	2.07	3.45	6.90	11.50	1.47	2.45	5.89	9.81	1.60	2.67	6.28	10.46
North	U117-U118	496	1.97	3.29	9.01	15.02	1.18	1.97	10.91	18.19	4.59	7.66	21.00	35.00	3.01	5.02	13.74	22.91	2.58	4.30	11.78	19.64	1.90	3.16	8.66	14.43	1.34	2.24	7.39	12.32	1.48	2.47	7.88	13.13
North	U118-U119	497	1.97	3.29	9.02	15.03	1.18	1.97	10.91	18.19	4.60	7.66	21.01	35.02	3.01	5.02	13.76	22.93	2.58	4.30	11.79	19.66	1.90	3.17	8.67	14.44	1.34	2.24	7.40	12.33	1.48	2.47	7.88	13.14
North	U119-U120	498	1.95	3.25	11.07	18.45	1.19	1.98	13.42	22.36	4.54	7.57	25.79	42.99	2.98	4.96	16.89	28.14	2.55	4.26	14.48	24.13	1.88	3.13	10.64	17.73	1.34	2.23	9.08	15.14	1.45	2.42	9.68	16.14
North	U120-U121	499	2.02	3.37	13.27	22.12	1.26	2.09	16.15	26.92	4.72	7.87	30.91	51.52	3.09	5.16	20.24	33.73	2.65	4.42	17.35	28.92	1.94	3.23	12.76	21.26	1.40	2.33	10.89	18.15	1.51	2.52	11.61	19.35
North	U121-U122	500	2.15	3.58	15.53	25.88	1.36	2.26	19.05	31.75	5.02	8.37	36.16	60.27	3.29	5.48	23.67	39.46	2.82	4.70	20.30	33.84	2.05	3.41	14.93	24.88	1.48	2.47	12.75	21.24	1.60	2.67	13.59	22.65
North	U122-U123	501	2.12	3.53	17.23	28.72	1.36	2.27	21.41	35.69	4.96	8.27	40.16	66.93	3.25	5.41	26.26	43.77	2.78	4.64	22.52	37.54	2.01	3.36	16.59	27.65	1.46	2.44	14.11	23.52	1.60	2.66	15.05	25.09
North	U123-U124	502	2.23	3.71	19.09	31.82	1.46	2.43	24.24	40.40	5.24	8.73	44.50	74.16	3.43	5.72	29.10	48.50	2.94	4.90	24.95	41.59	2.12	3.53	18.38	30.63	1.57	2.61	15.63	26.05	1.68	2.81	16.67	27.79
North	U124-U125	503	2.77	4.62	22.19	36.98	1.85	3.08	28.94	48.23	6.53	10.89	51.70	86.17	4.28	7.13	33.81	56.36	3.66	6.11	29.00	48.33	2.63	4.38	21.35	35.58	1.91	3.18	18.15	30.26	2.06	3.43	19.37	32.28
North	U125-U126	504	7.17	11.95	38.98	64.96	4.61	7.68	49.74	82.91	16.97	28.29	90.84	151.40	11.10	18.50	59.41	99.02	9.49	15.82	50.95	84.91	6.74	11.24	37.51	62.52	4.85	8.08	31.89	53.15	5.27	8.78	34.02	56.70
South	U0-L0	505	0.80	1.33	55.29	92.15	0.75	1.25	122.80	204.67	1.78	2.97	115.31	192.18	1.19	1.99	78.97	131.62	1.04	1.74	71.01	118.35	0.80	1.33	62.64	104.40	0.67	1.12	48.67	81.12	0.75	1.25	61.36	102.26
South	U1-L1	506	1.50	2.49	76.59	127.65	1.38	2.30	178.09	296.82	3.33	5.55	161.24	268.74	2.23	3.71	109.92	183.19	1.95	3.25	96.60	160.99	1.54	2.57	87.60	145.99	1.30	2.16	63.77	106.28	1.48	2.46	80.78	134.63
South	U2-L2	507	1.31	2.19	64.98	108.30	1.30	2.17	147.72	246.19	2.88	4.81	129.66	216.10	1.94	3.23	89.85	149.74	1.70	2.83	81.33	135.55	1.39	2.32	75.57	125.96	1.19	1.99	57.37	95.61	1.37	2.29	72.01	120.01
South	U3-L3	508	1.31	2.19	20.77	34.61	1.47	2.45	40.98	68.31	2.81	4.69	42.59	70.98	1.91	3.18	29.08	48.47	1.68	2.80	26.06	43.44	1.46	2.43	29.23	48.72	1.29	2.15	28.10	46.83	1.46	2.43	37.88	63.13
South	U4-L4	509	3.85	6.41	5.90	9.84	7.07	11.78	13.02	21.70	7.99	13.31	12.67	21.12	5.47	9.11	8.53	14.22	4.92	8.19	7.54	12.57	4.68	7.81	7.46	12.44	4.45	7.42	7.18	11.96	4.83	8.04	9.23	15.39
South	U5-L5	510	1.22	2.04	38.61	64.35	1.37	2.28	122.45	204.09	2.13	3.55	68.01	113.35	1.46	2.43	46.40	77.34	1.33	2.22	42.49	70.81	1.55	2.59	48.91	81.51	1.23	2.04	39.06	65.10	1.55	2.59	49.55	82.58
South	U6-L6	511	1.16	1.94	71.39	118.98	1.09	1.81	167.44	279.07	2.64	4.40	155.75	259.59	1.75	2.91	104.67	174.45	1.52	2.53	92.18	153.63	1.22	2.03	80.22	133.70	1.01	1.69	52.68	87.79	1.17	1.95	68.13	113.55
South	U7-L7	512	1.53	2.55	79.91	133.18	1.59	2.65	175.03	291.71	3.50	5.84	180.35	300.59	2.32	3.86	119.74	199.56	2.01	3.34	104.05	173.42	1.57	2.61	85.22	142.04	1.30	2.16	56.98	94.96	1.42	2.36	62.84	104.74
South	U8-L8	513	1.62	2.70	83.70	139.50	1.33	2.21	188.07	313.45	3.64	6.07	184.94	308.24	2.42	4.04	123.75	206.25	2.12	3.53	108.53	180.88	1.66	2.77	88.92	148.21	1.30	2.16	53.33	88.89	1.45	2.42	64.23	107.05
South	U9-L9	514	1.87	3.12	91.18	151.96	1.56	2.59	219.77	366.28	4.17	6.94	202.16	336.93	2.78	4.63	134.71	224.52	2.42	4.04	117.60	196.00	2.06	3.43	105.96	176.60	1.50	2.50	58.42	97.37	1.78	2.96	72.86	121.44
South	U10-L10	515	1.61	2.69	25.34	42.24	1.16	1.93	31.88	53.14	3.69	6.15	57.88	96.47	2.45	4.08	38.28	63.79	2.10	3.50	32.94	54.90	1.57	2.62	25.07	41.78	1.23	2.05	22.41	37.35	1.32	2.19	23.68	39.47
South	U11-L11	516	1.81	3.02	15.79	26.32	1.67	2.78	20.10	33.50	4.11	6.85	35.49	59.15	2.73	4.55	23.57	39.28	2.38	3.96	20.31	33.85	1.81	3.01	15.87	26.45	1.50	2.50	13.86	23.09	1.64	2.73	16.09	26.81
South	U12-L12	517	1.44	2.40	13.15	21.92	1.35	2.25	16.89	28.15	3.25	5.41	29.56	49.27	2.16	3.61	19.63	32.72	1.89	3.15	16.92	28.20	1.45	2.42	13.29	22.14	1.23	2.04	12.00	20.00	1.34	2.23	13.39	22.31
South	U13-L13	518	1.33	2.22	10.33	17.21	1.18	1.97	13.42	22.36	2.98	4.97	23.21	38.68	1.99	3.32	15.41	25.69	1.74	2.90	13.28	22.14	1.36	2.27	10.43	17.38	1.14	1.90	9.37	15.62	1.21	2.02	10.50	17.50
South	U14-L14	519	1.56	2.60	8.75	14.58	1.14	1.89	12.54	20.91	3.45	5.75	19.19	31.98	2.31	3.85	12.83	21.39	2.03	3.39	11.20	18.67	1.63	2.71	9.62	16.03	1.20	2.00	8.41	14.01	1.39	2.32	9.72	16.20
South	U15-L15	520	1.25	2.09	41.85	69.75	1.40	2.33	132.31	220.52	2.19	3.64	74.30	123.84	1.49	2.49	50.67	84.44	1.37	2.28	46.27	77.12	1.59	2.65	52.79	87.99	1.25	2.09	41.26	68.77	1.57	2.62	50.35	83.91

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	U16-L16	521	1.73	2.89	6.99	11.64	1.55	2.58	16.23	27.04	3.93	6.55	15.93	26.55	2.61	4.34	10.55	17.58	2.26	3.77	9.12	15.20	1.82	3.03	6.99	11.66	1.43	2.38	5.99	9.98	1.68	2.80	9.79	16.32
South	U17-L17	522	1.41	2.34	8.40	14.00	1.35	2.25	18.82	31.36	3.21	5.35	19.26	32.10	2.12	3.54	12.73	21.22	1.84	3.06	10.99	18.32	1.44	2.40	8.32	13.87	1.21	2.02	7.26	12.10	1.32	2.21	11.22	18.71
South	U18-L18	523	1.31	2.18	10.44	17.40	1.24	2.06	20.66	34.44	3.00	5.00	23.85	39.75	1.98	3.31	15.78	26.31	1.72	2.86	13.63	22.71	1.33	2.22	10.39	17.31	1.10	1.84	9.14	15.23	1.21	2.02	12.57	20.94
South	U19-L19	524	1.83	3.04	13.61	22.68	1.74	2.91	19.32	32.20	4.18	6.96	30.76	51.27	2.76	4.61	20.41	34.02	2.39	3.99	17.60	29.33	1.86	3.10	13.65	22.75	1.54	2.56	12.10	20.16	1.69	2.82	14.09	23.48
South	U20-L20	525	1.68	2.80	21.80	36.34	1.29	2.15	37.06	61.76	3.85	6.41	49.55	82.59	2.55	4.24	32.87	54.79	2.19	3.65	28.37	47.29	1.66	2.77	21.62	36.03	1.35	2.25	19.55	32.58	1.44	2.41	24.80	41.33
South	U21-L21	526	1.68	2.80	65.12	108.54	1.52	2.53	136.47	227.44	3.57	5.96	136.08	226.80	2.43	4.05	92.93	154.88	2.12	3.53	80.66	134.43	1.87	3.11	74.13	123.55	1.45	2.42	45.85	76.41	1.70	2.84	57.74	96.23
South	U22-L22	527	1.38	2.30	74.77	124.61	1.23	2.05	142.22	237.04	2.99	4.98	156.97	261.61	2.02	3.37	107.60	179.34	1.77	2.95	93.38	155.64	1.42	2.37	75.68	126.13	1.18	1.96	46.71	77.85	1.35	2.24	58.52	97.54
South	U23-L23	528	1.24	2.06	63.51	105.85	1.19	1.99	106.64	177.73	2.72	4.54	139.72	232.87	1.83	3.05	93.63	156.05	1.60	2.67	82.17	136.95	1.31	2.18	67.96	113.27	1.11	1.84	43.16	71.93	1.29	2.14	57.79	96.31
South	U24-L24	529	1.16	1.94	41.42	69.03	1.23	2.05	73.79	122.99	2.50	4.17	89.42	149.04	1.69	2.82	60.27	100.45	1.48	2.47	53.27	88.78	1.30	2.16	48.40	80.66	1.12	1.87	43.31	72.18	1.30	2.17	51.52	85.86
South	U25-L25	530	1.16	1.94	40.36	67.26	1.30	2.17	124.48	207.47	2.03	3.38	70.50	117.51	1.39	2.31	48.27	80.44	1.27	2.12	44.21	73.68	1.48	2.47	51.85	86.42	1.16	1.94	40.19	66.98	1.47	2.44	50.38	83.96
South	U26-L26	531	1.81	3.01	20.86	34.76	2.29	3.81	33.84	56.40	3.90	6.50	34.94	58.24	2.62	4.37	25.89	43.15	2.31	3.86	25.73	42.89	2.23	3.71	24.85	41.41	1.81	3.02	22.61	37.68	2.26	3.77	28.07	46.78
South	U27-L27	532	1.28	2.13	41.12	68.53	1.40	2.34	80.14	133.57	2.83	4.72	91.41	152.34	1.89	3.15	60.99	101.64	1.65	2.76	53.09	88.48	1.45	2.42	45.13	75.22	1.24	2.06	33.47	55.78	1.46	2.43	46.24	77.06
South	U28-L28	533	1.60	2.67	52.06	86.76	1.61	2.68	102.49	170.82	3.61	6.01	117.94	196.57	2.40	4.00	78.17	130.28	2.09	3.48	67.71	112.85	1.72	2.87	54.85	91.42	1.44	2.40	38.73	64.55	1.70	2.84	52.46	87.43
South	U29-L29	534	1.59	2.66	61.07	101.79	1.49	2.49	122.52	204.20	3.51	5.85	134.79	224.65	2.35	3.92	90.23	150.38	2.07	3.44	79.04	131.74	1.69	2.82	64.02	106.70	1.39	2.32	44.47	74.12	1.61	2.69	55.33	92.22
South	U30-L30	535	3.09	5.16	49.88	83.14	2.14	3.57	74.32	123.87	7.05	11.75	112.54	187.57	4.68	7.81	74.93	124.88	4.02	6.69	64.45	107.42	3.02	5.03	50.10	83.51	2.33	3.88	46.02	76.71	2.53	4.22	53.78	89.63
South	U31-L31	536	1.78	2.96	22.33	37.22	1.63	2.72	32.26	53.77	4.02	6.69	50.04	83.39	2.67	4.45	33.33	55.55	2.33	3.88	28.92	48.21	1.77	2.96	23.08	38.47	1.48	2.46	20.23	33.72	1.61	2.69	23.06	38.43
South	U32-L32	537	1.59	2.65	22.25	37.08	1.48	2.47	27.06	45.10	3.58	5.97	49.80	82.99	2.39	3.98	33.27	55.44	2.08	3.47	28.60	47.67	1.60	2.67	22.28	37.13	1.35	2.25	19.20	31.99	1.47	2.46	21.45	35.76
South	U33-L33	538	1.66	2.76	18.15	30.26	1.58	2.63	21.58	35.97	3.70	6.17	40.72	67.86	2.48	4.13	27.19	45.31	2.16	3.60	23.38	38.97	1.69	2.82	18.21	30.35	1.44	2.39	15.44	25.73	1.55	2.59	17.42	29.03
South	U34-L34	539	1.61	2.68	9.76	16.27	1.49	2.49	15.69	26.15	3.55	5.92	21.05	35.09	2.38	3.97	14.17	23.62	2.09	3.49	12.45	20.75	1.68	2.80	11.75	19.58	1.34	2.23	9.78	16.31	1.56	2.59	12.31	20.52
South	U35-L35	540	1.33	2.21	43.55	72.58	1.48	2.47	141.46	235.76	2.32	3.86	76.71	127.85	1.58	2.64	52.33	87.22	1.45	2.42	47.90	79.83	1.69	2.81	55.62	92.70	1.33	2.22	43.97	73.29	1.73	2.89	59.43	99.06
South	U36-L36	541	2.02	3.37	15.16	25.26	1.97	3.28	21.95	36.58	4.59	7.65	33.98	56.63	3.04	5.07	22.61	37.68	2.64	4.40	19.69	32.82	2.12	3.53	16.02	26.69	1.74	2.90	14.00	23.33	2.03	3.39	15.90	26.50
South	U37-L37	542	1.60	2.67	17.29	28.82	1.54	2.57	25.05	41.75	3.66	6.11	39.04	65.06	2.42	4.04	25.92	43.20	2.10	3.50	22.53	37.54	1.64	2.74	17.97	29.94	1.38	2.31	15.49	25.82	1.51	2.52	17.63	29.39
South	U38-L38	543	1.39	2.31	19.33	32.22	1.29	2.15	26.53	44.21	3.17	5.28	43.57	72.62	2.10	3.49	28.96	48.27	1.81	3.02	25.14	41.90	1.41	2.35	19.90	33.17	1.17	1.94	17.24	28.73	1.28	2.13	19.52	32.53
South	U39-L39	544	1.73	2.88	22.16	36.93	1.58	2.64	28.85	48.08	3.94	6.57	49.75	82.92	2.61	4.35	33.21	55.35	2.26	3.76	28.57	47.62	1.76	2.93	22.21	37.02	1.45	2.42	19.38	32.29	1.59	2.66	21.63	36.06
South	U40-L40	545	3.07	5.12	45.41	75.69	2.18	3.63	73.62	122.70	6.99	11.65	102.82	171.36	4.64	7.73	68.14	113.56	3.99	6.66	58.93	98.22	3.06	5.10	45.99	76.65	2.39	3.98	39.12	65.20	2.63	4.38	44.92	74.86
South	U41-L41	546	1.86	3.10	79.82	133.03	1.56	2.60	168.44	280.73	3.94	6.56	168.44	280.73	2.69	4.48	115.37	192.28	2.34	3.90	100.17	166.95	1.89	3.15	78.44	130.73	1.55	2.58	50.82	84.71	1.71	2.85	60.35	100.58
South	U42-L42	547	1.41	2.36	64.51	107.52	1.26	2.10	134.95	224.91	3.18	5.30	151.89	253.15	2.12	3.53	99.53	165.88	1.85	3.08	85.20	142.00	1.44	2.41	63.72	106.19	1.20	2.00	42.60	71.00	1.37	2.28	54.32	90.54
South	U43-L43	548	1.45	2.42	66.81	111.35	1.39	2.31	129.41	215.68	3.19	5.31	144.67	241.12	2.14	3.57	97.63	162.72	1.88	3.13	85.30	142.16	1.54	2.57	73.26	122.09	1.29	2.15	50.15	83.58	1.50	2.50	61.58	102.63
South	U44-L44	549	1.42	2.36	24.12	40.19	1.41	2.36	35.64	59.40	3.04	5.07	45.77	76.28	2.06	3.43	32.17	53.62	1.81	3.02	29.85	49.75	1.59	2.64	30.23	50.38	1.35	2.26	28.17	46.94	1.54	2.57	35.49	59.16
South	U45-L45	550	1.38	2.30	49.60	82.67	1.47	2.45	163.35	272.25	2.41	4.02	87.48	145.80	1.65	2.75	59.83	99.71	1.51	2.52	54.64	91.07	1.75	2.92	63.01	105.02	1.38	2.30	49.55	82.58	1.73	2.89	60.89	101.49
South	U46-L46	551	1.29	2.15	33.10	55.16	1.41	2.35	53.80	89.67	2.84	4.73	55.62	92.70	1.90	3.16	40.73	67.88	1.66	2.77	40.42	67.37	1.47	2.44	40.31	67.18	1.26	2.10	29.72	49.53	1.49	2.48	42.66	71.10
South	U47-L47	552	1.31	2.18	67.62	112.70	1.26	2.11	129.42	215.71	2.93	4.89	151.70	252.83	1.95	3.25	100.75	167.92	1.70	2.83	87.71	146.18	1.42	2.37	74.44	124.07	1.19	1.99	53.40	89.00	1.40	2.34	73.35	122.25
South	U48-L48	553	1.23	2.05	71.80	119.67	1.07	1.78	111.85	186.41	2.79	4.65	169.07	281.79	1.84	3.06	110.70	184.51	1.58	2.64	94.62	157.71	1.27	2.12	71.82	119.71	1.06	1.77	48.86	81.43	1.22	2.03	63.27	105.44
South	U49-L49	554	1.88	3.13	78.67	131.12	1.59	2.65	137.79	229.65	4.13	6.89	167.54	279.23	2.75	4.59	113.27	188.78	2.40	4.00	100.34	167.24	1.96	3.27	83.25	138.74	1.73	2.88	52.32	87.19	1.81	3.02	63.71	106.19
South	U50-L50	555	3.27	5.45	57.25	95.41	1.99	3.31	80.84	134.73	7.51	12.52	130.87	218.11	4.94	8.24	86.13	143.55	4.25	7.08	74.12	123.53	3.21	5.35	57.82	96.37	2.36	3.93	57.45	95.76	2.62	4.37	59.49	99.15
South	U51-L51	556	2.46	4.10	29.75	49.58	1.92	3.20	33.42	55.70	5.66	9.43	66.75	111.25	3.72	6.20	44.09	73.48	3.22	5.36	38.14	63.57	2.47	4.11	30.60	51.01	1.99	3.32	26.40	44.00	2.20	3.67	29.45	49.08
South	U52-L52	557	1.98	3.30	26.45	44.08	1.58	2.64	31.02	51.71	4.55	7.58	60.04	100.06	2.99	4.99	39.71	66.18	2.59	4.31	34.30	57.17	1.99	3.31	26.30	43.83	1.69	2.81	23.44	39.06	1.80	3.00	25.81	43.02
South	U53-L53	558	2.56	4.27	24.60	41.00	2.13	3.54	29.04	48.40	5.88	9.80	56.59	94.32	3.87	6.45	37.07	61.79	3.35	5.58	31.93	53.22	2.59	4.31	24.47	40.78	2.12	3.54	21.44	35.73	2.34	3.90	23.94	39.90
South	U54-L54	559	1.83	3.05	15.92	26.54	1.54	2.57	18.85	31.42	4.18	6.96	36.65	61.09	2.75	4.59	24.01	40.02	2.38	3.97	20.68	34.46	1.86	3.09	15.85	26.41	1.55	2.58	13.73	22.88	1.67	2.78	15.47	25.78
South	U55-L55	560	2.14	3.56	9.33	15.55	1.87	3.11	13.17	21.95	4.85	8.09	20.81	34.69	3.21	5.34	13.81	23.02	2.78	4.63	12.03	20.05	2.21	3.69	10.00	16.67	1.93	3.21	8.91	14.85	2.08	3.47	10.57	17.61
South	U56-L56	561	1.97	3.28	30.95	51.59	2.10	3.51	87.07	145.12	3.50	5.84	55.93	93.21	2.37	3.95	38.07	63.45	2.15	3.58	34.33	57.21	2.47	4.12	39.59	65.98	1.97	3.29	30.97	51.62	2.45	4.09	39.01	65.01
South	U57-L57	562	1.87	3.12	15.88	26.46	1.50	2.50	18.32	30.53	4.28	7.13	36.22	60.37	2.83	4.71	23.80	39.66	2.44	4.07	20.57	34.29	1.91	3.18	16.40	27.34	1.52	2.53	13.74	22.90	1.69	2.82	15.51	25.85
South	U58-L58	563	2.25	3.74	25.54	42.56	1.88	3.13	28.95	48.24	5.14	8.56	57.81	96.35	3.39	5.66	38.14	63.56	2.93	4.88	33.07	55.11	2.27	3.79	25.92	43.20	1.87	3.12	21.46	35.77	2.21	3.68	24.15	40.25
South	U59-L59	564	2.73	4.55	34.46	57.43	2.17	3.61	37.87	63.12	6.27	10.44	79.06	131.77	4.13	6.89	51.82	86.36	3.57	5.95	44.71	74.52	2.74	4.57	34.76	57.94	2.24	3.73	29.02	48.37	2.54	4.23	32.62	54.37
South	U60-L60	565	2.16	3.61	27.64	46.06	1.68	2.80	33.03	55.04	4.95	8.25	63.58	105.97	3.27	5.44	41.67	69.44	2.82	4.70	35.88	59.80	2.18	3.63	27.49	45.82	1.79	2.99	23.83	39.72	1.94	3.24	26.59	44.32
South	U61-L61	566	2.27	3.78	23.60	39.33	1.77	2.94	27.74	46.23	5.17	8.62	54.28	90.47	3.42	5.69	35.57	59.28	2.96	4.93	30.63	51.05	2.31	3.84	23.47	39.12	1.88	3.13	20.55	34.25	2.07	3.45	22.93	38.21
South	U62-L62	567	2.60	4.33	37.83	63.04	1.85	3.08	85.07	141.79	5.93	9.88	86.85	144.76	3.89	6.48	57.21	95.35	3.35	5.58	49.16	81.94	2.59	4.31	38.04	63.40	2.12	3.53	33.40	55.66	2.35	3.91	38.75	64.58
South	U63-L63	568	1.95	3.26	77.37	128.96	1.71	2.85	158.70	264.49	4.36	7.27	172.69	287.81	2.88	4.80	113.55	189.24	2.50	4.16	98.56	164.27	2.18	3.63	86.84	144.73	1.65	2.76	56.60	94.33	2.20	3.67	87.16	145.26
South	U64-L64	569	1.91	3.18	69.42	115.70	1.62	2.70	134.17	223.61	4.29	7.15	156.26	260.43	2.83	4.72	102.71	171.18	2.45	4.09	89.12	148.53	1.98	3.29	71.44	119.06	1.60	2.66	45.59	75.99	1.80	3.00	54.94	91.57
South	U65-L65	570	1.37	2.28	70.60	117.66	1.23	2.05	142.72	237.87	3.14	5.24	164.46	274.09	2.08	3.46	108.21	180.34	1.78	2.97	92.60	154.33	1.41	2.35	68.68	114.47	1.16	1.93	43.94	73.23	1.33	2.22	55.61	92.68
South	U66-L66	571	1.39	2.31	60.06	100.09	1.36	2.26	109.75	182.91	3.14	5.24	136.05	226.75	2.08	3.46	90.67	151.11	1.79	2.99	77.29	128.82	1.49	2.49	65.37	108.95	1.24	2.06	41.04	68.41	1.44	2.40	51.26	85.43
South	U67-L67	572	1.46	2.44	23.96	39.94	1.62	2.70	34.29	57.16	3.27	5.46	44.30	73.83	2.16	3.61	31.12	51.87	1.88	3.13	27.99	46.64	1.67	2.78	28.43	47.39	1.40	2.34	27.10	45.16	1.64	2.73	31.99	53.32
South	U68-L68	573	1.91	3.18	55.77	92.95	2.15	3.59	192.77	321.28	3.43	5.72	98.70	164.50	2.30	3.83	66.41	110.68	2.07	3.46	59.55	99.26	2.40	4.00	68.80	114.67	1.90	3.16	54.51	90.84	2.39	3.99	69.80	116.33
South	U69-L69	574	1.33	2.21	27.68	46.13	1.49	2.49	44.21	73.69	2.93	4.89	49.19	81.99	1.96	3.26	34.38	57.31	1.69	2.82	31.61	52.69	1.47	2.46	30.90	51.51	1.26	2.11	23.70	39.50	1.51	2.51	31.38	52.30
South	U70-L70	575	1.32	2.19	49.50	82.51	1.32	2.19	93.05	155.09	2.96	4.93	110.35	183.92	1.96	3.27	73.21	122.01	1.70	2.83	62.86	104.77	1.40	2.33	52.55	87.59	1.18	1.96	36.69	61.15	1.39	2.32	47.86	79.76
South	U71-L71	576	1.49	2.48	56.85	94.76	1.37	2.28	113.48	189.13	3.38	5.64	129.29	215.48	2.24	3.73	85.63	142.72	1.94	3.23	73.77	122.95	1.53	2.56	58.46	97.43	1.27	2.11	40.10	66.84	1.45	2.41	50.44	84.07
South	U72-L72	577	1.74	2.90	67.80	113.00	1.50	2.49	129.14	215.24	3.87	6.46	152.11	253.52	2.58	4.30	100.93	168.21	2.23	3.71	86.60	144.34	1.78	2.96	68.75	114.58	1.47	2.45	49.76	82.93	1.61	2.69	57.25	95.42
South	U73-L73	578	2.12	3.53	70.51	117.52	1.85	3.08	136.69	227.82	4.68	7.79	155.28	258.81	3.11	5.19	102.72	171.21	2.69	4.48	88.36	147.27	2.34	3.90	78.39	130.65	1.76	2.93	45.82	76.37	2.07	3.46	58.81	98.02
South	U74-L74	579	3.21	5.35	31.35	52.25	2.03	3.38	36.33	60.55	7.52	12.53	72.09	120.15	4.92	8.21	47.47	79.12	4.22	7.03	40.92	68.19	3.08	5.14	31.46	52.44	2.22	3.69	26.52	44.20	2.42	4.03	29.45	49.08
South	U75-L75	580	2.25	3.76	16.79	27.98	1.50	2.50	19.51	32.52	5.27	8.79	38.80	64.66	3.48	5.79	25.39	42.32	2.97	4.95	21.81	36.35	2.18	3.64	16.45	27.41	1.58	2.63	14.22	23.70	1.72	2.87	15.53	25.89
South	U76-L76	581	1.87	3.11	16.94	28.23	1.25	2.08	18.27	30.45	4.37	7.29	39.27	65.45	2.88	4.80	25.72	42.87	2.46	4.10	22.07	36.79	1.81	3.01	16.40	27.33	1.34	2.23	14.16	23.61	1.44	2.40	15.11	25.19
South	U77-L77	582	2.44	4.07	16.95	28.26	1.66	2.76	17.61	29.35	5.72	9.53	39.51	65.86	3.76	6.27	25.88	43.13	3.22	5.36	22.17	36.96	2.37	3.95	16.33	27.22	1.80	3.00	14.00	23.34	1.91	3.19	14.92	24.86
South	U78-L78	583	2.42	4.04	14.31	23.84	1.69	2.82	14.80	24.67	5.66	9.43	33.34	55.57	3.73	6.22	21.84	36.40	3.19	5.31	18.71	31.18	2.36	3.93	13.78	22.96	1.77	2.95	11.80	19.67	1.93	3.21	12.57	20.94
South	U79-L79	584	2.51	4.18	11.60	19.33	1.77	2.95	11.96	19.93	5.86	9.76	27.03	45.05	3.86	6.43	17.70	29.50	3.30	5.49	15.17	25.28	2.45	4.08	11.17	18.61	1.85	3.08	9.55	15.92	2.01	3.35	10.17	16.95
South	U80-L80	585	3.14	5.23	9.96	16.59	2.32	3.87	10.23	17.04	7.28	12.13	23.21	38.68	4.81	8.01	15.20	25.33	4.11	6.85	13.02	21.70	3.10	5.17	9.58	15.97	2.35	3.92	8.19	13.65	2.59	4.32	8.72	14.53

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	U81-L81	586	3.03	5.05	5.08	8.46	2.52	4.20	5.95	9.92	7.01	11.69	11.63	19.38	4.63	7.72	7.66	12.77	3.96	6.60	6.62	11.03	3.01	5.02	5.14	8.56	2.44	4.06	4.35	7.25	2.69	4.49	4.94	8.24
South	U82-L82	587	1.96	3.27	56.03	93.38	2.21	3.68	191.92	319.87	3.55	5.92	103.27	172.12	2.38	3.96	69.24	115.41	2.14	3.57	61.68	102.79	2.46	4.11	69.33	115.54	1.96	3.27	55.48	92.47	2.46	4.11	70.16	116.93
South	U83-L83	588	1.66	2.77	18.51	30.85	1.02	1.71	25.81	43.01	3.86	6.44	42.04	70.07	2.54	4.23	27.89	46.48	2.19	3.64	23.98	39.97	1.64	2.73	19.23	32.04	1.08	1.79	15.86	26.43	1.30	2.17	18.43	30.72
South	U84-L84	589	1.93	3.22	27.58	45.97	1.25	2.08	32.36	53.93	4.50	7.49	63.43	105.72	2.96	4.93	41.51	69.18	2.54	4.24	35.72	59.53	1.89	3.16	27.35	45.58	1.32	2.20	21.28	35.46	1.46	2.44	23.87	39.78
South	U85-L85	590	2.76	4.61	31.86	53.09	1.84	3.06	37.88	63.13	6.44	10.73	73.33	122.21	4.23	7.05	48.01	80.01	3.64	6.06	41.29	68.82	2.70	4.49	31.49	52.49	1.94	3.23	25.59	42.65	2.11	3.52	28.23	47.06
South	U86-L86	591	2.26	3.77	25.39	42.32	1.54	2.57	29.43	49.05	5.27	8.79	58.78	97.97	3.47	5.78	38.51	64.18	2.98	4.97	33.09	55.14	2.20	3.66	24.81	41.35	1.63	2.71	20.89	34.82	1.76	2.94	22.88	38.13
South	U87-L87	592	2.07	3.44	16.78	27.96	1.39	2.32	18.69	31.15	4.82	8.03	39.12	65.20	3.16	5.27	25.58	42.64	2.72	4.54	21.94	36.56	2.01	3.35	16.15	26.91	1.50	2.50	13.79	22.99	1.60	2.67	14.72	24.53
South	U88-L88	593	1.88	3.13	9.64	16.06	1.28	2.13	10.37	17.28	4.36	7.27	22.47	37.44	2.87	4.78	14.69	24.49	2.47	4.12	12.60	21.00	1.83	3.05	9.27	15.46	1.36	2.26	7.92	13.20	1.47	2.44	8.45	14.08
South	U89-L89	594	2.47	4.11	8.36	13.94	1.75	2.92	8.98	14.96	5.71	9.52	19.50	32.51	3.76	6.27	12.76	21.26	3.24	5.40	10.94	18.23	2.42	4.03	8.05	13.42	1.79	2.99	6.87	11.46	1.96	3.27	7.34	12.23
South	U90-L90	595	4.15	6.92	3.02	5.03	3.37	5.61	3.15	5.25	9.61	16.02	7.03	11.71	6.29	10.48	4.60	7.66	5.40	9.01	3.95	6.58	4.02	6.70	2.93	4.88	3.11	5.18	2.50	4.16	3.43	5.71	2.67	4.44
South	U91-L91	596	2.02	3.36	12.16	20.27	3.10	5.17	13.13	21.88	4.50	7.50	28.20	47.01	2.97	4.96	18.53	30.89	2.58	4.30	15.92	26.53	2.29	3.82	12.31	20.52	2.34	3.90	10.36	17.27	3.11	5.19	11.55	19.26
South	U92-L92	597	1.55	2.58	59.15	98.58	1.64	2.73	138.84	231.39	3.45	5.76	132.47	220.79	2.28	3.80	87.21	145.35	1.98	3.29	75.53	125.88	1.74	2.90	65.76	109.60	1.49	2.49	51.37	85.62	1.78	2.97	62.61	104.35
South	U93-L93	598	1.59	2.64	62.90	104.84	1.37	2.28	122.71	204.52	3.56	5.93	141.61	236.01	2.35	3.92	93.63	156.06	2.03	3.39	80.55	134.25	1.77	2.95	70.40	117.34	1.32	2.21	41.23	68.71	1.53	2.55	48.39	80.65
South	U94-L94	599	1.68	2.79	84.79	141.31	1.22	2.04	146.69	244.48	3.84	6.39	192.09	320.15	2.54	4.23	127.30	212.16	2.18	3.64	109.07	181.78	1.74	2.89	90.68	151.14	1.31	2.18	49.38	82.30	1.43	2.39	55.60	92.67
South	U95-L95	600	1.55	2.59	79.99	133.31	1.14	1.90	131.32	218.86	3.62	6.04	184.40	307.34	2.39	3.98	121.94	203.23	2.04	3.40	104.24	173.73	1.53	2.54	77.73	129.55	1.15	1.92	42.14	70.23	1.33	2.21	52.98	88.29
South	U96-L96	601	3.55	5.92	97.56	162.61	2.78	4.63	164.92	274.86	8.23	13.71	224.48	374.13	5.44	9.07	148.47	247.45	4.65	7.75	126.98	211.63	3.54	5.90	95.62	159.37	2.76	4.61	53.90	89.83	3.07	5.11	67.33	112.22
South	U97-L97	602	1.20	2.00	59.30	98.83	1.01	1.68	104.15	173.58	2.76	4.61	135.71	226.19	1.83	3.04	90.19	150.32	1.57	2.61	76.90	128.17	1.22	2.03	59.31	98.86	0.98	1.64	37.16	61.93	1.09	1.82	43.45	72.42
South	U98-L98	603	1.19	1.98	37.91	63.18	1.10	1.84	59.87	99.78	2.73	4.54	72.45	120.75	1.81	3.01	50.99	84.98	1.55	2.58	45.35	75.58	1.23	2.06	41.60	69.33	1.02	1.70	32.74	54.57	1.18	1.96	40.72	67.86
South	U99-L99	604	1.28	2.13	14.02	23.37	1.40	2.33	26.85	44.75	2.90	4.83	28.34	47.24	1.93	3.21	19.31	32.19	1.66	2.76	17.35	28.92	1.37	2.28	20.19	33.65	1.14	1.90	17.29	28.82	1.42	2.36	25.64	42.73
South	U100-L100	605	1.36	2.26	43.49	72.48	1.53	2.55	150.85	251.41	2.45	4.09	79.74	132.89	1.64	2.74	53.49	89.15	1.48	2.47	47.68	79.46	1.70	2.84	53.86	89.77	1.35	2.26	43.34	72.23	2.13	3.55	133.02	221.69
South	U101-L101	606	1.65	2.75	10.87	18.12	1.96	3.26	22.31	37.18	3.72	6.21	22.59	37.64	2.47	4.11	15.42	25.70	2.14	3.57	13.46	22.44	1.77	2.95	15.88	26.47	1.52	2.54	16.76	27.93	1.94	3.23	24.64	41.06
South	U102-L102	607	1.36	2.27	33.77	56.29	1.31	2.18	53.43	89.05	3.11	5.18	65.16	108.61	2.05	3.42	44.74	74.57	1.78	2.96	41.23	68.72	1.41	2.35	36.49	60.82	1.18	1.97	36.53	60.89	1.37	2.29	48.43	80.71
South	U103-L103	608	1.34	2.23	68.10	113.50	1.14	1.90	129.33	215.55	3.07	5.11	155.70	259.50	2.02	3.37	103.29	172.15	1.75	2.91	89.14	148.57	1.35	2.26	69.00	115.00	1.11	1.85	47.35	78.91	1.22	2.03	54.57	90.96
South	U104-L104	609	1.63	2.71	85.57	142.62	1.29	2.15	145.95	243.25	3.76	6.26	194.79	324.64	2.47	4.12	129.76	216.26	2.13	3.55	112.12	186.87	1.62	2.71	83.78	139.64	1.28	2.13	47.21	78.69	1.42	2.36	60.15	100.26
South	U105-L105	610	1.41	2.35	96.05	160.09	1.03	1.72	160.47	267.46	3.29	5.49	219.70	366.16	2.16	3.60	145.64	242.73	1.86	3.10	125.30	208.83	1.38	2.31	92.51	154.18	1.04	1.73	46.26	77.10	1.21	2.01	60.03	100.05
South	U106-L106	611	1.67	2.79	99.84	166.39	1.24	2.07	187.37	312.28	3.78	6.31	221.43	369.05	2.51	4.18	146.41	244.01	2.17	3.61	125.83	209.72	1.75	2.91	106.64	177.74	1.36	2.26	52.46	87.44	1.48	2.47	64.78	107.96
South	U107-L107	612	1.53	2.55	76.82	128.04	1.29	2.14	162.92	271.53	3.40	5.67	169.98	283.30	2.26	3.77	112.00	186.66	1.95	3.26	96.45	160.76	1.67	2.79	83.97	139.95	1.26	2.10	49.85	83.08	1.44	2.40	58.03	96.72
South	U108-L108	613	1.57	2.62	56.64	94.39	1.66	2.77	137.74	229.57	3.47	5.79	125.53	209.22	2.31	3.85	82.70	137.83	2.00	3.33	71.20	118.67	1.75	2.92	61.68	102.80	1.51	2.51	50.42	84.03	1.85	3.09	59.77	99.62
South	U109-L109	614	2.80	4.67	7.90	13.16	6.19	10.31	8.21	13.68	6.10	10.17	18.13	30.22	4.05	6.76	11.96	19.93	3.52	5.86	10.28	17.14	3.19	5.32	7.90	13.17	3.80	6.33	6.25	10.42	4.74	7.90	6.93	11.55
South	U110-L110	615	2.25	3.75	2.94	4.90	1.73	2.89	3.04	5.06	5.21	8.68	6.83	11.38	3.41	5.69	4.47	7.45	2.93	4.89	3.84	6.40	2.19	3.65	2.85	4.75	1.68	2.80	2.40	4.00	1.83	3.05	2.58	4.29
South	U111-L111	616	1.84	3.06	9.37	15.61	1.27	2.12	10.02	16.70	4.24	7.07	21.82	36.36	2.79	4.65	14.28	23.81	2.40	4.00	12.24	20.41	1.80	3.00	9.00	15.01	1.33	2.21	7.69	12.82	1.44	2.41	8.20	13.66
South	U112-L112	617	1.75	2.92	12.76	21.26	1.19	1.98	13.71	22.85	4.07	6.79	29.72	49.53	2.67	4.45	19.46	32.43	2.30	3.83	16.68	27.80	1.71	2.86	12.26	20.44	1.27	2.12	10.47	17.45	1.36	2.26	11.16	18.61
South	U113-L113	618	2.13	3.55	23.24	38.73	1.44	2.39	25.73	42.88	4.96	8.26	54.17	90.28	3.25	5.41	35.45	59.08	2.79	4.66	30.39	50.65	2.08	3.46	22.33	37.21	1.57	2.61	19.06	31.76	1.64	2.73	20.30	33.84
South	U114-L114	619	2.49	4.15	69.03	115.05	1.64	2.74	80.83	134.71	5.79	9.66	159.18	265.30	3.79	6.32	104.84	174.73	3.27	5.45	90.45	150.75	2.45	4.08	67.70	112.84	1.75	2.92	40.31	67.18	1.95	3.26	46.21	77.01
South	U115-L115	620	3.37	5.62	59.25	98.75	2.05	3.41	106.73	177.88	7.86	13.09	135.85	226.41	5.15	8.58	89.34	148.91	4.43	7.39	77.25	128.76	3.31	5.51	60.60	100.99	2.20	3.67	42.55	70.91	2.46	4.10	50.27	83.78
South	U116-L116	621	2.89	4.81	30.65	51.09	1.54	2.57	48.02	80.03	6.73	11.22	70.46	117.43	4.41	7.36	46.47	77.45	3.80	6.33	40.14	66.90	2.84	4.73	31.35	52.24	1.93	3.21	29.41	49.02	2.10	3.50	32.68	54.47
South	U117-L117	622	3.07	5.11	22.04	36.74	1.70	2.83	34.43	57.38	7.14	11.90	50.60	84.33	4.69	7.81	33.42	55.71	4.03	6.71	28.88	48.13	3.03	5.05	22.54	37.57	1.99	3.32	22.52	37.54	2.45	4.09	25.91	43.19
South	U118-L118	623	2.55	4.24	28.10	46.84	2.57	4.29	77.27	128.78	4.52	7.53	50.52	84.20	3.06	5.10	34.22	57.03	2.77	4.62	30.99	51.66	3.18	5.30	36.11	60.19	2.53	4.22	28.36	47.26	3.18	5.30	76.58	127.63
South	U119-L119	624	5.21	8.69	4.31	7.19	6.07	10.12	4.19	6.98	11.99	19.98	9.91	16.52	7.92	13.20	6.52	10.86	6.82	11.36	5.62	9.37	5.20	8.66	4.40	7.33	5.11	8.51	3.76	6.27	5.58	9.30	4.54	7.57
South	U120-L120	625	3.70	6.17	8.18	13.63	2.98	4.97	7.74	12.90	8.52	14.21	19.01	31.68	5.62	9.37	12.42	20.69	4.84	8.06	10.67	17.79	3.66	6.11	8.04	13.40	3.53	5.89	6.83	11.38	3.33	5.55	7.28	12.13
South	U121-L121	626	2.16	3.59	10.15	16.91	1.49	2.48	9.41	15.68	5.00	8.33	23.66	39.43	3.28	5.47	15.47	25.79	2.83	4.71	13.27	22.11	2.11	3.52	9.75	16.26	1.66	2.77	8.28	13.81	1.79	2.99	8.83	14.72
South	U122-L122	627	2.40	3.99	14.36	23.94	1.57	2.61	13.35	22.25	5.55	9.25	33.49	55.82	3.65	6.08	21.90	36.51	3.14	5.24	18.78	31.30	2.35	3.92	13.81	23.02	1.79	2.99	11.74	19.56	1.95	3.25	12.51	20.86
South	U123-L123	628	3.15	5.26	21.00	34.99	2.04	3.40	19.56	32.59	7.30	12.16	48.95	81.59	4.80	8.00	32.01	53.35	4.14	6.89	27.45	45.75	3.11	5.18	20.19	33.65	2.43	4.05	17.17	28.61	2.53	4.22	18.30	30.51
South	U124-L124	629	2.54	4.23	24.24	40.40	1.64	2.73	22.62	37.70	5.85	9.75	56.46	94.10	3.85	6.42	36.95	61.59	3.32	5.54	31.69	52.82	2.51	4.18	23.32	38.86	1.87	3.12	19.83	33.05	2.02	3.37	21.15	35.24
South	U125-L125	630	2.64	4.41	30.37	50.62	1.74	2.90	28.54	47.56	6.09	10.14	70.71	117.85	4.01	6.68	46.29	77.15	3.46	5.77	39.70	66.16	2.63	4.38	29.22	48.69	1.91	3.18	24.96	41.60	2.12	3.53	26.62	44.36
South	U126-L126	631	2.72	4.53	38.94	64.90	2.05	3.42	36.87	61.45	6.56	10.93	90.70	151.16	4.23	7.05	59.37	98.96	3.67	6.11	50.91	84.84	2.72	4.54	37.43	62.38	1.99	3.31	31.91	53.18	2.21	3.68	34.04	56.73
North	U0-L0	632	0.80	1.33	55.24	92.07	0.75	1.25	72.92	121.53	1.78	2.97	115.22	192.04	1.19	1.98	78.91	131.51	1.04	1.73	70.96	118.27	0.80	1.33	62.55	104.25	0.67	1.11	48.58	80.97	0.75	1.25	61.24	102.07
North	U1-L1	633	1.49	2.49	76.56	127.60	1.37	2.28	119.06	198.44	3.32	5.54	161.21	268.69	2.22	3.71	109.89	183.15	1.95	3.24	96.57	160.95	1.54	2.57	87.51	145.85	1.30	2.16	63.70	106.16	1.48	2.46	80.68	134.46
North	U2-L2	634	1.31	2.18	64.98	108.29	1.28	2.14	111.00	185.00	2.88	4.80	129.65	216.09	1.93	3.22	89.84	149.74	1.70	2.83	81.33	135.54	1.39	2.32	75.56	125.94	1.19	1.98	57.36	95.61	1.37	2.28	71.99	119.98
North	U3-L3	635	1.31	2.18	20.79	34.64	1.46	2.44	39.83	66.38	2.80	4.67	42.63	71.04	1.90	3.17	29.11	48.51	1.67	2.79	26.09	43.48	1.46	2.43	29.26	48.76	1.29	2.15	28.12	46.87	1.45	2.42	37.91	63.18
North	U4-L4	636	3.84	6.41	5.91	9.84	6.97	11.62	12.85	21.41	7.98	13.30	12.68	21.13	5.46	9.10	8.54	14.23	4.91	8.19	7.55	12.58	4.68	7.80	7.47	12.45	4.45	7.41	7.18	11.97	4.82	8.03	9.24	15.41
North	U5-L5	637	1.22	2.03	38.49	64.15	1.36	2.26	117.11	195.19	2.13	3.54	67.73	112.89	1.45	2.42	46.23	77.04	1.33	2.22	42.34	70.56	1.55	2.58	48.73	81.22	1.22	2.04	38.94	64.89	1.55	2.58	49.37	82.29
North	U6-L6	638	1.10	1.83	70.26	117.10	1.02	1.69	113.79	189.65	2.49	4.15	153.34	255.57	1.65	2.75	103.01	171.69	1.43	2.39	90.71	151.19	1.15	1.91	78.97	131.62	0.95	1.59	51.81	86.35	1.11	1.84	67.02	111.70
North	U7-L7	639	1.08	1.80	72.18	120.29	1.14	1.90	142.46	237.44	2.47	4.12	162.89	271.49	1.64	2.73	108.16	180.27	1.42	2.36	93.99	156.65	1.11	1.84	76.98	128.31	0.92	1.53	51.40	85.67	1.00	1.67	56.70	94.50
North	U8-L8	640	1.62	2.70	83.70	139.50	1.32	2.20	152.36	253.93	3.63	6.05	184.93	308.22	2.42	4.03	123.74	206.24	2.11	3.52	108.52	180.87	1.66	2.76	88.92	148.20	1.29	2.16	53.29	88.81	1.45	2.41	64.17	106.95
North	U9-L9	641	1.87	3.11	91.35	152.26	1.52	2.54	174.91	291.52	4.15	6.92	202.56	337.61	2.77	4.61	134.99	224.98	2.42	4.03	117.84	196.39	2.05	3.42	106.30	177.17	1.50	2.50	58.59	97.66	1.77	2.95	73.12	121.87
North	U10-L10	642	1.60	2.66	25.33	42.22	1.06	1.77	31.85	53.09	3.65	6.09	57.84	96.40	2.42	4.04	38.25	63.76	2.08	3.46	32.93	54.88	1.56	2.59	25.07	41.78	1.22	2.03	22.41	37.34	1.30	2.17	23.69	39.48
North	U11-L11	643	1.80	3.00	15.80	26.33	1.47	2.45	19.88	33.14	4.09	6.81	35.49	59.15	2.72	4.53	23.57	39.28	2.36	3.94	20.31	33.86	1.80	3.00	15.87	26.46	1.49	2.48	13.86	23.10	1.63	2.72	16.09	26.82
North	U12-L12	644	1.43	2.39	13.16	21.93	1.21	2.01	16.85	28.08	3.23	5.39	29.58	49.29	2.15	3.59	19.64	32.74	1.88	3.13	16.93	28.21	1.45	2.41	13.30	22.16	1.22	2.03	12.01	20.02	1.33	2.22	13.40	22.34
North	U13-L13	645	1.17	1.96	9.85	16.42	0.96	1.60	12.79	21.32	2.63	4.38	22.14	36.90	1.76	2.93	14.70	24.51	1.54	2.56	12.67	21.12	1.20	2.00	9.95	16.58	1.00	1.67	8.94	14.91	1.07	1.78	10.03	16.71
North	U14-L14	646	1.55	2.59	8.76	14.60	1.12	1.86	12.51	20.85	3.44	5.73	19.22	32.03	2.30	3.84	12.85	21.42	2.02	3.37	11.22	18.69	1.62	2.70	9.63	16.05	1.20	1.99	8.42	14.04	1.39	2.31	9.74	16.24
North	U15-L15	647	1.25	2.09	41.96	69.93	1.30	2.17	91.25	152.09	2.18	3.64	74.36	123.94	1.49	2.49	50.69	84.49	1.37	2.28	46.34	77.24	1.59	2.65	52.86	88.09	1.25	2.09	41.36	68.94	1.57	2.61	50.40	84.00
North	U16-L16	648	1.73	2.88	6.99	11.65	1.40	2.33	15.97	26.62	3.93	6.54	15.94	26.57	2.60	4.34	10.55	17.59	2.26	3.76	9.12	15.21	1.81	3.02	7.00	11.66	1.42	2.37	5.99	9.98	1.68	2.80	9.80	16.34
North	U17-L17	649	1.40	2.33	8.41	14.01	1.20	1.99	18.39	30.65	3.20	5.33	19.27	32.12	2.12	3.53	12.74	21.23	1.83	3.05	11.00	18.33	1.44	2.39	8.33	13.88	1.21	2.01	7.26	12.11	1.32	2.20	11.23	18.71
North	U18-L18	650	1.24	2.07	10.33	17.22	1.05	1.75	20.08	33.47	2.84	4.73	23.60	39.34	1.88	3.13	15.62	26.03	1.62	2.71	13.48	22.47	1.26	2.10	10.28	17.13	1.04	1.74	9.04	15.07	1.15	1.91	12.42	20.71

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	U19-L19	651	1.82	3.03	13.61	22.68	1.58	2.63	19.20	32.00	4.16	6.93	30.75	51.25	2.75	4.58	20.41	34.02	2.38	3.97	17.60	29.33	1.85	3.08	13.65	22.74	1.53	2.55	12.09	20.15	1.68	2.80	14.08	23.47
North	U20-L20	652	1.66	2.77	21.78	36.30	1.21	2.02	36.12	60.21	3.81	6.35	49.49	82.49	2.52	4.20	32.84	54.73	2.17	3.62	28.34	47.24	1.64	2.74	21.60	36.01	1.34	2.23	19.51	32.52	1.43	2.38	24.77	41.29
North	U21-L21	653	1.68	2.79	65.23	108.71	1.50	2.50	108.51	180.85	3.56	5.94	136.36	227.26	2.42	4.03	93.10	155.16	2.11	3.52	80.84	134.74	1.86	3.10	74.32	123.87	1.45	2.41	45.96	76.60	1.70	2.83	57.93	96.55
North	U22-L22	654	1.10	1.83	69.47	115.78	0.97	1.62	107.35	178.92	2.38	3.96	145.58	242.64	1.61	2.68	99.88	166.46	1.41	2.35	86.67	144.44	1.13	1.89	70.34	117.23	0.94	1.56	43.42	72.37	1.07	1.79	54.38	90.64
North	U23-L23	655	1.08	1.79	60.55	100.92	1.03	1.71	84.31	140.51	2.37	3.95	133.28	222.13	1.59	2.65	89.30	148.83	1.40	2.33	78.36	130.60	1.14	1.90	64.70	107.83	0.96	1.60	41.06	68.43	1.12	1.86	55.02	91.69
North	U24-L24	656	1.16	1.94	41.46	69.10	1.21	2.02	57.15	95.26	2.50	4.16	89.50	149.17	1.69	2.82	60.33	100.55	1.48	2.47	53.32	88.87	1.29	2.16	48.49	80.81	1.12	1.87	43.38	72.29	1.30	2.17	51.84	86.40
North	U25-L25	657	1.16	1.94	40.37	67.28	1.27	2.12	112.97	188.29	2.02	3.37	70.51	117.51	1.38	2.31	48.28	80.47	1.27	2.12	44.22	73.70	1.48	2.47	51.87	86.44	1.16	1.94	40.20	67.00	1.46	2.44	50.39	83.99
North	U26-L26	658	1.80	3.01	20.90	34.83	2.26	3.77	32.25	53.75	3.89	6.49	35.00	58.33	2.62	4.37	25.93	43.22	2.31	3.85	25.78	42.96	2.22	3.71	24.95	41.58	1.81	3.02	22.63	37.72	2.26	3.76	28.21	47.02
North	U27-L27	659	1.28	2.13	41.15	68.58	1.38	2.31	65.24	108.74	2.83	4.71	91.48	152.47	1.89	3.14	61.04	101.73	1.65	2.75	53.14	88.57	1.45	2.41	45.17	75.28	1.23	2.06	33.50	55.83	1.45	2.42	46.25	77.08
North	U28-L28	660	1.28	2.13	47.49	79.15	1.28	2.13	63.87	106.45	2.87	4.79	107.57	179.28	1.91	3.18	71.31	118.84	1.66	2.77	61.78	102.96	1.37	2.28	50.05	83.42	1.15	1.91	35.34	58.91	1.36	2.26	47.88	79.80
North	U29-L29	661	1.59	2.66	61.37	102.28	1.49	2.48	80.25	133.75	3.51	5.85	135.72	226.21	2.35	3.92	90.80	151.33	2.07	3.44	79.47	132.45	1.69	2.82	64.26	107.09	1.39	2.32	44.63	74.39	1.61	2.69	55.57	92.61
North	U30-L30	662	3.03	5.05	49.85	83.09	1.98	3.29	72.32	120.53	6.90	11.51	112.46	187.43	4.59	7.65	74.83	124.71	3.94	6.56	64.40	107.33	2.96	4.93	50.37	83.96	2.28	3.80	45.88	76.46	2.48	4.13	53.71	89.52
North	U31-L31	663	1.73	2.89	22.41	37.36	1.41	2.34	31.37	52.29	3.92	6.53	50.22	83.70	2.61	4.35	33.45	55.74	2.27	3.79	29.04	48.40	1.73	2.88	23.21	38.68	1.44	2.39	20.35	33.92	1.57	2.62	23.21	38.69
North	U32-L32	664	1.54	2.57	22.10	36.84	1.29	2.15	27.99	46.65	3.48	5.79	49.51	82.51	2.32	3.86	33.06	55.10	2.02	3.36	28.44	47.41	1.55	2.58	22.13	36.88	1.31	2.18	19.24	32.07	1.43	2.38	21.56	35.93
North	U33-L33	665	1.59	2.65	17.93	29.89	1.38	2.30	22.90	38.17	3.56	5.93	40.27	67.11	2.38	3.96	26.88	44.79	2.08	3.46	23.13	38.55	1.62	2.70	17.96	29.93	1.38	2.29	15.47	25.79	1.49	2.48	17.55	29.25
North	U34-L34	666	1.51	2.51	9.96	16.59	1.35	2.24	16.88	28.13	3.34	5.57	21.48	35.81	2.24	3.73	14.46	24.10	1.96	3.27	12.70	21.16	1.57	2.62	11.94	19.89	1.25	2.09	10.02	16.71	1.45	2.42	12.58	20.96
North	U35-L35	667	1.32	2.21	43.37	72.29	1.39	2.32	98.06	163.43	2.31	3.85	76.36	127.27	1.58	2.63	52.11	86.84	1.45	2.41	47.70	79.51	1.68	2.81	55.39	92.32	1.33	2.22	43.80	73.00	1.73	2.88	59.20	98.66
North	U36-L36	668	1.92	3.21	14.54	24.24	1.63	2.71	20.01	33.35	4.37	7.28	32.61	54.35	2.90	4.83	21.70	36.16	2.51	4.19	18.90	31.50	2.02	3.36	15.37	25.61	1.65	2.75	13.30	22.16	1.93	3.21	15.15	25.25
North	U37-L37	669	1.61	2.68	17.47	29.12	1.37	2.28	24.28	40.47	3.68	6.14	39.43	65.72	2.44	4.06	26.18	43.63	2.11	3.51	22.75	37.92	1.65	2.75	18.18	30.29	1.39	2.31	15.44	25.73	1.52	2.53	17.63	29.39
North	U38-L38	670	1.36	2.27	19.55	32.58	1.15	1.92	25.96	43.27	3.11	5.18	44.04	73.40	2.06	3.43	29.28	48.80	1.78	2.97	25.42	42.37	1.38	2.31	20.18	33.63	1.14	1.91	17.31	28.84	1.25	2.09	19.65	32.75
North	U39-L39	671	1.68	2.80	22.48	37.47	1.41	2.35	28.23	47.05	3.84	6.40	50.40	84.00	2.54	4.24	33.66	56.11	2.20	3.67	28.98	48.30	1.71	2.85	22.60	37.66	1.41	2.35	19.50	32.51	1.55	2.58	21.78	36.29
North	U40-L40	672	2.95	4.92	46.26	77.09	2.06	3.43	67.03	111.71	6.72	11.20	104.55	174.25	4.45	7.42	69.31	115.52	3.84	6.40	59.99	99.99	2.94	4.90	46.95	78.25	2.29	3.81	39.17	65.28	2.52	4.20	45.19	75.32
North	U41-L41	673	1.65	2.75	76.07	126.79	1.37	2.29	125.65	209.41	3.50	5.83	160.37	267.29	2.39	3.98	109.88	183.13	2.08	3.47	95.36	158.93	1.67	2.79	74.76	124.60	1.38	2.29	47.37	78.95	1.51	2.52	55.42	92.37
North	U42-L42	674	1.44	2.41	65.16	108.60	1.28	2.13	106.52	177.53	3.25	5.42	153.46	255.77	2.17	3.61	100.54	167.56	1.89	3.15	86.09	143.48	1.47	2.45	63.90	106.50	1.23	2.04	40.76	67.93	1.39	2.32	51.29	85.49
North	U43-L43	675	1.37	2.29	64.32	107.19	1.28	2.14	81.76	136.27	3.02	5.03	140.58	234.31	2.03	3.38	94.67	157.79	1.78	2.96	82.70	137.84	1.46	2.43	68.54	114.23	1.22	2.04	43.33	72.21	1.41	2.35	54.40	90.67
North	U44-L44	676	1.28	2.13	22.82	38.03	1.40	2.33	30.40	50.67	2.74	4.56	43.88	73.13	1.85	3.09	30.83	51.38	1.63	2.72	28.58	47.63	1.42	2.37	27.65	46.08	1.20	2.01	25.51	42.51	1.40	2.34	30.20	50.33
North	U45-L45	677	1.33	2.21	43.20	72.00	1.52	2.53	121.14	201.90	2.32	3.86	75.99	126.65	1.58	2.64	51.97	86.61	1.45	2.41	47.56	79.26	1.69	2.81	54.52	90.86	1.33	2.21	43.21	72.02	1.66	2.77	52.89	88.15
North	U46-L46	678	1.19	1.99	25.37	42.29	1.42	2.36	45.11	75.18	2.64	4.39	44.51	74.19	1.76	2.93	32.10	53.51	1.54	2.56	31.33	52.22	1.35	2.25	32.40	53.99	1.16	1.93	24.68	41.14	1.37	2.28	36.75	61.25
North	U47-L47	679	1.27	2.12	47.27	78.78	1.32	2.20	87.77	146.28	2.86	4.77	102.89	171.48	1.90	3.17	69.06	115.10	1.65	2.75	60.80	101.33	1.36	2.27	54.26	90.43	1.15	1.91	38.93	64.88	1.33	2.22	54.90	91.50
North	U48-L48	680	0.67	1.11	39.25	65.42	0.64	1.06	62.59	104.32	1.53	2.54	86.87	144.79	1.01	1.68	57.93	96.55	0.87	1.46	49.99	83.31	0.68	1.14	42.30	70.50	0.57	0.95	29.17	48.61	0.65	1.08	38.91	64.85
North	U49-L49	681	1.70	2.83	56.27	93.78	1.49	2.48	86.70	144.50	3.74	6.23	123.95	206.58	2.48	4.13	82.29	137.15	2.16	3.60	71.85	119.74	1.77	2.95	61.39	102.32	1.44	2.40	48.24	80.39	1.58	2.63	51.64	86.06
North	U50-L50	682	2.90	4.83	45.34	75.57	1.83	3.06	67.01	111.69	6.77	11.28	104.59	174.32	4.44	7.41	68.58	114.30	3.81	6.34	58.89	98.16	2.78	4.63	46.04	76.73	2.05	3.42	42.48	70.80	2.23	3.72	47.16	78.59
North	U51-L51	683	1.72	2.87	21.49	35.82	1.32	2.20	27.97	46.62	4.00	6.66	49.20	82.00	2.63	4.39	32.41	54.01	2.26	3.77	27.87	46.46	1.67	2.79	21.48	35.80	1.33	2.21	18.63	31.05	1.43	2.38	20.73	34.55
North	U52-L52	684	1.48	2.46	20.91	34.86	1.15	1.92	29.08	48.46	3.42	5.70	48.06	80.10	2.25	3.76	31.50	52.49	1.94	3.23	27.14	45.23	1.45	2.41	20.83	34.72	1.20	2.01	18.46	30.77	1.27	2.11	20.35	33.91
North	U53-L53	685	1.81	3.02	19.60	32.66	1.46	2.43	26.74	44.57	4.18	6.97	45.04	75.07	2.76	4.59	29.52	49.21	2.38	3.96	25.43	42.39	1.79	2.98	19.52	32.53	1.47	2.46	17.09	28.48	1.60	2.66	19.05	31.74
North	U54-L54	686	1.78	2.97	15.96	26.59	1.51	2.52	21.56	35.93	4.08	6.80	36.69	61.15	2.69	4.49	24.05	40.08	2.32	3.87	20.71	34.52	1.78	2.97	15.89	26.48	1.47	2.44	13.79	22.99	1.59	2.65	15.50	25.83
North	U55-L55	687	1.31	2.18	9.60	16.00	1.20	2.00	14.57	24.29	2.98	4.96	21.36	35.61	1.97	3.28	14.19	23.65	1.70	2.84	12.37	20.62	1.33	2.21	10.26	17.10	1.14	1.90	8.91	14.85	1.22	2.03	10.54	17.57
North	U56-L56	688	1.60	2.67	84.22	140.37	1.91	3.18	2168.04	3613.40	2.85	4.75	148.60	247.67	1.93	3.22	101.07	168.45	1.74	2.91	92.16	153.60	2.00	3.34	107.45	179.08	1.60	2.67	85.14	141.90	1.99	3.32	105.59	175.99
North	U57-L57	689	1.03	1.72	16.86	28.10	0.84	1.41	20.53	34.21	2.37	3.95	37.24	62.06	1.56	2.61	24.89	41.48	1.35	2.25	21.71	36.18	1.05	1.75	17.58	29.30	0.87	1.46	14.20	23.67	0.96	1.59	16.38	27.30
North	U58-L58	690	1.80	3.00	24.73	41.21	1.46	2.44	29.10	48.50	4.16	6.93	56.71	94.52	2.73	4.56	37.40	62.33	2.35	3.92	32.15	53.59	1.80	2.99	24.75	41.25	1.48	2.47	20.59	34.32	1.67	2.78	23.12	38.53
North	U59-L59	691	1.83	3.06	26.82	44.71	1.44	2.40	32.68	54.47	4.25	7.09	61.47	102.45	2.80	4.66	40.50	67.51	2.40	4.00	34.82	58.04	1.80	3.01	26.79	44.65	1.49	2.48	22.59	37.65	1.63	2.72	25.27	42.11
North	U60-L60	692	1.60	2.67	20.54	34.23	1.27	2.12	28.68	47.80	3.71	6.18	47.25	78.74	2.44	4.07	30.97	51.62	2.10	3.49	26.66	44.43	1.57	2.61	20.48	34.13	1.30	2.17	17.92	29.87	1.37	2.28	20.02	33.36
North	U61-L61	693	1.85	3.08	15.81	26.34	1.52	2.53	23.19	38.65	4.28	7.14	36.36	60.59	2.82	4.69	23.83	39.72	2.42	4.03	20.51	34.19	1.81	3.02	15.76	26.27	1.45	2.42	13.91	23.18	1.56	2.59	15.43	25.72
North	U62-L62	694	2.85	4.74	24.61	41.01	1.92	3.21	34.51	57.51	6.63	11.05	56.61	94.35	4.34	7.23	37.23	62.05	3.72	6.20	32.00	53.33	2.75	4.59	25.01	41.68	2.21	3.68	21.40	35.67	2.40	4.00	24.46	40.77
North	U63-L63	695	2.09	3.48	69.79	116.32	1.78	2.97	105.52	175.86	4.63	7.72	158.98	264.96	3.07	5.11	103.34	172.23	2.66	4.44	89.79	149.64	2.33	3.88	77.88	129.80	1.76	2.94	51.09	85.14	2.27	3.79	85.33	142.21
North	U64-L64	696	1.75	2.92	67.43	112.38	1.49	2.48	102.86	171.43	3.92	6.53	154.29	257.14	2.59	4.32	100.14	166.90	2.25	3.75	87.19	145.31	1.80	3.01	70.39	117.31	1.46	2.44	44.52	74.19	1.63	2.72	55.11	91.84
North	U65-L65	697	1.16	1.94	67.43	112.38	1.05	1.74	99.00	164.99	2.66	4.44	159.17	265.29	1.76	2.94	104.70	174.50	1.51	2.52	88.88	148.13	1.20	1.99	66.52	110.87	0.99	1.64	42.36	70.61	1.13	1.88	53.42	89.04
North	U66-L66	698	1.37	2.28	59.91	99.86	1.20	2.00	83.37	138.95	3.08	5.14	138.22	230.36	2.04	3.41	90.93	151.55	1.76	2.94	77.71	129.52	1.47	2.45	65.87	109.78	1.22	2.03	41.13	68.54	1.41	2.35	51.21	85.35
North	U67-L67	699	1.43	2.39	23.51	39.18	1.46	2.43	37.36	62.26	3.19	5.31	45.35	75.58	2.12	3.53	31.13	51.88	1.83	3.06	28.48	47.47	1.62	2.71	28.34	47.24	1.37	2.29	27.40	45.67	1.60	2.67	32.28	53.79
North	U68-L68	700	1.90	3.17	55.84	93.06	2.07	3.46	84.83	141.39	3.42	5.70	99.22	165.36	2.30	3.83	66.17	110.28	2.07	3.44	59.81	99.69	2.37	3.96	70.00	116.66	1.90	3.17	54.03	90.06	2.41	4.01	67.94	113.24
North	U69-L69	701	1.35	2.24	25.56	42.60	1.47	2.44	19.19	31.98	2.97	4.95	49.20	81.99	1.98	3.30	33.20	55.33	1.71	2.85	30.45	50.75	1.49	2.49	30.58	50.97	1.28	2.13	23.68	39.46	1.52	2.54	30.33	50.55
North	U70-L70	702	1.32	2.21	48.58	80.97	1.29	2.14	71.59	119.31	2.98	4.96	108.46	180.77	1.98	3.30	72.25	120.41	1.70	2.84	62.23	103.71	1.41	2.35	51.85	86.41	1.18	1.96	36.47	60.78	1.36	2.27	49.01	81.68
North	U71-L71	703	1.88	3.13	61.39	102.31	1.73	2.88	60.76	101.27	4.27	7.12	139.70	232.83	2.83	4.71	92.50	154.16	2.44	4.07	80.01	133.35	1.93	3.22	63.51	105.85	1.60	2.67	43.37	72.28	1.83	3.05	53.97	89.95
North	U72-L72	704	1.74	2.90	67.01	111.69	1.45	2.41	123.17	205.29	3.88	6.47	150.47	250.78	2.58	4.29	100.17	166.95	2.23	3.71	86.36	143.93	1.78	2.96	68.52	114.21	1.46	2.43	49.91	83.18	1.61	2.69	57.10	95.16
North	U73-L73	705	2.12	3.54	69.80	116.34	1.81	3.02	93.07	155.12	4.68	7.80	153.75	256.26	3.11	5.18	102.68	171.13	2.69	4.48	88.19	146.99	2.34	3.90	77.99	129.99	1.76	2.93	45.94	76.57	2.07	3.46	58.77	97.95
North	U74-L74	706	3.14	5.23	30.67	51.12	1.85	3.09	33.14	55.23	7.35	12.24	70.55	117.58	4.81	8.02	46.43	77.38	4.13	6.88	40.05	66.75	3.01	5.02	30.72	51.20	2.15	3.58	25.74	42.90	2.36	3.94	28.56	47.61
North	U75-L75	707	2.23	3.72	16.52	27.53	1.31	2.19	17.91	29.85	5.20	8.67	38.17	63.61	3.43	5.71	24.97	41.61	2.93	4.89	21.46	35.77	2.15	3.58	16.17	26.95	1.55	2.59	13.92	23.21	1.69	2.82	15.22	25.36
North	U76-L76	708	1.87	3.11	16.57	27.62	1.12	1.86	17.62	29.36	4.35	7.26	38.53	64.21	2.87	4.78	25.23	42.06	2.46	4.09	21.63	36.05	1.80	3.00	16.04	26.74	1.33	2.22	13.88	23.14	1.43	2.38	14.79	24.65
North	U77-L77	709	2.44	4.06	16.58	27.63	1.49	2.48	17.22	28.70	5.68	9.46	38.64	64.40	3.74	6.24	25.28	42.13	3.20	5.34	21.68	36.13	2.35	3.92	15.95	26.59	1.78	2.96	13.62	22.70	1.89	3.16	14.53	24.22
North	U78-L78	710	2.41	4.02	14.06	23.43	1.52	2.53	14.63	24.39	5.61	9.35	32.78	54.63	3.70	6.17	21.44	35.73	3.17	5.28	18.38	30.64	2.34	3.89	13.53	22.55	1.76	2.93	11.56	19.26	1.90	3.17	12.33	20.55
North	U79-L79	711	2.50	4.16	11.46	19.09	1.59	2.65	11.93	19.88	5.80	9.67	26.71	44.52	3.83	6.38	17.47	29.12	3.28	5.46	14.98	24.97	2.43	4.04	11.03	18.38	1.83	3.05	9.42	15.70	1.99	3.32	10.05	16.75
North	U80-L80	712	3.21	5.36	10.07	16.79	2.23	3.72	10.49	17.48	7.41	12.35	23.48	39.14	4.90	8.16	15.36	25.60	4.20	7.00	13.17	21.95	3.15	5.26	9.69	16.15	2.39	3.99	8.29	13.81	2.64	4.40	8.84	14.73
North	U81-L81	713	3.02	5.03	5.10	8.49	2.48	4.13	6.05	10.08	6.95	11.58	11.66	19.44	4.58	7.64	7.69	12.82	3.94	6.57	6.65	11.08	2.98	4.96	5.15	8.59	2.41	4.01	4.32	7.20	2.67	4.44	4.96	8.27
North	U82-L82	714	1.97	3.28	55.84	93.06	2.07	3.45	1063.99	1773.31	3.55	5.92	103.41	172.35	2.39	3.98	68.74	114.56	2.14	3.57	61.69	102.82	2.45	4.08	70.02	116.71	1.96	3.26	55.59	92.65	2.46	4.10	70.40	117.34
North	U83-L83	715	1.37	2.29	17.62	29.36	0.78	1.29	21.46	35.77	3.18	5.31	39.76	66.26	2.10	3.49	26.30	43.83	1.80	3.01	22.85	38.08	1.35	2.26	18.13	30.21	0.89	1.49	14.84	24.73	1.07	1.78	17.46	29.09

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	U84-L84	716	1.83	3.05	26.85	44.75	1.04	1.74	29.44	49.07	4.25	7.09	61.75	102.91	2.80	4.66	40.41	67.35	2.41	4.01	34.79	57.98	1.79	2.98	26.61	44.36	1.26	2.10	20.55	34.25	1.38	2.31	23.26	38.77
North	U85-L85	717	2.76	4.61	31.59	52.64	1.61	2.68	34.94	58.23	6.43	10.72	72.72	121.20	4.23	7.05	47.59	79.31	3.64	6.06	40.96	68.27	2.70	4.49	31.14	51.89	1.94	3.24	25.33	42.21	2.11	3.51	28.12	46.87
North	U86-L86	718	2.26	3.76	24.89	41.49	1.38	2.29	27.92	46.53	5.26	8.77	57.61	96.01	3.46	5.77	37.77	62.94	2.98	4.96	32.42	54.03	2.19	3.65	24.32	40.53	1.62	2.69	20.45	34.09	1.75	2.92	22.35	37.26
North	U87-L87	719	1.98	3.29	16.03	26.72	1.23	2.04	17.60	29.34	4.60	7.67	37.36	62.27	3.03	5.05	24.46	40.76	2.60	4.34	20.96	34.94	1.92	3.20	15.43	25.72	1.43	2.39	13.22	22.03	1.52	2.54	14.07	23.46
North	U88-L88	720	1.86	3.11	9.41	15.68	1.20	2.00	10.05	16.75	4.33	7.21	21.93	36.56	2.85	4.75	14.36	23.93	2.45	4.08	12.31	20.51	1.81	3.02	9.06	15.10	1.34	2.23	7.77	12.95	1.45	2.41	8.28	13.79
North	U89-L89	721	2.44	4.06	8.11	13.51	1.70	2.83	8.65	14.42	5.65	9.42	18.90	31.49	3.72	6.20	12.37	20.62	3.20	5.33	10.60	17.67	2.39	3.98	7.81	13.01	1.77	2.95	6.70	11.16	1.93	3.22	7.13	11.89
North	U90-L90	722	4.11	6.84	2.91	4.86	3.16	5.27	3.00	5.00	9.52	15.86	6.78	11.29	6.23	10.38	4.44	7.39	5.35	8.92	3.81	6.35	3.97	6.62	2.83	4.71	3.05	5.08	2.39	3.98	3.38	5.63	2.56	4.27
North	U91-L91	723	2.05	3.41	12.01	20.02	3.26	5.44	11.71	19.52	4.55	7.58	27.62	46.03	3.01	5.02	18.28	30.46	2.61	4.35	15.66	26.11	2.32	3.86	12.08	20.13	2.37	3.95	10.08	16.80	3.19	5.32	11.28	18.80
North	U92-L92	724	1.57	2.61	58.05	96.76	1.72	2.86	67.22	112.03	3.49	5.81	131.99	219.98	2.31	3.85	85.83	143.05	2.00	3.34	74.61	124.35	1.76	2.93	64.89	108.14	1.51	2.51	51.01	85.02	1.78	2.97	63.30	105.50
North	U93-L93	725	1.60	2.67	62.00	103.34	1.39	2.32	92.89	154.81	3.58	5.97	141.60	236.01	2.37	3.95	92.61	154.34	2.05	3.42	79.89	133.14	1.78	2.97	70.03	116.72	1.35	2.24	40.63	67.71	1.54	2.57	48.29	80.48
North	U94-L94	726	1.70	2.83	83.03	138.39	1.24	2.07	110.39	183.98	3.88	6.46	190.78	317.96	2.57	4.28	125.10	208.50	2.21	3.68	107.47	179.11	1.76	2.93	89.41	149.01	1.31	2.19	48.83	81.39	1.45	2.42	54.87	91.44
North	U95-L95	727	1.50	2.50	77.08	128.47	1.07	1.78	67.70	112.83	3.49	5.81	180.01	300.01	2.30	3.83	118.98	198.31	1.97	3.28	101.00	168.34	1.47	2.45	75.83	126.38	1.11	1.85	40.83	68.06	1.28	2.13	51.16	85.27
North	U96-L96	728	3.32	5.53	91.33	152.21	2.23	3.71	100.72	167.86	7.67	12.78	212.89	354.82	5.07	8.45	140.80	234.66	4.34	7.23	119.53	199.22	3.29	5.49	90.64	151.07	2.58	4.29	50.93	84.89	2.86	4.77	62.73	104.56
North	U97-L97	729	1.19	1.98	56.71	94.52	1.01	1.68	69.29	115.49	2.72	4.54	131.57	219.28	1.80	3.01	86.95	144.91	1.55	2.58	73.98	123.30	1.20	2.00	57.46	95.77	0.97	1.62	34.94	58.23	1.07	1.78	41.72	69.53
North	U98-L98	730	1.26	2.10	34.91	58.18	1.24	2.06	55.10	91.83	2.87	4.78	67.36	112.27	1.90	3.17	46.71	77.85	1.63	2.72	42.47	70.78	1.30	2.16	38.97	64.96	1.07	1.78	30.89	51.49	1.24	2.07	38.34	63.90
North	U99-L99	731	1.39	2.31	13.19	21.98	1.55	2.58	22.61	37.69	3.13	5.22	26.58	44.30	2.09	3.48	18.10	30.17	1.79	2.99	16.25	27.09	1.47	2.46	18.79	31.32	1.23	2.05	16.03	26.72	1.55	2.59	23.37	38.96
North	U100-L100	732	1.34	2.24	43.28	72.14	1.67	2.78	746.31	1243.84	2.43	4.04	79.58	132.64	1.63	2.72	52.95	88.26	1.46	2.44	47.56	79.26	1.67	2.79	54.41	90.69	1.34	2.24	43.15	71.92	2.16	3.60	114.33	190.54
North	U101-L101	733	1.47	2.45	11.76	19.60	1.71	2.86	22.22	37.03	3.31	5.52	24.07	40.11	2.19	3.66	16.58	27.64	1.91	3.18	14.43	24.05	1.57	2.61	16.86	28.09	1.34	2.23	18.25	30.42	1.71	2.84	26.78	44.64
North	U102-L102	734	1.29	2.15	33.97	56.61	1.23	2.06	57.42	95.69	2.95	4.91	68.99	114.99	1.95	3.24	46.41	77.35	1.69	2.81	42.33	70.55	1.33	2.22	38.74	64.57	1.11	1.85	38.63	64.39	1.30	2.17	51.37	85.62
North	U103-L103	735	1.22	2.03	70.42	117.37	1.03	1.72	125.19	208.65	2.80	4.66	161.78	269.64	1.84	3.07	107.44	179.07	1.59	2.65	92.25	153.75	1.23	2.05	71.64	119.39	1.00	1.67	48.77	81.29	1.11	1.84	59.18	98.64
North	U104-L104	736	1.88	3.13	93.90	156.50	1.52	2.53	114.64	191.07	4.33	7.21	217.01	361.68	2.85	4.75	144.41	240.68	2.46	4.10	123.87	206.45	1.87	3.12	92.05	153.42	1.46	2.44	53.17	88.62	1.63	2.72	65.79	109.65
North	U105-L105	737	1.67	2.79	107.08	178.46	1.22	2.03	172.31	287.19	3.90	6.50	244.68	407.81	2.56	4.27	162.24	270.40	2.20	3.67	140.70	234.51	1.64	2.73	103.34	172.24	1.23	2.05	52.12	86.86	1.43	2.38	68.56	114.27
North	U106-L106	738	1.58	2.63	105.39	175.64	1.15	1.92	166.66	277.77	3.57	5.95	233.89	389.82	2.37	3.95	155.98	259.96	2.04	3.40	134.22	223.70	1.64	2.73	114.26	190.43	1.18	1.97	64.47	107.46	1.36	2.26	72.94	121.56
North	U107-L107	739	1.72	2.87	96.80	161.34	1.41	2.35	189.51	315.85	3.83	6.38	213.84	356.39	2.55	4.24	142.78	237.97	2.20	3.66	122.50	204.17	1.87	3.11	107.51	179.19	1.40	2.34	63.22	105.36	1.59	2.66	74.66	124.43
North	U108-L108	740	2.34	3.91	73.44	122.40	2.37	3.95	150.66	251.09	5.19	8.65	162.52	270.87	3.44	5.74	108.48	180.80	2.98	4.96	93.04	155.07	2.59	4.32	81.01	135.01	2.20	3.67	64.76	107.93	2.54	4.24	87.96	146.60
North	U109-L109	741	4.44	7.39	14.12	23.54	9.19	15.32	14.78	24.63	9.66	16.11	32.48	54.13	6.40	10.67	21.38	35.64	5.56	9.27	18.37	30.62	5.06	8.43	14.11	23.51	5.70	9.49	11.46	19.10	7.62	12.70	12.73	21.22
North	U110-L110	742	3.75	6.24	3.13	5.22	3.02	5.03	3.23	5.38	8.73	14.55	7.28	12.13	5.71	9.52	4.76	7.94	4.90	8.17	4.09	6.82	3.61	6.02	3.04	5.06	2.77	4.61	2.57	4.28	3.04	5.06	2.76	4.59
North	U111-L111	743	2.69	4.48	10.53	17.55	1.85	3.08	11.46	19.09	6.22	10.37	24.55	40.91	4.09	6.82	16.05	26.76	3.52	5.87	13.77	22.94	2.61	4.35	10.13	16.89	1.94	3.23	8.61	14.35	2.15	3.59	9.18	15.31
North	U112-L112	744	2.28	3.80	15.97	26.62	1.43	2.38	17.17	28.61	5.30	8.84	37.23	62.06	3.48	5.81	24.35	40.59	3.00	5.00	20.88	34.80	2.20	3.66	15.37	25.61	1.61	2.69	13.06	21.76	1.77	2.96	13.92	23.21
North	U113-L113	745	3.51	5.85	33.68	56.13	2.07	3.46	37.30	62.17	8.20	13.67	78.54	130.91	5.39	8.98	51.37	85.61	4.63	7.72	44.04	73.40	3.36	5.60	32.38	53.97	2.50	4.16	27.50	45.84	2.81	4.68	29.33	48.88
North	U114-L114	746	3.41	5.68	101.32	168.86	1.92	3.20	115.68	192.80	7.98	13.29	237.56	395.93	5.24	8.73	155.26	258.77	4.50	7.51	133.03	221.71	3.25	5.42	96.74	161.24	2.41	4.01	79.18	131.96	2.61	4.36	85.74	142.91
North	U115-L115	747	3.12	5.20	111.99	186.64	1.70	2.84	292.21	487.02	7.31	12.19	243.96	406.60	4.81	8.01	163.35	272.25	4.12	6.87	143.13	238.56	2.99	4.98	125.84	209.74	2.13	3.56	111.68	186.14	2.35	3.92	130.10	216.84
North	U116-L116	748	2.05	3.41	39.38	65.63	1.29	2.15	85.56	142.60	4.78	7.96	88.38	147.30	3.14	5.24	58.71	97.85	2.70	4.50	50.99	84.98	1.98	3.31	42.14	70.23	1.43	2.39	43.19	71.99	1.58	2.63	47.44	79.06
North	U117-L117	749	2.07	3.44	23.69	39.48	1.40	2.33	51.46	85.77	4.80	7.99	53.53	89.22	3.16	5.27	35.44	59.06	2.72	4.53	30.69	51.16	2.03	3.39	24.80	41.33	1.47	2.46	27.75	46.26	1.73	2.88	30.51	50.85
North	U118-L118	750	1.77	2.96	162.78	271.30	2.18	3.64	301.00	501.66	3.14	5.24	293.78	489.63	2.13	3.56	201.09	335.16	1.93	3.22	181.01	301.68	2.23	3.71	207.42	345.70	1.78	2.96	165.44	275.73	2.88	4.80	207.65	346.08
North	U119-L119	751	3.81	6.35	4.47	7.45	5.54	9.24	5.81	9.69	8.83	14.72	10.06	16.77	5.80	9.67	6.68	11.14	4.99	8.32	5.80	9.67	3.78	6.30	4.62	7.70	3.69	6.15	4.11	6.84	4.32	7.21	4.84	8.06
North	U120-L120	752	2.00	3.34	7.69	12.81	1.89	3.15	9.46	15.76	4.66	7.76	17.61	29.35	3.06	5.09	11.61	19.34	2.63	4.38	10.00	16.66	1.97	3.28	7.79	12.98	1.81	3.01	6.71	11.18	1.87	3.11	7.28	12.13
North	U121-L121	753	1.96	3.27	12.38	20.63	1.53	2.56	14.15	23.59	4.59	7.65	28.84	48.07	3.01	5.02	18.88	31.46	2.58	4.31	16.18	26.97	1.90	3.17	11.89	19.81	1.50	2.51	10.14	16.91	1.63	2.71	10.81	18.01
North	U122-L122	754	2.27	3.78	17.16	28.60	1.63	2.72	19.83	33.06	5.32	8.87	39.98	66.63	3.49	5.81	26.17	43.62	2.99	4.99	22.44	37.39	2.18	3.64	16.49	27.48	1.66	2.76	14.07	23.46	1.84	3.07	15.00	25.00
North	U123-L123	755	2.15	3.59	18.31	30.51	1.47	2.46	21.42	35.71	5.07	8.45	42.64	71.07	3.32	5.53	27.91	46.52	2.84	4.74	23.94	39.90	2.05	3.42	17.60	29.33	1.55	2.58	15.03	25.04	1.75	2.92	16.02	26.70
North	U124-L124	756	2.67	4.46	22.49	37.48	1.77	2.95	26.90	44.84	6.32	10.53	52.40	87.33	4.13	6.89	34.27	57.11	3.54	5.89	29.39	48.98	2.53	4.21	21.64	36.07	1.86	3.10	18.41	30.68	2.02	3.37	19.64	32.73
North	U125-L125	757	2.46	4.10	24.58	40.97	1.59	2.64	30.46	50.76	5.83	9.72	56.89	94.82	3.81	6.36	37.47	62.45	3.26	5.43	32.13	53.55	2.31	3.85	23.66	39.43	1.67	2.78	20.12	33.53	1.80	3.00	21.46	35.77
North	U126-L126	758	4.53	7.56	35.60	59.33	2.68	4.47	45.88	76.47	10.80	18.00	84.90	141.51	7.06	11.76	56.16	93.61	6.03	10.04	48.63	81.04	4.20	7.00	36.76	61.26	2.93	4.88	31.25	52.08	3.12	5.21	34.57	57.62
South	U0-L1	759	44.15	73.58	1.63	2.71	73.27	122.12	1.51	2.52	91.23	152.04	3.62	6.03	62.73	104.55	2.42	4.04	55.16	91.94	2.12	3.53	52.21	87.01	1.68	2.81	47.20	78.66	1.43	2.39	59.29	98.81	1.63	2.72
South	U1-L2	760	49.54	82.56	1.59	2.64	87.59	145.98	1.57	2.61	102.01	170.02	3.48	5.80	70.04	116.73	2.34	3.90	61.88	103.13	2.05	3.41	59.37	98.94	1.69	2.81	50.79	84.65	1.46	2.43	62.57	104.28	1.67	2.79
South	U2-L3	761	26.36	43.93	1.35	2.25	59.84	99.73	1.46	2.44	54.48	90.79	2.89	4.81	37.17	61.95	1.96	3.26	33.04	55.07	1.71	2.86	35.21	58.69	1.50	2.51	34.98	58.30	1.34	2.23	39.40	65.67	1.50	2.50
South	U3-L4	762	6.06	10.10	1.89	3.15	13.84	23.07	2.60	4.33	12.98	21.64	3.90	6.50	8.75	14.59	2.68	4.46	7.73	12.89	2.36	3.94	7.71	12.85	2.31	3.86	9.25	15.41	2.01	3.36	11.50	19.16	2.33	3.88
South	U4-L5	763	1.72	2.87	7.56	12.60	2.37	3.96	15.32	25.54	3.80	6.34	14.42	24.03	2.54	4.24	10.13	16.88	2.23	3.71	9.37	15.62	1.97	3.29	11.00	18.33	1.77	2.94	12.15	20.26	2.08	3.47	17.80	29.66
South	U6-L5	764	23.98	39.96	1.37	2.28	36.75	61.25	1.43	2.38	41.86	69.76	3.06	5.11	30.65	51.09	2.04	3.40	29.91	49.84	1.78	2.96	29.67	49.46	1.48	2.46	29.74	49.57	1.26	2.11	37.80	63.01	1.49	2.48
South	U7-L6	765	57.80	96.33	1.65	2.74	125.42	209.03	1.54	2.57	125.06	208.44	3.73	6.22	84.26	140.44	2.48	4.13	74.44	124.06	2.15	3.58	68.35	113.91	1.72	2.87	45.61	76.02	1.44	2.40	57.37	95.62	1.67	2.78
South	U8-L7	766	62.24	103.74	1.80	3.01	115.96	193.27	1.54	2.57	140.60	234.33	4.13	6.88	93.31	155.52	2.73	4.55	81.07	135.12	2.36	3.94	66.35	110.58	1.84	3.07	44.30	73.83	1.53	2.54	48.86	81.44	1.67	2.78
South	U9-L8	767	56.74	94.57	1.96	3.27	130.09	216.81	1.63	2.72	123.07	205.11	4.30	7.17	82.89	138.16	2.89	4.81	73.25	122.09	2.54	4.24	60.60	101.01	2.04	3.40	36.55	60.92	1.59	2.65	44.18	73.63	1.79	2.98
South	U10-L9	768	48.59	80.98	1.90	3.16	124.91	208.18	1.72	2.86	105.93	176.55	4.11	6.84	70.93	118.22	2.76	4.60	62.26	103.76	2.43	4.05	59.07	98.45	2.27	3.79	31.75	52.91	1.60	2.67	41.18	68.63	1.99	3.32
South	U10-L11	769	5.61	9.36	2.01	3.35	10.42	17.36	1.87	3.11	12.86	21.44	4.56	7.59	8.50	14.17	3.03	5.05	7.33	12.21	2.64	4.40	5.56	9.26	2.01	3.36	4.86	8.10	1.67	2.78	6.29	10.48	1.83	3.05
South	U11-L12	770	6.94	11.57	1.58	2.64	8.98	14.97	1.49	2.48	15.60	26.01	3.56	5.93	10.36	17.27	2.37	3.96	8.93	14.88	2.07	3.44	7.02	11.69	1.60	2.66	6.22	10.36	1.35	2.24	7.07	11.79	1.47	2.45
South	U12-L13	771	6.37	10.62	1.56	2.59	8.34	13.90	1.48	2.47	14.32	23.86	3.48	5.79	9.51	15.85	2.32	3.87	8.19	13.66	2.03	3.38	6.44	10.73	1.59	2.65	5.81	9.68	1.39	2.31	6.48	10.81	1.47	2.45
South	U13-L14	772	4.62	7.69	1.39	2.32	6.14	10.23	1.24	2.06	10.38	17.29	3.08	5.13	6.89	11.48	2.06	3.44	5.94	9.90	1.81	3.01	4.66	7.77	1.44	2.41	4.19	6.99	1.16	1.94	4.69	7.82	1.32	2.20
South	U14-L15	773	3.06	5.10	1.93	3.22	5.53	9.22	1.45	2.42	6.77	11.29	4.22	7.04	4.52	7.53	2.84	4.74	3.94	6.57	2.51	4.18	3.38	5.63	2.08	3.47	3.11	5.19	1.57	2.62	3.55	5.92	1.81	3.01
South	U16-L15	774	2.61	4.36	2.15	3.58	5.98	9.97	2.01	3.35	5.96	9.94	4.83	8.05	3.95	6.58	3.21	5.35	3.41	5.69	2.79	4.66	2.62	4.36	2.32	3.87	2.25	3.74	1.92	3.19	2.73	4.55	2.36	3.94
South	U17-L16	775	3.40	5.66	1.54	2.56	7.83	13.04	1.49	2.49	7.79	12.98	3.48	5.79	5.15	8.58	2.31	3.85	4.44	7.41	2.00	3.34	3.36	5.61	1.61	2.68	2.94	4.89	1.35	2.26	4.56	7.59	1.53	2.56
South	U18-L17	776	4.90	8.16	1.56	2.59	9.96	16.60	1.46	2.44	11.19	18.65	3.55	5.91	7.40	12.34	2.35	3.92	6.39	10.65	2.04	3.39	4.87	8.12	1.60	2.67	4.28	7.14	1.37	2.29	5.89	9.82	1.47	2.44
South	U19-L18	777	5.57	9.29	1.76	2.93	7.95	13.26	1.67	2.78	12.60	21.00	4.00	6.67	8.36	13.93	2.65	4.42	7.21	12.01	2.30	3.83	5.60	9.34	1.80	3.01	4.96	8.27	1.49	2.48	5.77	9.61	1.64	2.74
South	U20-L19	778	5.88	9.80	2.84	4.74	8.08	13.47	2.78	4.63	13.22	22.03	6.47	10.79	8.78	14.63	4.29	7.15	7.57	12.61	3.72	6.19	5.95	9.91	2.92	4.87	5.40	8.99	2.43	4.05	6.00	9.99	2.67	4.45
South	U20-L21	779	47.43	79.05	2.69	4.48	109.78	182.96	2.60	4.33	97.01	161.68	5.50	9.16	67.08	111.81	3.78	6.31	57.93	96.56	3.29	5.48	58.40	97.33	3.18	5.30	37.37	62.29	2.42	4.03	49.36	82.27	2.97	4.95
South	U21-L22	780	45.45	75.75	1.68	2.80	83.60	139.34	1.49	2.48	91.16	151.93	3.43	5.72	63.18	105.31	2.38	3.96	54.96	91.60	2.06	3.43	47.26	78.76	1.75	2.91	28.95	48.25	1.44	2.40	36.11	60.18	1.65	2.75

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																											
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	U22-L23	781	48.40	80.67	1.56	2.59	81.26	135.43	1.50	2.51	106.51	177.52	3.43	5.71	71.35	118.92	2.30	3.84	62.64	104.39	2.02	3.37	51.79	86.31	1.65	2.74	32.87	54.78	1.39	2.32	44.00	73.33	1.62	2.70
South	U23-L24	782	32.69	54.48	1.39	2.32	60.23	100.38	1.47	2.45	70.53	117.56	2.99	4.99	47.57	79.28	2.03	3.38	42.07	70.12	1.77	2.96	37.99	63.31	1.55	2.58	33.32	55.53	1.35	2.24	40.06	66.76	1.56	2.59
South	U24-L25	783	8.19	13.65	1.73	2.89	13.44	22.41	2.11	3.51	15.16	25.27	3.59	5.98	10.73	17.89	2.46	4.10	10.10	16.83	2.17	3.61	10.44	17.40	2.11	3.52	12.20	20.34	1.68	2.81	15.51	25.85	2.14	3.57
South	U26-L25	784	3.86	6.44	3.03	5.05	7.60	12.67	5.13	8.56	7.33	12.22	6.22	10.36	5.16	8.60	4.24	7.07	4.75	7.91	3.80	6.34	5.65	9.42	4.40	7.33	4.27	7.12	3.12	5.20	6.78	11.30	4.76	7.94
South	U27-L26	785	17.70	29.50	0.78	1.30	32.05	53.41	0.94	1.56	35.06	58.44	1.68	2.80	24.71	41.18	1.13	1.88	22.55	37.58	1.00	1.66	20.02	33.37	0.95	1.58	16.95	28.24	0.78	1.30	20.74	34.57	0.96	1.60
South	U28-L27	786	26.06	43.44	1.22	2.03	54.57	90.95	1.33	2.22	57.81	96.34	2.69	4.49	38.58	64.30	1.80	3.00	33.65	56.08	1.57	2.62	28.87	48.11	1.38	2.30	21.72	36.20	1.18	1.96	29.52	49.20	1.39	2.31
South	U29-L28	787	29.77	49.62	1.52	2.53	58.96	98.27	1.52	2.53	67.48	112.47	3.42	5.70	44.72	74.53	2.27	3.79	38.73	64.55	1.98	3.29	31.35	52.24	1.63	2.71	22.12	36.86	1.36	2.27	29.74	49.57	1.61	2.68
South	U30-L29	788	27.69	46.15	1.69	2.81	50.13	83.56	1.60	2.66	59.07	98.45	3.59	5.98	39.99	66.65	2.43	4.06	35.49	59.16	2.17	3.61	29.53	49.21	1.83	3.05	20.34	33.91	1.49	2.48	24.76	41.27	1.74	2.90
South	U30-L31	789	6.99	11.64	1.68	2.81	10.45	17.42	1.56	2.61	15.70	26.16	3.81	6.34	10.44	17.40	2.53	4.22	9.08	15.13	2.21	3.68	7.26	12.10	1.69	2.81	6.38	10.63	1.40	2.33	7.26	12.10	1.53	2.55
South	U31-L32	790	10.77	17.95	1.79	2.98	15.57	25.95	1.67	2.79	24.13	40.22	4.03	6.71	16.07	26.79	2.68	4.47	13.95	23.26	2.34	3.89	11.15	18.58	1.80	3.01	9.75	16.26	1.52	2.53	11.12	18.54	1.66	2.76
South	U32-L33	791	10.94	18.23	1.24	2.07	13.30	22.17	1.16	1.94	24.48	40.81	2.77	4.61	16.36	27.26	1.85	3.08	14.06	23.44	1.61	2.68	10.95	18.26	1.26	2.11	9.44	15.73	1.10	1.83	10.55	17.58	1.17	1.96
South	U33-L34	792	9.46	15.76	1.70	2.83	11.24	18.73	1.62	2.70	21.21	35.35	3.75	6.25	14.16	23.60	2.52	4.19	12.18	20.30	2.20	3.66	9.49	15.81	1.76	2.94	8.04	13.40	1.47	2.45	9.07	15.12	1.66	2.77
South	U34-L35	793	3.26	5.43	2.30	3.83	6.77	11.29	2.37	3.95	7.20	12.00	5.00	8.33	4.81	8.02	3.37	5.62	4.20	6.99	2.98	4.96	3.63	6.05	2.48	4.13	3.57	5.95	2.06	3.44	4.10	6.83	2.54	4.24
South	U36-L35	794	5.32	8.87	1.41	2.36	7.76	12.93	1.45	2.42	11.92	19.87	3.17	5.29	7.93	13.22	2.11	3.52	6.92	11.53	1.84	3.06	5.60	9.33	1.53	2.55	4.85	8.08	1.31	2.18	5.50	9.17	1.57	2.62
South	U37-L36	795	8.90	14.84	1.53	2.55	12.89	21.49	1.48	2.47	20.10	33.50	3.46	5.76	13.35	22.24	2.30	3.83	11.60	19.33	1.99	3.32	9.25	15.42	1.60	2.67	7.97	13.29	1.35	2.25	9.08	15.13	1.53	2.55
South	U38-L37	796	10.97	18.29	1.70	2.84	15.05	25.09	1.58	2.63	24.73	41.22	3.88	6.47	16.44	27.40	2.57	4.28	14.27	23.79	2.23	3.71	11.30	18.83	1.76	2.93	9.79	16.31	1.49	2.48	11.08	18.46	1.60	2.67
South	U39-L38	797	9.73	16.21	1.72	2.86	12.62	21.04	1.62	2.70	21.82	36.37	3.91	6.52	14.57	24.29	2.59	4.32	12.53	20.89	2.25	3.74	9.75	16.25	1.76	2.93	8.52	14.20	1.45	2.42	9.49	15.82	1.60	2.67
South	U40-L39	798	5.64	9.40	1.82	3.04	7.23	12.05	1.74	2.91	12.64	21.07	4.14	6.90	8.45	14.08	2.74	4.57	7.26	12.10	2.38	3.97	5.66	9.43	1.88	3.13	4.95	8.25	1.56	2.60	5.51	9.18	1.72	2.87
South	U40-L41	799	31.75	52.92	1.94	3.23	61.54	102.57	1.63	2.72	63.97	106.61	3.88	6.47	44.27	73.79	2.70	4.50	38.50	64.17	2.34	3.90	32.09	53.49	2.01	3.34	20.52	34.20	1.63	2.72	24.64	41.07	1.82	3.03
South	U41-L42	800	38.95	64.92	1.84	3.07	81.12	135.20	1.64	2.74	91.75	152.91	4.14	6.90	60.10	100.17	2.76	4.60	51.45	85.74	2.41	4.01	38.46	64.10	1.88	3.13	25.68	42.80	1.56	2.60	32.74	54.56	1.78	2.96
South	U42-L43	801	43.65	72.75	1.52	2.54	88.36	147.27	1.46	2.44	93.86	156.43	3.34	5.57	63.50	105.83	2.25	3.75	55.34	92.23	1.97	3.28	47.80	79.67	1.61	2.69	33.27	55.46	1.36	2.27	40.81	68.02	1.58	2.63
South	U43-L44	802	34.11	56.84	1.37	2.28	62.59	104.31	1.39	2.32	72.50	120.83	2.93	4.89	49.21	82.01	1.99	3.31	42.91	71.52	1.73	2.89	38.43	64.05	1.51	2.52	27.44	45.74	1.30	2.17	33.21	55.36	1.49	2.48
South	U44-L45	803	3.77	6.28	1.66	2.77	7.04	11.74	2.02	3.37	7.65	12.75	3.43	5.72	5.23	8.72	2.35	3.92	4.71	7.84	2.09	3.48	5.40	8.99	2.06	3.43	5.37	8.95	1.70	2.84	7.82	13.04	2.02	3.36
South	U46-L45	804	4.56	7.60	1.50	2.50	8.57	14.28	1.97	3.29	8.60	14.33	3.23	5.38	6.02	10.04	2.17	3.62	5.63	9.39	1.92	3.19	7.01	11.68	1.88	3.13	5.87	9.78	1.51	2.51	7.35	12.26	1.95	3.25
South	U47-L46	805	34.04	56.73	1.34	2.23	60.21	100.35	1.39	2.32	74.80	124.66	2.95	4.92	50.01	83.35	1.97	3.29	43.87	73.11	1.73	2.88	38.61	64.35	1.52	2.54	28.73	47.89	1.30	2.17	39.66	66.10	1.54	2.56
South	U48-L47	806	47.42	79.03	1.56	2.60	101.75	169.58	1.49	2.49	106.41	177.34	3.49	5.81	70.66	117.77	2.32	3.87	61.51	102.52	2.02	3.37	52.17	86.95	1.69	2.82	37.79	62.99	1.42	2.37	51.12	85.20	1.67	2.79
South	U49-L48	807	39.91	66.51	1.11	1.85	70.16	116.93	0.98	1.64	93.83	156.39	2.52	4.21	61.46	102.44	1.66	2.77	52.53	87.54	1.44	2.39	39.93	66.55	1.16	1.93	27.16	45.27	0.96	1.60	34.88	58.14	1.10	1.84
South	U50-L49	808	34.39	57.32	1.85	3.09	57.27	95.45	1.57	2.62	69.96	116.60	3.98	6.64	47.96	79.93	2.66	4.44	41.95	69.92	2.34	3.89	38.26	63.76	1.95	3.26	21.92	36.54	1.72	2.87	27.76	46.27	1.82	3.03
South	U50-L51	809	7.08	11.81	1.95	3.24	8.04	13.41	1.55	2.58	16.18	26.97	4.47	7.46	10.62	17.69	2.94	4.90	9.17	15.28	2.54	4.24	7.19	11.98	1.95	3.24	6.15	10.25	1.56	2.60	6.90	11.50	1.72	2.87
South	U51-L52	810	10.82	18.03	2.00	3.33	12.04	20.07	1.58	2.64	24.75	41.25	4.59	7.65	16.23	27.05	3.02	5.04	14.01	23.35	2.61	4.35	10.91	18.18	2.01	3.34	9.38	15.63	1.70	2.83	10.48	17.47	1.82	3.03
South	U52-L53	811	12.26	20.44	1.51	2.52	14.52	24.19	1.21	2.01	28.18	46.97	3.47	5.78	18.47	30.78	2.28	3.80	15.90	26.51	1.97	3.28	12.19	20.32	1.52	2.54	10.87	18.11	1.29	2.14	11.97	19.95	1.41	2.35
South	U53-L54	812	10.39	17.31	1.84	3.06	12.33	20.55	1.52	2.53	23.89	39.82	4.20	7.00	15.65	26.09	2.77	4.62	13.48	22.47	2.39	3.99	10.33	17.22	1.87	3.11	9.05	15.09	1.56	2.61	10.11	16.85	1.70	2.83
South	U54-L55	813	7.56	12.60	1.77	2.96	8.98	14.97	1.50	2.50	17.41	29.01	4.03	6.72	11.40	19.01	2.66	4.44	9.82	16.36	2.31	3.84	7.52	12.54	1.83	3.05	6.52	10.86	1.56	2.61	7.35	12.24	1.68	2.80
South	U55-L56	814	4.53	7.55	3.95	6.58	7.67	12.79	3.89	6.48	10.26	17.10	8.93	14.88	6.78	11.31	5.90	9.84	5.88	9.80	5.13	8.54	4.76	7.93	4.17	6.95	4.32	7.20	3.67	6.12	5.48	9.14	4.25	7.09
South	U57-L56	815	6.31	10.51	1.92	3.20	8.38	13.96	1.67	2.78	14.13	23.55	4.36	7.26	9.42	15.70	2.89	4.81	8.17	13.62	2.50	4.17	6.87	11.45	2.00	3.34	5.94	9.90	1.65	2.74	6.86	11.43	2.08	3.47
South	U58-L57	816	12.05	20.09	1.77	2.96	13.71	22.85	1.50	2.50	27.59	45.98	4.05	6.75	18.09	30.15	2.67	4.46	15.61	26.02	2.31	3.85	12.23	20.38	1.81	3.02	10.13	16.88	1.53	2.55	11.40	19.00	1.70	2.84
South	U59-L58	817	14.10	23.50	1.51	2.52	15.61	26.02	1.22	2.04	32.35	53.91	3.44	5.74	21.20	35.34	2.27	3.79	18.29	30.49	1.97	3.28	14.23	23.71	1.53	2.56	11.89	19.82	1.27	2.12	13.36	22.27	1.45	2.41
South	U60-L59	818	12.94	21.57	1.79	2.99	15.58	25.97	1.41	2.35	29.78	49.63	4.10	6.84	19.51	32.52	2.71	4.51	16.80	28.01	2.34	3.90	12.88	21.46	1.81	3.01	11.15	18.58	1.52	2.54	12.44	20.73	1.64	2.74
South	U61-L60	819	7.91	13.18	1.91	3.19	9.41	15.68	1.52	2.53	18.19	30.32	4.36	7.27	11.92	19.87	2.88	4.80	10.27	17.12	2.49	4.15	7.87	13.12	1.94	3.24	6.92	11.53	1.59	2.64	7.69	12.81	1.74	2.91
South	U62-L61	820	7.22	12.03	2.63	4.38	8.39	13.98	2.21	3.68	16.60	27.67	5.95	9.92	10.88	18.13	3.93	6.56	9.37	15.62	3.40	5.67	7.18	11.97	2.70	4.51	6.32	10.54	2.23	3.71	7.02	11.69	2.46	4.10
South	U62-L63	821	86.74	144.57	3.31	5.51	173.71	289.51	3.24	5.39	189.76	316.27	7.17	11.96	125.38	208.96	4.73	7.89	109.09	181.82	4.14	6.90	108.49	180.82	4.03	6.72	91.74	152.90	3.05	5.09	154.13	256.88	4.33	7.21
South	U63-L64	822	37.55	62.59	1.80	2.99	71.94	119.89	1.55	2.58	84.20	140.34	3.95	6.59	55.24	92.07	2.61	4.35	48.07	80.12	2.28	3.79	39.54	65.91	1.90	3.16	26.48	44.13	1.53	2.55	32.86	54.77	1.75	2.91
South	U64-L65	823	41.24	68.74	1.59	2.66	82.97	138.29	1.43	2.38	96.08	160.13	3.66	6.10	63.21	105.35	2.42	4.04	54.10	90.17	2.08	3.46	40.12	66.86	1.65	2.74	25.64	42.73	1.35	2.25	32.49	54.16	1.55	2.59
South	U65-L66	824	39.03	65.05	1.48	2.46	74.67	124.45	1.45	2.41	88.36	147.27	3.35	5.59	58.84	98.06	2.22	3.69	50.21	83.68	1.91	3.19	42.56	70.94	1.59	2.66	27.12	45.20	1.32	2.20	34.00	56.66	1.54	2.56
South	U66-L67	825	25.35	42.25	1.26	2.10	46.41	77.35	1.34	2.24	54.21	90.35	2.82	4.70	36.59	60.98	1.86	3.10	32.19	53.65	1.61	2.69	29.01	48.35	1.42	2.37	24.29	40.48	1.21	2.01	28.25	47.09	1.41	2.34
South	U67-L68	826	3.33	5.56	2.24	3.73	6.48	10.80	3.13	5.21	6.80	11.33	4.88	8.13	4.62	7.71	3.24	5.39	4.13	6.88	2.82	4.71	4.81	8.01	2.83	4.71	4.37	7.29	2.16	3.60	7.00	11.67	2.76	4.60
South	U69-L68	827	3.53	5.88	1.64	2.74	7.04	11.74	2.21	3.68	7.24	12.07	3.54	5.90	4.90	8.17	2.38	3.96	4.33	7.22	2.07	3.44	5.56	9.27	1.99	3.32	3.60	6.01	1.65	2.75	5.16	8.59	2.10	3.50
South	U70-L69	828	26.91	44.85	1.26	2.09	44.63	74.39	1.37	2.28	59.09	98.49	2.78	4.63	39.00	65.01	1.85	3.08	33.69	56.14	1.60	2.66	28.86	48.09	1.39	2.32	21.20	35.33	1.20	2.00	28.27	47.12	1.42	2.36
South	U71-L70	829	33.02	55.04	1.44	2.41	64.66	107.77	1.44	2.40	73.56	122.60	3.25	5.42	48.81	81.36	2.16	3.59	41.92	69.87	1.86	3.10	35.11	58.52	1.54	2.56	24.59	40.99	1.29	2.15	32.07	53.46	1.53	2.55
South	U72-L71	830	34.88	58.13	1.10	1.84	69.81	116.34	1.01	1.69	79.32	132.20	2.51	4.19	52.54	87.57	1.66	2.77	45.27	75.45	1.44	2.40	35.86	59.77	1.14	1.90	24.59	40.98	0.94	1.57	31.05	51.74	1.07	1.79
South	U73-L72	831	29.11	48.51	1.72	2.86	53.26	88.76	1.49	2.49	64.16	106.94	3.72	6.20	42.02	70.03	2.47	4.11	36.41	60.69	2.15	3.58	29.96	49.93	1.78	2.96	21.78	36.29	1.46	2.44	25.37	42.29	1.62	2.70
South	U74-L73	832	63.47	105.79	3.41	5.68	131.23	218.72	3.32	5.53	137.06	228.44	7.28	12.14	89.48	149.14	4.83	8.05	77.91	129.85	4.22	7.03	79.76	132.94	4.13	6.89	44.42	74.04	3.04	5.07	61.80	103.00	3.84	6.39
South	U74-L75	833	7.02	11.71	2.65	4.41	8.52	14.20	1.74	2.91	16.18	26.97	6.19	10.32	10.59	17.65	4.08	6.80	9.10	15.17	3.48	5.80	6.93	11.54	2.56	4.27	6.01	10.01	1.84	3.07	6.58	10.97	2.01	3.36
South	U75-L76	834	7.73	12.88	2.17	3.62	8.98	14.97	1.45	2.42	17.85	29.76	5.07	8.45	11.68	19.47	3.34	5.56	10.04	16.73	2.85	4.76	7.58	12.63	2.10	3.51	6.54	10.90	1.55	2.59	7.15	11.92	1.68	2.79
South	U76-L77	835	9.43	15.72	2.27	3.78	10.15	16.91	1.51	2.52	21.92	36.53	5.30	8.83	14.35	23.92	3.49	5.81	12.32	20.53	2.98	4.97	9.13	15.22	2.20	3.67	7.87	13.12	1.66	2.77	8.40	13.99	1.77	2.95
South	U77-L78	836	8.93	14.88	2.22	3.70	9.28	15.46	1.51	2.51	20.81	34.69	5.19	8.65	13.63	22.72	3.41	5.69	11.68	19.47	2.92	4.87	8.60	14.33	2.17	3.61	7.37	12.29	1.61	2.68	7.86	13.09	1.76	2.94
South	U78-L79	837	7.86	13.10	2.42	4.03	8.14	13.56	1.70	2.84	18.33	30.54	5.64	9.40	12.00	20.00	3.71	6.19	10.28	17.14	3.18	5.29	7.57	12.62	2.36	3.94	6.49	10.81	1.80	3.01	6.91	11.51	1.95	3.25
South	U79-L80	838	5.20	8.67	2.02	3.37	5.37	8.94	1.49	2.48	12.13	20.22	4.71	7.85	7.94	13.24	3.11	5.18	6.81	11.34	2.66	4.43	5.01	8.35	2.00	3.33	4.29	7.15	1.52	2.53	4.56	7.61	1.67	2.78
South	U80-L81	839	3.21	5.35	2.83	4.71	3.33	5.55	2.28	3.80	7.44	12.40	6.55	10.92	4.89	8.15	4.33	7.21	4.20	7.00	3.70	6.17	3.12	5.20	2.81	4.69	2.67	4.44	2.24	3.73	2.84	4.73	2.47	4.12
South	U81-L82	840	2.47	4.12	5.70	9.51	2.71	4.52	5.75	9.59	5.71	9.52	13.16	21.94	3.75	6.26	8.70	14.51	3.23	5.39	7.45	12.42	2.47	4.12	5.74	9.57	2.03	3.38	5.25	8.74	2.11	3.51	5.68	9.46
South	U83-L82	841	9.18	15.30	2.37	3.94	15.17	25.29	1.56	2.60	21.05	35.08	5.46	9.09	13.91	23.18	3.59	5.99	11.95	19.92	3.10	5.17	9.34	15.57	2.37	3.94	8.69	14.48	1.64	2.74	9.63	16.04	2.03	3.39
South	U84-L83	842	18.46	30.77	3.15	5.24	22.39	37.32	2.11	3.52	42.45	70.74	7.30	12.16	27.78	46.30	4.80	8.00	23.90	39.84	4.13	6.89	18.30	30.50	3.11	5.18	15.15	25.24	2.19	3.65	17.31	28.85	2.63	4.38
South	U85-L84	843	17.11	28.51	2.04	3.40	20.51	34.18	1.41	2.35	39.38	65.63	4.74	7.89	25.78	42.97	3.11	5.19	22.17	36.96	2.68	4.47	16.90	28.17	2.00	3.34	14.29	23.82	1.50	2.50	15.79	26.32	1.63	2.72
South	U86-L85	844	15.31	25.52	2.38	3.97	17.75	29.59	1.64	2.74	35.45	59.08	5.54	9.23	23.22	38.70	3.64	6.07	19.95	33.26	3.13	5.22	14.96	24.93	2.32	3.87	12.59	20.99	1.74	2.90	13.79	22.99	1.89	3.15
South	U87-L86	845	9.60	16.00	2.44	4.07	10.66	17.77	1.64	2.73	22.38	37.30	5.68	9.46	14.64	24.40	3.73	6.22	12.55	20.92	3.21	5.36	9.24	15.40	2.38	3.96	7.89	13.15	1.75	2.92	8.42	14.04	1.90	3.17

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
South	U88-L87	846	5.07	8.44	2.18	3.64	5.46	9.09	1.47	2.45	11.81	19.68	5.07	8.46	7.72	12.87	3.34	5.56	6.62	11.04	2.87	4.79	4.87	8.12	2.13	3.55	4.16	6.94	1.59	2.65	4.44	7.40	1.70	2.84
South	U89-L88	847	4.00	6.67	2.70	4.50	4.27	7.11	1.89	3.16	9.34	15.56	6.25	10.41	6.11	10.18	4.12	6.86	5.24	8.73	3.54	5.90	3.85	6.42	2.64	4.41	3.29	5.48	1.96	3.27	3.51	5.85	2.15	3.58
South	U90-L89	848	2.94	4.90	4.78	7.96	3.14	5.23	3.52	5.87	6.85	11.42	11.03	18.38	4.48	7.47	7.27	12.11	3.84	6.41	6.25	10.41	2.83	4.71	4.71	7.85	2.42	4.03	3.49	5.81	2.58	4.30	3.83	6.39
South	U90-L91	849	2.09	3.49	8.87	14.78	1.93	3.22	19.12	31.87	4.86	8.10	18.94	31.56	3.18	5.30	12.49	20.82	2.73	4.56	10.97	18.28	2.05	3.42	11.32	18.87	1.71	2.85	12.92	21.54	1.86	3.11	16.54	27.56
South	U91-L92	850	6.71	11.18	4.41	7.35	7.27	12.12	9.91	16.51	15.51	25.85	9.55	15.91	10.21	17.01	6.30	10.50	8.77	14.62	5.50	9.17	6.77	11.28	5.35	8.92	5.57	9.28	5.98	9.97	6.15	10.25	7.48	12.46
South	U92-L93	851	40.96	68.27	2.66	4.43	96.97	161.62	3.02	5.04	90.57	150.96	5.80	9.67	59.69	99.48	3.83	6.38	51.79	86.31	3.34	5.56	49.08	81.81	3.19	5.31	35.98	59.97	2.65	4.42	41.39	68.98	3.15	5.25
South	U93-L94	852	46.90	78.17	1.82	3.04	87.72	146.19	1.55	2.59	103.25	172.09	4.00	6.66	67.68	112.79	2.64	4.39	59.11	98.52	2.30	3.83	55.95	93.25	2.15	3.59	34.00	56.67	1.62	2.69	36.66	61.10	1.85	3.08
South	U94-L95	853	58.30	97.17	1.96	3.27	96.17	160.28	1.46	2.43	132.58	220.97	4.48	7.46	88.03	146.72	2.96	4.93	75.35	125.58	2.55	4.25	57.90	96.49	1.96	3.27	31.59	52.65	1.48	2.46	39.55	65.91	1.71	2.86
South	U95-L96	854	58.01	96.68	2.05	3.41	98.61	164.35	1.60	2.67	133.47	222.46	4.75	7.92	88.28	147.14	3.14	5.24	75.49	125.82	2.68	4.47	56.85	94.75	2.04	3.40	32.05	53.42	1.59	2.66	40.02	66.70	1.77	2.95
South	U96-L97	855	49.11	81.85	1.83	3.05	86.61	144.36	1.54	2.57	112.39	187.32	4.22	7.03	74.70	124.50	2.79	4.65	63.69	106.15	2.39	3.98	49.13	81.89	1.86	3.09	30.79	51.32	1.50	2.50	36.02	60.03	1.66	2.77
South	U97-L98	856	30.74	51.24	1.51	2.52	49.74	82.90	1.40	2.33	59.56	99.27	3.46	5.77	41.95	69.92	2.29	3.82	37.22	62.04	1.97	3.28	33.57	55.95	1.57	2.61	26.08	43.47	1.29	2.16	32.40	54.00	1.49	2.49
South	U98-L99	857	10.27	17.11	1.43	2.39	19.60	32.67	1.55	2.59	20.82	34.69	3.26	5.43	14.17	23.62	2.16	3.61	12.72	21.20	1.86	3.10	14.56	24.27	1.54	2.56	12.34	20.57	1.28	2.14	18.22	30.36	1.59	2.64
South	U99-L100	858	3.86	6.43	2.12	3.53	8.56	14.27	3.10	5.16	8.32	13.87	4.73	7.89	5.58	9.29	3.16	5.27	4.91	8.18	2.72	4.54	4.87	8.11	2.39	3.98	5.28	8.79	2.05	3.41	7.02	11.70	2.92	4.86
South	U101-L100	859	3.00	5.00	2.63	4.38	6.89	11.48	4.57	7.61	6.55	10.92	5.83	9.71	4.41	7.36	3.88	6.47	3.81	6.35	3.39	5.65	3.71	6.19	2.97	4.95	4.09	6.81	2.72	4.54	5.04	8.41	3.87	6.45
South	U102-L101	860	7.84	13.06	1.38	2.30	15.95	26.58	1.59	2.65	16.28	27.13	3.11	5.19	11.19	18.64	2.06	3.44	9.70	16.17	1.79	2.98	11.34	18.90	1.48	2.46	11.87	19.78	1.27	2.11	17.50	29.17	1.60	2.67
South	U103-L102	861	26.64	44.40	1.58	2.64	42.84	71.40	1.52	2.53	51.84	86.40	3.61	6.02	35.51	59.19	2.39	3.98	32.82	54.70	2.07	3.44	28.71	47.85	1.64	2.74	28.46	47.44	1.37	2.28	37.70	62.84	1.60	2.66
South	U104-L103	862	55.17	91.95	1.81	3.02	104.77	174.62	1.55	2.58	126.12	210.21	4.16	6.93	83.68	139.46	2.74	4.57	72.21	120.36	2.37	3.95	55.90	93.16	1.83	3.06	38.27	63.79	1.50	2.50	44.13	73.55	1.65	2.76
South	U105-L104	863	75.59	125.98	1.96	3.26	129.27	215.45	1.55	2.58	171.77	286.29	4.53	7.55	114.44	190.73	2.98	4.96	98.77	164.62	2.57	4.28	74.92	124.87	1.95	3.25	39.77	66.28	1.53	2.55	52.11	86.85	1.70	2.84
South	U106-L105	864	74.57	124.28	2.02	3.37	123.16	205.27	1.50	2.51	164.41	274.02	4.53	7.55	108.06	180.10	3.02	5.03	93.44	155.74	2.60	4.34	72.60	121.00	2.02	3.37	36.82	61.37	1.51	2.52	47.92	79.86	1.77	2.96
South	U107-L106	865	61.93	103.22	1.90	3.17	129.34	215.57	1.59	2.65	134.62	224.36	4.12	6.87	87.69	146.14	2.74	4.57	76.28	127.13	2.38	3.96	72.88	121.47	2.19	3.65	38.35	63.91	1.71	2.85	47.77	79.62	1.93	3.22
South	U108-L107	866	34.60	57.66	1.75	2.91	75.35	125.58	1.99	3.32	75.25	125.41	3.75	6.25	48.95	81.58	2.49	4.14	42.60	70.99	2.17	3.61	41.12	68.54	2.07	3.44	34.09	56.81	1.74	2.90	38.17	63.61	2.05	3.42
South	U109-L108	867	3.55	5.92	5.63	9.38	3.64	6.07	11.96	19.94	8.19	13.65	11.86	19.77	5.40	9.00	7.85	13.09	4.64	7.73	6.89	11.48	3.52	5.87	7.14	11.89	2.77	4.62	8.01	13.36	3.07	5.12	10.25	17.08
South	U110-L109	868	2.23	3.72	8.58	14.30	2.00	3.33	17.83	29.72	5.15	8.58	18.12	30.20	3.38	5.63	12.00	19.99	2.90	4.84	10.51	17.52	2.18	3.63	10.82	18.04	1.74	2.90	11.88	19.79	1.91	3.19	15.11	25.19
South	U110-L111	869	3.64	6.07	3.47	5.78	3.88	6.46	2.41	4.01	8.48	14.13	8.01	13.35	5.55	9.25	5.27	8.78	4.76	7.93	4.54	7.56	3.50	5.83	3.40	5.67	2.99	4.98	2.46	4.10	3.19	5.31	2.66	4.44
South	U111-L112	870	4.64	7.73	2.10	3.50	4.93	8.22	1.40	2.34	10.80	18.00	4.87	8.11	7.07	11.78	3.20	5.33	6.06	10.10	2.75	4.58	4.46	7.43	2.05	3.41	3.81	6.35	1.52	2.53	4.06	6.77	1.62	2.70
South	U112-L113	871	5.87	9.78	1.38	2.30	6.30	10.50	0.92	1.53	13.67	22.78	3.21	5.36	8.95	14.91	2.11	3.51	7.67	12.78	1.81	3.02	5.64	9.40	1.34	2.24	4.82	8.03	1.01	1.68	5.14	8.56	1.06	1.76
South	U113-L114	872	12.24	20.41	1.56	2.60	13.55	22.59	1.06	1.76	28.54	47.56	3.63	6.05	18.67	31.12	2.38	3.96	16.01	26.68	2.05	3.41	11.76	19.60	1.52	2.54	10.04	16.73	1.12	1.86	10.70	17.83	1.21	2.01
South	U114-L115	873	41.81	69.69	1.97	3.29	48.84	81.41	1.34	2.24	98.23	163.71	4.59	7.65	64.26	107.11	3.01	5.01	54.96	91.61	2.59	4.31	39.77	66.28	1.94	3.23	27.62	46.03	1.47	2.45	30.28	50.47	1.62	2.70
South	U115-L116	874	28.36	47.26	1.92	3.20	57.98	96.63	1.23	2.05	65.16	108.60	4.47	7.46	42.96	71.60	2.93	4.89	37.10	61.83	2.53	4.21	28.95	48.26	1.89	3.16	26.35	43.92	1.36	2.26	30.47	50.78	1.47	2.45
South	U116-L117	875	17.06	28.44	3.33	5.55	28.38	47.30	1.88	3.13	39.14	65.24	7.77	12.94	25.86	43.10	5.10	8.50	22.35	37.25	4.38	7.30	17.46	29.11	3.30	5.49	17.72	29.54	2.19	3.65	20.51	34.18	2.69	4.49
South	U117-L118	876	11.42	19.04	3.18	5.29	18.27	30.45	1.93	3.21	26.22	43.70	7.37	12.29	17.31	28.85	4.84	8.07	14.97	24.95	4.16	6.94	11.63	19.38	3.16	5.27	12.87	21.45	2.27	3.79	15.33	25.54	2.86	4.77
South	U119-L118	877	2.52	4.19	9.95	16.59	1.92	3.20	16.50	27.50	5.83	9.72	22.84	38.06	3.83	6.38	15.10	25.17	3.29	5.49	13.01	21.68	2.52	4.21	9.99	16.66	2.14	3.57	12.09	20.16	2.22	3.69	12.17	20.29
South	U120-L119	878	3.44	5.73	5.12	8.54	3.43	5.72	4.71	7.86	7.93	13.22	11.79	19.65	5.19	8.65	7.78	12.97	4.49	7.48	6.70	11.16	3.43	5.71	5.10	8.49	3.00	4.99	4.61	7.68	3.25	5.41	5.02	8.36
South	U121-L120	879	3.80	6.33	2.10	3.50	3.52	5.87	1.51	2.51	8.85	14.76	4.85	8.08	5.79	9.65	3.19	5.32	4.96	8.27	2.75	4.58	3.65	6.08	2.07	3.45	3.10	5.17	1.85	3.09	3.31	5.51	1.81	3.02
South	U122-L121	880	7.07	11.78	2.06	3.43	6.57	10.95	1.34	2.23	16.48	27.46	4.77	7.95	10.78	17.96	3.13	5.22	9.24	15.40	2.70	4.50	6.80	11.33	2.02	3.36	5.77	9.62	1.55	2.58	6.16	10.26	1.69	2.82
South	U123-L122	881	10.17	16.94	2.18	3.63	9.47	15.78	1.38	2.31	23.70	39.51	5.05	8.41	15.50	25.83	3.32	5.53	13.29	22.15	2.86	4.76	9.78	16.30	2.14	3.57	8.31	13.85	1.61	2.69	8.86	14.77	1.76	2.94
South	U124-L123	882	13.44	22.40	2.57	4.28	12.55	20.91	1.62	2.70	31.32	52.19	5.95	9.91	20.49	34.16	3.91	6.52	17.58	29.29	3.37	5.62	12.93	21.55	2.53	4.21	11.00	18.33	1.96	3.26	11.73	19.55	2.04	3.41
South	U125-L124	883	14.80	24.67	2.41	4.02	13.93	23.22	1.55	2.58	34.46	57.44	5.56	9.27	22.56	37.60	3.66	6.10	19.35	32.24	3.16	5.26	14.24	23.73	2.38	3.97	12.16	20.27	1.77	2.95	12.97	21.62	1.91	3.19
South	U126-L125	884	16.51	27.52	2.58	4.30	15.65	26.08	1.66	2.76	38.46	64.09	5.94	9.89	25.18	41.96	3.91	6.51	21.59	35.98	3.37	5.62	15.88	26.47	2.56	4.26	13.56	22.61	1.84	3.06	14.46	24.11	2.03	3.39
North	U0-L1	885	44.12	73.53	1.62	2.71	52.31	87.19	1.50	2.51	91.19	151.99	3.61	6.02	62.69	104.49	2.42	4.03	55.13	91.89	2.11	3.52	52.13	86.88	1.68	2.80	47.12	78.54	1.43	2.38	59.15	98.59	1.63	2.72
North	U1-L2	886	49.52	82.53	1.58	2.64	64.10	106.84	1.55	2.59	101.98	169.97	3.48	5.79	70.04	116.73	2.34	3.89	61.87	103.11	2.04	3.41	59.30	98.83	1.68	2.81	50.71	84.52	1.46	2.43	62.46	104.11	1.67	2.78
North	U2-L3	887	26.37	43.95	1.34	2.24	49.16	81.94	1.45	2.42	54.50	90.84	2.88	4.80	37.19	61.98	1.95	3.25	33.06	55.10	1.71	2.85	35.22	58.70	1.50	2.50	34.98	58.31	1.33	2.22	39.40	65.67	1.50	2.50
North	U3-L4	888	6.07	10.11	1.89	3.15	13.46	22.44	2.56	4.27	13.00	21.66	3.89	6.49	8.76	14.60	2.67	4.45	7.74	12.90	2.36	3.93	7.72	12.86	2.31	3.85	9.26	15.43	2.01	3.35	11.51	19.18	2.32	3.87
North	U4-L5	889	1.72	2.87	7.56	12.61	2.36	3.93	15.32	25.53	3.80	6.33	14.43	24.06	2.54	4.23	10.14	16.90	2.22	3.71	9.38	15.64	1.97	3.28	11.01	18.35	1.76	2.94	12.16	20.27	2.08	3.47	17.80	29.67
North	U6-L5	890	24.53	40.89	1.48	2.47	34.60	57.66	1.54	2.56	42.88	71.46	3.32	5.53	31.36	52.27	2.21	3.68	30.60	51.00	1.92	3.21	30.35	50.59	1.60	2.67	30.41	50.68	1.37	2.28	38.64	64.40	1.61	2.69
North	U7-L6	891	57.81	96.35	1.64	2.74	90.26	150.43	1.52	2.54	125.10	208.50	3.73	6.21	84.29	140.49	2.47	4.12	74.46	124.11	2.14	3.57	68.32	113.87	1.72	2.87	45.58	75.96	1.44	2.40	57.35	95.59	1.66	2.77
North	U8-L7	892	63.44	105.74	1.93	3.22	96.46	160.76	1.65	2.74	143.31	238.85	4.42	7.37	95.11	158.52	2.93	4.88	82.64	137.73	2.53	4.22	67.63	112.71	1.98	3.29	45.10	75.17	1.64	2.73	49.75	82.92	1.78	2.97
North	U9-L8	893	56.77	94.61	1.96	3.27	109.54	182.57	1.62	2.70	123.14	205.23	4.29	7.16	82.92	138.20	2.88	4.81	73.28	122.13	2.54	4.23	60.62	101.03	2.04	3.40	36.54	60.90	1.59	2.64	44.16	73.59	1.79	2.98
North	U10-L9	894	48.74	81.23	1.89	3.16	94.24	157.06	1.67	2.79	106.27	177.11	4.09	6.82	71.16	118.59	2.75	4.59	62.45	104.08	2.43	4.04	59.35	98.91	2.27	3.78	31.89	53.15	1.60	2.66	41.40	69.00	1.99	3.31
North	U10-L11	895	5.63	9.38	2.00	3.34	10.24	17.07	1.65	2.76	12.89	21.49	4.53	7.55	8.53	14.21	3.02	5.03	7.35	12.24	2.63	4.38	5.57	9.28	2.00	3.34	4.87	8.12	1.66	2.77	6.30	10.50	1.82	3.03
North	U11-L12	896	6.95	11.59	1.58	2.63	8.96	14.93	1.34	2.24	15.63	26.05	3.54	5.90	10.38	17.30	2.36	3.94	8.94	14.91	2.06	3.43	7.03	11.71	1.59	2.65	6.23	10.38	1.34	2.23	7.09	11.81	1.46	2.44
North	U12-L13	897	6.30	10.50	1.49	2.49	8.24	13.73	1.31	2.18	14.16	23.60	3.34	5.57	9.40	15.67	2.23	3.72	8.10	13.51	1.95	3.24	6.36	10.61	1.52	2.54	5.75	9.58	1.33	2.22	6.42	10.69	1.41	2.36
North	U13-L14	898	4.63	7.71	1.38	2.30	6.13	10.21	1.16	1.94	10.40	17.33	3.06	5.10	6.90	11.51	2.05	3.42	5.95	9.92	1.80	2.99	4.67	7.79	1.44	2.39	4.20	7.00	1.16	1.93	4.71	7.85	1.31	2.19
North	U14-L15	899	3.07	5.11	1.93	3.21	5.55	9.24	1.44	2.39	6.79	11.32	4.21	7.02	4.53	7.55	2.83	4.72	3.95	6.59	2.50	4.17	3.39	5.64	2.07	3.46	3.12	5.20	1.57	2.62	3.56	5.93	1.80	3.00
North	U16-L15	900	2.62	4.36	2.15	3.58	5.85	9.75	1.88	3.14	5.97	9.95	4.82	8.04	3.95	6.59	3.21	5.34	3.41	5.69	2.79	4.65	2.62	4.36	2.32	3.87	2.25	3.75	1.91	3.19	2.73	4.55	2.36	3.93
North	U17-L16	901	3.40	5.67	1.53	2.55	7.68	12.80	1.35	2.26	7.80	13.01	3.46	5.77	5.16	8.60	2.30	3.83	4.45	7.42	2.00	3.33	3.37	5.62	1.60	2.67	2.94	4.90	1.35	2.25	4.56	7.61	1.53	2.55
North	U18-L17	902	4.80	8.00	1.47	2.45	9.60	16.00	1.27	2.12	10.97	18.28	3.35	5.59	7.26	12.09	2.22	3.70	6.27	10.44	1.92	3.21	4.78	7.96	1.51	2.52	4.20	7.00	1.30	2.16	5.77	9.62	1.38	2.31
North	U19-L18	903	5.58	9.31	1.75	2.91	7.95	13.25	1.55	2.59	12.62	21.03	3.98	6.64	8.37	13.95	2.64	4.40	7.22	12.03	2.29	3.81	5.61	9.35	1.80	2.99	4.97	8.28	1.48	2.47	5.77	9.62	1.63	2.72
North	U20-L19	904	5.89	9.82	2.83	4.71	8.08	13.47	2.62	4.37	13.23	22.05	6.44	10.74	8.79	14.65	4.27	7.11	7.57	12.62	3.70	6.16	5.95	9.92	2.91	4.84	5.40	9.00	2.41	4.02	6.00	10.00	2.66	4.43
North	U20-L21	905	47.73	79.55	2.68	4.47	76.42	127.36	2.54	4.23	97.47	162.45	5.48	9.14	67.42	112.37	3.78	6.29	58.26	97.10	3.28	5.46	58.82	98.03	3.17	5.29	37.66	62.77	2.41	4.02	49.87	83.12	2.96	4.94
North	U21-L22	906	45.30	75.50	1.68	2.79	66.56	110.94	1.48	2.46	90.72	151.20	3.43	5.71	62.89	104.82	2.37	3.95	54.73	91.21	2.06	3.43	47.14	78.57	1.75	2.91	28.90	48.16	1.43	2.39	36.03	60.04	1.65	2.74
North	U22-L23	907	48.50	80.83	1.55	2.59	67.49	112.48	1.49	2.48	106.77	177.95	3.42	5.71	71.52	119.20	2.30	3.83	62.77	104.61	2.02	3.36	51.81	86.34	1.64	2.74	32.86	54.77	1.39	2.32	44.02	73.37	1.62	2.69
North	U23-L24	908	32.73	54.55	1.39	2.32	45.75	76.24	1.45	2.41	70.59	117.64	2.99	4.98	47.62	79.36	2.02	3.37	42.12	70.19	1.77	2.95	38.07	63.45	1.55	2.58	33.21	55.35	1.34	2.24	40.16	66.94	1.55	2.59
North	U24-L25	909	8.19	13.65	1.73	2.89	12.79	21.32	2.08	3.47	15.16	25.27	3.59	5.98	10.74	17.89	2.46	4.10	10.10	16.83	2.17	3.61	10.44	17.41	2.11	3.52	12.24	20.40	1.69	2.81	15.56	25.94	2.14	3.57
North	U26-L25	910	3.87	6.44	3.03	5.05	7.53	12.55	5.07	8.45	7.34	12.23	6.21	10.35	5.17	8.61	4.24	7.06	4.75	7.92	3.80	6.34	5.66	9.44	4.39	7.32	4.28	7.13	3.12	5.20	6.80	11.33	4.75	7.92

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																											
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	U27-L26	911	20.52	34.19	1.26	2.10	30.63	51.05	1.50	2.49	40.65	67.75	2.71	4.52	28.64	47.74	1.82	3.04	26.13	43.55	1.61	2.69	23.20	38.67	1.53	2.55	19.62	32.71	1.26	2.10	24.08	40.14	1.55	2.59
North	U28-L27	912	26.10	43.49	1.21	2.02	44.51	74.18	1.31	2.19	57.87	96.46	2.69	4.48	38.63	64.38	1.79	2.99	33.68	56.14	1.57	2.62	28.90	48.17	1.38	2.30	21.74	36.24	1.17	1.96	29.54	49.23	1.38	2.31
North	U29-L28	913	27.49	45.82	0.80	1.33	50.60	84.34	0.80	1.33	62.29	103.81	1.80	3.00	41.28	68.80	1.20	1.99	35.76	59.60	1.04	1.73	28.95	48.25	0.86	1.43	20.43	34.05	0.72	1.20	27.48	45.79	0.85	1.41
North	U30-L29	914	27.96	46.60	1.68	2.81	43.22	72.03	1.58	2.63	59.79	99.64	3.59	5.98	40.45	67.41	2.43	4.05	35.86	59.77	2.16	3.61	29.75	49.59	1.83	3.04	20.55	34.24	1.49	2.48	25.05	41.75	1.74	2.90
North	U30-L31	915	7.07	11.79	1.64	2.73	10.15	16.91	1.35	2.24	15.90	26.49	3.71	6.18	10.57	17.62	2.47	4.12	9.19	15.32	2.15	3.58	7.36	12.27	1.64	2.73	6.47	10.78	1.36	2.26	7.36	12.26	1.48	2.47
North	U31-L32	916	10.86	18.11	1.75	2.91	15.47	25.79	1.47	2.45	24.34	40.57	3.93	6.55	16.21	27.02	2.62	4.37	14.08	23.47	2.28	3.80	11.26	18.77	1.76	2.93	9.86	16.44	1.48	2.46	11.26	18.76	1.61	2.69
North	U32-L33	917	11.79	19.64	1.46	2.43	14.93	24.88	1.26	2.09	26.40	44.00	3.27	5.45	17.63	29.38	2.18	3.64	15.17	25.28	1.90	3.16	11.80	19.66	1.49	2.48	10.26	17.10	1.29	2.14	11.50	19.16	1.38	2.30
North	U33-L34	918	9.43	15.71	1.61	2.69	12.04	20.07	1.45	2.42	21.17	35.28	3.58	5.96	14.13	23.55	2.40	4.00	12.16	20.27	2.09	3.49	9.44	15.74	1.67	2.79	8.13	13.55	1.39	2.32	9.23	15.38	1.57	2.62
North	U34-L35	919	3.40	5.67	2.16	3.60	7.29	12.16	2.19	3.65	7.52	12.53	4.71	7.85	5.03	8.38	3.17	5.29	4.38	7.30	2.80	4.67	3.78	6.30	2.32	3.86	3.73	6.22	1.93	3.22	4.26	7.10	2.37	3.95
North	U36-L35	920	5.26	8.77	1.47	2.44	7.36	12.27	1.34	2.24	11.78	19.64	3.29	5.48	7.84	13.07	2.19	3.65	6.84	11.39	1.91	3.18	5.51	9.19	1.59	2.65	4.74	7.90	1.35	2.25	5.40	9.00	1.63	2.72
North	U37-L36	921	8.98	14.97	1.54	2.57	12.47	20.78	1.35	2.25	20.27	33.78	3.49	5.81	13.46	22.43	2.31	3.86	11.70	19.49	2.01	3.35	9.34	15.57	1.62	2.69	7.93	13.22	1.36	2.27	9.06	15.10	1.54	2.57
North	U38-L37	922	10.51	17.52	1.36	2.26	13.95	23.25	1.17	1.95	23.68	39.46	3.10	5.16	15.74	26.24	2.05	3.42	13.67	22.78	1.78	2.96	10.85	18.08	1.40	2.33	9.30	15.50	1.19	1.98	10.56	17.60	1.28	2.13
North	U39-L38	923	9.91	16.52	1.67	2.78	12.46	20.77	1.48	2.47	22.20	37.00	3.81	6.35	14.83	24.72	2.52	4.20	12.77	21.28	2.19	3.64	9.96	16.59	1.71	2.85	8.62	14.37	1.41	2.35	9.61	16.01	1.55	2.59
North	U40-L39	924	5.78	9.64	1.75	2.92	7.25	12.09	1.62	2.71	12.94	21.57	3.98	6.64	8.65	14.42	2.64	4.40	7.44	12.40	2.29	3.82	5.81	9.69	1.81	3.01	5.05	8.42	1.50	2.50	5.63	9.38	1.65	2.75
North	U40-L41	925	29.06	48.44	0.91	1.52	42.27	70.45	0.76	1.27	58.56	97.61	1.83	3.04	40.50	67.50	1.27	2.12	35.25	58.75	1.10	1.84	29.43	49.05	0.94	1.57	18.36	30.61	0.77	1.28	21.81	36.34	0.85	1.42
North	U41-L42	926	38.05	63.42	1.28	2.13	62.34	103.90	1.13	1.89	89.65	149.42	2.88	4.80	58.73	97.88	1.92	3.20	50.27	83.78	1.67	2.79	37.30	62.17	1.30	2.17	23.77	39.61	1.09	1.81	29.90	49.83	1.23	2.06
North	U42-L43	927	34.14	56.90	1.08	1.80	47.02	78.37	1.01	1.69	74.10	123.50	2.38	3.96	50.03	83.39	1.60	2.66	43.61	72.68	1.40	2.33	36.56	60.93	1.15	1.92	23.51	39.19	0.97	1.61	29.62	49.37	1.12	1.86
North	U43-L44	928	32.50	54.17	1.34	2.23	41.12	68.53	1.35	2.25	70.82	118.03	2.87	4.79	47.69	79.49	1.94	3.24	41.73	69.54	1.70	2.83	35.52	59.19	1.48	2.46	24.67	41.12	1.27	2.11	28.30	47.17	1.47	2.44
North	U44-L45	929	3.58	5.97	1.51	2.52	6.54	10.89	1.97	3.28	7.27	12.12	3.12	5.21	4.97	8.29	2.14	3.57	4.48	7.46	1.89	3.16	5.17	8.61	1.84	3.06	5.13	8.55	1.56	2.60	7.02	11.69	1.83	3.04
North	U46-L45	930	4.05	6.75	1.37	2.28	8.34	13.90	1.91	3.19	7.75	12.91	2.95	4.91	5.42	9.03	1.98	3.30	5.04	8.39	1.75	2.91	5.96	9.94	1.71	2.86	5.43	9.05	1.37	2.28	5.94	9.91	1.78	2.97
North	U47-L46	931	26.91	44.85	1.20	2.00	49.32	82.20	1.36	2.27	58.12	96.86	2.66	4.43	39.11	65.19	1.77	2.96	34.49	57.48	1.55	2.59	30.85	51.42	1.36	2.27	22.74	37.90	1.17	1.94	33.55	55.91	1.37	2.29
North	U48-L47	932	30.93	51.54	1.36	2.26	58.75	97.92	1.40	2.34	67.23	112.06	3.06	5.10	45.15	75.25	2.03	3.38	39.77	66.28	1.76	2.94	35.57	59.28	1.46	2.43	25.71	42.85	1.23	2.05	35.69	59.49	1.42	2.37
North	U49-L48	933	26.49	44.14	1.18	1.97	58.09	96.81	1.12	1.86	58.85	98.08	2.71	4.52	39.08	65.14	1.79	2.99	33.72	56.20	1.55	2.58	28.50	47.49	1.22	2.03	19.65	32.76	1.01	1.68	26.22	43.69	1.15	1.92
North	U50-L49	934	35.18	58.64	2.85	4.76	63.76	106.26	2.60	4.34	70.96	118.27	5.99	9.99	48.54	80.90	4.00	6.66	43.32	72.19	3.53	5.89	39.83	66.38	3.11	5.19	28.90	48.17	2.48	4.13	31.95	53.24	2.79	4.65
North	U50-L51	935	6.21	10.35	1.93	3.22	7.74	12.91	1.44	2.41	14.21	23.69	4.49	7.48	9.37	15.62	2.96	4.93	8.06	13.43	2.54	4.24	6.22	10.36	1.88	3.13	5.36	8.93	1.48	2.47	5.98	9.97	1.59	2.65
North	U51-L52	936	9.54	15.91	1.38	2.30	12.44	20.74	1.09	1.81	21.84	36.40	3.19	5.31	14.39	23.98	2.10	3.50	12.38	20.63	1.81	3.01	9.54	15.91	1.35	2.25	8.26	13.77	1.13	1.88	9.20	15.34	1.18	1.97
North	U52-L53	937	9.29	15.48	0.81	1.34	12.82	21.36	0.64	1.07	21.35	35.58	1.86	3.10	13.99	23.32	1.23	2.04	12.06	20.09	1.06	1.76	9.25	15.42	0.80	1.33	8.20	13.67	0.66	1.10	9.04	15.06	0.71	1.18
North	U53-L54	938	9.80	16.33	1.26	2.10	13.33	22.22	1.05	1.74	22.52	37.53	2.90	4.83	14.76	24.60	1.91	3.19	12.71	21.19	1.65	2.75	9.76	16.26	1.26	2.10	8.54	14.24	1.03	1.72	9.52	15.87	1.14	1.90
North	U54-L55	939	8.35	13.91	1.56	2.60	11.24	18.74	1.36	2.27	19.19	31.98	3.56	5.93	12.58	20.96	2.35	3.92	10.83	18.06	2.03	3.38	8.31	13.85	1.58	2.64	7.22	12.03	1.35	2.25	8.11	13.51	1.44	2.40
North	U55-L56	940	3.16	5.27	1.75	2.92	5.82	9.69	1.92	3.20	7.16	11.93	3.96	6.59	4.73	7.89	2.62	4.37	4.11	6.84	2.27	3.79	3.34	5.57	1.83	3.04	3.18	5.29	1.59	2.65	3.76	6.26	1.82	3.04
North	U57-L56	941	5.56	9.26	1.21	2.02	8.91	14.84	1.16	1.94	12.46	20.77	2.75	4.58	8.28	13.79	1.82	3.03	7.20	12.01	1.57	2.61	6.03	10.05	1.26	2.10	5.23	8.72	1.08	1.80	5.97	9.96	1.29	2.15
North	U58-L57	942	11.99	19.99	1.10	1.83	14.06	23.43	0.92	1.53	27.51	45.85	2.52	4.21	18.14	30.24	1.66	2.77	15.60	26.00	1.43	2.39	12.00	20.01	1.11	1.86	9.99	16.65	0.94	1.56	11.21	18.69	1.01	1.69
North	U59-L58	943	13.83	23.05	1.27	2.11	16.81	28.01	1.02	1.70	31.69	52.82	2.92	4.87	20.88	34.81	1.92	3.20	17.95	29.92	1.65	2.75	13.82	23.03	1.26	2.11	11.66	19.43	1.03	1.71	13.04	21.73	1.16	1.93
North	U60-L59	944	11.16	18.61	1.55	2.58	15.51	25.86	1.25	2.08	25.68	42.80	3.58	5.97	16.83	28.06	2.35	3.92	14.49	24.15	2.02	3.37	11.13	18.55	1.53	2.55	9.74	16.23	1.25	2.09	10.88	18.13	1.37	2.28
North	U61-L60	945	7.25	12.08	1.87	3.11	10.33	17.21	1.59	2.65	16.67	27.78	4.32	7.19	10.92	18.21	2.84	4.73	9.40	15.67	2.44	4.07	7.22	12.04	1.84	3.07	6.39	10.65	1.52	2.53	7.08	11.80	1.61	2.69
North	U62-L61	946	4.20	7.00	1.80	3.00	6.16	10.27	1.59	2.65	9.66	16.09	4.17	6.94	6.33	10.55	2.74	4.56	5.45	9.08	2.36	3.93	4.19	6.98	1.78	2.96	3.70	6.17	1.43	2.38	4.10	6.83	1.54	2.56
North	U62-L63	947	31.09	51.82	2.10	3.50	35.60	59.34	1.94	3.23	70.69	117.81	4.51	7.51	45.92	76.53	2.98	4.97	39.82	66.37	2.61	4.35	37.20	62.00	2.58	4.31	28.99	48.31	1.93	3.21	51.81	86.34	2.71	4.52
North	U63-L64	948	38.02	63.36	1.77	2.95	52.90	88.16	1.51	2.51	86.82	144.71	3.88	6.47	56.16	93.59	2.57	4.28	49.07	81.78	2.24	3.74	40.40	67.33	1.87	3.11	26.98	44.97	1.51	2.52	34.58	57.64	1.70	2.84
North	U64-L65	949	41.48	69.13	1.32	2.20	60.95	101.58	1.19	1.98	97.91	163.18	3.02	5.03	64.40	107.33	2.00	3.33	54.67	91.11	1.71	2.86	40.90	68.17	1.35	2.26	26.02	43.37	1.12	1.86	32.86	54.77	1.27	2.12
North	U65-L66	950	39.01	65.02	1.46	2.43	57.62	96.03	1.28	2.14	89.94	149.89	3.30	5.49	59.12	98.53	2.18	3.64	50.58	84.30	1.89	3.14	42.97	71.61	1.57	2.61	27.22	45.37	1.30	2.17	34.03	56.72	1.51	2.52
North	U66-L67	951	25.85	43.08	1.29	2.15	40.81	68.02	1.28	2.13	55.76	92.94	2.87	4.78	37.35	62.26	1.90	3.17	32.98	54.97	1.65	2.75	29.81	49.69	1.45	2.42	24.39	40.65	1.23	2.05	28.46	47.44	1.43	2.39
North	U67-L68	952	3.44	5.73	2.20	3.67	6.27	10.45	3.07	5.12	7.00	11.66	4.76	7.93	4.77	7.95	3.18	5.30	4.23	7.05	2.77	4.62	4.95	8.26	2.76	4.61	4.50	7.50	2.13	3.55	7.18	11.97	2.69	4.48
North	U69-L68	953	3.51	5.85	1.68	2.79	6.97	11.62	2.09	3.49	7.04	11.73	3.61	6.01	4.83	8.05	2.42	4.04	4.26	7.10	2.10	3.50	5.41	9.01	2.03	3.38	3.60	6.00	1.69	2.81	5.01	8.36	2.14	3.57
North	U70-L69	954	26.28	43.80	1.27	2.12	15.22	25.36	1.33	2.21	57.59	95.98	2.80	4.67	38.46	64.10	1.86	3.10	33.07	55.12	1.61	2.68	28.24	47.07	1.41	2.34	21.04	35.07	1.21	2.01	27.45	45.75	1.43	2.38
North	U71-L70	955	32.44	54.06	1.45	2.42	50.90	84.83	1.41	2.34	72.37	120.61	3.26	5.44	48.21	80.35	2.17	3.61	41.53	69.22	1.87	3.11	34.69	57.81	1.54	2.57	24.47	40.79	1.29	2.15	33.01	55.02	1.50	2.49
North	U72-L71	956	34.60	57.66	1.16	1.94	41.74	69.57	1.07	1.78	78.73	131.22	2.65	4.41	52.13	86.89	1.75	2.92	45.09	75.14	1.51	2.52	35.78	59.64	1.20	1.99	24.43	40.71	0.99	1.65	30.51	50.85	1.13	1.89
North	U73-L72	957	28.91	48.19	1.72	2.86	72.70	121.17	1.46	2.43	63.10	105.16	3.74	6.24	41.85	69.74	2.47	4.12	36.12	60.20	2.16	3.60	29.75	49.59	1.78	2.97	21.66	36.09	1.46	2.44	25.10	41.84	1.62	2.71
North	U74-L73	958	63.40	105.67	3.40	5.67	59.95	99.91	3.22	5.36	135.11	225.19	7.30	12.16	89.58	149.30	4.82	8.03	77.61	129.36	4.21	7.02	79.35	132.24	4.12	6.87	45.34	75.57	3.03	5.05	62.45	104.08	3.83	6.39
North	U74-L75	959	6.96	11.60	2.60	4.33	7.75	12.91	1.53	2.55	16.03	26.71	6.05	10.09	10.49	17.48	3.99	6.65	9.03	15.04	3.41	5.69	6.86	11.44	2.50	4.17	5.92	9.87	1.79	2.99	6.51	10.85	1.96	3.27
North	U75-L76	960	7.61	12.69	2.17	3.61	8.44	14.06	1.31	2.18	17.59	29.32	5.05	8.41	11.51	19.18	3.33	5.55	9.89	16.49	2.85	4.75	7.46	12.43	2.09	3.49	6.42	10.69	1.55	2.58	7.02	11.69	1.66	2.77
North	U76-L77	961	9.23	15.39	2.26	3.77	9.79	16.31	1.37	2.29	21.46	35.77	5.28	8.79	14.06	23.43	3.48	5.79	12.05	20.08	2.98	4.96	8.94	14.89	2.19	3.65	7.72	12.86	1.64	2.74	8.22	13.70	1.76	2.93
North	U77-L78	962	8.74	14.56	2.21	3.69	9.09	15.14	1.37	2.28	20.37	33.94	5.15	8.58	13.32	22.20	3.39	5.65	11.42	19.04	2.90	4.84	8.41	14.01	2.15	3.58	7.18	11.97	1.60	2.66	7.66	12.76	1.74	2.91
North	U78-L79	963	7.28	12.13	2.04	3.40	7.57	12.62	1.31	2.18	16.97	28.29	4.74	7.90	11.10	18.50	3.13	5.22	9.52	15.87	2.68	4.46	7.01	11.68	1.99	3.31	5.98	9.97	1.51	2.52	6.38	10.64	1.64	2.73
North	U79-L80	964	4.74	7.91	1.60	2.67	4.94	8.23	1.10	1.83	11.06	18.44	3.71	6.18	7.24	12.06	2.45	4.08	6.20	10.34	2.10	3.50	4.57	7.61	1.57	2.62	3.90	6.50	1.19	1.99	4.16	6.94	1.32	2.19
North	U80-L81	965	3.22	5.37	2.82	4.69	3.37	5.62	2.21	3.69	7.46	12.44	6.48	10.81	4.90	8.16	4.28	7.14	4.21	7.02	3.68	6.13	3.12	5.20	2.78	4.64	2.67	4.44	2.21	3.69	2.84	4.74	2.45	4.08
North	U81-L82	966	2.44	4.07	5.64	9.40	2.61	4.34	5.30	8.83	5.63	9.39	12.91	21.52	3.70	6.17	8.54	14.23	3.19	5.32	7.35	12.24	2.44	4.07	5.62	9.37	1.99	3.32	5.10	8.50	2.08	3.47	5.57	9.28
North	U83-L82	967	9.22	15.37	2.38	3.97	13.98	23.30	1.50	2.50	21.02	35.03	5.50	9.16	13.87	23.12	3.62	6.04	12.00	20.01	3.13	5.21	9.31	15.52	2.39	3.98	8.69	14.49	1.66	2.76	9.64	16.06	2.07	3.45
North	U84-L83	968	18.10	30.17	3.03	5.05	20.42	34.03	1.83	3.06	41.62	69.37	7.02	11.70	27.24	45.40	4.62	7.70	23.45	39.08	3.98	6.63	17.94	29.90	2.99	4.99	14.77	24.61	2.12	3.54	16.97	28.29	2.52	4.19
North	U85-L84	969	16.99	28.32	2.08	3.47	19.24	32.07	1.27	2.12	39.16	65.27	4.83	8.06	25.62	42.70	3.18	5.30	22.05	36.75	2.74	4.56	16.75	27.92	2.04	3.40	14.09	23.49	1.54	2.57	15.62	26.03	1.67	2.78
North	U86-L85	970	15.02	25.03	2.37	3.96	16.83	28.05	1.48	2.46	34.76	57.94	5.52	9.21	22.79	37.98	3.63	6.06	19.56	32.60	3.12	5.21	14.67	24.45	2.31	3.85	12.34	20.56	1.74	2.89	13.48	22.47	1.87	3.12
North	U87-L86	971	9.10	15.16	2.29	3.82	10.00	16.67	1.44	2.40	21.21	35.34	5.33	8.89	13.88	23.14	3.51	5.85	11.90	19.83	3.02	5.03	8.76	14.60	2.23	3.72	7.51	12.51	1.63	2.72	7.99	13.32	1.78	2.97
North	U88-L87	972	4.91	8.19	2.11	3.51	5.25	8.75	1.39	2.31	11.45	19.08	4.90	8.16	7.50	12.49	3.22	5.37	6.42	10.71	2.77	4.61	4.73	7.89	2.05	3.42	4.06	6.76	1.52	2.54	4.32	7.20	1.63	2.72
North	U89-L88	973	3.91	6.52	2.67	4.45	4.15	6.92	1.83	3.05	9.12	15.20	6.18	10.30	5.97	9.95	4.07	6.79	5.12	8.53	3.50	5.83	3.77	6.28	2.61	4.35	3.23	5.39	1.93	3.21	3.44	5.74	2.11	3.52
North	U90-L89	974	2.85	4.74	4.71	7.84	3.01	5.02	3.21	5.35	6.63	11.06	10.86	18.11	4.34	7.24	7.16	11.93	3.72	6.20	6.15	10.25	2.74	4.57	4.63	7.72	2.35	3.92	3.42	5.70	2.50	4.17	3.75	6.25
North	U90-L91	975	2.01	3.35	8.97	14.95	1.72	2.86	18.30	30.51	4.65	7.75	19.05	31.74	3.05	5.08	12.61	21.01	2.62	4.37	11.07	18.45	1.97	3.28	11.46	19.10	1.62	2.71	13.11	21.85	1.79	2.98	16.79	27.98

TranSystems

Made By SFH Date 3/30/2012
Checked By ADK Date 3/30/2012

Job No. P402100069
Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Built Truss Rating***

Load Factors Per MCEEB 6.5.="C"

	Dead Load	Live Load
Inventory	1.30	2.17
Operating	1.30	1.30

Truss	Member	Rating ID	As-Inspected Main Truss Load Rating																													
			HS-20 Truck				HS-20 Lane				2F-1				3F-1				4F-1				5C-1				Truck Train HS20				Truck Train 5C-1			
			Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension		Compression		Tension	
			Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.	Inv.	Oper.
North	U91-L92	976	6.38	10.63	4.28	7.13	6.15	10.26	10.03	16.72	14.67	24.44	9.21	15.36	9.68	16.14	6.09	10.16	8.32	13.86	5.33	8.88	6.40	10.67	5.20	8.66	5.22	8.70	5.81	9.68	5.80	9.66	7.21	12.01
North	U92-L93	977	40.01	66.68	2.61	4.35	54.70	91.16	3.00	5.00	89.95	149.91	5.67	9.45	58.49	97.49	3.75	6.25	50.94	84.90	3.27	5.45	48.16	80.27	3.13	5.21	35.40	59.00	2.62	4.36	40.97	68.29	3.07	5.11
North	U93-L94	978	45.82	76.37	1.85	3.09	60.62	101.04	1.60	2.67	102.56	170.94	4.05	6.74	66.41	110.69	2.68	4.46	58.17	96.96	2.33	3.89	54.69	91.15	2.19	3.64	33.10	55.16	1.62	2.70	35.96	59.94	1.87	3.12
North	U94-L95	979	56.75	94.58	1.99	3.31	47.11	78.52	1.44	2.41	131.04	218.40	4.52	7.53	86.07	143.45	2.99	4.98	73.85	123.08	2.58	4.30	57.06	95.10	1.98	3.30	30.91	51.52	1.50	2.49	38.52	64.20	1.74	2.89
North	U95-L96	980	56.32	93.87	2.08	3.46	78.95	131.58	1.39	2.32	131.29	218.82	4.80	8.00	86.83	144.71	3.17	5.29	73.71	122.86	2.72	4.53	55.89	93.16	2.06	3.44	31.42	52.36	1.61	2.69	38.70	64.50	1.79	2.98
North	U96-L97	981	47.59	79.31	1.89	3.15	58.41	97.35	1.60	2.67	110.40	184.00	4.34	7.23	72.96	121.60	2.88	4.79	62.08	103.46	2.46	4.11	48.23	80.38	1.91	3.18	29.34	48.91	1.55	2.58	35.04	58.41	1.71	2.84
North	U97-L98	982	27.82	46.37	1.55	2.58	44.49	74.14	1.52	2.54	54.31	90.52	3.54	5.89	37.71	62.85	2.35	3.91	34.05	56.74	2.01	3.36	30.93	51.55	1.60	2.67	24.21	40.35	1.32	2.20	30.03	50.05	1.53	2.55
North	U98-L99	983	9.66	16.10	1.57	2.62	16.27	27.12	1.73	2.89	19.49	32.49	3.55	5.91	13.28	22.14	2.36	3.94	11.92	19.86	2.03	3.38	13.50	22.51	1.67	2.78	11.43	19.05	1.40	2.33	16.55	27.59	1.75	2.92
North	U99-L100	984	3.52	5.86	2.38	3.96	7.81	13.02	3.98	6.63	7.57	12.62	5.28	8.80	5.07	8.46	3.54	5.90	4.46	7.44	3.05	5.08	4.37	7.28	2.66	4.43	4.75	7.92	2.34	3.89	6.25	10.41	3.36	5.60
North	U101-L100	985	3.40	5.67	2.44	4.07	7.91	13.18	4.20	6.99	7.36	12.27	5.42	9.03	4.98	8.30	3.61	6.01	4.30	7.16	3.15	5.24	4.16	6.93	2.74	4.57	4.84	8.07	2.46	4.10	5.99	9.98	3.56	5.94
North	U102-L101	986	8.38	13.97	1.36	2.27	15.63	26.05	1.56	2.60	17.13	28.56	3.07	5.12	11.83	19.71	2.03	3.39	10.28	17.13	1.77	2.94	11.92	19.86	1.45	2.42	12.81	21.36	1.24	2.06	18.89	31.48	1.57	2.61
North	U103-L102	987	27.47	45.78	1.61	2.68	46.99	78.31	1.53	2.55	56.33	93.88	3.66	6.11	37.84	63.07	2.42	4.04	34.49	57.49	2.10	3.49	31.15	51.92	1.66	2.77	30.67	51.12	1.38	2.30	40.80	67.99	1.62	2.70
North	U104-L103	988	58.80	97.99	1.87	3.12	104.48	174.13	1.59	2.65	135.06	225.10	4.30	7.17	89.70	149.51	2.84	4.73	77.02	128.37	2.45	4.08	59.80	99.67	1.89	3.15	40.64	67.73	1.55	2.58	49.31	82.18	1.70	2.83
North	U105-L104	989	94.54	157.56	3.55	5.91	148.60	247.66	2.82	4.71	216.86	361.43	8.19	13.65	144.66	241.10	5.40	8.99	123.72	206.21	4.65	7.75	93.29	155.48	3.53	5.88	50.77	84.61	2.76	4.61	64.43	107.38	3.08	5.14
North	U106-L105	990	90.37	150.61	3.61	6.02	146.87	244.79	2.68	4.46	198.83	331.38	8.11	13.52	132.75	221.25	5.40	8.99	114.26	190.43	4.65	7.75	88.98	148.30	3.60	5.99	45.34	75.56	2.70	4.50	59.73	99.55	3.16	5.27
North	U107-L106	991	74.43	124.05	3.22	5.37	124.36	207.27	2.62	4.36	158.51	264.18	7.02	11.70	105.00	175.00	4.65	7.76	90.84	151.40	4.04	6.73	88.00	146.66	3.67	6.12	56.66	94.44	2.59	4.32	61.26	102.10	3.14	5.23
North	U108-L107	992	37.49	62.48	2.66	4.44	87.03	145.05	2.88	4.80	80.02	133.37	5.76	9.59	52.93	88.21	3.81	6.35	45.80	76.34	3.32	5.53	44.62	74.37	3.12	5.21	36.67	61.12	2.61	4.35	42.06	70.10	3.05	5.08
North	U109-L108	993	5.28	8.80	7.22	12.03	5.42	9.04	15.11	25.18	12.17	20.28	15.32	25.53	8.03	13.38	10.10	16.83	6.88	11.47	8.87	14.79	5.24	8.73	9.06	15.11	4.13	6.88	10.28	17.13	4.59	7.64	13.03	21.72
North	U110-L109	994	3.25	5.41	11.33	18.88	2.93	4.89	22.16	36.93	7.51	12.52	23.99	39.98	4.92	8.21	15.82	26.36	4.23	7.05	13.91	23.18	3.17	5.29	14.40	23.99	2.56	4.26	15.82	26.37	2.81	4.69	20.30	33.84
North	U110-L111	995	4.35	7.24	5.04	8.41	4.73	7.88	3.72	6.20	10.13	16.88	11.67	19.45	6.62	11.04	7.67	12.79	5.68	9.47	6.60	11.00	4.18	6.97	4.93	8.22	3.55	5.92	3.73	6.22	3.79	6.32	4.17	6.96
North	U111-L112	996	5.16	8.59	3.13	5.21	5.50	9.17	2.21	3.68	12.02	20.03	7.25	12.09	7.86	13.10	4.77	7.94	6.74	11.23	4.10	6.84	4.96	8.27	3.04	5.07	4.22	7.03	2.27	3.79	4.50	7.49	2.51	4.18
North	U112-L113	997	6.42	10.70	1.98	3.29	6.89	11.48	1.27	2.11	14.96	24.93	4.59	7.66	9.78	16.31	3.02	5.03	8.39	13.98	2.60	4.33	6.17	10.29	1.91	3.18	5.25	8.74	1.43	2.38	5.60	9.33	1.60	2.67
North	U113-L114	998	14.27	23.79	2.05	3.41	15.83	26.38	1.27	2.11	33.29	55.48	4.77	7.95	21.77	36.29	3.13	5.22	18.66	31.11	2.70	4.50	13.73	22.88	1.97	3.28	11.66	19.43	1.46	2.43	12.43	20.72	1.63	2.72
North	U114-L115	999	50.03	83.38	2.37	3.95	57.35	95.59	1.42	2.36	117.52	195.87	5.54	9.23	76.80	128.00	3.64	6.07	65.79	109.65	3.13	5.21	47.36	78.93	2.28	3.80	39.12	65.19	1.73	2.89	42.36	70.60	1.87	3.11
North	U115-L116	1000	45.27	75.46	2.26	3.76	105.02	175.04	1.35	2.25	102.39	170.65	5.26	8.76	67.89	113.15	3.46	5.77	58.97	98.29	2.97	4.96	48.81	81.35	2.19	3.65	57.03	95.05	1.67	2.78	61.50	102.50	1.81	3.02
North	U116-L117	1001	17.75	29.58	3.03	5.05	41.26	68.77	2.08	3.47	40.09	66.81	7.03	11.71	26.57	44.28	4.63	7.72	23.00	38.34	3.99	6.64	18.58	30.97	2.98	4.97	21.34	35.57	2.18	3.64	23.43	39.04	2.56	4.26
North	U117-L118	1002	10.23	17.05	2.98	4.97	22.69	37.82	2.33	3.88	23.39	38.98	6.86	11.44	15.43	25.72	4.53	7.56	13.32	22.20	3.91	6.52	10.51	17.51	2.99	4.98	12.72	21.21	2.29	3.82	13.54	22.57	2.76	4.60
North	U119-L118	1003	2.64	4.40	9.72	16.20	2.61	4.35	18.55	30.91	6.04	10.07	22.38	37.30	4.00	6.66	14.71	24.52	3.45	5.75	12.70	21.16	2.69	4.48	9.82	16.37	2.28	3.79	11.51	19.18	2.44	4.07	12.55	20.91
North	U120-L119	1004	3.51	5.84	4.72	7.86	4.75	7.92	5.56	9.27	7.96	13.27	10.93	18.21	5.28	8.79	7.18	11.96	4.56	7.60	6.18	10.30	3.58	5.97	4.69	7.81	3.23	5.38	4.26	7.11	3.58	5.97	4.94	8.24
North	U121-L120	1005	3.83	6.39	1.77	2.95	4.37	7.28	1.53	2.54	8.94	14.89	4.11	6.85	5.85	9.75	2.70	4.50	5.01	8.36	2.32	3.87	3.68	6.14	1.74	2.90	3.14	5.24	1.51	2.52	3.35	5.58	1.59	2.64
North	U122-L121	1006	6.95	11.58	1.89	3.15	8.00	13.33	1.43	2.38	16.19	26.98	4.42	7.37	10.60	17.66	2.90	4.83	9.09	15.14	2.49	4.15	6.68	11.13	1.84	3.06	5.70	9.50	1.42	2.37	6.07	10.12	1.54	2.57
North	U123-L122	1007	9.53	15.89	2.15	3.59	11.11	18.51	1.54	2.56	22.20	37.00	5.05	8.41	14.53	24.22	3.31	5.51	12.46	20.77	2.84	4.73	9.16	15.27	2.08	3.46	7.82	13.04	1.56	2.60	8.34	13.90	1.74	2.90
North	U124-L123	1008	11.81	19.69	2.83	4.72	13.99	23.32	1.95	3.25	27.52	45.87	6.68	11.13	18.00	30.00	4.37	7.28	15.44	25.73	3.74	6.24	11.37	18.95	2.70	4.50	9.67	16.12	2.04	3.39	10.32	17.19	2.28	3.81
North	U125-L124	1009	11.38	18.97	2.77	4.62	13.91	23.18	1.87	3.12	26.52	44.20	6.54	10.90	17.34	28.91	4.28	7.13	14.87	24.79	3.66	6.10	10.95	18.25	2.62	4.37	9.31	15.52	1.93	3.22	9.94	16.56	2.10	3.50
North	U126-L125	1010	11.59	19.31	3.48	5.80	13.89	23.15	2.16	3.60	27.00	45.00	8.25	13.75	17.66	29.43	5.39	8.99	15.14	25.24	4.61	7.69	11.15	18.58	3.27	5.45	9.48	15.80	2.35	3.92	10.11	16.85	2.56	4.26
			0.67	1.11	0.78	1.30	0.64	1.06	0.64	1.07	1.53	2.54	1.68	2.80	1.01	1.68	1.13	1.88	0.87	1.46	1.00	1.66	0.68	1.14	0.80	1.33	0.57	0.95	0.66	1.10	0.65	1.08	0.71	1.18
			North	North	South	South	North	North	North	North	North	North	South	South	North	North	South	South	North	North	South	South	North	North	North	North	North	North	North	North	North	North	North	North
			U48-L48	U48-L48	U27-L26	U27-L26	U48-L48	U48-L48	U52-L53	U52-L53	U48-L48	U48-L48	U27-L26	U27-L26	U48-L48	U48-L48	U27-L26	U27-L26	U48-L48	U48-L48	U27-L26	U27-L26	U48-L48	U48-L48	U52-L53	U52-L53	U48-L48	U48-L48	U52-L53	U52-L53	U48-L48	U48-L48	U52-L53	U52-L53

Truss	Member	Rating ID	As-Inspected Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
South	L0-L1	1	4.61	165.94	7.68	276.57	19.68	708.47	12.88	463.66	11.00	396.12	7.77	279.89	5.94	214.01	7.55	271.91
South	L1-L2	2	3.09	111.12	5.14	185.20	11.31	407.17	7.59	273.19	6.55	235.70	5.34	192.26	4.23	152.24	5.39	194.10
South	L2-L3	3	1.95	70.36	3.26	117.27	7.20	259.07	4.80	172.82	4.15	149.44	3.38	121.85	2.82	101.45	3.35	120.50
South	L3-L4	4	1.95	70.35	3.26	117.26	7.21	259.69	4.78	171.96	4.15	149.44	3.40	122.48	2.89	104.16	3.31	119.17
South	L4-L5	5	1.92	69.16	3.20	115.27	7.14	257.11	4.76	171.50	4.10	147.62	3.36	120.88	2.89	104.01	3.30	118.71
South	L5-L6	6	1.61	57.95	2.68	96.58	6.08	219.00	4.03	145.25	3.50	126.04	2.82	101.45	2.34	84.38	2.72	98.08
South	L6-L7	7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L7-L8	8	1.65	59.37	2.75	98.95	6.58	237.02	4.36	156.82	3.77	135.74	2.96	106.44	2.53	91.01	2.74	98.75
South	L8-L9	9	1.42	51.03	2.36	85.05	6.17	222.11	4.08	146.99	3.54	127.26	2.74	98.78	2.26	81.41	2.53	90.90
South	L9-L10	10	1.45	52.04	2.41	86.73	6.99	251.66	4.63	166.53	3.99	143.50	3.04	109.37	2.44	87.91	2.70	97.32
South	L10-L11	11	1.44	51.67	2.39	86.11	6.94	249.87	4.59	165.34	3.96	142.48	3.02	108.59	2.42	87.29	2.68	96.63
South	L11-L12	12	1.78	64.07	2.97	106.78	6.85	246.72	4.53	163.18	3.91	140.67	2.97	106.80	2.60	93.75	2.93	105.63
South	L12-L13	13	1.78	64.11	2.97	106.85	6.80	244.67	4.49	161.79	3.87	139.49	2.93	105.66	2.57	92.46	3.23	116.29
South	L13-L14	14	2.09	75.15	3.48	125.25	7.96	286.74	5.27	189.74	4.55	163.63	3.44	123.96	3.01	108.33	4.13	148.55
South	L14-L15	15	2.52	90.69	4.20	151.16	9.77	351.60	6.47	232.75	5.58	200.83	4.26	153.46	3.73	134.34	4.41	158.72
South	L15-L16	16	2.42	87.07	4.03	145.12	10.77	387.70	7.12	256.35	6.13	220.55	4.73	170.14	3.90	140.36	4.22	152.10
South	L16-L17	17	2.19	78.91	3.65	131.52	8.21	295.53	5.45	196.24	4.70	169.15	3.69	132.88	3.36	121.09	3.72	134.07
South	L17-L18	18	1.67	60.30	2.79	100.49	6.27	225.81	4.17	149.94	3.59	129.24	2.82	101.53	2.38	85.58	2.66	95.77
South	L18-L19	19	1.34	48.24	2.23	80.40	5.91	212.63	3.92	141.19	3.38	121.70	2.64	94.98	1.92	69.25	2.12	76.27
South	L19-L20	20	1.02	36.87	1.71	61.46	5.66	203.80	3.74	134.49	3.21	115.50	2.42	87.02	1.69	60.72	1.87	67.49
South	L20-L21	21	1.24	44.53	2.06	74.21	4.85	174.76	3.22	116.03	2.78	100.01	2.18	78.44	1.88	67.62	2.06	74.05
South	L21-L22	22	1.59	57.25	2.65	95.42	5.89	211.96	3.95	142.23	3.39	122.06	2.70	97.35	2.34	84.15	2.70	97.19
South	L22-L23	23	2.54	91.32	4.23	152.20	9.34	336.40	6.27	225.61	5.49	197.79	4.44	159.98	3.77	135.59	4.39	157.87
South	L23-L24	24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L24-L25	25	2.50	90.08	4.17	150.13	8.92	321.12	6.05	217.78	5.28	190.16	4.61	165.86	3.99	143.53	4.60	165.77
South	L25-L26	26	1.55	55.94	2.59	93.24	5.59	201.40	3.77	135.72	3.26	117.47	2.91	104.89	2.58	92.80	2.92	104.97
South	L26-L27	27	3.40	122.46	5.67	204.10	12.51	450.41	8.36	301.02	7.32	263.57	6.49	233.72	5.54	199.32	6.55	235.63
South	L27-L28	28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L28-L29	29	3.01	108.48	5.02	180.81	11.28	406.03	7.50	270.03	6.53	235.00	5.44	195.73	4.62	166.23	5.48	197.14
South	L29-L30	30	1.88	67.82	3.14	113.04	7.06	254.11	4.69	169.00	4.09	147.14	3.30	118.75	2.79	100.34	3.32	119.52
South	L30-L31	31	2.11	76.03	3.52	126.72	7.91	284.87	5.26	189.46	4.58	164.95	3.70	133.12	3.12	112.49	3.72	133.98
South	L31-L32	32	2.44	87.94	4.07	146.57	9.16	329.67	6.09	219.13	5.30	190.69	4.25	152.99	3.72	134.04	4.25	152.99
South	L32-L33	33	2.73	98.18	4.55	163.63	10.69	384.67	7.13	256.70	6.12	220.49	4.74	170.76	4.03	145.11	4.35	156.43
South	L33-L34	34	1.76	63.52	2.94	105.87	7.36	265.03	4.88	175.51	4.20	151.18	3.23	116.23	2.75	98.94	2.93	105.53
South	L34-L35	35	2.12	76.32	3.53	127.20	9.35	336.49	6.16	221.81	5.32	191.54	4.10	147.59	3.42	123.18	3.71	133.41
South	L35-L36	36	2.42	87.25	4.04	145.42	10.71	385.59	7.09	255.35	6.10	219.57	4.70	169.35	3.89	140.20	4.21	151.69
South	L36-L37	37	1.99	71.80	3.32	119.66	8.18	294.66	5.41	194.84	4.65	167.45	3.55	127.97	2.95	106.16	3.18	114.51
South	L37-L38	38	3.30	118.93	5.51	198.21	12.54	451.52	8.29	298.46	7.14	257.07	5.52	198.79	4.58	164.74	5.02	180.58
South	L38-L39	39	1.85	66.42	3.08	110.70	9.07	326.52	6.03	217.19	5.18	186.51	3.96	142.40	2.76	99.22	3.04	109.48
South	L39-L40	40	1.22	43.85	2.03	73.08	7.09	255.22	4.68	168.45	4.01	144.23	2.95	106.27	1.99	71.69	2.24	80.53
South	L40-L41	41	2.03	73.06	3.38	121.76	7.81	281.32	5.21	187.70	4.48	161.46	3.48	125.18	2.93	105.65	3.28	118.09
South	L41-L42	42	4.09	147.25	6.82	245.42	15.32	551.62	10.22	367.84	8.92	321.03	6.96	250.40	5.76	207.34	6.69	240.79
South	L42-L43	43	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L43-L44	44	3.56	128.32	5.94	213.86	13.01	468.37	8.76	315.19	7.65	275.41	6.30	226.87	5.44	195.97	6.23	224.35
South	L44-L45	45	1.92	68.97	3.19	114.95	6.98	251.43	4.69	168.84	4.05	145.67	3.39	122.02	3.00	107.83	3.38	121.78
South	L45-L46	46	1.96	70.60	3.27	117.66	7.20	259.27	4.81	173.33	4.19	150.70	3.50	125.95	3.06	110.22	3.48	125.23
South	L46-L47	47	3.96	142.53	6.60	237.54	14.75	530.96	9.82	353.40	8.56	308.20	7.19	258.83	6.09	219.30	7.09	255.14
South	L47-L48	48	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L48-L49	49	3.63	130.66	6.05	217.77	14.45	520.03	9.53	343.13	8.23	296.18	6.66	239.66	5.50	197.86	6.31	227.18
South	L49-L50	50	1.98	71.43	3.31	119.05	9.01	324.41	5.91	212.87	5.11	183.86	4.06	146.03	3.28	117.94	3.72	133.94
South	L50-L51	51	2.15	77.29	3.58	128.81	10.09	363.15	6.62	238.29	5.72	205.82	4.54	163.46	3.67	132.02	4.16	149.92
South	L51-L52	52	3.48	125.30	5.80	208.83	13.21	475.63	8.67	312.10	7.49	269.52	5.92	213.15	5.04	181.47	5.64	203.19
South	L52-L53	53	3.70	133.12	6.16	221.86	16.06	578.05	10.53	379.10	9.09	327.36	7.15	257.54	6.05	217.94	6.66	239.64
South	L53-L54	54	1.90	68.50	3.17	114.17	9.21	331.69	6.05	217.85	5.21	187.58	3.96	142.39	3.37	121.43	3.57	128.55
South	L54-L55	55	1.54	55.45	2.57	92.41	7.82	281.68	5.14	184.88	4.42	159.01	3.35	120.48	2.74	98.52	3.00	108.15
South	L55-L56	56	2.71	97.61	4.52	162.68	14.45	520.35	9.48	341.36	8.14	293.20	6.20	223.12	4.94	178.00	5.37	193.18
South	L56-L57	57	2.60	93.54	4.33	155.90	13.98	503.46	9.18	330.32	7.88	283.83	5.97	214.89	4.74	170.62	5.13	184.86
South	L57-L58	58	1.90	68.39	3.17	113.99	9.62	346.34	6.32	227.38	5.43	195.65	4.13	148.85	3.31	119.08	3.53	127.20
South	L58-L59	59	2.39	85.94	3.98	143.23	10.91	392.72	7.14	257.11	6.15	221.22	4.63	166.62	3.72	133.81	3.95	142.19
South	L59-L60	60	2.45	88.24	4.09	147.07	11.69	420.88	7.66	275.79	6.60	237.53	5.06	182.07	3.53	127.02	4.00	144.03
South	L60-L61	61	1.65	59.48	2.75	99.13	10.66	383.79	6.99	251.58	6.00	216.12	4.47	160.91	2.90	104.46	3.26	117.43
South	L61-L62	62	1.19	42.67	1.98	71.12	8.71	313.71	5.70	205.14	4.89	175.88	3.56	128.19	2.27	81.62	2.53	91.00
South	L62-L63	63	1.44	51.71	2.39	86.19	6.17	222.24	4.04	145.42	3.48	125.35	2.67	96.03	2.24	80.67	2.44	87.99
South	L63-L64	64	1.53	54.98	2.55	91.63	6.09	219.22	3.99	143.74	3.44	123.74	2.67	96.17	2.25	80.90	2.47	88.88
South	L64-L65	65	3.80	136.83	6.33	228.05	14.57	524.49	9.62	346.49	8.27	297.61	6.52	234.68	5.36	193.10	6.26	225.31
South	L65-L66	66	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L66-L67	67	3.36	121.03	5.60	201.72	12.69	456.94	8.38	301.85	7.24	260.58	6.05	217.69	5.07	182.70	5.92	213.17
South	L67-L68	68	1.68	60.54	2.80	100.90	6.30	226.65	4.13	148.59	3.58	128.95	2.98	107.18	2.62	94.22	2.97	106.96
South	L68-L69	69	1.75	63.05	2.92	105.08	6.53	235.21	4.28	153.99	3.71	133.43	3.09	111.10	2.71	97.52	3.07	110.61
South	L69-L70	70	3.57	128.60	5.95	214.34	13.37	481.41	8.88	319.61	7.67	276.08	6.36	228.97	5.34	192.06	6.30	226.73
South	L70-L71	71	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L71-L72	72	3.62	130.41	6.04	217.35	13.75	494.86	9.09	327.27	7.87	283.20	6.24	224.72	5.05	181.97	5.81	209.26
South	L72-L73	73	2.37	85.25	3.95	142.08	9.86	354.94	6.49	233.46	5.58	200.93	4.37	157.17	3.58	128.91	4.01	144.43
South	L73-L74	74	1.54	55.35	2.56	92.25	7.27	261.65	4.75	171.18	4.09	147.36	3.15	113.52	2.50	90.13	2.70	97.16
South	L74-L75	75	1.61	58.11	2.69	96.85	7.63	274.62	4.99	179.67	4.30	154.66	3.31	119.15	2.63	94.61	2.83	102.00
South	L75-L76	76	2.06	74.07	3.43	123.45	7.88	283.73	5.16	185.68	4.44	159.77	3.40	122.56	3.00	107.83	3.27	117.59
South	L76-L77	77	2.72	97.76	4.53	162.93	10.41	374.68	6.81	245.24	5.86	210.98	4.49	161.56	3.89	140.07	4.28	154.23
South	L77-L78	78	1.89	68.05	3.15	113.42	11.06	398.08	7.23	260.27	6.20	223.35	4.55	163.85	3.41	122.88	3.63	130.64
South	L78-L79	79	1.82	65.42	3.03	109.03	11.02	396.86	7.20	259.29	6.18	222.51	4.52	162.77	3.31	119.14	3.58	128.99
South	L79-L80	80	1.55	55.81	2.58	93.01	9.70	349.32	6.35	228.44	5.44	195.90	3.97	142.99	2.87	103.29	3.12	112.45
South	L80-L81	81	1.70	61.35	2.84	102.26	10.94	393.87	7.16	257.75	6.14	220.86	4.49	161.77	3.22	115.96	3.47	125.02
South	L81-L82	82	1.73	62.18	2.88	103.64	11.39	410.07	7.45	268.35	6.38	229.81	4.69	168.89	3.32	119.48	3.60	129.52

TranSystems

Made By SFH | Date 3/30/2012 | Job No. P402110046

Checked By ADK | Date 3/30/2012 | Sheet No.

Calculations For: ***CUY-2-1441 Main Truss, As-Inspected Truss Rating Summary***

Truss	Member	Rating ID	As-Inspected Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
South	L82-L83	83	1.98	71.14	3.29	118.57	13.12	472.24	8.58	308.81	7.36	264.90	5.39	193.95	3.79	136.59	4.12	148.28
South	L83-L84	84	1.96	70.54	3.27	117.57	12.66	455.91	8.28	298.22	7.10	255.63	5.20	187.21	3.70	133.16	4.00	144.17
South	L84-L85	85	2.49	89.51	4.14	149.19	9.66	347.85	6.32	227.51	5.42	195.09	3.99	143.59	3.40	122.56	3.63	130.74
South	L85-L86	86	2.15	77.48	3.59	129.13	8.57	308.41	5.60	201.71	4.80	172.96	3.54	127.31	2.90	104.57	3.12	112.27
South	L86-L87	87	1.68	60.34	2.79	100.57	8.17	293.99	5.34	192.27	4.58	164.88	3.37	121.35	2.43	87.51	2.66	95.69
South	L87-L88	88	1.33	47.98	2.22	79.96	7.88	283.69	5.15	185.54	4.42	159.10	3.25	117.10	2.11	75.91	2.34	84.21
South	L88-L89	89	1.46	52.73	2.44	87.89	10.34	372.40	6.77	243.56	5.80	208.86	4.26	153.37	2.53	90.90	2.80	100.91
South	L89-L90	90	1.49	53.55	2.48	89.24	12.00	432.18	7.86	282.79	6.72	241.76	4.82	173.57	2.73	98.46	3.07	110.46
South	L90-L91	91	2.34	84.16	3.90	140.27	14.29	514.59	9.36	336.82	8.02	288.75	5.92	213.12	4.11	147.81	4.64	167.04
South	L91-L92	92	2.04	73.61	3.41	122.68	11.82	425.65	7.74	278.47	6.64	238.95	4.91	176.62	3.53	127.04	3.95	142.33
South	L92-L93	93	1.34	48.15	2.23	80.25	7.31	263.13	4.78	172.02	4.11	147.83	3.04	109.61	2.28	82.21	2.55	91.93
South	L93-L94	94	1.22	44.05	2.04	73.42	6.27	225.77	4.10	147.76	3.52	126.88	2.63	94.84	2.04	73.29	2.30	82.68
South	L94-L95	95	0.82	29.70	1.37	49.49	3.92	141.20	2.57	92.65	2.21	79.54	1.68	60.38	1.31	47.01	1.47	52.99
South	L95-L96	96	2.57	92.41	4.28	154.01	11.27	405.87	7.46	268.40	6.37	229.40	4.86	174.83	3.84	138.10	4.25	152.98
South	L96-L97	97	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L97-L98	98	1.68	60.31	2.79	100.52	6.76	243.35	4.47	160.90	3.83	137.95	2.99	107.50	2.44	87.80	2.71	97.42
South	L98-L99	99	1.75	62.90	2.91	104.83	7.10	255.56	4.66	167.62	4.01	144.37	3.14	112.93	2.64	94.96	2.93	105.44
South	L99-L100	100	1.79	64.47	2.98	107.45	7.31	263.30	4.79	172.53	4.13	148.80	3.25	116.91	2.76	99.54	3.03	108.94
South	L100-L101	101	1.81	65.24	3.02	108.73	7.41	266.77	4.85	174.61	4.18	150.53	3.29	118.31	2.80	100.90	3.07	110.49
South	L101-L102	102	1.74	62.61	2.90	104.34	7.06	254.17	4.64	167.07	4.00	143.85	3.12	112.33	2.62	94.43	2.92	105.08
South	L102-L103	103	1.86	66.85	3.09	111.41	7.48	269.30	4.94	177.75	4.27	153.66	3.31	119.11	2.71	97.45	2.98	107.27
South	L103-L104	104	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	L104-L105	105	1.34	48.10	2.23	80.17	5.95	214.03	3.91	140.91	3.37	121.47	2.56	92.16	2.00	72.09	2.22	80.07
South	L105-L106	106	1.30	46.86	2.17	78.10	6.27	225.88	4.13	148.77	3.54	127.50	2.68	96.38	2.07	74.41	2.33	83.85
South	L106-L107	107	1.32	47.68	2.21	79.47	6.86	246.79	4.49	161.67	3.86	138.83	2.88	103.62	2.21	79.59	2.50	90.07
South	L107-L108	108	1.27	45.80	2.12	76.33	7.03	253.11	4.59	165.36	3.94	141.99	2.92	105.27	2.17	78.26	2.43	87.51
South	L108-L109	109	1.19	42.76	1.98	71.26	6.93	249.53	4.53	163.18	3.89	140.02	2.88	103.53	2.05	73.97	2.31	83.00
South	L109-L110	110	1.24	44.61	2.07	74.35	7.64	274.88	5.00	179.83	4.29	154.35	3.17	113.97	2.19	78.70	2.47	88.88
South	L110-L111	111	2.18	78.42	3.63	130.70	16.24	584.79	10.62	382.33	9.10	327.47	6.60	237.67	3.72	134.03	4.19	150.79
South	L111-L112	112	1.87	67.46	3.12	112.43	12.12	436.35	7.94	285.68	6.80	244.93	5.01	180.22	3.04	109.60	3.37	121.48
South	L112-L113	113	2.04	73.55	3.40	122.58	11.34	408.06	7.42	267.14	6.36	229.06	4.68	168.57	3.11	112.05	3.45	124.08
South	L113-L114	114	2.22	80.03	3.71	133.39	10.39	373.98	6.80	244.83	5.83	209.94	4.29	154.51	3.16	113.67	3.45	124.10
South	L114-L115	115	2.79	100.39	4.65	167.31	10.85	390.49	7.10	255.64	6.09	219.21	4.48	161.33	3.73	134.18	4.01	144.28
South	L115-L116	116	2.03	73.14	3.39	121.90	11.46	412.71	7.51	270.19	6.44	231.68	4.74	170.50	3.66	131.90	3.94	141.78
South	L116-L117	117	1.47	52.89	2.45	88.14	10.85	390.69	7.11	255.93	6.09	219.14	4.41	158.87	3.13	112.54	3.34	120.14
South	L117-L118	118	1.39	49.92	2.31	83.20	10.42	375.18	6.83	245.76	5.84	210.38	4.25	153.15	2.97	107.10	3.19	114.96
South	L118-L119	119	1.33	47.72	2.21	79.53	9.86	354.85	6.45	232.21	5.53	198.95	4.03	145.00	2.86	102.81	3.06	110.02
South	L119-L120	120	1.27	45.57	2.11	75.95	9.17	330.06	6.00	215.98	5.14	185.02	3.74	134.80	2.68	96.64	2.87	103.36
South	L120-L121	121	1.57	56.54	2.62	94.23	11.06	398.21	7.24	260.52	6.20	223.24	4.52	162.67	3.25	117.05	3.53	127.05
South	L121-L122	122	1.75	62.86	2.91	104.77	11.81	425.28	7.74	278.51	6.63	238.83	4.86	175.06	3.56	128.04	3.80	136.91
South	L122-L123	123	1.73	62.35	2.89	103.91	11.25	405.07	7.39	265.96	6.33	228.05	4.68	168.36	3.48	125.23	3.67	132.13
South	L123-L124	124	1.90	68.53	3.17	114.22	11.87	427.48	7.82	281.52	6.72	241.90	5.05	181.94	3.68	132.51	3.99	143.55
South	L124-L125	125	5.35	192.46	8.91	320.77	32.07	1154.62	21.20	763.09	18.34	660.42	13.94	501.78	9.94	357.89	10.94	393.84
South	L125-L126	126	25.24	908.64	42.07	1514.40	178.33	6420.05	116.31	4187.34	99.20	3571.17	68.96	2482.51	43.98	1583.13	47.52	1710.67
South	U0-U1	127	3.09	111.08	5.14	185.13	11.43	411.60	7.65	275.53	6.69	240.89	5.32	191.51	4.52	162.89	5.16	185.75
South	U1-U2	128	1.48	53.27	2.47	88.79	5.46	196.55	3.67	131.95	3.15	113.37	2.54	91.57	2.22	80.01	2.50	89.99
South	U2-U3	129	1.77	63.62	2.95	106.03	6.53	234.99	4.33	155.78	3.76	135.26	3.07	110.38	2.72	97.80	3.00	107.98
South	U3-U4	130	1.33	47.91	2.22	79.84	4.95	178.09	3.30	118.75	2.84	102.25	2.33	83.80	2.06	74.05	2.30	82.93
South	U4-U5	131	1.40	50.23	2.33	83.71	5.22	187.83	3.47	124.95	3.02	108.79	2.44	87.88	2.10	75.70	2.44	87.67
South	U5-U6	132	1.40	50.22	2.33	83.70	5.22	187.82	3.47	124.94	3.02	108.78	2.44	87.87	2.10	75.69	2.44	87.66
South	U6-U7	133	1.92	69.20	3.20	115.34	7.27	261.78	4.82	173.56	4.18	150.60	3.36	120.82	2.81	100.99	3.25	116.96
South	U7-U8	134	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U8-U9	135	2.46	88.38	4.09	147.31	9.80	352.96	6.49	233.49	5.61	202.06	4.38	157.67	3.63	130.61	3.96	142.47
South	U9-U10	136	2.11	75.97	3.52	126.62	9.27	333.89	6.13	220.83	5.31	191.08	4.10	147.70	3.30	118.86	3.62	130.45
South	U10-U11	137	2.26	81.35	3.77	135.58	8.70	313.18	5.75	207.08	4.97	179.04	3.77	135.78	3.30	118.80	3.74	134.53
South	U11-U12	138	2.29	82.51	3.82	137.51	8.74	314.70	5.78	208.13	5.00	179.89	3.79	136.62	3.33	120.05	4.25	152.89
South	U12-U13	139	2.62	94.15	4.36	156.92	9.97	358.87	6.59	237.38	5.70	205.14	4.33	156.00	3.82	137.47	5.29	190.36
South	U13-U14	140	2.12	76.27	3.53	127.11	9.41	338.94	6.21	223.47	5.36	193.01	4.13	148.56	3.44	123.89	3.72	133.86
South	U14-U15	141	1.72	62.06	2.87	103.44	8.09	291.18	5.33	192.02	4.59	165.37	3.56	128.01	2.91	104.62	3.21	115.73
South	U15-U16	142	1.72	62.06	2.87	103.44	8.09	291.17	5.33	192.02	4.59	165.36	3.56	128.00	2.91	104.62	3.21	115.73
South	U16-U17	143	1.89	67.95	3.15	113.26	8.48	305.29	5.62	202.26	4.83	173.75	3.70	133.34	3.06	110.08	3.31	119.28
South	U17-U18	144	2.56	92.28	4.27	153.79	9.83	353.98	6.53	235.06	5.63	202.56	4.42	159.01	3.94	141.88	4.30	154.63
South	U18-U19	145	2.09	75.41	3.49	125.69	7.85	282.63	5.21	187.69	4.49	161.72	3.53	126.92	3.13	112.56	3.54	127.52
South	U19-U20	146	2.20	79.15	3.66	131.92	8.24	296.71	5.47	197.04	4.72	169.76	3.70	133.19	3.26	117.25	3.71	133.68
South	U20-U21	147	2.08	74.92	3.47	124.87	8.06	290.24	5.39	193.93	4.64	167.20	3.71	133.55	3.03	108.93	3.61	129.96
South	U21-U22	148	3.05	109.82	5.08	183.04	11.33	408.01	7.57	272.68	6.58	236.87	5.35	192.54	4.26	153.18	5.28	190.23
South	U22-U23	149	10.74	386.63	17.90	644.38	40.03	1441.05	26.50	953.98	22.94	825.83	18.10	651.52	14.26	513.44	19.37	697.31
South	U23-U24	150	1.90	68.56	3.17	114.27	6.80	244.74	4.61	165.94	4.00	143.87	3.42	123.05	3.00	107.93	3.54	127.31
South	U24-U25	151	1.30	46.74	2.16	77.91	4.67	168.04	3.12	112.25	2.72	97.87	2.38	85.79	2.18	78.35	2.42	87.11
South	U25-U26	152	1.30	46.75	2.16	77.92	4.67	168.07	3.12	112.26	2.72	97.89	2.38	85.81	2.18	78.36	2.42	87.13
South	U26-U27	153	1.49	53.67	2.48	89.45	5.38	193.69	3.62	130.37	3.14	112.87	2.76	99.32	2.47	88.92	2.78	100.26
South	U27-U28	154	2.99	107.77	4.99	179.61	11.04	397.31	7.37	265.36	6.45	232.20	5.67	204.08	4.83	173.79	5.69	204.93
South	U28-U29	155	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U29-U30	156	5.35	192.65	8.92	321.08	20.11	723.99	13.36	480.85	11.61	418.10	9.56	344.19	8.01	288.36	9.46	340.70
South	U30-U31	157	3.49	125.54	5.81	209.24	13.09	471.25	8.70	313.13	7.56	272.32	6.06	218.28	5.31	191.15	6.06	218.30
South	U31-U32	158	2.36	84.88	3.93	141.47	9.46	340.62	6.31	227.17	5.42	195.12	4.16	149.81	3.52	126.84	3.79	136.52
South	U32-U33	159	1.18	42.55	1.97	70.92	4.97	178.91	3.29	118.60	2.83	102.03	2.17	78.28	1.85	66.72	1.97	71.00
South	U33-U34	160	1.31	47.22	2.19	78.69	5.80	208.69	3.82	137.61	3.30	118.88	2.54	91.47	2.12	76.48	2.30	82.72
South	U34-U35	161	1.28	46.25	2.14	77.08	5.99	215.57	3.95	142.19	3.40	122.45	2.64	94.91	2.16	77.78	2.39	85.89
South	U35-U36	162	1.28	46.25	2.14	77.08	5.99	215.55	3.95	142.18	3.40	122.45	2.64	94.91	2.16	77.78	2.39	85.88
South	U36-U37	163	1.42	51.06	2.36	85.09	6.33	227.82	4.20	151.11	3.60	129.77	2.77	99.60	2.29	82.45	2.48	89.23
South	U37-U38	164	1.79	64.42	2.98	107.36	7.56	272.33	5.01	180.53	4.32	155.42	3.33	119.89	2.78	99.93	2.99	107.56

Truss	Member	Rating ID	As-Inspected Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
South	U38-U39	165	4.32	155.68	7.21	259.47	16.60	597.69	11.03	397.18	9.54	343.32	7.49	269.59	6.25	224.88	6.84	246.23
South	U39-U40	166	5.92	212.95	9.86	354.92	22.32	803.50	14.81	533.08	12.78	460.08	9.95	358.21	7.93	285.45	9.24	332.63
South	U40-U41	167	5.37	193.14	8.94	321.90	27.05	973.81	17.91	644.70	15.45	556.02	12.20	439.15	9.02	324.72	10.65	383.56
South	U41-U42	168	19.99	719.53	33.31	1199.22	73.01	2628.27	48.32	1739.62	42.09	1515.07	34.99	1259.63	26.66	959.84	37.39	1346.20
South	U42-U43	169	2.89	103.87	4.81	173.11	10.53	379.13	7.09	255.20	6.16	221.59	5.04	181.36	4.23	152.43	5.21	187.40
South	U43-U44	170	1.53	54.97	2.55	91.62	5.59	201.36	3.75	134.98	3.23	116.42	2.68	96.39	2.37	85.20	2.74	98.72
South	U44-U45	171	1.42	51.04	2.36	85.06	5.21	187.69	3.45	124.11	3.00	107.92	2.58	93.00	2.32	83.43	2.56	92.34
South	U45-U46	172	1.42	51.04	2.36	85.07	5.21	187.73	3.45	124.13	3.00	107.94	2.58	93.03	2.32	83.45	2.57	92.36
South	U46-U47	173	1.65	59.53	2.76	99.21	6.07	218.61	4.06	146.14	3.53	127.07	2.94	105.90	2.57	92.68	2.94	105.86
South	U47-U48	174	3.65	131.56	6.09	219.27	13.63	490.82	9.07	326.55	7.91	284.64	6.62	238.26	5.58	200.87	6.53	235.26
South	U48-U49	175	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U49-U50	176	8.06	290.19	13.43	483.65	30.48	1097.15	20.10	723.61	17.34	624.27	13.97	502.85	11.62	418.24	13.35	480.58
South	U50-U51	177	5.18	186.55	8.64	310.91	19.70	709.16	12.92	465.09	11.15	401.46	8.81	317.08	7.63	274.62	8.54	307.39
South	U51-U52	178	3.20	115.15	5.33	191.92	15.67	564.12	10.31	371.19	8.88	319.64	6.76	243.33	5.62	202.47	6.04	217.31
South	U52-U53	179	1.60	57.66	2.67	96.09	8.08	290.83	5.31	191.09	4.56	164.34	3.45	124.11	2.92	105.09	3.09	111.15
South	U53-U54	180	1.21	43.72	2.02	72.87	6.32	227.47	4.15	149.30	3.57	128.37	2.69	96.85	2.20	79.10	2.41	86.69
South	U54-U55	181	1.28	46.03	2.13	76.71	6.90	248.45	4.53	162.96	3.89	139.98	2.95	106.21	2.36	84.78	2.55	91.95
South	U55-U56	182	1.19	42.66	1.98	71.10	6.64	238.89	4.36	156.83	3.74	134.68	2.84	102.08	2.30	82.77	2.44	87.96
South	U56-U57	183	1.19	42.66	1.98	71.10	6.64	238.88	4.36	156.82	3.74	134.68	2.84	102.07	2.30	82.77	2.44	87.95
South	U57-U58	184	0.72	26.09	1.21	43.48	3.98	143.25	2.61	93.99	2.24	80.72	1.69	60.89	1.34	48.13	1.45	52.11
South	U58-U59	185	1.57	56.38	2.61	93.97	8.29	298.57	5.45	196.20	4.68	168.54	3.54	127.28	2.82	101.66	3.10	111.58
South	U59-U60	186	2.18	78.43	3.63	130.72	10.96	394.68	7.21	259.46	6.20	223.19	4.72	170.08	3.93	141.43	4.16	149.67
South	U60-U61	187	3.11	111.95	5.18	186.58	11.94	429.85	7.83	281.80	6.73	242.35	5.16	185.84	4.30	154.65	5.00	179.96
South	U61-U62	188	2.65	95.23	4.41	158.72	11.55	415.83	7.57	272.45	6.51	234.40	4.99	179.77	4.09	147.12	4.82	173.49
South	U62-U63	189	4.39	158.07	7.32	263.45	19.82	713.61	13.01	468.29	11.19	403.02	8.72	313.93	6.84	246.10	7.85	282.61
South	U63-U64	190	5.50	197.90	9.16	329.84	23.54	847.29	15.43	555.47	13.27	477.57	10.44	375.83	7.73	278.39	9.07	326.50
South	U64-U65	191	15.59	561.11	25.98	935.19	58.93	2121.37	38.70	1393.14	33.32	1199.62	26.11	939.89	18.29	658.50	21.98	791.42
South	U65-U66	192	2.91	104.82	4.85	174.70	10.99	395.67	7.24	260.70	6.26	225.19	5.18	186.53	4.21	151.64	4.96	178.41
South	U66-U67	193	1.23	44.43	2.06	74.06	4.63	166.55	3.03	109.21	2.63	94.67	2.16	77.89	1.89	67.99	2.23	80.15
South	U67-U68	194	1.38	49.73	2.30	82.88	5.15	185.25	3.38	121.70	2.92	105.24	2.51	90.50	2.24	80.60	2.53	91.14
South	U68-U69	195	1.38	49.73	2.30	82.89	5.15	185.26	3.38	121.70	2.92	105.24	2.51	90.50	2.24	80.60	2.53	91.14
South	U69-U70	196	1.61	57.91	2.68	96.51	6.01	216.37	3.93	141.63	3.41	122.68	2.82	101.54	2.47	88.89	2.86	103.02
South	U70-U71	197	3.14	113.14	5.24	188.57	11.78	424.09	7.82	281.45	6.75	243.05	5.58	200.71	4.69	168.72	5.55	199.86
South	U71-U72	198	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U72-U73	199	5.55	199.76	9.25	332.94	21.08	758.76	13.93	501.66	12.06	434.03	9.54	343.52	7.89	284.21	9.01	324.25
South	U73-U74	200	4.42	158.98	7.36	264.97	17.92	644.99	11.78	424.09	10.14	364.93	7.90	284.48	6.69	240.75	7.41	266.70
South	U74-U75	201	2.64	95.20	4.41	158.66	10.13	364.60	6.63	238.65	5.71	205.40	4.38	157.53	3.84	138.06	4.20	151.25
South	U75-U76	202	3.88	139.72	6.47	232.87	16.60	597.50	10.86	391.13	9.35	336.57	7.16	257.91	6.24	224.57	6.85	246.62
South	U76-U77	203	1.70	61.08	2.83	101.79	10.27	369.61	6.71	241.60	5.75	207.17	4.20	151.35	3.11	111.80	3.31	119.07
South	U77-U78	204	1.36	49.05	2.27	81.75	8.45	304.16	5.52	198.72	4.74	170.50	3.45	124.22	2.50	90.04	2.71	97.53
South	U78-U79	205	1.34	48.15	2.23	80.25	8.49	305.72	5.55	199.84	4.76	171.38	3.47	124.78	2.49	89.57	2.72	97.97
South	U79-U80	206	1.22	44.06	2.04	73.44	7.94	285.90	5.20	187.07	4.45	160.30	3.25	117.15	2.32	83.68	2.51	90.44
South	U80-U81	207	1.39	49.94	2.31	83.24	9.22	331.92	6.04	217.27	5.17	186.05	3.79	136.57	2.68	96.32	2.90	104.40
South	U81-U82	208	1.34	48.10	2.23	80.16	9.09	327.09	5.94	213.91	5.09	183.38	3.74	134.71	2.62	94.19	2.85	102.68
South	U82-U83	209	1.34	48.10	2.23	80.16	9.09	327.09	5.94	213.91	5.09	183.38	3.74	134.71	2.62	94.19	2.85	102.68
South	U83-U84	210	1.46	52.65	2.44	87.75	9.79	352.47	6.40	230.48	5.49	197.67	4.02	144.57	2.82	101.46	3.06	110.17
South	U84-U85	211	1.57	56.61	2.62	94.35	10.30	370.64	6.73	242.40	5.77	207.74	4.21	151.71	2.99	107.56	3.24	116.61
South	U85-U86	212	2.25	80.91	3.75	134.85	11.71	421.53	7.67	276.01	6.57	236.50	4.84	174.10	4.14	148.89	4.40	158.45
South	U86-U87	213	2.61	93.82	4.34	156.37	10.13	364.52	6.63	238.66	5.68	204.51	4.18	150.54	3.57	128.66	3.80	136.90
South	U87-U88	214	2.37	85.24	3.95	142.07	10.00	359.89	6.54	235.60	5.61	201.90	4.13	148.60	3.53	126.91	3.75	135.00
South	U88-U89	215	1.99	71.60	3.31	119.34	9.82	353.55	6.43	231.41	5.51	198.34	4.05	145.96	3.22	115.95	3.51	126.52
South	U89-U90	216	2.10	75.72	3.51	126.19	12.02	432.55	7.86	283.11	6.74	242.64	4.96	178.45	3.67	132.03	4.04	145.32
South	U90-U91	217	1.87	67.46	3.12	112.43	11.30	406.71	7.39	265.98	6.34	228.24	4.67	168.04	3.27	117.57	3.64	131.21
South	U91-U92	218	1.85	66.76	3.09	111.27	10.46	376.69	6.84	246.19	5.88	211.54	4.35	156.43	3.18	114.56	3.55	127.74
South	U92-U93	219	1.83	65.72	3.04	109.53	9.59	345.30	6.28	226.01	5.39	194.03	4.02	144.77	3.07	110.41	3.44	123.94
South	U93-U94	220	1.80	64.75	3.00	107.92	8.74	314.50	5.73	206.39	4.92	177.15	3.73	134.20	2.87	103.25	3.23	116.40
South	U94-U95	221	2.33	83.91	3.88	139.85	10.43	375.65	6.90	248.45	5.90	212.28	4.48	161.43	3.50	126.10	3.89	139.90
South	U95-U96	222	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
South	U96-U97	223	1.93	69.64	3.22	116.07	7.93	285.65	5.25	188.88	4.50	161.87	3.49	125.75	2.83	101.71	3.13	112.73
South	U97-U98	224	1.42	51.26	2.37	85.44	5.89	211.90	3.86	138.99	3.32	119.67	2.59	93.37	2.16	77.80	2.39	86.06
South	U98-U99	225	1.21	43.56	2.02	72.60	5.03	181.12	3.30	118.64	2.84	102.33	2.22	80.03	1.88	67.86	2.05	73.65
South	U99-U100	226	1.21	43.48	2.01	72.46	5.03	181.19	3.30	118.90	2.84	102.35	2.28	82.13	1.89	68.18	2.14	77.21
South	U100-U101	227	1.21	43.47	2.01	72.45	5.03	181.16	3.30	118.87	2.84	102.34	2.28	82.12	1.89	68.17	2.14	77.21
South	U101-U102	228	1.18	42.62	1.97	71.03	4.93	177.41	3.23	116.21	2.78	100.17	2.19	78.75	1.84	66.30	2.02	72.86
South	U102-U103	229	1.20	43.02	1.99	71.71	4.94	177.83	3.24	116.68	2.79	100.56	2.18	78.47	1.83	65.96	2.01	72.37
South	U103-U104	230	1.43	51.36	2.38	85.60	5.79	208.38	3.83	137.83	3.30	118.68	2.59	93.08	2.12	76.46	2.33	83.84
South	U104-U105	231	11.39	410.10	18.99	683.50	45.65	1643.30	29.94	1077.99	25.73	926.23	19.64	707.11	15.65	563.43	17.80	640.72
South	U105-U106	232	2.44	87.81	4.07	146.35	10.36	372.86	6.79	244.37	5.83	209.76	4.35	156.54	3.55	127.81	3.97	143.00
South	U106-U107	233	2.10	75.75	3.51	126.26	9.93	357.35	6.52	234.85	5.61	201.80	4.17	150.22	3.36	121.10	3.78	135.97
South	U107-U108	234	2.07	74.48	3.45	124.14	10.62	382.28	6.98	251.12	5.98	215.18	4.44	159.74	3.53	127.00	3.90	140.34
South	U108-U109	235	2.06	74.02	3.43	123.36	11.36	409.09	7.45	268.05	6.38	229.75	4.71	169.55	3.61	129.86	3.95	142.21
South	U109-U110	236	2.17	78.23	3.62	130.38	12.82	461.63	8.39	302.02	7.19	258.87	5.28	190.09	3.87	139.38	4.25	152.94
South	U110-U111	237	2.53	91.00	4.21	151.66	13.90	500.43	9.09	327.31	7.79	280.52	5.72	205.77	4.25	152.86	4.60	165.68
South	U111-U112	238	2.66	95.69	4.43	159.48	12.59	453.34	8.24	296.48	7.06	254.14	5.19	186.68	4.07	146.70	4.43	159.39
South	U112-U113	239	3.09	111.15	5.15	185.25	12.44	447.74	8.13	292.85	6.97	251.06	5.13	184.51	4.35	156.57	4.64	166.92
South	U113-U114	240	2.94	105.86	4.90	176.44	11.43	411.51	7.48	269.14	6.41	230.74	4.71	169.62	4.00	143.99	4.26	153.51
South	U114-U115	241	1.84	66.25	3.07	110.42	11.98	431.33	7.85	282.61	6.73	242.12	4.88	175.84	3.45	124.21	3.74	134.62
South	U115-U116	242	1.35	48.52	2.25	80.86	9.01	324.41	5.91	212.61	5.06	182.03	3.68	132.33	2.59	93.12	2.78	100.03
South	U116-U117	243	1.21	43.62	2.02	72.70	9.15	329.51	5.99	215.82	5.13	184.75	3.74	134.64	2.61	93.91	2.82	101.37
South	U117-U118	244	1.08	38.82	1.80	64.69	8.23	296.11	5.38	193.84	4.61	166.04	3.36	121.09	2.36	84.88	2.54	91.56
South	U118-U119	245	1.08	38.81	1.80	64.69	8.22	295.80	5.38	193.63	4.61	165.86	3.36	120.97	2.36	84.79	2.54	91.46
South	U119-U120	246	1.06	38.28	1.77	63.79	7.94	285.98	5.20	187.13	4.45	160.37	3.25	117.02	2.30	82.82	2.47	88.98

Truss	Member	Rating ID	As-Inspected Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
South	U120-U121	247	1.11	39.95	1.85	66.58	8.06	290.23	5.28	189.91	4.52	162.73	3.30	118.72	2.36	84.94	2.54	91.47
South	U121-U122	248	1.19	42.86	1.98	71.44	8.37	301.46	5.48	197.24	4.70	169.05	3.43	123.43	2.46	88.70	2.69	96.88
South	U122-U123	249	1.19	42.98	1.99	71.63	8.06	290.12	5.28	189.98	4.53	162.95	3.32	119.62	2.43	87.36	2.61	93.88
South	U123-U124	250	1.32	47.60	2.20	79.34	8.51	306.42	5.59	201.22	4.80	172.63	3.55	127.81	2.63	94.84	2.80	100.67
South	U124-U125	251	1.89	68.18	3.16	113.63	11.49	413.75	7.57	272.41	6.51	234.24	4.90	176.39	3.54	127.57	3.86	139.11
South	U125-U126	252	6.37	229.17	10.61	381.95	36.49	1313.80	24.03	865.16	20.75	747.05	15.73	566.34	11.24	404.47	12.45	448.16
North	L0-L1	253	3.73	134.42	6.22	224.04	18.97	682.94	12.41	446.93	10.61	381.84	7.49	269.79	5.73	206.28	7.27	261.77
North	L1-L2	254	3.10	111.62	5.17	186.04	11.36	408.98	7.62	274.41	6.58	236.76	5.36	193.13	4.25	152.95	5.42	195.22
North	L2-L3	255	1.96	70.64	3.27	117.74	7.22	260.09	4.82	173.51	4.17	150.04	3.40	122.34	2.83	101.89	3.36	121.08
North	L3-L4	256	1.95	70.36	3.26	117.27	7.21	259.72	4.78	171.98	4.15	149.46	3.40	122.50	2.89	104.20	3.31	119.24
North	L4-L5	257	1.92	69.10	3.20	115.17	7.14	256.88	4.76	171.35	4.10	147.49	3.35	120.77	2.89	103.94	3.30	118.65
North	L5-L6	258	1.96	70.54	3.27	117.56	7.40	266.58	4.91	176.80	4.26	153.43	3.43	123.49	2.85	102.73	3.32	119.43
North	L6-L7	259	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L7-L8	260	1.95	70.37	3.26	117.28	7.81	281.19	5.17	186.04	4.47	161.03	3.51	126.27	3.00	107.97	3.26	117.19
North	L8-L9	261	1.33	47.78	2.21	79.64	5.79	208.52	3.83	137.99	3.32	119.48	2.58	92.74	2.12	76.46	2.37	85.39
North	L9-L10	262	1.41	50.65	2.34	84.41	6.81	245.24	4.51	162.28	3.88	139.85	2.96	106.59	2.38	85.69	2.64	94.88
North	L10-L11	263	1.43	51.53	2.39	85.88	6.93	249.52	4.59	165.11	3.95	142.28	3.01	108.44	2.42	87.18	2.68	96.53
North	L11-L12	264	1.68	60.48	2.80	100.79	6.47	232.95	4.28	154.08	3.69	132.82	2.80	100.85	2.46	88.52	2.77	99.77
North	L12-L13	265	1.58	56.99	2.64	94.99	6.04	217.52	4.00	143.84	3.44	124.01	2.61	93.94	2.28	82.20	2.87	103.43
North	L13-L14	266	2.04	73.41	3.40	122.35	7.78	280.08	5.15	185.34	4.44	159.83	3.36	121.09	2.94	105.82	4.03	145.17
North	L14-L15	267	2.40	86.33	4.00	143.89	9.79	352.57	6.48	233.40	5.59	201.40	4.28	153.91	3.74	134.72	4.39	157.96
North	L15-L16	268	2.39	86.19	3.99	143.65	10.71	385.70	7.08	255.02	6.09	219.40	4.70	169.21	3.88	139.51	4.20	151.20
North	L16-L17	269	2.18	78.52	3.64	130.87	8.17	294.04	5.42	195.27	4.68	168.30	3.67	132.25	3.35	120.49	3.71	133.43
North	L17-L18	270	1.58	56.82	2.63	94.70	5.91	212.77	3.92	141.29	3.38	121.78	2.66	95.69	2.24	80.76	2.51	90.39
North	L18-L19	271	1.00	35.86	1.66	59.76	4.66	167.67	3.09	111.35	2.67	95.97	2.08	74.97	1.52	54.69	1.67	60.24
North	L19-L20	272	0.83	30.05	1.39	50.09	5.27	189.59	3.48	125.13	2.98	107.45	2.25	80.98	1.57	56.52	1.75	62.82
North	L20-L21	273	1.18	42.45	1.97	70.75	4.71	169.65	3.13	112.64	2.70	97.09	2.12	76.15	1.82	65.64	2.00	71.88
North	L21-L22	274	1.38	49.78	2.30	82.97	5.12	184.31	3.44	123.67	2.95	106.13	2.35	84.65	2.03	73.19	2.35	84.53
North	L22-L23	275	1.96	70.45	3.26	117.42	7.21	259.54	4.84	174.06	4.24	152.59	3.43	123.43	2.91	104.61	3.38	121.79
North	L23-L24	276	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L24-L25	277	2.50	89.98	4.17	149.97	8.91	320.78	6.04	217.54	5.28	189.95	4.60	165.68	3.98	143.39	4.60	165.60
North	L25-L26	278	1.65	59.32	2.75	98.86	5.93	213.54	4.00	143.90	3.46	124.55	3.09	111.21	2.73	98.38	3.09	111.28
North	L26-L27	279	3.05	109.81	5.08	183.01	11.22	403.87	7.50	269.92	6.57	236.34	5.82	209.58	4.96	178.70	5.87	211.26
North	L27-L28	280	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L28-L29	281	2.50	90.15	4.17	150.24	9.37	337.39	6.23	224.38	5.42	195.27	4.52	162.64	3.84	138.13	4.55	163.80
North	L29-L30	282	1.92	69.09	3.20	115.15	7.29	262.61	4.85	174.66	4.22	152.06	3.41	122.76	2.88	103.71	3.43	123.50
North	L30-L31	283	2.08	74.96	3.47	124.93	7.91	284.91	5.26	189.49	4.58	164.97	3.70	133.18	3.13	112.52	3.72	133.99
North	L31-L32	284	2.05	73.77	3.42	122.96	7.68	276.41	5.11	183.79	4.44	159.94	3.57	128.40	3.12	112.34	3.56	127.99
North	L32-L33	285	2.19	78.96	3.66	131.60	9.27	333.79	6.19	222.73	5.31	191.32	4.12	148.18	3.49	125.60	3.77	135.54
North	L33-L34	286	1.62	58.19	2.69	96.98	7.26	261.35	4.81	173.06	4.14	149.07	3.18	114.55	2.70	97.21	2.88	103.80
North	L34-L35	287	1.95	70.26	3.25	117.09	9.17	330.14	6.05	217.62	5.22	187.92	4.02	144.62	3.34	120.41	3.62	130.44
North	L35-L36	288	2.10	75.47	3.49	125.78	9.40	338.42	6.22	224.03	5.35	192.64	4.12	148.37	3.40	122.41	3.68	132.60
North	L36-L37	289	1.45	52.09	2.41	86.82	6.25	225.14	4.13	148.84	3.55	127.89	2.71	97.54	2.24	80.68	2.42	87.02
North	L37-L38	290	2.65	95.47	4.42	159.12	11.16	401.75	7.37	265.50	6.35	228.61	4.89	176.15	4.04	145.55	4.44	159.91
North	L38-L39	291	1.64	59.20	2.74	98.67	9.09	327.17	6.05	217.63	5.20	187.04	3.97	143.04	2.78	100.00	3.05	109.87
North	L39-L40	292	1.03	37.11	1.72	61.85	7.45	268.27	4.92	177.07	4.21	151.66	3.11	111.95	2.09	75.17	2.35	84.47
North	L40-L41	293	1.92	69.26	3.21	115.44	7.65	275.54	5.10	183.78	4.39	158.12	3.40	122.46	2.87	103.36	3.19	114.89
North	L41-L42	294	3.23	116.44	5.39	194.06	12.13	436.71	8.09	291.10	7.05	253.94	5.49	197.80	4.55	163.84	5.27	189.69
North	L42-L43	295	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L43-L44	296	3.50	126.15	5.84	210.26	12.80	460.64	8.61	309.90	7.52	270.85	6.21	223.44	5.29	190.29	6.07	218.48
North	L44-L45	297	1.62	58.44	2.71	97.40	5.92	213.08	3.97	143.04	3.43	123.43	2.87	103.33	2.52	90.66	2.85	102.73
North	L45-L46	298	1.68	60.61	2.81	101.02	6.21	223.63	4.15	149.23	3.61	129.90	2.99	107.73	2.62	94.36	2.97	107.07
North	L46-L47	299	3.27	117.76	5.45	196.26	12.28	442.24	8.15	293.55	7.09	255.27	5.86	210.94	4.94	177.70	5.70	205.20
North	L47-L48	300	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L48-L49	301	3.63	130.50	6.04	217.51	13.84	498.20	9.15	329.35	7.91	284.85	6.20	223.20	5.06	182.26	5.83	209.73
North	L49-L50	302	1.82	65.59	3.04	109.32	8.16	293.59	5.39	193.92	4.63	166.57	3.57	128.40	2.82	101.41	3.12	112.18
North	L50-L51	303	1.78	64.04	2.96	106.73	7.73	278.27	5.11	183.80	4.39	157.88	3.38	121.70	2.67	96.11	2.95	106.32
North	L51-L52	304	2.75	99.17	4.59	165.29	10.53	379.08	6.95	250.03	5.97	214.87	4.60	165.44	3.93	141.65	4.39	157.93
North	L52-L53	305	2.05	73.68	3.41	122.80	9.58	344.93	6.30	226.95	5.41	194.83	4.07	146.58	3.28	118.21	3.54	127.58
North	L53-L54	306	1.70	61.12	2.83	101.86	8.38	301.83	5.51	198.28	4.73	170.31	3.53	127.15	2.90	104.56	3.05	109.87
North	L54-L55	307	1.72	61.93	2.87	103.22	8.76	315.19	5.74	206.81	4.93	177.65	3.69	132.96	2.94	105.92	3.22	115.93
North	L55-L56	308	2.57	92.48	4.28	154.13	13.44	483.89	8.81	317.32	7.57	272.51	5.70	205.04	4.48	161.23	4.84	174.39
North	L56-L57	309	2.64	95.19	4.41	158.65	13.48	485.33	8.84	318.28	7.59	273.23	5.69	205.02	4.48	161.30	4.82	173.45
North	L57-L58	310	1.68	60.43	2.80	100.71	8.19	294.99	5.38	193.61	4.62	166.25	3.47	124.86	2.74	98.59	2.99	107.66
North	L58-L59	311	1.77	63.78	2.95	106.30	8.29	298.59	5.44	195.93	4.66	167.93	3.46	124.47	2.78	100.23	2.96	106.59
North	L59-L60	312	1.99	71.66	3.32	119.43	7.62	274.46	5.00	179.86	4.30	154.97	3.30	118.97	2.65	95.39	2.96	106.39
North	L60-L61	313	1.28	46.08	2.13	76.79	6.39	229.96	4.19	150.69	3.61	129.84	2.74	98.64	1.86	66.85	2.09	75.18
North	L61-L62	314	0.66	23.85	1.10	39.74	4.46	160.55	2.92	104.98	2.50	90.11	1.84	66.39	1.20	43.09	1.33	47.81
North	L62-L63	315	1.34	48.16	2.23	80.27	5.78	208.05	3.78	136.11	3.26	117.34	2.50	89.90	2.10	75.48	2.26	81.31
North	L63-L64	316	1.33	47.73	2.21	79.54	5.20	187.28	3.41	122.93	2.94	105.88	2.29	82.27	1.93	69.37	2.13	76.62
North	L64-L65	317	3.47	125.02	5.79	208.37	13.26	477.36	8.78	315.93	7.54	271.33	5.93	213.49	4.89	176.10	5.70	205.21
North	L65-L66	318	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L66-L67	319	3.20	115.06	5.33	191.77	12.01	432.49	7.95	286.29	6.87	247.37	5.73	206.29	4.82	173.39	5.60	201.61
North	L67-L68	320	1.68	60.39	2.80	100.64	6.28	226.21	4.12	148.20	3.57	128.63	2.97	106.89	2.62	94.21	2.96	106.57
North	L68-L69	321	1.74	62.60	2.90	104.34	6.49	233.50	4.25	152.99	3.68	132.53	3.06	110.24	2.70	97.13	3.05	109.96
North	L69-L70	322	3.56	128.19	5.93	213.66	13.32	479.60	8.85	318.64	7.63	274.66	6.33	227.85	5.30	190.66	6.15	221.48
North	L70-L71	323	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L71-L72	324	3.44	123.83	5.73	206.39	13.13	472.77	8.69	312.86	7.50	270.17	5.95	214.38	4.81	173.23	5.56	200.15
North	L72-L73	325	2.45	88.13	4.08	146.88	10.30	370.66	6.76	243.24	5.82	209.59	4.55	163.69	3.75	134.96	4.19	150.95
North	L73-L74	326	1.51	54.30	2.51	90.49	7.29	262.42	4.77	171.78	4.11	147.95	3.16	113.85	2.52	90.84	2.72	97.94
North	L74-L75	327	1.57	56.42	2.61	94.03	7.57	272.61	4.96	178.45	4.27	153.70	3.29	118.28	2.62	94.39	2.83	101.76
North	L75-L76	328	1.99	71.60	3.31	119.34	7.62	274.18	4.99	179.48	4.29	154.50	3.29	118.40	2.88	103.76	3.16	113.89

Truss	Member	Rating ID	As-Inspected Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
North	L76-L77	329	2.52	90.75	4.20	151.25	9.66	347.71	6.32	227.60	5.44	195.91	4.16	149.85	3.59	129.33	3.97	142.92
North	L77-L78	330	1.74	62.68	2.90	104.47	10.74	386.59	7.03	253.08	6.03	217.17	4.42	159.06	3.30	118.91	3.51	126.43
North	L78-L79	331	1.66	59.92	2.77	99.87	10.69	384.84	6.99	251.75	6.00	215.87	4.38	157.83	3.20	115.08	3.47	124.78
North	L79-L80	332	1.45	52.04	2.41	86.73	9.61	345.98	6.29	226.34	5.39	193.97	3.93	141.57	2.83	101.75	3.08	110.94
North	L80-L81	333	1.58	56.96	2.64	94.94	10.74	386.56	7.03	252.93	6.02	216.70	4.41	158.60	3.15	113.33	3.40	122.33
North	L81-L82	334	1.63	58.81	2.72	98.01	11.29	406.33	7.38	265.73	6.33	227.74	4.64	167.07	3.27	117.69	3.55	127.82
North	L82-L83	335	1.90	68.44	3.17	114.06	12.82	461.55	8.39	302.06	7.20	259.05	5.26	189.44	3.69	132.90	4.01	144.49
North	L83-L84	336	1.82	65.64	3.04	109.40	12.06	434.18	7.89	284.21	6.77	243.77	4.95	178.28	3.50	125.94	3.80	136.88
North	L84-L85	337	2.43	87.31	4.04	145.51	9.42	339.12	6.17	222.07	5.29	190.28	3.89	140.16	3.33	120.06	3.56	128.06
North	L85-L86	338	2.13	76.78	3.55	127.96	8.44	303.69	5.52	198.87	4.73	170.41	3.49	125.52	2.88	103.50	3.07	110.67
North	L86-L87	339	1.63	58.75	2.72	97.92	7.95	286.26	5.21	187.45	4.46	160.62	3.29	118.32	2.38	85.83	2.60	93.60
North	L87-L88	340	1.33	47.74	2.21	79.56	7.93	285.57	5.19	187.00	4.45	160.23	3.28	118.03	2.14	77.20	2.37	85.41
North	L88-L89	341	1.30	46.83	2.17	78.04	9.70	349.24	6.35	228.68	5.44	195.96	4.01	144.34	2.40	86.38	2.66	95.62
North	L89-L90	342	1.32	47.55	2.20	79.26	11.76	423.22	7.69	276.75	6.58	237.05	4.76	171.28	2.70	97.19	3.03	109.07
North	L90-L91	343	2.20	79.22	3.67	132.03	13.90	500.37	9.09	327.37	7.80	280.66	5.75	207.06	4.00	143.86	4.51	162.38
North	L91-L92	344	1.91	68.92	3.19	114.87	11.44	411.96	7.48	269.42	6.42	231.27	4.75	170.88	3.42	123.16	3.83	137.85
North	L92-L93	345	1.25	45.03	2.08	75.05	7.07	254.60	4.62	166.44	3.97	143.04	2.95	106.02	2.21	79.63	2.47	88.99
North	L93-L94	346	1.23	44.44	2.06	74.07	6.54	235.38	4.28	154.16	3.68	132.42	2.75	98.96	2.12	76.28	2.39	86.09
North	L94-L95	347	1.03	37.16	1.72	61.93	5.11	183.79	3.35	120.71	2.88	103.68	2.18	78.60	1.70	61.12	1.92	69.03
North	L95-L96	348	2.21	79.61	3.69	132.68	11.21	403.55	7.42	266.95	6.35	228.45	4.83	173.73	3.80	136.87	4.22	152.07
North	L96-L97	349	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L97-L98	350	2.11	76.07	3.52	126.78	8.48	305.45	5.62	202.35	4.82	173.45	3.75	134.85	3.05	109.92	3.38	121.71
North	L98-L99	351	1.75	63.14	2.92	105.23	6.92	249.22	4.55	163.64	3.92	141.00	3.06	110.27	2.57	92.67	2.86	102.84
North	L99-L100	352	1.79	64.35	2.98	107.24	7.25	261.14	4.75	170.99	4.10	147.48	3.22	115.82	2.74	98.53	3.00	108.14
North	L100-L101	353	1.77	63.83	2.95	106.38	7.23	260.21	4.74	170.57	4.08	147.02	3.21	115.50	2.73	98.37	3.00	107.96
North	L101-L102	354	1.71	61.47	2.85	102.45	6.95	250.05	4.56	164.12	3.93	141.41	3.06	110.31	2.58	92.83	2.87	103.24
North	L102-L103	355	2.00	71.85	3.33	119.75	8.02	288.71	5.30	190.68	4.58	164.75	3.54	127.57	2.89	104.04	3.19	114.94
North	L103-L104	356	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	L104-L105	357	2.57	92.67	4.29	154.45	11.30	406.90	7.45	268.08	6.42	231.16	4.87	175.20	3.80	136.93	4.23	152.30
North	L105-L106	358	2.55	91.63	4.24	152.71	12.13	436.65	7.98	287.20	6.84	246.30	5.17	186.04	3.99	143.79	4.51	162.53
North	L106-L107	359	2.65	95.36	4.41	158.94	13.64	491.08	8.93	321.37	7.67	276.11	5.72	205.97	4.39	158.21	4.92	177.28
North	L107-L108	360	2.55	91.86	4.25	153.11	14.04	505.31	9.18	330.30	7.88	283.60	5.84	210.26	4.36	156.91	4.86	174.98
North	L108-L109	361	2.48	89.33	4.14	148.88	14.44	519.79	9.45	340.24	8.11	291.93	6.00	215.86	4.30	154.83	4.79	172.29
North	L109-L110	362	2.56	92.19	4.27	153.65	15.82	569.44	10.35	372.75	8.89	319.94	6.56	236.26	4.54	163.47	5.08	182.81
North	L110-L111	363	2.21	79.39	3.68	132.32	20.35	732.60	13.30	478.85	11.39	409.89	8.15	293.44	4.66	167.60	5.20	187.05
North	L111-L112	364	1.84	66.15	3.06	110.26	14.50	521.87	9.49	341.55	8.13	292.68	5.91	212.72	3.52	126.62	3.90	140.33
North	L112-L113	365	2.11	75.85	3.51	126.41	13.35	480.73	8.73	314.41	7.49	269.60	5.51	198.52	3.55	127.73	3.92	141.10
North	L113-L114	366	2.47	89.10	4.12	148.49	12.58	452.83	8.23	296.17	7.05	253.96	5.19	187.01	3.74	134.49	4.08	146.86
North	L114-L115	367	3.37	121.16	5.61	201.93	13.66	491.92	8.94	321.73	7.66	275.89	5.64	203.16	4.64	167.19	4.96	178.43
North	L115-L116	368	3.13	112.84	5.22	188.06	14.19	510.80	9.28	334.07	7.96	286.47	5.86	210.94	4.98	179.35	5.31	191.32
North	L116-L117	369	2.19	78.83	3.65	131.38	12.57	452.64	8.24	296.61	7.07	254.59	5.21	187.43	3.71	133.52	4.06	146.19
North	L117-L118	370	1.98	71.12	3.29	118.53	11.71	421.55	7.67	276.09	6.58	236.88	4.85	174.53	3.44	123.99	3.77	135.64
North	L118-L119	371	1.84	66.11	3.06	110.18	11.16	401.92	7.32	263.36	6.27	225.89	4.62	166.46	3.30	118.70	3.61	129.80
North	L119-L120	372	1.93	69.49	3.22	115.82	11.56	416.29	7.57	272.61	6.49	233.76	4.77	171.65	3.44	123.85	3.73	134.43
North	L120-L121	373	2.11	75.90	3.51	126.50	12.44	447.90	8.15	293.29	6.98	251.25	5.09	183.26	3.69	132.86	4.01	144.24
North	L121-L122	374	2.22	79.81	3.69	133.02	12.75	458.83	8.35	300.55	7.15	257.47	5.21	187.56	3.81	137.26	4.18	150.62
North	L122-L123	375	2.19	78.87	3.65	131.44	12.23	440.43	8.02	288.68	6.87	247.29	4.99	179.72	3.74	134.81	4.05	145.91
North	L123-L124	376	2.41	86.71	4.01	144.52	12.84	462.36	8.42	303.27	7.22	260.10	5.27	189.83	3.92	140.95	4.27	153.79
North	L124-L125	377	6.31	227.11	10.51	378.52	30.39	1094.16	19.96	718.68	17.16	617.66	12.70	457.13	9.55	343.79	10.58	380.91
North	L125-L126	378	22.40	806.44	37.34	1344.07	174.84	6294.15	114.18	4110.65	97.42	3507.15	67.94	2445.99	41.44	1491.78	45.86	1650.81
North	U0-U1	379	3.08	111.01	5.14	185.01	11.43	411.34	7.65	275.37	6.69	240.74	5.32	191.39	4.52	162.80	5.16	185.67
North	U1-U2	380	1.48	53.18	2.46	88.63	5.45	196.20	3.66	131.72	3.14	113.17	2.54	91.41	2.22	79.87	2.50	89.84
North	U2-U3	381	1.76	63.50	2.94	105.84	6.52	234.56	4.32	155.50	3.75	135.01	3.06	110.18	2.71	97.63	2.99	107.79
North	U3-U4	382	1.33	47.77	2.21	79.61	4.93	177.58	3.29	118.41	2.83	101.95	2.32	83.56	2.05	73.84	2.30	82.70
North	U4-U5	383	1.39	50.09	2.32	83.48	5.20	187.31	3.46	124.60	3.01	108.48	2.43	87.63	2.10	75.49	2.43	87.42
North	U5-U6	384	1.29	46.56	2.16	77.60	4.84	174.12	3.22	115.83	2.80	100.84	2.26	81.47	1.95	70.18	2.26	81.27
North	U6-U7	385	1.92	69.07	3.20	115.11	7.26	261.26	4.81	173.21	4.17	150.30	3.35	120.58	2.80	100.80	3.24	116.73
North	U7-U8	386	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U8-U9	387	2.44	87.77	4.06	146.28	9.79	352.41	6.48	233.12	5.60	201.74	4.37	157.43	3.62	130.41	3.95	142.27
North	U9-U10	388	2.10	75.43	3.49	125.71	9.26	333.27	6.12	220.42	5.30	190.73	4.10	147.43	3.30	118.66	3.62	130.23
North	U10-U11	389	2.25	80.92	3.75	134.86	8.69	312.87	5.75	206.87	4.97	178.86	3.77	135.64	3.30	118.68	3.73	134.42
North	U11-U12	390	2.08	74.98	3.47	124.96	7.94	285.98	5.25	189.13	4.54	163.48	3.45	124.16	3.03	109.10	3.86	138.99
North	U12-U13	391	2.62	94.24	4.36	157.07	9.98	359.20	6.60	237.61	5.70	205.34	4.34	156.15	3.82	137.61	5.28	189.91
North	U13-U14	392	1.93	69.60	3.22	115.99	9.39	337.96	6.19	222.82	5.35	192.45	4.11	148.10	3.43	123.47	3.71	133.41
North	U14-U15	393	1.59	57.32	2.65	95.54	8.06	290.12	5.31	191.32	4.58	164.76	3.54	127.52	2.89	104.19	3.20	115.26
North	U15-U16	394	1.59	57.32	2.65	95.54	8.06	290.11	5.31	191.31	4.58	164.76	3.54	127.51	2.89	104.19	3.20	115.26
North	U16-U17	395	1.76	63.54	2.94	105.90	8.45	304.17	5.60	201.52	4.81	173.11	3.69	132.82	3.05	109.63	3.30	118.80
North	U17-U18	396	2.30	82.63	3.83	137.72	9.03	325.23	6.00	215.97	5.17	186.11	4.06	146.11	3.62	130.45	4.02	144.71
North	U18-U19	397	2.10	75.51	3.50	125.85	7.86	282.99	5.22	187.92	4.50	161.93	3.53	127.09	3.13	112.80	3.55	127.87
North	U19-U20	398	2.20	79.17	3.67	131.96	8.24	296.77	5.47	197.08	4.72	169.80	3.70	133.23	3.26	117.41	3.72	133.95
North	U20-U21	399	2.07	74.63	3.45	124.38	8.06	290.15	5.39	193.86	4.64	167.14	3.71	133.52	3.02	108.89	3.61	130.06
North	U21-U22	400	3.52	126.55	5.86	210.92	13.06	470.14	8.73	314.22	7.58	272.95	6.16	221.93	4.90	176.53	6.11	219.99
North	U22-U23	401	8.90	320.25	14.83	533.74	33.15	1193.46	21.95	790.16	19.00	684.01	14.99	539.70	11.81	425.11	15.99	575.56
North	U23-U24	402	1.34	48.25	2.23	80.42	4.78	172.24	3.24	116.78	2.81	101.25	2.41	86.59	2.11	75.95	2.49	89.51
North	U24-U25	403	1.30	46.63	2.16	77.72	4.66	167.64	3.11	111.98	2.71	97.64	2.38	85.58	2.17	78.13	2.41	86.90
North	U25-U26	404	1.30	46.64	2.16	77.73	4.66	167.66	3.11	111.99	2.71	97.65	2.38	85.60	2.17	78.14	2.41	86.92
North	U26-U27	405	1.49	53.57	2.48	89.28	5.37	193.33	3.61	130.13	3.13	112.66	2.75	99.14	2.47	88.76	2.78	100.08
North	U27-U28	406	2.99	107.68	4.98	179.46	11.03	396.97	7.36	265.14	6.44	232.01	5.66	203.91	4.82	173.65	5.69	204.77
North	U28-U29	407	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U29-U30	408	5.35	192.59	8.92	320.99	20.10	723.77	13.35	480.71	11.61	417.97	9.56	344.08	8.01	288.27	9.46	340.61
North	U30-U31	409	3.50	126.10	5.84	210.17	13.15	473.33	8.74	314.51	7.60	273.52	6.09	219.32	5.34	192.07	6.09	219.35
North	U31-U32	410	2.05	73.70	3.41	122.83	9.28	334.22	6.19	222.86	5.32	191.41	4.08	146.80	3.44	124.01	3.71	133.52

Truss	Member	Rating ID	As-Inspected Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
North	U32-U33	411	1.19	42.87	1.98	71.45	5.59	201.27	3.71	133.42	3.19	114.76	2.44	87.93	2.08	74.75	2.21	79.59
North	U33-U34	412	1.14	40.92	1.89	68.20	5.53	199.24	3.65	131.38	3.15	113.48	2.42	87.15	2.02	72.72	2.18	78.65
North	U34-U35	413	1.11	40.10	1.86	66.83	5.63	202.71	3.71	133.66	3.20	115.11	2.47	89.09	2.02	72.83	2.23	80.44
North	U35-U36	414	1.11	40.10	1.86	66.83	5.63	202.69	3.71	133.65	3.20	115.10	2.47	89.08	2.02	72.83	2.23	80.43
North	U36-U37	415	1.22	43.84	2.03	73.07	5.82	209.68	3.86	139.03	3.32	119.37	2.54	91.43	2.10	75.50	2.27	81.74
North	U37-U38	416	1.53	55.03	2.55	91.71	6.79	244.56	4.50	162.02	3.87	139.46	2.98	107.11	2.47	89.07	2.66	95.79
North	U38-U39	417	3.74	134.80	6.24	224.67	14.95	538.12	9.92	357.02	8.57	308.49	6.66	239.85	5.53	199.05	6.04	217.41
North	U39-U40	418	5.85	210.67	9.75	351.12	22.13	796.69	14.67	528.27	12.66	455.86	9.78	351.96	8.13	292.55	9.40	338.48
North	U40-U41	419	5.37	193.35	8.95	322.25	24.28	874.25	16.07	578.44	13.84	498.11	10.76	387.20	8.45	304.28	9.92	357.18
North	U41-U42	420	16.51	594.52	27.52	990.86	68.83	2477.76	45.64	1643.12	39.47	1420.93	32.51	1170.26	23.62	850.24	31.97	1150.80
North	U42-U43	421	2.49	89.74	4.15	149.57	9.09	327.26	6.12	220.33	5.32	191.40	4.37	157.35	3.61	130.07	4.32	155.59
North	U43-U44	422	1.40	50.29	2.33	83.81	5.11	183.90	3.42	123.29	2.95	106.37	2.46	88.55	2.14	77.02	2.47	88.77
North	U44-U45	423	1.18	42.60	1.97	71.01	4.36	157.01	2.88	103.76	2.50	90.14	2.16	77.64	1.93	69.62	2.14	76.98
North	U45-U46	424	1.18	42.60	1.97	71.00	4.36	156.99	2.88	103.74	2.50	90.13	2.16	77.63	1.93	69.62	2.14	76.97
North	U46-U47	425	1.36	49.01	2.27	81.69	5.02	180.82	3.35	120.67	2.92	104.99	2.42	86.99	2.11	76.00	2.42	87.00
North	U47-U48	426	2.90	104.32	4.83	173.87	10.89	392.11	7.23	260.19	6.28	226.18	5.19	186.85	4.38	157.54	5.07	182.54
North	U48-U49	427	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U49-U50	428	5.98	215.33	9.97	358.88	22.83	822.00	15.09	543.39	13.05	469.97	10.24	368.65	8.46	304.54	9.71	349.39
North	U50-U51	429	5.50	197.94	9.16	329.90	21.01	756.52	13.87	499.18	11.92	429.00	9.17	330.25	7.96	286.66	8.86	319.13
North	U51-U52	430	2.49	89.80	4.16	149.67	12.38	445.65	8.15	293.24	6.99	251.65	5.21	187.64	4.18	150.37	4.50	161.96
North	U52-U53	431	1.08	38.83	1.80	64.71	5.50	198.18	3.62	130.25	3.10	111.73	2.31	83.15	1.90	68.29	1.99	71.72
North	U53-U54	432	1.16	41.89	1.94	69.82	6.09	219.12	3.99	143.81	3.43	123.50	2.56	92.28	2.04	73.56	2.23	80.44
North	U54-U55	433	1.14	40.90	1.89	68.17	6.11	219.80	4.00	144.11	3.44	123.78	2.59	93.07	2.04	73.27	2.20	79.25
North	U55-U56	434	1.31	47.32	2.19	78.87	7.24	260.53	4.75	170.89	4.07	146.68	3.08	110.79	2.45	88.12	2.61	93.86
North	U56-U57	435	1.25	44.87	2.08	74.78	6.86	247.03	4.50	162.03	3.86	139.08	2.92	105.05	2.32	83.55	2.47	89.00
North	U57-U58	436	1.13	40.50	1.88	67.51	5.99	215.68	3.93	141.50	3.37	121.45	2.52	90.88	1.99	71.62	2.14	76.90
North	U58-U59	437	1.31	47.03	2.18	78.38	6.65	239.36	4.37	157.20	3.75	134.95	2.80	100.74	2.20	79.36	2.41	86.80
North	U59-U60	438	1.46	52.62	2.44	87.70	7.00	251.90	4.60	165.47	3.94	142.02	2.95	106.11	2.38	85.79	2.53	91.15
North	U60-U61	439	2.61	93.99	4.35	156.66	10.01	360.48	6.56	236.27	5.65	203.40	4.33	155.89	3.63	130.68	4.21	151.65
North	U61-U62	440	1.94	69.68	3.23	116.14	7.43	267.37	4.87	175.30	4.19	150.81	3.21	115.59	2.65	95.25	3.12	112.30
North	U62-U63	441	4.09	147.18	6.81	245.30	18.97	682.81	12.49	449.54	10.73	386.29	8.36	300.81	6.59	237.31	7.51	270.46
North	U63-U64	442	4.69	168.76	7.81	281.27	21.76	783.29	14.33	515.85	12.32	443.51	9.63	346.80	7.29	262.31	8.40	302.35
North	U64-U65	443	12.80	460.78	21.33	767.96	62.21	2239.62	40.85	1470.70	35.16	1265.92	27.44	987.69	18.92	681.01	23.49	845.47
North	U65-U66	444	1.98	71.41	3.31	119.02	7.46	268.47	4.92	177.23	4.26	153.22	3.52	126.85	2.86	103.01	3.40	122.57
North	U66-U67	445	1.14	41.05	1.90	68.42	4.28	154.02	2.80	100.89	2.43	87.47	2.00	71.99	1.74	62.75	2.05	73.76
North	U67-U68	446	1.40	50.36	2.33	83.93	5.21	187.56	3.42	123.29	2.96	106.54	2.55	91.69	2.27	81.71	2.57	92.38
North	U68-U69	447	1.40	50.36	2.33	83.94	5.21	187.59	3.43	123.31	2.96	106.55	2.55	91.70	2.27	81.73	2.57	92.39
North	U69-U70	448	1.62	58.23	2.70	97.05	6.04	217.46	3.96	142.48	3.43	123.39	2.84	102.08	2.49	89.62	2.87	103.32
North	U70-U71	449	3.15	113.51	5.25	189.18	11.81	425.13	7.84	282.36	6.76	243.32	5.59	201.11	4.68	168.50	5.42	195.08
North	U71-U72	450	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U72-U73	451	5.56	200.26	9.27	333.77	21.12	760.18	13.97	502.95	12.06	434.24	9.55	343.92	7.91	284.60	9.03	325.08
North	U73-U74	452	4.40	158.29	7.33	263.82	17.97	646.88	11.80	424.70	10.16	365.72	7.91	284.86	6.70	241.05	7.43	267.31
North	U74-U75	453	2.54	91.37	4.23	152.28	9.72	350.05	6.36	229.01	5.48	197.19	4.20	151.19	3.68	132.63	4.06	146.01
North	U75-U76	454	2.82	101.42	4.70	169.04	13.35	480.52	8.73	314.40	7.52	270.69	5.76	207.31	5.01	180.48	5.53	199.00
North	U76-U77	455	1.51	54.30	2.51	90.51	10.16	365.68	6.65	239.49	5.70	205.32	4.16	149.87	3.07	110.56	3.27	117.62
North	U77-U78	456	1.22	43.85	2.03	73.08	8.37	301.15	5.47	197.06	4.69	168.92	3.42	123.01	2.47	89.01	2.68	96.47
North	U78-U79	457	1.20	43.10	2.00	71.84	8.41	302.75	5.50	197.98	4.71	169.69	3.43	123.57	2.45	88.38	2.69	96.80
North	U79-U80	458	1.10	39.72	1.84	66.20	7.88	283.66	5.15	185.51	4.42	158.98	3.23	116.12	2.30	82.78	2.49	89.55
North	U80-U81	459	1.25	45.18	2.09	75.30	9.12	328.23	5.96	214.70	5.11	183.97	3.75	134.89	2.63	94.82	2.86	102.94
North	U81-U82	460	1.22	43.77	2.03	72.94	8.97	322.82	5.87	211.22	5.03	181.00	3.69	132.90	2.57	92.66	2.81	101.11
North	U82-U83	461	1.19	42.75	1.98	71.25	8.76	315.31	5.73	206.31	4.91	176.79	3.61	129.81	2.51	90.51	2.74	98.77
North	U83-U84	462	1.31	47.18	2.18	78.64	9.43	339.64	6.17	222.26	5.29	190.60	3.87	139.26	2.71	97.57	2.94	105.98
North	U84-U85	463	1.46	52.56	2.43	87.60	10.14	365.17	6.64	239.02	5.69	204.92	4.15	149.50	2.93	105.52	3.19	114.68
North	U85-U86	464	2.12	76.47	3.54	127.44	11.68	420.60	7.64	275.09	6.55	235.88	4.82	173.59	4.09	147.33	4.40	158.27
North	U86-U87	465	2.61	94.01	4.35	156.69	10.15	365.36	6.64	238.97	5.69	204.91	4.19	150.79	3.58	128.91	3.82	137.51
North	U87-U88	466	2.35	84.55	3.91	140.92	9.86	354.84	6.45	232.09	5.53	199.01	4.07	146.44	3.47	124.91	3.71	133.59
North	U88-U89	467	1.97	71.04	3.29	118.39	9.69	348.97	6.34	228.25	5.44	195.71	4.00	144.01	3.18	114.54	3.48	125.18
North	U89-U90	468	2.12	76.15	3.53	126.92	12.20	439.17	7.98	287.23	6.84	246.30	5.03	181.10	3.72	133.93	4.11	147.95
North	U90-U91	469	1.87	67.36	3.12	112.27	11.47	412.99	7.50	269.98	6.44	231.68	4.74	170.57	3.31	119.21	3.69	132.95
North	U91-U92	470	1.62	58.31	2.70	97.19	9.33	336.01	6.10	219.76	5.24	188.75	3.88	139.59	2.84	102.16	3.17	113.97
North	U92-U93	471	1.80	64.79	3.00	107.98	9.70	349.07	6.35	228.65	5.45	196.36	4.07	146.51	3.09	111.35	3.48	125.11
North	U93-U94	472	1.75	63.06	2.92	105.10	8.82	317.36	5.79	208.47	4.97	179.02	3.76	135.47	2.89	103.97	3.27	117.85
North	U94-U95	473	2.06	74.20	3.44	123.66	10.52	378.78	6.96	250.49	5.96	214.39	4.52	162.71	3.53	127.25	3.93	141.31
North	U95-U96	474	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
North	U96-U97	475	2.01	72.33	3.35	120.55	8.14	293.11	5.39	194.19	4.62	166.38	3.58	128.97	2.90	104.46	3.20	115.34
North	U97-U98	476	1.55	55.96	2.59	93.27	6.17	222.20	4.05	145.91	3.49	125.69	2.72	98.07	2.27	81.87	2.51	90.49
North	U98-U99	477	1.34	48.07	2.23	80.11	5.43	195.43	3.55	127.92	3.06	110.34	2.40	86.28	2.03	73.05	2.21	79.52
North	U99-U100	478	1.32	47.65	2.21	79.42	5.34	192.27	3.51	126.23	3.02	108.61	2.42	87.17	2.01	72.46	2.28	81.99
North	U100-U101	479	1.33	47.70	2.21	79.50	5.34	192.31	3.51	126.25	3.02	108.63	2.42	87.18	2.01	72.46	2.28	82.00
North	U101-U102	480	1.31	47.06	2.18	78.44	5.30	190.63	3.47	125.07	2.99	107.79	2.36	84.78	1.99	71.71	2.19	78.67
North	U102-U103	481	1.46	52.59	2.43	87.65	5.84	210.35	3.83	137.81	3.30	118.87	2.58	92.74	2.17	78.18	2.38	85.56
North	U103-U104	482	1.85	66.72	3.09	111.19	7.06	254.30	4.67	168.19	4.02	144.68	3.16	113.87	2.59	93.33	2.87	103.19
North	U104-U105	483	16.36	588.91	27.26	981.52	75.09	2703.21	49.26	1773.37	42.32	1523.59	32.27	1161.63	25.65	923.44	29.19	1050.69
North	U105-U106	484	3.60	129.74	6.01	216.23	16.96	610.54	11.11	400.11	9.52	342.63	7.08	254.82	5.61	202.04	6.36	228.96
North	U106-U107	485	3.43	123.41	5.71	205.68	17.11	615.95	11.23	404.29	9.64	347.04	7.16	257.73	5.67	204.00	6.43	231.58
North	U107-U108	486	3.42	123.24	5.71	205.41	18.36	660.86	12.04	433.34	10.32	371.59	7.65	275.43	5.97	214.93	6.56	236.03
North	U108-U109	487	3.39	121.97	5.65	203.28	19.54	703.57	12.78	460.23	10.97	395.01	8.08	291.06	6.09	219.18	6.66	239.88
North	U109-U110	488	3.49	125.48	5.81	209.13	21.64	778.88	14.14	509.21	12.14	436.92	8.90	320.24	6.41	230.80	7.00	251.93
North	U110-U111	489	3.87	139.45	6.46	232.42	22.24	800.48	14.54	523.56	12.47	448.82	9.13	328.62	6.75	242.94	7.30	262.80
North	U111-U112	490	3.99	143.67	6.65	239.45	19.39	698.16	12.69	456.80	10.88	391.55	7.98	287.20	6.28	226.15	6.78	244.12
North	U112-U113	491	4.61	166.02	7.69	276.70	18.52	666.64	12.12	436.29	10.39	373.94	7.62	274.44	6.50	234.10	6.92	249.07
North	U113-U114	492	4.11	148.10	6.86	246.83	16.63	598.73	10.89	391.88	9.33	335.89	6.85	246.61	5.84	210.41	6.22	224.01

Truss	Member	Rating ID	As-Inspected Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
North	U114-U115	493	2.12	76.46	3.54	127.44	13.84	498.27	9.07	326.55	7.78	280.04	5.69	204.81	4.04	145.57	4.40	158.54
North	U115-U116	494	1.49	53.80	2.49	89.67	10.16	365.84	6.66	239.72	5.71	205.60	4.18	150.34	2.97	106.90	3.22	116.08
North	U116-U117	495	1.32	47.69	2.21	79.49	8.38	301.79	5.49	197.64	4.71	169.51	3.45	124.34	2.45	88.21	2.67	95.99
North	U117-U118	496	1.18	42.65	1.97	71.08	7.66	275.64	5.02	180.57	4.30	154.82	3.16	113.92	2.24	80.58	2.47	88.95
North	U118-U119	497	1.18	42.64	1.97	71.06	7.66	275.87	5.02	180.72	4.30	154.94	3.17	114.02	2.24	80.65	2.47	89.03
North	U119-U120	498	1.19	42.74	1.98	71.23	7.57	272.70	4.96	178.65	4.26	153.22	3.13	112.70	2.23	80.18	2.42	87.30
North	U120-U121	499	1.26	45.18	2.09	75.31	7.87	283.48	5.16	185.62	4.42	159.09	3.23	116.35	2.33	83.82	2.52	90.58
North	U121-U122	500	1.36	48.80	2.26	81.34	8.37	301.43	5.48	197.36	4.70	169.06	3.41	122.84	2.47	88.75	2.67	95.95
North	U122-U123	501	1.36	48.99	2.27	81.65	8.27	297.56	5.41	194.91	4.64	166.89	3.36	120.84	2.44	87.85	2.66	95.83
North	U123-U124	502	1.46	52.42	2.43	87.37	8.73	314.42	5.72	205.93	4.90	176.34	3.53	127.04	2.61	93.93	2.81	101.09
North	U124-U125	503	1.85	66.48	3.08	110.80	10.89	392.07	7.13	256.74	6.11	219.81	4.38	157.51	3.18	114.37	3.43	123.63
North	U125-U126	504	4.61	165.79	7.68	276.32	28.29	1018.45	18.50	666.02	15.82	569.63	11.24	404.46	8.08	290.83	8.78	316.23
South	U0-L0	505	0.75	27.08	1.25	45.14	2.97	107.00	1.99	71.55	1.74	62.58	1.33	47.89	1.12	40.18	1.25	44.96
South	U1-L1	506	1.38	49.73	2.30	82.89	5.55	199.83	3.71	133.69	3.25	117.04	2.57	92.64	2.16	77.88	2.46	88.73
South	U2-L2	507	1.30	46.92	2.17	78.20	4.81	173.07	3.23	116.31	2.83	102.03	2.32	83.62	1.99	71.57	2.29	82.45
South	U3-L3	508	1.31	47.20	2.19	78.67	4.69	168.77	3.18	114.31	2.80	100.66	2.43	87.60	2.15	77.44	2.43	87.34
South	U4-L4	509	3.85	138.51	6.41	230.84	13.31	479.18	9.11	327.97	8.19	294.94	7.81	281.03	7.42	267.12	8.04	289.51
South	U5-L5	510	1.22	43.97	2.04	73.29	3.55	127.84	2.43	87.33	2.22	80.10	2.59	93.10	2.04	73.58	2.59	93.18
South	U6-L6	511	1.09	39.07	1.81	65.11	4.40	158.31	2.91	104.93	2.53	91.03	2.03	72.92	1.69	60.69	1.95	70.37
South	U7-L7	512	1.53	55.17	2.55	91.94	5.84	210.18	3.86	139.07	3.34	120.39	2.61	94.06	2.16	77.79	2.36	84.99
South	U8-L8	513	1.33	47.71	2.21	79.52	6.07	218.44	4.04	145.50	3.53	126.93	2.77	99.60	2.16	77.78	2.42	86.99
South	U9-L9	514	1.56	56.05	2.59	93.42	6.94	249.91	4.63	166.61	4.04	145.49	3.43	123.63	2.50	90.17	2.96	106.54
South	U10-L10	515	1.16	41.76	1.93	69.61	6.15	221.31	4.08	146.75	3.50	125.84	2.62	94.29	2.05	73.95	2.19	78.92
South	U11-L11	516	1.67	60.05	2.78	100.08	6.85	246.58	4.55	163.96	3.96	142.65	3.01	108.52	2.50	89.94	2.73	98.37
South	U12-L12	517	1.35	48.65	2.25	81.08	5.41	194.85	3.61	129.85	3.15	113.26	2.42	87.21	2.04	73.53	2.23	80.27
South	U13-L13	518	1.18	42.56	1.97	70.93	4.97	178.97	3.32	119.55	2.90	104.49	2.27	81.62	1.90	68.26	2.02	72.87
South	U14-L14	519	1.14	40.92	1.89	68.19	5.75	206.91	3.85	138.77	3.39	121.88	2.71	97.51	2.00	72.00	2.32	83.59
South	U15-L15	520	1.25	45.16	2.09	75.26	3.64	131.16	2.49	89.60	2.28	82.20	2.65	95.51	2.09	75.19	2.62	94.16
South	U16-L16	521	1.55	55.71	2.58	92.85	6.55	235.88	4.34	156.41	3.77	135.75	3.03	109.04	2.38	85.60	2.80	100.79
South	U17-L17	522	1.35	48.57	2.25	80.95	5.35	192.55	3.54	127.42	3.06	110.33	2.40	86.53	2.02	72.73	2.21	79.44
South	U18-L18	523	1.24	44.49	2.06	74.15	5.00	179.99	3.31	119.05	2.86	103.01	2.22	80.03	1.84	66.26	2.02	72.70
South	U19-L19	524	1.74	62.79	2.91	104.65	6.96	250.63	4.61	165.84	3.99	143.54	3.10	111.64	2.56	92.30	2.82	101.39
South	U20-L20	525	1.29	46.37	2.15	77.28	6.41	230.84	4.24	152.74	3.65	131.52	2.77	99.62	2.25	80.93	2.41	86.59
South	U21-L21	526	1.52	54.69	2.53	91.15	5.96	214.43	4.05	145.64	3.53	127.13	3.11	112.05	2.42	87.16	2.84	102.08
South	U22-L22	527	1.23	44.25	2.05	73.74	4.98	179.22	3.37	121.39	2.95	106.10	2.37	85.46	1.96	70.51	2.24	80.74
South	U23-L23	528	1.19	42.97	1.99	71.62	4.54	163.40	3.05	109.70	2.67	96.26	2.18	78.46	1.84	66.31	2.14	77.13
South	U24-L24	529	1.16	41.92	1.94	69.87	4.17	150.07	2.82	101.60	2.47	88.94	2.16	77.72	1.87	67.47	2.17	78.11
South	U25-L25	530	1.16	41.94	1.94	69.89	3.38	121.61	2.31	83.12	2.12	76.27	2.47	89.08	1.94	69.88	2.44	87.92
South	U26-L26	531	1.81	65.06	3.01	108.43	6.50	233.95	4.37	157.36	3.86	138.85	3.71	133.60	3.02	108.85	3.77	135.68
South	U27-L27	532	1.28	46.03	2.13	76.72	4.72	169.87	3.15	113.43	2.76	99.22	2.42	86.95	2.06	74.15	2.43	87.35
South	U28-L28	533	1.60	57.68	2.67	96.14	6.01	216.53	4.00	143.87	3.48	125.15	2.87	103.27	2.40	86.37	2.84	102.25
South	U29-L29	534	1.49	53.75	2.49	89.58	5.85	210.67	3.92	141.15	3.44	123.97	2.82	101.38	2.32	83.53	2.69	96.80
South	U30-L30	535	2.14	77.12	3.57	128.54	11.75	422.94	7.81	281.07	6.69	240.94	5.03	181.02	3.88	139.80	4.22	151.88
South	U31-L31	536	1.63	58.66	2.72	97.76	6.69	240.91	4.45	160.37	3.88	139.66	2.96	106.49	2.46	88.53	2.69	96.73
South	U32-L32	537	1.48	53.27	2.47	88.78	5.97	214.82	3.98	143.20	3.47	124.85	2.67	96.07	2.25	81.05	2.46	88.48
South	U33-L33	538	1.58	56.89	2.63	94.81	6.17	222.24	4.13	148.51	3.60	129.76	2.82	101.48	2.39	86.22	2.59	93.26
South	U34-L34	539	1.49	53.75	2.49	89.59	5.92	213.26	3.97	143.09	3.49	125.68	2.80	100.76	2.23	80.32	2.59	93.32
South	U35-L35	540	1.33	47.82	2.21	79.69	3.86	139.01	2.64	94.95	2.42	87.10	2.81	101.30	2.22	80.00	2.89	104.04
South	U36-L36	541	1.97	70.86	3.28	118.10	7.65	275.31	5.07	182.50	4.40	158.30	3.53	126.92	2.90	104.46	3.39	122.04
South	U37-L37	542	1.54	55.42	2.57	92.37	6.11	219.90	4.04	145.48	3.50	125.91	2.74	98.58	2.31	83.07	2.52	90.80
South	U38-L38	543	1.29	46.52	2.15	77.53	5.28	190.05	3.49	125.73	3.02	108.83	2.35	84.57	1.94	69.97	2.13	76.74
South	U39-L39	544	1.58	57.05	2.64	95.09	6.57	236.54	4.35	156.55	3.76	135.54	2.93	105.41	2.42	87.12	2.66	95.64
South	U40-L40	545	2.18	78.35	3.63	130.59	11.65	419.56	7.73	278.11	6.66	239.69	5.10	183.52	3.98	143.11	4.38	157.75
South	U41-L41	546	1.56	56.10	2.60	93.51	6.56	236.22	4.48	161.37	3.90	140.53	3.15	113.30	2.58	93.06	2.85	102.53
South	U42-L42	547	1.26	45.43	2.10	75.72	5.30	190.69	3.53	127.14	3.08	110.95	2.41	86.66	2.00	71.91	2.28	81.92
South	U43-L43	548	1.39	49.93	2.31	83.22	5.31	191.21	3.57	128.61	3.13	112.72	2.57	92.37	2.15	77.54	2.50	90.00
South	U44-L44	549	1.41	50.92	2.36	84.87	5.07	182.42	3.43	123.52	3.02	108.81	2.64	95.12	2.26	81.25	2.57	92.58
South	U45-L45	550	1.38	49.76	2.30	82.93	4.02	144.72	2.75	98.84	2.52	90.56	2.92	105.18	2.30	82.93	2.89	103.87
South	U46-L46	551	1.29	46.35	2.15	77.26	4.73	170.29	3.16	113.81	2.77	99.72	2.44	87.96	2.10	75.42	2.48	89.38
South	U47-L47	552	1.26	45.49	2.11	75.82	4.89	175.91	3.25	117.02	2.83	101.98	2.37	85.27	1.99	71.64	2.34	84.28
South	U48-L48	553	1.07	38.54	1.78	64.23	4.65	167.24	3.06	110.26	2.64	95.07	2.12	76.40	1.77	63.60	2.03	73.06
South	U49-L49	554	1.59	57.24	2.65	95.39	6.89	248.08	4.59	165.19	4.00	144.01	3.27	117.76	2.88	103.83	3.02	108.77
South	U50-L50	555	1.99	71.48	3.31	119.13	12.52	450.71	8.24	296.51	7.08	255.01	5.35	192.47	3.93	141.50	4.37	157.22
South	U51-L51	556	1.92	69.20	3.20	115.34	9.43	339.35	6.20	223.17	5.36	193.02	4.11	148.00	3.32	119.62	3.67	132.17
South	U52-L52	557	1.58	56.92	2.64	94.86	7.58	273.05	4.99	179.67	4.31	155.26	3.31	119.14	2.81	101.30	3.00	108.12
South	U53-L53	558	2.13	76.50	3.54	127.50	9.80	352.93	6.45	232.34	5.58	200.85	4.31	155.20	3.54	127.43	3.90	140.26
South	U54-L54	559	1.54	55.46	2.57	92.43	6.96	250.64	4.59	165.18	3.97	142.96	3.09	111.41	2.58	92.90	2.78	100.22
South	U55-L55	560	1.87	67.21	3.11	112.02	8.09	291.27	5.34	192.33	4.63	166.66	3.69	132.81	3.21	115.72	3.47	124.83
South	U56-L56	561	1.97	70.79	3.28	117.99	5.84	210.11	3.95	142.04	3.58	128.75	4.12	148.18	3.29	118.47	4.09	147.24
South	U57-L57	562	1.50	53.95	2.50	89.91	7.13	256.61	4.71	169.59	4.07	146.47	3.18	114.30	2.53	90.95	2.82	101.66
South	U58-L58	563	1.88	67.60	3.13	112.67	8.56	308.26	5.66	203.61	4.88	175.84	3.79	136.48	3.12	112.28	3.68	132.45
South	U59-L59	564	2.17	78.05	3.61	130.08	10.44	375.93	6.89	248.07	5.95	214.05	4.57	164.45	3.73	134.26	4.23	152.27
South	U60-L60	565	1.68	60.58	2.80	100.96	8.25	297.02	5.44	196.02	4.70	169.32	3.63	130.61	2.99	107.52	3.24	116.64
South	U61-L61	566	1.77	63.59	2.94	105.99	8.62	310.35	5.69	205.00	4.93	177.32	3.84	138.40	3.13	112.71	3.45	124.09
South	U62-L62	567	1.85	66.47	3.08	110.78	9.88	355.78	6.48	233.38	5.58	200.95	4.31	155.18	3.53	127.01	3.91	140.73
South	U63-L63	568	1.71	61.59	2.85	102.66	7.27	261.58	4.80	172.77	4.16	149.74	3.63	130.72	2.76	99.21	3.67	132.19
South	U64-L64	569	1.62	58.35	2.70	97.25	7.15	257.24	4.72	169.88	4.09	147.21	3.29	118.52	2.66	95.83	3.00	107.84
South	U65-L65	570	1.23	44.19	2.05	73.65	5.24	188.54	3.46	124.65	2.97	107.01	2.35	84.76	1.93	69.63	2.22	79.90
South	U66-L66	571	1.36	48.80	2.26	81.33	5.24	188.67	3.46	124.73	2.99	107.62	2.49	89.70	2.06	74.29	2.40	86.41
South	U67-L67	572	1.46	52.64	2.44	87.74	5.46	196.49	3.61	129.83	3.13	112.55	2.78	99.93	2.34	84.13	2.73	98.40
South	U68-L68	573	1.91	68.67	3.18	114.44	5.72	205.93	3.83	137.99	3.46	124.39	4.00	143.88	3.16	113.90	3.99	143.51
South	U69-L69	574	1.33	47.75	2.21	79.59	4.89	175.97	3.26	117.34	2.82	101.53	2.46	88.45	2.11	75.82	2.51	90.51

Truss	Member	Rating ID	As-Inspected Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
South	U70-L70	575	1.32	47.37	2.19	78.95	4.93	177.65	3.27	117.88	2.83	101.80	2.33	83.96	1.96	70.54	2.32	83.55
South	U71-L71	576	1.37	49.24	2.28	82.07	5.64	203.05	3.73	134.28	3.23	116.17	2.56	92.01	2.11	76.09	2.41	86.88
South	U72-L72	577	1.50	53.89	2.49	89.81	6.46	232.50	4.30	154.83	3.71	133.59	2.96	106.61	2.45	88.05	2.69	96.68
South	U73-L73	578	1.85	66.53	3.08	110.89	7.79	280.59	5.19	186.80	4.48	161.33	3.90	140.40	2.93	105.58	3.46	124.47
South	U74-L74	579	2.03	73.00	3.38	121.66	12.53	451.14	8.21	295.39	7.03	253.03	5.14	184.96	3.69	132.96	4.03	145.24
South	U75-L75	580	1.50	54.10	2.50	90.17	8.79	316.45	5.79	208.53	4.95	178.04	3.64	130.90	2.63	94.85	2.87	103.26
South	U76-L76	581	1.25	44.96	2.08	74.93	7.29	262.34	4.80	172.75	4.10	147.59	3.01	108.52	2.23	80.21	2.40	86.42
South	U77-L77	582	1.66	59.68	2.76	99.47	9.53	343.07	6.27	225.89	5.36	192.98	3.95	142.30	3.00	108.00	3.19	114.87
South	U78-L78	583	1.69	60.85	2.82	101.42	9.43	339.56	6.22	223.74	5.31	191.15	3.93	141.53	2.95	106.15	3.21	115.55
South	U79-L79	584	1.77	63.80	2.95	106.34	9.76	351.35	6.43	231.63	5.49	197.81	4.08	147.05	3.08	110.75	3.35	120.66
South	U80-L80	585	2.32	83.68	3.87	139.46	12.13	436.66	8.01	288.49	6.85	246.63	5.17	186.06	3.92	141.23	4.32	155.35
South	U81-L81	586	2.52	90.78	4.20	151.30	11.69	420.78	7.72	277.79	6.60	237.73	5.02	180.56	4.06	146.13	4.49	161.53
South	U82-L82	587	1.96	70.67	3.27	117.78	5.92	212.98	3.96	142.64	3.57	128.47	4.11	147.81	3.27	117.71	4.11	147.86
South	U83-L83	588	1.02	36.84	1.71	61.40	6.44	231.79	4.23	152.37	3.64	131.18	2.73	98.46	1.79	64.51	2.17	78.19
South	U84-L84	589	1.25	44.90	2.08	74.83	7.49	269.80	4.93	177.39	4.24	152.63	3.16	113.63	2.20	79.33	2.44	87.69
South	U85-L85	590	1.84	66.13	3.06	110.21	10.73	386.25	7.05	253.75	6.06	218.29	4.49	161.79	3.23	116.46	3.52	126.81
South	U86-L86	591	1.54	55.59	2.57	92.65	8.79	316.43	5.78	207.96	4.97	178.86	3.66	131.81	2.71	97.70	2.94	105.81
South	U87-L87	592	1.39	50.02	2.32	83.36	8.03	288.91	5.27	189.90	4.54	163.33	3.35	120.48	2.50	89.95	2.67	95.96
South	U88-L88	593	1.28	46.03	2.13	76.72	7.27	261.80	4.78	172.25	4.12	148.27	3.05	109.77	2.26	81.42	2.44	87.94
South	U89-L89	594	1.75	63.17	2.92	105.29	9.52	342.85	6.27	225.70	5.40	194.27	4.03	144.97	2.99	107.67	3.27	117.75
South	U90-L90	595	3.02	108.70	5.03	181.16	11.71	421.56	7.66	275.92	6.58	236.84	4.88	175.80	4.16	149.82	4.44	159.95
South	U91-L91	596	2.02	72.63	3.36	121.05	7.50	270.17	4.96	178.44	4.30	154.62	3.82	137.48	3.90	140.55	5.19	186.72
South	U92-L92	597	1.55	55.64	2.58	92.74	5.76	207.24	3.80	136.87	3.29	118.58	2.90	104.34	2.49	89.48	2.97	106.90
South	U93-L93	598	1.37	49.21	2.28	82.02	5.93	213.50	3.92	141.05	3.39	122.03	2.95	106.17	2.21	79.49	2.55	91.95
South	U94-L94	599	1.22	44.04	2.04	73.41	6.39	230.18	4.23	152.13	3.64	130.92	2.89	104.15	2.18	78.48	2.39	86.02
South	U95-L95	600	1.14	40.94	1.90	68.23	6.04	217.38	3.98	143.46	3.40	122.47	2.54	91.58	1.92	69.08	2.21	79.64
South	U96-L96	601	2.78	100.11	4.63	166.84	13.71	493.72	9.07	326.54	7.75	279.03	5.90	212.25	4.61	165.78	5.11	183.96
South	U97-L97	602	1.01	36.31	1.68	60.51	4.61	165.78	3.04	109.62	2.61	93.93	2.03	72.94	1.64	58.98	1.82	65.36
South	U98-L98	603	1.10	39.77	1.84	66.29	4.54	163.61	3.01	108.40	2.58	93.04	2.06	74.10	1.70	61.10	1.96	70.61
South	U99-L99	604	1.28	45.99	2.13	76.64	4.83	174.01	3.21	115.68	2.76	99.38	2.28	82.06	1.90	68.52	2.36	85.13
South	U100-L100	605	1.36	48.88	2.26	81.47	4.09	147.27	2.74	98.64	2.47	88.84	2.84	102.26	2.26	81.22	3.55	127.90
South	U101-L101	606	1.65	59.42	2.75	99.03	6.21	223.47	4.11	148.05	3.57	128.56	2.95	106.26	2.54	91.39	3.23	116.41
South	U102-L102	607	1.31	47.09	2.18	78.49	5.18	186.36	3.42	123.17	2.96	106.63	2.35	84.75	1.97	70.81	2.29	82.48
South	U103-L103	608	1.14	41.09	1.90	68.48	5.11	184.05	3.37	121.39	2.91	104.83	2.26	81.20	1.85	66.43	2.03	73.20
South	U104-L104	609	1.29	46.43	2.15	77.39	6.26	225.50	4.12	148.43	3.55	127.96	2.71	97.49	2.13	76.52	2.36	84.96
South	U105-L105	610	1.03	37.14	1.72	61.89	5.49	197.50	3.60	129.73	3.10	111.55	2.31	83.05	1.73	62.39	2.01	72.42
South	U106-L106	611	1.24	44.77	2.07	74.62	6.31	227.00	4.18	150.45	3.61	130.06	2.91	104.83	2.26	81.33	2.47	89.05
South	U107-L107	612	1.29	46.33	2.14	77.22	5.67	204.13	3.77	135.88	3.26	117.23	2.79	100.46	2.10	75.56	2.40	86.48
South	U108-L108	613	1.57	56.56	2.62	94.26	5.79	208.31	3.85	138.70	3.33	119.74	2.92	104.99	2.51	90.46	3.09	111.28
South	U109-L109	614	2.80	100.84	4.67	168.07	10.17	366.17	6.76	243.26	5.86	211.05	5.32	191.44	6.33	228.03	7.90	284.33
South	U110-L110	615	1.73	62.43	2.89	104.05	8.68	312.62	5.69	204.72	4.89	175.97	3.65	131.23	2.80	100.82	3.05	109.97
South	U111-L111	616	1.27	45.89	2.12	76.49	7.07	254.62	4.65	167.32	4.00	144.12	3.00	108.15	2.21	79.65	2.41	86.68
South	U112-L112	617	1.19	42.82	1.98	71.37	6.79	244.29	4.45	160.30	3.83	137.97	2.86	102.80	2.12	76.29	2.26	81.31
South	U113-L113	618	1.44	51.72	2.39	86.20	8.26	297.44	5.41	194.75	4.66	167.60	3.46	124.64	2.61	94.05	2.73	98.39
South	U114-L114	619	1.64	59.13	2.74	98.56	9.66	347.64	6.32	227.61	5.45	196.09	4.08	147.03	2.92	105.27	3.26	117.20
South	U115-L115	620	2.05	73.75	3.41	122.92	13.09	471.35	8.58	308.78	7.39	266.06	5.51	198.50	3.67	132.01	4.10	147.68
South	U116-L116	621	1.54	55.59	2.57	92.66	11.22	403.77	7.36	264.84	6.33	227.86	4.73	170.38	3.21	115.53	3.50	125.95
South	U117-L117	622	1.70	61.12	2.83	101.87	11.90	428.44	7.81	281.27	6.71	241.55	5.05	181.80	3.32	119.35	4.09	147.23
South	U118-L118	623	2.55	91.66	4.24	152.77	7.53	271.17	5.10	183.72	4.62	166.16	5.30	190.81	4.22	151.90	5.30	190.89
South	U119-L119	624	4.19	150.70	6.98	251.16	16.52	594.60	10.86	390.91	9.37	337.35	7.33	263.71	6.27	225.76	7.57	272.39
South	U120-L120	625	2.98	107.34	4.97	178.90	14.21	511.45	9.37	337.20	8.06	290.26	6.11	219.90	5.89	212.10	5.55	199.86
South	U121-L121	626	1.49	53.47	2.48	89.12	8.33	299.74	5.47	196.99	4.71	169.57	3.52	126.84	2.77	99.56	2.99	107.52
South	U122-L122	627	1.57	56.46	2.61	94.10	9.25	332.99	6.08	218.83	5.24	188.55	3.92	141.28	2.99	107.48	3.25	116.94
South	U123-L123	628	2.04	73.41	3.40	122.35	12.16	437.73	8.00	287.82	6.89	248.13	5.18	186.38	4.05	145.90	4.22	151.82
South	U124-L124	629	1.64	59.02	2.73	98.36	9.75	351.11	6.42	231.19	5.54	199.41	4.18	150.38	3.12	112.14	3.37	121.16
South	U125-L125	630	1.74	62.71	2.90	104.52	10.14	365.21	6.68	240.48	5.77	207.58	4.38	157.74	3.18	114.61	3.53	126.97
South	U126-L126	631	2.05	73.93	3.42	123.22	10.93	393.61	7.05	253.67	6.11	220.10	4.54	163.35	3.31	119.34	3.68	132.55
North	U0-L0	632	0.75	27.03	1.25	45.05	2.97	106.77	1.98	71.40	1.73	62.46	1.33	47.79	1.11	40.09	1.25	44.86
North	U1-L1	633	1.37	49.28	2.28	82.14	5.54	199.44	3.71	133.43	3.24	116.81	2.57	92.46	2.16	77.73	2.46	88.56
North	U2-L2	634	1.28	46.13	2.14	76.88	4.80	172.64	3.22	116.01	2.83	101.77	2.32	83.41	1.98	71.39	2.28	82.25
North	U3-L3	635	1.31	47.07	2.18	78.44	4.67	168.30	3.17	113.99	2.79	100.38	2.43	87.36	2.15	77.22	2.42	87.10
North	U4-L4	636	3.84	138.39	6.41	230.65	13.30	478.81	9.10	327.71	8.19	294.69	7.80	280.80	7.41	266.87	8.03	289.25
North	U5-L5	637	1.22	43.89	2.03	73.15	3.54	127.61	2.42	87.17	2.22	79.95	2.58	92.93	2.04	73.44	2.58	93.01
North	U6-L6	638	1.02	36.61	1.69	61.01	4.15	149.33	2.75	98.98	2.39	85.86	1.91	68.79	1.59	57.25	1.84	66.38
North	U7-L7	639	1.08	38.94	1.80	64.90	4.12	148.36	2.73	98.17	2.36	84.98	1.84	66.39	1.53	54.91	1.67	59.99
North	U8-L8	640	1.32	47.41	2.20	79.02	6.05	217.89	4.03	145.14	3.52	126.61	2.76	99.36	2.16	77.59	2.41	86.79
North	U9-L9	641	1.52	54.85	2.54	91.41	6.92	249.19	4.61	166.13	4.03	145.07	3.42	123.29	2.50	89.90	2.95	106.23
North	U10-L10	642	1.06	38.17	1.77	63.61	6.09	219.11	4.04	145.32	3.46	124.61	2.59	93.39	2.03	73.25	2.17	78.20
North	U11-L11	643	1.47	52.85	2.45	88.08	6.81	245.21	4.53	163.05	3.94	141.86	3.00	107.90	2.48	89.41	2.72	97.78
North	U12-L12	644	1.21	43.52	2.01	72.53	5.39	193.92	3.59	129.23	3.13	112.72	2.41	86.78	2.03	73.15	2.22	79.86
North	U13-L13	645	0.96	34.54	1.60	57.56	4.38	157.80	2.93	105.40	2.56	92.13	2.00	71.96	1.67	60.17	1.78	64.23
North	U14-L14	646	1.12	40.17	1.86	66.94	5.73	206.13	3.84	138.24	3.37	121.41	2.70	97.12	1.99	71.72	2.31	83.26
North	U15-L15	647	1.25	45.09	2.09	75.14	3.64	130.97	2.49	89.47	2.28	82.08	2.65	95.37	2.09	75.07	2.61	94.02
North	U16-L16	648	1.40	50.24	2.33	83.73	6.54	235.50	4.34	156.17	3.76	135.54	3.02	108.86	2.37	85.46	2.80	100.63
North	U17-L17	649	1.20	43.05	1.99	71.76	5.33	191.84	3.53	126.96	3.05	109.93	2.39	86.21	2.01	72.45	2.20	79.13
North	U18-L18	650	1.05	37.75	1.75	62.91	4.73	170.29	3.13	112.63	2.71	97.46	2.10	75.71	1.74	62.67	1.91	68.76
North	U19-L19	651	1.58	56.75	2.63	94.58	6.93	249.36	4.58	165.00	3.97	142.81	3.08	111.06	2.55	91.80	2.80	100.83
North	U20-L20	652	1.21	43.72	2.02	72.87	6.35	228.53	4.20	151.21	3.62	130.19	2.74	98.60	2.23	80.15	2.38	85.74
North	U21-L21	653	1.50	53.93	2.50	89.89	5.94	213.82	4.03	145.23	3.52	126.76	3.10	111.74	2.41	86.91	2.83	101.78
North	U22-L22	654	0.97	35.03	1.62	58.38	3.96	142.66	2.68	96.62	2.35	84.45	1.89	68.01	1.56	56.12	1.79	64.26
North	U23-L23	655	1.03	37.03	1.71	61.72	3.95	142.16	2.65	95.44	2.33	83.75	1.90	68.27	1.60	57.71	1.86	67.13
North	U24-L24	656	1.16	41.86	1.94	69.76	4.16	149.83	2.82	101.44	2.47	88.81	2.16	77.60	1.87	67.39	2.17	77.97

Truss	Member	Rating ID	As-Inspected Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
North	U25-L25	657	1.16	41.89	1.94	69.81	3.37	121.47	2.31	83.03	2.12	76.18	2.47	88.97	1.94	69.80	2.44	87.82
North	U26-L26	658	1.80	64.97	3.01	108.28	6.49	233.62	4.37	157.14	3.85	138.65	3.71	133.41	3.02	108.71	3.76	135.43
North	U27-L27	659	1.28	45.94	2.13	76.56	4.71	169.53	3.14	113.19	2.75	99.02	2.41	86.77	2.06	74.00	2.42	87.18
North	U28-L28	660	1.28	45.91	2.13	76.52	4.79	172.35	3.18	114.52	2.77	99.61	2.28	82.18	1.91	68.74	2.26	81.37
North	U29-L29	661	1.49	53.48	2.48	89.14	5.85	210.61	3.92	141.12	3.44	123.94	2.82	101.36	2.32	83.50	2.69	96.77
North	U30-L30	662	1.98	71.13	3.29	118.55	11.51	414.28	7.65	275.42	6.56	236.13	4.93	177.38	3.80	136.79	4.13	148.54
North	U31-L31	663	1.41	50.61	2.34	84.35	6.53	235.21	4.35	156.56	3.79	136.32	2.88	103.84	2.39	86.15	2.62	94.15
North	U32-L32	664	1.29	46.37	2.15	77.29	5.79	208.50	3.86	138.95	3.36	121.13	2.58	93.05	2.18	78.36	2.38	85.53
North	U33-L33	665	1.38	49.78	2.30	82.96	5.93	213.58	3.96	142.67	3.46	124.63	2.70	97.22	2.29	82.52	2.48	89.16
North	U34-L34	666	1.35	48.43	2.24	80.71	5.57	200.35	3.73	134.34	3.27	117.85	2.62	94.14	2.09	75.12	2.42	87.06
North	U35-L35	667	1.32	47.68	2.21	79.46	3.85	138.61	2.63	94.68	2.41	86.85	2.81	101.01	2.22	79.77	2.88	103.74
North	U36-L36	668	1.63	58.61	2.71	97.69	7.28	262.14	4.83	173.80	4.19	150.78	3.36	120.97	2.75	98.86	3.21	115.53
North	U37-L37	669	1.37	49.16	2.28	81.93	6.14	220.90	4.06	146.14	3.51	126.50	2.75	99.10	2.31	83.33	2.53	91.23
North	U38-L38	670	1.15	41.53	1.92	69.22	5.18	186.55	3.43	123.43	2.97	106.84	2.31	83.01	1.91	68.59	2.09	75.26
North	U39-L39	671	1.41	50.84	2.35	84.73	6.40	230.51	4.24	152.55	3.67	132.07	2.85	102.66	2.35	84.74	2.58	93.04
North	U40-L40	672	2.06	74.06	3.43	123.43	11.20	403.27	7.42	267.25	6.40	230.46	4.90	176.28	3.81	137.10	4.20	151.32
North	U41-L41	673	1.37	49.40	2.29	82.33	5.83	209.89	3.98	143.34	3.47	124.84	2.79	100.38	2.29	82.59	2.52	90.63
North	U42-L42	674	1.28	46.06	2.13	76.77	5.42	195.24	3.61	130.11	3.15	113.46	2.45	88.38	2.04	73.57	2.32	83.68
North	U43-L43	675	1.28	46.12	2.14	76.86	5.03	181.00	3.38	121.58	2.96	106.57	2.43	87.43	2.04	73.35	2.35	84.73
North	U44-L44	676	1.28	45.92	2.13	76.54	4.56	164.28	3.09	111.21	2.72	97.88	2.37	85.31	2.01	72.29	2.34	84.09
North	U45-L45	677	1.33	47.75	2.21	79.59	3.86	138.94	2.64	94.89	2.41	86.93	2.81	101.11	2.21	79.58	2.77	99.82
North	U46-L46	678	1.19	42.88	1.99	71.46	4.39	158.19	2.93	105.54	2.56	92.32	2.25	81.07	1.93	69.54	2.28	82.20
North	U47-L47	679	1.27	45.70	2.12	76.17	4.77	171.87	3.17	114.03	2.75	99.10	2.27	81.79	1.91	68.92	2.22	79.95
North	U48-L48	680	**0.64**	**22.91**	**1.06**	**38.19**	**2.54**	**91.56**	**1.68**	**60.56**	**1.46**	**52.39**	**1.14**	**41.08**	**0.95**	**34.02**	**1.08**	**39.00**
North	U49-L49	681	1.49	53.62	2.48	89.37	6.23	224.18	4.13	148.72	3.60	129.56	2.95	106.18	2.40	86.33	2.63	94.77
North	U50-L50	682	1.83	66.03	3.06	110.05	11.28	406.11	7.41	266.69	6.34	228.35	4.63	166.76	3.42	123.17	3.72	133.99
North	U51-L51	683	1.32	47.42	2.20	79.03	6.66	239.88	4.39	157.86	3.77	135.74	2.79	100.26	2.21	79.51	2.38	85.56
North	U52-L52	684	1.15	41.58	1.92	69.30	5.70	205.34	3.76	135.21	3.23	116.37	2.41	86.72	2.01	72.26	2.11	75.99
North	U53-L53	685	1.46	52.45	2.43	87.41	6.97	251.07	4.59	165.42	3.96	142.52	2.98	107.39	2.46	88.39	2.66	95.94
North	U54-L54	686	1.51	54.42	2.52	90.70	6.80	244.87	4.49	161.56	3.87	139.45	2.97	106.77	2.44	87.90	2.65	95.54
North	U55-L55	687	1.20	43.22	2.00	72.03	4.96	178.74	3.28	118.14	2.84	102.21	2.21	79.73	1.90	68.50	2.03	73.10
North	U56-L56	688	1.60	57.58	2.67	95.97	4.75	171.02	3.22	115.80	2.91	104.62	3.34	120.27	2.67	95.98	3.32	119.60
North	U57-L57	689	0.84	30.38	1.41	50.63	3.95	142.31	2.61	93.86	2.25	80.87	1.75	63.01	1.46	52.45	1.59	57.33
North	U58-L58	690	1.46	52.64	2.44	87.73	6.93	249.40	4.56	164.08	3.92	141.18	2.99	107.75	2.47	88.85	2.78	100.14
North	U59-L59	691	1.44	51.86	2.40	86.43	7.09	255.19	4.66	167.83	4.00	144.17	3.01	108.29	2.48	89.16	2.72	98.02
North	U60-L60	692	1.27	45.79	2.12	76.32	6.18	222.57	4.07	146.39	3.49	125.79	2.61	94.06	2.17	77.97	2.28	82.00
North	U61-L61	693	1.52	54.64	2.53	91.07	7.14	257.07	4.69	168.96	4.03	145.22	3.02	108.77	2.42	87.09	2.59	93.31
North	U62-L62	694	1.92	69.23	3.21	115.39	11.05	397.68	7.23	260.26	6.20	223.32	4.59	165.06	3.68	132.64	4.00	144.12
North	U63-L63	695	1.78	64.24	2.97	107.07	7.72	278.10	5.11	184.08	4.44	159.73	3.88	139.72	2.94	105.72	3.79	136.36
North	U64-L64	696	1.49	53.60	2.48	89.34	6.53	235.04	4.32	155.56	3.75	134.92	3.01	108.28	2.44	87.86	2.72	97.81
North	U65-L65	697	1.05	37.68	1.74	62.80	4.44	159.76	2.94	105.82	2.52	90.83	1.99	71.77	1.64	59.11	1.88	67.54
North	U66-L66	698	1.20	43.14	2.00	71.90	5.14	185.04	3.41	122.58	2.94	105.87	2.45	88.05	2.03	73.03	2.35	84.68
North	U67-L67	699	1.43	51.65	2.39	86.08	5.31	191.15	3.53	127.07	3.06	110.08	2.71	97.43	2.29	82.36	2.67	95.94
North	U68-L68	700	1.90	68.48	3.17	114.14	5.70	205.34	3.83	137.93	3.44	124.00	3.96	142.43	3.17	113.98	4.01	144.43
North	U69-L69	701	1.35	48.45	2.24	80.74	4.95	178.36	3.30	118.97	2.85	102.73	2.49	89.62	2.13	76.82	2.54	91.37
North	U70-L70	702	1.29	46.32	2.14	77.20	4.96	178.70	3.30	118.67	2.84	102.27	2.35	84.42	1.96	70.70	2.27	81.86
North	U71-L71	703	1.73	62.19	2.88	103.66	7.12	256.22	4.71	169.54	4.07	146.38	3.22	115.99	2.67	95.99	3.05	109.67
North	U72-L72	704	1.45	52.14	2.41	86.90	6.47	232.81	4.29	154.60	3.71	133.58	2.96	106.58	2.43	87.63	2.69	96.70
North	U73-L73	705	1.81	65.33	3.02	108.89	7.80	280.82	5.18	186.42	4.48	161.22	3.90	140.40	2.93	105.49	3.46	124.48
North	U74-L74	706	1.85	66.72	3.09	111.19	12.24	440.75	8.02	288.79	6.88	247.57	5.02	180.76	3.58	129.03	3.94	141.67
North	U75-L75	707	1.31	47.32	2.19	78.87	8.67	312.17	5.71	205.70	4.89	175.98	3.58	128.97	2.59	93.19	2.82	101.46
North	U76-L76	708	1.12	40.27	1.86	67.12	7.26	261.26	4.78	172.25	4.09	147.34	3.00	107.98	2.22	80.00	2.38	85.77
North	U77-L77	709	1.49	53.48	2.48	89.13	9.46	340.67	6.24	224.58	5.34	192.12	3.92	141.17	2.96	106.65	3.16	113.68
North	U78-L78	710	1.52	54.74	2.53	91.23	9.35	336.52	6.17	222.00	5.28	190.01	3.89	140.15	2.93	105.35	3.17	114.15
North	U79-L79	711	1.59	57.27	2.65	95.45	9.67	348.02	6.38	229.55	5.46	196.64	4.04	145.55	3.05	109.78	3.32	119.70
North	U80-L80	712	2.23	80.37	3.72	133.95	12.35	444.77	8.16	293.80	7.00	252.06	5.26	189.20	3.99	143.68	4.40	158.23
North	U81-L81	713	2.48	89.17	4.13	148.62	11.58	416.85	7.64	274.99	6.57	236.41	4.96	178.63	4.01	144.40	4.44	159.90
North	U82-L82	714	1.97	70.79	3.28	117.98	5.92	213.24	3.98	143.18	3.57	128.62	4.08	146.97	3.26	117.48	4.10	147.45
North	U83-L83	715	0.78	27.97	1.29	46.62	5.31	191.10	3.49	125.72	3.01	108.27	2.26	81.28	1.49	53.62	1.78	64.06
North	U84-L84	716	1.04	37.61	1.74	62.68	7.09	255.24	4.66	167.90	4.01	144.50	2.98	107.46	2.10	75.55	2.31	83.00
North	U85-L85	717	1.61	57.79	2.68	96.32	10.72	385.97	7.05	253.89	6.06	218.28	4.49	161.71	3.24	116.70	3.51	126.36
North	U86-L86	718	1.38	49.50	2.29	82.51	8.77	315.69	5.77	207.57	4.96	178.53	3.65	131.46	2.69	96.95	2.92	105.03
North	U87-L87	719	1.23	44.12	2.04	73.54	7.67	276.25	5.05	181.66	4.34	156.27	3.20	115.11	2.39	86.06	2.54	91.29
North	U88-L88	720	1.20	43.24	2.00	72.06	7.21	259.70	4.75	170.94	4.08	146.99	3.02	108.78	2.23	80.17	2.41	86.80
North	U89-L89	721	1.70	61.08	2.83	101.79	9.42	339.06	6.20	223.31	5.33	192.00	3.98	143.23	2.95	106.03	3.22	115.80
North	U90-L90	722	2.91	104.91	4.86	174.85	11.29	406.55	7.39	266.11	6.35	228.53	4.71	169.56	3.98	143.11	4.27	153.60
North	U91-L91	723	2.05	73.72	3.41	122.87	7.58	272.96	5.02	180.67	4.35	156.72	3.86	139.01	3.95	142.08	5.32	191.66
North	U92-L92	724	1.57	56.43	2.61	94.05	5.81	209.25	3.85	138.50	3.34	120.10	2.93	105.37	2.51	90.45	2.97	107.00
North	U93-L93	725	1.39	50.08	2.32	83.46	5.97	215.03	3.95	142.35	3.42	123.29	2.97	106.98	2.24	80.77	2.57	92.36
North	U94-L94	726	1.24	44.71	2.07	74.52	6.46	232.56	4.28	153.99	3.68	132.52	2.93	105.31	2.19	78.79	2.42	86.98
North	U95-L95	727	1.07	38.38	1.78	63.97	5.81	209.29	3.83	137.95	3.28	118.09	2.45	88.13	1.85	66.71	2.13	76.85
North	U96-L96	728	2.23	80.13	3.71	133.55	12.78	459.94	8.45	304.18	7.23	260.32	5.49	197.60	4.29	154.52	4.77	171.60
North	U97-L97	729	1.01	36.19	1.68	60.31	4.54	163.38	3.01	108.24	2.58	92.73	2.00	71.85	1.62	58.18	1.78	64.23
North	U98-L98	730	1.24	44.55	2.06	74.25	4.78	172.06	3.17	114.26	2.72	98.03	2.16	77.87	1.78	64.21	2.07	74.41
North	U99-L99	731	1.39	49.90	2.31	83.16	5.22	187.78	3.48	125.21	2.99	107.49	2.46	88.45	2.05	73.91	2.59	93.27
North	U100-L100	732	1.34	48.36	2.24	80.60	4.04	145.59	2.72	97.76	2.44	87.83	2.79	100.44	2.24	80.54	3.60	129.62
North	U101-L101	733	1.47	52.89	2.45	88.14	5.52	198.74	3.66	131.69	3.18	114.34	2.61	93.95	2.23	80.29	2.84	102.37
North	U102-L102	734	1.23	44.39	2.06	73.99	4.91	176.76	3.24	116.82	2.81	101.10	2.22	80.08	1.85	66.65	2.17	78.26
North	U103-L103	735	1.03	37.14	1.72	61.89	4.66	167.73	3.07	110.65	2.65	95.54	2.05	73.77	1.67	60.26	1.84	66.32
North	U104-L104	736	1.52	54.57	2.53	90.95	7.21	259.63	4.75	171.08	4.10	147.43	3.12	112.15	2.44	87.86	2.72	97.89
North	U105-L105	737	1.22	43.95	2.03	73.26	6.50	233.94	4.27	153.76	3.67	132.23	2.73	98.44	2.05	73.95	2.38	85.77
North	U106-L106	738	1.15	41.44	1.92	69.07	5.95	214.29	3.95	142.05	3.40	122.56	2.73	98.24	1.97	70.83	2.26	81.51

Truss	Member	Rating ID	As-Inspected Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
North	U107-L107	739	1.41	50.74	2.35	84.57	6.38	229.82	4.24	152.76	3.66	131.74	3.11	112.06	2.34	84.21	2.66	95.68
North	U108-L108	740	2.34	84.39	3.91	140.65	8.65	311.23	5.74	206.67	4.96	178.56	4.32	155.43	3.67	132.15	4.24	152.66
North	U109-L109	741	4.44	159.70	7.39	266.17	16.11	579.88	10.67	384.11	9.27	333.73	8.43	303.51	9.49	341.79	12.70	457.11
North	U110-L110	742	3.02	108.65	5.03	181.09	12.13	436.81	7.94	285.73	6.82	245.41	5.06	182.13	4.28	154.17	4.59	165.30
North	U111-L111	743	1.85	66.59	3.08	110.98	10.37	373.18	6.82	245.46	5.87	211.24	4.35	156.45	3.23	116.24	3.59	129.11
North	U112-L112	744	1.43	51.34	2.38	85.57	8.84	318.24	5.81	209.05	5.00	180.09	3.66	131.81	2.69	96.75	2.96	106.38
North	U113-L113	745	2.07	74.68	3.46	124.47	13.67	492.05	8.98	323.12	7.72	277.88	5.60	201.49	4.16	149.86	4.68	168.36
North	U114-L114	746	1.92	69.21	3.20	115.36	13.29	478.56	8.73	314.38	7.51	270.18	5.42	195.00	4.01	144.53	4.36	156.83
North	U115-L115	747	1.70	61.34	2.84	102.24	12.19	438.71	8.01	288.33	6.87	247.36	4.98	179.23	3.56	128.09	3.92	141.06
North	U116-L116	748	1.29	46.39	2.15	77.31	7.96	286.56	5.24	188.60	4.50	161.99	3.31	119.04	2.39	85.88	2.63	94.85
North	U117-L117	749	1.40	50.43	2.33	84.05	7.99	287.75	5.27	189.66	4.53	163.11	3.39	121.93	2.46	88.47	2.88	103.79
North	U118-L118	750	1.77	63.89	2.96	106.49	5.24	188.69	3.56	128.09	3.22	115.79	3.71	133.72	2.96	106.68	4.80	172.86
North	U119-L119	751	3.81	137.11	6.35	228.52	14.72	529.93	9.67	347.95	8.32	299.47	6.30	226.88	6.15	221.26	7.21	259.47
North	U120-L120	752	1.89	68.11	3.15	113.51	7.76	279.34	5.09	183.37	4.38	157.78	3.28	117.99	3.01	108.37	3.11	112.13
North	U121-L121	753	1.53	55.24	2.56	92.07	7.65	275.53	5.02	180.63	4.31	155.07	3.17	114.20	2.51	90.29	2.71	97.58
North	U122-L122	754	1.63	58.74	2.72	97.90	8.87	319.26	5.81	209.17	4.99	179.46	3.64	131.00	2.76	99.41	3.07	110.66
North	U123-L123	755	1.47	53.10	2.46	88.50	8.45	304.30	5.53	199.11	4.74	170.55	3.42	123.11	2.58	92.97	2.92	105.04
North	U124-L124	756	1.77	63.80	2.95	106.34	10.53	379.07	6.89	247.93	5.89	212.22	4.21	151.61	3.10	111.53	3.37	121.37
North	U125-L125	757	1.59	57.06	2.64	95.10	9.72	350.02	6.36	228.82	5.43	195.65	3.85	138.59	2.78	100.07	3.00	108.18
North	U126-L126	758	2.68	96.66	4.47	161.09	18.00	648.13	11.76	423.51	10.04	361.56	7.00	251.83	4.88	175.64	5.21	187.49
South	U0-L1	759	1.51	54.44	2.52	90.73	6.03	217.10	4.04	145.32	3.53	127.06	2.81	100.99	2.39	85.90	2.72	97.95
South	U1-L2	760	1.57	56.40	2.61	94.00	5.80	208.83	3.90	140.43	3.41	122.82	2.81	101.23	2.43	87.55	2.79	100.28
South	U2-L3	761	1.35	48.49	2.25	80.82	4.81	173.32	3.26	117.39	2.86	102.89	2.51	90.28	2.23	80.27	2.50	90.13
South	U3-L4	762	1.89	68.11	3.15	113.52	6.50	234.05	4.46	160.54	3.94	141.81	3.86	138.80	3.36	120.86	3.88	139.59
South	U4-L5	763	1.72	62.04	2.87	103.40	6.34	228.19	4.24	152.52	3.71	133.51	3.29	118.31	2.94	105.91	3.47	124.94
South	U6-L5	764	1.37	49.18	2.28	81.97	5.11	183.87	3.40	122.33	2.96	106.54	2.46	88.72	2.11	75.84	2.48	89.44
South	U7-L6	765	1.54	55.41	2.57	92.36	6.22	224.09	4.13	148.57	3.58	128.91	2.87	103.41	2.40	86.43	2.78	100.11
South	U8-L7	766	1.54	55.55	2.57	92.58	6.88	247.61	4.55	163.79	3.94	141.75	3.07	110.60	2.54	91.57	2.78	99.93
South	U9-L8	767	1.63	58.65	2.72	97.75	7.17	258.10	4.81	173.33	4.24	152.65	3.40	122.52	2.65	95.31	2.98	107.45
South	U10-L9	768	1.72	61.75	2.86	102.92	6.84	246.36	4.60	165.56	4.05	145.93	3.79	136.43	2.67	96.16	3.32	119.50
South	U10-L11	769	1.87	67.17	3.11	111.95	7.59	273.32	5.05	181.87	4.40	158.35	3.36	120.83	2.78	100.26	3.05	109.76
South	U11-L12	770	1.49	53.56	2.48	89.27	5.93	213.50	3.96	142.39	3.44	124.00	2.66	95.88	2.24	80.73	2.45	88.17
South	U12-L13	771	1.48	53.34	2.47	88.89	5.79	208.60	3.87	139.39	3.38	121.52	2.65	95.24	2.31	83.24	2.45	88.37
South	U13-L14	772	1.24	44.49	2.06	74.15	5.13	184.63	3.44	123.78	3.01	108.31	2.41	86.65	1.94	69.80	2.20	79.27
South	U14-L15	773	1.45	52.25	2.42	87.08	7.04	253.26	4.74	170.54	4.18	150.40	3.47	124.75	2.62	94.47	3.01	108.45
South	U16-L15	774	2.01	72.44	3.35	120.74	8.05	289.71	5.35	192.58	4.66	167.62	3.87	139.40	3.19	115.00	3.94	141.67
South	U17-L16	775	1.49	53.74	2.49	89.56	5.79	208.62	3.85	138.45	3.34	120.20	2.68	96.58	2.26	81.19	2.56	92.05
South	U18-L17	776	1.46	52.71	2.44	87.85	5.91	212.88	3.92	140.95	3.39	122.11	2.67	96.11	2.29	82.36	2.44	87.92
South	U19-L18	777	1.67	60.10	2.78	100.17	6.67	240.06	4.42	159.00	3.83	137.81	3.01	108.24	2.48	89.44	2.74	98.49
South	U20-L19	778	2.78	100.09	4.63	166.82	10.79	388.43	7.15	257.33	6.19	222.96	4.87	175.28	4.05	145.67	4.45	160.31
South	U20-L21	779	2.60	93.46	4.33	155.76	9.16	329.82	6.31	227.10	5.48	197.18	5.30	190.87	4.03	145.13	4.95	178.29
South	U21-L22	780	1.49	53.56	2.48	89.27	5.72	206.08	3.96	142.52	3.43	123.58	2.91	104.91	2.40	86.22	2.75	98.99
South	U22-L23	781	1.50	54.11	2.51	90.18	5.71	205.71	3.84	138.10	3.37	121.19	2.74	98.78	2.32	83.50	2.70	97.11
South	U23-L24	782	1.39	50.17	2.32	83.62	4.99	179.59	3.38	121.59	2.96	106.41	2.58	92.94	2.24	80.78	2.59	93.35
South	U24-L25	783	1.73	62.45	2.89	104.09	5.98	215.28	4.10	147.51	3.61	129.99	3.52	126.73	2.81	101.09	3.57	128.53
South	U26-L25	784	3.03	109.18	5.05	181.97	10.36	372.99	7.07	254.39	6.34	228.22	7.33	263.74	5.20	187.13	7.94	285.74
South	U27-L26	785	0.78	28.06	1.30	46.76	2.80	100.68	1.88	67.76	1.66	59.82	1.58	56.85	1.30	46.89	1.60	57.67
South	U28-L27	786	1.22	43.80	2.03	72.99	4.49	161.53	3.00	107.87	2.62	94.38	2.30	82.87	1.96	70.59	2.31	83.21
South	U29-L28	787	1.52	54.63	2.53	91.05	5.70	205.30	3.79	136.36	3.29	118.57	2.71	97.62	2.27	81.78	2.68	96.63
South	U30-L29	788	1.60	57.53	2.66	95.88	5.98	215.41	4.06	146.01	3.61	130.01	3.05	109.74	2.48	89.44	2.90	104.54
South	U30-L31	789	1.56	56.28	2.61	93.81	6.34	228.40	4.22	152.07	3.68	132.46	2.81	101.11	2.33	83.81	2.55	91.69
South	U31-L32	790	1.67	60.26	2.79	100.43	6.71	241.52	4.47	161.08	3.89	140.11	3.01	108.20	2.53	91.15	2.76	99.51
South	U32-L33	791	1.16	41.91	1.94	69.85	4.61	166.11	3.08	111.04	2.68	96.56	2.11	75.83	1.83	65.76	1.96	70.44
South	U33-L34	792	1.62	58.24	2.70	97.07	6.25	225.17	4.19	150.98	3.66	131.91	2.94	105.67	2.45	88.06	2.77	99.70
South	U34-L35	793	2.30	82.64	3.83	137.74	8.33	299.93	5.62	202.17	4.96	178.57	4.13	148.52	3.44	123.70	4.24	152.69
South	U36-L35	794	1.41	50.88	2.36	84.80	5.29	190.33	3.52	126.60	3.06	110.26	2.55	91.81	2.18	78.65	2.62	94.50
South	U37-L36	795	1.48	53.36	2.47	88.93	5.76	207.51	3.83	137.71	3.32	119.51	2.67	96.14	2.25	81.02	2.55	91.74
South	U38-L37	796	1.58	56.81	2.63	94.69	6.47	232.79	4.28	154.15	3.71	133.57	2.93	105.31	2.48	89.28	2.67	95.96
South	U39-L38	797	1.62	58.29	2.70	97.15	6.52	234.76	4.32	155.48	3.74	134.73	2.93	105.61	2.42	87.23	2.67	95.97
South	U40-L39	798	1.74	62.78	2.91	104.63	6.90	248.27	4.57	164.61	3.97	142.78	3.13	112.68	2.60	93.67	2.87	103.17
South	U40-L41	799	1.63	58.72	2.72	97.87	6.47	232.91	4.50	162.04	3.90	140.49	3.34	120.33	2.72	98.03	3.03	109.22
South	U41-L42	800	1.64	59.17	2.74	98.62	6.90	248.29	4.60	165.55	4.01	144.47	3.13	112.85	2.60	93.64	2.96	106.67
South	U42-L43	801	1.46	52.67	2.44	87.79	5.57	200.66	3.75	134.96	3.28	118.22	2.69	96.90	2.27	81.62	2.63	94.71
South	U43-L44	802	1.37	49.21	2.28	82.02	4.89	175.87	3.31	119.10	2.89	104.09	2.52	90.89	2.17	78.17	2.48	89.40
South	U44-L45	803	1.66	59.84	2.77	99.73	5.72	206.04	3.92	141.01	3.48	125.22	3.43	123.38	2.84	102.11	3.36	120.93
South	U46-L45	804	1.50	53.96	2.50	89.93	5.38	193.52	3.62	130.20	3.19	114.96	3.13	112.51	2.51	90.51	3.25	116.97
South	U47-L46	805	1.34	48.26	2.23	80.44	4.92	177.28	3.29	118.49	2.88	103.83	2.54	91.43	2.17	78.17	2.56	92.24
South	U48-L47	806	1.49	53.78	2.49	89.63	5.81	209.30	3.87	139.24	3.37	121.36	2.82	101.52	2.37	85.43	2.79	100.27
South	U49-L48	807	0.98	35.44	1.64	59.06	4.21	151.39	2.77	99.85	2.39	86.14	1.93	69.39	1.60	57.60	1.84	66.18
South	U50-L49	808	1.57	56.55	2.62	94.25	6.64	238.87	4.44	159.68	3.89	140.17	3.26	117.28	2.87	103.37	3.03	109.03
South	U50-L51	809	1.55	55.80	2.58	92.99	7.46	268.45	4.90	176.52	4.24	152.67	3.24	116.80	2.60	93.66	2.87	103.24
South	U51-L52	810	1.58	57.00	2.64	95.01	7.65	275.44	5.04	181.27	4.35	156.50	3.34	120.40	2.83	101.96	3.03	109.04
South	U52-L53	811	1.21	43.41	2.01	72.35	5.78	208.02	3.80	136.97	3.28	118.21	2.54	91.31	2.14	77.16	2.35	84.65
South	U53-L54	812	1.52	54.64	2.53	91.07	7.00	252.15	4.62	166.21	3.99	143.61	3.11	112.07	2.61	93.81	2.83	101.75
South	U54-L55	813	1.50	53.97	2.50	89.95	6.72	241.98	4.44	159.70	3.84	138.36	3.05	109.85	2.61	93.86	2.80	100.94
South	U55-L56	814	3.89	139.99	6.48	233.31	14.88	535.63	9.84	354.22	8.54	307.51	6.95	250.29	6.12	220.27	7.09	255.29
South	U57-L56	815	1.67	60.08	2.78	100.13	7.26	261.45	4.81	173.19	4.17	149.98	3.34	120.19	2.74	98.77	3.47	124.89
South	U58-L57	816	1.50	54.00	2.50	89.99	6.75	242.87	4.46	160.49	3.85	138.74	3.02	108.82	2.55	91.89	2.84	102.17
South	U59-L58	817	1.22	44.04	2.04	73.39	5.74	206.65	3.79	136.49	3.28	117.95	2.56	92.08	2.12	76.42	2.41	86.85
South	U60-L59	818	1.41	50.78	2.35	84.64	6.84	246.12	4.51	162.37	3.90	140.27	3.01	108.35	2.54	91.37	2.74	98.61
South	U61-L60	819	1.52	54.69	2.53	91.15	7.27	261.70	4.80	172.77	4.15	149.29	3.24	116.46	2.64	95.11	2.91	104.58
South	U62-L61	820	2.21	79.42	3.68	132.36	9.92	357.00	6.56	236.08	5.67	204.28	4.51	162.20	3.71	133.51	4.10	147.54

Truss	Member	Rating ID	As-Inspected Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
South	U62-L63	821	3.24	116.47	5.39	194.12	11.96	430.43	7.89	283.93	6.90	248.31	6.72	241.89	5.09	183.26	7.21	259.71
South	U63-L64	822	1.55	55.71	2.58	92.85	6.59	237.26	4.35	156.55	3.79	136.60	3.16	113.83	2.55	91.94	2.91	104.84
South	U64-L65	823	1.43	51.51	2.38	85.85	6.10	219.72	4.04	145.26	3.46	124.70	2.74	98.78	2.25	81.16	2.59	93.12
South	U65-L66	824	1.45	52.14	2.41	86.90	5.59	201.19	3.69	132.99	3.19	114.75	2.66	95.66	2.20	79.35	2.56	92.31
South	U66-L67	825	1.26	45.32	2.10	75.53	4.70	169.11	3.10	111.56	2.69	96.74	2.37	85.48	2.01	72.38	2.34	84.36
South	U67-L68	826	2.24	80.46	3.73	134.10	8.13	292.51	5.39	194.14	4.71	169.44	4.71	169.74	3.60	129.62	4.60	165.74
South	U69-L68	827	1.64	59.15	2.74	98.59	5.90	212.49	3.96	142.61	3.44	123.97	3.32	119.56	2.75	99.15	3.50	125.86
South	U70-L69	828	1.26	45.24	2.09	75.40	4.63	166.60	3.08	111.00	2.66	95.82	2.32	83.66	2.00	71.88	2.36	85.10
South	U71-L70	829	1.44	51.94	2.40	86.56	5.42	195.03	3.59	129.42	3.10	111.77	2.56	92.22	2.15	77.53	2.55	91.81
South	U72-L71	830	1.01	36.53	1.69	60.88	4.19	150.79	2.77	99.69	2.40	86.25	1.90	68.27	1.57	56.48	1.79	64.44
South	U73-L72	831	1.49	53.70	2.49	89.51	6.20	223.36	4.11	148.08	3.58	129.05	2.96	106.60	2.44	87.82	2.70	97.06
South	U74-L73	832	3.32	119.51	5.53	199.18	12.14	436.94	8.05	289.89	7.03	252.94	6.89	248.08	5.07	182.34	6.39	230.16
South	U74-L75	833	1.74	62.78	2.91	104.64	10.32	371.44	6.80	244.65	5.80	208.96	4.27	153.67	3.07	110.56	3.36	120.88
South	U75-L76	834	1.45	52.23	2.42	87.05	8.45	304.31	5.56	200.31	4.76	171.26	3.51	126.19	2.59	93.19	2.79	100.61
South	U76-L77	835	1.51	54.50	2.52	90.84	8.83	318.04	5.81	209.15	4.97	178.90	3.67	131.97	2.77	99.62	2.95	106.07
South	U77-L78	836	1.51	54.26	2.51	90.43	8.65	311.54	5.69	204.90	4.87	175.39	3.61	130.11	2.68	96.57	2.94	105.85
South	U78-L79	837	1.70	61.36	2.84	102.27	9.40	338.51	6.19	222.88	5.29	190.60	3.94	141.90	3.01	108.24	3.25	117.01
South	U79-L80	838	1.49	53.53	2.48	89.22	7.85	282.42	5.18	186.39	4.43	159.31	3.33	119.78	2.53	91.16	2.78	100.23
South	U80-L81	839	2.28	81.98	3.80	136.63	10.92	393.06	7.21	259.59	6.17	222.03	4.69	168.85	3.73	134.45	4.12	148.42
South	U81-L82	840	2.47	88.96	4.12	148.27	9.52	342.58	6.26	225.23	5.39	193.97	4.12	148.30	3.38	121.50	3.51	126.52
South	U83-L82	841	1.56	56.14	2.60	93.57	9.09	327.41	5.99	215.62	5.17	186.04	3.94	141.93	2.74	98.70	3.39	122.00
South	U84-L83	842	2.11	76.11	3.52	126.84	12.16	437.79	8.00	288.00	6.89	248.01	5.18	186.57	3.65	131.34	4.38	157.76
South	U85-L84	843	1.41	50.67	2.35	84.44	7.89	284.15	5.19	186.88	4.47	160.86	3.34	120.15	2.50	90.10	2.72	98.01
South	U86-L85	844	1.64	59.17	2.74	98.62	9.23	332.39	6.07	218.55	5.22	188.05	3.87	139.30	2.90	104.58	3.15	113.28
South	U87-L86	845	1.64	59.01	2.73	98.34	9.46	340.66	6.22	224.07	5.36	192.84	3.96	142.65	2.92	105.08	3.17	114.26
South	U88-L87	846	1.47	53.03	2.45	88.38	8.46	304.49	5.56	200.31	4.79	172.30	3.55	127.65	2.65	95.32	2.84	102.22
South	U89-L88	847	1.89	68.20	3.16	113.67	10.41	374.87	6.86	246.91	5.90	212.34	4.41	158.60	3.27	117.70	3.58	128.98
South	U90-L89	848	2.94	105.81	4.90	176.35	11.42	411.19	7.47	268.94	6.41	230.62	4.71	169.73	4.03	144.93	4.30	154.64
South	U90-L91	849	1.93	69.55	3.22	115.91	8.10	291.43	5.30	190.84	4.56	164.00	3.42	123.28	2.85	102.54	3.11	111.87
South	U91-L92	850	4.41	158.67	7.35	264.45	15.91	572.87	10.50	377.99	9.17	330.25	8.92	321.20	9.28	334.21	10.25	369.05
South	U92-L93	851	2.66	95.65	4.43	159.41	9.67	347.97	6.38	229.69	5.56	200.15	5.31	191.28	4.42	159.03	5.25	188.91
South	U93-L94	852	1.55	55.97	2.59	93.28	6.66	239.72	4.39	158.22	3.83	137.72	3.59	129.12	2.69	96.90	3.08	110.70
South	U94-L95	853	1.46	52.58	2.43	87.64	7.46	268.60	4.93	177.51	4.25	153.13	3.27	117.84	2.46	88.66	2.86	102.82
South	U95-L96	854	1.60	57.77	2.67	96.29	7.92	285.06	5.24	188.53	4.47	161.08	3.40	122.50	2.66	95.69	2.95	106.16
South	U96-L97	855	1.54	55.43	2.57	92.39	7.03	253.08	4.65	167.34	3.98	143.40	3.09	111.35	2.50	90.05	2.77	99.79
South	U97-L98	856	1.40	50.41	2.33	84.01	5.77	207.83	3.82	137.67	3.28	118.18	2.61	94.13	2.16	77.62	2.49	89.65
South	U98-L99	857	1.43	51.61	2.39	86.02	5.43	195.33	3.61	129.78	3.10	111.54	2.56	92.13	2.14	76.95	2.64	95.21
South	U99-L100	858	2.12	76.21	3.53	127.01	7.89	284.07	5.27	189.63	4.54	163.46	3.98	143.18	3.41	122.85	4.86	175.08
South	U101-L100	859	2.63	94.63	4.38	157.72	9.71	349.70	6.47	232.83	5.65	203.31	4.95	178.35	4.54	163.43	6.45	232.20
South	U102-L101	860	1.38	49.66	2.30	82.76	5.19	186.76	3.44	123.73	2.98	107.45	2.46	88.66	2.11	76.08	2.67	96.10
South	U103-L102	861	1.52	54.58	2.53	90.96	6.02	216.63	3.98	143.17	3.44	123.96	2.74	98.49	2.28	82.25	2.66	95.73
South	U104-L103	862	1.55	55.68	2.58	92.80	6.93	249.47	4.57	164.54	3.95	142.09	3.06	110.05	2.50	90.03	2.76	99.20
South	U105-L104	863	1.55	55.69	2.58	92.81	7.55	271.62	4.96	178.72	4.28	154.03	3.25	117.11	2.55	91.89	2.84	102.11
South	U106-L105	864	1.50	54.17	2.51	90.28	7.55	271.89	5.03	181.04	4.34	156.21	3.37	121.15	2.52	90.89	2.96	106.43
South	U107-L106	865	1.59	57.33	2.65	95.55	6.87	247.48	4.57	164.44	3.96	142.72	3.65	131.47	2.85	102.65	3.22	115.87
South	U108-L107	866	1.75	62.83	2.91	104.72	6.25	224.88	4.14	149.15	3.61	129.96	3.44	123.94	2.90	104.43	3.42	123.29
South	U109-L108	867	3.55	127.84	5.92	213.07	13.65	491.40	9.00	323.98	7.73	278.12	5.87	211.26	4.62	166.42	5.12	184.46
South	U110-L109	868	2.00	71.92	3.33	119.86	8.58	309.05	5.63	202.74	4.84	174.07	3.63	130.70	2.90	104.40	3.19	114.89
South	U110-L111	869	2.41	86.69	4.01	144.49	13.35	480.75	8.78	316.09	7.56	272.20	5.67	204.10	4.10	147.78	4.44	159.82
South	U111-L112	870	1.40	50.53	2.34	84.22	8.11	292.00	5.33	191.73	4.58	164.92	3.41	122.81	2.53	91.16	2.70	97.08
South	U112-L113	871	0.92	33.01	1.53	55.01	5.36	192.83	3.51	126.42	3.02	108.76	2.24	80.68	1.68	60.63	1.76	63.43
South	U113-L114	872	1.06	38.01	1.76	63.35	6.05	217.84	3.96	142.66	3.41	122.79	2.54	91.43	1.86	66.95	2.01	72.53
South	U114-L115	873	1.34	48.40	2.24	80.67	7.65	275.37	5.01	180.31	4.31	155.27	3.23	116.43	2.45	88.24	2.70	97.36
South	U115-L116	874	1.23	44.34	2.05	73.90	7.46	268.46	4.89	175.96	4.21	151.58	3.16	113.65	2.26	81.41	2.45	88.25
South	U116-L117	875	1.88	67.71	3.13	112.85	12.94	465.90	8.50	305.88	7.30	262.78	5.49	197.72	3.65	131.34	4.49	161.54
South	U117-L118	876	1.93	69.40	3.21	115.67	12.29	442.32	8.07	290.45	6.94	249.72	5.27	189.89	3.79	136.46	4.77	171.56
South	U119-L118	877	1.92	69.05	3.20	115.08	9.72	349.92	6.38	229.80	5.49	197.58	4.21	151.44	3.57	128.41	3.69	132.90
South	U120-L119	878	3.43	123.56	5.72	205.94	13.22	475.76	8.65	311.51	7.48	269.14	5.71	205.52	4.99	179.79	5.41	194.92
South	U121-L120	879	1.51	54.21	2.51	90.34	8.08	290.76	5.32	191.44	4.58	164.83	3.45	124.13	3.09	111.25	3.02	108.87
South	U122-L121	880	1.34	48.24	2.23	80.40	7.95	286.32	5.22	188.01	4.50	161.87	3.36	121.00	2.58	92.86	2.82	101.43
South	U123-L122	881	1.38	49.80	2.31	83.01	8.41	302.73	5.53	199.03	4.76	171.52	3.57	128.44	2.69	96.67	2.94	105.70
South	U124-L123	882	1.62	58.40	2.70	97.34	9.91	356.82	6.52	234.66	5.62	202.27	4.21	151.66	3.26	117.35	3.41	122.62
South	U125-L124	883	1.55	55.67	2.58	92.78	9.27	333.56	6.10	219.66	5.26	189.43	3.97	142.83	2.95	106.16	3.19	114.78
South	U126-L125	884	1.66	59.60	2.76	99.33	9.89	356.17	6.51	234.54	5.62	202.49	4.26	153.50	3.06	110.14	3.39	121.95
North	U0-L1	885	1.50	54.12	2.51	90.20	6.02	216.81	4.03	145.13	3.52	126.89	2.80	100.86	2.38	85.80	2.72	97.84
North	U1-L2	886	1.55	55.87	2.59	93.12	5.79	208.50	3.89	140.20	3.41	122.62	2.81	101.07	2.43	87.42	2.78	100.13
North	U2-L3	887	1.34	48.38	2.24	80.63	4.80	172.91	3.25	117.11	2.85	102.64	2.50	90.06	2.22	80.08	2.50	89.92
North	U3-L4	888	1.89	68.00	3.15	113.34	6.49	233.68	4.45	160.28	3.93	141.59	3.85	138.57	3.35	120.67	3.87	139.37
North	U4-L5	889	1.72	62.00	2.87	103.34	6.33	228.04	4.23	152.42	3.71	133.43	3.28	118.24	2.94	105.84	3.47	124.88
North	U6-L5	890	1.48	53.27	2.47	88.78	5.53	199.17	3.68	132.51	3.21	115.40	2.67	96.09	2.28	82.15	2.69	96.89
North	U7-L6	891	1.52	54.89	2.54	91.48	6.21	223.56	4.12	148.22	3.57	128.61	2.87	103.17	2.40	86.23	2.77	99.88
North	U8-L7	892	1.65	59.22	2.74	98.70	7.37	265.31	4.88	175.50	4.22	151.89	3.29	118.52	2.73	98.12	2.97	107.08
North	U9-L8	893	1.62	58.30	2.70	97.16	7.16	257.58	4.81	172.98	4.23	152.34	3.40	122.27	2.64	95.12	2.98	107.24
North	U10-L9	894	1.67	60.26	2.79	100.44	6.82	245.68	4.59	165.10	4.04	145.52	3.78	136.05	2.66	95.89	3.31	119.16
North	U10-L11	895	1.65	59.55	2.76	99.24	7.55	271.93	5.03	180.94	4.38	157.54	3.34	120.19	2.77	99.71	3.03	109.15
North	U11-L12	896	1.34	48.31	2.24	80.52	5.90	212.55	3.94	141.75	3.43	123.44	2.65	95.43	2.23	80.33	2.44	87.74
North	U12-L13	897	1.31	47.17	2.18	78.62	5.57	200.38	3.72	133.89	3.24	116.72	2.54	91.47	2.22	79.92	2.36	84.86
North	U13-L14	898	1.16	41.92	1.94	69.87	5.10	183.70	3.42	123.15	2.99	107.76	2.39	86.18	1.93	69.42	2.19	78.83
North	U14-L15	899	1.44	51.72	2.39	86.21	7.02	252.59	4.72	170.08	4.17	149.99	3.46	124.40	2.62	94.21	3.00	108.15
North	U16-L15	900	1.88	67.78	3.14	112.97	8.04	289.44	5.34	192.40	4.65	167.46	3.87	139.27	3.19	114.88	3.93	141.51
North	U17-L16	901	1.35	48.74	2.26	81.23	5.77	207.81	3.83	137.91	3.33	119.73	2.67	96.19	2.25	80.84	2.55	91.65
North	U18-L17	902	1.27	45.72	2.12	76.20	5.59	201.26	3.70	133.25	3.21	115.45	2.52	90.85	2.16	77.83	2.31	83.09

Truss	Member	Rating ID	As-Inspected Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
North	U19-L18	903	1.55	55.93	2.59	93.22	6.64	238.91	4.40	158.24	3.81	137.14	2.99	107.70	2.47	88.97	2.72	97.98
North	U20-L19	904	2.62	94.31	4.37	157.19	10.74	386.57	7.11	256.09	6.16	221.88	4.84	174.38	4.02	144.88	4.43	159.43
North	U20-L21	905	2.54	91.36	4.23	152.26	9.14	329.08	6.29	226.59	5.46	196.73	5.29	190.46	4.02	144.77	4.94	177.86
North	U21-L22	906	1.48	53.18	2.46	88.63	5.71	205.74	3.95	142.27	3.43	123.37	2.91	104.72	2.39	86.07	2.74	98.81
North	U22-L23	907	1.49	53.51	2.48	89.19	5.71	205.40	3.83	137.89	3.36	121.01	2.74	98.64	2.32	83.39	2.69	97.01
North	U23-L24	908	1.39	50.11	2.32	83.51	4.98	179.34	3.37	121.43	2.95	106.27	2.58	92.82	2.24	80.69	2.59	93.19
North	U24-L25	909	1.73	62.44	2.89	104.07	5.98	215.22	4.10	147.47	3.61	129.96	3.52	126.71	2.81	101.12	3.57	128.56
North	U26-L25	910	3.03	109.11	5.05	181.85	10.35	372.74	7.06	254.23	6.34	228.07	7.32	263.56	5.20	187.04	7.92	285.30
North	U27-L26	911	1.26	45.34	2.10	75.56	4.52	162.69	3.04	109.49	2.69	96.68	2.55	91.87	2.10	75.77	2.59	93.20
North	U28-L27	912	1.21	43.70	2.02	72.84	4.48	161.20	2.99	107.65	2.62	94.18	2.30	82.70	1.96	70.45	2.31	83.04
North	U29-L28	913	0.80	28.76	1.33	47.93	3.00	108.08	1.99	71.78	1.73	62.42	1.43	51.39	1.20	43.05	1.41	50.87
North	U30-L29	914	1.58	56.84	2.63	94.74	5.98	215.13	4.05	145.82	3.61	129.84	3.04	109.61	2.48	89.31	2.90	104.37
North	U30-L31	915	1.35	48.48	2.24	80.80	6.18	222.53	4.12	148.15	3.58	129.02	2.73	98.40	2.26	81.40	2.47	89.07
North	U31-L32	916	1.47	52.93	2.45	88.21	6.55	235.85	4.37	157.26	3.80	136.78	2.93	105.48	2.46	88.68	2.69	96.82
North	U32-L33	917	1.26	45.21	2.09	75.35	5.45	196.03	3.64	130.99	3.16	113.90	2.48	89.25	2.14	77.21	2.30	82.70
North	U33-L34	918	1.45	52.17	2.42	86.96	5.96	214.61	4.00	143.83	3.49	125.63	2.79	100.32	2.32	83.53	2.62	94.43
North	U34-L35	919	2.16	77.70	3.60	129.50	7.85	282.63	5.29	190.36	4.67	167.98	3.86	139.09	3.22	115.83	3.95	142.29
North	U36-L35	920	1.34	48.40	2.24	80.67	5.48	197.42	3.65	131.33	3.18	114.39	2.65	95.27	2.25	81.17	2.72	97.97
North	U37-L36	921	1.35	48.52	2.25	80.86	5.81	209.13	3.86	138.80	3.35	120.47	2.69	96.97	2.27	81.54	2.57	92.40
North	U38-L37	922	1.17	42.08	1.95	70.13	5.16	185.81	3.42	123.04	2.96	106.60	2.33	84.04	1.98	71.12	2.13	76.51
North	U39-L38	923	1.48	53.43	2.47	89.05	6.35	228.52	4.20	151.34	3.64	131.14	2.85	102.74	2.35	84.71	2.59	93.24
North	U40-L39	924	1.62	58.44	2.71	97.40	6.64	239.03	4.40	158.47	3.82	137.44	3.01	108.31	2.50	89.86	2.75	98.99
North	U40-L41	925	0.76	27.42	1.27	45.69	3.04	109.61	2.12	76.26	1.84	66.10	1.57	56.44	1.28	46.11	1.42	51.15
North	U41-L42	926	1.13	40.80	1.89	68.00	4.80	172.88	3.20	115.21	2.79	100.47	2.17	78.26	1.81	65.16	2.06	74.10
North	U42-L43	927	1.01	36.42	1.69	60.70	3.96	142.68	2.66	95.86	2.33	84.00	1.92	68.97	1.61	57.96	1.86	66.95
North	U43-L44	928	1.34	48.18	2.23	80.31	4.79	172.28	3.24	116.65	2.83	101.89	2.46	88.74	2.11	76.10	2.44	88.01
North	U44-L45	929	1.51	54.42	2.52	90.70	5.21	187.42	3.57	128.35	3.16	113.63	3.06	110.26	2.60	93.56	3.04	109.59
North	U46-L45	930	1.37	49.25	2.28	82.09	4.91	176.93	3.30	118.93	2.91	104.94	2.86	102.80	2.28	82.13	2.97	106.83
North	U47-L46	931	1.20	43.23	2.00	72.04	4.43	159.48	2.96	106.41	2.59	93.08	2.27	81.76	1.94	69.99	2.29	82.29
North	U48-L47	932	1.36	48.80	2.26	81.33	5.10	183.49	3.38	121.74	2.94	105.82	2.43	87.35	2.05	73.66	2.37	85.33
North	U49-L48	933	1.12	40.18	1.86	66.96	4.52	162.59	2.99	107.48	2.58	92.96	2.03	72.91	1.68	60.39	1.92	69.17
North	U50-L49	934	2.60	93.75	4.34	156.25	9.99	359.49	6.66	239.88	5.89	211.91	5.19	186.78	4.13	148.85	4.65	167.56
North	U50-L51	935	1.44	51.97	2.41	86.61	7.48	269.31	4.93	177.31	4.24	152.48	3.13	112.57	2.47	88.89	2.65	95.58
North	U51-L52	936	1.09	39.16	1.81	65.27	5.31	191.33	3.50	126.01	3.01	108.46	2.25	80.99	1.88	67.53	1.97	70.83
North	U52-L53	937	0.64	23.03	1.07	38.39	3.10	111.54	2.04	73.51	1.76	63.33	1.33	47.71	1.10	39.62	1.18	42.65
North	U53-L54	938	1.05	37.66	1.74	62.77	4.83	173.78	3.19	114.66	2.75	98.94	2.10	75.73	1.72	61.96	1.90	68.26
North	U54-L55	939	1.36	48.98	2.27	81.64	5.93	213.33	3.92	141.03	3.38	121.83	2.64	94.93	2.25	80.86	2.40	86.34
North	U55-L56	940	1.75	63.10	2.92	105.17	6.59	237.42	4.37	157.30	3.79	136.46	3.04	109.57	2.65	95.35	3.04	109.48
North	U57-L56	941	1.16	41.81	1.94	69.69	4.58	164.76	3.03	108.92	2.61	94.07	2.10	75.62	1.80	64.67	2.15	77.40
North	U58-L57	942	0.92	33.06	1.53	55.10	4.21	151.44	2.77	99.70	2.39	85.97	1.86	66.86	1.56	56.14	1.69	60.86
North	U59-L58	943	1.02	36.76	1.70	61.27	4.87	175.17	3.20	115.17	2.75	99.15	2.11	75.82	1.71	61.73	1.93	69.42
North	U60-L59	944	1.25	45.03	2.08	75.05	5.97	214.96	3.92	141.23	3.37	121.47	2.55	91.75	2.09	75.26	2.28	82.16
North	U61-L60	945	1.59	57.20	2.65	95.34	7.19	259.01	4.73	170.28	4.07	146.53	3.07	110.63	2.53	90.99	2.69	96.76
North	U62-L61	946	1.59	57.14	2.65	95.23	6.94	249.99	4.56	164.31	3.93	141.39	2.96	106.70	2.38	85.68	2.56	92.10
North	U62-L63	947	1.94	69.82	3.23	116.37	7.51	270.30	4.97	179.02	4.35	156.58	4.31	155.04	3.21	115.73	4.52	162.76
North	U63-L64	948	1.51	54.32	2.51	90.53	6.47	233.06	4.28	154.13	3.74	134.61	3.11	112.02	2.52	90.66	2.84	102.11
North	U64-L65	949	1.19	42.68	1.98	71.13	5.03	180.90	3.33	119.83	2.86	102.85	2.26	81.27	1.86	66.95	2.12	76.49
North	U65-L66	950	1.28	46.24	2.14	77.07	5.49	197.78	3.64	131.01	3.14	113.15	2.61	94.13	2.17	78.19	2.52	90.65
North	U66-L67	951	1.28	45.98	2.13	76.64	4.78	172.19	3.17	114.20	2.75	98.91	2.42	87.21	2.05	73.97	2.39	86.04
North	U67-L68	952	2.20	79.38	3.67	132.30	7.93	285.42	5.30	190.93	4.62	166.41	4.61	165.88	3.55	127.86	4.48	161.19
North	U69-L68	953	1.68	60.32	2.79	100.54	6.01	216.37	4.04	145.34	3.50	125.97	3.38	121.82	2.81	101.31	3.57	128.65
North	U70-L69	954	1.27	45.71	2.12	76.19	4.67	168.20	3.10	111.73	2.68	96.60	2.34	84.40	2.01	72.48	2.38	85.74
North	U71-L70	955	1.41	50.62	2.34	84.37	5.44	195.85	3.61	130.07	3.11	112.09	2.57	92.56	2.15	77.56	2.49	89.77
North	U72-L71	956	1.07	38.52	1.78	64.20	4.41	158.73	2.92	105.02	2.52	90.67	1.99	71.81	1.65	59.42	1.89	67.88
North	U73-L72	957	1.46	52.39	2.43	87.32	6.24	224.66	4.12	148.47	3.60	129.59	2.97	106.95	2.44	87.71	2.71	97.48
North	U74-L73	958	3.22	115.84	5.36	193.07	12.16	437.70	8.03	289.07	7.02	252.88	6.87	247.47	5.05	181.74	6.39	230.08
North	U74-L75	959	1.53	55.10	2.55	91.84	10.09	363.11	6.65	239.33	5.69	204.73	4.17	150.05	2.99	107.64	3.27	117.66
North	U75-L76	960	1.31	47.09	2.18	78.49	8.41	302.89	5.55	199.69	4.75	170.85	3.49	125.49	2.58	92.82	2.77	99.79
North	U76-L77	961	1.37	49.42	2.29	82.37	8.79	316.56	5.79	208.62	4.96	178.55	3.65	131.24	2.74	98.69	2.93	105.34
North	U77-L78	962	1.37	49.27	2.28	82.12	8.58	308.74	5.65	203.53	4.84	174.29	3.58	128.81	2.66	95.74	2.91	104.64
North	U78-L79	963	1.31	47.16	2.18	78.60	7.90	284.42	5.22	187.75	4.46	160.69	3.31	119.14	2.52	90.63	2.73	98.40
North	U79-L80	964	1.10	39.49	1.83	65.82	6.18	222.34	4.08	146.97	3.50	125.91	2.62	94.23	1.99	71.68	2.19	78.90
North	U80-L81	965	2.21	79.69	3.69	132.81	10.81	389.04	7.14	256.87	6.13	220.61	4.64	166.91	3.69	132.71	4.08	146.71
North	U81-L82	966	2.44	87.83	4.07	146.39	9.39	337.94	6.17	222.29	5.32	191.60	4.07	146.52	3.32	119.38	3.47	125.06
North	U83-L82	967	1.50	53.97	2.50	89.95	9.16	329.81	6.04	217.39	5.21	187.63	3.98	143.17	2.76	99.44	3.45	124.20
North	U84-L83	968	1.83	66.03	3.06	110.05	11.70	421.26	7.70	277.36	6.63	238.82	4.99	179.53	3.54	127.38	4.19	150.92
North	U85-L84	969	1.27	45.86	2.12	76.43	8.06	290.06	5.30	190.90	4.56	164.29	3.40	122.56	2.57	92.42	2.78	99.98
North	U86-L85	970	1.48	53.14	2.46	88.57	9.21	331.39	6.06	217.98	5.21	187.46	3.85	138.66	2.89	104.17	3.12	112.32
North	U87-L86	971	1.44	51.79	2.40	86.32	8.89	320.06	5.85	210.59	5.03	181.10	3.72	133.76	2.72	98.09	2.97	106.77
North	U88-L87	972	1.39	49.89	2.31	83.15	8.16	293.72	5.37	193.30	4.61	166.10	3.42	122.94	2.54	91.39	2.72	98.05
North	U89-L88	973	1.83	65.96	3.05	109.93	10.30	370.87	6.79	244.35	5.83	209.88	4.35	156.66	3.21	115.61	3.52	126.84
North	U90-L89	974	2.85	102.47	4.74	170.78	11.06	398.03	7.24	260.59	6.20	223.33	4.57	164.48	3.92	141.07	4.17	150.27
North	U90-L91	975	1.72	61.80	2.86	103.00	7.75	279.04	5.08	182.97	4.37	157.18	3.28	118.17	2.71	97.44	2.98	107.21
North	U91-L92	976	4.28	153.98	7.13	256.64	15.36	552.81	10.16	365.64	8.88	319.80	8.66	311.78	8.70	313.31	9.66	347.77
North	U92-L93	977	2.61	93.93	4.35	156.55	9.45	340.15	6.25	225.03	5.45	196.30	5.21	187.50	4.36	157.04	5.11	184.08
North	U93-L94	978	1.60	57.70	2.67	96.17	6.74	242.78	4.46	160.59	3.89	139.95	3.64	131.16	2.70	97.30	3.12	112.43
North	U94-L95	979	1.44	52.00	2.41	86.66	7.53	271.00	4.98	179.46	4.30	154.96	3.30	118.92	2.49	89.78	2.89	104.13
North	U95-L96	980	1.39	50.17	2.32	83.61	8.00	288.05	5.29	190.49	4.53	163.03	3.44	123.73	2.69	96.76	2.98	107.46
North	U96-L97	981	1.60	57.69	2.67	96.15	7.23	260.45	4.79	172.55	4.11	147.82	3.18	114.54	2.58	92.75	2.84	102.40
North	U97-L98	982	1.52	54.79	2.54	91.32	5.89	212.11	3.91	140.82	3.36	120.84	2.67	96.00	2.20	79.16	2.55	91.66
North	U98-L99	983	1.57	56.53	2.62	94.21	5.91	212.78	3.94	141.80	3.38	121.79	2.78	100.25	2.33	83.78	2.92	105.21
North	U99-L100	984	2.38	85.57	3.96	142.62	8.80	316.77	5.90	212.35	5.08	182.81	4.43	159.43	3.89	140.15	5.60	201.60

Truss	Member	Rating ID	As-Inspected Truss Load Rating Summary															
			HS-20 Truck and Lane				2F-1		3F-1		4F-1		5C-1		Truck Train HS-20		Truck Train 5C-1	
			Inventory		Operating		Operating		Operating		Operating		Operating		Operating		Operating	
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
North	U101-L100	985	2.44	87.99	4.07	146.66	9.03	325.09	6.01	216.35	5.24	188.81	4.57	164.47	4.10	147.46	5.94	213.86
North	U102-L101	986	1.36	49.00	2.27	81.67	5.12	184.19	3.39	122.03	2.94	105.96	2.42	86.98	2.06	74.26	2.61	94.07
North	U103-L102	987	1.53	55.01	2.55	91.68	6.11	219.83	4.04	145.28	3.49	125.73	2.77	99.56	2.30	82.83	2.70	97.14
North	U104-L103	988	1.59	57.14	2.65	95.23	7.17	258.10	4.73	170.26	4.08	147.02	3.15	113.52	2.58	92.72	2.83	102.04
North	U105-L104	989	2.82	101.67	4.71	169.45	13.65	491.53	8.99	323.79	7.75	278.92	5.88	211.83	4.61	165.79	5.14	184.95
North	U106-L105	990	2.68	96.44	4.46	160.73	13.52	486.84	8.99	323.73	7.75	279.18	5.99	215.81	4.50	161.96	5.27	189.67
North	U107-L106	991	2.62	94.22	4.36	157.03	11.70	421.37	7.76	279.25	6.73	242.46	6.12	220.22	4.32	155.67	5.23	188.21
North	U108-L107	992	2.66	95.85	4.44	159.74	9.59	345.33	6.35	228.44	5.53	199.12	5.21	187.50	4.35	156.52	5.08	182.95
North	U109-L108	993	5.28	190.08	8.80	316.81	20.28	730.12	13.38	481.58	11.47	413.08	8.73	314.18	6.88	247.70	7.64	275.18
North	U110-L109	994	2.93	105.57	4.89	175.94	12.52	450.89	8.21	295.41	7.05	253.78	5.29	190.32	4.26	153.30	4.69	168.75
North	U110-L111	995	3.72	133.97	6.20	223.28	16.88	607.74	11.04	397.46	9.47	340.82	6.97	250.89	5.92	213.22	6.32	227.43
North	U111-L112	996	2.21	79.40	3.68	132.33	12.09	435.08	7.94	285.96	6.84	246.24	5.07	182.70	3.79	136.36	4.18	150.36
North	U112-L113	997	1.27	45.66	2.11	76.09	7.66	275.64	5.03	181.15	4.33	156.01	3.18	114.34	2.38	85.56	2.67	95.98
North	U113-L114	998	1.27	45.68	2.11	76.13	7.95	286.17	5.22	188.09	4.50	161.84	3.28	118.03	2.43	87.59	2.72	98.03
North	U114-L115	999	1.42	51.03	2.36	85.05	9.23	332.31	6.07	218.45	5.21	187.72	3.80	136.89	2.89	104.00	3.11	112.07
North	U115-L116	1000	1.35	48.61	2.25	81.01	8.76	315.35	5.77	207.56	4.96	178.40	3.65	131.41	2.78	100.01	3.02	108.60
North	U116-L117	1001	2.08	74.91	3.47	124.85	11.71	421.69	7.72	277.92	6.64	239.11	4.97	178.84	3.64	130.93	4.26	153.36
North	U117-L118	1002	2.33	83.70	3.88	139.50	11.44	411.85	7.56	272.00	6.52	234.55	4.98	179.41	3.82	137.66	4.60	165.65
North	U119-L118	1003	2.61	93.88	4.35	156.46	10.07	362.42	6.66	239.76	5.75	207.08	4.48	161.20	3.79	136.51	4.07	146.38
North	U120-L119	1004	3.51	126.25	5.84	210.42	13.27	477.62	8.79	316.54	7.60	273.74	5.97	214.97	5.38	193.71	5.97	215.00
North	U121-L120	1005	1.53	54.91	2.54	91.52	6.85	246.60	4.50	161.98	3.87	139.31	2.90	104.29	2.52	90.78	2.64	95.13
North	U122-L121	1006	1.43	51.32	2.38	85.53	7.37	265.16	4.83	173.92	4.15	149.32	3.06	110.11	2.37	85.43	2.57	92.52
North	U123-L122	1007	1.54	55.28	2.56	92.14	8.41	302.81	5.51	198.49	4.73	170.29	3.46	124.52	2.60	93.77	2.90	104.25
North	U124-L123	1008	1.95	70.14	3.25	116.91	11.13	400.50	7.28	262.14	6.24	224.59	4.50	162.13	3.39	122.18	3.81	137.07
North	U125-L124	1009	1.87	67.37	3.12	112.29	10.90	392.26	7.13	256.64	6.10	219.73	4.37	157.30	3.22	115.78	3.50	126.03
North	U126-L125	1010	2.16	77.75	3.60	129.59	13.75	494.85	8.99	323.57	7.69	276.69	5.45	196.23	3.92	141.11	4.26	153.34
			Controlling Members															
			Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons	Rating	Tons
			0.64	22.91	1.06	38.19	2.54	91.56	1.68	60.56	1.46	52.39	1.14	41.08	0.95	34.02	1.08	39.00
			Truss	Member	Truss	Member	Truss	Member	Truss	Member	Truss	Member	Truss	Member	Truss	Member	Truss	Member
			North	U48-L48	North	U48-L48	North	U48-L48	North	U48-L48	North	U48-L48	North	U48-L48	North	U48-L48	North	U48-L48

As-Inspected Fatigue Summary

Made By: DWC Date: 3/30/2012 Job No.: P402110046

Checked By: ADK Date: 3/30/2012 Sheet No.:

CUY-2-1441 Main Truss Spans - As-Inspected Fatigue Summary

Redundant? No → f = 1.0 (Calculate SAFE Life per ODOT BDM 402.2.6)

R_s = 1.75

Present ADTT* (T_P) = 160 → T_N = 361 (Future ADTT, assuming growth rate of 1%/year)

Weight Ratios = 1.0 (W_P/W, W_N/W equal to unity per ODOT BDM 402.2.6)

Impact** = 1.15 (Per ODOT BDM 402.2.6)

Y_P = 74 (Present age of the bridge in years)

$Y_{f,MIN}$ = 51 years

* Based on surveyed 2010 ADTT value of 400, multiplied by F_L of 0.4 for 6 lanes of two-way traffic

** Impact is applied in calculation of stress range, Sr. Do not include in service moment range.

Truss	Member	Rating ID	Service Force Range	Gross Area (in^2)	S_r (ksi)	Cat.	K (Detail Constant)	C (cycles per truck passage)	Y_1 (years)	Y_N (years)	Y_f (years)
South	L0-L1	1	48.27 k	42.19	1.32	D	6	1.00	3073	1361	**1329**
South	L1-L2	2	43.40 k	42.42	1.18	D	6	1.00	4295	1903	**1870**
South	L2-L3	3	62.78 k	59.73	1.21	D	6	1.00	3963	1756	**1723**
South	L3-L4	4	88.37 k	84.78	1.20	D	6	1.00	4063	1800	**1767**
South	L4-L5	5	104.40 k	96.50	1.24	D	6	1.00	3633	1609	**1577**
South	L5-L6	6	55.40 k	44.03	1.45	D	6	1.00	2310	1024	**991**
South	L6-L7	7	0.00 k	42.11	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L7-L8	8	44.70 k	46.11	1.11	D	6	1.00	5049	2237	**2204**
South	L8-L9	9	68.26 k	75.80	1.04	D	6	1.00	6299	2790	**2758**
South	L9-L10	10	77.88 k	99.44	0.90	D	6	1.00	9578	4243	**4210**
South	L10-L11	11	78.36 k	99.75	0.90	D	6	1.00	9490	4204	**4171**
South	L11-L12	12	100.29 k	96.50	1.20	D	6	1.00	4098	1815	**1783**
South	L12-L13	13	134.89 k	90.05	1.72	D	6	1.00	1369	606	**573**
South	L13-L14	14	161.13 k	90.05	2.06	D	6	1.00	803	356	**323**
South	L14-L15	15	170.62 k	93.25	2.10	D	6	1.00	751	333	**300**
South	L15-L16	16	127.66 k	90.00	1.63	D	6	1.00	1612	714	**681**
South	L16-L17	17	106.15 k	73.28	1.67	D	6	1.00	1514	670	**638**
South	L17-L18	18	99.22 k	63.30	1.80	D	6	1.00	1194	529	**496**
South	L18-L19	19	92.18 k	64.55	1.64	D	6	1.00	1579	700	**667**
South	L19-L20	20	85.60 k	67.80	1.45	D	6	1.00	2286	1013	**980**
South	L20-L21	21	84.99 k	67.06	1.46	D	6	1.00	2261	1001	**969**
South	L21-L22	22	69.87 k	58.25	1.38	D	6	1.00	2665	1181	**1148**
South	L22-L23	23	42.68 k	45.67	1.07	D	6	1.00	5637	2497	**2464**
South	L23-L24	24	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L24-L25	25	45.62 k	42.42	1.24	D	6	1.00	3700	1639	**1606**
South	L25-L26	26	63.59 k	44.05	1.66	D	6	1.00	1529	677	**645**
South	L26-L27	27	36.84 k	42.42	1.00	D	6	1.00	7028	3113	**3080**
South	L27-L28	28	0.00 k	37.28	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L28-L29	29	30.95 k	37.36	0.95	D	6	1.00	8091	3584	**3551**
South	L29-L30	30	47.32 k	45.48	1.20	D	6	1.00	4086	1810	**1777**
South	L30-L31	31	47.74 k	48.92	1.12	D	6	1.00	4952	2194	**2161**
South	L31-L32	32	64.42 k	45.67	1.62	D	6	1.00	1640	726	**694**
South	L32-L33	33	93.62 k	45.13	2.39	D	6	1.00	515	228	**195**
South	L33-L34	34	121.06 k	62.77	2.22	D	6	1.00	641	284	**251**
South	L34-L35	35	135.87 k	105.80	1.48	D	6	1.00	2172	962	**929**
South	L35-L36	36	98.39 k	105.80	1.07	D	6	1.00	5720	2534	**2501**
South	L36-L37	37	72.19 k	57.57	1.44	D	6	1.00	2334	1034	**1001**
South	L37-L38	38	67.94 k	45.67	1.71	D	6	1.00	1398	619	**586**
South	L38-L39	39	64.92 k	42.73	1.75	D	6	1.00	1312	581	**548**
South	L39-L40	40	64.97 k	48.92	1.53	D	6	1.00	1965	870	**838**
South	L40-L41	41	49.38 k	48.30	1.18	D	6	1.00	4306	1907	**1875**
South	L41-L42	42	29.68 k	44.17	0.77	D	6	1.00	15172	6721	**6688**

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South	L42-L43	43	0.00 k	40.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L43-L44	44	34.88 k	42.42	0.95	D	6	1.00	8280	3668	**3635**
South	L44-L45	45	67.60 k	52.56	1.48	D	6	1.00	2162	958	**925**
South	L45-L46	46	65.34 k	52.56	1.43	D	6	1.00	2395	1061	**1028**
South	L46-L47	47	33.13 k	42.42	0.90	D	6	1.00	9663	4281	**4248**
South	L47-L48	48	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L48-L49	49	25.68 k	37.92	0.78	D	6	1.00	14810	6561	**6528**
South	L49-L50	50	39.57 k	46.44	0.98	D	6	1.00	7438	3295	**3262**
South	L50-L51	51	37.51 k	45.91	0.94	D	6	1.00	8433	3736	**3703**
South	L51-L52	52	49.87 k	45.67	1.26	D	6	1.00	3534	1565	**1533**
South	L52-L53	53	71.45 k	45.67	1.80	D	6	1.00	1202	532	**500**
South	L53-L54	54	93.05 k	53.05	2.02	D	6	1.00	853	378	**345**
South	L54-L55	55	112.82 k	72.42	1.79	D	6	1.00	1217	539	**506**
South	L55-L56	56	123.70 k	140.80	1.01	D	6	1.00	6784	3005	**2973**
South	L56-L57	57	107.86 k	128.80	0.96	D	6	1.00	7834	3470	**3438**
South	L57-L58	58	82.45 k	71.26	1.33	D	6	1.00	2970	1316	**1283**
South	L58-L59	59	77.28 k	48.86	1.82	D	6	1.00	1163	515	**482**
South	L59-L60	60	74.57 k	50.80	1.69	D	6	1.00	1454	644	**611**
South	L60-L61	61	73.05 k	57.11	1.47	D	6	1.00	2199	974	**941**
South	L61-L62	62	76.56 k	64.23	1.37	D	6	1.00	2717	1204	**1171**
South	L62-L63	63	69.03 k	63.45	1.25	D	6	1.00	3574	1583	**1550**
South	L63-L64	64	52.82 k	45.98	1.32	D	6	1.00	3035	1345	**1312**
South	L64-L65	65	31.60 k	44.92	0.81	D	6	1.00	13221	5857	**5824**
South	L65-L66	66	0.00 k	41.17	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L66-L67	67	36.33 k	42.42	0.98	D	6	1.00	7327	3246	**3213**
South	L67-L68	68	64.91 k	49.00	1.52	D	6	1.00	1979	877	**844**
South	L68-L69	69	64.26 k	49.00	1.51	D	6	1.00	2040	904	**871**
South	L69-L70	70	34.83 k	42.42	0.94	D	6	1.00	8316	3684	**3651**
South	L70-L71	71	0.00 k	36.55	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L71-L72	72	28.74 k	40.55	0.82	D	6	1.00	12922	5724	**5692**
South	L72-L73	73	48.27 k	56.17	0.99	D	6	1.00	7251	3212	**3179**
South	L73-L74	74	58.14 k	62.53	1.07	D	6	1.00	5724	2536	**2503**
South	L74-L75	75	57.77 k	63.55	1.05	D	6	1.00	6123	2713	**2680**
South	L75-L76	76	68.03 k	54.61	1.43	D	6	1.00	2380	1054	**1022**
South	L76-L77	77	94.24 k	56.92	1.90	D	6	1.00	1014	449	**416**
South	L77-L78	78	123.40 k	64.80	2.19	D	6	1.00	666	295	**262**
South	L78-L79	79	154.93 k	104.64	1.70	D	6	1.00	1418	628	**595**
South	L79-L80	80	178.92 k	129.63	1.59	D	6	1.00	1749	775	**742**
South	L80-L81	81	190.69 k	167.48	1.31	D	6	1.00	3117	1381	**1348**
South	L81-L82	82	186.22 k	182.70	1.17	D	6	1.00	4345	1925	**1892**
South	L82-L83	83	188.49 k	176.13	1.23	D	6	1.00	3754	1663	**1630**
South	L83-L84	84	173.67 k	136.00	1.47	D	6	1.00	2209	979	**946**
South	L84-L85	85	158.67 k	125.00	1.46	D	6	1.00	2249	996	**964**
South	L85-L86	86	152.48 k	133.13	1.32	D	6	1.00	3061	1356	**1323**
South	L86-L87	87	142.12 k	142.08	1.15	D	6	1.00	4597	2036	**2004**
South	L87-L88	88	131.82 k	147.13	1.03	D	6	1.00	6397	2834	**2801**
South	L88-L89	89	124.88 k	171.88	0.84	D	6	1.00	11994	5313	**5281**
South	L89-L90	90	123.07 k	193.38	0.73	D	6	1.00	17849	7907	**7874**
South	L90-L91	91	142.36 k	244.48	0.67	D	6	1.00	23301	10322	**10290**
South	L91-L92	92	132.36 k	202.48	0.75	D	6	1.00	16470	7296	**7263**
South	L92-L93	93	127.22 k	151.38	0.97	D	6	1.00	7750	3433	**3401**
South	L93-L94	94	118.63 k	127.50	1.07	D	6	1.00	5712	2530	**2498**
South	L94-L95	95	98.71 k	84.84	1.34	D	6	1.00	2922	1294	**1262**
South	L95-L96	96	56.94 k	76.05	0.86	D	6	1.00	10958	4854	**4821**
South	L96-L97	97	0.00 k	31.92	0.00	D	6	1.00	n/a	n/a	**n/a**

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South	L97-L98	98	55.85 k	47.05	1.37	D	6	1.00	2751	1218	**1186**
South	L98-L99	99	97.81 k	85.28	1.32	D	6	1.00	3049	1351	**1318**
South	L99-L100	100	122.74 k	110.42	1.28	D	6	1.00	3350	1484	**1451**
South	L100-L101	101	126.30 k	114.17	1.27	D	6	1.00	3399	1506	**1473**
South	L101-L102	102	102.82 k	89.03	1.33	D	6	1.00	2987	1323	**1290**
South	L102-L103	103	60.10 k	52.92	1.31	D	6	1.00	3142	1392	**1359**
South	L103-L104	104	0.00 k	37.92	0.00	D	6	1.00	n/a	n/a	**n/a**
South	L104-L105	105	61.79 k	59.92	1.19	D	6	1.00	4196	1859	**1826**
South	L105-L106	106	105.04 k	109.50	1.10	D	6	1.00	5213	2309	**2276**
South	L106-L107	107	128.12 k	144.48	1.02	D	6	1.00	6598	2923	**2890**
South	L107-L108	108	138.02 k	163.73	0.97	D	6	1.00	7680	3402	**3370**
South	L108-L109	109	144.55 k	177.75	0.94	D	6	1.00	8555	3790	**3757**
South	L109-L110	110	148.27 k	197.13	0.86	D	6	1.00	10811	4789	**4757**
South	L110-L111	111	133.24 k	204.13	0.75	D	6	1.00	16542	7328	**7295**
South	L111-L112	112	135.13 k	166.92	0.93	D	6	1.00	8672	3842	**3809**
South	L112-L113	113	141.61 k	155.13	1.05	D	6	1.00	6047	2679	**2646**
South	L113-L114	114	149.97 k	138.63	1.24	D	6	1.00	3634	1610	**1577**
South	L114-L115	115	154.83 k	127.81	1.39	D	6	1.00	2588	1147	**1114**
South	L115-L116	116	151.92 k	109.23	1.60	D	6	1.00	1710	758	**725**
South	L116-L117	117	151.04 k	114.48	1.52	D	6	1.00	2004	888	**855**
South	L117-L118	118	160.31 k	134.88	1.37	D	6	1.00	2740	1214	**1181**
South	L118-L119	119	160.44 k	156.38	1.18	D	6	1.00	4260	1887	**1854**
South	L119-L120	120	147.93 k	148.38	1.15	D	6	1.00	4642	2056	**2024**
South	L120-L121	121	125.95 k	147.19	0.98	D	6	1.00	7342	3252	**3220**
South	L121-L122	122	97.73 k	125.06	0.90	D	6	1.00	9640	4270	**4238**
South	L122-L123	123	66.58 k	89.48	0.86	D	6	1.00	11168	4947	**4915**
South	L123-L124	124	37.64 k	57.55	0.75	D	6	1.00	16440	7283	**7250**
South	L124-L125	125	17.21 k	46.95	0.42	D	6	1.00	93332	41346	**41313**
South	L125-L126	126	5.84 k	47.93	0.14	D	6	1.00	2549228	1129300	**1129267**
South	U0-U1	127	34.22 k	45.67	0.86	D	6	1.00	10940	4846	**4813**
South	U1-U2	128	69.38 k	61.30	1.30	D	6	1.00	3173	1406	**1373**
South	U2-U3	129	97.08 k	96.50	1.16	D	6	1.00	4519	2002	**1969**
South	U3-U4	130	111.29 k	96.50	1.33	D	6	1.00	3000	1329	**1296**
South	U4-U5	131	96.95 k	84.78	1.32	D	6	1.00	3076	1363	**1330**
South	U5-U6	132	96.99 k	84.78	1.32	D	6	1.00	3073	1361	**1329**
South	U6-U7	133	58.03 k	58.05	1.15	D	6	1.00	4604	2040	**2007**
South	U7-U8	134	0.00 k	45.67	0.00	D	6	1.00	n/a	n/a	**n/a**
South	U8-U9	135	46.26 k	47.17	1.13	D	6	1.00	4877	2161	**2128**
South	U9-U10	136	71.19 k	74.30	1.10	D	6	1.00	5230	2317	**2284**
South	U10-U11	137	117.18 k	88.48	1.52	D	6	1.00	1981	878	**845**
South	U11-U12	138	158.00 k	88.48	2.05	D	6	1.00	808	358	**325**
South	U12-U13	139	191.28 k	91.73	2.40	D	6	1.00	507	225	**192**
South	U13-U14	140	206.93 k	93.95	2.53	D	6	1.00	431	191	**158**
South	U14-U15	141	190.51 k	91.73	2.39	D	6	1.00	514	228	**195**
South	U15-U16	142	190.54 k	91.73	2.39	D	6	1.00	513	227	**195**
South	U16-U17	143	166.71 k	85.25	2.25	D	6	1.00	615	273	**240**
South	U17-U18	144	134.54 k	72.25	2.14	D	6	1.00	713	316	**283**
South	U18-U19	145	99.97 k	61.30	1.88	D	6	1.00	1061	470	**437**
South	U19-U20	146	69.19 k	61.30	1.30	D	6	1.00	3198	1417	**1384**
South	U20-U21	147	43.84 k	49.00	1.03	D	6	1.00	6426	2847	**2814**
South	U21-U22	148	30.73 k	38.42	0.92	D	6	1.00	8992	3984	**3951**
South	U22-U23	149	22.25 k	42.42	0.60	D	6	1.00	31878	14122	**14089**
South	U23-U24	150	60.66 k	45.67	1.53	D	6	1.00	1963	870	**837**
South	U24-U25	151	77.04 k	52.17	1.70	D	6	1.00	1429	633	**600**
South	U25-U26	152	77.02 k	52.17	1.70	D	6	1.00	1430	634	**601**

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South	U26-U27	153	67.83 k	52.17	1.50	D	6	1.00	2094	928	**895**
South	U27-U28	154	37.14 k	45.67	0.94	D	6	1.00	8553	3789	**3756**
South	U28-U29	155	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	U29-U30	156	26.58 k	42.42	0.72	D	6	1.00	18704	8286	**8253**
South	U30-U31	157	64.85 k	45.67	1.63	D	6	1.00	1607	712	**679**
South	U31-U32	158	99.83 k	45.67	2.51	D	6	1.00	441	195	**162**
South	U32-U33	159	134.39 k	55.89	2.77	D	6	1.00	331	147	**114**
South	U33-U34	160	155.03 k	91.42	1.95	D	6	1.00	943	418	**385**
South	U34-U35	161	145.84 k	101.70	1.65	D	6	1.00	1560	691	**658**
South	U35-U36	162	145.87 k	101.70	1.65	D	6	1.00	1559	691	**658**
South	U36-U37	163	122.49 k	86.80	1.62	D	6	1.00	1637	725	**692**
South	U37-U38	164	92.59 k	62.77	1.70	D	6	1.00	1433	635	**602**
South	U38-U39	165	60.52 k	58.80	1.18	D	6	1.00	4220	1869	**1837**
South	U39-U40	166	37.80 k	58.80	0.74	D	6	1.00	17320	7673	**7640**
South	U40-U41	167	17.83 k	42.42	0.48	D	6	1.00	61995	27464	**27431**
South	U41-U42	168	13.59 k	42.42	0.37	D	6	1.00	140061	62047	**62014**
South	U42-U43	169	43.32 k	43.45	1.15	D	6	1.00	4644	2057	**2024**
South	U43-U44	170	74.85 k	56.30	1.53	D	6	1.00	1958	867	**834**
South	U44-U45	171	81.36 k	62.77	1.49	D	6	1.00	2112	936	**903**
South	U45-U46	172	81.36 k	62.77	1.49	D	6	1.00	2112	936	**903**
South	U46-U47	173	67.99 k	56.30	1.39	D	6	1.00	2612	1157	**1124**
South	U47-U48	174	32.98 k	45.67	0.83	D	6	1.00	12220	5413	**5380**
South	U48-U49	175	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	U49-U50	176	19.38 k	42.42	0.53	D	6	1.00	48269	21383	**21350**
South	U50-U51	177	48.46 k	45.67	1.22	D	6	1.00	3852	1706	**1673**
South	U51-U52	178	74.41 k	45.67	1.87	D	6	1.00	1064	471	**438**
South	U52-U53	179	103.67 k	54.55	2.19	D	6	1.00	670	297	**264**
South	U53-U54	180	128.72 k	73.88	2.00	D	6	1.00	870	385	**353**
South	U54-U55	181	145.08 k	103.31	1.61	D	6	1.00	1661	736	**703**
South	U55-U56	182	145.22 k	106.92	1.56	D	6	1.00	1836	813	**781**
South	U56-U57	183	145.24 k	106.92	1.56	D	6	1.00	1836	813	**780**
South	U57-U58	184	138.70 k	70.55	2.26	D	6	1.00	605	268	**235**
South	U58-U59	185	114.35 k	73.80	1.78	D	6	1.00	1237	548	**515**
South	U59-U60	186	87.76 k	52.25	1.93	D	6	1.00	971	430	**397**
South	U60-U61	187	63.38 k	45.75	1.59	D	6	1.00	1731	767	**734**
South	U61-U62	188	44.04 k	45.67	1.11	D	6	1.00	5131	2273	**2240**
South	U62-U63	189	32.73 k	58.55	0.64	D	6	1.00	26328	11663	**11630**
South	U63-U64	190	21.02 k	42.42	0.57	D	6	1.00	37839	16763	**16730**
South	U64-U65	191	15.24 k	42.42	0.41	D	6	1.00	99209	43949	**43917**
South	U65-U66	192	46.13 k	48.61	1.09	D	6	1.00	5384	2385	**2352**
South	U66-U67	193	73.16 k	50.67	1.66	D	6	1.00	1529	677	**644**
South	U67-U68	194	77.93 k	61.30	1.46	D	6	1.00	2239	992	**959**
South	U68-U69	195	77.89 k	61.30	1.46	D	6	1.00	2242	993	**960**
South	U69-U70	196	67.46 k	56.30	1.38	D	6	1.00	2674	1185	**1152**
South	U70-U71	197	35.22 k	45.67	0.89	D	6	1.00	10035	4445	**4413**
South	U71-U72	198	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	U72-U73	199	25.91 k	42.42	0.70	D	6	1.00	20197	8947	**8915**
South	U73-U74	200	39.26 k	57.78	0.78	D	6	1.00	14667	6497	**6465**
South	U74-U75	201	66.45 k	45.42	1.68	D	6	1.00	1469	651	**618**
South	U75-U76	202	97.50 k	68.55	1.64	D	6	1.00	1599	708	**675**
South	U76-U77	203	133.79 k	68.55	2.24	D	6	1.00	619	274	**241**
South	U77-U78	204	172.05 k	100.94	1.96	D	6	1.00	929	412	**379**
South	U78-U79	205	202.06 k	140.69	1.65	D	6	1.00	1553	688	**655**
South	U79-U80	206	218.70 k	161.50	1.56	D	6	1.00	1853	821	**788**
South	U80-U81	207	230.81 k	189.13	1.40	D	6	1.00	2531	1121	**1089**

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South	U81-U82	208	246.63 k	181.88	1.56	D	6	1.00	1845	817	**785**
South	U82-U83	209	246.65 k	181.88	1.56	D	6	1.00	1845	817	**784**
South	U83-U84	210	249.11 k	168.03	1.70	D	6	1.00	1412	625	**593**
South	U84-U85	211	240.07 k	136.41	2.02	D	6	1.00	844	374	**341**
South	U85-U86	212	220.36 k	129.48	1.96	D	6	1.00	933	414	**381**
South	U86-U87	213	192.01 k	129.48	1.71	D	6	1.00	1411	625	**592**
South	U87-U88	214	160.05 k	133.23	1.38	D	6	1.00	2654	1176	**1143**
South	U88-U89	215	130.39 k	127.95	1.17	D	6	1.00	4348	1926	**1893**
South	U89-U90	216	105.64 k	133.23	0.91	D	6	1.00	9229	4088	**4056**
South	U90-U91	217	103.14 k	133.23	0.89	D	6	1.00	9918	4393	**4361**
South	U91-U92	218	110.86 k	133.23	0.96	D	6	1.00	7987	3538	**3505**
South	U92-U93	219	110.23 k	121.98	1.04	D	6	1.00	6235	2762	**2729**
South	U93-U94	220	96.24 k	97.23	1.14	D	6	1.00	4744	2102	**2069**
South	U94-U95	221	56.85 k	61.05	1.07	D	6	1.00	5696	2523	**2491**
South	U95-U96	222	0.00 k	45.42	0.00	D	6	1.00	n/a	n/a	**n/a**
South	U96-U97	223	56.57 k	61.05	1.07	D	6	1.00	5783	2562	**2529**
South	U97-U98	224	100.09 k	93.00	1.24	D	6	1.00	3691	1635	**1602**
South	U98-U99	225	126.99 k	111.06	1.31	D	6	1.00	3078	1363	**1331**
South	U99-U100	226	136.86 k	121.00	1.30	D	6	1.00	3180	1409	**1376**
South	U100-U101	227	136.87 k	121.00	1.30	D	6	1.00	3179	1408	**1376**
South	U101-U102	228	134.61 k	114.56	1.35	D	6	1.00	2836	1256	**1224**
South	U102-U103	229	114.76 k	93.00	1.42	D	6	1.00	2448	1085	**1052**
South	U103-U104	230	76.07 k	61.05	1.43	D	6	1.00	2378	1053	**1021**
South	U104-U105	231	26.73 k	60.42	0.51	D	6	1.00	53168	23553	**23521**
South	U105-U106	232	57.30 k	61.05	1.08	D	6	1.00	5565	2465	**2432**
South	U106-U107	233	92.59 k	105.30	1.01	D	6	1.00	6767	2998	**2965**
South	U107-U108	234	104.54 k	133.23	0.90	D	6	1.00	9525	4220	**4187**
South	U108-U109	235	101.43 k	144.48	0.81	D	6	1.00	13300	5892	**5859**
South	U109-U110	236	85.23 k	140.73	0.70	D	6	1.00	20717	9177	**9145**
South	U110-U111	237	81.54 k	140.73	0.67	D	6	1.00	23655	10479	**10446**
South	U111-U112	238	103.61 k	140.73	0.85	D	6	1.00	11529	5107	**5075**
South	U112-U113	239	129.96 k	140.73	1.06	D	6	1.00	5843	2588	**2555**
South	U113-U114	240	157.45 k	122.44	1.48	D	6	1.00	2163	958	**926**
South	U114-U115	241	180.18 k	108.44	1.91	D	6	1.00	1003	444	**411**
South	U115-U116	242	194.45 k	118.58	1.89	D	6	1.00	1043	462	**429**
South	U116-U117	243	199.77 k	139.20	1.65	D	6	1.00	1557	690	**657**
South	U117-U118	244	199.57 k	151.23	1.52	D	6	1.00	2002	887	**854**
South	U118-U119	245	199.56 k	151.23	1.52	D	6	1.00	2002	887	**854**
South	U119-U120	246	191.67 k	159.98	1.38	D	6	1.00	2675	1185	**1152**
South	U120-U121	247	175.23 k	159.98	1.26	D	6	1.00	3501	1551	**1518**
South	U121-U122	248	148.99 k	147.48	1.16	D	6	1.00	4463	1977	**1944**
South	U122-U123	249	115.69 k	118.23	1.13	D	6	1.00	4911	2176	**2143**
South	U123-U124	250	79.71 k	87.30	1.05	D	6	1.00	6043	2677	**2644**
South	U124-U125	251	46.47 k	61.05	0.88	D	6	1.00	10432	4621	**4588**
South	U125-U126	252	18.24 k	52.92	0.40	D	6	1.00	112464	49821	**49788**
North	L0-L1	253	48.29 k	40.95	1.36	D	6	1.00	2806	1243	**1210**
North	L1-L2	254	43.43 k	42.42	1.18	D	6	1.00	4289	1900	**1867**
North	L2-L3	255	62.76 k	59.80	1.21	D	6	1.00	3979	1763	**1730**
North	L3-L4	256	88.36 k	84.78	1.20	D	6	1.00	4064	1800	**1768**
North	L4-L5	257	104.40 k	96.50	1.24	D	6	1.00	3634	1610	**1577**
North	L5-L6	258	55.40 k	49.00	1.30	D	6	1.00	3183	1410	**1377**
North	L6-L7	259	0.00 k	41.17	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L7-L8	260	44.71 k	50.40	1.02	D	6	1.00	6589	2919	**2886**
North	L8-L9	261	68.25 k	73.80	1.06	D	6	1.00	5815	2576	**2543**
North	L9-L10	262	77.87 k	98.38	0.91	D	6	1.00	9278	4110	**4077**

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North	L10-L11	263	78.35 k	99.75	0.90	D	6	1.00	9494	4206	**4173**
North	L11-L12	264	100.37 k	93.75	1.23	D	6	1.00	3749	1661	**1628**
North	L12-L13	265	134.99 k	84.05	1.85	D	6	1.00	1110	492	**459**
North	L13-L14	266	161.27 k	88.36	2.10	D	6	1.00	757	335	**302**
North	L14-L15	267	170.78 k	93.25	2.11	D	6	1.00	749	332	**299**
North	L15-L16	268	127.89 k	90.00	1.63	D	6	1.00	1604	710	**678**
North	L16-L17	269	106.35 k	72.78	1.68	D	6	1.00	1475	653	**620**
North	L17-L18	270	99.40 k	60.73	1.88	D	6	1.00	1049	465	**432**
North	L18-L19	271	92.36 k	57.17	1.86	D	6	1.00	1091	483	**451**
North	L19-L20	272	85.75 k	65.55	1.50	D	6	1.00	2055	910	**877**
North	L20-L21	273	85.00 k	66.30	1.47	D	6	1.00	2183	967	**934**
North	L21-L22	274	69.88 k	54.34	1.48	D	6	1.00	2164	959	**926**
North	L22-L23	275	42.68 k	38.76	1.27	D	6	1.00	3444	1526	**1493**
North	L23-L24	276	0.00 k	38.02	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L24-L25	277	45.62 k	42.42	1.24	D	6	1.00	3700	1639	**1606**
North	L25-L26	278	63.59 k	45.67	1.60	D	6	1.00	1705	755	**722**
North	L26-L27	279	36.83 k	39.05	1.08	D	6	1.00	5482	2429	**2396**
North	L27-L28	280	0.00 k	38.02	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L28-L29	281	30.94 k	32.95	1.08	D	6	1.00	5559	2463	**2430**
North	L29-L30	282	47.30 k	46.30	1.17	D	6	1.00	4316	1912	**1879**
North	L30-L31	283	47.71 k	48.92	1.12	D	6	1.00	4960	2197	**2164**
North	L31-L32	284	64.46 k	39.78	1.86	D	6	1.00	1081	479	**446**
North	L32-L33	285	93.62 k	39.91	2.70	D	6	1.00	356	158	**125**
North	L33-L34	286	121.22 k	62.77	2.22	D	6	1.00	639	283	**250**
North	L34-L35	287	136.43 k	105.80	1.48	D	6	1.00	2146	950	**918**
North	L35-L36	288	100.12 k	98.80	1.17	D	6	1.00	4421	1959	**1926**
North	L36-L37	289	72.44 k	49.61	1.68	D	6	1.00	1477	654	**622**
North	L37-L38	290	68.16 k	43.30	1.81	D	6	1.00	1179	522	**490**
North	L38-L39	291	64.99 k	41.27	1.81	D	6	1.00	1178	522	**489**
North	L39-L40	292	64.84 k	48.92	1.52	D	6	1.00	1976	875	**843**
North	L40-L41	293	48.64 k	48.92	1.14	D	6	1.00	4682	2074	**2041**
North	L41-L42	294	29.45 k	37.92	0.89	D	6	1.00	9824	4352	**4319**
North	L42-L43	295	0.00 k	36.55	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L43-L44	296	35.08 k	42.42	0.95	D	6	1.00	8136	3604	**3571**
North	L44-L45	297	68.44 k	51.56	1.53	D	6	1.00	1967	871	**839**
North	L45-L46	298	67.23 k	52.56	1.47	D	6	1.00	2199	974	**941**
North	L46-L47	299	35.76 k	42.42	0.97	D	6	1.00	7680	3402	**3369**
North	L47-L48	300	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L48-L49	301	28.32 k	42.42	0.77	D	6	1.00	15460	6849	**6816**
North	L49-L50	302	42.77 k	48.92	1.01	D	6	1.00	6888	3051	**3018**
North	L50-L51	303	40.54 k	45.67	1.02	D	6	1.00	6576	2913	**2881**
North	L51-L52	304	57.93 k	45.67	1.46	D	6	1.00	2255	999	**966**
North	L52-L53	305	84.55 k	43.42	2.24	D	6	1.00	623	276	**243**
North	L53-L54	306	113.92 k	75.48	1.74	D	6	1.00	1339	593	**560**
North	L54-L55	307	142.70 k	118.63	1.38	D	6	1.00	2643	1171	**1138**
North	L55-L56	308	162.23 k	206.38	0.90	D	6	1.00	9472	4196	**4163**
North	L56-L57	309	149.31 k	199.13	0.86	D	6	1.00	10913	4835	**4802**
North	L57-L58	310	117.03 k	102.86	1.31	D	6	1.00	3124	1384	**1351**
North	L58-L59	311	95.17 k	63.09	1.73	D	6	1.00	1340	594	**561**
North	L59-L60	312	87.05 k	50.05	2.00	D	6	1.00	874	387	**354**
North	L60-L61	313	81.74 k	58.05	1.62	D	6	1.00	1648	730	**697**
North	L61-L62	314	76.63 k	61.30	1.44	D	6	1.00	2355	1043	**1011**
North	L62-L63	315	67.69 k	59.42	1.31	D	6	1.00	3112	1379	**1346**
North	L63-L64	316	52.79 k	42.73	1.42	D	6	1.00	2440	1081	**1048**
North	L64-L65	317	31.45 k	42.11	0.86	D	6	1.00	11046	4894	**4861**

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North	L65-L66	318	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L66-L67	319	36.14 k	40.80	1.02	D	6	1.00	6617	2931	**2898**
North	L67-L68	320	64.84 k	49.00	1.52	D	6	1.00	1986	880	**847**
North	L68-L69	321	64.07 k	49.00	1.50	D	6	1.00	2058	912	**879**
North	L69-L70	322	34.70 k	42.42	0.94	D	6	1.00	8405	3723	**3691**
North	L70-L71	323	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L71-L72	324	28.64 k	39.49	0.83	D	6	1.00	12060	5343	**5310**
North	L72-L73	325	48.15 k	58.05	0.95	D	6	1.00	8060	3570	**3538**
North	L73-L74	326	57.96 k	63.31	1.05	D	6	1.00	5998	2657	**2624**
North	L74-L75	327	57.59 k	64.02	1.03	D	6	1.00	6318	2799	**2766**
North	L75-L76	328	68.54 k	53.80	1.47	D	6	1.00	2224	985	**953**
North	L76-L77	329	94.82 k	53.80	2.03	D	6	1.00	840	372	**339**
North	L77-L78	330	124.14 k	63.55	2.25	D	6	1.00	617	273	**241**
North	L78-L79	331	155.63 k	102.77	1.74	D	6	1.00	1325	587	**554**
North	L79-L80	332	179.81 k	129.38	1.60	D	6	1.00	1714	759	**726**
North	L80-L81	333	191.73 k	166.23	1.33	D	6	1.00	2998	1328	**1296**
North	L81-L82	334	187.52 k	182.70	1.18	D	6	1.00	4255	1885	**1852**
North	L82-L83	335	191.46 k	174.63	1.26	D	6	1.00	3491	1546	**1514**
North	L83-L84	336	176.42 k	131.79	1.54	D	6	1.00	1918	850	**817**
North	L84-L85	337	161.76 k	124.50	1.49	D	6	1.00	2097	929	**896**
North	L85-L86	338	155.37 k	133.50	1.34	D	6	1.00	2919	1293	**1260**
North	L86-L87	339	144.71 k	141.45	1.18	D	6	1.00	4297	1904	**1871**
North	L87-L88	340	134.38 k	149.13	1.04	D	6	1.00	6288	2786	**2753**
North	L88-L89	341	127.48 k	169.00	0.87	D	6	1.00	10719	4749	**4716**
North	L89-L90	342	125.70 k	193.38	0.75	D	6	1.00	16751	7421	**7388**
North	L90-L91	343	142.74 k	244.48	0.67	D	6	1.00	23117	10241	**10208**
North	L91-L92	344	132.62 k	201.80	0.76	D	6	1.00	16207	7180	**7147**
North	L92-L93	345	127.22 k	150.88	0.97	D	6	1.00	7673	3399	**3366**
North	L93-L94	346	118.67 k	130.63	1.04	D	6	1.00	6136	2718	**2685**
North	L94-L95	347	98.41 k	93.50	1.21	D	6	1.00	3946	1748	**1715**
North	L95-L96	348	57.01 k	76.05	0.86	D	6	1.00	10917	4836	**4804**
North	L96-L97	349	0.00 k	45.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L97-L98	350	55.51 k	52.92	1.21	D	6	1.00	3986	1766	**1733**
North	L98-L99	351	96.56 k	83.28	1.33	D	6	1.00	2952	1308	**1275**
North	L99-L100	352	120.26 k	107.94	1.28	D	6	1.00	3326	1474	**1441**
North	L100-L101	353	121.17 k	108.44	1.28	D	6	1.00	3298	1461	**1428**
North	L101-L102	354	98.42 k	84.53	1.34	D	6	1.00	2915	1291	**1259**
North	L102-L103	355	57.26 k	52.42	1.26	D	6	1.00	3531	1564	**1531**
North	L103-L104	356	0.00 k	45.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	L104-L105	357	58.79 k	58.11	1.16	D	6	1.00	4442	1968	**1935**
North	L105-L106	358	100.72 k	107.00	1.08	D	6	1.00	5517	2444	**2411**
North	L106-L107	359	123.93 k	144.48	0.99	D	6	1.00	7291	3230	**3197**
North	L107-L108	360	134.73 k	163.73	0.95	D	6	1.00	8257	3658	**3625**
North	L108-L109	361	142.35 k	179.88	0.91	D	6	1.00	9282	4112	**4079**
North	L109-L110	362	145.36 k	197.13	0.85	D	6	1.00	11474	5083	**5050**
North	L110-L111	363	108.92 k	202.25	0.62	D	6	1.00	29458	13050	**13017**
North	L111-L112	364	119.45 k	164.73	0.83	D	6	1.00	12067	5346	**5313**
North	L112-L113	365	127.31 k	151.38	0.97	D	6	1.00	7735	3426	**3394**
North	L113-L114	366	137.57 k	137.25	1.15	D	6	1.00	4569	2024	**1991**
North	L114-L115	367	145.96 k	130.44	1.29	D	6	1.00	3284	1455	**1422**
North	L115-L116	368	148.28 k	110.73	1.54	D	6	1.00	1916	849	**816**
North	L116-L117	369	155.21 k	114.48	1.56	D	6	1.00	1846	818	**785**
North	L117-L118	370	168.52 k	134.88	1.44	D	6	1.00	2359	1045	**1012**
North	L118-L119	371	174.33 k	158.88	1.26	D	6	1.00	3482	1543	**1510**
North	L119-L120	372	163.15 k	158.88	1.18	D	6	1.00	4249	1882	**1849**

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North	L120-L121	373	140.54 k	148.31	1.09	D	6	1.00	5407	2395	**2363**
North	L121-L122	374	110.50 k	122.31	1.04	D	6	1.00	6239	2764	**2731**
North	L122-L123	375	77.15 k	86.98	1.02	D	6	1.00	6594	2921	**2888**
North	L123-L124	376	47.32 k	57.55	0.95	D	6	1.00	8277	3667	**3634**
North	L124-L125	377	21.28 k	52.92	0.46	D	6	1.00	70814	31370	**31338**
North	L125-L126	378	6.90 k	51.92	0.15	D	6	1.00	1956917	866908	**866875**
North	U0-U1	379	34.22 k	45.67	0.86	D	6	1.00	10943	4848	**4815**
North	U1-U2	380	69.37 k	61.30	1.30	D	6	1.00	3174	1406	**1373**
North	U2-U3	381	97.08 k	96.50	1.16	D	6	1.00	4519	2002	**1969**
North	U3-U4	382	111.28 k	96.50	1.33	D	6	1.00	3000	1329	**1296**
North	U4-U5	383	96.94 k	84.78	1.31	D	6	1.00	3078	1363	**1331**
North	U5-U6	384	96.97 k	81.97	1.36	D	6	1.00	2779	1231	**1198**
North	U6-U7	385	58.03 k	58.05	1.15	D	6	1.00	4604	2039	**2007**
North	U7-U8	386	0.00 k	34.84	0.00	D	6	1.00	n/a	n/a	**n/a**
North	U8-U9	387	46.27 k	47.17	1.13	D	6	1.00	4876	2160	**2127**
North	U9-U10	388	71.19 k	74.30	1.10	D	6	1.00	5231	2317	**2284**
North	U10-U11	389	117.21 k	88.48	1.52	D	6	1.00	1980	877	**844**
North	U11-U12	390	158.05 k	83.11	2.19	D	6	1.00	669	296	**264**
North	U12-U13	391	191.36 k	91.73	2.40	D	6	1.00	507	225	**192**
North	U13-U14	392	207.03 k	93.95	2.53	D	6	1.00	430	190	**158**
North	U14-U15	393	190.64 k	91.73	2.39	D	6	1.00	513	227	**194**
North	U15-U16	394	190.67 k	91.73	2.39	D	6	1.00	512	227	**194**
North	U16-U17	395	166.83 k	85.25	2.25	D	6	1.00	614	272	**239**
North	U17-U18	396	134.62 k	67.13	2.31	D	6	1.00	570	253	**220**
North	U18-U19	397	100.01 k	61.30	1.88	D	6	1.00	1059	469	**436**
North	U19-U20	398	69.19 k	61.30	1.30	D	6	1.00	3198	1417	**1384**
North	U20-U21	399	43.93 k	49.00	1.03	D	6	1.00	6383	2828	**2795**
North	U21-U22	400	30.68 k	42.42	0.83	D	6	1.00	12159	5386	**5354**
North	U22-U23	401	22.28 k	35.20	0.73	D	6	1.00	18148	8039	**8007**
North	U23-U24	402	60.69 k	36.57	1.91	D	6	1.00	1007	446	**413**
North	U24-U25	403	77.05 k	52.17	1.70	D	6	1.00	1428	633	**600**
North	U25-U26	404	77.03 k	52.17	1.70	D	6	1.00	1429	633	**600**
North	U26-U27	405	67.83 k	52.17	1.50	D	6	1.00	2093	927	**894**
North	U27-U28	406	37.15 k	45.67	0.94	D	6	1.00	8551	3788	**3755**
North	U28-U29	407	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	U29-U30	408	26.58 k	42.42	0.72	D	6	1.00	18714	8290	**8258**
North	U30-U31	409	64.93 k	45.67	1.63	D	6	1.00	1601	709	**676**
North	U31-U32	410	100.03 k	45.67	2.52	D	6	1.00	438	194	**161**
North	U32-U33	411	134.92 k	61.89	2.51	D	6	1.00	444	197	**164**
North	U33-U34	412	156.16 k	91.42	1.96	D	6	1.00	923	409	**376**
North	U34-U35	413	147.48 k	101.70	1.67	D	6	1.00	1509	668	**636**
North	U35-U36	414	147.51 k	101.70	1.67	D	6	1.00	1508	668	**635**
North	U36-U37	415	125.53 k	86.80	1.66	D	6	1.00	1521	674	**641**
North	U37-U38	416	95.93 k	62.77	1.76	D	6	1.00	1289	571	**538**
North	U38-U39	417	63.53 k	58.80	1.24	D	6	1.00	3646	1615	**1583**
North	U39-U40	418	40.20 k	58.80	0.79	D	6	1.00	14394	6376	**6344**
North	U40-U41	419	18.94 k	39.80	0.55	D	6	1.00	42714	18922	**18890**
North	U41-U42	420	13.04 k	42.42	0.35	D	6	1.00	158256	70107	**70074**
North	U42-U43	421	41.47 k	41.20	1.16	D	6	1.00	4513	1999	**1966**
North	U43-U44	422	73.99 k	56.30	1.51	D	6	1.00	2026	898	**865**
North	U44-U45	423	81.75 k	62.77	1.50	D	6	1.00	2082	922	**890**
North	U45-U46	424	81.74 k	62.77	1.50	D	6	1.00	2083	923	**890**
North	U46-U47	425	69.52 k	56.30	1.42	D	6	1.00	2443	1082	**1049**
North	U47-U48	426	35.51 k	45.67	0.89	D	6	1.00	9787	4336	**4303**
North	U48-U49	427	0.00 k	23.55	0.00	D	6	1.00	n/a	n/a	**n/a**

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North	U49-U50	428	23.11 k	42.42	0.63	D	6	1.00	28472	12613	**12580**
North	U50-U51	429	53.56 k	56.30	1.09	D	6	1.00	5342	2367	**2334**
North	U51-U52	430	84.62 k	58.80	1.66	D	6	1.00	1543	684	**651**
North	U52-U53	431	121.96 k	67.36	2.08	D	6	1.00	775	343	**311**
North	U53-U54	432	156.27 k	113.38	1.59	D	6	1.00	1757	778	**746**
North	U54-U55	433	181.93 k	152.38	1.37	D	6	1.00	2703	1197	**1165**
North	U55-U56	434	183.75 k	179.88	1.17	D	6	1.00	4316	1912	**1879**
North	U56-U57	435	183.77 k	174.59	1.21	D	6	1.00	3946	1748	**1715**
North	U57-U58	436	176.38 k	144.61	1.40	D	6	1.00	2535	1123	**1090**
North	U58-U59	437	143.96 k	108.61	1.52	D	6	1.00	1976	875	**842**
North	U59-U60	438	108.81 k	65.73	1.90	D	6	1.00	1014	449	**417**
North	U60-U61	439	75.95 k	45.70	1.91	D	6	1.00	1002	444	**411**
North	U61-U62	440	50.49 k	39.17	1.48	D	6	1.00	2149	952	**919**
North	U62-U63	441	33.21 k	59.23	0.64	D	6	1.00	26099	11562	**11529**
North	U63-U64	442	21.19 k	42.42	0.57	D	6	1.00	36930	16360	**16327**
North	U64-U65	443	15.26 k	42.42	0.41	D	6	1.00	98859	43794	**43761**
North	U65-U66	444	45.34 k	36.17	1.44	D	6	1.00	2336	1035	**1002**
North	U66-U67	445	72.56 k	47.98	1.74	D	6	1.00	1330	589	**557**
North	U67-U68	446	77.77 k	61.30	1.46	D	6	1.00	2253	998	**965**
North	U68-U69	447	77.77 k	61.30	1.46	D	6	1.00	2253	998	**965**
North	U69-U70	448	67.19 k	56.30	1.37	D	6	1.00	2706	1199	**1166**
North	U70-U71	449	35.07 k	45.67	0.88	D	6	1.00	10162	4502	**4469**
North	U71-U72	450	0.00 k	42.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	U72-U73	451	25.86 k	42.42	0.70	D	6	1.00	20305	8995	**8962**
North	U73-U74	452	39.25 k	57.78	0.78	D	6	1.00	14675	6501	**6468**
North	U74-U75	453	66.52 k	44.02	1.74	D	6	1.00	1333	590	**558**
North	U75-U76	454	97.55 k	55.80	2.01	D	6	1.00	861	381	**349**
North	U76-U77	455	134.13 k	68.55	2.25	D	6	1.00	614	272	**239**
North	U77-U78	456	172.47 k	100.94	1.96	D	6	1.00	922	409	**376**
North	U78-U79	457	202.51 k	140.69	1.66	D	6	1.00	1543	683	**651**
North	U79-U80	458	219.27 k	161.79	1.56	D	6	1.00	1848	819	**786**
North	U80-U81	459	232.47 k	189.13	1.41	D	6	1.00	2477	1097	**1065**
North	U81-U82	460	248.50 k	181.88	1.57	D	6	1.00	1804	799	**766**
North	U82-U83	461	248.52 k	178.88	1.60	D	6	1.00	1715	760	**727**
North	U83-U84	462	250.90 k	165.13	1.75	D	6	1.00	1311	581	**548**
North	U84-U85	463	241.48 k	136.63	2.03	D	6	1.00	833	369	**336**
North	U85-U86	464	221.59 k	129.48	1.97	D	6	1.00	918	407	**374**
North	U86-U87	465	192.92 k	129.48	1.71	D	6	1.00	1391	616	**583**
North	U87-U88	466	160.60 k	131.48	1.40	D	6	1.00	2525	1118	**1086**
North	U88-U89	467	130.61 k	126.22	1.19	D	6	1.00	4152	1839	**1806**
North	U89-U90	468	105.55 k	133.23	0.91	D	6	1.00	9252	4099	**4066**
North	U90-U91	469	103.62 k	133.23	0.89	D	6	1.00	9780	4333	**4300**
North	U91-U92	470	111.40 k	125.30	1.02	D	6	1.00	6545	2900	**2867**
North	U92-U93	471	110.70 k	121.98	1.04	D	6	1.00	6156	2727	**2694**
North	U93-U94	472	96.33 k	97.23	1.14	D	6	1.00	4732	2096	**2063**
North	U94-U95	473	57.11 k	61.05	1.08	D	6	1.00	5618	2489	**2456**
North	U95-U96	474	0.00 k	45.42	0.00	D	6	1.00	n/a	n/a	**n/a**
North	U96-U97	475	56.51 k	61.05	1.06	D	6	1.00	5802	2570	**2537**
North	U97-U98	476	99.27 k	93.00	1.23	D	6	1.00	3783	1676	**1643**
North	U98-U99	477	125.22 k	111.06	1.30	D	6	1.00	3210	1422	**1389**
North	U99-U100	478	134.09 k	118.56	1.30	D	6	1.00	3181	1409	**1376**
North	U100-U101	479	134.07 k	118.56	1.30	D	6	1.00	3182	1409	**1377**
North	U101-U102	480	130.49 k	111.06	1.35	D	6	1.00	2837	1257	**1224**
North	U102-U103	481	111.58 k	93.00	1.38	D	6	1.00	2664	1180	**1147**
North	U103-U104	482	74.66 k	61.05	1.41	D	6	1.00	2515	1114	**1081**

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North	U104-U105	483	27.11 k	60.42	0.52	D	6	1.00	50946	22569	**22536**
North	U105-U106	484	54.75 k	61.05	1.03	D	6	1.00	6376	2825	**2792**
North	U106-U107	485	88.75 k	105.30	0.97	D	6	1.00	7683	3403	**3371**
North	U107-U108	486	100.94 k	133.23	0.87	D	6	1.00	10579	4686	**4654**
North	U108-U109	487	98.73 k	144.48	0.79	D	6	1.00	14420	6388	**6355**
North	U109-U110	488	84.31 k	140.73	0.69	D	6	1.00	21402	9481	**9448**
North	U110-U111	489	83.14 k	140.73	0.68	D	6	1.00	22313	9885	**9852**
North	U111-U112	490	105.68 k	140.73	0.86	D	6	1.00	10864	4813	**4780**
North	U112-U113	491	132.60 k	140.73	1.08	D	6	1.00	5500	2436	**2404**
North	U113-U114	492	161.59 k	122.44	1.52	D	6	1.00	2002	887	**854**
North	U114-U115	493	187.10 k	108.44	1.98	D	6	1.00	896	397	**364**
North	U115-U116	494	205.35 k	118.58	1.99	D	6	1.00	886	392	**360**
North	U116-U117	495	214.67 k	139.20	1.77	D	6	1.00	1254	556	**523**
North	U117-U118	496	217.28 k	151.23	1.65	D	6	1.00	1551	687	**654**
North	U118-U119	497	217.27 k	151.23	1.65	D	6	1.00	1552	687	**655**
North	U119-U120	498	210.57 k	159.98	1.51	D	6	1.00	2018	894	**861**
North	U120-U121	499	194.81 k	159.98	1.40	D	6	1.00	2548	1129	**1096**
North	U121-U122	500	166.69 k	147.48	1.30	D	6	1.00	3187	1412	**1379**
North	U122-U123	501	130.15 k	118.23	1.27	D	6	1.00	3449	1528	**1495**
North	U123-U124	502	91.13 k	87.30	1.20	D	6	1.00	4044	1792	**1759**
North	U124-U125	503	55.69 k	61.05	1.05	D	6	1.00	6060	2684	**2652**
North	U125-U126	504	26.11 k	52.92	0.57	D	6	1.00	38323	16977	**16944**
South	U0-L0	505	56.92 k	46.53	1.41	D	6	1.00	2514	1114	**1081**
South	U1-L1	506	54.99 k	53.53	1.18	D	6	1.00	4244	1880	**1847**
South	U2-L2	507	48.94 k	40.72	1.38	D	6	1.00	2651	1175	**1142**
South	U3-L3	508	43.71 k	28.97	1.74	D	6	1.00	1339	593	**560**
South	U4-L4	509	38.83 k	28.97	1.54	D	6	1.00	1910	846	**813**
South	U5-L5	510	31.05 k	21.57	1.66	D	6	1.00	1541	683	**650**
South	U6-L6	511	47.58 k	37.78	1.45	D	6	1.00	2303	1020	**987**
South	U7-L7	512	54.63 k	50.31	1.25	D	6	1.00	3595	1592	**1560**
South	U8-L8	513	53.44 k	57.03	1.08	D	6	1.00	5591	2477	**2444**
South	U9-L9	514	50.41 k	64.03	0.91	D	6	1.00	9428	4176	**4144**
South	U10-L10	515	63.73 k	64.75	1.13	D	6	1.00	4825	2137	**2105**
South	U11-L11	516	64.61 k	50.69	1.47	D	6	1.00	2222	984	**951**
South	U12-L12	517	64.51 k	46.63	1.59	D	6	1.00	1737	770	**737**
South	U13-L13	518	58.38 k	37.78	1.78	D	6	1.00	1247	552	**520**
South	U14-L14	519	44.56 k	28.97	1.77	D	6	1.00	1264	560	**527**
South	U15-L15	520	30.78 k	21.57	1.64	D	6	1.00	1583	701	**668**
South	U16-L16	521	59.99 k	28.97	2.38	D	6	1.00	518	230	**197**
South	U17-L17	522	70.96 k	37.78	2.16	D	6	1.00	695	308	**275**
South	U18-L18	523	70.21 k	43.49	1.86	D	6	1.00	1094	485	**452**
South	U19-L19	524	63.25 k	50.69	1.44	D	6	1.00	2367	1049	**1016**
South	U20-L20	525	59.25 k	64.75	1.05	D	6	1.00	6006	2661	**2628**
South	U21-L21	526	47.19 k	46.25	1.17	D	6	1.00	4330	1918	**1885**
South	U22-L22	527	50.65 k	46.53	1.25	D	6	1.00	3568	1580	**1548**
South	U23-L23	528	50.73 k	40.72	1.43	D	6	1.00	2380	1054	**1021**
South	U24-L24	529	40.78 k	28.97	1.62	D	6	1.00	1649	731	**698**
South	U25-L25	530	30.65 k	21.57	1.63	D	6	1.00	1603	710	**677**
South	U26-L26	531	36.39 k	28.97	1.44	D	6	1.00	2321	1028	**995**
South	U27-L27	532	50.04 k	37.78	1.52	D	6	1.00	1980	877	**845**
South	U28-L28	533	54.66 k	46.25	1.36	D	6	1.00	2787	1235	**1202**
South	U29-L29	534	52.25 k	48.75	1.23	D	6	1.00	3737	1656	**1623**
South	U30-L30	535	60.86 k	102.00	0.69	D	6	1.00	21664	9597	**9564**
South	U31-L31	536	66.19 k	58.25	1.31	D	6	1.00	3136	1389	**1357**
South	U32-L32	537	64.34 k	53.75	1.38	D	6	1.00	2682	1188	**1155**

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South	U33-L33	538	56.87 k	46.25	1.41	D	6	1.00	2475	1096	**1064**
South	U34-L34	539	44.27 k	28.97	1.76	D	6	1.00	1289	571	**538**
South	U35-L35	540	30.95 k	23.64	1.51	D	6	1.00	2050	908	**875**
South	U36-L36	541	58.49 k	43.13	1.56	D	6	1.00	1845	817	**785**
South	U37-L37	542	66.88 k	48.75	1.58	D	6	1.00	1782	789	**757**
South	U38-L38	543	67.13 k	53.75	1.44	D	6	1.00	2362	1046	**1014**
South	U39-L39	544	60.11 k	59.25	1.17	D	6	1.00	4406	1952	**1919**
South	U40-L40	545	53.71 k	108.13	0.57	D	6	1.00	37531	16626	**16593**
South	U41-L41	546	50.50 k	53.25	1.09	D	6	1.00	5393	2389	**2356**
South	U42-L42	547	54.06 k	47.50	1.31	D	6	1.00	3121	1383	**1350**
South	U43-L43	548	51.24 k	46.63	1.26	D	6	1.00	3466	1536	**1503**
South	U44-L44	549	41.15 k	28.97	1.63	D	6	1.00	1605	711	**678**
South	U45-L45	550	30.83 k	24.82	1.43	D	6	1.00	2401	1064	**1031**
South	U46-L46	551	41.90 k	28.97	1.66	D	6	1.00	1520	673	**641**
South	U47-L47	552	55.78 k	45.38	1.41	D	6	1.00	2477	1097	**1064**
South	U48-L48	553	56.09 k	43.87	1.47	D	6	1.00	2201	975	**942**
South	U49-L49	554	51.04 k	56.75	1.03	D	6	1.00	6324	2802	**2769**
South	U50-L50	555	59.43 k	110.16	0.62	D	6	1.00	29301	12980	**12947**
South	U51-L51	556	64.39 k	73.34	1.01	D	6	1.00	6800	3012	**2980**
South	U52-L52	557	65.28 k	62.69	1.20	D	6	1.00	4074	1805	**1772**
South	U53-L53	558	61.01 k	67.78	1.04	D	6	1.00	6310	2795	**2763**
South	U54-L54	559	56.14 k	46.63	1.38	D	6	1.00	2636	1168	**1135**
South	U55-L55	560	44.50 k	28.97	1.77	D	6	1.00	1269	562	**529**
South	U56-L56	561	28.72 k	27.44	1.20	D	6	1.00	4010	1776	**1744**
South	U57-L57	562	48.35 k	34.85	1.60	D	6	1.00	1723	763	**731**
South	U58-L58	563	60.38 k	57.03	1.22	D	6	1.00	3878	1718	**1685**
South	U59-L59	564	61.19 k	73.78	0.95	D	6	1.00	8064	3572	**3540**
South	U60-L60	565	59.55 k	65.81	1.04	D	6	1.00	6212	2752	**2719**
South	U61-L61	566	57.23 k	68.34	0.96	D	6	1.00	7835	3471	**3438**
South	U62-L62	567	53.53 k	102.69	0.60	D	6	1.00	32474	14386	**14353**
South	U63-L63	568	46.67 k	59.25	0.91	D	6	1.00	9413	4170	**4137**
South	U64-L64	569	49.93 k	54.25	1.06	D	6	1.00	5903	2615	**2582**
South	U65-L65	570	52.77 k	51.66	1.17	D	6	1.00	4317	1912	**1880**
South	U66-L66	571	50.28 k	43.70	1.32	D	6	1.00	3020	1338	**1305**
South	U67-L67	572	38.89 k	28.97	1.54	D	6	1.00	1901	842	**809**
South	U68-L68	573	29.16 k	28.97	1.16	D	6	1.00	4511	1998	**1966**
South	U69-L69	574	38.72 k	28.97	1.54	D	6	1.00	1926	853	**821**
South	U70-L70	575	51.95 k	43.70	1.37	D	6	1.00	2738	1213	**1180**
South	U71-L71	576	55.48 k	47.50	1.34	D	6	1.00	2887	1279	**1246**
South	U72-L72	577	53.13 k	54.25	1.13	D	6	1.00	4897	2169	**2136**
South	U73-L73	578	46.96 k	59.00	0.92	D	6	1.00	9127	4043	**4010**
South	U74-L74	579	68.92 k	122.53	0.65	D	6	1.00	25860	11456	**11423**
South	U75-L75	580	75.96 k	79.19	1.10	D	6	1.00	5212	2309	**2276**
South	U76-L76	581	78.55 k	75.69	1.19	D	6	1.00	4116	1823	**1791**
South	U77-L77	582	77.55 k	82.59	1.08	D	6	1.00	5558	2462	**2429**
South	U78-L78	583	73.93 k	71.53	1.19	D	6	1.00	4167	1846	**1813**
South	U79-L79	584	65.46 k	56.25	1.34	D	6	1.00	2919	1293	**1260**
South	U80-L80	585	54.86 k	46.78	1.35	D	6	1.00	2853	1264	**1231**
South	U81-L81	586	50.23 k	28.97	1.99	D	6	1.00	883	391	**358**
South	U82-L82	587	29.34 k	28.97	1.16	D	6	1.00	4430	1962	**1930**
South	U83-L83	588	52.39 k	44.78	1.35	D	6	1.00	2873	1273	**1240**
South	U84-L84	589	59.73 k	60.63	1.13	D	6	1.00	4811	2131	**2099**
South	U85-L85	590	64.54 k	80.22	0.93	D	6	1.00	8835	3914	**3881**
South	U86-L86	591	68.24 k	80.63	0.97	D	6	1.00	7587	3361	**3328**
South	U87-L87	592	66.60 k	75.72	1.01	D	6	1.00	6763	2996	**2963**

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South	U88-L88	593	73.03 k	67.25	1.25	D	6	1.00	3592	1591	**1559**
South	U89-L89	594	68.22 k	68.06	1.15	D	6	1.00	4569	2024	**1991**
South	U90-L90	595	117.35 k	77.81	1.73	D	6	1.00	1341	594	**561**
South	U91-L91	596	60.30 k	41.25	1.68	D	6	1.00	1473	653	**620**
South	U92-L92	597	49.03 k	43.75	1.29	D	6	1.00	3268	1448	**1415**
South	U93-L93	598	49.36 k	48.75	1.16	D	6	1.00	4432	1963	**1930**
South	U94-L94	599	54.02 k	64.13	0.97	D	6	1.00	7697	3410	**3377**
South	U95-L95	600	58.42 k	62.38	1.08	D	6	1.00	5601	2481	**2449**
South	U96-L96	601	56.96 k	89.81	0.73	D	6	1.00	18038	7991	**7958**
South	U97-L97	602	50.53 k	43.70	1.33	D	6	1.00	2976	1318	**1285**
South	U98-L98	603	44.92 k	34.85	1.48	D	6	1.00	2148	952	**919**
South	U99-L99	604	40.69 k	27.44	1.71	D	6	1.00	1411	625	**592**
South	U100-L100	605	29.46 k	23.64	1.43	D	6	1.00	2377	1053	**1020**
South	U101-L101	606	39.73 k	27.44	1.67	D	6	1.00	1515	671	**638**
South	U102-L102	607	44.76 k	34.85	1.48	D	6	1.00	2172	962	**929**
South	U103-L103	608	49.80 k	43.70	1.31	D	6	1.00	3108	1377	**1344**
South	U104-L104	609	56.75 k	54.94	1.19	D	6	1.00	4174	1849	**1816**
South	U105-L105	610	57.69 k	58.78	1.13	D	6	1.00	4868	2156	**2124**
South	U106-L106	611	51.57 k	60.53	0.98	D	6	1.00	7441	3296	**3264**
South	U107-L107	612	49.25 k	49.25	1.15	D	6	1.00	4601	2038	**2006**
South	U108-L108	613	47.10 k	41.25	1.31	D	6	1.00	3092	1370	**1337**
South	U109-L109	614	67.28 k	42.75	1.81	D	6	1.00	1180	523	**490**
South	U110-L110	615	114.13 k	56.00	2.34	D	6	1.00	543	241	**208**
South	U111-L111	616	65.36 k	64.25	1.17	D	6	1.00	4371	1936	**1903**
South	U112-L112	617	66.83 k	69.44	1.11	D	6	1.00	5160	2286	**2253**
South	U113-L113	618	62.05 k	77.69	0.92	D	6	1.00	9031	4001	**3968**
South	U114-L114	619	54.83 k	80.00	0.79	D	6	1.00	14291	6331	**6298**
South	U115-L115	620	51.50 k	81.13	0.73	D	6	1.00	17982	7966	**7933**
South	U116-L116	621	49.21 k	64.63	0.88	D	6	1.00	10423	4618	**4585**
South	U117-L117	622	47.57 k	55.78	0.98	D	6	1.00	7417	3286	**3253**
South	U118-L118	623	26.91 k	28.97	1.07	D	6	1.00	5737	2541	**2508**
South	U119-L119	624	45.61 k	28.97	1.81	D	6	1.00	1179	522	**489**
South	U120-L120	625	46.94 k	36.16	1.49	D	6	1.00	2102	931	**899**
South	U121-L121	626	56.79 k	40.72	1.60	D	6	1.00	1697	752	**719**
South	U122-L122	627	66.35 k	57.31	1.33	D	6	1.00	2965	1313	**1281**
South	U123-L123	628	71.36 k	81.69	1.00	D	6	1.00	6902	3058	**3025**
South	U124-L124	629	74.14 k	85.13	1.00	D	6	1.00	6963	3085	**3052**
South	U125-L125	630	70.30 k	89.13	0.91	D	6	1.00	9375	4153	**4121**
South	U126-L126	631	69.99 k	108.06	0.74	D	6	1.00	16933	7501	**7469**
North	U0-L0	632	56.91 k	46.53	1.41	D	6	1.00	2515	1114	**1081**
North	U1-L1	633	54.99 k	53.53	1.18	D	6	1.00	4245	1881	**1848**
North	U2-L2	634	48.93 k	40.72	1.38	D	6	1.00	2651	1175	**1142**
North	U3-L3	635	43.71 k	28.97	1.74	D	6	1.00	1339	593	**560**
North	U4-L4	636	38.83 k	28.97	1.54	D	6	1.00	1910	846	**814**
North	U5-L5	637	31.03 k	21.57	1.65	D	6	1.00	1545	684	**652**
North	U6-L6	638	47.59 k	36.91	1.48	D	6	1.00	2146	951	**918**
North	U7-L7	639	54.63 k	43.31	1.45	D	6	1.00	2293	1016	**983**
North	U8-L8	640	53.44 k	57.03	1.08	D	6	1.00	5591	2477	**2444**
North	U9-L9	641	50.42 k	64.03	0.91	D	6	1.00	9424	4175	**4142**
North	U10-L10	642	63.83 k	64.75	1.13	D	6	1.00	4803	2128	**2095**
North	U11-L11	643	64.65 k	50.69	1.47	D	6	1.00	2217	982	**949**
North	U12-L12	644	64.53 k	46.63	1.59	D	6	1.00	1735	769	**736**
North	U13-L13	645	58.40 k	35.41	1.90	D	6	1.00	1025	454	**421**
North	U14-L14	646	44.55 k	28.97	1.77	D	6	1.00	1265	560	**528**
North	U15-L15	647	30.78 k	21.57	1.64	D	6	1.00	1583	701	**668**

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North	U16-L16	648	59.99 k	28.97	2.38	D	6	1.00	518	229	**197**
North	U17-L17	649	70.98 k	37.78	2.16	D	6	1.00	694	307	**275**
North	U18-L18	650	70.25 k	42.89	1.88	D	6	1.00	1047	464	**431**
North	U19-L19	651	63.32 k	50.69	1.44	D	6	1.00	2360	1045	**1013**
North	U20-L20	652	59.39 k	64.75	1.05	D	6	1.00	5962	2641	**2609**
North	U21-L21	653	47.20 k	46.25	1.17	D	6	1.00	4327	1917	**1884**
North	U22-L22	654	50.63 k	42.16	1.38	D	6	1.00	2657	1177	**1144**
North	U23-L23	655	50.71 k	38.00	1.53	D	6	1.00	1937	858	**825**
North	U24-L24	656	40.77 k	28.97	1.62	D	6	1.00	1650	731	**698**
North	U25-L25	657	30.65 k	21.57	1.63	D	6	1.00	1603	710	**677**
North	U26-L26	658	36.38 k	28.97	1.44	D	6	1.00	2322	1029	**996**
North	U27-L27	659	50.04 k	37.78	1.52	D	6	1.00	1980	877	**844**
North	U28-L28	660	54.65 k	40.84	1.54	D	6	1.00	1920	851	**818**
North	U29-L29	661	52.29 k	48.75	1.23	D	6	1.00	3729	1652	**1619**
North	U30-L30	662	60.94 k	102.00	0.69	D	6	1.00	21571	9556	**9523**
North	U31-L31	663	66.39 k	58.25	1.31	D	6	1.00	3108	1377	**1344**
North	U32-L32	664	64.74 k	53.75	1.39	D	6	1.00	2633	1166	**1134**
North	U33-L33	665	57.48 k	46.25	1.43	D	6	1.00	2397	1062	**1029**
North	U34-L34	666	44.46 k	28.97	1.77	D	6	1.00	1272	564	**531**
North	U35-L35	667	30.92 k	23.64	1.50	D	6	1.00	2056	911	**878**
North	U36-L36	668	58.13 k	40.91	1.63	D	6	1.00	1604	711	**678**
North	U37-L37	669	66.71 k	48.75	1.57	D	6	1.00	1795	795	**763**
North	U38-L38	670	67.33 k	53.75	1.44	D	6	1.00	2341	1037	**1004**
North	U39-L39	671	60.50 k	59.25	1.17	D	6	1.00	4321	1914	**1881**
North	U40-L40	672	54.24 k	108.13	0.58	D	6	1.00	36443	16144	**16112**
North	U41-L41	673	50.60 k	50.25	1.16	D	6	1.00	4505	1996	**1963**
North	U42-L42	674	54.38 k	48.50	1.29	D	6	1.00	3265	1446	**1413**
North	U43-L43	675	51.84 k	45.74	1.30	D	6	1.00	3162	1401	**1368**
North	U44-L44	676	41.52 k	28.97	1.65	D	6	1.00	1562	692	**659**
North	U45-L45	677	30.44 k	25.39	1.38	D	6	1.00	2668	1182	**1149**
North	U46-L46	678	40.81 k	28.97	1.62	D	6	1.00	1645	729	**696**
North	U47-L47	679	53.56 k	46.63	1.32	D	6	1.00	3035	1344	**1312**
North	U48-L48	680	54.00 k	36.34	1.71	D	6	1.00	1403	621	**589**
North	U49-L49	681	50.31 k	53.25	1.09	D	6	1.00	5456	2417	**2384**
North	U50-L50	682	64.81 k	128.13	0.58	D	6	1.00	35543	15746	**15713**
North	U51-L51	683	74.29 k	79.19	1.08	D	6	1.00	5572	2468	**2436**
North	U52-L52	684	77.04 k	75.69	1.17	D	6	1.00	4363	1933	**1900**
North	U53-L53	685	73.37 k	74.94	1.13	D	6	1.00	4903	2172	**2139**
North	U54-L54	686	68.39 k	64.25	1.22	D	6	1.00	3814	1690	**1657**
North	U55-L55	687	51.69 k	33.34	1.78	D	6	1.00	1234	547	**514**
North	U56-L56	688	32.21 k	28.97	1.28	D	6	1.00	3347	1483	**1450**
North	U57-L57	689	54.62 k	34.28	1.83	D	6	1.00	1138	504	**471**
North	U58-L58	690	71.40 k	68.69	1.20	D	6	1.00	4096	1815	**1782**
North	U59-L59	691	73.05 k	78.38	1.07	D	6	1.00	5682	2517	**2485**
North	U60-L60	692	71.92 k	78.69	1.05	D	6	1.00	6026	2670	**2637**
North	U61-L61	693	69.24 k	81.69	0.97	D	6	1.00	7556	3347	**3315**
North	U62-L62	694	60.06 k	115.13	0.60	D	6	1.00	32396	14351	**14318**
North	U63-L63	695	45.83 k	55.25	0.95	D	6	1.00	8059	3570	**3537**
North	U64-L64	696	49.66 k	50.75	1.13	D	6	1.00	4911	2175	**2143**
North	U65-L65	697	52.74 k	47.35	1.28	D	6	1.00	3329	1475	**1442**
North	U66-L66	698	50.00 k	43.70	1.32	D	6	1.00	3071	1360	**1328**
North	U67-L67	699	38.56 k	28.97	1.53	D	6	1.00	1950	864	**831**
North	U68-L68	700	28.88 k	28.97	1.15	D	6	1.00	4640	2056	**2023**
North	U69-L69	701	38.56 k	28.97	1.53	D	6	1.00	1951	864	**832**
North	U70-L70	702	51.78 k	43.70	1.36	D	6	1.00	2764	1225	**1192**

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North	U71-L71	703	55.38 k	53.75	1.18	D	6	1.00	4206	1863	**1830**
North	U72-L72	704	52.97 k	54.25	1.12	D	6	1.00	4943	2190	**2157**
North	U73-L73	705	46.92 k	59.00	0.91	D	6	1.00	9150	4054	**4021**
North	U74-L74	706	69.28 k	122.53	0.65	D	6	1.00	25450	11274	**11241**
North	U75-L75	707	76.46 k	79.19	1.11	D	6	1.00	5110	2264	**2231**
North	U76-L76	708	78.84 k	75.69	1.20	D	6	1.00	4070	1803	**1770**
North	U77-L77	709	78.14 k	82.59	1.09	D	6	1.00	5433	2407	**2374**
North	U78-L78	710	74.43 k	71.53	1.20	D	6	1.00	4084	1809	**1777**
North	U79-L79	711	65.82 k	56.25	1.35	D	6	1.00	2872	1272	**1239**
North	U80-L80	712	55.09 k	47.78	1.33	D	6	1.00	3002	1330	**1297**
North	U81-L81	713	50.25 k	28.97	1.99	D	6	1.00	881	390	**358**
North	U82-L82	714	29.04 k	28.97	1.15	D	6	1.00	4565	2022	**1990**
North	U83-L83	715	52.36 k	41.13	1.46	D	6	1.00	2230	988	**955**
North	U84-L84	716	59.70 k	58.88	1.17	D	6	1.00	4412	1955	**1922**
North	U85-L85	717	64.56 k	80.22	0.93	D	6	1.00	8825	3909	**3877**
North	U86-L86	718	68.32 k	80.63	0.97	D	6	1.00	7563	3350	**3317**
North	U87-L87	719	67.08 k	74.09	1.04	D	6	1.00	6201	2747	**2714**
North	U88-L88	720	73.56 k	67.25	1.26	D	6	1.00	3516	1558	**1525**
North	U89-L89	721	69.09 k	68.06	1.17	D	6	1.00	4399	1949	**1916**
North	U90-L90	722	119.37 k	77.81	1.76	D	6	1.00	1275	565	**532**
North	U91-L91	723	60.16 k	41.25	1.68	D	6	1.00	1483	657	**624**
North	U92-L92	724	48.88 k	43.75	1.28	D	6	1.00	3298	1461	**1428**
North	U93-L93	725	49.25 k	48.75	1.16	D	6	1.00	4462	1977	**1944**
North	U94-L94	726	53.89 k	64.13	0.97	D	6	1.00	7753	3435	**3402**
North	U95-L95	727	58.66 k	61.38	1.10	D	6	1.00	5269	2334	**2301**
North	U96-L96	728	57.22 k	85.50	0.77	D	6	1.00	15351	6800	**6767**
North	U97-L97	729	50.42 k	42.76	1.36	D	6	1.00	2806	1243	**1210**
North	U98-L98	730	44.65 k	34.85	1.47	D	6	1.00	2188	969	**937**
North	U99-L99	731	40.29 k	27.44	1.69	D	6	1.00	1452	643	**611**
North	U100-L100	732	29.13 k	23.64	1.42	D	6	1.00	2459	1089	**1056**
North	U101-L101	733	40.37 k	27.44	1.69	D	6	1.00	1445	640	**607**
North	U102-L102	734	44.90 k	34.85	1.48	D	6	1.00	2151	953	**920**
North	U103-L103	735	49.95 k	42.82	1.34	D	6	1.00	2898	1284	**1251**
North	U104-L104	736	56.68 k	43.69	1.49	D	6	1.00	2106	933	**900**
North	U105-L105	737	57.66 k	48.28	1.37	D	6	1.00	2701	1197	**1164**
North	U106-L106	738	51.81 k	46.28	1.29	D	6	1.00	3279	1453	**1420**
North	U107-L107	739	49.48 k	48.28	1.18	D	6	1.00	4274	1893	**1861**
North	U108-L108	740	47.15 k	41.25	1.31	D	6	1.00	3082	1365	**1332**
North	U109-L109	741	67.83 k	58.75	1.33	D	6	1.00	2989	1324	**1291**
North	U110-L110	742	120.07 k	56.00	2.47	D	6	1.00	467	207	**174**
North	U111-L111	743	70.29 k	64.25	1.26	D	6	1.00	3514	1557	**1524**
North	U112-L112	744	71.49 k	69.44	1.18	D	6	1.00	4216	1868	**1835**
North	U113-L113	745	68.20 k	91.11	0.86	D	6	1.00	10968	4859	**4826**
North	U114-L114	746	62.76 k	87.73	0.82	D	6	1.00	12567	5567	**5535**
North	U115-L115	747	60.64 k	74.23	0.94	D	6	1.00	8440	3739	**3706**
North	U116-L116	748	59.09 k	62.63	1.09	D	6	1.00	5476	2426	**2393**
North	U117-L117	749	57.27 k	53.53	1.23	D	6	1.00	3757	1664	**1631**
North	U118-L118	750	33.26 k	28.97	1.32	D	6	1.00	3039	1346	**1313**
North	U119-L119	751	53.91 k	28.97	2.14	D	6	1.00	714	316	**283**
North	U120-L120	752	54.65 k	30.93	2.03	D	6	1.00	834	369	**336**
North	U121-L121	753	62.90 k	46.63	1.55	D	6	1.00	1874	830	**797**
North	U122-L122	754	72.79 k	68.63	1.22	D	6	1.00	3855	1708	**1675**
North	U123-L123	755	76.59 k	68.69	1.28	D	6	1.00	3318	1470	**1437**
North	U124-L124	756	77.17 k	83.44	1.06	D	6	1.00	5815	2576	**2543**
North	U125-L125	757	70.24 k	79.19	1.02	D	6	1.00	6592	2920	**2888**

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North	U126-L126	758	63.75 k	110.55	0.66	D	6	1.00	23994	10629	**10597**
South	U0-L1	759	56.92 k	43.70	1.50	D	6	1.00	2082	922	**889**
South	U1-L2	760	59.30 k	43.70	1.56	D	6	1.00	1841	815	**783**
South	U2-L3	761	57.97 k	34.85	1.91	D	6	1.00	1000	443	**410**
South	U3-L4	762	58.12 k	28.97	2.31	D	6	1.00	570	252	**220**
South	U4-L5	763	62.37 k	37.78	1.90	D	6	1.00	1023	453	**420**
South	U6-L5	764	69.13 k	41.82	1.90	D	6	1.00	1019	451	**419**
South	U7-L6	765	73.64 k	57.03	1.48	D	6	1.00	2137	947	**914**
South	U8-L7	766	63.52 k	53.28	1.37	D	6	1.00	2715	1203	**1170**
South	U9-L8	767	51.95 k	46.63	1.28	D	6	1.00	3326	1474	**1441**
South	U10-L9	768	42.18 k	37.78	1.28	D	6	1.00	3307	1465	**1432**
South	U10-L11	769	67.61 k	37.78	2.06	D	6	1.00	803	356	**323**
South	U11-L12	770	71.72 k	37.78	2.18	D	6	1.00	673	298	**265**
South	U12-L13	771	76.96 k	40.72	2.17	D	6	1.00	682	302	**269**
South	U13-L14	772	75.25 k	34.85	2.48	D	6	1.00	457	202	**170**
South	U14-L15	773	69.55 k	28.97	2.76	D	6	1.00	332	147	**114**
South	U16-L15	774	83.87 k	28.97	3.33	D	6	1.00	190	84	**51**
South	U17-L16	775	95.37 k	34.85	3.15	D	6	1.00	225	99	**67**
South	U18-L17	776	82.47 k	37.78	2.51	D	6	1.00	442	196	**163**
South	U19-L18	777	65.26 k	37.78	1.99	D	6	1.00	893	396	**363**
South	U20-L19	778	57.03 k	48.28	1.36	D	6	1.00	2791	1236	**1204**
South	U20-L21	779	36.96 k	37.78	1.12	D	6	1.00	4915	2177	**2144**
South	U21-L22	780	42.69 k	31.93	1.54	D	6	1.00	1924	853	**820**
South	U22-L23	781	54.36 k	37.78	1.65	D	6	1.00	1545	684	**652**
South	U23-L24	782	60.67 k	37.78	1.85	D	6	1.00	1111	492	**459**
South	U24-L25	783	52.04 k	28.97	2.07	D	6	1.00	793	351	**319**
South	U26-L25	784	45.42 k	28.97	1.80	D	6	1.00	1194	529	**496**
South	U27-L26	785	52.77 k	22.12	2.74	D	6	1.00	339	150	**117**
South	U28-L27	786	55.86 k	31.93	2.01	D	6	1.00	859	381	**348**
South	U29-L28	787	47.71 k	31.93	1.72	D	6	1.00	1379	611	**578**
South	U30-L29	788	39.03 k	28.97	1.55	D	6	1.00	1881	833	**800**
South	U30-L31	789	62.67 k	37.78	1.91	D	6	1.00	1008	447	**414**
South	U31-L32	790	68.43 k	46.63	1.69	D	6	1.00	1455	645	**612**
South	U32-L33	791	69.85 k	40.72	1.97	D	6	1.00	912	404	**371**
South	U33-L34	792	67.15 k	43.70	1.77	D	6	1.00	1268	562	**529**
South	U34-L35	793	64.61 k	28.97	2.56	D	6	1.00	415	184	**151**
South	U36-L35	794	74.99 k	28.97	2.98	D	6	1.00	265	117	**85**
South	U37-L36	795	80.19 k	43.70	2.11	D	6	1.00	744	330	**297**
South	U38-L37	796	70.82 k	50.03	1.63	D	6	1.00	1622	719	**686**
South	U39-L38	797	57.19 k	43.70	1.51	D	6	1.00	2052	909	**876**
South	U40-L39	798	48.87 k	37.78	1.49	D	6	1.00	2125	942	**909**
South	U40-L41	799	34.61 k	28.97	1.37	D	6	1.00	2698	1195	**1162**
South	U41-L42	800	43.84 k	34.85	1.45	D	6	1.00	2312	1024	**991**
South	U42-L43	801	53.88 k	37.78	1.64	D	6	1.00	1586	703	**670**
South	U43-L44	802	56.27 k	34.85	1.86	D	6	1.00	1093	484	**451**
South	U44-L45	803	49.77 k	21.57	2.65	D	6	1.00	374	166	**133**
South	U46-L45	804	49.75 k	21.57	2.65	D	6	1.00	375	166	**133**
South	U47-L46	805	59.95 k	34.85	1.98	D	6	1.00	904	400	**368**
South	U48-L47	806	56.66 k	37.78	1.72	D	6	1.00	1364	604	**571**
South	U49-L48	807	43.55 k	26.07	1.92	D	6	1.00	987	437	**405**
South	U50-L49	808	36.73 k	28.97	1.46	D	6	1.00	2257	1000	**967**
South	U50-L51	809	58.17 k	37.78	1.77	D	6	1.00	1261	559	**526**
South	U51-L52	810	63.89 k	43.70	1.68	D	6	1.00	1472	652	**619**
South	U52-L53	811	64.74 k	41.01	1.82	D	6	1.00	1170	518	**485**
South	U53-L54	812	66.54 k	43.70	1.75	D	6	1.00	1303	577	**544**

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South	U54-L55	813	64.93 k	37.78	1.98	D	6	1.00	906	402	**369**
South	U55-L56	814	61.57 k	37.78	1.87	D	6	1.00	1063	471	**438**
South	U57-L56	815	63.90 k	28.97	2.54	D	6	1.00	429	190	**157**
South	U58-L57	816	72.32 k	43.70	1.90	D	6	1.00	1015	450	**417**
South	U59-L58	817	68.13 k	42.32	1.85	D	6	1.00	1102	488	**456**
South	U60-L59	818	58.35 k	44.75	1.50	D	6	1.00	2076	920	**887**
South	U61-L60	819	53.96 k	40.72	1.52	D	6	1.00	1978	876	**843**
South	U62-L61	820	47.34 k	41.25	1.32	D	6	1.00	3043	1348	**1315**
South	U62-L63	821	31.84 k	41.25	0.89	D	6	1.00	10006	4433	**4400**
South	U63-L64	822	38.75 k	31.93	1.40	D	6	1.00	2573	1140	**1107**
South	U64-L65	823	46.93 k	34.85	1.55	D	6	1.00	1885	835	**802**
South	U65-L66	824	55.48 k	37.78	1.69	D	6	1.00	1453	644	**611**
South	U66-L67	825	54.12 k	31.18	2.00	D	6	1.00	879	390	**357**
South	U67-L68	826	46.74 k	25.39	2.12	D	6	1.00	737	327	**294**
South	U69-L68	827	45.68 k	21.57	2.44	D	6	1.00	484	215	**182**
South	U70-L69	828	54.69 k	31.93	1.97	D	6	1.00	915	405	**373**
South	U71-L70	829	56.77 k	37.78	1.73	D	6	1.00	1357	601	**568**
South	U72-L71	830	49.26 k	29.74	1.91	D	6	1.00	1012	448	**416**
South	U73-L72	831	41.10 k	31.93	1.48	D	6	1.00	2156	955	**922**
South	U74-L73	832	32.87 k	41.25	0.92	D	6	1.00	9093	4028	**3995**
South	U74-L75	833	72.49 k	53.75	1.55	D	6	1.00	1876	831	**798**
South	U75-L76	834	79.21 k	58.03	1.57	D	6	1.00	1809	801	**769**
South	U76-L77	835	80.47 k	65.88	1.40	D	6	1.00	2524	1118	**1085**
South	U77-L78	836	86.63 k	67.63	1.47	D	6	1.00	2188	969	**937**
South	U78-L79	837	86.22 k	64.03	1.55	D	6	1.00	1884	835	**802**
South	U79-L80	838	80.50 k	43.70	2.12	D	6	1.00	736	326	**293**
South	U80-L81	839	68.09 k	34.85	2.25	D	6	1.00	617	273	**241**
South	U81-L82	840	70.37 k	43.70	1.85	D	6	1.00	1102	488	**455**
South	U83-L82	841	71.53 k	46.63	1.76	D	6	1.00	1274	564	**532**
South	U84-L83	842	74.11 k	71.13	1.20	D	6	1.00	4068	1802	**1769**
South	U85-L84	843	79.50 k	65.63	1.39	D	6	1.00	2588	1146	**1114**
South	U86-L85	844	78.37 k	74.63	1.21	D	6	1.00	3972	1759	**1727**
South	U87-L86	845	72.95 k	71.13	1.18	D	6	1.00	4265	1889	**1857**
South	U88-L87	846	72.64 k	55.16	1.51	D	6	1.00	2014	892	**859**
South	U89-L88	847	68.63 k	51.25	1.54	D	6	1.00	1916	849	**816**
South	U90-L89	848	63.10 k	61.75	1.18	D	6	1.00	4313	1911	**1878**
South	U90-L91	849	71.31 k	53.75	1.53	D	6	1.00	1970	873	**840**
South	U91-L92	850	54.22 k	41.25	1.51	D	6	1.00	2026	898	**865**
South	U92-L93	851	38.98 k	37.78	1.19	D	6	1.00	4191	1856	**1824**
South	U93-L94	852	45.50 k	40.72	1.28	D	6	1.00	3298	1461	**1428**
South	U94-L95	853	64.44 k	60.63	1.22	D	6	1.00	3832	1698	**1665**
South	U95-L96	854	76.74 k	71.13	1.24	D	6	1.00	3663	1623	**1590**
South	U96-L97	855	75.04 k	64.03	1.35	D	6	1.00	2859	1267	**1234**
South	U97-L98	856	69.12 k	48.28	1.65	D	6	1.00	1568	695	**662**
South	U98-L99	857	64.13 k	34.85	2.12	D	6	1.00	738	327	**294**
South	U99-L100	858	64.31 k	28.97	2.55	D	6	1.00	420	186	**153**
South	U101-L100	859	64.39 k	28.97	2.56	D	6	1.00	419	186	**153**
South	U102-L101	860	65.06 k	31.93	2.34	D	6	1.00	544	241	**208**
South	U103-L102	861	70.98 k	48.28	1.69	D	6	1.00	1448	641	**609**
South	U104-L103	862	77.30 k	64.03	1.39	D	6	1.00	2615	1159	**1126**
South	U105-L104	863	79.04 k	71.70	1.27	D	6	1.00	3434	1521	**1488**
South	U106-L105	864	63.88 k	60.63	1.21	D	6	1.00	3934	1743	**1710**
South	U107-L106	865	46.51 k	43.70	1.22	D	6	1.00	3815	1690	**1657**
South	U108-L107	866	40.48 k	28.97	1.61	D	6	1.00	1686	747	**714**
South	U109-L108	867	60.94 k	41.25	1.70	D	6	1.00	1427	632	**599**

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South	U110-L109	868	73.32 k	52.38	1.61	D	6	1.00	1677	743	**710**
South	U110-L111	869	63.91 k	54.69	1.34	D	6	1.00	2882	1277	**1244**
South	U111-L112	870	66.50 k	48.75	1.57	D	6	1.00	1813	803	**770**
South	U112-L113	871	69.53 k	48.28	1.66	D	6	1.00	1541	682	**650**
South	U113-L114	872	67.75 k	58.88	1.32	D	6	1.00	3020	1338	**1305**
South	U114-L115	873	61.48 k	65.88	1.07	D	6	1.00	5660	2507	**2475**
South	U115-L116	874	62.33 k	58.88	1.22	D	6	1.00	3877	1717	**1685**
South	U116-L117	875	61.75 k	60.63	1.17	D	6	1.00	4353	1928	**1896**
South	U117-L118	876	61.92 k	50.03	1.42	D	6	1.00	2427	1075	**1042**
South	U119-L118	877	60.53 k	48.28	1.44	D	6	1.00	2334	1034	**1001**
South	U120-L119	878	59.01 k	37.85	1.79	D	6	1.00	1214	538	**505**
South	U121-L120	879	65.34 k	28.97	2.59	D	6	1.00	401	178	**145**
South	U122-L121	880	73.45 k	43.70	1.93	D	6	1.00	969	429	**396**
South	U123-L122	881	76.81 k	55.78	1.58	D	6	1.00	1762	781	**748**
South	U124-L123	882	74.46 k	66.28	1.29	D	6	1.00	3246	1438	**1405**
South	U125-L124	883	69.70 k	64.63	1.24	D	6	1.00	3668	1625	**1592**
South	U126-L125	884	61.44 k	64.63	1.09	D	6	1.00	5355	2372	**2340**
North	U0-L1	885	56.92 k	43.70	1.50	D	6	1.00	2082	922	**890**
North	U1-L2	886	59.30 k	43.70	1.56	D	6	1.00	1841	816	**783**
North	U2-L3	887	57.97 k	34.85	1.91	D	6	1.00	999	443	**410**
North	U3-L4	888	58.11 k	28.97	2.31	D	6	1.00	570	252	**220**
North	U4-L5	889	62.34 k	37.78	1.90	D	6	1.00	1024	454	**421**
North	U6-L5	890	69.11 k	43.70	1.82	D	6	1.00	1163	515	**482**
North	U7-L6	891	73.64 k	57.03	1.48	D	6	1.00	2137	947	**914**
North	U8-L7	892	63.53 k	55.28	1.32	D	6	1.00	3032	1343	**1310**
North	U9-L8	893	51.95 k	46.63	1.28	D	6	1.00	3327	1474	**1441**
North	U10-L9	894	42.18 k	37.78	1.28	D	6	1.00	3306	1464	**1432**
North	U10-L11	895	67.66 k	37.78	2.06	D	6	1.00	801	355	**322**
North	U11-L12	896	71.76 k	37.78	2.18	D	6	1.00	672	298	**265**
North	U12-L13	897	77.00 k	39.78	2.23	D	6	1.00	635	281	**248**
North	U13-L14	898	75.26 k	34.85	2.48	D	6	1.00	457	202	**170**
North	U14-L15	899	69.51 k	28.97	2.76	D	6	1.00	333	147	**115**
North	U16-L15	900	83.88 k	28.97	3.33	D	6	1.00	189	84	**51**
North	U17-L16	901	95.42 k	34.85	3.15	D	6	1.00	224	99	**67**
North	U18-L17	902	82.52 k	36.38	2.61	D	6	1.00	394	175	**142**
North	U19-L18	903	65.33 k	37.78	1.99	D	6	1.00	890	394	**362**
North	U20-L19	904	57.12 k	48.28	1.36	D	6	1.00	2778	1231	**1198**
North	U20-L21	905	36.98 k	37.78	1.13	D	6	1.00	4905	2173	**2140**
North	U21-L22	906	42.68 k	31.93	1.54	D	6	1.00	1926	853	**821**
North	U22-L23	907	54.33 k	37.78	1.65	D	6	1.00	1547	685	**653**
North	U23-L24	908	60.66 k	37.78	1.85	D	6	1.00	1111	492	**460**
North	U24-L25	909	52.04 k	28.97	2.07	D	6	1.00	794	352	**319**
North	U26-L25	910	45.41 k	28.97	1.80	D	6	1.00	1194	529	**496**
North	U27-L26	911	52.78 k	28.97	2.10	D	6	1.00	761	337	**304**
North	U28-L27	912	55.86 k	31.93	2.01	D	6	1.00	859	380	**348**
North	U29-L28	913	47.70 k	23.66	2.32	D	6	1.00	561	249	**216**
North	U30-L29	914	39.09 k	28.97	1.55	D	6	1.00	1873	830	**797**
North	U30-L31	915	62.87 k	37.78	1.91	D	6	1.00	999	442	**410**
North	U31-L32	916	68.65 k	46.63	1.69	D	6	1.00	1441	638	**606**
North	U32-L33	917	70.50 k	45.47	1.78	D	6	1.00	1235	547	**514**
North	U33-L34	918	68.14 k	43.70	1.79	D	6	1.00	1213	538	**505**
North	U34-L35	919	64.80 k	28.97	2.57	D	6	1.00	411	182	**149**
North	U36-L35	920	74.50 k	28.97	2.96	D	6	1.00	270	120	**87**
North	U37-L36	921	79.96 k	43.70	2.10	D	6	1.00	751	333	**300**
North	U38-L37	922	71.01 k	44.42	1.84	D	6	1.00	1126	499	**466**

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North	U39-L38	923	57.64 k	43.70	1.52	D	6	1.00	2004	888	**855**
North	U40-L39	924	49.46 k	37.78	1.51	D	6	1.00	2051	909	**876**
North	U40-L41	925	34.66 k	20.47	1.95	D	6	1.00	947	420	**387**
North	U41-L42	926	44.09 k	29.23	1.73	D	6	1.00	1341	594	**561**
North	U42-L43	927	54.53 k	32.17	1.95	D	6	1.00	944	418	**386**
North	U43-L44	928	56.96 k	34.85	1.88	D	6	1.00	1054	467	**434**
North	U44-L45	929	50.14 k	21.57	2.67	D	6	1.00	366	162	**129**
North	U46-L45	930	49.81 k	21.57	2.66	D	6	1.00	373	165	**133**
North	U47-L46	931	58.60 k	34.85	1.93	D	6	1.00	968	429	**396**
North	U48-L47	932	56.00 k	37.78	1.70	D	6	1.00	1413	626	**593**
North	U49-L48	933	43.95 k	29.23	1.73	D	6	1.00	1354	600	**567**
North	U50-L49	934	33.74 k	37.78	1.03	D	6	1.00	6458	2861	**2828**
North	U50-L51	935	67.36 k	53.53	1.45	D	6	1.00	2309	1023	**990**
North	U51-L52	936	75.86 k	53.53	1.63	D	6	1.00	1617	716	**684**
North	U52-L53	937	79.05 k	47.13	1.93	D	6	1.00	975	432	**399**
North	U53-L54	938	82.15 k	55.38	1.71	D	6	1.00	1409	624	**591**
North	U54-L55	939	81.06 k	55.28	1.69	D	6	1.00	1460	647	**614**
North	U55-L56	940	70.38 k	28.97	2.79	D	6	1.00	321	142	**109**
North	U57-L56	941	72.73 k	28.92	2.89	D	6	1.00	289	128	**95**
North	U58-L57	942	86.70 k	50.91	1.96	D	6	1.00	931	413	**380**
North	U59-L58	943	82.96 k	58.34	1.64	D	6	1.00	1600	709	**676**
North	U60-L59	944	73.59 k	62.38	1.36	D	6	1.00	2802	1241	**1208**
North	U61-L60	945	67.88 k	60.63	1.29	D	6	1.00	3278	1452	**1419**
North	U62-L61	946	59.45 k	48.28	1.42	D	6	1.00	2465	1092	**1059**
North	U62-L63	947	30.92 k	28.97	1.23	D	6	1.00	3782	1675	**1643**
North	U63-L64	948	38.61 k	31.93	1.39	D	6	1.00	2600	1152	**1119**
North	U64-L65	949	46.90 k	32.04	1.68	D	6	1.00	1467	650	**617**
North	U65-L66	950	55.18 k	37.78	1.68	D	6	1.00	1477	654	**622**
North	U66-L67	951	53.77 k	31.93	1.94	D	6	1.00	963	427	**394**
North	U67-L68	952	46.20 k	25.39	2.09	D	6	1.00	764	338	**306**
North	U69-L68	953	45.41 k	21.57	2.42	D	6	1.00	493	218	**186**
North	U70-L69	954	54.56 k	31.93	1.97	D	6	1.00	922	408	**376**
North	U71-L70	955	56.59 k	37.78	1.72	D	6	1.00	1369	607	**574**
North	U72-L71	956	49.17 k	30.34	1.86	D	6	1.00	1081	479	**446**
North	U73-L72	957	40.97 k	31.93	1.48	D	6	1.00	2178	965	**932**
North	U74-L73	958	32.83 k	41.25	0.92	D	6	1.00	9123	4041	**4009**
North	U74-L75	959	73.17 k	53.75	1.57	D	6	1.00	1824	808	**775**
North	U75-L76	960	79.58 k	58.03	1.58	D	6	1.00	1784	790	**757**
North	U76-L77	961	80.72 k	65.88	1.41	D	6	1.00	2501	1108	**1075**
North	U77-L78	962	87.25 k	67.63	1.48	D	6	1.00	2142	949	**916**
North	U78-L79	963	86.86 k	57.72	1.73	D	6	1.00	1350	598	**565**
North	U79-L80	964	80.99 k	37.58	2.48	D	6	1.00	460	204	**171**
North	U80-L81	965	68.26 k	34.85	2.25	D	6	1.00	612	271	**238**
North	U81-L82	966	70.42 k	42.95	1.89	D	6	1.00	1044	462	**430**
North	U83-L82	967	71.51 k	46.63	1.76	D	6	1.00	1275	565	**532**
North	U84-L83	968	74.08 k	69.44	1.23	D	6	1.00	3789	1678	**1646**
North	U85-L84	969	79.53 k	66.22	1.38	D	6	1.00	2656	1177	**1144**
North	U86-L85	970	78.51 k	74.63	1.21	D	6	1.00	3951	1750	**1718**
North	U87-L86	971	73.59 k	68.75	1.23	D	6	1.00	3751	1662	**1629**
North	U88-L87	972	73.29 k	54.16	1.56	D	6	1.00	1856	822	**789**
North	U89-L88	973	69.38 k	51.25	1.56	D	6	1.00	1854	821	**789**
North	U90-L89	974	64.47 k	61.75	1.20	D	6	1.00	4043	1791	**1758**
North	U90-L91	975	71.83 k	53.75	1.54	D	6	1.00	1928	854	**821**
North	U91-L92	976	54.28 k	39.57	1.58	D	6	1.00	1783	790	**757**
North	U92-L93	977	39.13 k	37.03	1.22	D	6	1.00	3900	1728	**1695**

As-Inspected Fatigue Summary

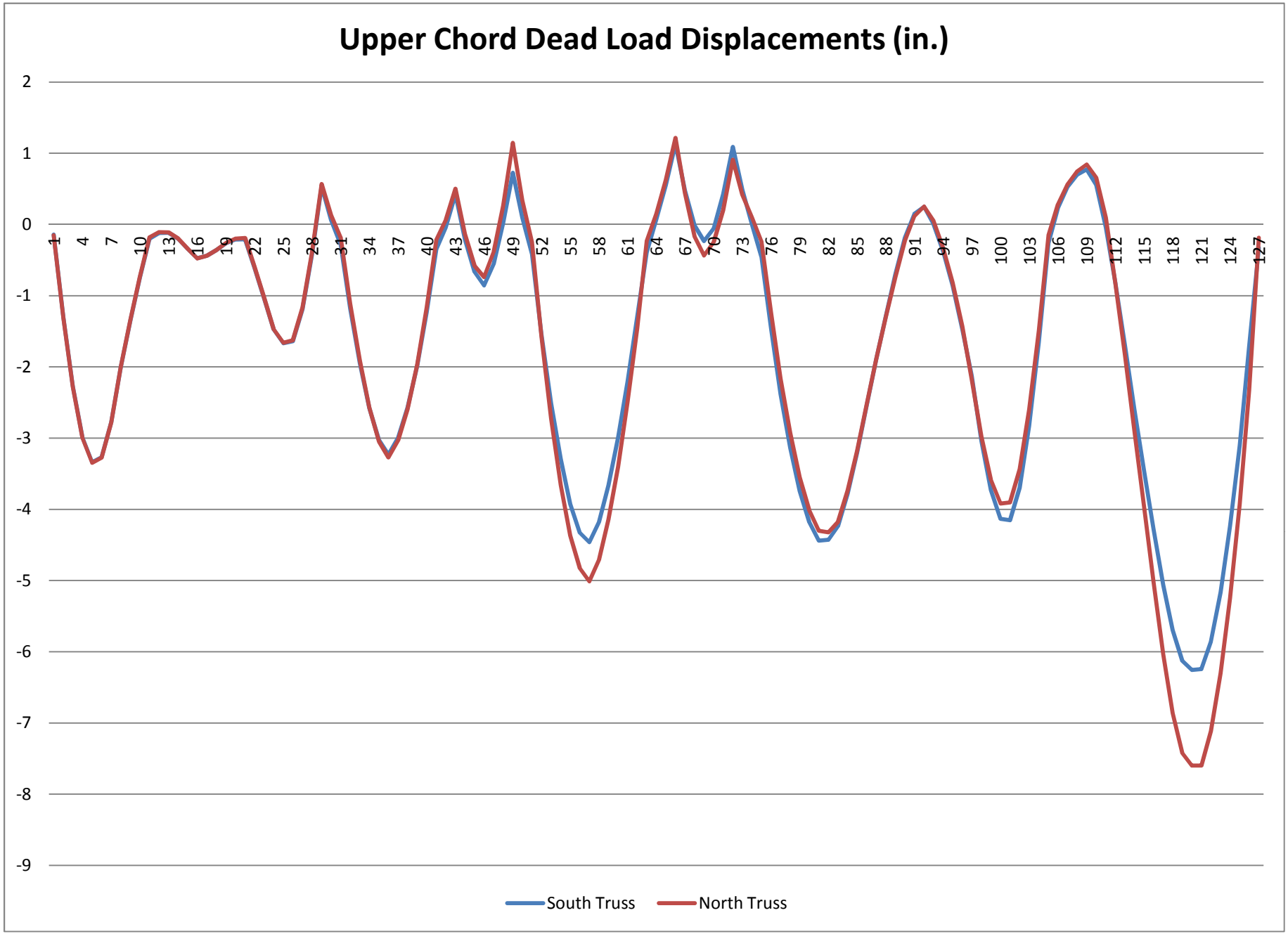
Made By: DWC Date: 3/30/2012 Job No.: P402110046

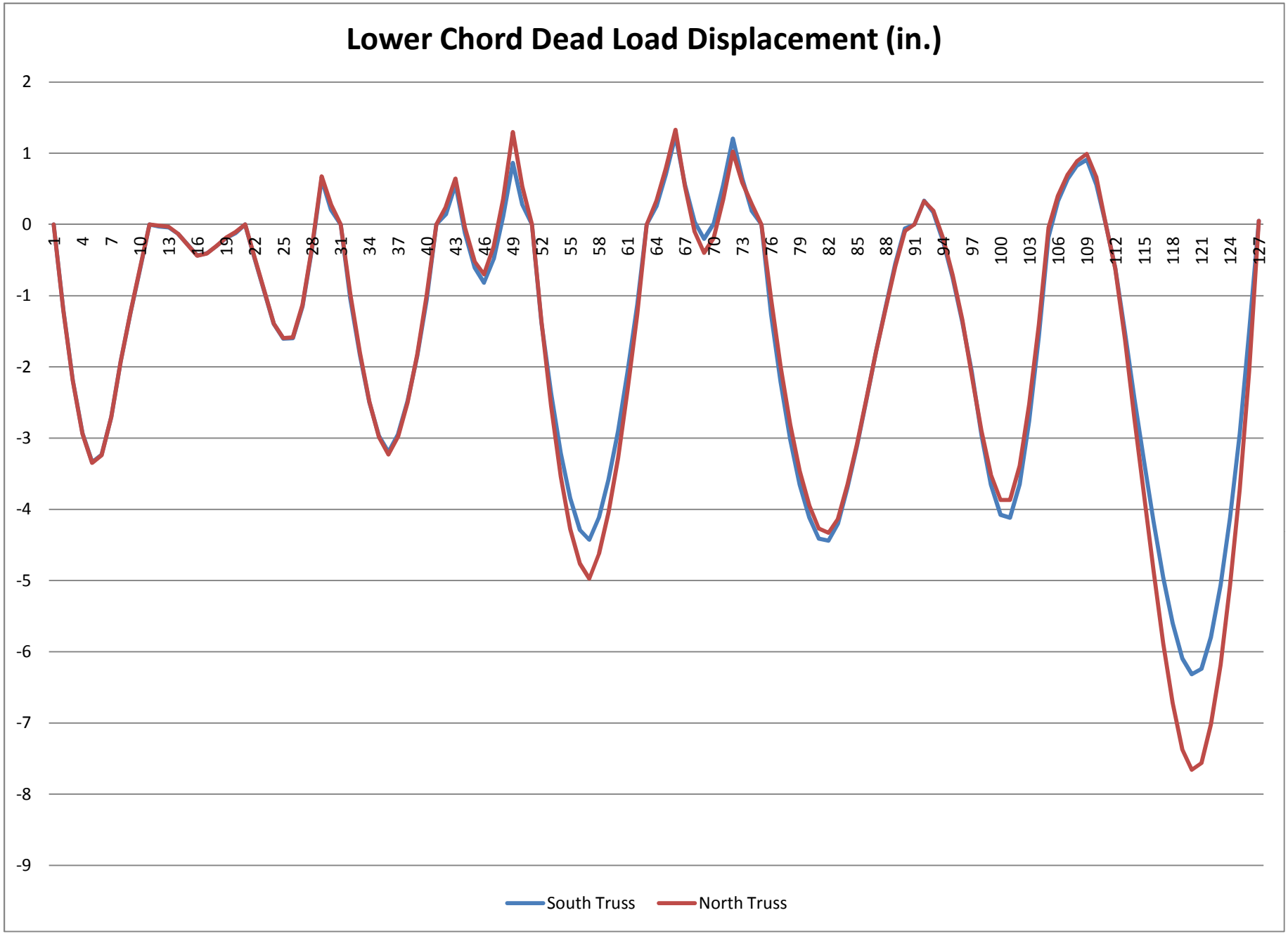
Checked By: ADK Date: 3/30/2012 Sheet No.:

CUY-2-1441 Main Truss Spans - As-Inspected Fatigue Summary

North	U93-L94	978	45.39 k	40.72	1.28	D	6	1.00	3323	1472	**1439**
North	U94-L95	979	64.78 k	60.63	1.23	D	6	1.00	3771	1671	**1638**
North	U95-L96	980	77.09 k	71.13	1.25	D	6	1.00	3613	1600	**1568**
North	U96-L97	981	74.94 k	64.03	1.35	D	6	1.00	2870	1271	**1239**
North	U97-L98	982	68.36 k	47.41	1.66	D	6	1.00	1535	680	**647**
North	U98-L99	983	63.08 k	34.85	2.08	D	6	1.00	776	344	**311**
North	U99-L100	984	63.12 k	28.97	2.51	D	6	1.00	445	197	**164**
North	U101-L100	985	63.42 k	28.97	2.52	D	6	1.00	438	194	**161**
North	U102-L101	986	63.94 k	31.93	2.30	D	6	1.00	573	254	**221**
North	U103-L102	987	69.41 k	48.28	1.65	D	6	1.00	1548	686	**653**
North	U104-L103	988	75.25 k	64.03	1.35	D	6	1.00	2834	1256	**1223**
North	U105-L104	989	76.89 k	71.70	1.23	D	6	1.00	3730	1652	**1620**
North	U106-L105	990	62.85 k	60.63	1.19	D	6	1.00	4130	1830	**1797**
North	U107-L106	991	46.45 k	43.70	1.22	D	6	1.00	3830	1697	**1664**
North	U108-L107	992	40.11 k	28.97	1.59	D	6	1.00	1733	768	**735**
North	U109-L108	993	59.54 k	41.25	1.66	D	6	1.00	1530	678	**645**
North	U110-L109	994	73.22 k	53.25	1.58	D	6	1.00	1770	784	**751**
North	U110-L111	995	64.40 k	54.69	1.35	D	6	1.00	2817	1248	**1215**
North	U111-L112	996	70.30 k	48.75	1.66	D	6	1.00	1535	680	**647**
North	U112-L113	997	74.45 k	48.28	1.77	D	6	1.00	1255	556	**523**
North	U113-L114	998	74.71 k	58.88	1.46	D	6	1.00	2252	997	**965**
North	U114-L115	999	70.94 k	65.88	1.24	D	6	1.00	3684	1632	**1599**
North	U115-L116	1000	73.48 k	58.88	1.44	D	6	1.00	2366	1048	**1016**
North	U116-L117	1001	72.75 k	60.63	1.38	D	6	1.00	2663	1180	**1147**
North	U117-L118	1002	72.96 k	50.03	1.68	D	6	1.00	1484	657	**624**
North	U119-L118	1003	70.88 k	53.53	1.52	D	6	1.00	1982	878	**845**
North	U120-L119	1004	68.09 k	40.72	1.92	D	6	1.00	984	436	**403**
North	U121-L120	1005	71.23 k	28.97	2.83	D	6	1.00	309	137	**104**
North	U122-L121	1006	80.31 k	43.70	2.11	D	6	1.00	741	328	**295**
North	U123-L122	1007	83.90 k	55.78	1.73	D	6	1.00	1352	599	**566**
North	U124-L123	1008	80.28 k	67.78	1.36	D	6	1.00	2769	1227	**1194**
North	U125-L124	1009	73.47 k	64.63	1.31	D	6	1.00	3131	1387	**1354**
North	U126-L125	1010	61.96 k	64.63	1.10	D	6	1.00	5222	2313	**2280**

DEAD LOAD DISPLACEMENTS


Upper Chord Dead Load Displacements (in.)
2
1
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
1
4
7
10
13
16
19
22
25
28
31
34
37
40
43
46
49
52
55
58
61
64
67
70
73
76
79
82
85
88
91
94
97
100
103
106
109
112
115
118
121
124
127
South Truss
North Truss


Lower Chord Dead Load Displacement (in.)
2
1
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
1
4
7
10
13
16
19
22
25
28
31
34
37
40
43
46
49
52
55
58
61
64
67
70
73
76
79
82
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94
97
100
103
106
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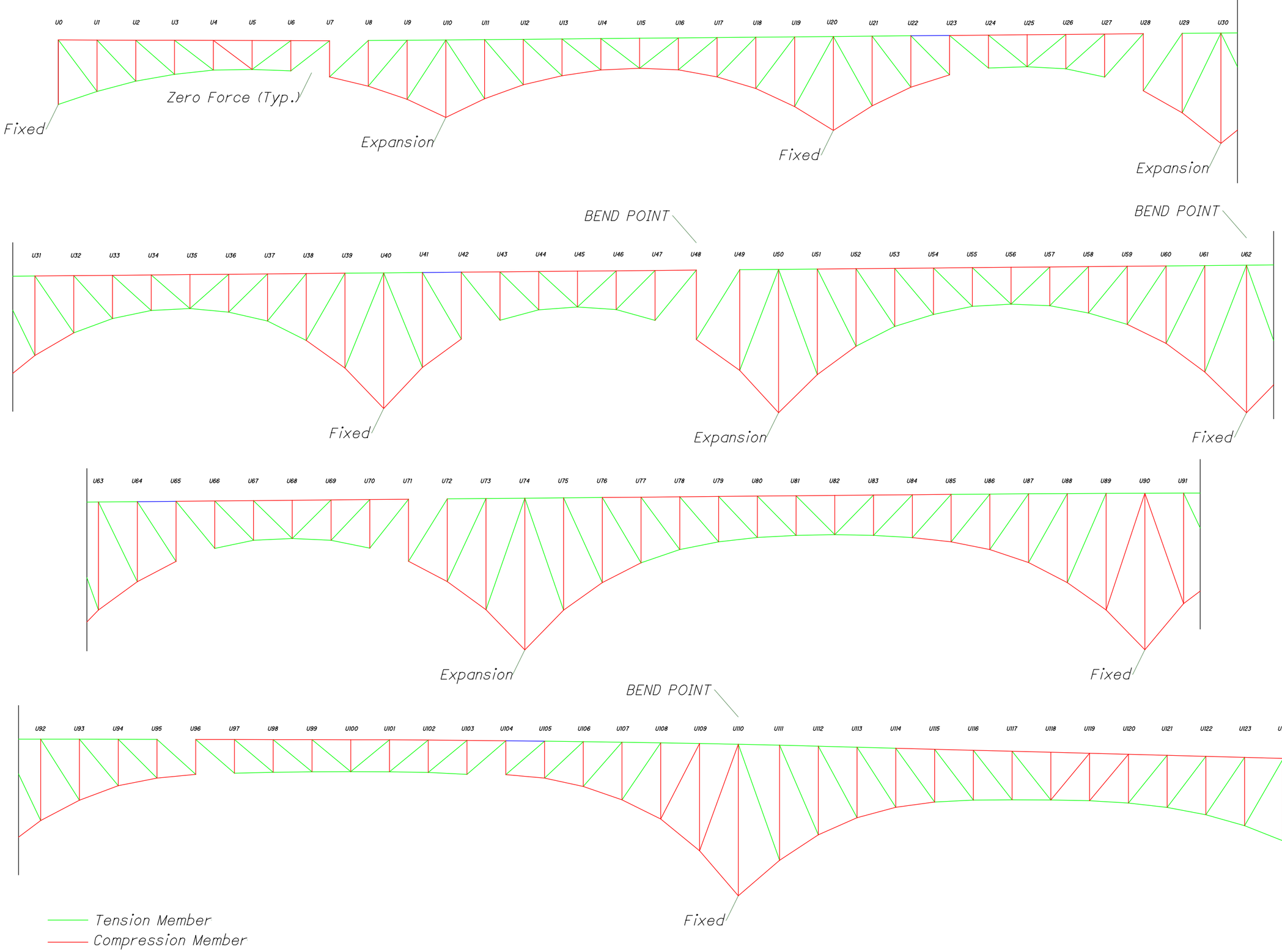
115
118
121
124
127
South Truss
North Truss



NORTH TRUSS FORCE DIAGRAM (SOUTH ELEVATION)

FRAMING MEMBER LOAD RATING

STRINGER LOAD RATING

STRINGER SECTION PROPERTIES

W16x67 Section Properties $d = 16.3\,in$, $t_w = 0.395\,in$, $t_f = 0.665\,in$, $b_f = 10.2\,in$
$Z_x = 130\,in^3$

Moment Capacity (M_n) $E = 29{,}000\ ksi$ $F_y = 36\ ksi$

- Check Compact Section: $b/t = \frac{10.2\,in}{0.665\,in} = 15.3$

a. (AASHTO 10.48.1.1) $b/t \le \frac{4110}{\sqrt{F_y}} \Rightarrow 15.3 \le 21.7$

$\frac{D}{t_w} = \frac{16.3\,in - 2(0.665\,in)}{0.395\,in} = 37.9$ $D = 14.97\,in$

b. (AASHTO 10.48.1.1) $\frac{D}{t_w} \le \frac{19230}{\sqrt{F_y}} \Rightarrow 37.9 \le 101.4$

c. $\frac{L_b}{r_y}$ will be braced by the deck $\therefore$ OK

$M_n = F_y Z_x = 36\,ksi\,(130\,in^3) = 4680\ k\text{-}in$
$390\ k\text{-}ft$

Shear Capacity (V_n) (AASHTO 10.48.8.1)

$V_n = 0.58 F_y D t_w C$

Calculate C: $\frac{D}{t_w} < \frac{6000\sqrt{k}}{\sqrt{F_y}} \Rightarrow 37.9 < 70.71$
$\therefore C = 1$

* $k = 5$ for unstiffened beams + girders

$V_n = 0.58(36\,ksi)(14.97\,in)(0.395\,in)(1) = 123.5\,k$

W14x61 Section Properties $d = 13.9\,in$, $t_w = 0.375\,in$, $t_f = 0.645\,in$, $b_f = 10\,in$
$Z_x = 102\,in^3$

Moment Capacity (M_n) $E = 29{,}000\,ksi$ $F_y = 36\,ksi$

- Check Compact Section (AASHTO 10.48.1)

$D = 13.9\,in - 2(0.645\,in) = 12.6\,in$

$\frac{b}{t} = \frac{10\,in}{0.645\,in} = 15.5$

$\frac{D}{t_w} = \frac{12.6\,in}{0.375\,in} = 33.6$

a. $\frac{b}{t} \le \frac{4110}{\sqrt{F_y}} \Rightarrow 15.5 \le 21.7$ ✓

b. $\frac{D}{t_w} \le \frac{19230}{\sqrt{F_y}} \Rightarrow 33.6 \le 101.4$ ✓

c. $\frac{L_b}{r_y}$ = ok (beam will be ✓ braced by deck)

(AASHTO 10.48.1) $\rightarrow M_n = F_y Z_x = 36\,ksi\,(102\,in^3) = 3672\,k\text{-}in$

$306\,k\text{-}ft$

Shear Capacity (V_n) (AASHTO 10.48.8.1)

$V_n = 0.58 F_y D t_w C$

$D = d - 2t_f =$

Calculate C: $\frac{D}{t_w} = \frac{12.6\,in}{0.375\,in} = 33.63$

$\frac{60{,}000\sqrt{K}}{\sqrt{F_y}} = \frac{60{,}000\sqrt{5}}{\sqrt{36000\,psi}} = 70.71$

* $K = 5$ for unstiffened beams & girders

$33.63 < 70.71 \therefore C = 1$

$V_n = 0.58(36\,ksi)(12.6\,in)(0.375\,in)\,1 = 98.74\,k$

Calculations for 1/4 US Grid

W16x77 Section Properties $d = 16.5\,in$, $t_w = 0.455\,in$, $t_f = 0.76\,in$, $b_f = 10.3\,in$
$Z_x = 150\,in^3$

Moment Capacity (M_n): $E = 29{,}000\,ksi$, $F_y = 36\,ksi$

- Check Compact Section (AASHTO 10.48.1):

$$\frac{b}{t} = \frac{10.3\,in}{0.76\,in} = 13.6$$

a. $b/t \le \frac{4110}{\sqrt{F_y}} \Rightarrow 13.6 \le 21.7$ ✓

$D = 14.98\,in$

$$\frac{D}{t_w} = \frac{16.5\,in - 2(0.76\,in)}{0.455\,in} = 32.9$$

b. $\frac{D}{t_w} \le \frac{19230}{\sqrt{F_y}} \Rightarrow 32.9 \le 101.4$ ✓

c. $\frac{2b}{r_y}$ = ok (beam will be braced by deck)

$$M_n = F_y Z_x = 36\,ksi\,(150\,in^3) = 5400\,k\text{-}in$$
$$450\,k\text{-}ft$$

Shear Capacity (V_n) (AASHTO 10.48.8.1)

$V_n = 0.58 F_y D t_w C$

Calculate C: $\frac{D}{t_w} < \frac{6000\sqrt{*K}}{\sqrt{F_y}} \Rightarrow 32.9 < 70.71$ $\therefore C = 1$

* $K = 5$ for unstiffened beams & girders

$$V_n = 0.58(36\,ksi)(14.98\,in)(0.455\,in)(1) = 142.3\,k$$

Calculations for 1/4 US Grid

MAIN TRUSS

Stringer W16x89 Capacity

$d=16.8"$ $t_w=.525"$ $b_f=10.4"$ $t_f=0.875"$ $Z_x=175 in^3$

Check Compactness

$\frac{b}{t_f} = 11.9 < 21.7$

$\frac{D}{t_w} = 28.7 < 101.4$ ✓

bracing OK

$\Rightarrow$ Compact $M_U = F_y Z_x = (36 ksi)(175 in^3) = 6300 k\text{-}in = \underline{525 k\text{-}ft}$

Shear Capacity

$\frac{D}{t_w} = 28.7 < 70.71 \Rightarrow C=1$

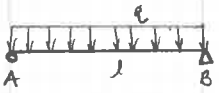
$V_U = 0.58(36 ksi)(16.8" - 2 \times .875")(.525") = \underline{165^k}$

STRINGER LOADS

Main Truss Stringer Dead Loads

- From DL calculations → 0.64 K/Ft / stringer
- Let $l = 20'$

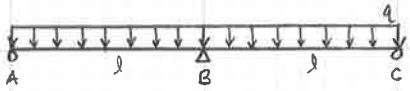
Simple span:



$V_A = V_B = ql/2$

M_{max} @ center $= ql^2/8$

2 span Continuous:



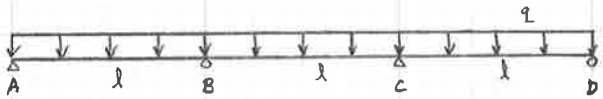
$V_A = V_C = 0.375ql$

$V_B = 1.25ql$

$M^+_{max} = 0.07ql^2$

$M^-_{max} = 0.125ql^2$

3 span Continuous:



$V_A = V_D = 0.400ql$

$V_B = V_C = 1.10ql$

$M^+_{max} = 0.08ql^2$

$M^-_{max} = 0.10ql^2$

- Typ Fascia PL Girders FL 8"x3/4" Web = 3/8" Height = 3'3" → $A = 26.025 in^2$ → $W = 88.7$ K/Ft

Span	Stringer	q* (K/ft)	Moment (k-ft) M^+	Moment (k-ft) M^-	Shear (K) V_{end}	Shear (K) $V_{int.}$	
Simple	W16x67	.710	35.6	0	7.1	—	Can scale other W stringer types off these results
2-span	W16x67	.710	19.9	35.6	5.3	17.8	
3 span	W16x67	.710	22.7	28.4	5.7	15.7	
3 span	W14x61	.704	22.5	28.1	5.6	15.5	
Simple	PL	.733	36.7	0	7.3	—	
2-span	PL	.733	20.5	36.7	5.5	18.3	
3 span	PL	.733	23.5	29.3	5.9	16.1	

★ includes 5% increase in self weight to account for connections & stiffeners

Calculations for 1/8 US Grid

Stringer Load Rating

LLDF:

Straight (Symmetric) Sections of Bridge:

$\frac{S}{5.5}$ for both interior + fascia stringers

$S = 6'-5"$ $S \cong 5'-9\frac{1}{2}"$

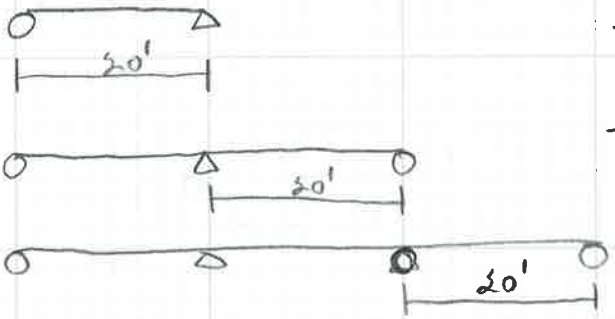
Transverse LLDF => Interior = $\frac{6.417}{5.5} = \underline{1.17}$

Exterior = $\frac{2.875'}{5.5} = \underline{0.52}$

Longitudinal LLDF =>

3 types: Simply supported, 2 Span Cont., 3 Span Cont.

All bays assumed to be 20' long.



Type A1

Type A2

Type A3

Run simple STAAD Model (2D) to determine max moment (+/-) and shear for each stringer type (See attached).

Calculations for 1/8 US Grid

Made By ADK Date 3/28/2012 Job No. P402110046
Checked By CTG Date 3/29/2012

Calculations For: ***CUY-2-1441 MAIN TRUSS***

STAAD Output for Longitudinal LLDF for Stringers

	Type A1		Type A2*				Type A3*			
	Shear	Moment (+)	Shear (end)	Shear (int.)	Moment (+)	Moment (-)	Shear (end)	Shear (int.)	Moment (+)	Moment (-)
	(kips)	(kip-ft)	(kips)	(kips)	(kip-ft)	(kip-ft)	(kips)	(kips)	(kip-ft)	(kip-ft)
HS-20	20.8	80.0	19.4	22.1	66.4	-59.0	19.3	22.1	65.8	-56.7
2F1	12.5	52.0	12.0	13.0	43.5	-24.7	12.0	13.0	43.0	-25.0
3F1	17.1	68.4	16.2	18.1	55.9	-39.4	16.1	18.2	55.2	-40.1
4F1	17.4	77.0	16.3	18.7	60.8	-45.0	16.2	18.8	60.0	-45.7
5C1	16.5	68.4	15.7	17.4	55.9	-41.0	15.6	17.1	58.0	-41.4

*Maximum shear given at end supports and interior supports

```
*Stringer Type A1
STAAD SPACE
START JOB INFORMATION
ENGINEER DATE 22-Mar-11
END JOB INFORMATION
INPUT WIDTH 79
UNIT FEET KIP
JOINT COORDINATES
1 0 0 0; 2 20 0 0;
MEMBER INCIDENCES
1 1 2;
DEFINE MATERIAL START
ISOTROPIC STEEL
E 4.176e+006
POISSON 0.3
DENSITY 0.489024
ALPHA 6e-006
DAMP 0.03
END DEFINE MATERIAL
MEMBER PROPERTY AMERICAN
1 TABLE ST W24X84
CONSTANTS
MATERIAL STEEL ALL
SUPPORTS
2 PINNED
1 FIXED BUT FX MX MY MZ
DEFINE MOVING LOAD
*HS-20
TYPE 1 LOAD 16 16 4
DIST 14 14
*2F1
TYPE 2 LOAD 10 5
DIST 10
*3F1
TYPE 3 LOAD 6 8.5 8.5
DIST 10 4
*4F1
TYPE 4 LOAD 6 7 7 7
DIST 10 4 4
*5C1
TYPE 5 LOAD 6 8.5 8.5 8.5 8.5
DIST 12 4 31 4
*HS-20 Backwards
TYPE 6 LOAD 4 16 16
DIST 14 14
*2F1 Backwards
TYPE 7 LOAD 5 10
DIST 10
*3F1 Backwards
TYPE 8 LOAD 8.5 8.5 6
DIST 4 10
*4F1 Backwards
TYPE 9 LOAD 7 7 7 6
DIST 4 4 10
*5C1 Backwards
TYPE 10 LOAD 8.5 8.5 8.5 8.5 6
DIST 4 31 4 12
*
****HS20
*LOAD GENERATION 1000
*TYPE 1 -28 0 0 XINC 0.1
*LOAD GENERATION 1000
*TYPE 6 -28 0 0 XINC 0.1
**2F1
*LOAD GENERATION 1000
*TYPE 2 -10 0 0 XINC 0.1
*LOAD GENERATION 1000
*TYPE 7 -10 0 0 XINC 0.1
***3F1
*LOAD GENERATION 1000
*TYPE 3 -14 0 0 XINC 0.1
*LOAD GENERATION 1000
*TYPE 8 -14 0 0 XINC 0.1
****4F1
*LOAD GENERATION 1000
*TYPE 4 -18 0 0 XINC 0.1
*LOAD GENERATION 1000
```

Checked By: KRS 3/28/12

```
*Stringer Type A2
STAAD SPACE
START JOB INFORMATION
ENGINEER DATE 22-Mar-11
END JOB INFORMATION
INPUT WIDTH 79
UNIT FEET KIP
JOINT COORDINATES
1 0 0 0; 2 20 0 0; 3 40 0 0;
MEMBER INCIDENCES
1 1 2; 2 2 3;
DEFINE MATERIAL START
ISOTROPIC STEEL
E 4.176e+006
POISSON 0.3
DENSITY 0.489024
ALPHA 6e-006
DAMP 0.03
END DEFINE MATERIAL
MEMBER PROPERTY AMERICAN
1 2 TABLE ST W24X84
CONSTANTS
MATERIAL STEEL ALL
SUPPORTS
2 PINNED
1 3 FIXED BUT FX MX MY MZ
DEFINE MOVING LOAD
*HS-20
TYPE 1 LOAD 16 16 4
DIST 14 14
*2F1
TYPE 2 LOAD 10 5
DIST 10
*3F1
TYPE 3 LOAD 6 8.5 8.5
DIST 10 4
*4F1
TYPE 4 LOAD 6 7 7 7
DIST 10 4 4
*5C1
TYPE 5 LOAD 6 8.5 8.5 8.5 8.5
DIST 12 4 31 4
*HS-20 Backwards
TYPE 6 LOAD 4 16 16
DIST 14 14
*2F1 Backwards
TYPE 7 LOAD 5 10
DIST 10
*3F1 Backwards
TYPE 8 LOAD 8.5 8.5 6
DIST 4 10
*4F1 Backwards
TYPE 9 LOAD 7 7 7 6
DIST 4 4 10
*5C1 Backwards
TYPE 10 LOAD 8.5 8.5 8.5 8.5 6
DIST 4 31 4 12
*
****HS20
*LOAD GENERATION 1000
*TYPE 1 -28 0 0 XINC 0.1
*LOAD GENERATION 1000
*TYPE 6 -28 0 0 XINC 0.1
**2F1
*LOAD GENERATION 1000
*TYPE 2 -10 0 0 XINC 0.1
*LOAD GENERATION 1000
*TYPE 7 -10 0 0 XINC 0.1
***3F1
*LOAD GENERATION 1000
*TYPE 3 -14 0 0 XINC 0.1
*LOAD GENERATION 1000
*TYPE 8 -14 0 0 XINC 0.1
****4F1
*LOAD GENERATION 1000
*TYPE 4 -18 0 0 XINC 0.1
*LOAD GENERATION 1000
```

Checked By: KBS 3/28/12

```
*Stringer Type A3
STAAD SPACE
START JOB INFORMATION
ENGINEER DATE 22-Mar-11
END JOB INFORMATION
INPUT WIDTH 79
UNIT FEET KIP
JOINT COORDINATES
1 0 0 0; 2 20 0 0; 3 40 0 0; 4 60 0 0;
MEMBER INCIDENCES
1 1 2; 2 2 3; 3 3 4;
DEFINE MATERIAL START
ISOTROPIC STEEL
E 4.176e+006
POISSON 0.3
DENSITY 0.489024
ALPHA 6e-006
DAMP 0.03
END DEFINE MATERIAL
MEMBER PROPERTY AMERICAN
1 TO 3 TABLE ST W24X84
CONSTANTS
MATERIAL STEEL ALL
SUPPORTS
2 PINNED
1 3 4 FIXED BUT FX MX MY MZ
DEFINE MOVING LOAD
*HS-20
TYPE 1 LOAD 16 16 4
DIST 14 14
*2F1
TYPE 2 LOAD 10 5
DIST 10
*3F1
TYPE 3 LOAD 6 8.5 8.5
DIST 10 4
*4F1
TYPE 4 LOAD 6 7 7 7
DIST 10 4 4
*5C1
TYPE 5 LOAD 6 8.5 8.5 8.5 8.5
DIST 12 4 31 4
*HS-20 Backwards
TYPE 6 LOAD 4 16 16
DIST 14 14
*2F1 Backwards
TYPE 7 LOAD 5 10
DIST 10
*3F1 Backwards
TYPE 8 LOAD 8.5 8.5 6
DIST 4 10
*4F1 Backwards
TYPE 9 LOAD 7 7 7 6
DIST 4 4 10
*5C1 Backwards
TYPE 10 LOAD 8.5 8.5 8.5 8.5 6
DIST 4 31 4 12
*
****HS20
*LOAD GENERATION 1000
*TYPE 1 -28 0 0 XINC 0.1
*LOAD GENERATION 1000
*TYPE 6 -28 0 0 XINC 0.1
**2F1
*LOAD GENERATION 1000
*TYPE 2 -10 0 0 XINC 0.1
*LOAD GENERATION 1000
*TYPE 7 -10 0 0 XINC 0.1
***3F1
*LOAD GENERATION 1000
*TYPE 3 -14 0 0 XINC 0.1
*LOAD GENERATION 1000
*TYPE 8 -14 0 0 XINC 0.1
****4F1
*LOAD GENERATION 1000
*TYPE 4 -18 0 0 XINC 0.1
*LOAD GENERATION 1000
```

Checked By: KES
3/29/12

STRINGER RATING FACTORS

Made By DWC Date 6/20/2012 Job No. P402110046
Checked By CTG Date 6/20/2012

Calculations For ***CUY-2-1441***

Revisions to Stringer Analysis

- Isolated continuous stringers have copes over intermediate supports. Because the stringers are not full depth in these locations, the full negative moment cannot develop.
- Per discussion with ODOT May 29, 2012, any continuous stringer that is coped over intermediate supports should be re-analyzed as simply supported.
- Because of the large volume of stringers that fit this condition, the results of the original analysis were evaluated in order to determine which stringers could potentially govern the stringer ratings. Calculations were performed for select stringers in order to determine governing load ratings for each section.
- Calculations for the revised stringers are included on the following page(s). Any data in the original rating calculations that has now been superceded remains in the volume for informational purposes, but has been crossed out.

Made By DWC Date 5/30/2012 Job No. P402110046
Checked By CTG Date 6/7/2012

Calculations For ***CUY-2-1441***

Main Truss Stringers

- Changing from continuous to simple span will slightly increase shear and will increase moment
- Check both shear and moment for stringers in the main truss spans

- Moment capacities vary based on full height section, while shear could be controlled by copes or full sections
- Due to similar span lengths and transverse spacings, all simple span, 2-span, and 3-span stringers have the same load effects (see LLDF Summary Table.xlsx)
- Majority of interior stringers are either W14x61 or W16x67 (with isolated W16x77 and W16x89).

- Find A2 and A3 stringers with governing capacities for both moment and shear, as well as curved and non-curved. A total of up to eight stringers will need to be checked.

Load Case	Governing Rating Factor	
	Inventory	Operating
HS20	0.87	1.46
2F1	---	2.24
3F1	---	1.71
4F1	---	1.52
5C1	---	1.71

Revised Forces

Standard A2 or A3 for Moment (Smallest Section: W14x61)

Load Case	Positive Moment		Capacity	LLDF	Impact Factor	Centrifugal Force	Rating Factor	
	DL (k-ft)	LL+I (k-ft)	(k-ft)				Inventory	Operating
HS20	35.6	80	306	1.17	1.3	0.00%	0.98	1.64
2F1	35.6	52	306	1.17	1.3	0.00%	---	2.53
3F1	35.6	68.4	306	1.17	1.3	0.00%	---	1.92
4F1	35.6	77	306	1.17	1.3	0.00%	---	1.71
5C1	35.6	68.4	306	1.17	1.3	0.00%	---	1.92

Curved A2 or A3 for Moment (Smallest Section: W14x61)

Load Case	Positive Moment		Capacity	LLDF	Impact Factor	Centrifugal Force	Rating Factor	
	DL (k-ft)	LL+I (k-ft)	(k-ft)				Inventory	Operating
HS20	35.6	80	306	1.17	1.3	16.30%	0.87	1.46
2F1	35.6	52	306	1.17	1.3	16.30%	---	2.24
3F1	35.6	68.4	306	1.17	1.3	16.30%	---	1.71
4F1	35.6	77	306	1.17	1.3	16.30%	---	1.52
5C1	35.6	68.4	306	1.17	1.3	16.30%	---	1.71

Made By DWC Date 5/30/2012 Job No. P402110046
Checked By CTG Date 6/7/2012

Calculations For ***CUY-2-1441***

Standard A3 for Shear (Smallest Section: S1-4 in Span 8)

* Standard A2 does not govern because minimum full height capacity is greater than the controlling coped section

	Shear						Rating Factor	
	DL	LL+I	Capacity		Impact	Centrifugal		
Load Case	(kips)	(kips)	(kips)	LLDF	Factor	Force	Inventory	Operating
HS20	7.1	20.8	87.82	1.17	1.3	0.00%	1.14	1.91
2F1	7.1	12.5	87.82	1.17	1.3	0.00%	---	3.18
3F1	7.1	17.1	87.82	1.17	1.3	0.00%	---	2.32
4F1	7.1	17.4	87.82	1.17	1.3	0.00%	---	2.28
5C1	7.1	16.5	87.82	1.17	1.3	0.00%	---	2.41

Curved A3 for Shear (Smallest Section: S1-1 in Span 10)

* Curved A2 does not govern because minimum full height capacity is greater than the controlling coped section

	Shear						Rating Factor	
	DL	LL+I	Capacity		Impact	Centrifugal		
Load Case	(kips)	(kips)	(kips)	LLDF	Factor	Force	Inventory	Operating
HS20	7.1	20.8	76.7	1.17	1.3	16.30%	0.87	1.46
2F1	7.1	12.5	76.7	1.17	1.3	16.30%	---	2.43
3F1	7.1	17.1	76.7	1.17	1.3	16.30%	---	1.77
4F1	7.1	17.4	76.7	1.17	1.3	16.30%	---	1.74
5C1	7.1	16.5	76.7	1.17	1.3	16.30%	---	1.84

Calculations f **CUY-2-1441**

Made By CTG Date 3/29/2012 Job No. P402110046
Checked By ADK Date 4/3/2012

Controlling Simple Span Stringers - Tangent Bridge Section

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear			Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k			Inventory	Operating	Inventory	Operating
HS-20	4	F1-1	End	1084.01	183.52	1084.01	183.52	-	7.30	36.70	7.30	-	20.80	80.00	20.80	0.52	1.30	8.83	14.74	5.70	9.52
	4	F1-1	End	227.55	80.26	227.55	80.26	-	7.30	36.70	7.30	-	20.80	80.00	20.80	0.52	1.30	1.53	2.56	2.32	3.87
	4	S1-1	End	152.07	146.21	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.66	2.78
	2	S1-3	End	-	122.46	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.65	2.75
	4	S2-1	End	158.16	148.27	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.66	2.78
	2	S2-3	End	-	121.93	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.64	2.74
	4	S3-1	End	186.00	143.92	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.66	2.78
	8	S3-5	End	-	89.47	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.17	1.95
	2	S4-3	End	129.81	168.86	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.66	2.78
	8	S5-5	End	127.26	137.96	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.66	2.78
	2	S5-3	End	-	144.90	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.66	2.78
	4	S6-1	End	190.77	158.58	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.66	2.78
	8	S6-5	End	-	89.88	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.17	1.96
	4	S7-1	End	190.77	158.58	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.66	2.78
	8	S7-5	End	-	89.88	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.17	1.96
	8	S8-5	End	127.26	137.96	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.66	2.78
	2	S8-3	End	-	144.90	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.66	2.78
	2	S9-3	End	129.81	168.86	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.66	2.78
	4	S10-6	End	107.16	116.12	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.56	2.60
	8	S10-5	End	-	89.47	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.17	1.95
	4	S11-1	End	158.16	148.27	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.66	2.78
	2	S11-3	End	-	121.93	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.64	2.74
	4	S12-1	End	152.07	146.21	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.66	2.78
	2	S12-3	End	-	122.46	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.30	2.17	1.65	2.75
	4	F2-1	End	1084.01	183.52	1084.01	183.52	-	7.30	36.70	7.30	-	20.80	80.00	20.80	0.52	1.30	8.83	14.74	5.70	9.52
	4	F2-1	End	227.55	80.26	227.55	80.26	-	7.30	36.70	7.30	-	20.80	80.00	20.80	0.52	1.30	1.53	2.56	2.32	3.87
2F1	4	F1-1	End	1084.01	183.52	1084.01	183.52	-	7.30	36.70	7.30	-	12.50	52.00	12.50	0.52	1.30	---	22.68	---	15.84
	4	F1-1	End	227.55	80.26	227.55	80.26	-	7.30	36.70	7.30	-	12.50	52.00	12.50	0.52	1.30	---	3.94	---	6.44
	4	S1-1	End	152.07	146.21	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.62
	2	S1-3	End	-	122.46	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.58
	4	S2-1	End	158.16	148.27	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.62
	2	S2-3	End	-	121.93	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.56
	4	S3-1	End	186.00	143.92	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.62
	8	S3-5	End	-	89.47	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	3.25
	2	S4-3	End	129.81	168.86	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.62
	8	S5-5	End	127.26	137.96	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.62
	2	S5-3	End	-	144.90	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.62
	4	S6-1	End	190.77	158.58	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.62
	8	S6-5	End	-	89.88	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	3.26
	4	S7-1	End	190.77	158.58	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.62
	8	S7-5	End	-	89.88	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	3.26
	8	S8-5	End	127.26	137.96	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.62
	2	S8-3	End	-	144.90	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.62
	2	S9-3	End	129.81	168.86	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.62
	4	S10-6	End	107.16	116.12	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.32
	8	S10-5	End	-	89.47	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	3.25
	4	S11-1	End	158.16	148.27	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.62
	2	S11-3	End	-	121.93	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.56
	4	S12-1	End	152.07	146.21	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.62
	2	S12-3	End	-	122.46	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	---	3.34	---	4.58
	4	F2-1	End	1084.01	183.52	1084.01	183.52	-	7.30	36.70	7.30	-	12.50	52.00	12.50	0.52	1.30	---	22.68	---	15.84
	4	F2-1	End	227.55	80.26	227.55	80.26	-	7.30	36.70	7.30	-	12.50	52.00	12.50	0.52	1.30	---	3.94	---	6.44
3F1	4	F1-1	End	1084.01	183.52	1084.01	183.52	-	7.30	36.70	7.30	-	17.10	68.40	17.10	0.52	1.30	---	17.24	---	11.58
	4	F1-1	End	227.55	80.26	227.55	80.26	-	7.30	36.70	7.30	-	17.10	68.40	17.10	0.52	1.30	---	2.99	---	4.71
	4	S1-1	End	152.07	146.21	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.38
	2	S1-3	End	-	122.46	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.35
	4	S2-1	End	158.16	148.27	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.38
	2	S2-3	End	-	121.93	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.33
	4	S3-1	End	186.00	143.92	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.38
	8	S3-5	End	-	89.47	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	2.37
	2	S4-3	End	129.81	168.86	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.38
	8	S5-5	End	127.26	137.96	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.38
	2	S5-3	End	-	144.90	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.38
	4	S6-1	End	190.77	158.58	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.38
	8	S6-5	End	-	89.88	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	2.39
	4	S7-1	End	190.77	158.58	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.38
	8	S7-5	End	-	89.88	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	2.39
	8	S8-5	End	127.26	137.96	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.38
	2	S8-3	End	-	144.90	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.38
	2	S9-3	End	129.81	168.86	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.38
	4	S10-6	End	107.16	116.12	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.16
	8	S10-5	End	-	89.47	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	2.37
	4	S11-1	End	158.16	148.27	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.38
	2	S11-3	End	-	121.93	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.33
	4	S12-1	End	152.07	146.21	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.38
	2	S12-3	End	-	122.46	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	---	2.54	---	3.35
	4	F2-1	End	1084.01	183.52	1084.01	183.52	-	7.30	36.70	7.30	-	17.10	68.40	17.10	0.52	1.30	---	17.24	---	11.58
	4	F2-1	End	227.55	80.26	227.55	80.26	-	7.30	36.70	7.30	-	17.10	68.40	17.10	0.52	1.30	---	2.99	---	4.71

TranSystems

Calculations f **CUY-2-1441**

Made By CTG Date 3/29/2012 Job No. P402110046

Checked By ADK Date 4/3/2012

Controlling Simple Span Stringers - Tangent Bridge Section

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear			Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k			Inventory	Operating	Inventory	Operating
4F1	4	F1-1	End	1084.01	183.52	1084.01	183.52	-	7.30	36.70	7.30	-	17.40	77.00	17.40	0.52	1.30	---	15.31	---	11.38
	4	F1-1	End	227.55	80.26	227.55	80.26	-	7.30	36.70	7.30	-	17.40	77.00	17.40	0.52	1.30	---	2.66	---	4.63
	4	S1-1	End	152.07	146.21	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.32
	2	S1-3	End	-	122.46	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.29
	4	S2-1	End	158.16	148.27	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.32
	2	S2-3	End	-	121.93	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.28
	4	S3-1	End	186.00	143.92	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.32
	8	S3-5	End	-	89.47	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	**2.33**
	2	S4-3	End	129.81	168.86	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.32
	8	S5-5	End	127.26	137.96	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.32
	2	S5-3	End	-	144.90	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.32
	4	S6-1	End	190.77	158.58	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.32
	8	S6-5	End	-	89.88	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	2.34
	4	S7-1	End	190.77	158.58	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.32
	8	S7-5	End	-	89.88	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	2.34
	8	S8-5	End	127.26	137.96	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.32
	2	S8-3	End	-	144.90	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.32
	2	S9-3	End	129.81	168.86	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.32
	4	S10-6	End	107.16	116.12	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.11
	8	S10-5	End	-	89.47	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	**2.33**
	4	S11-1	End	158.16	148.27	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.32
	2	S11-3	End	-	121.93	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.28
	4	S12-1	End	152.07	146.21	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.32
	2	S12-3	End	-	122.46	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	---	**2.26**	---	3.29
	4	F2-1	End	1084.01	183.52	1084.01	183.52	-	7.30	36.70	7.30	-	17.40	77.00	17.40	0.52	1.30	---	15.31	---	11.38
	4	F2-1	End	227.55	80.26	227.55	80.26	-	7.30	36.70	7.30	-	17.40	77.00	17.40	0.52	1.30	---	2.66	---	4.63
5C1	4	F1-1	End	1084.01	183.52	1084.01	183.52	-	7.30	36.70	7.30	-	16.50	68.40	16.50	0.52	1.30	---	17.24	---	12.00
	4	F1-1	End	227.55	80.26	227.55	80.26	-	7.30	36.70	7.30	-	16.50	68.40	16.50	0.52	1.30	---	2.99	---	4.88
	4	S1-1	End	152.07	146.21	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.50
	2	S1-3	End	-	122.46	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.47
	4	S2-1	End	158.16	148.27	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.50
	2	S2-3	End	-	121.93	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.45
	4	S3-1	End	186.00	143.92	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.50
	8	S3-5	End	-	89.47	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	**2.46**
	2	S4-3	End	129.81	168.86	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.50
	8	S5-5	End	127.26	137.96	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.50
	2	S5-3	End	-	144.90	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.50
	4	S6-1	End	190.77	158.58	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.50
	8	S6-5	End	-	89.88	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	2.47
	4	S7-1	End	190.77	158.58	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.50
	8	S7-5	End	-	89.88	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	2.47
	8	S8-5	End	127.26	137.96	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.50
	2	S8-3	End	-	144.90	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.50
	2	S9-3	End	129.81	168.86	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.50
	4	S10-6	End	107.16	116.12	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.28
	8	S10-5	End	-	89.47	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	**2.46**
	4	S11-1	End	158.16	148.27	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.50
	2	S11-3	End	-	121.93	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.45
	4	S12-1	End	152.07	146.21	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.50
	2	S12-3	End	-	122.46	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	---	**2.54**	---	3.47
	4	F2-1	End	1084.01	183.52	1084.01	183.52	-	7.30	36.70	7.30	-	16.50	68.40	16.50	0.52	1.30	---	17.24	---	12.00
	4	F2-1	End	227.55	80.26	227.55	80.26	-	7.30	36.70	7.30	-	16.50	68.40	16.50	0.52	1.30	---	2.99	---	4.88

TranSystems

Calculations For CUY-2-1441

Made By CTG Date 3/30/2012 Job No. P402110046

Checked By ADK Date 4/3/2012

Controlling Simple Span Stringers - Curved Bridge Sections

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Centrifugal Effect	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear				Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k				Inventory	Operating	Inventory	Operating
HS-20	6	F1-1	End	1093.88	182.29	1093.88	182.29	0.00	8.00	40.00	8.00	-	20.80	80.00	20.80	0.52	1.30	1.163	6.29	8.78	3.99	5.57
	6	F1-6	End	1898.45	107.70	1898.45	107.70	-	7.90	39.80	7.90	-	20.80	80.00	20.80	0.52	1.30	1.163	11.14	15.56	2.26	3.16
	6	S1-6	End	359.88	213.81	450.00	142.30	-	7.20	36.20	7.20	-	20.80	80.00	20.80	1.17	1.30	1.163	1.08	1.51	1.37	1.91
	6	S2-6	End	359.88	213.81	450.00	142.30	-	7.20	36.20	7.20	-	20.80	80.00	20.80	1.17	1.30	1.163	1.08	1.51	1.37	1.91
	6	S3-6	End	359.88	213.81	450.00	142.30	-	7.20	36.20	7.20	-	20.80	80.00	20.80	1.17	1.30	1.163	1.08	1.51	1.37	1.91
	6	S4-1	End	326.55	198.79	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.163	0.92	1.29	1.18	1.65
	5	S5-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	20.80	80.00	20.80	1.17	1.30	1.163	**0.70**	**0.97**	**0.92**	**1.29**
	5	S6-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	20.80	80.00	20.80	1.17	1.30	1.163	**0.70**	**0.97**	**0.92**	**1.29**
	5	S7-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	20.80	80.00	20.80	1.17	1.30	1.163	**0.70**	**0.97**	**0.92**	**1.29**
	5	S8-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	20.80	80.00	20.80	1.17	1.30	1.163	**0.70**	**0.97**	**0.92**	**1.29**
	5	S9-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	20.80	80.00	20.80	1.17	1.30	1.163	**0.70**	**0.97**	**0.92**	**1.29**
	5	S10-3	End	278.16	185.38	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.163	0.92	1.29	1.18	1.65
	5	S11-3	End	208.95	164.77	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.163	0.92	1.29	1.18	1.65
	5	S12-3	End	173.58	153.43	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.163	0.92	1.29	1.18	1.65
	6	S12-4	End	-	99.98	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.163	0.92	1.29	0.94	1.31
	6	F2-1	End	245.53	86.13	245.53	86.13	-	7.30	36.80	7.30	-	20.80	80.00	20.80	0.52	1.30	1.163	1.19	1.67	1.78	2.48
	10	F1-3	End	986.68	175.11	986.68	175.11	-	7.30	36.90	7.30	-	20.80	80.00	20.80	0.52	1.30	1.163	5.66	7.91	3.84	5.37
	10	F1-9	End	1337.17	139.03	1337.17	139.03	-	7.50	37.50	7.50	-	20.80	80.00	20.80	0.52	1.30	1.163	7.77	10.86	3.00	4.19
	10	S1-3	End	218.13	172.24	450.00	142.30	-	7.20	36.20	7.20	-	20.80	80.00	20.80	1.17	1.30	1.163	1.08	1.51	1.37	1.91
	10	S1-3	End	-	153.60	450.00	142.30	-	7.20	36.20	7.20	-	20.80	80.00	20.80	1.17	1.30	1.163	1.08	1.51	1.37	1.91
	10	S1-4	End	219.45	168.89	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.163	0.92	1.29	1.18	1.65
	10	S2-3	End	218.13	172.24	450.00	142.30	-	7.20	36.20	7.20	-	20.80	80.00	20.80	1.17	1.30	1.163	1.08	1.51	1.37	1.91
	10	S2-3	End	-	149.08	450.00	142.30	-	7.20	36.20	7.20	-	20.80	80.00	20.80	1.17	1.30	1.163	1.08	1.51	1.37	1.91
	10	S2-9	End	438.33	243.32	525.00	165.00	-	7.40	37.20	7.40	-	20.80	80.00	20.80	1.17	1.30	1.163	1.28	1.78	1.60	2.24
	10	S3-3	End	-	141.96	450.00	142.30	-	7.20	36.20	7.20	-	20.80	80.00	20.80	1.17	1.30	1.163	1.08	1.51	1.37	1.91
	10	S3-3	End	246.60	181.74	450.00	142.30	-	7.20	36.20	7.20	-	20.80	80.00	20.80	1.17	1.30	1.163	1.08	1.51	1.37	1.91
	10	S4-3	End	128.40	141.37	450.00	142.30	-	7.20	36.20	7.20	-	20.80	80.00	20.80	1.17	1.30	1.163	1.08	1.51	1.36	1.90
	10	S5-3	End	146.67	148.49	450.00	142.30	-	7.20	36.20	7.20	-	20.80	80.00	20.80	1.17	1.30	1.163	1.08	1.51	1.37	1.91
	10	S6-3	End	158.16	148.27	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.163	0.92	1.29	1.18	1.65
	10	S7-3	End	170.46	151.55	306.00	98.74	-	7.00	35.30	7.00	-	20.80	80.00	20.80	1.17	1.30	1.163	**0.70**	**0.97**	**0.92**	**1.29**
	10	S8-3	End	191.40	157.42	306.00	98.74	-	7.00	35.30	7.00	-	20.80	80.00	20.80	1.17	1.30	1.163	**0.70**	**0.97**	**0.92**	**1.29**
	10	S9-3	End	208.95	163.29	306.00	98.74	-	7.00	35.30	7.00	-	20.80	80.00	20.80	1.17	1.30	1.163	**0.70**	**0.97**	**0.92**	**1.29**
	10	S10-3	End	208.95	163.29	306.00	98.74	-	7.00	35.30	7.00	-	20.80	80.00	20.80	1.17	1.30	1.163	**0.70**	**0.97**	**0.92**	**1.29**
	10	S10-9	End	181.71	156.52	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.163	0.92	1.29	1.18	1.65
	10	S11-3	End	229.74	169.17	306.00	98.74	-	7.00	35.30	7.00	-	20.80	80.00	20.80	1.17	1.30	1.163	**0.70**	**0.97**	**0.92**	**1.29**
	10	S11-9	End	208.95	164.77	390.00	123.50	-	7.10	35.60	7.10	-	20.80	80.00	20.80	1.17	1.30	1.163	0.92	1.29	1.18	1.65
2F1	6	F1-1	End	1093.88	182.29	1093.88	182.29	0.00	8.00	40.00	8.00	-	12.50	52.00	12.50	0.52	1.30	1.163	---	13.51	---	9.27
	6	F1-6	End	1898.45	107.70	1898.45	107.70	-	7.90	39.80	7.90	-	12.50	52.00	12.50	0.52	1.30	1.163	---	23.94	---	5.25
	6	S1-6	End	359.88	213.81	450.00	142.30	-	7.20	36.20	7.20	-	12.50	52.00	12.50	1.17	1.30	1.163	---	2.32	---	3.19
	6	S2-6	End	359.88	213.81	450.00	142.30	-	7.20	36.20	7.20	-	12.50	52.00	12.50	1.17	1.30	1.163	---	2.32	---	3.19
	6	S3-6	End	359.88	213.81	450.00	142.30	-	7.20	36.20	7.20	-	12.50	52.00	12.50	1.17	1.30	1.163	---	2.32	---	3.19
	6	S4-1	End	326.55	198.79	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	1.163	---	1.98	---	2.74
	5	S5-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	12.50	52.00	12.50	1.17	1.30	1.163	---	**1.50**	---	**2.15**
	5	S6-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	12.50	52.00	12.50	1.17	1.30	1.163	---	**1.50**	---	**2.15**
	5	S7-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	12.50	52.00	12.50	1.17	1.30	1.163	---	**1.50**	---	**2.15**
	5	S8-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	12.50	52.00	12.50	1.17	1.30	1.163	---	**1.50**	---	**2.15**
	5	S9-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	12.50	52.00	12.50	1.17	1.30	1.163	---	**1.50**	---	**2.15**
	5	S10-3	End	278.16	185.38	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	1.163	---	1.98	---	2.74
	5	S11-3	End	208.95	164.77	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	1.163	---	1.98	---	2.74
	5	S12-3	End	173.58	153.43	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	1.163	---	1.98	---	2.74
	6	S12-4	End	-	99.98	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	1.163	---	1.98	---	2.17
	6	F2-1	End	245.53	86.13	245.53	86.13	-	7.30	36.80	7.30	-	12.50	52.00	12.50	0.52	1.30	1.163	---	2.56	---	4.13
	10	F1-3	End	986.68	175.11	986.68	175.11	-	7.30	36.90	7.30	-	12.50	52.00	12.50	0.52	1.30	1.163	---	12.17	---	8.93
	10	F1-9	End	1337.17	139.03	1337.17	139.03	-	7.50	37.50	7.50	-	12.50	52.00	12.50	0.52	1.30	1.163	---	16.70	---	6.97
	10	S1-3	End	218.13	172.24	450.00	142.30	-	7.20	36.20	7.20	-	12.50	52.00	12.50	1.17	1.30	1.163	---	2.32	---	3.19
	10	S1-3	End	-	153.60	450.00	142.30	-	7.20	36.20	7.20	-	12.50	52.00	12.50	1.17	1.30	1.163	---	2.32	---	3.19
	10	S1-4	End	219.45	168.89	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	1.163	---	1.98	---	2.74
	10	S2-3	End	218.13	172.24	450.00	142.30	-	7.20	36.20	7.20	-	12.50	52.00	12.50	1.17	1.30	1.163	---	2.32	---	3.19
	10	S2-3	End	-	149.08	450.00	142.30	-	7.20	36.20	7.20	-	12.50	52.00	12.50	1.17	1.30	1.163	---	2.32	---	3.19
	10	S2-9	End	438.33	243.32	525.00	165.00	-	7.40	37.20	7.40	-	12.50	52.00	12.50	1.17	1.30	1.163	---	2.75	---	3.72
	10	S3-3	End	-	141.96	450.00	142.30	-	7.20	36.20	7.20	-	12.50	52.00	12.50	1.17	1.30	1.163	---	2.32	---	3.18
	10	S3-3	End	246.60	181.74	450.00	142.30	-	7.20	36.20	7.20	-	12.50	52.00	12.50	1.17	1.30	1.163	---	2.32	---	3.19
	10	S4-3	End	128.40	141.37	450.00	142.30	-	7.20	36.20	7.20	-	12.50	52.00	12.50	1.17	1.30	1.163	---	2.32	---	3.16
	10	S5-3	End	146.67	148.49	450.00	142.30	-	7.20	36.20	7.20	-	12.50	52.00	12.50	1.17	1.30	1.163	---	2.32	---	3.19
	10	S6-3	End	158.16	148.27	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	1.163	---	1.98	---	2.74
	10	S7-3	End	170.46	151.55	306.00	98.74	-	7.00	35.30	7.00	-	12.50	52.00	12.50	1.17	1.30	1.163	---	**1.50**	---	**2.15**
	10	S8-3	End	191.40	157.42	306.00	98.74	-	7.00	35.30	7.00	-	12.50	52.00	12.50	1.17	1.30	1.163	---	**1.50**	---	**2.15**
	10	S9-3	End	208.95	163.29	306.00	98.74	-	7.00	35.30	7.00	-	12.50	52.00	12.50	1.17	1.30	1.163	---	**1.50**	---	**2.15**
	10	S10-3	End	208.95	163.29	306.00	98.74	-	7.00	35.30	7.00	-	12.50	52.00	12.50	1.17	1.30	1.163	---	**1.50**	---	**2.15**
	10	S10-9	End	181.71	156.52	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	1.163	---	1.98	---	2.74
	10	S11-3	End	229.74	169.17	306.00	98.74	-	7.00	35.30	7.00	-	12.50	52.00	12.50	1.17	1.30	1.163	---	**1.50**	---	**2.15**
	10	S11-9	End	208.95	164.77	390.00	123.50	-	7.10	35.60	7.10	-	12.50	52.00	12.50	1.17	1.30	1.163	---	1.98	---	2.74

TranSystems

Calculations For CUY-2-1441

Made By CTG Date 3/30/2012
Checked By ADK Date 4/3/2012

Job No. P402110046

Controlling Simple Span Stringers - Curved Bridge Sections

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Centrifugal Effect	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear				Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k				Inventory	Operating	Inventory	Operating
3F1	6	F1-1	End	1093.88	182.29	1093.88	182.29	0.00	8.00	40.00	8.00	-	17.10	68.40	17.10	0.52	1.30	1.163	---	10.27	---	6.78
	6	F1-6	End	1898.45	107.70	1898.45	107.70	-	7.90	39.80	7.90	-	17.10	68.40	17.10	0.52	1.30	1.163	---	18.20	---	3.84
	6	S1-6	End	359.88	213.81	450.00	142.30	-	7.20	36.20	7.20	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.76	---	2.33
	6	S2-6	End	359.88	213.81	450.00	142.30	-	7.20	36.20	7.20	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.76	---	2.33
	6	S3-6	End	359.88	213.81	450.00	142.30	-	7.20	36.20	7.20	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.76	---	2.33
	6	S4-1	End	326.55	198.79	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.51	---	2.00
	5	S5-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	17.10	68.40	17.10	1.17	1.30	1.163	---	**1.14**	---	**1.57**
	5	S6-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	17.10	68.40	17.10	1.17	1.30	1.163	---	**1.14**	---	**1.57**
	5	S7-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	17.10	68.40	17.10	1.17	1.30	1.163	---	**1.14**	---	**1.57**
	5	S8-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	17.10	68.40	17.10	1.17	1.30	1.163	---	**1.14**	---	**1.57**
	5	S9-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	17.10	68.40	17.10	1.17	1.30	1.163	---	**1.14**	---	**1.57**
	5	S10-3	End	278.16	185.38	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.51	---	2.00
	5	S11-3	End	208.95	164.77	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.51	---	2.00
	5	S12-3	End	173.58	153.43	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.51	---	2.00
	6	S12-4	End	-	99.98	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.51	---	1.59
	6	F2-1	End	245.53	86.13	245.53	86.13	-	7.30	36.80	7.30	-	17.10	68.40	17.10	0.52	1.30	1.163	---	1.95	---	3.02
	10	F1-3	End	986.68	175.11	986.68	175.11	-	7.30	36.90	7.30	-	17.10	68.40	17.10	0.52	1.30	1.163	---	9.25	---	6.53
	10	F1-9	End	1337.17	139.03	1337.17	139.03	-	7.50	37.50	7.50	-	17.10	68.40	17.10	0.52	1.30	1.163	---	12.70	---	5.10
	10	S1-3	End	218.13	172.24	450.00	142.30	-	7.20	36.20	7.20	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.76	---	2.33
	10	S1-3	End	-	153.60	450.00	142.30	-	7.20	36.20	7.20	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.76	---	2.33
	10	S1-4	End	219.45	168.89	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.51	---	2.00
	10	S2-3	End	218.13	172.24	450.00	142.30	-	7.20	36.20	7.20	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.76	---	2.33
	10	S2-3	End	-	149.08	450.00	142.30	-	7.20	36.20	7.20	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.76	---	2.33
	10	S2-9	End	438.33	243.32	525.00	165.00	-	7.40	37.20	7.40	-	17.10	68.40	17.10	1.17	1.30	1.163	---	2.09	---	2.72
	10	S3-3	End	-	141.96	450.00	142.30	-	7.20	36.20	7.20	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.76	---	2.32
	10	S3-3	End	246.60	181.74	450.00	142.30	-	7.20	36.20	7.20	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.76	---	2.33
	10	S4-3	End	128.40	141.37	450.00	142.30	-	7.20	36.20	7.20	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.76	---	2.31
	10	S5-3	End	146.67	148.49	450.00	142.30	-	7.20	36.20	7.20	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.76	---	2.33
	10	S6-3	End	158.16	148.27	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.51	---	2.00
	10	S7-3	End	170.46	151.55	306.00	98.74	-	7.00	35.30	7.00	-	17.10	68.40	17.10	1.17	1.30	1.163	---	**1.14**	---	**1.57**
	10	S8-3	End	191.40	157.42	306.00	98.74	-	7.00	35.30	7.00	-	17.10	68.40	17.10	1.17	1.30	1.163	---	**1.14**	---	**1.57**
	10	S9-3	End	208.95	163.29	306.00	98.74	-	7.00	35.30	7.00	-	17.10	68.40	17.10	1.17	1.30	1.163	---	**1.14**	---	**1.57**
	10	S10-3	End	208.95	163.29	306.00	98.74	-	7.00	35.30	7.00	-	17.10	68.40	17.10	1.17	1.30	1.163	---	**1.14**	---	**1.57**
	10	S10-9	End	181.71	156.52	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.51	---	2.00
	10	S11-3	End	229.74	169.17	306.00	98.74	-	7.00	35.30	7.00	-	17.10	68.40	17.10	1.17	1.30	1.163	---	**1.14**	---	**1.57**
	10	S11-9	End	208.95	164.77	390.00	123.50	-	7.10	35.60	7.10	-	17.10	68.40	17.10	1.17	1.30	1.163	---	1.51	---	2.00
4F1	6	F1-1	End	1093.88	182.29	1093.88	182.29	0.00	8.00	40.00	8.00	-	17.40	77.00	17.40	0.52	1.30	1.163	---	9.12	---	6.66
	6	F1-6	End	1898.45	107.70	1898.45	107.70	-	7.90	39.80	7.90	-	17.40	77.00	17.40	0.52	1.30	1.163	---	16.17	---	3.77
	6	S1-6	End	359.88	213.81	450.00	142.30	-	7.20	36.20	7.20	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.57	---	2.29
	6	S2-6	End	359.88	213.81	450.00	142.30	-	7.20	36.20	7.20	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.57	---	2.29
	6	S3-6	End	359.88	213.81	450.00	142.30	-	7.20	36.20	7.20	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.57	---	2.29
	6	S4-1	End	326.55	198.79	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.34	---	1.97
	5	S5-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	17.40	77.00	17.40	1.17	1.30	1.163	---	**1.01**	---	**1.54**
	5	S6-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	17.40	77.00	17.40	1.17	1.30	1.163	---	**1.01**	---	**1.54**
	5	S7-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	17.40	77.00	17.40	1.17	1.30	1.163	---	**1.01**	---	**1.54**
	5	S8-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	17.40	77.00	17.40	1.17	1.30	1.163	---	**1.01**	---	**1.54**
	5	S9-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	17.40	77.00	17.40	1.17	1.30	1.163	---	**1.01**	---	**1.54**
	5	S10-3	End	278.16	185.38	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.34	---	1.97
	5	S11-3	End	208.95	164.77	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.34	---	1.97
	5	S12-3	End	173.58	153.43	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.34	---	1.97
	6	S12-4	End	-	99.98	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.34	---	1.56
	6	F2-1	End	245.53	86.13	245.53	86.13	-	7.30	36.80	7.30	-	17.40	77.00	17.40	0.52	1.30	1.163	---	1.73	---	2.97
	10	F1-3	End	986.68	175.11	986.68	175.11	-	7.30	36.90	7.30	-	17.40	77.00	17.40	0.52	1.30	1.163	---	8.22	---	6.42
	10	F1-9	End	1337.17	139.03	1337.17	139.03	-	7.50	37.50	7.50	-	17.40	77.00	17.40	0.52	1.30	1.163	---	11.28	---	5.01
	10	S1-3	End	218.13	172.24	450.00	142.30	-	7.20	36.20	7.20	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.57	---	2.29
	10	S1-3	End	-	153.60	450.00	142.30	-	7.20	36.20	7.20	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.57	---	2.29
	10	S1-4	End	219.45	168.89	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.34	---	1.97
	10	S2-3	End	218.13	172.24	450.00	142.30	-	7.20	36.20	7.20	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.57	---	2.29
	10	S2-3	End	-	149.08	450.00	142.30	-	7.20	36.20	7.20	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.57	---	2.29
	10	S2-9	End	438.33	243.32	525.00	165.00	-	7.40	37.20	7.40	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.85	---	2.68
	10	S3-3	End	-	141.96	450.00	142.30	-	7.20	36.20	7.20	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.57	---	2.28
	10	S3-3	End	246.60	181.74	450.00	142.30	-	7.20	36.20	7.20	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.57	---	2.29
	10	S4-3	End	128.40	141.37	450.00	142.30	-	7.20	36.20	7.20	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.57	---	2.27
	10	S5-3	End	146.67	148.49	450.00	142.30	-	7.20	36.20	7.20	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.57	---	2.29
	10	S6-3	End	158.16	148.27	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.34	---	1.97
	10	S7-3	End	170.46	151.55	306.00	98.74	-	7.00	35.30	7.00	-	17.40	77.00	17.40	1.17	1.30	1.163	---	**1.01**	---	**1.54**
	10	S8-3	End	191.40	157.42	306.00	98.74	-	7.00	35.30	7.00	-	17.40	77.00	17.40	1.17	1.30	1.163	---	**1.01**	---	**1.54**
	10	S9-3	End	208.95	163.29	306.00	98.74	-	7.00	35.30	7.00	-	17.40	77.00	17.40	1.17	1.30	1.163	---	**1.01**	---	**1.54**
	10	S10-3	End	208.95	163.29	306.00	98.74	-	7.00	35.30	7.00	-	17.40	77.00	17.40	1.17	1.30	1.163	---	**1.01**	---	**1.54**
	10	S10-9	End	181.71	156.52	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.34	---	1.97
	10	S11-3	End	229.74	169.17	306.00	98.74	-	7.00	35.30	7.00	-	17.40	77.00	17.40	1.17	1.30	1.163	---	**1.01**	---	**1.54**
	10	S11-9	End	208.95	164.77	390.00	123.50	-	7.10	35.60	7.10	-	17.40	77.00	17.40	1.17	1.30	1.163	---	1.34	---	1.97

TranSystems

Calculations For **CUY-2-1441**

Made By CTG Date 3/30/2012 Job No. P402110046

Checked By ADK Date 4/3/2012

Controlling Simple Span Stringers - Curved Bridge Sections

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Centrifugal Effect	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear				Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k				Inventory	Operating	Inventory	Operating
5C1	6	F1-1	End	1093.88	182.29	1093.88	182.29	0.00	8.00	40.00	8.00	-	16.50	68.40	16.50	0.52	1.30	1.163	---	10.27	---	7.02
	6	F1-6	End	1898.45	107.70	1898.45	107.70	-	7.90	39.80	7.90	-	16.50	68.40	16.50	0.52	1.30	1.163	---	18.20	---	3.98
	6	S1-6	End	359.88	213.81	450.00	142.30	-	7.20	36.20	7.20	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.76	---	2.41
	6	S2-6	End	359.88	213.81	450.00	142.30	-	7.20	36.20	7.20	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.76	---	2.41
	6	S3-6	End	359.88	213.81	450.00	142.30	-	7.20	36.20	7.20	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.76	---	2.41
	6	S4-1	End	326.55	198.79	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.51	---	2.07
	5	S5-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	16.50	68.40	16.50	1.17	1.30	1.163	---	**1.14**	---	**1.63**
	5	S6-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	16.50	68.40	16.50	1.17	1.30	1.163	---	**1.14**	---	**1.63**
	5	S7-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	16.50	68.40	16.50	1.17	1.30	1.163	---	**1.14**	---	**1.63**
	5	S8-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	16.50	68.40	16.50	1.17	1.30	1.163	---	**1.14**	---	**1.63**
	5	S9-3	End	306.00	98.74	306.00	98.74	-	7.00	35.30	7.00	-	16.50	68.40	16.50	1.17	1.30	1.163	---	**1.14**	---	**1.63**
	5	S10-3	End	278.16	185.38	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.51	---	2.07
	5	S11-3	End	208.95	164.77	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.51	---	2.07
	5	S12-3	End	173.58	153.43	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.51	---	2.07
	6	S12-4	End	-	99.98	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.51	---	1.65
	6	F2-1	End	245.53	86.13	245.53	86.13	-	7.30	36.80	7.30	-	16.50	68.40	16.50	0.52	1.30	1.163	---	1.95	---	3.13
	10	F1-3	End	986.68	175.11	986.68	175.11	-	7.30	36.90	7.30	-	16.50	68.40	16.50	0.52	1.30	1.163	---	9.25	---	6.77
	10	F1-9	End	1337.17	139.03	1337.17	139.03	-	7.50	37.50	7.50	-	16.50	68.40	16.50	0.52	1.30	1.163	---	12.70	---	5.28
	10	S1-3	End	218.13	172.24	450.00	142.30	-	7.20	36.20	7.20	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.76	---	2.41
	10	S1-3	End	-	153.60	450.00	142.30	-	7.20	36.20	7.20	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.76	---	2.41
	10	S1-4	End	219.45	168.89	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.51	---	2.07
	10	S2-3	End	218.13	172.24	450.00	142.30	-	7.20	36.20	7.20	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.76	---	2.41
	10	S2-3	End	-	149.08	450.00	142.30	-	7.20	36.20	7.20	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.76	---	2.41
	10	S2-9	End	438.33	243.32	525.00	165.00	-	7.40	37.20	7.40	-	16.50	68.40	16.50	1.17	1.30	1.163	---	2.09	---	2.82
	10	S3-3	End	-	141.96	450.00	142.30	-	7.20	36.20	7.20	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.76	---	2.41
	10	S3-3	End	246.60	181.74	450.00	142.30	-	7.20	36.20	7.20	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.76	---	2.41
	10	S4-3	End	128.40	141.37	450.00	142.30	-	7.20	36.20	7.20	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.76	---	2.40
	10	S5-3	End	146.67	148.49	450.00	142.30	-	7.20	36.20	7.20	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.76	---	2.41
	10	S6-3	End	158.16	148.27	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.51	---	2.07
	10	S7-3	End	170.46	151.55	306.00	98.74	-	7.00	35.30	7.00	-	16.50	68.40	16.50	1.17	1.30	1.163	---	**1.14**	---	**1.63**
	10	S8-3	End	191.40	157.42	306.00	98.74	-	7.00	35.30	7.00	-	16.50	68.40	16.50	1.17	1.30	1.163	---	**1.14**	---	**1.63**
	10	S9-3	End	208.95	163.29	306.00	98.74	-	7.00	35.30	7.00	-	16.50	68.40	16.50	1.17	1.30	1.163	---	**1.14**	---	**1.63**
	10	S10-3	End	208.95	163.29	306.00	98.74	-	7.00	35.30	7.00	-	16.50	68.40	16.50	1.17	1.30	1.163	---	**1.14**	---	**1.63**
	10	S10-9	End	181.71	156.52	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.51	---	2.07
	10	S11-3	End	229.74	169.17	306.00	98.74	-	7.00	35.30	7.00	-	16.50	68.40	16.50	1.17	1.30	1.163	---	**1.14**	---	**1.63**
	10	S11-9	End	208.95	164.77	390.00	123.50	-	7.10	35.60	7.10	-	16.50	68.40	16.50	1.17	1.30	1.163	---	1.51	---	2.07

TranSystems

Calculations For **CUY-2-1441**

Made By CTG Date 3/29/2012 Job No. P402110046

Checked By ADK Date 4/3/2012

Controlling 2-Span Continuous Stringers - Tangent Bridge Section

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear			Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k			Inventory	Operating	Inventory	Operating
HS-20	3	F1-2	Both	1084.01	183.52	1084.01	183.52	36.70	18.30	20.50	18.30	59.00	22.10	66.40	22.10	0.52	1.30	10.86	18.12	4.93	8.22
	3	S1-2	End	143.58	143.73	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.66	2.77	1.82	3.04
	3	S1-2	Interior	164.28	150.33	390.00	123.50	35.60	17.80	19.90	17.80	59.00	22.10	66.40	22.10	1.17	1.30	**0.61**	**1.01**	**1.38**	**2.30**
	3	S2-2	End	128.46	137.96	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.66	2.77	1.82	3.04
	3	S2-2	Interior	170.46	152.39	390.00	123.50	35.60	17.80	19.90	17.80	59.00	22.10	66.40	22.10	1.17	1.30	0.64	1.06	**1.38**	**2.30**
	3	S3-2	End	155.10	147.24	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.66	2.77	1.82	3.04
	3	S3-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	59.00	22.10	66.40	22.10	1.17	1.30	0.80	1.34	**1.38**	**2.30**
	3	S4-2	End	237.57	204.95	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.66	2.77	1.82	3.04
	3	S4-2	Interior	288.99	219.38	390.00	123.50	35.60	17.80	19.90	17.80	59.00	22.10	66.40	22.10	1.17	1.30	1.25	2.08	**1.38**	**2.30**
	3	S5-2	End	188.07	158.58	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.66	2.77	1.82	3.04
	3	S5-2	Interior	235.86	173.01	390.00	123.50	35.60	17.80	19.90	17.80	59.00	22.10	66.40	22.10	1.17	1.30	0.97	1.63	**1.38**	**2.30**
	3	S6-2	End	158.16	148.27	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.66	2.77	1.82	3.04
	3	S6-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	59.00	22.10	66.40	22.10	1.17	1.30	0.80	1.34	**1.38**	**2.30**
	3	S7-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	59.00	22.10	66.40	22.10	1.17	1.30	0.80	1.34	**1.38**	**2.30**
	3	S7-2	End	158.16	148.27	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.66	2.77	1.82	3.04
	3	S8-2	Interior	235.86	173.01	390.00	123.50	35.60	17.80	19.90	17.80	59.00	22.10	66.40	22.10	1.17	1.30	0.97	1.63	**1.38**	**2.30**
	3	S8-2	End	188.07	158.58	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.66	2.77	1.82	3.04
	3	S9-2	Interior	288.99	219.38	390.00	123.50	35.60	17.80	19.90	17.80	59.00	22.10	66.40	22.10	1.17	1.30	1.25	2.08	**1.38**	**2.30**
	3	S9-2	End	237.57	204.95	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.66	2.77	1.82	3.04
	3	S10-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	59.00	22.10	66.40	22.10	1.17	1.30	0.80	1.34	**1.38**	**2.30**
	3	S10-2	End	155.10	147.24	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.66	2.77	1.82	3.04
	3	S11-2	Interior	170.46	152.39	390.00	123.50	35.60	17.80	19.90	17.80	59.00	22.10	66.40	22.10	1.17	1.30	0.64	1.06	**1.38**	**2.30**
	3	S11-2	End	128.46	137.96	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.66	2.77	1.82	3.04
	3	S12-2	Interior	164.28	150.33	390.00	123.50	35.60	17.80	19.90	17.80	59.00	22.10	66.40	22.10	1.17	1.30	**0.61**	**1.01**	**1.38**	**2.30**
	3	S12-2	End	143.58	143.73	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.66	2.77	1.82	3.04
	3	F2-2	Both	1084.01	183.52	1084.01	183.52	36.70	18.30	20.50	18.30	59.00	22.10	66.40	22.10	0.52	1.30	10.86	18.12	4.93	8.22
	3	F2-2	End	351.75	118.92	351.75	118.92	-	5.50	20.50	5.50	-	19.40	66.40	19.40	0.52	1.30	3.34	5.57	3.93	6.56
2F-1	3	F1-2	Both	1084.01	183.52	1084.01	183.52	36.70	18.30	20.50	18.30	24.70	13.00	43.50	13.00	0.52	1.30	---	27.66	---	13.98
	3	S1-2	End	143.58	143.73	390.00	123.50	-	5.30	19.90	5.30	-	12.00	43.50	12.00	1.17	1.30	---	4.23	---	4.91
	3	S1-2	Interior	164.28	150.33	390.00	123.50	35.60	17.80	19.90	17.80	24.70	13.00	43.50	13.00	1.17	1.30	---	**2.42**	---	**3.90**
	3	S2-2	End	128.46	137.96	390.00	123.50	-	5.30	19.90	5.30	-	12.00	43.50	12.00	1.17	1.30	---	4.23	---	4.91
	3	S2-2	Interior	170.46	152.39	390.00	123.50	35.60	17.80	19.90	17.80	24.70	13.00	43.50	13.00	1.17	1.30	---	2.54	---	**3.90**
	3	S3-2	End	155.10	147.24	390.00	123.50	-	5.30	19.90	5.30	-	12.00	43.50	12.00	1.17	1.30	---	4.23	---	4.91
	3	S3-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	24.70	13.00	43.50	13.00	1.17	1.30	---	3.20	---	**3.90**
	3	S4-2	End	237.57	204.95	390.00	123.50	-	5.30	19.90	5.30	-	12.00	43.50	12.00	1.17	1.30	---	4.23	---	4.91
	3	S4-2	Interior	288.99	219.38	390.00	123.50	35.60	17.80	19.90	17.80	24.70	13.00	43.50	13.00	1.17	1.30	---	4.23	---	**3.90**
	3	S5-2	End	188.07	158.58	390.00	123.50	-	5.30	19.90	5.30	-	12.00	43.50	12.00	1.17	1.30	---	4.23	---	4.91
	3	S5-2	Interior	235.86	173.01	390.00	123.50	35.60	17.80	19.90	17.80	24.70	13.00	43.50	13.00	1.17	1.30	---	3.88	---	**3.90**
	3	S6-2	End	158.16	148.27	390.00	123.50	-	5.30	19.90	5.30	-	12.00	43.50	12.00	1.17	1.30	---	4.23	---	4.91
	3	S6-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	24.70	13.00	43.50	13.00	1.17	1.30	---	3.20	---	**3.90**
	3	S7-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	24.70	13.00	43.50	13.00	1.17	1.30	---	3.20	---	**3.90**
	3	S7-2	End	158.16	148.27	390.00	123.50	-	5.30	19.90	5.30	-	12.00	43.50	12.00	1.17	1.30	---	4.23	---	4.91
	3	S8-2	Interior	235.86	173.01	390.00	123.50	35.60	17.80	19.90	17.80	24.70	13.00	43.50	13.00	1.17	1.30	---	3.88	---	**3.90**
	3	S8-2	End	188.07	158.58	390.00	123.50	-	5.30	19.90	5.30	-	12.00	43.50	12.00	1.17	1.30	---	4.23	---	4.91
	3	S9-2	Interior	288.99	219.38	390.00	123.50	35.60	17.80	19.90	17.80	24.70	13.00	43.50	13.00	1.17	1.30	---	4.23	---	**3.90**
	3	S9-2	End	237.57	204.95	390.00	123.50	-	5.30	19.90	5.30	-	12.00	43.50	12.00	1.17	1.30	---	4.23	---	4.91
	3	S10-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	24.70	13.00	43.50	13.00	1.17	1.30	---	3.20	---	**3.90**
	3	S10-2	End	155.10	147.24	390.00	123.50	-	5.30	19.90	5.30	-	12.00	43.50	12.00	1.17	1.30	---	4.23	---	4.91
	3	S11-2	Interior	170.46	152.39	390.00	123.50	35.60	17.80	19.90	17.80	24.70	13.00	43.50	13.00	1.17	1.30	---	2.54	---	**3.90**
	3	S11-2	End	128.46	137.96	390.00	123.50	-	5.30	19.90	5.30	-	12.00	43.50	12.00	1.17	1.30	---	4.23	---	4.91
	3	S12-2	Interior	164.28	150.33	390.00	123.50	35.60	17.80	19.90	17.80	24.70	13.00	43.50	13.00	1.17	1.30	---	**2.42**	---	**3.90**
	3	S12-2	End	143.58	143.73	390.00	123.50	-	5.30	19.90	5.30	-	12.00	43.50	12.00	1.17	1.30	---	4.23	---	4.91
	3	F2-2	Both	1084.01	183.52	1084.01	183.52	36.70	18.30	20.50	18.30	24.70	13.00	43.50	13.00	0.52	1.30	---	27.66	---	13.98
	3	F2-2	End	351.75	118.92	351.75	118.92	-	5.50	20.50	5.50	-	12.00	43.50	12.00	0.52	1.30	---	8.50	---	10.60
3F-1	3	F1-2	Both	1084.01	183.52	1084.01	183.52	36.70	18.30	20.50	18.30	39.40	18.10	55.90	18.10	0.52	1.30	---	21.52	---	10.04
	3	S1-2	End	143.58	143.73	390.00	123.50	-	5.30	19.90	5.30	-	16.20	55.90	16.20	1.17	1.30	---	3.29	---	3.64
	3	S1-2	Interior	164.28	150.33	390.00	123.50	35.60	17.80	19.90	17.80	39.40	18.10	55.90	18.10	1.17	1.30	---	**1.51**	---	**2.80**
	3	S2-2	End	128.46	137.96	390.00	123.50	-	5.30	19.90	5.30	-	16.20	55.90	16.20	1.17	1.30	---	3.29	---	3.64
	3	S2-2	Interior	170.46	152.39	390.00	123.50	35.60	17.80	19.90	17.80	39.40	18.10	55.90	18.10	1.17	1.30	---	1.59	---	**2.80**
	3	S3-2	End	155.10	147.24	390.00	123.50	-	5.30	19.90	5.30	-	16.20	55.90	16.20	1.17	1.30	---	3.29	---	3.64
	3	S3-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	39.40	18.10	55.90	18.10	1.17	1.30	---	2.00	---	**2.80**
	3	S4-2	End	237.57	204.95	390.00	123.50	-	5.30	19.90	5.30	-	16.20	55.90	16.20	1.17	1.30	---	3.29	---	3.64
	3	S4-2	Interior	288.99	219.38	390.00	123.50	35.60	17.80	19.90	17.80	39.40	18.10	55.90	18.10	1.17	1.30	---	3.12	---	**2.80**
	3	S5-2	End	188.07	158.58	390.00	123.50	-	5.30	19.90	5.30	-	16.20	55.90	16.20	1.17	1.30	---	3.29	---	3.64
	3	S5-2	Interior	235.86	173.01	390.00	123.50	35.60	17.80	19.90	17.80	39.40	18.10	55.90	18.10	1.17	1.30	---	2.43	---	**2.80**
	3	S6-2	End	158.16	148.27	390.00	123.50	-	5.30	19.90	5.30	-	16.20	55.90	16.20	1.17	1.30	---	3.29	---	3.64
	3	S6-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	39.40	18.10	55.90	18.10	1.17	1.30	---	2.00	---	**2.80**
	3	S7-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	39.40	18.10	55.90	18.10	1.17	1.30	---	2.00	---	**2.80**
	3	S7-2	End	158.16	148.27	390.00	123.50	-	5.30	19.90	5.30	-	16.20	55.90	16.20	1.17	1.30	---	3.29	---	3.64
	3	S8-2	Interior	235.86	173.01	390.00	123.50	35.60	17.80	19.90	17.80	39.40	18.10	55.90	18.10	1.17	1.30	---	2.43	---	**2.80**
	3	S8-2	End	188.07	158.58	390.00	123.50	-	5.30	19.90	5.30	-	16.20	55.90	16.20	1.17	1.30	---	3.29	---	3.64
	3	S9-2	Interior	288.99	219.38	390.00	123.50	35.60	17.80	19.90	17.80	39.40	18.10	55.90	18.10	1.17	1.30	---	3.12	---	**2.80**
	3	S9-2	End	237.57	204.95	390.00	123.50	-	5.30	19.90	5.30	-	16.20	55.90	16.20	1.17	1.30	---	3.29	---	3.64
	3	S10-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	39.40	18.10	55.90	18.10	1.17	1.30	---	2.00	---	**2.80**
	3	S10-2	End	155.10	147.24	390.00	123.50	-	5.30	19.90	5.30	-	16.20	55.90	16.20	1.17	1.30	---	3.29	---	3.64
	3	S11-2	Interior	170.46	152.39	390.00	123.50	35.60	17.80	19.90	17.80	39.40	18.10	55.90	18.10	1.17	1.30	---	1.59	---	**2.80**
	3	S11-2	End	128.46	137.96	390.00	123.50	-	5.30	19.90	5.30	-	16.20	55.90	16.20	1.17	1.30	---	3.29	---	3.64
	3	S12-2	Interior	164.28	150.33	390.00	123.50	35.60	17.80	19.90	17.80	39.40	18.10	55.90	18.10	1.17	1.30	---	**1.51**	---	**2.80**
	3	S12-2	End	143.58	143.73	390.00	123.50	-	5.30	19.90	5.30	-	16.20	55.90	16.20	1.17	1.30	---	3.29	---	3.64
	3	F2-2	Both	1084.01	183.52	1084.01	183.52	36.70	18.30	20.50	18.30	39.40	18.10	55.90	18.10	0.52	1.30	---	21.52	---	10.04
	3	F2-2	End	351.75	118.92	351.75	118.92	-	5.50	20.50	5.50	-	16.20	55.90	16.20	0.52	1.30	---	6.62	---	7.85

TranSystems

Calculations For **CUY-2-1441**

Made By CTG Date 3/29/2012 Job No. P402110046

Checked By ADK Date 4/3/2012

Controlling 2-Span Continuous Stringers - Tangent Bridge Section

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear			Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k			Inventory	Operating	Inventory	Operating
4F1	3	F1-2	Both	1084.01	183.52	1084.01	183.52	36.70	18.30	20.50	18.30	45.00	18.70	60.80	18.70	0.52	1.30	---	19.79	---	9.72
	3	S1-2	End	143.58	143.73	390.00	123.50	-	5.30	19.90	5.30	-	16.30	60.80	16.30	1.17	1.30	---	3.03	---	3.62
	3	S1-2	Interior	164.28	150.33	390.00	123.50	35.60	17.80	19.90	17.80	45.00	18.70	60.80	18.70	1.17	1.30	---	**1.33**	---	**2.71**
	3	S2-2	End	128.46	137.96	390.00	123.50	-	5.30	19.90	5.30	-	16.30	60.80	16.30	1.17	1.30	---	3.03	---	3.62
	3	S2-2	Interior	170.46	152.39	390.00	123.50	35.60	17.80	19.90	17.80	45.00	18.70	60.80	18.70	1.17	1.30	---	1.40	---	**2.71**
	3	S3-2	End	155.10	147.24	390.00	123.50	-	5.30	19.90	5.30	-	16.30	60.80	16.30	1.17	1.30	---	3.03	---	3.62
	3	S3-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	45.00	18.70	60.80	18.70	1.17	1.30	---	1.75	---	**2.71**
	3	S4-2	End	237.57	204.95	390.00	123.50	-	5.30	19.90	5.30	-	16.30	60.80	16.30	1.17	1.30	---	3.03	---	3.62
	3	S4-2	Interior	288.99	219.38	390.00	123.50	35.60	17.80	19.90	17.80	45.00	18.70	60.80	18.70	1.17	1.30	---	2.73	---	**2.71**
	3	S5-2	End	188.07	158.58	390.00	123.50	-	5.30	19.90	5.30	-	16.30	60.80	16.30	1.17	1.30	---	3.03	---	3.62
	3	S5-2	Interior	235.86	173.01	390.00	123.50	35.60	17.80	19.90	17.80	45.00	18.70	60.80	18.70	1.17	1.30	---	2.13	---	**2.71**
	3	S6-2	End	158.16	148.27	390.00	123.50	-	5.30	19.90	5.30	-	16.30	60.80	16.30	1.17	1.30	---	3.03	---	3.62
	3	S6-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	45.00	18.70	60.80	18.70	1.17	1.30	---	1.75	---	**2.71**
	3	S7-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	45.00	18.70	60.80	18.70	1.17	1.30	---	1.75	---	**2.71**
	3	S7-2	End	158.16	148.27	390.00	123.50	-	5.30	19.90	5.30	-	16.30	60.80	16.30	1.17	1.30	---	3.03	---	3.62
	3	S8-2	Interior	235.86	173.01	390.00	123.50	35.60	17.80	19.90	17.80	45.00	18.70	60.80	18.70	1.17	1.30	---	2.13	---	**2.71**
	3	S8-2	End	188.07	158.58	390.00	123.50	-	5.30	19.90	5.30	-	16.30	60.80	16.30	1.17	1.30	---	3.03	---	3.62
	3	S9-2	Interior	288.99	219.38	390.00	123.50	35.60	17.80	19.90	17.80	45.00	18.70	60.80	18.70	1.17	1.30	---	2.73	---	**2.71**
	3	S9-2	End	237.57	204.95	390.00	123.50	-	5.30	19.90	5.30	-	16.30	60.80	16.30	1.17	1.30	---	3.03	---	3.62
	3	S10-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	45.00	18.70	60.80	18.70	1.17	1.30	---	1.75	---	**2.71**
	3	S10-2	End	155.10	147.24	390.00	123.50	-	5.30	19.90	5.30	-	16.30	60.80	16.30	1.17	1.30	---	3.03	---	3.62
	3	S11-2	Interior	170.46	152.39	390.00	123.50	35.60	17.80	19.90	17.80	45.00	18.70	60.80	18.70	1.17	1.30	---	1.40	---	**2.71**
	3	S11-2	End	128.46	137.96	390.00	123.50	-	5.30	19.90	5.30	-	16.30	60.80	16.30	1.17	1.30	---	3.03	---	3.62
	3	S12-2	Interior	164.28	150.33	390.00	123.50	35.60	17.80	19.90	17.80	45.00	18.70	60.80	18.70	1.17	1.30	---	**1.33**	---	**2.71**
	3	S12-2	End	143.58	143.73	390.00	123.50	-	5.30	19.90	5.30	-	16.30	60.80	16.30	1.17	1.30	---	3.03	---	3.62
	3	F2-2	Both	1084.01	183.52	1084.01	183.52	36.70	18.30	20.50	18.30	45.00	18.70	60.80	18.70	0.52	1.30	---	19.79	---	9.72
	3	F2-2	End	351.75	118.92	351.75	118.92	-	5.50	20.50	5.50	-	16.30	60.80	16.30	0.52	1.30	---	6.08	---	7.80
5C1	3	F1-2	Both	1084.01	183.52	1084.01	183.52	36.70	18.30	20.50	18.30	41.00	17.40	55.90	17.40	0.52	1.30	---	21.52	---	10.45
	3	S1-2	End	143.58	143.73	390.00	123.50	-	5.30	19.90	5.30	-	15.70	55.90	15.70	1.17	1.30	---	3.29	---	3.76
	3	S1-2	Interior	164.28	150.33	390.00	123.50	35.60	17.80	19.90	17.80	41.00	17.40	55.90	17.40	1.17	1.30	---	**1.46**	---	**2.92**
	3	S2-2	End	128.46	137.96	390.00	123.50	-	5.30	19.90	5.30	-	15.70	55.90	15.70	1.17	1.30	---	3.29	---	3.76
	3	S2-2	Interior	170.46	152.39	390.00	123.50	35.60	17.80	19.90	17.80	41.00	17.40	55.90	17.40	1.17	1.30	---	1.53	---	**2.92**
	3	S3-2	End	155.10	147.24	390.00	123.50	-	5.30	19.90	5.30	-	15.70	55.90	15.70	1.17	1.30	---	3.29	---	3.76
	3	S3-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	41.00	17.40	55.90	17.40	1.17	1.30	---	1.93	---	**2.92**
	3	S4-2	End	237.57	204.95	390.00	123.50	-	5.30	19.90	5.30	-	15.70	55.90	15.70	1.17	1.30	---	3.29	---	3.76
	3	S4-2	Interior	288.99	219.38	390.00	123.50	35.60	17.80	19.90	17.80	41.00	17.40	55.90	17.40	1.17	1.30	---	2.99	---	**2.92**
	3	S5-2	End	188.07	158.58	390.00	123.50	-	5.30	19.90	5.30	-	15.70	55.90	15.70	1.17	1.30	---	3.29	---	3.76
	3	S5-2	Interior	235.86	173.01	390.00	123.50	35.60	17.80	19.90	17.80	41.00	17.40	55.90	17.40	1.17	1.30	---	2.34	---	**2.92**
	3	S6-2	End	158.16	148.27	390.00	123.50	-	5.30	19.90	5.30	-	15.70	55.90	15.70	1.17	1.30	---	3.29	---	3.76
	3	S6-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	41.00	17.40	55.90	17.40	1.17	1.30	---	1.93	---	**2.92**
	3	S7-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	41.00	17.40	55.90	17.40	1.17	1.30	---	1.93	---	**2.92**
	3	S7-2	End	158.16	148.27	390.00	123.50	-	5.30	19.90	5.30	-	15.70	55.90	15.70	1.17	1.30	---	3.29	---	3.76
	3	S8-2	Interior	235.86	173.01	390.00	123.50	35.60	17.80	19.90	17.80	41.00	17.40	55.90	17.40	1.17	1.30	---	2.34	---	**2.92**
	3	S8-2	End	188.07	158.58	390.00	123.50	-	5.30	19.90	5.30	-	15.70	55.90	15.70	1.17	1.30	---	3.29	---	3.76
	3	S9-2	Interior	288.99	219.38	390.00	123.50	35.60	17.80	19.90	17.80	41.00	17.40	55.90	17.40	1.17	1.30	---	2.99	---	**2.92**
	3	S9-2	End	237.57	204.95	390.00	123.50	-	5.30	19.90	5.30	-	15.70	55.90	15.70	1.17	1.30	---	3.29	---	3.76
	3	S10-2	Interior	202.38	162.70	390.00	123.50	35.60	17.80	19.90	17.80	41.00	17.40	55.90	17.40	1.17	1.30	---	1.93	---	**2.92**
	3	S10-2	End	155.10	147.24	390.00	123.50	-	5.30	19.90	5.30	-	15.70	55.90	15.70	1.17	1.30	---	3.29	---	3.76
	3	S11-2	Interior	170.46	152.39	390.00	123.50	35.60	17.80	19.90	17.80	41.00	17.40	55.90	17.40	1.17	1.30	---	1.53	---	**2.92**
	3	S11-2	End	128.46	137.96	390.00	123.50	-	5.30	19.90	5.30	-	15.70	55.90	15.70	1.17	1.30	---	3.29	---	3.76
	3	S12-2	Interior	164.28	150.33	390.00	123.50	35.60	17.80	19.90	17.80	41.00	17.40	55.90	17.40	1.17	1.30	---	**1.46**	---	**2.92**
	3	S12-2	End	143.58	143.73	390.00	123.50	-	5.30	19.90	5.30	-	15.70	55.90	15.70	1.17	1.30	---	3.29	---	3.76
	3	F2-2	Both	1084.01	183.52	1084.01	183.52	36.70	18.30	20.50	18.30	41.00	17.40	55.90	17.40	0.52	1.30	---	21.52	---	10.45
	3	F2-2	End	351.75	118.92	351.75	118.92	-	5.50	20.50	5.50	-	15.70	55.90	15.70	0.52	1.30	---	6.62	---	8.01

TranSystems

Calculations For **CUY-2-1441**

Made By CTG Date 3/30/2012 Job No. P402110046

Checked By ADK Date 4/3/2012

Controlling 2-Span Continuous Stringers - Curved Bridge Sections

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Centrifugal Effect	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear				Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k				Inventory	Operating	Inventory	Operating
HS-20	5	F1-2	End	2088.67	260.17	2088.67	260.17	-	-	22.30	6.00	-	-	66.40	22.10	0.52	1.30	1.163	14.97	20.91	5.28	7.38
	5	F1-2	Interior	2118.14	257.70	2118.14	257.70	39.90	6.00	22.30	6.00	59.00	22.10	66.40	22.10	0.52	1.30	1.163	15.70	22.22	5.46	7.73
	5	S1-2	Both	306.00	98.74	306.00	98.74	35.30	5.30	19.70	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	0.94	1.32	**0.89**	**1.25**
	5	S2-2	Both	306.00	98.74	306.00	98.74	35.30	5.30	19.70	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	0.94	1.32	**0.89**	**1.25**
	5	S3-2	Both	306.00	98.74	306.00	98.74	35.30	5.30	19.70	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	0.94	1.32	**0.89**	**1.25**
	5	S4-2	Both	306.00	98.74	306.00	98.74	35.30	5.30	19.70	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	0.94	1.32	**0.89**	**1.25**
	5	S5-2	Both	306.00	98.74	306.00	98.74	35.30	5.30	19.70	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	0.94	1.32	**0.89**	**1.25**
	5	S6-2	Both	306.00	98.74	306.00	98.74	35.30	5.30	19.70	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	0.94	1.32	**0.89**	**1.25**
	5	S7-2	Both	306.00	98.74	306.00	98.74	35.30	5.30	19.70	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	0.94	1.32	**0.89**	**1.25**
	5	S8-2	Both	306.00	98.74	306.00	98.74	35.30	5.30	19.70	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	0.94	1.32	**0.89**	**1.25**
	5	S9-2	Both	306.00	98.74	306.00	98.74	35.30	5.30	19.70	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	0.94	1.32	**0.89**	**1.25**
	5	S10-2	End	270.93	183.32	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.163	1.18	1.64	1.29	1.80
	5	S10-2	Interior	285.42	187.45	390.00	123.50	35.60	5.30	19.90	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	0.87	1.21	1.13	1.58
	5	S11-2	End	222.27	168.89	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.163	1.18	1.64	1.29	1.80
	5	S11-2	Interior	229.05	170.95	390.00	123.50	35.60	5.30	19.90	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	**0.66**	**0.93**	1.13	1.58
	5	S12-2	End	222.27	168.89	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.163	1.18	1.64	1.29	1.80
	5	S12-2	Interior	229.05	170.95	390.00	123.50	35.60	5.30	19.90	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	**0.66**	**0.93**	1.13	1.58
	5	F2-2	Both	1084.01	183.52	1084.01	183.52	36.70	5.50	20.50	5.50	59.00	22.10	66.40	22.10	0.52	1.30	1.163	7.95	11.24	3.85	5.38
	10	F1-4	End	986.68	175.11	986.68	175.11	-	5.50	20.60	5.50	-	19.40	66.40	19.40	0.52	1.30	1.163	6.98	9.74	4.18	5.84
	10	F1-4	Interior	1006.21	172.48	1006.21	172.48	0.00	5.50	20.60	5.50	59.00	22.10	66.40	22.10	0.52	1.30	1.163	7.36	10.42	3.61	5.04
	10	S2-4	Interior	219.45	168.89	390.00	123.50	0.00	5.30	19.90	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	0.80	1.11	1.13	1.58
	10	S2-4	End	-	125.33	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.163	1.18	1.64	1.29	1.80
	10	S3-4	Interior	208.95	164.77	390.00	123.50	0.00	5.30	19.90	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	0.76	1.06	1.13	1.58
	10	S3-4	End	-	119.14	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.163	1.18	1.64	1.24	1.73
	10	S4-4	Interior	226.17	170.95	390.00	123.50	0.00	5.30	19.90	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	0.82	1.15	1.13	1.58
	10	S4-4	End	-	109.46	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.163	1.18	1.64	1.13	1.58
	10	S5-4	End	119.43	125.46	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.163	1.18	1.64	1.29	1.80
	10	S5-4	Interior	269.43	183.32	390.00	123.50	0.00	5.30	19.90	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	0.98	1.37	1.13	1.58
	10	S6-4	End	137.67	143.08	390.00	123.50	-	5.30	19.90	5.30	-	19.40	66.40	19.40	1.17	1.30	1.163	1.18	1.64	1.29	1.80
	10	S6-4	Interior	291.21	189.51	390.00	123.50	0.00	5.30	19.90	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	1.06	1.48	1.13	1.58
	10	S7-4	End	153.99	145.68	306.00	98.74	-	5.30	19.70	5.30	-	19.40	66.40	19.40	1.17	1.30	1.163	0.91	1.27	1.02	1.42
	10	S7-4	Interior	272.82	182.87	306.00	98.74	0.00	5.30	19.70	5.30	59.00	22.10	66.40	22.10	1.17	1.30	1.163	0.94	1.33	**0.89**	**1.25**
	10	S8-4	End	170.46	151.55	306.00	98.74	-	5.30	19.70	5.30	-	19.40	66.40	19.40	1.17	1.30	1.163	0.91	1.27	1.02	1.42
	10	S9-4	End	191.40	157.42	306.00	98.74	-	5.30	19.70	5.30	-	19.40	66.40	19.40	1.17	1.30	1.163	0.91	1.27	1.02	1.42
	10	S10-4	End	208.95	163.29	306.00	98.74	-	5.30	19.70	5.30	-	19.40	66.40	19.40	1.17	1.30	1.163	0.91	1.27	1.02	1.42
	10	S11-4	End	208.95	163.29	306.00	98.74	-	5.30	19.70	5.30	-	19.40	66.40	19.40	1.17	1.30	1.163	0.91	1.27	1.02	1.42
	10	S12-4	End	228.81	167.21	306.00	98.74	-	5.30	19.70	5.30	-	19.40	66.40	19.40	1.17	1.30	1.163	0.91	1.27	1.02	1.42
	10	S13-4	End	270.30	180.91	306.00	98.74	-	5.30	19.70	5.30	-	19.40	66.40	19.40	1.17	1.30	1.163	0.91	1.27	1.02	1.42
2F1	5	F1-2	End	2088.67	260.17	2088.67	260.17	-	6	22.3	6	-	12.00	43.50	12.00	0.52	1.30	1.163	---	31.92	---	14.18
	5	F1-2	Interior	2118.14	257.7	2118.14	257.7	39.9	6	22.3	6	24.70	13.00	43.50	13.00	0.52	1.30	1.163	---	39.30	---	12.96
	5	S1-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.34	---	**2.12**
	5	S2-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.34	---	**2.12**
	5	S3-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.34	---	**2.12**
	5	S4-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.34	---	**2.12**
	5	S5-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.34	---	**2.12**
	5	S6-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.34	---	**2.12**
	5	S7-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.34	---	**2.12**
	5	S8-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.34	---	**2.12**
	5	S9-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.34	---	**2.12**
	5	S10-2	End	270.93	183.32	390	123.5	-	5.3	19.9	5.3	-	12.00	43.50	12.00	1.17	1.30	1.163	---	2.51	---	2.91
	5	S10-2	Interior	285.42	187.45	390	123.5	35.6	5.3	19.9	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.90	---	2.69
	5	S11-2	End	222.27	168.89	390	123.5	-	5.3	19.9	5.3	-	12.00	43.50	12.00	1.17	1.30	1.163	---	2.51	---	2.91
	5	S11-2	Interior	229.05	170.95	390	123.5	35.6	5.3	19.9	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.22	---	2.69
	5	S12-2	End	222.27	168.89	390	123.5	-	5.3	19.9	5.3	-	12.00	43.50	12.00	1.17	1.30	1.163	---	2.51	---	2.91
	5	S12-2	Interior	229.05	170.95	390	123.5	35.6	5.3	19.9	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.22	---	2.69
	5	F2-2	Both	1084.01	183.52	1084.01	183.52	36.7	5.5	20.5	5.5	24.70	13.00	43.50	13.00	0.52	1.30	1.163	---	19.89	---	9.14
	10	F1-4	End	986.68	175.11	986.68	175.11	-	5.5	20.6	5.5	-	12.00	43.50	12.00	0.52	1.30	1.163	---	14.87	---	9.43
	10	F1-4	Interior	1006.21	172.48	1006.21	172.48	0	5.5	20.6	5.5	24.70	13.00	43.50	13.00	0.52	1.30	1.163	---	18.42	---	8.57
	10	S2-4	Interior	219.45	168.89	390	123.5	0	5.3	19.9	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.66	---	2.69
	10	S2-4	End	-	125.33	390	123.5	-	5.3	19.9	5.3	-	12.00	43.50	12.00	1.17	1.30	1.163	---	2.51	---	2.91
	10	S3-4	Interior	208.95	164.77	390	123.5	0	5.3	19.9	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.53	---	2.69
	10	S3-4	End	-	119.14	390	123.5	-	5.3	19.9	5.3	-	12.00	43.50	12.00	1.17	1.30	1.163	---	2.51	---	2.80
	10	S4-4	Interior	226.17	170.95	390	123.5	0	5.3	19.9	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.74	---	2.69
	10	S4-4	End	-	109.46	390	123.5	-	5.3	19.9	5.3	-	12.00	43.50	12.00	1.17	1.30	1.163	---	2.51	---	2.56
	10	S5-4	End	119.43	125.46	390	123.5	-	5.3	19.9	5.3	-	12.00	43.50	12.00	1.17	1.30	1.163	---	2.51	---	2.91
	10	S5-4	Interior	269.43	183.32	390	123.5	0	5.3	19.9	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	3.04	---	2.69
	10	S6-4	End	137.67	143.08	390	123.5	-	5.3	19.9	5.3	-	12.00	43.50	12.00	1.17	1.30	1.163	---	2.51	---	2.91
	10	S6-4	Interior	291.21	189.51	390	123.5	0	5.3	19.9	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	3.04	---	2.69
	10	S7-4	End	153.99	145.68	306	98.74	-	5.3	19.7	5.3	-	12.00	43.50	12.00	1.17	1.30	1.163	---	1.93	---	2.29
	10	S7-4	Interior	272.82	182.87	306	98.74	0	5.3	19.7	5.3	24.70	13.00	43.50	13.00	1.17	1.30	1.163	---	2.34	---	**2.12**
	10	S8-4	End	170.46	151.55	306	98.74	-	5.3	19.7	5.3	-	12.00	43.50	12.00	1.17	1.30	1.163	---	**1.93**	---	2.29
	10	S9-4	End	191.4	157.42	306	98.74	-	5.3	19.7	5.3	-	12.00	43.50	12.00	1.17	1.30	1.163	---	**1.93**	---	2.29
	10	S10-4	End	208.95	163.29	306	98.74	-	5.3	19.7	5.3	-	12.00	43.50	12.00	1.17	1.30	1.163	---	**1.93**	---	2.29
	10	S11-4	End	208.95	163.29	306	98.74	-	5.3	19.7	5.3	-	12.00	43.50	12.00	1.17	1.30	1.163	---	**1.93**	---	2.29
	10	S12-4	End	228.81	167.21	306	98.74	-	5.3	19.7	5.3	-	12.00	43.50	12.00	1.17	1.30	1.163	---	**1.93**	---	2.29
	10	S13-4	End	270.3	180.91	306	98.74	-	5.3	19.7	5.3	-	12.00	43.50	12.00	1.17	1.30	1.163	---	**1.93**	---	2.29

TranSystems

Calculations For **CUY-2-1441**

Made By CTG Date 3/30/2012 Job No. P402110046

Checked By ADK Date 4/3/2012

Controlling 2-Span Continuous Stringers - Curved Bridge Sections

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Centrifugal Effect	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear				Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k				Inventory	Operating	Inventory	Operating
3F1	5	F1-2	End	2088.67	260.17	2088.67	260.17	-	6	22.3	6	-	16.20	55.90	16.20	0.52	1.30	1.163	---	24.64	---	10.50
	5	F1-2	Interior	2118.14	257.7	2118.14	257.7	39.9	6	22.3	6	39.40	18.10	55.90	18.10	0.52	1.30	1.163	---	28.64	---	9.01
	5	S1-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	1.71	---	**1.52**
	5	S2-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	1.71	---	**1.52**
	5	S3-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	1.71	---	**1.52**
	5	S4-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	1.71	---	**1.52**
	5	S5-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	1.71	---	**1.52**
	5	S6-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	1.71	---	**1.52**
	5	S7-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	1.71	---	**1.52**
	5	S8-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	1.71	---	**1.52**
	5	S9-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	1.71	---	**1.52**
	5	S10-2	End	270.93	183.32	390	123.5	-	5.3	19.9	5.3	-	16.20	55.90	16.20	1.17	1.30	1.163	---	1.95	---	2.16
	5	S10-2	Interior	285.42	187.45	390	123.5	35.6	5.3	19.9	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	1.82	---	1.93
	5	S11-2	End	222.27	168.89	390	123.5	-	5.3	19.9	5.3	-	16.20	55.90	16.20	1.17	1.30	1.163	---	1.95	---	2.16
	5	S11-2	Interior	229.05	170.95	390	123.5	35.6	5.3	19.9	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	**1.39**	---	1.93
	5	S12-2	End	222.27	168.89	390	123.5	-	5.3	19.9	5.3	-	16.20	55.90	16.20	1.17	1.30	1.163	---	1.95	---	2.16
	5	S12-2	Interior	229.05	170.95	390	123.5	35.6	5.3	19.9	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	**1.39**	---	1.93
	5	F2-2	Both	1084.01	183.52	1084.01	183.52	36.7	5.5	20.5	5.5	39.40	18.10	55.90	18.10	0.52	1.30	1.163	---	14.49	---	6.57
	10	F1-4	End	986.68	175.11	986.68	175.11	-	5.5	20.6	5.5	-	16.20	55.90	16.20	0.52	1.30	1.163	---	11.57	---	6.99
	10	F1-4	Interior	1006.21	172.48	1006.21	172.48	0	5.5	20.6	5.5	39.40	18.10	55.90	18.10	0.52	1.30	1.163	---	13.43	---	6.16
	10	S2-4	Interior	219.45	168.89	390	123.5	0	5.3	19.9	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	1.67	---	1.93
	10	S2-4	End	-	125.33	390	123.5	-	5.3	19.9	5.3	-	16.20	55.90	16.20	1.17	1.30	1.163	---	1.95	---	2.16
	10	S3-4	Interior	208.95	164.77	390	123.5	0	5.3	19.9	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	1.59	---	1.93
	10	S3-4	End	-	119.14	390	123.5	-	5.3	19.9	5.3	-	16.20	55.90	16.20	1.17	1.30	1.163	---	1.95	---	2.08
	10	S4-4	Interior	226.17	170.95	390	123.5	0	5.3	19.9	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	1.72	---	1.93
	10	S4-4	End	-	109.46	390	123.5	-	5.3	19.9	5.3	-	16.20	55.90	16.20	1.17	1.30	1.163	---	1.95	---	1.90
	10	S5-4	End	119.43	125.46	390	123.5	-	5.3	19.9	5.3	-	16.20	55.90	16.20	1.17	1.30	1.163	---	1.95	---	2.16
	10	S5-4	Interior	269.43	183.32	390	123.5	0	5.3	19.9	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	2.05	---	1.93
	10	S6-4	End	137.67	143.08	390	123.5	-	5.3	19.9	5.3	-	16.20	55.90	16.20	1.17	1.30	1.163	---	1.95	---	2.16
	10	S6-4	Interior	291.21	189.51	390	123.5	0	5.3	19.9	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	2.21	---	1.93
	10	S7-4	End	153.99	145.68	306	98.74	-	5.3	19.7	5.3	-	16.20	55.90	16.20	1.17	1.30	1.163	---	1.50	---	1.70
	10	S7-4	Interior	272.82	182.87	306	98.74	0	5.3	19.7	5.3	39.40	18.10	55.90	18.10	1.17	1.30	1.163	---	1.71	---	**1.52**
	10	S8-4	End	170.46	151.55	306	98.74	-	5.3	19.7	5.3	-	16.20	55.90	16.20	1.17	1.30	1.163	---	1.50	---	1.70
	10	S9-4	End	191.4	157.42	306	98.74	-	5.3	19.7	5.3	-	16.20	55.90	16.20	1.17	1.30	1.163	---	1.50	---	1.70
	10	S10-4	End	208.95	163.29	306	98.74	-	5.3	19.7	5.3	-	16.20	55.90	16.20	1.17	1.30	1.163	---	1.50	---	1.70
	10	S11-4	End	208.95	163.29	306	98.74	-	5.3	19.7	5.3	-	16.20	55.90	16.20	1.17	1.30	1.163	---	1.50	---	1.70
	10	S12-4	End	228.81	167.21	306	98.74	-	5.3	19.7	5.3	-	16.20	55.90	16.20	1.17	1.30	1.163	---	1.50	---	1.70
	10	S13-4	End	270.3	180.91	306	98.74	-	5.3	19.7	5.3	-	16.20	55.90	16.20	1.17	1.30	1.163	---	1.50	---	1.70
4F1	5	F1-2	End	2088.67	260.17	2088.67	260.17	-	6	22.3	6	-	16.30	60.80	16.30	0.52	1.30	1.163	---	22.83	---	10.44
	5	F1-2	Interior	2118.14	257.7	2118.14	257.7	39.9	6	22.3	6	45.00	18.70	60.80	18.70	0.52	1.30	1.163	---	25.91	---	9.01
	5	S1-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.55	---	**1.47**
	5	S2-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.55	---	**1.47**
	5	S3-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.55	---	**1.47**
	5	S4-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.55	---	**1.47**
	5	S5-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.55	---	**1.47**
	5	S6-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.55	---	**1.47**
	5	S7-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.55	---	**1.47**
	5	S8-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.55	---	**1.47**
	5	S9-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.55	---	**1.47**
	5	S10-2	End	270.93	183.32	390	123.5	-	5.3	19.9	5.3	-	16.30	60.80	16.30	1.17	1.30	1.163	---	1.79	---	2.14
	5	S10-2	Interior	285.42	187.45	390	123.5	35.6	5.3	19.9	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.59	---	1.87
	5	S11-2	End	222.27	168.89	390	123.5	-	5.3	19.9	5.3	-	16.30	60.80	16.30	1.17	1.30	1.163	---	1.79	---	2.14
	5	S11-2	Interior	229.05	170.95	390	123.5	35.6	5.3	19.9	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	**1.22**	---	1.87
	5	S12-2	End	222.27	168.89	390	123.5	-	5.3	19.9	5.3	-	16.30	60.80	16.30	1.17	1.30	1.163	---	1.79	---	2.14
	5	S12-2	Interior	229.05	170.95	390	123.5	35.6	5.3	19.9	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	**1.22**	---	1.87
	5	F2-2	Both	1084.01	183.52	1084.01	183.52	36.7	5.5	20.5	5.5	45.00	18.70	60.80	18.70	0.52	1.30	1.163	---	13.11	---	6.36
	10	F1-4	End	986.68	175.11	986.68	175.11	-	5.5	20.6	5.5	-	16.30	60.80	16.30	0.52	1.30	1.163	---	10.64	---	6.95
	10	F1-4	Interior	1006.21	172.48	1006.21	172.48	0	5.5	20.6	5.5	45.00	18.70	60.80	18.70	0.52	1.30	1.163	---	12.14	---	5.96
	10	S2-4	Interior	219.45	168.89	390	123.5	0	5.3	19.9	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.46	---	1.87
	10	S2-4	End	-	125.33	390	123.5	-	5.3	19.9	5.3	-	16.30	60.80	16.30	1.17	1.30	1.163	---	1.79	---	2.14
	10	S3-4	Interior	208.95	164.77	390	123.5	0	5.3	19.9	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.39	---	1.87
	10	S3-4	End	-	119.14	390	123.5	-	5.3	19.9	5.3	-	16.30	60.80	16.30	1.17	1.30	1.163	---	1.79	---	2.06
	10	S4-4	Interior	226.17	170.95	390	123.5	0	5.3	19.9	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.51	---	1.87
	10	S4-4	End	-	109.46	390	123.5	-	5.3	19.9	5.3	-	16.30	60.80	16.30	1.17	1.30	1.163	---	1.79	---	1.89
	10	S5-4	End	119.43	125.46	390	123.5	-	5.3	19.9	5.3	-	16.30	60.80	16.30	1.17	1.30	1.163	---	1.79	---	2.14
	10	S5-4	Interior	269.43	183.32	390	123.5	0	5.3	19.9	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.79	---	1.87
	10	S6-4	End	137.67	143.08	390	123.5	-	5.3	19.9	5.3	-	16.30	60.80	16.30	1.17	1.30	1.163	---	1.79	---	2.14
	10	S6-4	Interior	291.21	189.51	390	123.5	0	5.3	19.9	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.84	---	1.87
	10	S7-4	End	153.99	145.68	306	98.74	-	5.3	19.7	5.3	-	16.30	60.80	16.30	1.17	1.30	1.163	---	1.50	---	1.69
	10	S7-4	Interior	272.82	182.87	306	98.74	0	5.3	19.7	5.3	45.00	18.70	60.80	18.70	1.17	1.30	1.163	---	1.55	---	**1.47**
	10	S8-4	End	170.46	151.55	306	98.74	-	5.3	19.7	5.3	-	16.30	60.80	16.30	1.17	1.30	1.163	---	1.38	---	1.69
	10	S9-4	End	191.4	157.42	306	98.74	-	5.3	19.7	5.3	-	16.30	60.80	16.30	1.17	1.30	1.163	---	1.38	---	1.69
	10	S10-4	End	208.95	163.29	306	98.74	-	5.3	19.7	5.3	-	16.30	60.80	16.30	1.17	1.30	1.163	---	1.38	---	1.69
	10	S11-4	End	208.95	163.29	306	98.74	-	5.3	19.7	5.3	-	16.30	60.80	16.30	1.17	1.30	1.163	---	1.38	---	1.69
	10	S12-4	End	228.81	167.21	306	98.74	-	5.3	19.7	5.3	-	16.30	60.80	16.30	1.17	1.30	1.163	---	1.38	---	1.69
	10	S13-4	End	270.3	180.91	306	98.74	-	5.3	19.7	5.3	-	16.30	60.80	16.30	1.17	1.30	1.163	---	1.38	---	1.69

Tran Systems

Calculations For CUY-2-1441

Made By CTG Date 3/30/2012 Job No. P402110046
Checked By ADK Date 4/3/2012

Controlling 2-Span Continuous Stringers - Curved Bridge Sections

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Centrifugal Effect	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear				Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k				Inventory	Operating	Inventory	Operating
5C1	5	F1-2	End	2088.67	260.17	2088.67	260.17	-	6	22.3	6	-	15.70	55.90	15.70	0.52	1.30	1.163	---	24.84	---	10.68
	5	F1-2	Interior	2118.14	257.7	2118.14	257.7	39.9	6	22.3	6	41.00	17.40	55.90	17.40	0.52	1.30	1.163	---	28.26	---	9.68
	5	S1-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	1.69	---	**1.58**
	5	S2-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	1.69	---	**1.58**
	5	S3-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	1.69	---	**1.58**
	5	S4-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	1.69	---	**1.58**
	5	S5-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	1.69	---	**1.58**
	5	S6-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	1.69	---	**1.58**
	5	S7-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	1.69	---	**1.58**
	5	S8-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	1.69	---	**1.58**
	5	S9-2	Both	306	98.74	306	98.74	35.3	5.3	19.7	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	1.69	---	**1.58**
	5	S10-2	End	270.93	183.32	390	123.5	-	5.3	19.9	5.3	-	15.70	55.90	15.70	1.17	1.30	1.163	---	1.95	---	2.23
	5	S10-2	Interior	285.42	187.45	390	123.5	35.6	5.3	19.9	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	1.75	---	2.01
	5	S11-2	End	222.27	168.89	390	123.5	-	5.3	19.9	5.3	-	15.70	55.90	15.70	1.17	1.30	1.163	---	1.95	---	2.23
	5	S11-2	Interior	229.05	170.95	390	123.5	35.6	5.3	19.9	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	**1.34**	---	2.01
	5	S12-2	End	222.27	168.89	390	123.5	-	5.3	19.9	5.3	-	15.70	55.90	15.70	1.17	1.30	1.163	---	1.95	---	2.23
	5	S12-2	Interior	229.05	170.95	390	123.5	35.6	5.3	19.9	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	**1.34**	---	2.01
	5	F2-2	Both	1084.01	183.52	1084.01	183.52	36.7	5.5	20.6	5.5	41.00	17.40	55.90	17.40	0.52	1.30	1.163	---	14.30	---	6.83
	10	F1-4	End	986.68	175.11	986.68	175.11	-	5.5	20.6	5.5	-	15.70	55.90	15.70	0.52	1.30	1.163	---	11.57	---	7.21
	10	F1-4	Interior	1006.21	172.48	1006.21	172.48	0	5.5	20.6	5.5	41.00	17.40	55.90	17.40	0.52	1.30	1.163	---	13.25	---	6.40
	10	S2-4	Interior	219.45	168.89	390	123.5	0	5.3	19.9	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	1.60	---	2.01
	10	S2-4	End	-	125.33	390	123.5	-	5.3	19.9	5.3	-	15.70	55.90	15.70	1.17	1.30	1.163	---	1.95	---	2.23
	10	S3-4	Interior	208.95	164.77	390	123.5	0	5.3	19.9	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	1.53	---	2.01
	10	S3-4	End	-	119.14	390	123.5	-	5.3	19.9	5.3	-	15.70	55.90	15.70	1.17	1.30	1.163	---	1.95	---	2.14
	10	S4-4	Interior	226.17	170.95	390	123.5	0	5.3	19.9	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	1.65	---	2.01
	10	S4-4	End	-	109.46	390	123.5	-	5.3	19.9	5.3	-	15.70	55.90	15.70	1.17	1.30	1.163	---	1.95	---	1.96
	10	S5-4	End	119.43	125.46	390	123.5	-	5.3	19.9	5.3	-	15.70	55.90	15.70	1.17	1.30	1.163	---	1.95	---	2.23
	10	S5-4	Interior	269.43	183.32	390	123.5	0	5.3	19.9	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	1.97	---	2.01
	10	S6-4	End	137.67	143.08	390	123.5	-	5.3	19.9	5.3	-	15.70	55.90	15.70	1.17	1.30	1.163	---	1.95	---	2.23
	10	S6-4	Interior	291.21	186.37	390	123.5	0	5.3	19.9	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	2.13	---	2.01
	10	S7-4	End	153.99	145.68	306	98.74	-	5.3	19.7	5.3	-	15.70	55.90	15.70	1.17	1.30	1.163	---	1.50	---	1.75
	10	S7-4	Interior	292.82	182.87	306	98.74	0	5.3	19.7	5.3	41.00	17.40	55.90	17.40	1.17	1.30	1.163	---	1.69	---	**1.58**
	10	S8-4	End	170.46	151.55	306	98.74	-	5.3	19.7	5.3	-	15.70	55.90	15.70	1.17	1.30	1.163	---	1.50	---	1.75
	10	S9-4	End	191.4	157.42	306	98.74	-	5.3	19.7	5.3	-	15.70	55.90	15.70	1.17	1.30	1.163	---	1.50	---	1.75
	10	S10-4	End	208.95	163.29	306	98.74	-	5.3	19.7	5.3	-	15.70	55.90	15.70	1.17	1.30	1.163	---	1.50	---	1.75
	10	S11-4	End	208.95	163.29	306	98.74	-	5.3	19.7	5.3	-	15.70	55.90	15.70	1.17	1.30	1.163	---	1.50	---	1.75
	10	S12-4	End	228.81	167.21	306	98.74	-	5.3	19.7	5.3	-	15.70	55.90	15.70	1.17	1.30	1.163	---	1.50	---	1.75
	10	S13-4	End	270.3	180.91	306	98.74	-	5.3	19.7	5.3	-	15.70	55.90	15.70	1.17	1.30	1.163	---	1.50	---	1.75

TranSystems

Calculations For **CUY-2-1441**

Made By CTG Date 3/29/2012 Job No. P402110046

Checked By ADK Date 4/3/2012

Controlling 3-Span Continuous Stringers - Tangent Bridge Section

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear			Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k			Inventory	Operating	Inventory	Operating
HS-20	1	F1-2	Both	1084.01	183.52	1084.01	183.52	29.30	16.10	23.50	16.10	56.70	22.10	65.80	22.10	0.52	1.30	10.91	18.22	5.02	8.37
	2	F1-1	End	245.53	86.13	245.53	86.13	-	5.90	23.50	5.90	-	19.30	65.80	19.30	0.52	1.30	2.23	3.72	2.77	4.63
		S1-3	End	128.46	137.96	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.82	3.04
	4	S1-2	Interior	157.07	146.21	390.00	123.50	28.40	15.70	22.70	15.70	56.70	22.10	65.80	22.10	1.17	1.30	**0.64**	**1.07**	1.41	2.36
	8	S1-4	End	-	87.82	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.26	2.11
	4	S1-3	Both	306.00	98.74	306.00	98.70	28.10	15.50	22.50	15.50	56.70	22.10	65.80	22.10	1.17	1.30	1.27	2.13	1.08	1.80
	9	S2-3	End	110.25	131.78	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.82	3.04
	4	S2-2	Interior	158.16	148.27	390.00	123.50	28.40	15.70	22.70	15.70	56.70	22.10	65.80	22.10	1.17	1.30	0.65	1.08	1.41	2.36
	8	S2-4	End	-	89.26	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.28	2.14
	4	S2-5	Interior	306.00	98.74	306.00	98.70	28.10	15.50	22.50	15.50	56.70	22.10	65.80	22.10	1.17	1.30	1.27	2.13	1.08	1.80
	5	S3-1	End	105.87	129.71	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.82	3.04
	4	S3-2	Interior	188.07	158.58	390.00	123.50	28.40	15.70	22.70	15.70	56.70	22.10	65.80	22.10	1.17	1.30	0.81	1.35	1.41	2.36
	3	S3-1	End	-	119.35	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.76	2.93
	4	S3-5	Interior	306.00	98.74	306.00	98.70	28.10	15.50	22.50	15.50	56.70	22.10	65.80	22.10	1.17	1.30	1.27	2.13	1.08	1.80
	8	S4-8	End	110.04	131.26	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.82	3.04
	4	S4-2	Interior	245.70	175.08	390.00	123.50	28.40	15.70	22.70	15.70	56.70	22.10	65.80	22.10	1.17	1.30	1.12	1.86	1.41	2.36
	4	S4-5	Interior	306.00	98.74	306.00	98.70	28.10	15.50	22.50	15.50	56.70	22.10	65.80	22.10	1.17	1.30	1.27	2.13	1.08	1.80
	8	S5-4	End	140.16	142.08	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.82	3.04
	2	S5-2	Interior	202.38	162.70	390.00	123.50	28.40	15.70	22.70	15.70	56.70	22.10	65.80	22.10	1.17	1.30	0.88	1.48	1.41	2.36
	8	S5-7	End	-	140.99	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.82	3.04
	4	S5-5	Interior	306.00	98.74	306.00	98.70	28.10	15.50	22.50	15.50	56.70	22.10	65.80	22.10	1.17	1.30	1.27	2.13	1.08	1.80
	8	S6-4	End	111.66	121.34	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.79	2.99
	4	S6-2	Interior	190.77	158.58	390.00	123.50	28.40	15.70	22.70	15.70	56.70	22.10	65.80	22.10	1.17	1.30	0.82	1.37	1.41	2.36
	8	S6-7	End	-	143.47	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.82	3.04
	7	S6-1	Interior	306.00	98.74	306.00	98.70	28.10	15.50	22.50	15.50	56.70	22.10	65.80	22.10	1.17	1.30	1.27	2.13	1.08	1.80
	8	S7-4	End	111.66	121.34	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.79	2.99
	4	S7-2	Interior	190.77	158.58	390.00	123.50	28.40	15.70	22.70	15.70	56.70	22.10	65.80	22.10	1.17	1.30	0.82	1.37	1.41	2.36
	8	S7-7	End	-	143.47	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.82	3.04
	7	S7-1	Interior	306.00	98.74	306.00	98.70	28.10	15.50	22.50	15.50	56.70	22.10	65.80	22.10	1.17	1.30	1.27	2.13	1.08	1.80
	8	S8-4	End	140.16	142.08	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.82	3.04
	2	S8-2	Interior	202.38	162.70	390.00	123.50	28.40	15.70	22.70	15.70	56.70	22.10	65.80	22.10	1.17	1.30	0.88	1.48	1.41	2.36
	8	S8-7	End	-	140.99	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.82	3.04
	7	S8-1	Interior	306.00	98.74	306.00	98.70	28.10	15.50	22.50	15.50	56.70	22.10	65.80	22.10	1.17	1.30	1.27	2.13	1.08	1.80
	8	S9-8	End	110.04	131.26	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.82	3.04
	4	S9-2	Interior	245.70	175.08	390.00	123.50	28.40	15.70	22.70	15.70	56.70	22.10	65.80	22.10	1.17	1.30	1.12	1.86	1.41	2.36
	7	S9-1	Interior	306.00	98.74	390.00	123.50	28.40	15.70	22.70	15.70	56.70	22.10	65.80	22.10	1.17	1.30	1.44	2.40	**1.07**	**1.79**
	5	S10-1	End	105.87	129.71	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.82	3.04
	4	S10-2	Interior	188.07	158.58	390.00	123.50	28.40	15.70	22.70	15.70	56.70	22.10	65.80	22.10	1.17	1.30	0.81	1.35	1.41	2.36
	3	S10-1	End	-	119.35	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.76	2.93
	9	S10-3	Interior	306.00	98.74	306.00	98.70	28.10	15.50	22.50	15.50	56.70	22.10	65.80	22.10	1.17	1.30	1.27	2.13	1.08	1.80
	9	S11-3	End	110.25	131.78	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.82	3.04
	4	S11-2	Interior	158.16	148.27	390.00	123.50	28.40	15.70	22.70	15.70	56.70	22.10	65.80	22.10	1.17	1.30	0.65	1.08	1.41	2.36
	8	S11-4	End	-	89.26	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.28	2.14
	9	S11-3	Interior	306.00	98.74	306.00	98.70	28.10	15.50	22.50	15.50	56.70	22.10	65.80	22.10	1.17	1.30	1.27	2.13	1.08	1.80
	7	S12-1	End	128.46	137.96	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.82	3.04
	4	S12-2	Interior	157.07	146.21	390.00	123.50	28.40	15.70	22.70	15.70	56.70	22.10	65.80	22.10	1.17	1.30	**0.64**	**1.07**	1.41	2.36
	8	S12-4	End	-	87.82	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.66	2.77	1.26	2.11
	4	S12-3	Interior	306.00	98.74	306.00	98.70	28.10	15.50	22.50	15.50	56.70	22.10	65.80	22.10	1.17	1.30	1.27	2.13	1.08	1.80
	1	F2-2	Both	1084.01	183.52	1084.01	183.52	29.30	16.10	23.50	16.10	56.70	22.10	65.80	22.10	0.52	1.30	10.91	18.22	5.02	8.37
	2	F2-1	End	245.53	86.13	245.53	86.13	-	5.90	23.50	5.90	-	19.30	65.80	19.30	0.52	1.30	2.23	3.72	2.77	4.63

TranSystems

Calculations For **CUY-2-1441**

Made By CTG Date 3/29/2012 Job No. P402110046

Checked By ADK Date 4/3/2012

Controlling 3-Span Continuous Stringers - Tangent Bridge Section

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear			Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k			Inventory	Operating	Inventory	Operating
2F1	1	F1-2	Both	1084.01	183.52	1084.01	183.52	29.3	16.1	23.5	16.1	25.00	13.00	43.00	13.00	0.52	1.3	---	27.88	---	14.23
	2	F1-1	End	245.53	86.13	245.53	86.13	-	5.9	23.5	5.9	-	12.00	43.00	12.00	0.52	1.3	---	5.69	---	7.44
		S1-3	End	128.46	137.96	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.89
	4	S1-2	Interior	157.07	146.21	390	123.5	28.4	15.7	22.7	15.7	25.00	13.00	43.00	13.00	1.17	1.3	---	**2.43**		4.01
	8	S1-4	End	-	87.82	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	3.39
	4	S1-3	Both	306	98.74	306	98.7	28.1	15.5	22.5	15.5	25.00	13.00	43.00	13.00	1.17	1.3	---	3.25	---	3.06
	9	S2-3	End	110.25	131.78	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.89
	4	S2-2	Interior	158.16	148.27	390	123.5	28.4	15.7	22.7	15.7	25.00	13.00	43.00	13.00	1.17	1.3	---	2.45	---	4.01
	8	S2-4	End	-	89.26	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	3.45
	4	S2-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	25.00	13.00	43.00	13.00	1.17	1.3	---	3.25	---	3.06
	5	S3-1	End	105.87	129.71	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.89
	4	S3-2	Interior	188.07	158.58	390	123.5	28.4	15.7	22.7	15.7	25.00	13.00	43.00	13.00	1.17	1.3	---	3.06	---	4.01
	3	S3-1	End	-	119.35	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.72
	4	S3-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	25.00	13.00	43.00	13.00	1.17	1.3	---	3.25	---	3.06
	8	S4-8	End	110.04	131.26	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.89
	4	S4-2	Interior	245.7	175.08	390	123.5	28.4	15.7	22.7	15.7	25.00	13.00	43.00	13.00	1.17	1.3	---	4.22	---	4.01
	4	S4-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	25.00	13.00	43.00	13.00	1.17	1.3	---	3.25	---	3.06
	8	S5-4	End	140.16	142.08	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.89
	2	S5-2	Interior	202.38	162.7	390	123.5	28.4	15.7	22.7	15.7	25.00	13.00	43.00	13.00	1.17	1.3	---	3.35	---	4.01
	8	S5-7	End	-	140.99	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.89
	4	S5-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	25.00	13.00	43.00	13.00	1.17	1.3	---	3.25	---	3.06
	8	S6-4	End	111.66	121.34	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.80
	4	S6-2	Interior	190.77	158.58	390	123.5	28.4	15.7	22.7	15.7	25.00	13.00	43.00	13.00	1.17	1.3	---	3.11	---	4.01
	8	S6-7	End	-	143.47	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.89
	7	S6-1	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	25.00	13.00	43.00	13.00	1.17	1.3	---	3.25	---	3.06
	8	S7-4	End	111.66	121.34	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.80
	4	S7-2	Interior	190.77	158.58	390	123.5	28.4	15.7	22.7	15.7	25.00	13.00	43.00	13.00	1.17	1.3	---	3.11	---	4.01
	8	S7-7	End	-	143.47	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.89
	7	S7-1	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	25.00	13.00	43.00	13.00	1.17	1.3	---	3.25	---	3.06
	8	S8-4	End	140.16	142.08	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.89
	2	S8-2	Interior	202.38	162.7	390	123.5	28.4	15.7	22.7	15.7	25.00	13.00	43.00	13.00	1.17	1.3	---	3.35	---	4.01
	8	S8-7	End	-	140.99	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.89
	7	S8-1	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	25.00	13.00	43.00	13.00	1.17	1.3	---	3.25	---	3.06
	8	S9-8	End	110.04	131.26	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.89
	4	S9-2	Interior	245.7	175.08	390	123.5	28.4	15.7	22.7	15.7	25.00	13.00	43.00	13.00	1.17	1.3	---	4.22	---	4.01
	7	S9-1	Interior	306	98.74	390	123.5	28.4	15.7	22.7	15.7	25.00	13.00	43.00	13.00	1.17	1.3	---	4.24	---	**3.05**
	5	S10-1	End	105.87	129.71	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.89
	4	S10-2	Interior	188.07	158.58	390	123.5	28.4	15.7	22.7	15.7	25.00	13.00	43.00	13.00	1.17	1.3	---	3.06	---	4.01
	3	S10-1	End	-	119.35	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.72
	9	S10-3	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	25.00	13.00	43.00	13.00	1.17	1.3	---	3.25	---	3.06
	9	S11-3	End	110.25	131.78	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.89
	4	S11-2	Interior	158.16	148.27	390	123.5	28.4	15.7	22.7	15.7	25.00	13.00	43.00	13.00	1.17	1.3	---	2.45	---	4.01
	8	S11-4	End	-	89.26	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	3.45
	9	S11-3	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	25.00	13.00	43.00	13.00	1.17	1.3	---	3.25	---	3.06
	7	S12-1	End	128.46	137.96	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24	---	4.89
	4	S12-2	Interior	157.07	146.21	390	123.5	28.4	15.7	22.7	15.7	25.00	13.00	43.00	13.00	1.17	1.3	---	**2.43**		4.01
	8	S12-4	End	-	87.82	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.3	---	4.24		3.39
	9	S12-3	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	25.00	13.00	43.00	13.00	1.17	1.3	---	3.25	---	3.06
	1	F2-2	Both	1084.01	183.52	1084.01	183.52	29.3	16.1	23.5	16.1	25.00	13.00	43.00	13.00	0.52	1.3	---	27.88	---	14.23
	2	F2-1	End	245.53	86.13	245.53	86.13	-	5.9	23.5	5.9	-	12.00	43.00	12.00	0.52	1.3	---	5.69	---	7.44

TranSystems

Calculations For **CUY-2-1441**

Made By CTG Date 3/29/2012 Job No. P402110046

Checked By ADK Date 4/3/2012

Controlling 3-Span Continuous Stringers - Tangent Bridge Section

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear			Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k			Inventory	Operating	Inventory	Operating
3F1	1	F1-2	Both	1084.01	183.52	1084.01	183.52	29.3	16.1	23.5	16.1	40.10	18.20	55.20	18.20	0.52	1.3	---	21.72	---	10.17
	2	F1-1	End	245.53	86.13	245.53	86.13	-	5.9	23.5	5.9	-	16.10	55.20	16.10	0.52	1.3	---	4.43	---	5.55
	8	S1-3	End	128.46	137.96	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.65
	4	S1-2	Interior	157.07	146.21	390	123.5	28.4	15.7	22.7	15.7	40.10	18.20	55.20	18.20	1.17	1.3	---	**1.52**	---	2.86
	8	S1-4	End	-	87.82	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	2.53
	4	S1-5	Both	306	98.74	306	98.7	28.1	15.5	22.5	15.5	40.10	18.20	55.20	18.20	1.17	1.3	---	2.54	---	2.18
	9	S2-3	End	110.25	131.78	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.65
	4	S2-2	Interior	158.16	148.27	390	123.5	28.4	15.7	22.7	15.7	40.10	18.20	55.20	18.20	1.17	1.3	---	1.53	---	2.86
	8	S2-4	End	-	89.26	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	2.57
	4	S2-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	40.10	18.20	55.20	18.20	1.17	1.3	---	2.54	---	2.18
	5	S3-1	End	105.87	129.71	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.65
	4	S3-2	Interior	188.07	158.58	390	123.5	28.4	15.7	22.7	15.7	40.10	18.20	55.20	18.20	1.17	1.3	---	1.91	---	2.86
	3	S3-1	End	-	119.35	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.52
	4	S3-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	40.10	18.20	55.20	18.20	1.17	1.3	---	2.54	---	2.18
	8	S4-8	End	110.04	131.26	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.65
	4	S4-2	Interior	245.7	175.08	390	123.5	28.4	15.7	22.7	15.7	40.10	18.20	55.20	18.20	1.17	1.3	---	2.63	---	2.86
	4	S4-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	40.10	18.20	55.20	18.20	1.17	1.3	---	2.54	---	2.18
	8	S5-4	End	140.16	142.08	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.65
	2	S5-2	Interior	202.38	162.7	390	123.5	28.4	15.7	22.7	15.7	40.10	18.20	55.20	18.20	1.17	1.3	---	2.09	---	2.86
	8	S5-7	End	-	140.99	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.65
	4	S5-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	40.10	18.20	55.20	18.20	1.17	1.3	---	2.54	---	2.18
	8	S6-4	End	111.66	121.34	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.58
	4	S6-2	Interior	190.77	158.58	390	123.5	28.4	15.7	22.7	15.7	40.10	18.20	55.20	18.20	1.17	1.3	---	1.94	---	2.86
	8	S6-7	End	-	143.47	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.65
	7	S6-1	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	40.10	18.20	55.20	18.20	1.17	1.3	---	2.54	---	2.18
	8	S7-4	End	111.66	121.34	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.58
	4	S7-2	Interior	190.77	158.58	390	123.5	28.4	15.7	22.7	15.7	40.10	18.20	55.20	18.20	1.17	1.3	---	1.94	---	2.86
	8	S7-7	End	-	143.47	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.65
	7	S7-1	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	40.10	18.20	55.20	18.20	1.17	1.3	---	2.54	---	2.18
	8	S8-4	End	140.16	142.08	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.65
	2	S8-2	Interior	202.38	162.7	390	123.5	28.4	15.7	22.7	15.7	40.10	18.20	55.20	18.20	1.17	1.3	---	2.09	---	2.86
	8	S8-7	End	-	140.99	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.65
	7	S8-1	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	40.10	18.20	55.20	18.20	1.17	1.3	---	2.54	---	2.18
	8	S9-8	End	110.04	131.26	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.65
	4	S9-2	Interior	245.7	175.08	390	123.5	28.4	15.7	22.7	15.7	40.10	18.20	55.20	18.20	1.17	1.3	---	2.63	---	2.86
	7	S9-1	Interior	306	98.74	390	123.5	28.4	15.7	22.7	15.7	40.10	18.20	55.20	18.20	1.17	1.3	---	3.30	---	**2.18**
	5	S10-1	End	105.87	129.71	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.65
	4	S10-2	Interior	188.07	158.58	390	123.5	28.4	15.7	22.7	15.7	40.10	18.20	55.20	18.20	1.17	1.3	---	1.91	---	2.86
	3	S10-1	End	-	119.35	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.52
	9	S10-3	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	40.10	18.20	55.20	18.20	1.17	1.3	---	2.54	---	2.18
	9	S11-3	End	110.25	131.78	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.65
	4	S11-2	Interior	158.16	148.27	390	123.5	28.4	15.7	22.7	15.7	40.10	18.20	55.20	18.20	1.17	1.3	---	1.53	---	2.86
	8	S11-4	End	-	89.26	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	2.57
	9	S11-3	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	40.10	18.20	55.20	18.20	1.17	1.3	---	2.54	---	2.18
	7	S12-1	End	128.46	137.96	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	3.65
	4	S12-2	Interior	157.07	146.21	390	123.5	28.4	15.7	22.7	15.7	40.10	18.20	55.20	18.20	1.17	1.3	---	**1.52**	---	2.86
	8	S12-4	End	-	87.82	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.3	---	3.30	---	2.53
	9	S12-3	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	40.10	18.20	55.20	18.20	1.17	1.3	---	2.54	---	2.18
	1	F2-2	Both	1084.01	183.52	1084.01	183.52	29.3	16.1	23.5	16.1	40.10	18.20	55.20	18.20	0.52	1.3	---	21.72	---	10.17
	2	F2-1	End	245.53	86.13	245.53	86.13	-	5.9	23.5	5.9	-	16.10	55.20	16.10	0.52	1.3	---	4.43	---	5.55

TranSystems

Calculations For **CUY-2-1441**

Made By CTG Date 3/29/2012 Job No. P402110046

Checked By ADK Date 4/3/2012

Controlling 3-Span Continuous Stringers - Tangent Bridge Section

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear			Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k			Inventory	Operating	Inventory	Operating
4F1	1	F1-2	Both	1084.01	183.52	1084.01	183.52	29.3	16.1	23.5	16.1	45.70	18.80	60.00	18.80	0.52	1.3	---	19.98	---	5.84
	2	F1-1	End	245.53	86.13	245.53	86.13	-	5.9	23.5	5.9	-	16.20	60.00	16.20	0.52	1.3	---	4.08	---	5.51
		S1-3	End	128.46	137.96	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.62
	4	S1-2	Interior	157.07	146.21	390	123.5	28.4	15.7	22.7	15.7	45.70	18.80	60.00	18.80	1.17	1.3	---	**1.33**		2.77
	8	S1-4	End	-	87.82	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	2.51
	4	S1-5	Both	306	98.74	306	98.7	28.1	15.5	22.5	15.5	45.70	18.80	60.00	18.80	1.17	1.3	---	2.33	---	2.11
	9	S2-3	End	110.25	131.78	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.62
	4	S2-2	Interior	158.16	148.27	390	123.5	28.4	15.7	22.7	15.7	45.70	18.80	60.00	18.80	1.17	1.3	---	1.34	---	2.77
	8	S2-4	End	-	89.26	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	2.56
	4	S2-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	45.70	18.80	60.00	18.80	1.17	1.3	---	2.33	---	2.11
	5	S3-1	End	105.87	129.71	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.62
	4	S3-2	Interior	188.07	158.58	390	123.5	28.4	15.7	22.7	15.7	45.70	18.80	60.00	18.80	1.17	1.3	---	1.67	---	2.77
	3	S3-1	End	-	119.35	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.49
	4	S3-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	45.70	18.80	60.00	18.80	1.17	1.3	---	2.33	---	2.11
	8	S4-8	End	110.04	131.26	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.62
	4	S4-2	Interior	245.7	175.08	390	123.5	28.4	15.7	22.7	15.7	45.70	18.80	60.00	18.80	1.17	1.3	---	2.31	---	2.77
	4	S4-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	45.70	18.80	60.00	18.80	1.17	1.3	---	2.33	---	2.11
	8	S5-4	End	140.16	142.08	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.62
	2	S5-2	Interior	202.38	162.7	390	123.5	28.4	15.7	22.7	15.7	45.70	18.80	60.00	18.80	1.17	1.3	---	1.83	---	2.77
	8	S5-7	End	-	140.99	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.62
	4	S5-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	45.70	18.80	60.00	18.80	1.17	1.3	---	2.33	---	2.11
	8	S6-4	End	111.66	121.34	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.56
	4	S6-2	Interior	190.77	158.58	390	123.5	28.4	15.7	22.7	15.7	45.70	18.80	60.00	18.80	1.17	1.3	---	1.70	---	2.77
	8	S6-7	End	-	143.47	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.62
	7	S6-1	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	45.70	18.80	60.00	18.80	1.17	1.3	---	2.33	---	2.11
	8	S7-4	End	111.66	121.34	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.56
	4	S7-2	Interior	190.77	158.58	390	123.5	28.4	15.7	22.7	15.7	45.70	18.80	60.00	18.80	1.17	1.3	---	1.70	---	2.77
	8	S7-7	End	-	143.47	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.62
	7	S7-1	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	45.70	18.80	60.00	18.80	1.17	1.3	---	2.33	---	2.11
	8	S8-4	End	140.16	142.08	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.62
	2	S8-2	Interior	202.38	162.7	390	123.5	28.4	15.7	22.7	15.7	45.70	18.80	60.00	18.80	1.17	1.3	---	1.83	---	2.77
	8	S8-7	End	-	140.99	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.62
	7	S8-1	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	45.70	18.80	60.00	18.80	1.17	1.3	---	2.33	---	2.11
	8	S9-8	End	110.04	131.26	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.62
	4	S9-2	Interior	245.7	175.08	390	123.5	28.4	15.7	22.7	15.7	45.70	18.80	60.00	18.80	1.17	1.3	---	2.31	---	2.77
	7	S9-1	Interior	306	98.74	390	123.5	28.4	15.7	22.7	15.7	45.70	18.80	60.00	18.80	1.17	1.3	---	2.98	---	**2.11**
	5	S10-1	End	105.87	129.71	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.62
	4	S10-2	Interior	188.07	158.58	390	123.5	28.4	15.7	22.7	15.7	45.70	18.80	60.00	18.80	1.17	1.3	---	1.67	---	2.77
	3	S10-1	End	-	119.35	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.49
	9	S10-3	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	45.70	18.80	60.00	18.80	1.17	1.3	---	2.33	---	2.11
	9	S11-3	End	110.25	131.78	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.62
	4	S11-2	Interior	158.16	148.27	390	123.5	28.4	15.7	22.7	15.7	45.70	18.80	60.00	18.80	1.17	1.3	---	1.34	---	2.77
	8	S11-4	End	-	89.26	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	2.56
	9	S11-3	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	45.70	18.80	60.00	18.80	1.17	1.3	---	2.33	---	2.11
	7	S12-1	End	128.46	137.96	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	3.62
	4	S12-2	Interior	157.07	146.21	390	123.5	28.4	15.7	22.7	15.7	45.70	18.80	60.00	18.80	1.17	1.3	---	**1.33**		2.77
	8	S12-4	End	-	87.82	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.3	---	3.04	---	2.51
	9	S12-3	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	45.70	18.80	60.00	18.80	1.17	1.3	---	2.33	---	2.11
	1	F2-2	Both	1084.01	183.52	1084.01	183.52	29.3	16.1	23.5	16.1	45.70	18.80	60.00	18.80	0.52	1.3	---	19.98	---	5.84
	2	F2-1	End	245.53	86.13	245.53	86.13	-	5.9	23.5	5.9	-	16.20	60.00	16.20	0.52	1.3	---	4.08	---	5.51

TranSystems

Calculations For **CUY-2-1441**

Made By CTG Date 3/29/2012 Job No. P402110046

Checked By ADK Date 4/3/2012

Controlling 3-Span Continuous Stringers - Tangent Bridge Section

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear			Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k			Inventory	Operating	Inventory	Operating
5C1	1	F1-2	Both	1084.01	183.52	1084.01	183.52	29.3	16.1	23.5	16.1	41.40	17.10	58.00	17.10	0.52	1.3	---	20.67	---	10.82
	2	F1-1	End	245.53	86.13	245.53	86.13	-	5.9	23.5	5.9	-	15.60	58.00	15.60	0.52	1.3	---	4.22	---	5.72
		S1-3	End	128.46	137.96	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.76
	4	S1-2	Interior	157.07	146.21	390	123.5	28.4	15.7	22.7	15.7	41.40	17.10	58.00	17.10	1.17	1.3	---	**1.47**		3.05
	8	S1-4	End	-	87.82	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	2.61
	4	S1-3	Both	306	98.74	306	98.7	28.1	15.5	22.5	15.5	41.40	17.10	58.00	17.10	1.17	1.3	---	2.41	---	2.32
	9	S2-3	End	110.25	131.78	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.76
	4	S2-2	Interior	158.16	148.27	390	123.5	28.4	15.7	22.7	15.7	41.40	17.10	58.00	17.10	1.17	1.3	---	1.48	---	3.05
	8	S2-4	End	-	89.26	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	2.65
	4	S2-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	41.40	17.10	58.00	17.10	1.17	1.3	---	2.41	---	2.32
	5	S3-1	End	105.87	129.71	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.76
	4	S3-2	Interior	188.07	158.58	390	123.5	28.4	15.7	22.7	15.7	41.40	17.10	58.00	17.10	1.17	1.3	---	1.85	---	3.05
	3	S3-1	End	-	119.35	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.63
	4	S3-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	41.40	17.10	58.00	17.10	1.17	1.3	---	2.41	---	2.32
	8	S4-8	End	110.04	131.26	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.76
	4	S4-2	Interior	245.7	175.08	390	123.5	28.4	15.7	22.7	15.7	41.40	17.10	58.00	17.10	1.17	1.3	---	2.55	---	3.05
	4	S4-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	41.40	17.10	58.00	17.10	1.17	1.3	---	2.41	---	2.32
	8	S5-4	End	140.16	142.08	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.76
	2	S5-2	Interior	202.38	162.7	390	123.5	28.4	15.7	22.7	15.7	41.40	17.10	58.00	17.10	1.17	1.3	---	2.02	---	3.05
	8	S5-7	End	-	140.99	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.76
	4	S5-5	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	41.40	17.10	58.00	17.10	1.17	1.3	---	2.41	---	2.32
	8	S6-4	End	111.66	121.34	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.69
	4	S6-2	Interior	190.77	158.58	390	123.5	28.4	15.7	22.7	15.7	41.40	17.10	58.00	17.10	1.17	1.3	---	1.88	---	3.05
	8	S6-7	End	-	143.47	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.76
	7	S6-1	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	41.40	17.10	58.00	17.10	1.17	1.3	---	2.41	---	2.32
	8	S7-4	End	111.66	121.34	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.69
	4	S7-2	Interior	190.77	158.58	390	123.5	28.4	15.7	22.7	15.7	41.40	17.10	58.00	17.10	1.17	1.3	---	1.88	---	3.05
	8	S7-7	End	-	143.47	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.76
	7	S7-1	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	41.40	17.10	58.00	17.10	1.17	1.3	---	2.41	---	2.32
	8	S8-4	End	140.16	142.08	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.76
	2	S8-2	Interior	202.38	162.7	390	123.5	28.4	15.7	22.7	15.7	41.40	17.10	58.00	17.10	1.17	1.3	---	2.02	---	3.05
	8	S8-7	End	-	140.99	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.76
	7	S8-1	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	41.40	17.10	58.00	17.10	1.17	1.3	---	2.41	---	2.32
	8	S9-8	End	110.04	131.26	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.76
	4	S9-2	Interior	245.7	175.08	390	123.5	28.4	15.7	22.7	15.7	41.40	17.10	58.00	17.10	1.17	1.3	---	2.55	---	3.05
	7	S9-1	Interior	306	98.74	390	123.5	28.4	15.7	22.7	15.7	41.40	17.10	58.00	17.10	1.17	1.3	---	3.14	---	**2.32**
	5	S10-1	End	105.87	129.71	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.76
	4	S10-2	Interior	188.07	158.58	390	123.5	28.4	15.7	22.7	15.7	41.40	17.10	58.00	17.10	1.17	1.3	---	1.85	---	3.05
	3	S10-1	End	-	119.35	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.63
	9	S10-3	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	41.40	17.10	58.00	17.10	1.17	1.3	---	2.41	---	2.32
	9	S11-3	End	110.25	131.78	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.76
	4	S11-2	Interior	158.16	148.27	390	123.5	28.4	15.7	22.7	15.7	41.40	17.10	58.00	17.10	1.17	1.3	---	1.48	---	3.05
	8	S11-4	End	-	89.26	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	2.65
	9	S11-3	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	41.40	17.10	58.00	17.10	1.17	1.3	---	2.41	---	2.32
	7	S12-1	End	128.46	137.96	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14	---	3.76
	4	S12-2	Interior	157.07	146.21	390	123.5	28.4	15.7	22.7	15.7	41.40	17.10	58.00	17.10	1.17	1.3	---	**1.47**	---	3.05
	8	S12-4	End	-	87.82	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.3	---	3.14		2.61
	9	S12-3	Interior	306	98.74	306	98.7	28.1	15.5	22.5	15.5	41.40	17.10	58.00	17.10	1.17	1.3	---	2.41	---	2.32
	1	F2-2	Both	1084.01	183.52	1084.01	183.52	29.3	16.1	23.5	16.1	41.40	17.10	58.00	17.10	0.52	1.3	---	20.67	---	10.82
	2	F2-1	End	245.53	86.13	245.53	86.13	-	5.9	23.5	5.9	-	15.60	58.00	15.60	0.52	1.3	---	4.22	---	5.72

Tran Systems

Calculations For CUY-2-1441

Made By CTG Date 3/30/2012
Checked By ADK Date 4/3/2012

Job No. P402110046

Controlling 3-Span Continuous Stringers - Curved Bridge Sections

			Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Centrifugal Effect	Controlling Rating Factors			
			Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear				Moment		Shear	
Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k				Inventory	Operating	Inventory	Operating
HS-20																					
5	F1-1	Interior	1702.70	116.44	1702.70	116.44	31.60	6.40	25.30	6.40	56.70	22.10	65.80	22.10	0.52	1.30	1.163	12.76	18.13	2.36	3.35
6	F1-2	End	1974.08	104.75	1974.08	104.75	-	6.40	25.60	6.40	-	19.30	65.80	19.30	0.52	1.30	1.163	14.24	19.88	2.41	3.37
5	F1-2	Interior	1974.08	104.75	1974.08	104.75	32.00	6.40	25.60	6.40	56.70	22.10	65.80	22.10	0.52	1.30	1.163	14.84	21.07	2.11	2.94
5	S1-1	Both	306.00	98.74	306.00	98.74	28.10	5.60	22.50	5.60	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.94	1.34	0.89	1.24
5	S2-1	Both	306.00	98.74	306.00	98.74	28.10	5.60	22.50	5.60	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.94	1.34	0.89	1.24
5	S3-1	Both	306.00	98.74	306.00	98.74	28.10	5.60	22.50	5.60	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.94	1.34	0.89	1.24
5	S4-1	Both	306.00	98.74	306.00	98.74	28.10	5.60	22.50	5.60	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.94	1.34	0.89	1.24
5	S5-1	Both	306.00	98.74	306.00	98.74	28.10	5.60	22.50	5.60	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.94	1.34	0.89	1.24
5	S6-1	Both	306.00	98.74	306.00	98.74	28.10	5.60	22.50	5.60	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.94	1.34	0.89	1.24
5	S7-1	Both	306.00	98.74	306.00	98.74	28.10	5.60	22.50	5.60	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.94	1.34	0.89	1.24
6	S8-4	Interior	225.69	184.83	306.00	98.74	28.10	5.60	22.50	5.60	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.94	1.34	0.89	1.24
6	S8-7	Both	306.00	98.74	306.00	98.74	28.10	5.60	22.50	5.60	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.94	1.34	0.89	1.24
6	S9-3	Both	306.00	98.74	306.00	98.74	28.10	5.60	22.50	5.60	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.94	1.34	0.89	1.24
6	S9-4	Interior	225.90	186.19	306.00	98.74	28.10	5.60	22.50	5.60	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.72	1.00	0.89	1.24
6	S10-4	Interior	165.30	151.55	306.00	98.74	28.10	5.60	22.50	5.60	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.49	0.68	0.89	1.24
6	S10-4	End	306.00	98.74	306.00	98.74	-	5.60	22.50	5.60	-	19.30	65.80	19.30	1.17	1.30	1.163	0.90	1.26	1.02	1.42
6	S11-4	Interior	106.22	148.40	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.26	0.37	1.13	1.57
6	S11-2	End	192.04	180.36	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.29	1.80
5	S11-1	End	-	123.27	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.29	1.80
6	S12-4	Interior	165.02	169.02	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.48	0.68	1.13	1.57
5	S12-1	Interior	202.38	162.70	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.63	0.87	1.13	1.57
5	S12-1	End	-	131.51	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.29	1.80
6	F2-4	Both	948.01	180.63	948.01	180.63	29.30	5.90	23.50	5.90	56.70	22.10	65.80	22.10	0.52	1.30	1.163	7.01	9.96	3.78	5.28
10	F1-5	End	1025.88	169.92	1025.88	169.92	-	5.90	23.70	5.90	-	19.30	65.80	19.30	0.52	1.30	1.163	7.30	10.19	4.06	5.67
10	F1-6	End	1209.01	149.93	1209.01	149.93	-	6.00	23.80	6.00	-	19.30	65.80	19.30	0.52	1.30	1.163	8.64	12.07	3.55	4.96
10	F1-8	End	1272.48	144.27	1272.48	144.27	-	6.00	24.00	6.00	-	19.30	65.80	19.30	0.52	1.30	1.163	9.11	12.72	3.41	4.77
10	F1-5	Interior	1045.69	167.44	1045.69	167.44	29.50	5.90	23.70	5.90	56.70	22.10	65.80	22.10	0.52	1.30	1.163	7.76	11.02	3.49	4.87
10	F1-6	Interior	1167.37	153.96	1167.37	153.96	29.70	6.00	23.80	6.00	56.70	22.10	65.80	22.10	0.52	1.30	1.163	8.69	12.34	3.19	4.46
10	F1-7	Interior	1230.03	148.00	1230.03	148.00	29.80	6.00	23.90	6.00	56.70	22.10	65.80	22.10	0.52	1.30	1.163	9.17	13.02	3.06	4.28
10	F1-8	Interior	1293.91	142.48	1293.91	142.48	29.90	6.00	24.00	6.00	56.70	22.10	65.80	22.10	0.52	1.30	1.163	9.65	13.71	2.94	4.11
10	S1-6	End	184.38	156.52	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.29	1.80
10	S1-5	Interior	131.43	139.61	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.36	0.50	1.13	1.57
10	S1-7	Interior	361.62	208.07	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	1.22	1.72	1.13	1.57
10	S1-1	End	-	76.70	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	0.77	1.08
10	S2-1	End	110.25	131.75	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.29	1.80
10	S2-5	Interior	111.30	123.40	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.28	0.39	1.13	1.57
10	S2-2	Interior	197.22	160.64	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.61	0.85	1.13	1.57
10	S3-7	End	138.90	141.65	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.29	1.80
10	S3-5	Interior	120.87	135.48	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.32	0.44	1.13	1.57
10	S4-7	End	126.81	137.54	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.29	1.80
10	S4-5	Interior	120.87	135.48	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.32	0.44	1.13	1.57
10	S5-7	End	120.87	135.48	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.29	1.80
10	S5-5	Interior	131.82	140.02	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.36	0.50	1.13	1.57
10	S6-7	End	113.73	123.40	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.29	1.80
10	S6-5	Interior	140.16	142.08	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.39	0.55	1.13	1.57
10	S7-7	End	100.71	108.83	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.13	1.57
10	S7-5	Interior	140.16	142.08	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.39	0.55	1.13	1.57
10	S8-7	End	125.43	137.54	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.29	1.80
10	S8-5	Interior	158.16	148.76	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.46	0.64	1.13	1.57
10	S9-7	End	123.84	136.51	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.29	1.80
10	S9-5	Interior	166.86	150.33	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.49	0.69	1.13	1.57
10	S10-8	End	174.46	152.39	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.29	1.80
10	S10-5	Interior	175.38	154.43	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.52	0.73	1.13	1.57
10	S10-6	End	-	116.47	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.21	1.69
10	S11-8	End	152.07	146.21	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.29	1.80
10	S11-5	Interior	165.57	150.33	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.49	0.68	1.13	1.57
10	S11-7	End	-	127.41	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.29	1.80
10	S12-7	End	136.74	139.80	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	1.29	1.80
10	S12-7	Interior	155.58	148.27	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.45	0.63	1.13	1.57
10	S12-6	Interior	181.71	156.52	390.00	123.50	28.40	5.70	22.70	5.70	56.70	22.10	65.80	22.10	1.17	1.30	1.163	0.55	0.77	1.13	1.57
10	S12-6	End	-	84.95	390.00	123.50	-	5.70	22.70	5.70	-	19.30	65.80	19.30	1.17	1.30	1.163	1.18	1.64	0.86	1.20
10	F2-8	End	967.27	177.83	967.27	177.83	-	5.90	23.60	5.90	-	19.30	65.80	19.30	0.52	1.30	1.163	6.87	9.59	4.26	5.94
10	F2-8	Interior	986.68	175.11	986.68	175.11	29.40	5.90	23.60	5.90	56.70	22.10	65.80	22.10	0.52	1.30	1.163	7.31	10.38	3.66	5.11

Tran Systems

Calculations For CUY-2-1441

Made By CTG Date 3/30/2012
Checked By ADK Date 4/3/2012

Job No. P402110046

Controlling 3-Span Continuous Stringers - Curved Bridge Sections

			Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Centrifugal Effect	Controlling Rating Factors			
			Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear				Moment		Shear	
Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k				Inventory	Operating	Inventory	Operating
5	F1-1	End	1631.54	120.1	1631.54	120.1	-	6.4	25.3	6.4	-	12.00	43.00	12.00	0.52	1.30	1.163	---	25.06	---	6.26
5	F1-1	Interior	1702.7	116.44	1702.7	116.44	31.6	6.4	25.3	6.4	25.00	13.00	43.00	13.00	0.52	1.30	1.163	---	31.56	---	5.00
6	F1-2	End	1974.08	104.75	1974.08	104.75	-	6.4	25.6	6.4	-	12.00	43.00	12.00	0.52	1.30	1.163	---	30.42	---	6.42
6	F1-2	Interior	1974.08	104.75	1974.08	104.75	32	6.4	25.6	6.4	25.00	13.00	43.00	13.00	0.52	1.30	1.163	---	36.68	---	5.00
5	S1-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	25.00	13.00	43.00	13.00	0.52	1.30	1.163	---	5.23	---	4.74
5	S2-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	2.32	---	2.11
5	S3-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	2.32	---	2.11
5	S4-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	2.32	---	2.11
5	S5-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	2.32	---	2.11
5	S6-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	2.32	---	2.11
5	S7-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	2.32	---	2.11
6	S8-4	Interior	29[illegible]	184.83	306	98.74	28.1	5.6	22.5	5.6	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	2.32	---	2.11
6	S8-7	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	2.32	---	2.11
6	S9-3	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	2.32	---	2.11
6	S9-4	Interior	225.9	160.[illegible]	306	98.74	28.1	5.6	22.5	5.6	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	2.27	---	2.11
6	S10-4	Interior	165.3	151.55	306	98.74	28.1	5.6	22.5	5.6	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	1.54	---	2.11
6	S10-4	End	306	98.74	306	98.74	-	5.6	22.5	5.6	-	12.00	43.00	12.00	1.17	1.30	1.163	---	1.93	---	2.28
6	S11-4	Interior	106.22	148.4	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	**0.83**	---	2.68
6	S11-2	End	192.04	180.36	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	2.90
5	S11-1	End	-	123.27	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	2.89
6	S12-4	Interior	165.02	169.02	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	1.54	---	2.68
5	S12-1	Interior	202.38	162.7	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	1.98	---	2.68
5	S12-1	End	-	131.51	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	2.90
6	F2-4	Both	948.01	180.63	948.01	180.63	29.3	5.9	23.5	5.9	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	7.71	---	3.99
10	F1-5	End	1025.88	169.92	1025.88	169.92	-	5.9	23.7	5.9	-	12.00	43.00	12.00	1.17	1.30	1.163	---	6.93	---	4.05
10	F1-6	End	1209.01	149.93	1209.01	149.93	-	6	23.8	6	-	12.00	43.00	12.00	1.17	1.30	1.163	---	8.21	---	3.55
10	F1-8	End	1272.48	144.27	1272.48	144.27	-	6	24	6	-	12.00	43.00	12.00	1.17	1.30	1.163	---	8.65	---	3.41
10	F1-5	Interior	1045.69	167.44	1045.69	167.44	29.5	5.9	23.7	5.9	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	8.53	---	3.68
10	F1-6	Interior	1167.37	153.96	1167.37	153.96	29.7	6	23.8	6	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	9.55	---	3.37
10	F1-7	Interior	1230.03	148	1230.03	148	29.8	6	23.9	6	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	10.07	---	3.23
10	F1-8	Interior	1293.91	142.48	1293.91	142.48	29.9	6	24	6	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	10.61	---	3.10
10	S1-6	End	184.38	156.52	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	2.90
10	S1-5	Interior	131.43	139.61	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	1.13	---	2.68
10	S1-7	Interior	361.62	208.07	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	3.03	---	2.68
10	S1-1	End	-	76.7	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	**1.73**
10	S2-1	End	110.25	131.75	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	2.90
10	S2-5	Interior	111.3	123.4	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	0.52	1.30	1.163	---	2.01	---	6.01
10	S2-2	Interior	197.22	160.64	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	0.52	1.30	1.163	---	4.32	---	6.02
10	S3-7	End	138.9	141.65	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	0.52	1.30	1.163	---	5.65	---	6.52
10	S3-5	Interior	120.87	135.48	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	0.52	1.30	1.163	---	2.26	---	6.02
10	S4-7	End	126.81	137.54	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	0.52	1.30	1.163	---	5.65	---	6.52
10	S4-5	Interior	120.87	135.48	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	0.52	1.30	1.163	---	2.26	---	6.02
10	S5-7	End	120.87	135.48	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	0.52	1.30	1.163	---	5.65	---	6.52
10	S5-5	Interior	131.82	140.02	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	1.14	---	2.68
10	S6-7	End	113.73	123.4	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	2.90
10	S6-5	Interior	140.16	142.08	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	1.24	---	2.68
10	S7-7	End	100.71	108.83	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	2.53
10	S7-5	Interior	140.16	142.08	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	1.24	---	2.68
10	S8-7	End	125.43	137.54	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	2.90
10	S8-5	Interior	158.16	148.27	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	1.45	---	2.68
10	S9-7	End	123.84	136.51	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	2.90
10	S9-5	Interior	166.86	150.33	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	1.56	---	2.68
10	S10-8	End	138.46	152.39	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	2.90
10	S10-5	Interior	175.38	154.43	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	1.66	---	2.68
10	S10-6	End	-	116.47	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	2.72
10	S11-8	End	152.07	146.21	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	2.90
10	S11-5	Interior	165.57	150.33	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	1.54	---	2.68
10	S11-2	End	-	127.41	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	2.90
10	S12-7	End	136.74	139.8	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	2.90
10	S12-7	Interior	155.58	148.27	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	1.42	---	2.68
10	S12-6	Interior	181.71	156.52	390	123.5	28.4	5.7	22.7	5.7	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	1.74	---	2.68
10	S12-6	End	-	84.95	390	123.5	-	5.7	22.7	5.7	-	12.00	43.00	12.00	1.17	1.30	1.163	---	2.51	---	1.94
10	F2-8	End	967.27	177.83	967.27	177.83	-	5.9	23.6	5.9	-	12.00	43.00	12.00	1.17	1.30	1.163	---	6.53	---	4.05
10	F2-8	Interior	986.68	175.11	986.68	175.11	29.4	5.9	23.6	5.9	25.00	13.00	43.00	13.00	1.17	1.30	1.163	---	8.03	---	3.86

2F1

TranSystems

Calculations For **CUY-2-1441**

Made By CTG Date 3/30/2012
Checked By ADK Date 4/3/2012

Job No. P402110046

Controlling 3-Span Continuous Stringers - Curved Bridge Sections

			Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Centrifugal Effect	Controlling Rating Factors			
			Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear				Moment		Shear	
Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k				Inventory	Operating	Inventory	Operating
5	F1-1	End	1631.54	120.1	1631.54	120.1	-	6.4	25.3	6.4	-	16.10	55.20	16.10	1.17	1.30	1.163	---	6.66	---	2.06
5	F1-1	Interior	1702.7	116.44	1702.7	116.44	31.6	6.4	25.3	6.4	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	10.20	---	1.59
6	F1-2	End	1974.08	104.75	1974.08	104.75	-	6.4	25.6	6.4	-	16.10	55.20	16.10	1.17	1.30	1.163	---	10.53	---	1.79
6	F1-2	Interior	1974.08	104.75	1974.08	104.75	32	6.4	25.6	6.4	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	11.86	---	1.59
5	S1-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	1.69	---	1.51
5	S2-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	1.69	---	1.51
5	S3-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	1.69	---	1.51
5	S4-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	1.69	---	1.51
5	S5-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	1.69	---	1.51
5	S6-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	1.69	---	1.51
5	S7-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	40.10	18.20	55.20	18.20	0.52	1.30	1.163	---	3.80	---	3.39
6	S8-4	Interior	225.69	184.83	306	98.74	28.1	5.6	22.5	5.6	40.10	18.20	55.20	18.20	0.52	1.30	1.163	---	3.80	---	3.39
6	S8-7	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	40.10	18.20	55.20	18.20	0.52	1.30	1.163	---	3.80	---	3.39
6	S9-3	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	40.10	18.20	55.20	18.20	0.52	1.30	1.163	---	3.80	---	3.39
6	S9-4	Interior	225.9	186.19	306	98.74	28.1	5.6	22.5	5.6	40.10	18.20	55.20	18.20	0.52	1.30	1.163	---	3.18	---	3.39
6	S10-4	Interior	165.3	151.55	306	98.74	28.1	5.6	22.5	5.6	40.10	18.20	55.20	18.20	0.52	1.30	1.163	---	2.16	---	3.39
6	S10-4	End	306	98.74	306	98.74	-	5.6	22.5	5.6	-	16.10	55.20	16.10	0.52	1.30	1.163	---	3.38	---	3.83
6	S11-4	Interior	106.22	148.4	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	0.52	---	1.91
6	S11-2	End	192.04	180.36	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.30	1.163	---	1.96	---	2.16
5	S11-1	End	-	123.27	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.30	1.163	---	1.96	---	2.16
6	S12-4	Interior	165.02	169.02	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	0.96	---	1.91
5	S12-1	Interior	202.38	162.7	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	1.24	---	1.91
5	S12-1	End	-	131.51	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.30	1.163	---	1.96	---	2.16
6	F2-4	Both	948.01	180.63	948.01	180.63	29.5	5.9	23.5	5.9	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	5.60	---	2.85
10	F1-5	End	1025.88	169.92	1025.88	169.92	-	5.9	23.7	5.9	-	16.10	55.20	16.10	1.17	1.30	1.163	---	5.40	---	3.02
10	F1-6	End	1209.01	149.93	1209.01	149.93	-	6	23.8	6	-	16.10	55.20	16.10	1.17	1.30	1.163	---	6.39	---	2.64
10	F1-8	End	1272.48	144.27	1272.48	144.27	-	6	24	6	-	16.10	55.20	16.10	1.17	1.30	1.163	---	6.74	---	2.54
10	F1-5	Interior	1045.69	167.44	1045.69	167.44	29.5	5.9	23.7	5.9	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	6.20	---	2.63
10	F1-6	Interior	1167.37	153.96	1167.37	153.96	29.7	6	23.8	6	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	6.94	---	2.41
10	F1-7	Interior	1230.03	148	1230.03	148	29.8	6	23.9	6	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	7.32	---	2.31
10	F1-8	Interior	1293.91	142.48	1293.91	142.48	29.9	6	24	6	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	7.71	---	2.22
10	S1-6	End	184.38	156.52	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.30	1.163	---	1.96	---	2.16
10	S1-5	Interior	131.43	139.61	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	0.71	---	1.91
10	S1-7	Interior	361.62	208.07	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	2.20	---	1.91
10	S1-1	End	-	76.7	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.30	1.163	---	1.96	---	1.29
10	S2-1	End	110.25	131.75	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.30	1.163	---	1.96	---	2.16
10	S2-5	Interior	111.3	123.4	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	0.56	---	1.91
10	S2-2	Interior	197.22	160.64	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	1.20	---	1.91
10	S3-7	End	138.9	141.65	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.30	1.163	---	1.96	---	2.16
10	S3-5	Interior	120.87	135.48	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	0.63	---	1.91
10	S4-7	End	126.81	137.54	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.30	1.163	---	1.96	---	2.16
10	S4-5	Interior	120.87	135.48	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	0.63	---	1.91
10	S5-7	End	120.87	135.48	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.30	1.163	---	1.96	---	2.16
10	S5-5	Interior	131.82	140.02	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	0.71	---	1.91
10	S6-7	End	113.73	123.4	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.30	1.163	---	1.96	---	2.16
10	S6-5	Interior	140.16	142.08	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	0.77	---	1.91
10	S7-7	End	100.71	108.83	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.30	1.163	---	1.96	---	1.89
10	S7-5	Interior	140.16	142.08	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	0.77	---	1.91
10	S8-7	End	125.43	137.54	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	0.52	1.30	1.163	---	4.40	---	4.86
10	S8-5	Interior	158.16	148.27	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	0.52	1.30	1.163	---	2.04	---	4.30
10	S9-7	End	123.84	136.51	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	0.52	1.30	1.163	---	4.40	---	4.86
10	S9-5	Interior	166.86	150.33	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	0.52	1.30	1.163	---	2.18	---	4.30
10	S10-8	End	172.46	152.39	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	0.52	1.30	1.163	---	4.40	---	4.86
10	S10-5	Interior	175.38	154.43	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	0.52	1.30	1.163	---	2.33	---	4.30
10	S10-6	End	-	116.47	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	0.52	1.30	1.163	---	4.40	---	4.57
10	S11-8	End	152.07	146.21	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.30	1.163	---	1.96	---	2.16
10	S11-5	Interior	165.57	150.33	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	2.06	---	1.91
10	S11-2	End	-	127.41	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.30	1.163	---	1.96	---	2.16
10	S12-7	End	136.74	139.8	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.30	1.163	---	1.96	---	2.16
10	S12-7	Interior	155.58	148.27	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	0.89	---	1.91
10	S12-6	Interior	181.71	156.52	390	123.5	28.4	5.7	22.7	5.7	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	1.08	---	1.91
10	S12-6	End	-	84.95	390	123.5	-	5.7	22.7	5.7	-	16.10	55.20	16.10	1.17	1.30	1.163	---	1.96	---	1.44
10	F2-8	End	967.27	177.83	967.27	177.83	-	5.9	23.6	5.9	-	16.10	55.20	16.10	1.17	1.30	1.163	---	5.08	---	2.67
10	F2-8	Interior	986.68	175.11	986.68	175.11	29.4	5.9	23.6	5.9	40.10	18.20	55.20	18.20	1.17	1.30	1.163	---	5.84	---	2.76

3F1

TranSystems

Calculations For **CUY-2-1441**

Made By CTG Date 3/30/2012
Checked By ADK Date 4/3/2012

Job No. P402110046

Controlling 3-Span Continuous Stringers - Curved Bridge Sections

				Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Centrifugal Effect	Controlling Rating Factors			
				Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear				Moment		Shear	
	Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k				Inventory	Operating	Inventory	Operating
4F1	5	F1-1	End	1631.54	120.1	1631.54	120.1	-	6.4	25.3	6.4	-	16.20	60.00	16.20	1.17	1.30	1.163	---	7.98	---	2.02
	5	F1-1	Interior	1702.7	116.44	1702.7	116.44	31.6	6.4	25.3	6.4	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	9.23	---	1.72
	6	F1-2	End	1974.08	104.75	1974.08	104.75	-	6.4	25.6	6.4	-	16.20	60.00	16.20	1.17	1.30	1.163	---	9.69	---	1.78
	6	F1-2	Interior	1974.08	104.75	1974.08	104.75	32	6.4	25.6	6.4	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	10.73	---	1.54
	5	S1-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	1.53	---	1.46
	5	S2-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	1.53	---	1.46
	5	S3-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	1.53	---	1.46
	5	S4-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	1.53	---	1.46
	5	S5-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	1.53	---	1.46
	5	S6-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	1.53	---	1.46
	5	S7-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	1.53	---	1.46
	6	S8-4	Interior	2[illegible]69	184.83	306	98.74	28.1	5.6	22.5	5.6	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	1.53	---	1.46
	6	S8-7	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	1.53	---	1.46
	6	S9-3	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	1.53	---	1.46
	6	S9-4	Interior	225.9	166.[illegible]	306	98.74	28.1	5.6	22.5	5.6	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	1.24	---	1.46
	6	S10-4	Interior	165.3	151.55	306	98.74	28.1	5.6	22.5	5.6	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	0.84	---	1.46
	6	S10-4	End	306	98.74	306	98.74	-	5.6	22.5	5.6	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.38	---	1.69
	6	S11-4	Interior	106.22	148.4	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	0.45	---	1.85
	6	S11-2	End	192.04	180.36	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	2.15
	5	S11-1	End	-	123.27	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	2.14
	6	S12-4	Interior	165.02	169.02	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	0.84	---	1.85
	5	S12-1	Interior	202.38	162.7	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	1.08	---	1.85
	5	S12-1	End	-	131.51	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	0.52	1.30	1.163	---	4.05	---	4.83
	6	F2-4	Both	948.01	180.63	948.01	180.63	29.3	5.9	23.5	5.9	45.70	18.80	60.00	18.80	0.52	1.30	1.163	---	11.42	---	6.20
	10	F1-5	End	1025.88	169.92	1025.88	169.92	-	5.9	23.7	5.9	-	16.20	60.00	16.20	0.52	1.30	1.163	---	11.18	---	6.75
	10	F1-6	End	1209.01	149.93	1209.01	149.93	-	[illegible]	23.8	6	-	16.20	60.00	16.20	0.52	1.30	1.163	---	13.23	---	5.91
	10	F1-8	End	1272.48	144.27	1272.48	144.27	-	6	24	6	-	16.20	60.00	16.20	0.52	1.30	1.163	---	13.94	---	5.68
	10	F1-5	Interior	1045.69	167.44	1045.69	167.44	29.5	5.9	23.7	5.9	45.70	18.80	60.00	18.80	0.52	1.30	1.163	---	12.63	---	5.73
	10	F1-6	Interior	1167.37	153.96	1167.37	153.96	29.7	6	23.8	6	45.70	18.80	60.00	18.80	0.52	1.30	1.163	---	14.14	---	5.24
	10	F1-7	Interior	1230.03	148	1230.03	148	29.8	6	23.9	6	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	6.63	---	2.23
	10	F1-8	Interior	1293.91	142.48	1293.91	142.48	29.9	6	24	6	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	6.98	---	2.15
	10	S1-6	End	184.38	156.52	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	2.15
	10	S1-5	Interior	131.43	139.61	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	0.62	---	1.85
	10	S1-7	Interior	361.62	208.07	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	1.99	---	1.85
	10	S1-1	End	-	76.7	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	1.28
	10	S2-1	End	110.25	131.75	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	2.15
	10	S2-5	Interior	111.3	123.4	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	0.49	---	1.85
	10	S2-2	Interior	197.22	160.64	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	1.05	---	1.85
	10	S3-7	End	138.9	141.65	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	2.15
	10	S3-5	Interior	120.87	135.48	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	0.55	---	1.85
	10	S4-7	End	126.81	137.54	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	2.15
	10	S4-5	Interior	120.87	135.48	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	0.55	---	1.85
	10	S5-7	End	120.87	135.48	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	2.15
	10	S5-5	Interior	131.82	140.02	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	0.62	---	1.85
	10	S6-7	End	113.73	123.4	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	2.14
	10	S6-5	Interior	140.16	142.08	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	0.68	---	1.85
	10	S7-7	End	100.71	108.83	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	1.88
	10	S7-5	Interior	140.16	142.08	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	0.68	---	1.85
	10	S8-7	End	125.43	137.54	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	2.15
	10	S8-5	Interior	158.16	149.27	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	0.79	---	1.85
	10	S9-7	End	123.84	136.51	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	2.15
	10	S9-5	Interior	166.86	150.33	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	0.85	---	1.85
	10	S10-8	End	138.46	152.39	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	2.15
	10	S10-5	Interior	175.38	154.43	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	0.91	---	1.85
	10	S10-6	End	-	116.47	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	2.02
	10	S11-8	End	152.07	146.21	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	2.15
	10	S11-5	Interior	165.57	150.33	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	0.84	---	1.85
	10	S11-2	End	-	127.41	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	2.15
	10	S12-7	End	136.74	139.8	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	1.17	1.30	1.163	---	1.80	---	2.15
	10	S12-7	Interior	155.58	148.27	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	1.17	1.30	1.163	---	0.78	---	1.85
	10	S12-6	Interior	181.71	156.52	390	123.5	28.4	5.7	22.7	5.7	45.70	18.80	60.00	18.80	0.52	1.30	1.163	---	2.14	---	4.16
	10	S12-6	End	-	84.95	390	123.5	-	5.7	22.7	5.7	-	16.20	60.00	16.20	0.52	1.30	1.163	---	4.05	---	3.23
	10	F2-8	End	967.27	177.83	967.27	177.83	-	5.9	23.6	5.9	-	16.20	60.00	16.20	0.52	1.30	1.163	---	10.52	---	6.[illegible]
	10	F2-8	Interior	986.68	175.11	986.68	175.11	29.4	5.9	23.6	5.9	45.70	18.80	60.00	18.80	0.52	1.30	1.163	---	11.00	---	6.00

TranSystems

Calculations For **CUY-2-1441**

Made By CTG Date 3/30/2012
Checked By ADK Date 4/3/2012

Job No. P402110046

Controlling 3-Span Continuous Stringers - Curved Bridge Sections

			Capacities @ coped locations		Full Section Capacities		Dead Load @ coped locations		Dead Load		STAAD Live Load @ coped locations		STAAD Live Load		LLDF	Impact	Centrifugal Effect	Controlling Rating Factors			
			Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear	Moment	Shear				Moment		Shear	
Span	Stringer	Support	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k	k-ft	k				Inventory	Operating	Inventory	Operating
5C1																					
5	F1-1	Interior	1702.7	116.44	1702.7	116.44	31.6	6.4	25.3	6.4	41.40	17.10	58.00	17.10	0.52	1.30	1.163	---	21.97	---	4.17
6	F1-2	End	1974.08	104.75	1974.08	104.75	-	6.4	25.6	6.4	-	15.60	58.00	15.60	0.52	1.30	1.163	---	22.56	---	4.17
6	F1-2	Interior	1974.08	104.75	1974.08	104.75	32	6.4	25.6	6.4	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	11.35	---	1.69
5	S1-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	1.62	---	1.60
5	S2-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	1.62	---	1.60
5	S3-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	1.62	---	1.60
5	S4-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	1.62	---	1.60
5	S5-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	1.62	---	1.60
5	S6-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	1.62	---	1.60
5	S7-1	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	1.62	---	1.60
6	S8-4	Interior	229.69	184.83	306	98.74	28.1	5.6	22.5	5.6	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	1.62	---	1.60
6	S8-7	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	1.62	---	1.60
6	S9-3	Both	306	98.74	306	98.74	28.1	5.6	22.5	5.6	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	1.62	---	1.60
6	S9-4	Interior	225.9	183.19	306	98.74	28.1	5.6	22.5	5.6	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	1.37	---	1.60
6	S10-4	Interior	165.3	151.55	306	98.74	28.1	5.6	22.5	5.6	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	0.93	---	1.60
6	S10-4	End	306	98.74	306	98.74	-	5.6	22.5	5.6	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.43	---	1.76
6	S11-4	Interior	106.22	148.4	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	0.50	---	2.03
6	S11-2	End	192.04	180.36	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.86	---	2.23
5	S11-1	End	-	123.27	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.86	---	2.22
6	S12-4	Interior	165.02	169.02	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	0.93	---	2.03
5	S12-1	Interior	202.38	162.7	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	1.20	---	2.03
5	S12-1	End	-	131.51	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.86	---	2.23
6	F2-4	Both	948.01	180.63	948.01	180.63	29.5	5.9	23.5	5.9	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	5.36	---	3.03
10	F1-5	End	1025.88	169.92	1025.88	169.92	-	5.9	23.7	5.9	-	15.60	58.00	15.60	1.17	1.30	1.163	---	5.14	---	3.12
10	F1-6	End	1209.01	149.93	1209.01	149.93	-	6	23.8	6	-	15.60	58.00	15.60	1.17	1.30	1.163	---	6.08	---	2.73
10	F1-8	End	1272.48	144.27	1272.48	144.27	-	6	24	6	-	15.60	58.00	15.60	1.17	1.30	1.163	---	6.41	---	2.62
10	F1-5	Interior	1045.69	167.44	1045.69	167.44	29.5	5.9	23.7	5.9	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	5.93	---	2.80
10	F1-6	Interior	1167.37	153.96	1167.37	153.96	29.7	6	23.8	6	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	6.65	---	2.56
10	F1-7	Interior	1230.03	148	1230.03	148	29.8	6	23.9	6	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	7.01	---	2.46
10	F1-8	Interior	1293.91	142.48	1293.91	142.48	29.9	6	24	6	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	7.38	---	2.36
10	S1-6	End	184.38	156.52	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.86	---	2.23
10	S1-5	Interior	131.43	139.61	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	0.68	---	2.03
10	S1-7	Interior	361.62	208.07	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	2.11	---	2.03
10	S1-1	End	-	76.7	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	0.52	1.30	1.163	---	4.19	---	2.99
10	S2-1	End	110.25	131.75	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	0.52	1.30	1.163	---	4.19	---	5.02
10	S2-5	Interior	111.3	123.4	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	0.52	1.30	1.163	---	1.21	---	4.57
10	S2-2	Interior	197.22	160.64	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	0.52	1.30	1.163	---	2.61	---	4.58
10	S3-7	End	138.9	141.65	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	0.52	1.30	1.163	---	4.19	---	5.02
10	S3-5	Interior	120.87	135.48	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	0.52	1.30	1.163	---	1.37	---	4.58
10	S4-7	End	126.81	137.54	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	0.52	1.30	1.163	---	4.19	---	5.02
10	S4-5	Interior	120.87	135.48	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	0.61	---	2.03
10	S5-7	End	120.87	135.48	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.86	---	2.23
10	S5-5	Interior	131.82	140.02	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	0.69	---	2.03
10	S6-7	End	113.73	123.4	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.86	---	2.23
10	S6-5	Interior	140.16	142.08	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	0.75	---	2.03
10	S7-7	End	100.71	108.83	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.86	---	1.95
10	S7-5	Interior	140.16	142.08	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	0.75	---	2.03
10	S8-7	End	125.43	137.54	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.86	---	2.23
10	S8-5	Interior	158.16	148.27	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	0.88	---	2.03
10	S9-7	End	123.84	136.51	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.86	---	2.23
10	S9-5	Interior	166.86	150.33	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	0.94	---	2.03
10	S10-8	End	138.46	152.39	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.86	---	2.23
10	S10-5	Interior	175.38	154.43	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	1.00	---	2.03
10	S10-6	End	-	116.47	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.86	---	2.09
10	S11-8	End	152.07	146.21	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.86	---	2.23
10	S11-5	Interior	165.57	150.33	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	0.93	---	2.03
10	S12-8	End	-	127.41	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.86	---	2.23
10	S12-7	End	136.74	139.8	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.86	---	2.23
10	S12-7	Interior	155.58	148.27	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	0.86	---	2.03
10	S12-6	Interior	181.71	156.52	390	123.5	28.4	5.7	22.7	5.7	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	1.05	---	2.03
10	S12-6	End	-	84.95	390	123.5	-	5.7	22.7	5.7	-	15.60	58.00	15.60	1.17	1.30	1.163	---	1.86	---	1.49
10	F2-8	End	967.27	177.83	967.27	177.83	-	5.9	23.6	5.9	-	15.60	58.00	15.60	1.17	1.30	1.163	---	4.84	---	3.07
10	F2-8	Interior	986.68	175.11	986.68	175.11	29.4	5.9	23.6	5.9	41.40	17.10	58.00	17.10	1.17	1.30	1.163	---	5.59	---	2.93

STRINGER FATIGUE

Stringer Fatigue

STAAD LLDF

Type A2 → -49.8 K-ft

Type A3 → -49.3 K-ft

Per Guide Spec. for Fatigue Eval. of Steel Bridges,

$DF = \frac{S}{D}$ but not more than $\frac{S-3}{S}$ (2.6.1)

$D = 17$

$= \frac{6.5}{17} = \underline{0.38}$

Type A2 $-49.8 \times .38 = \underline{18.9}$ K-ft

A3 $-49.3 \times .38 = \underline{18.7}$ K-ft

```
STAAD SPACE
START JOB INFORMATION
ENGINEER DATE 22-Mar-11
END JOB INFORMATION
INPUT WIDTH 79
*Stringer Type A2 ←
UNIT FEET KIP
JOINT COORDINATES
1 0 0 0; 2 20 0 0; 3 40 0 0;
MEMBER INCIDENCES
1 1 2; 2 2 3;
DEFINE MATERIAL START
ISOTROPIC STEEL
E 4.176e+006
POISSON 0.3
DENSITY 0.489024
ALPHA 6e-006
DAMP 0.03
END DEFINE MATERIAL
MEMBER PROPERTY AMERICAN
1 2 TABLE ST W24X84
CONSTANTS
MATERIAL STEEL ALL
SUPPORTS
2 PINNED
1 3 FIXED BUT FX MX MY MZ

DEFINE MOVING LOAD
*HS-20
TYPE 1 LOAD 12 12 3
DIST 30 14
*HS-20 Backwards
TYPE 6 LOAD 3 12 12
DIST 14 30


***HS20
LOAD GENERATION 1000
TYPE 1 -28 0 0 XINC 0.1
LOAD GENERATION 1000
TYPE 6 -28 0 0 XINC 0.1


PERFORM ANALYSIS
FINISH
```

```
STAAD SPACE
START JOB INFORMATION
ENGINEER DATE 22-Mar-11
END JOB INFORMATION
INPUT WIDTH 79
*Stringer Type A3 <---
UNIT FEET KIP
JOINT COORDINATES
1 0 0 0; 2 20 0 0; 3 40 0 0; 4 60 0 0;
MEMBER INCIDENCES
1 1 2; 2 2 3; 3 3 4;
DEFINE MATERIAL START
ISOTROPIC STEEL
E 4.176e+006
POISSON 0.3
DENSITY 0.489024
ALPHA 6e-006
DAMP 0.03
END DEFINE MATERIAL
MEMBER PROPERTY AMERICAN
1 TO 3 TABLE ST W24X84
CONSTANTS
MATERIAL STEEL ALL
SUPPORTS
2 PINNED
1 3 4 FIXED BUT FX MX MY MZ
DEFINE MOVING LOAD
*HS-20
TYPE 1 LOAD 12 12 3
DIST 30 14

*HS-20 Backwards
TYPE 6 LOAD 3 12 12
DIST 14 30

****HS20
LOAD GENERATION 1000
TYPE 1 -28 0 0 XINC 0.1
LOAD GENERATION 1000
TYPE 6 -28 0 0 XINC 0.1

PERFORM ANALYSIS
FINISH
```

As-Built Fatigue Summary

TranSystems

Made By: ADK Date: 4/3/2012 Job No.: P402110046

Checked By: DWC Date: 4/3/2012 Sheet No.:

CUY-2-1441 Main Truss Spans - As-Built Fatigue Summary

Redundant? Yes

f = 2.0 (Calculate MEAN Life per ODOT BDM 402.2.6)

R_s = 1.00

Present ADTT* (T_P) = 160

T_N = 361 (Future ADTT, assuming growth rate of 1%/year)

Weight Ratios = 1.0 (W_P/W, W_N/W equal to unity per ODOT BDM 402.2.6)

Impact** = 1.15 (Per ODOT BDM 402.2.6)

Y_P = 18 (Present age of the bridge in years)

$Y_{f,MIN}$ = 171 years

* Based on surveyed 2010 ADTT value of 400, multiplied by F_L of 0.4 for 6 lanes of two-way traffic

** Impact is applied in calculation of stress range, Sr. Do not include in service moment range.

Span	Stringer	Stringer Type	Service Moment (kip-ft)	S_x (in^3)	S_r (ksi)	Cat.	K (Detail Constant)	C (cycles per truck passage)	Y_1 (years)	Y_N (years)	Y_f (years)
3	F1-2	A2	18.90	309.63	0.84	B	33	1.50	460086	203817	**203809**
3	S1-2	A2	18.90	35.91	7.26	B	33	1.50	718	318	**310**
5	S3-1	A3	18.70	31.78	8.12	B	33	1.50	514	228	**220**
1	F1-2	A3	18.70	309.63	0.83	B	33	1.50	475007	210427	**210419**
5	F2-2	A2	18.90	309.63	0.84	B	33	1.50	460086	203817	**203809**
5	S11-2	A2	18.90	63.06	4.14	B	33	1.50	3887	1722	**1714**
10	F1-4	A2	18.90	328.89	0.79	B	33	1.50	551394	244266	**244258**
10	S5-4	A2	18.90	34.62	7.53	B	33	1.50	643	285	**277**
6	F2-4	A3	18.70	316.00	0.82	B	33	1.50	504931	223683	**223675**
6	S11-4	A3	18.70	38.06	6.78	B	33	1.50	882	391	**383**
10	F2-8	A3	18.70	322.42	0.80	B	33	1.50	536335	237595	**237587**
10	S7-7	A3	18.70	29.32	8.80	B	33	1.50	403	179	**171**

FLOORBEAM LOAD RATING

FLOORBEAM SECTION PROPERTIES

Made By SFH Date 2/10/2012 Job No. P402110046
Checked By KRS Date 3/29/2012 Sheet No.
Calculations For: ***CUY-2-1441***

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w =$ 6.0000 in
$C_1 = t_f =$ 0.7500 in
$B_1 = l_v =$ 6.0000 in

Bottom Angles:

$B_2 = l_h =$ 6.0000 in
$C_2 = t_f =$ 0.7500 in
$A_2 = l_v =$ 6.0000 in

Web Plate:

$C_3 =$ 0.3750 in
*$B_3 =$ 65.5000 in

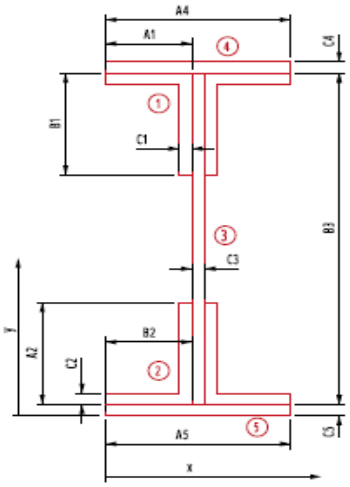
$d_o =$ 65.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

$C_4 =$ 0.0000 in
$A_4 =$ 0.0000 in

Btm Cover Plate:

$C_5 =$ 0.0000 in
$A_5 =$ 0.0000 in



FB 13, 42

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	65.1250	586.1250	0.4219	32.3750	9433.2656	9433.6875
	Vertical Leg	7.8750	62.1250	489.2344	18.0879	29.3750	6795.2637	6813.3516
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	32.3750	9433.2656	9433.6875
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	29.3750	6795.2637	6813.3516
3	Web Plate	24.5625	32.7500	804.4219	8781.6055	0.0000	0.0000	8781.6055
4	Cover Plate Top	0.0000	65.5000	0.0000	0.0000	32.7500	0.0000	0.0000
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	32.7500	0.0000	0.0000
Total		**58.31**		**1909.73**	**8818.63**		**32457.06**	**41275.68**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	32.7500 in	S_{top} =	1260.33 in^3	y-bar =	32.7500 in	S_{top} =	1260.33 in^3
I_x =	41275.68 n^4	$S_{bott.}$ =	1260.33 in^3	I_x =	41275.68 in^4	$S_{bott.}$ =	1260.33 in^3
c_{top} =	32.7500 in	A =	58.3125 in^2	c_{top} =	32.7500 in	A =	58.3125 in^2
c_{bottom} =	32.7500 in	r_x =	26.6052 in	c_{bottom} =	32.7500 in	r_x =	26.6052 in
J =	7.4795	Z =	1447.6172 in^3			Z =	1447.6172 in^3

TranSystems

Made By SFH Date 2/10/2012 Job No. P402110046
Checked By KRS Date 3/29/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A	x	Ax	I_o	d	Ad^2	$I_{y,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
3	Web Plate	24.5625	6.1875	151.9805	0.2878	0.0000	0.0000	0.2878
4	Top Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
4	Bottom Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**58.31**		**360.81**	**55.03**		**187.87**	**242.89**

Section Losses			A	x	Ax	I_o	d	Ad^2	$I_{y,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.1875	in	S_{right} =	39.26	in^3
I_y =	242.89	in^4	S_{left} =	39.26	in^3
c_{right} =	6.1875	in	A =	58.3125	in^2
c_{left} =	6.1875	in	r_y =	2.0409	in

As-Inspected Section Properties					
x-bar =	6.1875	in	S_{right} =	39.26	in^3
I_y =	242.89	in^4	S_{left} =	39.26	in^3
c_{right} =	6.1875	in	A =	58.3125	in^2
c_{left} =	6.1875	in	r_y =	2.0409	in

Non-composite Capacities*		
	AB	AI
M	3465.90 k-ft	3465.90 k-ft
V	520.93 k	520.93 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

Made By SFH Date 2/10/2012 Job No. P402110046
Checked By KRS Date 3/29/2012 Sheet No.
Calculations For: **CUY-2-1441**

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w$ = 6.0000 in
$C_1 = t_f$ = 0.7500 in
$B_1 = l_v$ = 6.0000 in

Bottom Angles:

$B_2 = l_h$ = 6.0000 in
$C_2 = t_f$ = 0.7500 in
$A_2 = l_v$ = 6.0000 in

Web Plate:

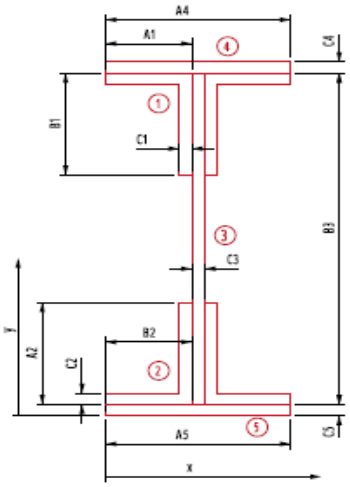
C_3 = 0.3750 in
*B_3 = 65.5000 in
d_o = 65.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

C_4 = 0.6250 in
A_4 = 12.5000 in

Btm Cover Plate:

C_5 = 0.0000 in
A_5 = 0.0000 in



FB 23, 65, 79, 87

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	65.1250	586.1250	0.4219	28.4688	7294.2275	7294.6494
	Vertical Leg	7.8750	62.1250	489.2344	18.0879	25.4688	5108.1757	5126.2635
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	36.2813	11846.9619	11847.3838
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	33.2813	8722.6776	8740.7655
3	Web Plate	24.5625	32.7500	804.4219	8781.6055	3.9063	374.7940	9156.3995
4	Cover Plate Top	7.8125	65.8125	514.1602	0.2543	29.1563	6641.3040	6641.5583
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	36.6563	0.0000	0.0000
Total		**66.13**		**2423.89**	**8818.88**		**39988.14**	**48807.02**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	36.6563 in	S_{top} =	1656.23 in^3	y-bar =	36.6563 in	S_{top} =	1656.23 in^3
I_x =	48807.02 n^4	$S_{bott.}$ =	1331.48 in^3	I_x =	48807.02 in^4	$S_{bott.}$ =	1331.48 in^3
c_{top} =	29.4688 in	A =	66.1250 in^2	c_{top} =	29.4688 in	A =	66.1250 in^2
c_{bottom} =	36.6563 in	r_x =	27.1680 in	c_{bottom} =	36.6563 in	r_x =	27.1680 in
J =	8.4967	Z =	1665.2279 in^3			Z =	1665.2279 in^3

Made By SFH Date 2/10/2012 Job No. P402110046
Checked By KRS Date 3/29/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
3	Web Plate	24.5625	6.2500	153.5156	0.2878	0.0000	0.0000	0.2878
4	Top Cover Plate	7.8125	6.2500	48.8281	203.4505	0.0000	0.0000	203.4505
4	Bottom Cover Plate	0.0000	6.2500	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**66.13**		**413.28**	**258.48**		**187.87**	**446.34**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.2500	in	S_{right} =	71.41	in^3
I_y =	446.34	in^4	S_{left} =	71.41	in^3
c_{right} =	6.2500	in	A =	66.1250	in^2
c_{left} =	6.2500	in	r_y =	2.5981	in

As-Inspected Section Properties					
x-bar =	6.2500	in	S_{right} =	71.41	in^3
I_y =	446.34	in^4	S_{left} =	71.41	in^3
c_{right} =	6.2500	in	A =	66.1250	in^2
c_{left} =	6.2500	in	r_y =	2.5981	in

Non-composite Capacities*		
	AB	AI
M	3661.57 k-ft	3661.57 k-ft
V	520.93 k	520.93 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

Made By SFH Date 2/10/2012 Job No. P402110046
Checked By KRS Date 3/29/2012 Sheet No.
Calculations For: **CUY-2-1441**

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w$ = 6.0000 in
$C_1 = t_f$ = 0.7500 in
$B_1 = l_v$ = 6.0000 in

Bottom Angles:

$B_2 = l_h$ = 6.0000 in
$C_2 = t_f$ = 0.7500 in
$A_2 = l_v$ = 6.0000 in

Web Plate:

C_3 = 0.3750 in
*B_3 = 60.0000 in

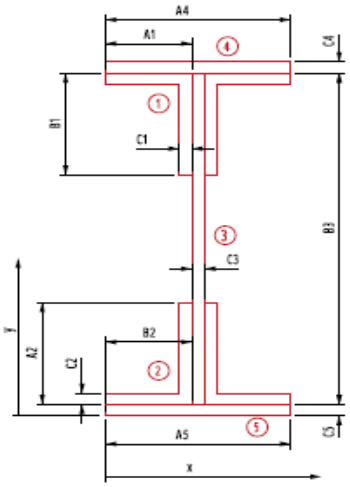
d_o = 65.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

C_4 = 0.0000 in
A_4 = 0.0000 in

Btm Cover Plate:

C_5 = 0.0000 in
A_5 = 0.0000 in



Fb (Typ)

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	59.6250	536.6250	0.4219	29.6250	7898.7656	7899.1875
	Vertical Leg	7.8750	56.6250	445.9219	18.0879	26.6250	5582.5137	5600.6016
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	29.6250	7898.7656	7899.1875
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	26.6250	5582.5137	5600.6016
3	Web Plate	22.5000	30.0000	675.0000	6750.0000	0.0000	0.0000	6750.0000
4	Cover Plate Top	0.0000	60.0000	0.0000	0.0000	30.0000	0.0000	0.0000
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	30.0000	0.0000	0.0000
Total		**56.25**		**1687.50**	**6787.02**		**26962.56**	**33749.58**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties						As-Inspected Section Properties					
y-bar =	30.0000	in	S_{top} =	1124.99	in^3	y-bar =	30.0000	in	S_{top} =	1124.99	in^3
I_x =	33749.58	n^4	$S_{bott.}$ =	1124.99	in^3	I_x =	33749.58	in^4	$S_{bott.}$ =	1124.99	in^3
c_{top} =	30.0000	in	A =	56.2500	in^2	c_{top} =	30.0000	in	A =	56.2500	in^2
c_{bottom} =	30.0000	in	r_x =	24.4947	in	c_{bottom} =	30.0000	in	r_x =	24.4947	in
J =	7.3828		Z =	1290.0938	in^3				Z =	1290.0938	in^3

TranSystems

Made By SFH Date 2/10/2012 Job No. P402110046
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Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
3	Web Plate	22.5000	6.1875	139.2188	0.2637	0.0000	0.0000	0.2637
4	Top Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
4	Bottom Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**56.25**		**348.05**	**55.00**		**187.87**	**242.87**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.1875	in	S_{right} =	39.25	in^3
I_y =	242.87	in^4	S_{left} =	39.25	in^3
c_{right} =	6.1875	in	A =	56.2500	in^2
c_{left} =	6.1875	in	r_y =	2.0779	in

As-Inspected Section Properties					
x-bar =	6.1875	in	S_{right} =	39.25	in^3
I_y =	242.87	in^4	S_{left} =	39.25	in^3
c_{right} =	6.1875	in	A =	56.2500	in^2
c_{left} =	6.1875	in	r_y =	2.0779	in

Non-composite Capacities*		
	AB	AI
M	3093.71 k-ft	3093.71 k-ft
V	564.26 k	564.26 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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Calculations For: **CUY-2-1441**

Element Dimensions (without Section Losses):

Top Angles:
$A_1 = l_w$ = 6.0000 in
$C_1 = t_f$ = 0.7500 in
$B_1 = l_v$ = 6.0000 in

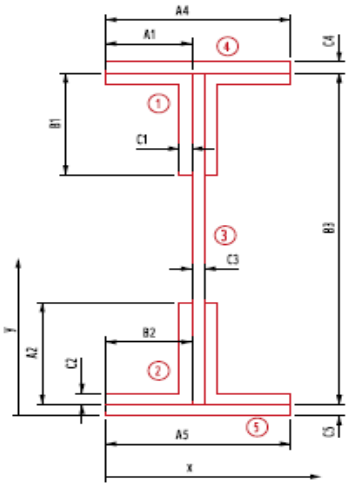
Bottom Angles:
$B_2 = l_h$ = 6.0000 in
$C_2 = t_f$ = 0.7500 in
$A_2 = l_v$ = 6.0000 in

Web Plate:
C_3 = 0.3750 in
*B_3 = 60.0000 in

d_o = 65.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:
C_4 = 0.6250 in
A_4 = 12.5000 in

Btm Cover Plate:
C_5 = 0.0000 in
A_5 = 0.0000 in



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*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	59.6250	536.6250	0.4219	25.9284	6050.5157	6050.9376
	Vertical Leg	7.8750	56.6250	445.9219	18.0879	22.9284	4139.9615	4158.0494
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	33.3216	9992.9890	9993.4109
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	30.3216	7240.2926	7258.3805
3	Web Plate	22.5000	30.0000	675.0000	6750.0000	3.6966	307.4669	7057.4669
4	Cover Plate Top	7.8125	60.3125	471.1914	0.2543	26.6159	5534.4036	5534.6580
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	33.6966	0.0000	0.0000
Total		**64.06**		**2158.69**	**6787.27**		**33265.63**	**40052.90**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties						As-Inspected Section Properties					
y-bar =	33.6966	in	S_{top} =	1487.39	in^3	y-bar =	33.6966	in	S_{top} =	1487.39	in^3
I_x =	40052.90	n^4	$S_{bott.}$ =	1188.63	in^3	I_x =	40052.90	in^4	$S_{bott.}$ =	1188.63	in^3
c_{top} =	26.9284	in	A =	64.0625	in^2	c_{top} =	26.9284	in	A =	64.0625	in^2
c_{bottom} =	33.6966	in	r_x =	25.0043	in	c_{bottom} =	33.6966	in	r_x =	25.0043	in
J =	8.4001		Z =	1486.2201	in^3				Z =	1486.2201	in^3

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Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
3	Web Plate	22.5000	6.2500	140.6250	0.2637	0.0000	0.0000	0.2637
4	Top Cover Plate	7.8125	6.2500	48.8281	203.4505	0.0000	0.0000	203.4505
4	Bottom Cover Plate	0.0000	6.2500	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**64.06**		**400.39**	**258.45**		**187.87**	**446.32**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.2500	in	S_{right} =	71.41	in^3
I_y =	446.32	in^4	S_{left} =	71.41	in^3
c_{right} =	6.2500	in	A =	64.0625	in^2
c_{left} =	6.2500	in	r_y =	2.6395	in

As-Inspected Section Properties					
x-bar =	6.2500	in	S_{right} =	71.41	in^3
I_y =	446.32	in^4	S_{left} =	71.41	in^3
c_{right} =	6.2500	in	A =	64.0625	in^2
c_{left} =	6.2500	in	r_y =	2.6395	in

Non-composite Capacities*		
	AB	AI
M	3268.74 k-ft	3268.74 k-ft
V	564.26 k	564.26 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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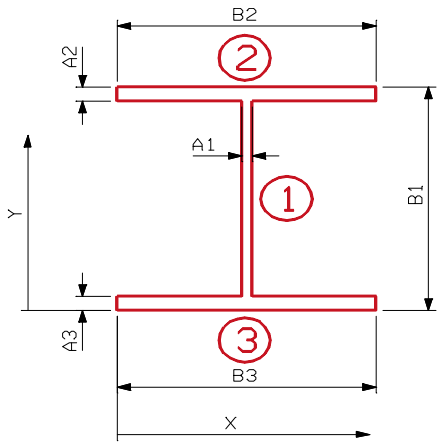
Calculations For: ***CUY-2-1441***

Element Dimensions (without Section Losses):

$A_1 = t_w =$ 0.3750 in
$B_1 = d =$ 60.5000 in
$A_2 = t_f =$ 1.5000 in
$B_2 = b_f =$ 12.0000 in
$A_3 = t_f =$ 1.5000 in
$B_3 = b_f =$ 12.0000 in

$d_o =$ 39.0000 in

d_o = stiffener spacing for shear check for no stiffners use "N/A"



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X-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,gross}$ (in^4)
Element	Description							
1	Web	21.5625	30.2500	652.2656	5940.9180	0.0000	0.0000	5940.9180
2	Top Flange	18.0000	59.7500	1075.5000	3.3750	29.5000	15664.500	15667.875
3	Bottom Flange	18.0000	0.7500	13.5000	3.3750	29.5000	15664.500	15667.875
Total		**57.56**		**1741.27**	**5947.67**		**31329.00**	**37276.67**

Section Losses			A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties						As-Inspected Section Properties					
y-bar =	30.2500	in	S_{top} =	1232.29	in^3	y-bar =	30.2500	in	S_{top} =	1232.29	in^3
I_x =	37276.67	in^4	$S_{bott.}$ =	1232.29	in^3	I_x =	37276.67	in^4	$S_{bott.}$ =	1232.29	in^3
c_{top} =	30.2500	in	A =	57.5625	in^2	c_{top} =	30.2500	in	A =	57.5625	in^2
c_{bottom} =	30.2500	in	r_x =	25.4477	in	c_{bottom} =	30.2500	in	r_x =	25.4477	in
J =	28.0107	in^4	Z =	1371.96	in^3				Z =	1371.96	in^3

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Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Web	21.5625	6.0000	129.3750	0.2527	0.0000	0.0000	0.2527
2	Top Flange	18.0000	6.0000	108.0000	216.0000	0.0000	0.0000	216.0000
3	Bottom Flange	18.0000	6.0000	108.0000	216.0000	0.0000	0.0000	216.0000
Total		**57.56**		**345.38**	**432.25**		**0.00**	**432.25**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.0000	in	S_{right} =	72.04	in^3
I_y =	432.25	n^4	S_{left} =	72.04	in^3
c_{right} =	6.0000	in	A =	57.5625	in^2
c_{left} =	6.0000	in	r_y =	2.7403	in

As-Inspected Section Properties					
x-bar =	6.0000	in	S_{right} =	72.04	in^3
I_y =	432.25	n^4	S_{left} =	72.04	in^3
c_{right} =	6.0000	in	A =	57.5625	in^2
c_{left} =	6.0000	in	r_y =	2.7403	in

Non-composite Capacities*		
	AB	AI
M	3696.9 k-ft	3696.9 k-ft
V	369.88 k	369.88 k

*Noncompact Section

F_y =	36.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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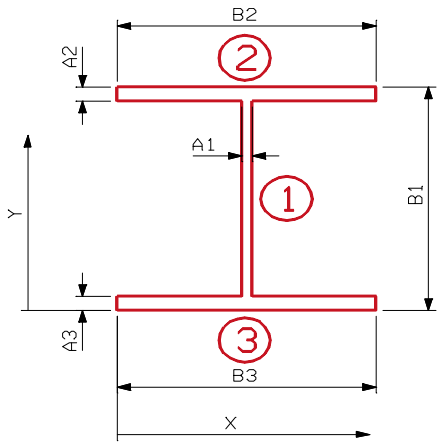
Calculations For: ***CUY-2-1441***

Element Dimensions (without Section Losses):

$A_1 = t_w =$ 0.3750 in
$B_1 = d =$ 60.5000 in
$A_2 = t_f =$ 1.5000 in
$B_2 = b_f =$ 13.0000 in
$A_3 = t_f =$ 1.5000 in
$B_3 = b_f =$ 13.0000 in

$d_o =$ 38.2500 in
d_o = stiffener spacing for shear check for no stiffners use "N/A"



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X-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,gross}$ (in^4)
Element	Description							
1	Web	21.5625	30.2500	652.2656	5940.9180	0.0000	0.0000	5940.9180
2	Top Flange	19.5000	59.7500	1165.1250	3.6563	29.5000	16969.875	16973.531
3	Bottom Flange	19.5000	0.7500	14.6250	3.6563	29.5000	16969.875	16973.531
Total		**60.56**		**1832.02**	**5948.23**		**33939.75**	**39887.98**

Section Losses			A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	30.2500 in	S_{top} =	1318.61 in^3	y-bar =	30.2500 in	S_{top} =	1318.61 in^3
I_x =	39887.98 in^4	$S_{bott.}$ =	1318.61 in^3	I_x =	39887.98 in^4	$S_{bott.}$ =	1318.61 in^3
c_{top} =	30.2500 in	A =	60.5625 in^2	c_{top} =	30.2500 in	A =	60.5625 in^2
c_{bottom} =	30.2500 in	r_x =	25.6637 in	c_{bottom} =	30.2500 in	r_x =	25.6637 in
J =	30.2607 in^4	Z =	1460.46 in^3			Z =	1460.46 in^3

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Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Web	21.5625	6.5000	140.1563	0.2527	0.0000	0.0000	0.2527
2	Top Flange	19.5000	6.5000	126.7500	274.6250	0.0000	0.0000	274.6250
3	Bottom Flange	19.5000	6.5000	126.7500	274.6250	0.0000	0.0000	274.6250
Total		**60.56**		**393.66**	**549.50**		**0.00**	**549.50**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.5000	in	S_{right} =	84.54	in^3
I_y =	549.50	n^4	S_{left} =	84.54	in^3
c_{right} =	6.5000	in	A =	60.5625	in^2
c_{left} =	6.5000	in	r_y =	3.0122	in

As-Inspected Section Properties					
x-bar =	6.5000	in	S_{right} =	84.54	in^3
I_y =	549.50	n^4	S_{left} =	84.54	in^3
c_{right} =	6.5000	in	A =	60.5625	in^2
c_{left} =	6.5000	in	r_y =	3.0122	in

Non-composite Capacities*		
	AB	AI
M	3955.8 k-ft	3955.8 k-ft
V	374.86 k	374.86 k

*Noncompact Section

F_y =	36.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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SECTION FOR MOMENT ZONE

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w$ = 6.0000 in
$C_1 = t_f$ = 0.7500 in
$B_1 = l_v$ = 6.0000 in

Bottom Angles:

$B_2 = l_h$ = 6.0000 in
$C_2 = t_f$ = 0.7500 in
$A_2 = l_v$ = 6.0000 in

Web Plate:

C_3 = 0.3750 in
*B_3 = 65.5000 in

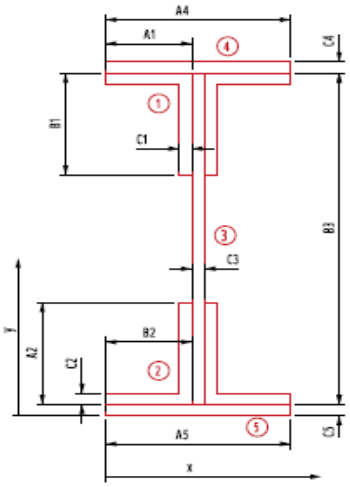
d_o = 65.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

C_4 = 0.0000 in
A_4 = 0.0000 in

Btm Cover Plate:

C_5 = 0.0000 in
A_5 = 0.0000 in



Floorbeam Type 1

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	65.1250	586.1250	0.4219	32.3750	9433.2656	9433.6875
	Vertical Leg	7.8750	62.1250	489.2344	18.0879	29.3750	6795.2637	6813.3516
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	32.3750	9433.2656	9433.6875
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	29.3750	6795.2637	6813.3516
3	Web Plate	24.5625	32.7500	804.4219	8781.6055	0.0000	0.0000	8781.6055
4	Cover Plate Top	0.0000	65.5000	0.0000	0.0000	32.7500	0.0000	0.0000
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	32.7500	0.0000	0.0000
Total		**58.31**		**1909.73**	**8818.63**		**32457.06**	**41275.68**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	12.3750	0.0625	-0.7734	0.0313	-0.0242	-0.0003	32.7937	-831.7748	-831.7750
2	12.3750	0.0625	-0.7734	59.9688	-46.3821	-0.0003	27.1438	-569.8583	-569.8586
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.55**		**-46.41**	**0.00**		**-1401.63**	**-1401.63**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	32.7500 in	S_{top} =	1260.33 in^3	y-bar =	32.8249 in	S_{top} =	1220.32 in^3
I_x =	41275.68 n^4	$S_{bott.}$ =	1260.33 in^3	I_x =	39874.05 in^4	$S_{bott.}$ =	1214.75 in^3
c_{top} =	32.7500 in	A =	58.3125 in^2	c_{top} =	32.6751 in	A =	56.7656 in^2
c_{bottom} =	32.7500 in	r_x =	26.6052 in	c_{bottom} =	32.8249 in	r_x =	26.5035 in
J =	7.4795	Z =	1447.6172 in^3			Z =	1447.6172 in^3

TranSystems

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Calculations For: ***CUY-2-1441*** *kmw AI inputs 3/30/12*

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
3	Web Plate	24.5625	6.1875	151.9805	0.2878	0.0000	0.0000	0.2878
4	Top Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
4	Bottom Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**58.31**		**360.81**	**55.03**		**187.87**	**242.89**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0625	12.3750	-0.7734	6.1875	-4.7856	-9.8704	0.0000	0.0000	-9.8704
2	0.0625	12.3750	-0.7734	6.1875	-4.7856	-9.8704	0.0000	0.0000	-9.8704
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.55**		**-9.57**	**-19.74**		**0.00**	**-19.74**

As-Built Section Properties					
x-bar =	6.1875	in	S_{right} =	39.26	in^3
I_y =	242.89	in^4	S_{left} =	39.26	in^3
c_{right} =	6.1875	in	A =	58.3125	in^2
c_{left} =	6.1875	in	r_y =	2.0409	in

As-Inspected Section Properties					
x-bar =	6.1875	in	S_{right} =	36.06	in^3
I_y =	223.15	in^4	S_{left} =	36.06	in^3
c_{right} =	6.1875	in	A =	56.7656	in^2
c_{left} =	6.1875	in	r_y =	1.9827	in

Non-composite Capacities*		
	AB	AI
M	3465.90 k-ft	3340.56 k-ft
V	520.93 k	510.93 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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Calculations For: **CUY-2-1441** *kmw AI inputs 3/30/12*

SECTION FOR SHEAR ZONE

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w$ = 6.0000 in
$C_1 = t_f$ = 0.7500 in
$B_1 = l_v$ = 6.0000 in

Bottom Angles:

$B_2 = l_h$ = 6.0000 in
$C_2 = t_f$ = 0.7500 in
$A_2 = l_v$ = 6.0000 in

Web Plate:

C_3 = 0.3750 in
*B_3 = 65.5000 in

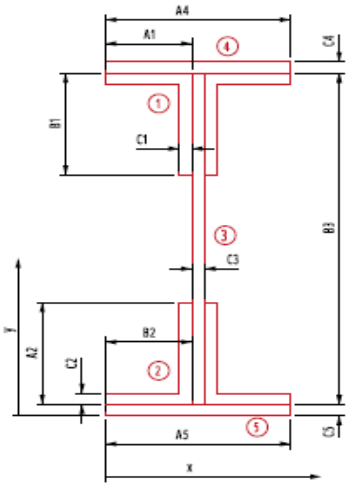
d_o = 65.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

C_4 = 0.0000 in
A_4 = 0.0000 in

Btm Cover Plate:

C_5 = 0.0000 in
A_5 = 0.0000 in



Floorbeam Type 1

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	65.1250	586.1250	0.4219	32.3750	9433.2656	9433.6875
	Vertical Leg	7.8750	62.1250	489.2344	18.0879	29.3750	6795.2637	6813.3516
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	32.3750	9433.2656	9433.6875
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	29.3750	6795.2637	6813.3516
3	Web Plate	24.5625	32.7500	804.4219	8781.6055	0.0000	0.0000	8781.6055
4	Cover Plate Top	0.0000	65.5000	0.0000	0.0000	32.7500	0.0000	0.0000
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	32.7500	0.0000	0.0000
Total		**58.31**		**1909.73**	**8818.63**		**32457.06**	**41275.68**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0625	24.0000	-1.5000	42.0000	-63.0000	-72.0000	9.4942	-135.2104	-207.2104
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.50**		**-63.00**	**-72.00**		**-135.21**	**-207.21**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	32.7500 in	S_{top} =	1260.33 in^3	y-bar =	32.5058 in	S_{top} =	1244.72 in^3
I_x =	41275.68 n^4	$S_{bott.}$ =	1260.33 in^3	I_x =	41068.47 in^4	$S_{bott.}$ =	1263.42 in^3
c_{top} =	32.7500 in	A =	58.3125 in^2	c_{top} =	32.9942 in	A =	56.8125 in^2
c_{bottom} =	32.7500 in	r_x =	26.6052 in	c_{bottom} =	32.5058 in	r_x =	26.8864 in
J =	7.4795	Z =	1447.6172 in^3			Z =	1447.6172 in^3

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Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
3	Web Plate	24.5625	6.1875	151.9805	0.2878	0.0000	0.0000	0.2878
4	Top Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
4	Bottom Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**58.31**		**360.81**	**55.03**		**187.87**	**242.89**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	24.0000	0.0625	-1.5000	6.3438	-9.5156	-0.0005	0.1604	-0.0386	-0.0391
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.50**		**-9.52**	**0.00**		**-0.04**	**-0.04**

As-Built Section Properties					
x-bar =	6.1875	in	S_{right} =	39.26	in^3
I_y =	242.89	in^4	S_{left} =	39.26	in^3
c_{right} =	6.1875	in	A =	58.3125	in^2
c_{left} =	6.1875	in	r_y =	2.0409	in

As-Inspected Section Properties					
x-bar =	6.1834	in	S_{right} =	39.22	in^3
I_y =	242.85	in^4	S_{left} =	39.28	in^3
c_{right} =	6.1916	in	A =	56.8125	in^2
c_{left} =	6.1834	in	r_y =	2.0675	in

Non-composite Capacities*		
	AB	AI
M	3465.90 k-ft	3422.97 k-ft
V	520.93 k	501.54 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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Calculations For: **CUY-2-1441** *kmw inputs 3/29/12*

SECTION FOR SHEAR ZONE

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w =$ 6.0000 in
$C_1 = t_f =$ 0.7500 in
$B_1 = l_v =$ 6.0000 in

Bottom Angles:

$B_2 = l_h =$ 6.0000 in
$C_2 = t_f =$ 0.7500 in
$A_2 = l_v =$ 6.0000 in

Web Plate:

$C_3 =$ 0.3750 in
*$B_3 =$ 65.5000 in

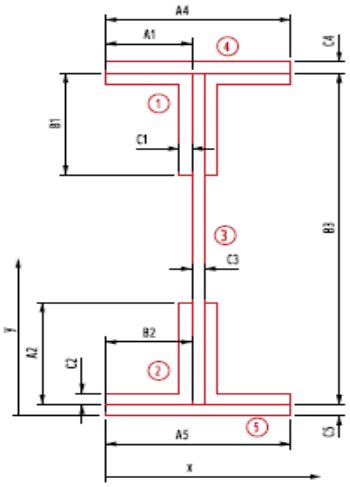
$d_o =$ 65.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

$C_4 =$ 0.6250 in
$A_4 =$ 12.5000 in

Btm Cover Plate:

$C_5 =$ 0.0000 in
$A_5 =$ 0.0000 in



Floorbeam Type 2

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	65.1250	586.1250	0.4219	28.4688	7294.2275	7294.6494
	Vertical Leg	7.8750	62.1250	489.2344	18.0879	25.4688	5108.1757	5126.2635
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	36.2813	11846.9619	11847.3838
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	33.2813	8722.6776	8740.7655
3	Web Plate	24.5625	32.7500	804.4219	8781.6055	3.9063	374.7940	9156.3995
4	Cover Plate Top	7.8125	65.8125	514.1602	0.2543	29.1563	6641.3040	6641.5583
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	36.6563	0.0000	0.0000
Total		**66.13**		**2423.89**	**8818.88**		**39988.14**	**48807.02**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	5.2500	0.0625	-0.3281	64.7188	-21.2358	-0.0001	26.3474	-227.7793	-227.7795
2	0.0625	5.2500	-0.3281	62.1250	-20.3848	-0.7537	23.7536	-185.1397	-185.8933
3	0.1875	53.5000	-10.0313	32.7500	-328.5234	-2392.6621	5.6214	-316.9850	-2709.6471
4	0.0625	5.2500	-0.3281	3.3750	-1.1074	-0.7537	34.9964	-401.8696	-402.6233
5	5.2500	0.3125	-1.6406	0.5938	-0.9741	-0.0134	37.7776	-2341.4151	-2341.4284
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-12.66**		**-372.23**	**-2394.18**		**-3473.19**	**-5867.37**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	36.6563 in	S_{top} =	1656.23 in^3	y-bar =	38.3714 in	S_{top} =	1547.17 in^3
I_x =	48807.02 n^4	$S_{bott.}$ =	1331.48 in^3	I_x =	42939.65 in^4	$S_{bott.}$ =	1119.05 in^3
c_{top} =	29.4688 in	A =	66.1250 in^2	c_{top} =	27.7536 in	A =	53.4688 in^2
c_{bottom} =	36.6563 in	r_x =	27.1680 in	c_{bottom} =	38.3714 in	r_x =	28.3387 in
J =	8.4967	Z =	1665.2279 in^3			Z =	1665.2279 in^3

TranSystems

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Calculations For: ***CUY-2-1441*** *kmw inputs 3/29/12*

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
3	Web Plate	24.5625	6.2500	153.5156	0.2878	0.0000	0.0000	0.2878
4	Top Cover Plate	7.8125	6.2500	48.8281	203.4505	0.0000	0.0000	203.4505
4	Bottom Cover Plate	0.0000	6.2500	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**66.13**		**413.28**	**258.48**		**187.87**	**446.34**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0625	5.2500	-0.3281	2.6250	-0.8613	-0.7537	3.7997	-4.7373	-5.4910
2	5.2500	0.0625	-0.3281	5.2813	-1.7329	-0.0001	1.1434	-0.4290	-0.4291
3	53.5000	0.1875	-10.0313	6.0938	-61.1279	-0.0294	0.3309	-1.0986	-1.1279
4	5.2500	0.0625	-0.3281	5.2813	-1.7329	-0.0001	1.1434	-0.4290	-0.4291
5	0.3125	5.2500	-1.6406	2.6250	-4.3066	-3.7683	3.7997	-23.6866	-27.4549
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-12.66**		**-69.76**	**-4.55**		**-30.38**	**-34.93**

As-Built Section Properties					As-Inspected Section Properties				
x-bar =	6.2500	in	S_{right} =	71.41 in^3	x-bar =	6.4247	in	S_{right} =	67.72 in^3
I_y =	446.34	in^4	S_{left} =	71.41 in^3	I_y =	411.41	in^4	S_{left} =	64.04 in^3
c_{right} =	6.2500	in	A =	66.1250 in^2	c_{right} =	6.0753	in	A =	53.4688 in^2
c_{left} =	6.2500	in	r_y =	2.5981 in	c_{left} =	6.4247	in	r_y =	2.7739 in

Non-composite Capacities*		
	AB	AI
M	3661.57 k-ft	3077.40 k-ft
V	520.93 k	378.58 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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Calculations For: **CUY-2-1441** *kmw inputs 3/29/12*

SECTION FOR MOMENT ZONE

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w =$ 6.0000 in
$C_1 = t_f =$ 0.7500 in
$B_1 = l_v =$ 6.0000 in

Bottom Angles:

$B_2 = l_h =$ 6.0000 in
$C_2 = t_f =$ 0.7500 in
$A_2 = l_v =$ 6.0000 in

Web Plate:

$C_3 =$ 0.3750 in
*$B_3 =$ 60.0000 in

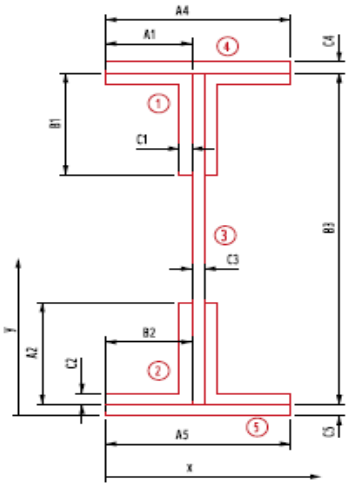
$d_o =$ 65.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

$C_4 =$ 0.6250 in
$A_4 =$ 12.5000 in

Btm Cover Plate:

$C_5 =$ 0.0000 in
$A_5 =$ 0.0000 in



Floorbeam Type 5

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	59.6250	536.6250	0.4219	25.9284	6050.5157	6050.9376
	Vertical Leg	7.8750	56.6250	445.9219	18.0879	22.9284	4139.9615	4158.0494
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	33.3216	9992.9890	9993.4109
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	30.3216	7240.2926	7258.3805
3	Web Plate	22.5000	30.0000	675.0000	6750.0000	3.6966	307.4669	7057.4669
4	Cover Plate Top	7.8125	60.3125	471.1914	0.2543	26.6159	5534.4036	5534.6580
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	33.6966	0.0000	0.0000
Total		**64.06**		**2158.69**	**6787.27**		**33265.63**	**40052.90**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	12.3750	0.0625	-0.7734	0.0313	-0.0242	-0.0003	33.7569	-881.3521	-881.3524
2	12.3750	0.0625	-0.7734	59.9688	-46.3821	-0.0003	26.1806	-530.1339	-530.1341
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.55**		**-46.41**	**0.00**		**-1411.49**	**-1411.49**

As-Built Section Properties						As-Inspected Section Properties					
y-bar =	33.6966	in	S_{top} =	1487.39	in^3	y-bar =	33.7881	in	S_{top} =	1439.86	in^3
I_x =	40052.90	n^4	$S_{bott.}$ =	1188.63	in^3	I_x =	38641.42	in^4	$S_{bott.}$ =	1143.64	in^3
c_{top} =	26.9284	in	A =	64.0625	in^2	c_{top} =	26.8369	in	A =	62.5156	in^2
c_{bottom} =	33.6966	in	r_x =	25.0043	in	c_{bottom} =	33.7881	in	r_x =	24.8618	in
J =	8.4001		Z =	1486.2201	in^3				Z =	1486.2201	in^3

TranSystems

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Calculations For: ***CUY-2-1441*** *kmw inputs 3/29/12*

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
3	Web Plate	22.5000	6.2500	140.6250	0.2637	0.0000	0.0000	0.2637
4	Top Cover Plate	7.8125	6.2500	48.8281	203.4505	0.0000	0.0000	203.4505
4	Bottom Cover Plate	0.0000	6.2500	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**64.06**		**400.39**	**258.45**		**187.87**	**446.32**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0625	12.3750	-0.7734	6.1875	-4.7856	-9.8704	0.0640	-0.0032	-9.8736
2	0.0625	12.3750	-0.7734	6.1875	-4.7856	-9.8704	0.0640	-0.0032	-9.8736
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.55**		**-9.57**	**-19.74**		**-0.01**	**-19.75**

As-Built Section Properties					As-Inspected Section Properties				
x-bar =	6.2500	in	S_{right} =	71.41 in^3	x-bar =	6.2515	in	S_{right} =	68.27 in^3
I_y =	446.32	in^4	S_{left} =	71.41 in^3	I_y =	426.57	in^4	S_{left} =	68.23 in^3
c_{right} =	6.2500	in	A =	64.0625 in^2	c_{right} =	6.2485	in	A =	62.5156 in^2
c_{left} =	6.2500	in	r_y =	2.6395 in	c_{left} =	6.2515	in	r_y =	2.6122 in

Non-composite Capacities*		
	AB	AI
M	3268.74 k-ft	3145.01 k-ft
V	564.26 k	564.26 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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Calculations For: ***CUY-2-1441*** *kmw inputs 3/29/12*

SECTION FOR SHEAR ZONE

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w$ = 6.0000 in
$C_1 = t_f$ = 0.7500 in
$B_1 = l_v$ = 6.0000 in

Bottom Angles:

$B_2 = l_h$ = 6.0000 in
$C_2 = t_f$ = 0.7500 in
$A_2 = l_v$ = 6.0000 in

Web Plate:

C_3 = 0.3750 in
*B_3 = 65.5000 in

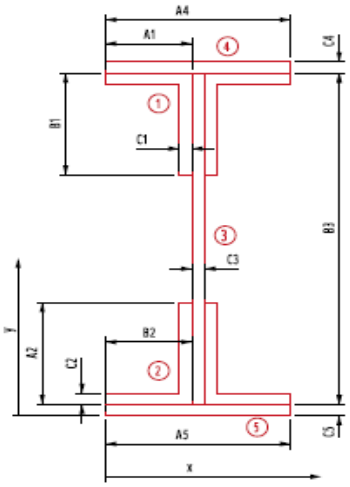
d_o = 65.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

C_4 = 0.6250 in
A_4 = 12.5000 in

Btm Cover Plate:

C_5 = 0.0000 in
A_5 = 0.0000 in



Floorbeam Type 2

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	65.1250	586.1250	0.4219	28.4688	7294.2275	7294.6494
	Vertical Leg	7.8750	62.1250	489.2344	18.0879	25.4688	5108.1757	5126.2635
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	36.2813	11846.9619	11847.3838
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	33.2813	8722.6776	8740.7655
3	Web Plate	24.5625	32.7500	804.4219	8781.6055	3.9063	374.7940	9156.3995
4	Cover Plate Top	7.8125	65.8125	514.1602	0.2543	29.1563	6641.3040	6641.5583
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	36.6563	0.0000	0.0000
Total		**66.13**		**2423.89**	**8818.88**		**39988.14**	**48807.02**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.1250	32.0000	-4.0000	38.0000	-152.0000	-341.3333	0.2851	-0.3251	-341.6584
2	0.1875	16.0000	-3.0000	14.0000	-42.0000	-64.0000	23.7149	-1687.1920	-1751.1920
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-7.00**		**-194.00**	**-405.33**		**-1687.52**	**-2092.85**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	36.6563 in	S_{top} =	1656.23 in^3	y-bar =	37.7149 in	S_{top} =	1644.28 in^3
I_x =	48807.02 n^4	$S_{bott.}$ =	1331.48 in^3	I_x =	46714.17 in^4	$S_{bott.}$ =	1238.61 in^3
c_{top} =	29.4688 in	A =	66.1250 in^2	c_{top} =	28.4101 in	A =	59.1250 in^2
c_{bottom} =	36.6563 in	r_x =	27.1680 in	c_{bottom} =	37.7149 in	r_x =	28.1086 in
J =	8.4967	Z =	1665.2279 in^3			Z =	1665.2279 in^3

TranSystems

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Calculations For: ***CUY-2-1441*** *kmw inputs 3/29/12*

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
3	Web Plate	24.5625	6.2500	153.5156	0.2878	0.0000	0.0000	0.2878
4	Top Cover Plate	7.8125	6.2500	48.8281	203.4505	0.0000	0.0000	203.4505
4	Bottom Cover Plate	0.0000	6.2500	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**66.13**		**413.28**	**258.48**		**187.87**	**446.34**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	32.0000	0.1250	-4.0000	6.0625	-24.2500	-0.0052	0.2081	-0.1732	-0.1785
2	16.0000	0.1875	-3.0000	6.0938	-18.2813	-0.0088	0.1769	-0.0938	-0.1026
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-7.00**		**-42.53**	**-0.01**		**-0.27**	**-0.28**

As-Built Section Properties					
x-bar =	6.2500	in	S_{right} =	71.41	in^3
I_y =	446.34	in^4	S_{left} =	71.41	in^3
c_{right} =	6.2500	in	A =	66.1250	in^2
c_{left} =	6.2500	in	r_y =	2.5981	in

As-Inspected Section Properties					
x-bar =	6.2706	in	S_{right} =	71.61	in^3
I_y =	446.06	in^4	S_{left} =	71.14	in^3
c_{right} =	6.2294	in	A =	59.1250	in^2
c_{left} =	6.2706	in	r_y =	2.7467	in

Non-composite Capacities*		
	AB	AI
M	3661.57 k-ft	3406.18 k-ft
V	520.93 k	430.47 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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Calculations For: **CUY-2-1441** *kmw inputs 3/29/12*

SECTION FOR MOMENT ZONE

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w =$ 6.0000 in
$C_1 = t_f =$ 0.7500 in
$B_1 = l_v =$ 6.0000 in

Bottom Angles:

$B_2 = l_h =$ 6.0000 in
$C_2 = t_f =$ 0.7500 in
$A_2 = l_v =$ 6.0000 in

Web Plate:

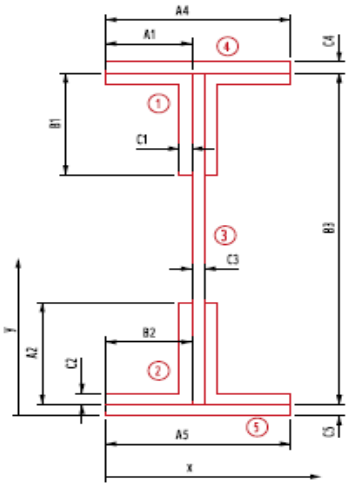
$C_3 =$ 0.3750 in
*$B_3 =$ 60.0000 in
$d_o =$ 65.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

$C_4 =$ 0.0000 in
$A_4 =$ 0.0000 in

Btm Cover Plate:

$C_5 =$ 0.0000 in
$A_5 =$ 0.0000 in



Floorbeam Type 3

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	59.6250	536.6250	0.4219	29.6250	7898.7656	7899.1875
	Vertical Leg	7.8750	56.6250	445.9219	18.0879	26.6250	5582.5137	5600.6016
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	29.6250	7898.7656	7899.1875
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	26.6250	5582.5137	5600.6016
3	Web Plate	22.5000	30.0000	675.0000	6750.0000	0.0000	0.0000	6750.0000
4	Cover Plate Top	0.0000	60.0000	0.0000	0.0000	30.0000	0.0000	0.0000
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	30.0000	0.0000	0.0000
Total		**56.25**		**1687.50**	**6787.02**		**26962.56**	**33749.58**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	12.3750	0.0625	-0.7734	59.9688	-46.3821	-0.0003	29.9688	-694.6443	-694.6446
2	12.3750	0.0625	-0.7734	0.0313	-0.0242	-0.0003	29.9688	-694.6443	-694.6446
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.55**		**-46.41**	**0.00**		**-1389.29**	**-1389.29**

As-Built Section Properties						As-Inspected Section Properties					
y-bar =	30.0000	in	S_{top} =	1124.99	in^3	y-bar =	30.0000	in	S_{top} =	1078.68	in^3
I_x =	33749.58	n^4	$S_{bott.}$ =	1124.99	in^3	I_x =	32360.29	in^4	$S_{bott.}$ =	1078.68	in^3
c_{top} =	30.0000	in	A =	56.2500	in^2	c_{top} =	30.0000	in	A =	54.7031	in^2
c_{bottom} =	30.0000	in	r_x =	24.4947	in	c_{bottom} =	30.0000	in	r_x =	24.3220	in
J =	7.3828		Z =	1290.0938	in^3				Z =	1290.0938	in^3

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Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
3	Web Plate	22.5000	6.1875	139.2188	0.2637	0.0000	0.0000	0.2637
4	Top Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
4	Bottom Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**56.25**		**348.05**	**55.00**		**187.87**	**242.87**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0625	12.3750	-0.7734	6.1875	-4.7856	-9.8704	0.0000	0.0000	-9.8704
2	0.0625	12.3750	-0.7734	6.1875	-4.7856	-9.8704	0.0000	0.0000	-9.8704
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.55**		**-9.57**	**-19.74**		**0.00**	**-19.74**

As-Built Section Properties					
x-bar =	6.1875	in	S_{right} =	39.25	in^3
I_y =	242.87	in^4	S_{left} =	39.25	in^3
c_{right} =	6.1875	in	A =	56.2500	in^2
c_{left} =	6.1875	in	r_y =	2.0779	in

As-Inspected Section Properties					
x-bar =	6.1875	in	S_{right} =	36.06	in^3
I_y =	223.13	in^4	S_{left} =	36.06	in^3
c_{right} =	6.1875	in	A =	54.7031	in^2
c_{left} =	6.1875	in	r_y =	2.0196	in

Non-composite Capacities*		
	AB	AI
M	3093.71 k-ft	2966.36 k-ft
V	564.26 k	564.26 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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FOR SHEAR ZONE

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w$ = 6.0000 in
$C_1 = t_f$ = 0.7500 in
$B_1 = l_v$ = 6.0000 in

Bottom Angles:

$B_2 = l_h$ = 6.0000 in
$C_2 = t_f$ = 0.7500 in
$A_2 = l_v$ = 6.0000 in

Web Plate:

C_3 = 0.3750 in
*B_3 = 65.5000 in

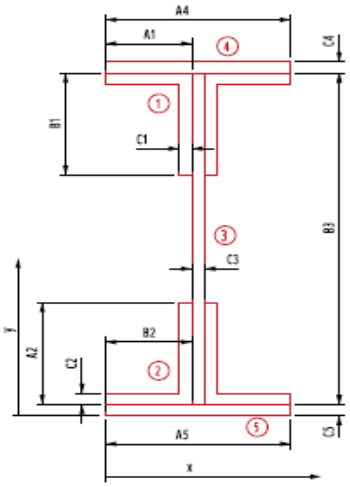
d_o = 48.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

C_4 = 0.6250 in
A_4 = 12.5000 in

Btm Cover Plate:

C_5 = 0.0000 in
A_5 = 0.0000 in



Floorbeam Type 2

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	65.1250	586.1250	0.4219	28.4688	7294.2275	7294.6494
	Vertical Leg	7.8750	62.1250	489.2344	18.0879	25.4688	5108.1757	5126.2635
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	36.2813	11846.9619	11847.3838
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	33.2813	8722.6776	8740.7655
3	Web Plate	24.5625	32.7500	804.4219	8781.6055	3.9063	374.7940	9156.3995
4	Cover Plate Top	7.8125	65.8125	514.1602	0.2543	29.1563	6641.3040	6641.5583
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	36.6563	0.0000	0.0000
Total		**66.13**		**2423.89**	**8818.88**		**39988.14**	**48807.02**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.2500	26.7500	-6.6875	19.3750	-129.5703	-398.7770	19.6877	-2592.1143	-2990.8913
2	0.2500	5.2500	-1.3125	3.3750	-4.4297	-3.0146	35.6877	-1671.6165	-1674.6311
3	0.0625	26.7500	-1.6719	46.1250	-77.1152	-99.6943	7.0623	-83.3864	-183.0806
4	0.0625	5.2500	-0.3281	62.1250	-20.3848	-0.7537	23.0623	-174.5196	-175.2733
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-10.00**		**-231.50**	**-502.24**		**-4521.64**	**-5023.88**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	36.6563 in	S_{top} =	1656.23 in^3	y-bar =	39.0627 in	S_{top} =	1617.87 in^3
I_x =	48807.02 n^4	$S_{bott.}$ =	1331.48 in^3	I_x =	43783.14 in^4	$S_{bott.}$ =	1120.84 in^3
c_{top} =	29.4688 in	A =	66.1250 in^2	c_{top} =	27.0623 in	A =	56.1250 in^2
c_{bottom} =	36.6563 in	r_x =	27.1680 in	c_{bottom} =	39.0627 in	r_x =	27.9303 in
J =	8.4967	Z =	1665.2279 in^3			Z =	1665.2279 in^3

TranSystems

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Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
3	Web Plate	24.5625	6.2500	153.5156	0.2878	0.0000	0.0000	0.2878
4	Top Cover Plate	7.8125	6.2500	48.8281	203.4505	0.0000	0.0000	203.4505
4	Bottom Cover Plate	0.0000	6.2500	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**66.13**		**413.28**	**258.48**		**187.87**	**446.34**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	26.7500	0.2500	-6.6875	6.1250	-40.9609	-0.0348	0.1692	-0.1914	-0.2263
2	5.2500	0.2500	-1.3125	5.3750	-7.0547	-0.0068	0.9192	-1.1090	-1.1158
3	26.7500	0.0625	-1.6719	6.1250	-10.2402	-0.0005	0.1692	-0.0479	-0.0484
4	5.2500	0.0625	-0.3281	5.3750	-1.7637	-0.0001	0.9192	-0.2772	-0.2773
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-10.00**		**-60.02**	**-0.04**		**-1.63**	**-1.67**

As-Built Section Properties					
x-bar =	6.2500	in	S_{right} =	71.41	in^3
I_y =	446.34	in^4	S_{left} =	71.41	in^3
c_{right} =	6.2500	in	A =	66.1250	in^2
c_{left} =	6.2500	in	r_y =	2.5981	in

As-Inspected Section Properties					
x-bar =	6.2942	in	S_{right} =	71.65	in^3
I_y =	444.68	in^4	S_{left} =	70.65	in^3
c_{right} =	6.2058	in	A =	56.1250	in^2
c_{left} =	6.2942	in	r_y =	2.8148	in

Non-composite Capacities*		
	AB	AI
M	3661.57 k-ft	3082.32 k-ft
V	675.74 k	508.11 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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Calculations For: **CUY-2-1441** *kmw inputs 3/29/12*

SECTION FOR MOMENT ZONE

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w =$ 6.0000 in
$C_1 = t_f =$ 0.7500 in
$B_1 = l_v =$ 6.0000 in

Bottom Angles:

$B_2 = l_h =$ 6.0000 in
$C_2 = t_f =$ 0.7500 in
$A_2 = l_v =$ 6.0000 in

Web Plate:

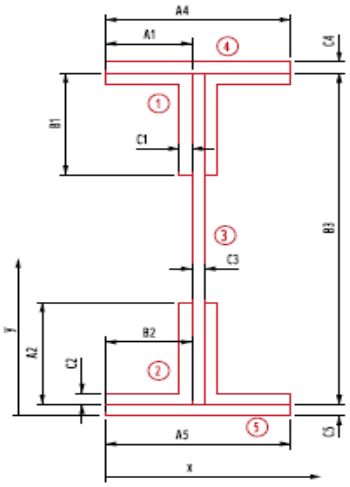
$C_3 =$ 0.3750 in
*$B_3 =$ 65.5000 in
$d_o =$ 65.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

$C_4 =$ 0.6250 in
$A_4 =$ 12.5000 in

Btm Cover Plate:

$C_5 =$ 0.0000 in
$A_5 =$ 0.0000 in



Floorbeam Type 2

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	65.1250	586.1250	0.4219	28.4688	7294.2275	7294.6494
	Vertical Leg	7.8750	62.1250	489.2344	18.0879	25.4688	5108.1757	5126.2635
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	36.2813	11846.9619	11847.3838
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	33.2813	8722.6776	8740.7655
3	Web Plate	24.5625	32.7500	804.4219	8781.6055	3.9063	374.7940	9156.3995
4	Cover Plate Top	7.8125	65.8125	514.1602	0.2543	29.1563	6641.3040	6641.5583
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	36.6563	0.0000	0.0000
Total		**66.13**		**2423.89**	**8818.88**		**39988.14**	**48807.02**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	12.3750	0.0625	-0.7734	0.0313	-0.0242	-0.0003	36.7186	-1042.7896	-1042.7899
2	12.3750	0.0625	-0.7734	65.4688	-50.6360	-0.0003	28.7189	-637.9135	-637.9137
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.55**		**-50.66**	**0.00**		**-1680.70**	**-1680.70**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	36.6563 in	S_{top} =	1656.23 in^3	y-bar =	36.7498 in	S_{top} =	1604.29 in^3
I_x =	48807.02 n^4	$S_{bott.}$ =	1331.48 in^3	I_x =	47126.32 in^4	$S_{bott.}$ =	1282.36 in^3
c_{top} =	29.4688 in	A =	66.1250 in^2	c_{top} =	29.3752 in	A =	64.5781 in^2
c_{bottom} =	36.6563 in	r_x =	27.1680 in	c_{bottom} =	36.7498 in	r_x =	27.0140 in
J =	8.4967	Z =	1665.2279 in^3			Z =	1665.2279 in^3

TranSystems

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Calculations For: ***CUY-2-1441*** *kmw inputs 3/29/12*

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
3	Web Plate	24.5625	6.2500	153.5156	0.2878	0.0000	0.0000	0.2878
4	Top Cover Plate	7.8125	6.2500	48.8281	203.4505	0.0000	0.0000	203.4505
4	Bottom Cover Plate	0.0000	6.2500	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**66.13**		**413.28**	**258.48**		**187.87**	**446.34**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0625	12.3750	-0.7734	6.2500	-4.8340	-9.8704	0.0000	0.0000	-9.8704
2	0.0625	12.3750	-0.7734	6.2500	-4.8340	-9.8704	0.0000	0.0000	-9.8704
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.55**		**-9.67**	**-19.74**		**0.00**	**-19.74**

As-Built Section Properties					
x-bar =	6.2500	in	S_{right} =	71.41	in^3
I_y =	446.34	in^4	S_{left} =	71.41	in^3
c_{right} =	6.2500	in	A =	66.1250	in^2
c_{left} =	6.2500	in	r_y =	2.5981	in

As-Inspected Section Properties					
x-bar =	6.2500	in	S_{right} =	68.26	in^3
I_y =	426.60	in^4	S_{left} =	68.26	in^3
c_{right} =	6.2500	in	A =	64.5781	in^2
c_{left} =	6.2500	in	r_y =	2.5702	in

Non-composite Capacities*		
	AB	AI
M	3661.57 k-ft	3526.48 k-ft
V	520.93 k	520.93 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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Calculations For: ***CUY-2-1441*** *kmw inputs 3/29/12*

SECTION FOR SHEAR ZONE

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w =$ 6.0000 in
$C_1 = t_f =$ 0.7500 in
$B_1 = l_v =$ 6.0000 in

Bottom Angles:

$B_2 = l_h =$ 6.0000 in
$C_2 = t_f =$ 0.7500 in
$A_2 = l_v =$ 6.0000 in

Web Plate:

$C_3 =$ 0.3750 in
*$B_3 =$ 65.5000 in

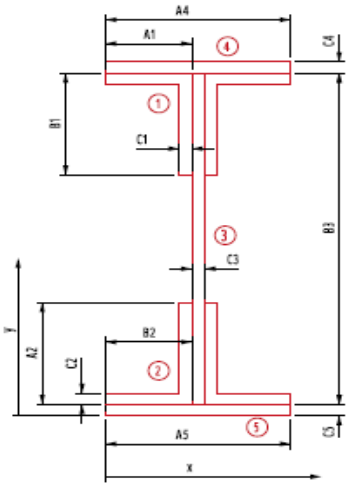
$d_o =$ 65.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

$C_4 =$ 0.6250 in
$A_4 =$ 12.5000 in

Btm Cover Plate:

$C_5 =$ 0.0000 in
$A_5 =$ 0.0000 in



Floorbeam Type 2

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	65.1250	586.1250	0.4219	28.4688	7294.2275	7294.6494
	Vertical Leg	7.8750	62.1250	489.2344	18.0879	25.4688	5108.1757	5126.2635
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	36.2813	11846.9619	11847.3838
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	33.2813	8722.6776	8740.7655
3	Web Plate	24.5625	32.7500	804.4219	8781.6055	3.9063	374.7940	9156.3995
4	Cover Plate Top	7.8125	65.8125	514.1602	0.2543	29.1563	6641.3040	6641.5583
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	36.6563	0.0000	0.0000
Total		**66.13**		**2423.89**	**8818.88**		**39988.14**	**48807.02**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0625	53.5000	-3.3438	32.7500	-109.5078	-797.5540	4.4976	-67.6391	-865.1931
2	0.0625	5.2500	-0.3281	62.1250	-20.3848	-0.7537	24.8774	-203.0715	-203.8251
3	0.0625	5.2500	-0.3281	3.3750	-1.1074	-0.7537	33.8726	-376.4755	-377.2291
4	0.1250	12.0000	-1.5000	24.0000	-36.0000	-18.0000	13.2476	-263.2488	-281.2488
5	0.1875	0.5000	-0.0938	24.0000	-2.2500	-0.0020	13.2476	-16.4531	-16.4550
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-5.59**		**-169.25**	**-817.06**		**-926.89**	**-1743.95**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	36.6563 in	S_{top} =	1656.23 in^3	y-bar =	37.2476 in	S_{top} =	1629.76 in^3
I_x =	48807.02 n^4	$S_{bott.}$ =	1331.48 in^3	I_x =	47063.07 in^4	$S_{bott.}$ =	1263.52 in^3
c_{top} =	29.4688 in	A =	66.1250 in^2	c_{top} =	28.8774 in	A =	60.5313 in^2
c_{bottom} =	36.6563 in	r_x =	27.1680 in	c_{bottom} =	37.2476 in	r_x =	27.8837 in
J =	8.4967	Z =	1665.2279 in^3			Z =	1665.2279 in^3

TranSystems

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Calculations For: ***CUY-2-1441*** *kmw inputs 3/29/12*

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0625	13.7813	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6875	22.3945	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.4375	42.4688	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.8125	26.8242	0.1846	0.5625	1.2458	1.4304
3	Web Plate	24.5625	6.2500	153.5156	0.2878	0.0000	0.0000	0.2878
4	Top Cover Plate	7.8125	6.2500	48.8281	203.4505	0.0000	0.0000	203.4505
4	Bottom Cover Plate	0.0000	6.2500	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**66.13**		**413.28**	**258.48**		**187.87**	**446.34**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	53.5000	0.0625	-3.3438	6.0313	-20.1670	-0.0011	0.2651	-0.2349	-0.2360
2	5.2500	0.0625	-0.3281	5.2813	-1.7329	-0.0001	1.0151	-0.3381	-0.3382
3	5.2500	0.0625	-0.3281	5.2813	-1.7329	-0.0001	1.0151	-0.3381	-0.3382
4	12.0000	0.1250	-1.5000	5.3438	-8.0156	-0.0020	0.9526	-1.3610	-1.3630
5	0.5000	0.1875	-0.0938	5.4375	-0.5098	-0.0003	0.8588	-0.0691	-0.0694
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-5.59**		**-32.16**	**0.00**		**-2.34**	**-2.34**

As-Built Section Properties						As-Inspected Section Properties					
x-bar =	6.2500	in	S_{right} =	71.41	in^3	x-bar =	6.2963	in	S_{right} =	71.57	in^3
I_y =	446.34	in^4	S_{left} =	71.41	in^3	I_y =	444.00	in^4	S_{left} =	70.52	in^3
c_{right} =	6.2500	in	A =	66.1250	in^2	c_{right} =	6.2037	in	A =	60.5313	in^2
c_{left} =	6.2500	in	r_y =	2.5981	in	c_{left} =	6.2963	in	r_y =	2.7083	in

Non-composite Capacities*		
	AB	AI
M	3661.57 k-ft	3474.68 k-ft
V	520.93 k	448.64 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

TranSystems

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Calculations For: ***CUY-2-1441*** *kmw inputs 3/29/12*

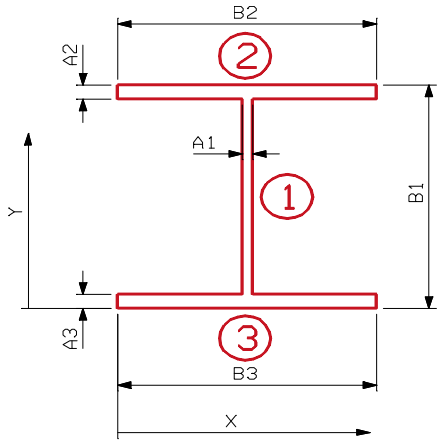
SECTION FOR MOMENT ZONE

Element Dimensions (without Section Losses):

$A_1 = t_w =$ 0.3750 in
$B_1 = d =$ 60.5000 in
$A_2 = t_f =$ 1.5000 in
$B_2 = b_f =$ 12.0000 in
$A_3 = t_f =$ 1.5000 in
$B_3 = b_f =$ 12.0000 in

$d_o =$ 39.0000 in

d_o = stiffener spacing for shear check for no stiffners use "N/A"



Floorbeam Type 6

X-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,gross}$ (in^4)
Element	Description							
1	Web	21.5625	30.2500	652.2656	5940.9180	0.0000	0.0000	5940.9180
2	Top Flange	18.0000	59.7500	1075.5000	3.3750	29.5000	15664.500	15667.875
3	Bottom Flange	18.0000	0.7500	13.5000	3.3750	29.5000	15664.500	15667.875
Total		**57.56**		**1741.27**	**5947.67**		**31329.00**	**37276.67**
Section Losses		A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,loss}$ (in^4)
Loss #	b (in) h (in)							
1	12.0000 0.0625	-0.7500	0.0313	-0.0234	-0.0002	30.2188	-684.8796	-684.8799
2	12.0000 0.0625	-0.7500	60.4688	-45.3516	-0.0002	30.2188	-684.8796	-684.8799
3	0.0625 28.7500	-1.7969	30.2500	-54.3555	-123.7691	0.0000	0.0000	-123.7691
4	0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**-3.30**		**-99.73**	**-123.77**		**-1369.76**	**-1493.53**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	30.2500 in	S_{top} =	1232.29 in^3	y-bar =	30.2500 in	S_{top} =	1182.91 in^3
I_x =	37276.67 in^4	$S_{bott.}$ =	1232.29 in^3	I_x =	35783.14 in^4	$S_{bott.}$ =	1182.91 in^3
c_{top} =	30.2500 in	A =	57.5625 in^2	c_{top} =	30.2500 in	A =	54.2656 in^2
c_{bottom} =	30.2500 in	r_x =	25.4477 in	c_{bottom} =	30.2500 in	r_x =	25.6789 in
J =	28.0107 in^4	Z =	1371.96 in^3			Z =	1371.96 in^3

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Calculations For: ***CUY-2-1441*** *kmw inputs 3/29/12*

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Web	21.5625	6.0000	129.3750	0.2527	0.0000	0.0000	0.2527
2	Top Flange	18.0000	6.0000	108.0000	216.0000	0.0000	0.0000	216.0000
3	Bottom Flange	18.0000	6.0000	108.0000	216.0000	0.0000	0.0000	216.0000
Total		**57.56**		**345.38**	**432.25**		**0.00**	**432.25**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0625	12.0000	-0.7500	6.0000	-4.5000	-9.0000	0.0052	0.0000	-9.0000
2	0.0625	12.0000	-0.7500	6.0000	-4.5000	-9.0000	0.0052	0.0000	-9.0000
3	28.7500	0.0625	-1.7969	6.1563	-11.0620	-0.0006	0.1614	-0.0468	-0.0474
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-3.30**		**-20.06**	**-18.00**		**-0.05**	**-18.05**

As-Built Section Properties						As-Inspected Section Properties					
x-bar =	6.0000	in	S_{right} =	72.04	in^3	x-bar =	5.9948	in	S_{right} =	68.97	in^3
I_y =	432.25	n^4	S_{left} =	72.04	in^3	I_y =	414.21	n^4	S_{left} =	69.09	in^3
c_{right} =	6.0000	in	A =	57.5625	in^2	c_{right} =	6.0052	in	A =	54.2656	in^2
c_{left} =	6.0000	in	r_y =	2.7403	in	c_{left} =	5.9948	in	r_y =	2.7628	in

Non-composite Capacities*		
	AB	AI
M	3696.9 k-ft	3548.74 k-ft
V	369.88 k	339.06 k

*Noncompact Section

F_y =	36.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

TranSystems

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SECTION FOR MOMENT ZONE

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w$ = 6.0000 in
$C_1 = t_f$ = 0.7500 in
$B_1 = l_v$ = 6.0000 in

Bottom Angles:

$B_2 = l_h$ = 6.0000 in
$C_2 = t_f$ = 0.7500 in
$A_2 = l_v$ = 6.0000 in

Web Plate:

C_3 = 0.3750 in
*B_3 = 60.0000 in

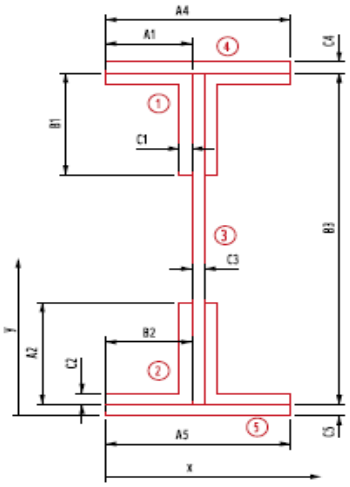
d_o = 65.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

C_4 = 0.0000 in
A_4 = 0.0000 in

Btm Cover Plate:

C_5 = 0.0000 in
A_5 = 0.0000 in



Floorbeam Type 3

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	59.6250	536.6250	0.4219	29.6250	7898.7656	7899.1875
	Vertical Leg	7.8750	56.6250	445.9219	18.0879	26.6250	5582.5137	5600.6016
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	29.6250	7898.7656	7899.1875
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	26.6250	5582.5137	5600.6016
3	Web Plate	22.5000	30.0000	675.0000	6750.0000	0.0000	0.0000	6750.0000
4	Cover Plate Top	0.0000	60.0000	0.0000	0.0000	30.0000	0.0000	0.0000
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	30.0000	0.0000	0.0000
Total		**56.25**		**1687.50**	**6787.02**		**26962.56**	**33749.58**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	12.0000	0.0625	-0.7500	0.0313	-0.0235	-0.0002	29.9687	-673.5922	-673.5924
2	12.0000	0.0625	-0.7500	59.9688	-44.9766	-0.0002	29.9688	-673.5968	-673.5970
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.50**		**-45.00**	**0.00**		**-1347.19**	**-1347.19**

As-Built Section Properties						As-Inspected Section Properties					
y-bar =	30.0000	in	S_{top} =	1124.99	in^3	y-bar =	30.0000	in	S_{top} =	1080.08	in^3
I_x =	33749.58	n^4	$S_{bott.}$ =	1124.99	in^3	I_x =	32402.39	in^4	$S_{bott.}$ =	1080.08	in^3
c_{top} =	30.0000	in	A =	56.2500	in^2	c_{top} =	30.0000	in	A =	54.7500	in^2
c_{bottom} =	30.0000	in	r_x =	24.4947	in	c_{bottom} =	30.0000	in	r_x =	24.3274	in
J =	7.3828		Z =	1290.0938	in^3						

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Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
3	Web Plate	22.5000	6.1875	139.2188	0.2637	0.0000	0.0000	0.2637
4	Top Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
4	Bottom Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**56.25**		**348.05**	**55.00**		**187.87**	**242.87**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0625	12.0000	-0.7500	6.0000	-4.5000	-9.0000	0.1926	-0.0278	-9.0278
2	0.0625	12.0000	-0.7500	6.0000	-4.5000	-9.0000	0.1926	-0.0278	-9.0278
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.50**		**-9.00**	**-18.00**		**-0.06**	**-18.06**

As-Built Section Properties					As-Inspected Section Properties				
x-bar =	6.1875	in	S_{right} =	39.25 in^3	x-bar =	6.1926	in	S_{right} =	36.36 in^3
I_y =	242.87	in^4	S_{left} =	39.25 in^3	I_y =	224.81	in^4	S_{left} =	36.30 in^3
c_{right} =	6.1875	in	A =	56.2500 in^2	c_{right} =	6.1824	in	A =	54.7500 in^2
c_{left} =	6.1875	in	r_y =	2.0779 in	c_{left} =	6.1926	in	r_y =	2.0264 in

Non-composite Capacities*		
	AB	AI
M	3093.71 k-ft	2970.22 k-ft
V	564.26 k	564.26 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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SECTION FOR MOMENT ZONE

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w =$ 6.0000 in
$C_1 = t_f =$ 0.7500 in
$B_1 = l_v =$ 6.0000 in

Bottom Angles:

$B_2 = l_h =$ 6.0000 in
$C_2 = t_f =$ 0.7500 in
$A_2 = l_v =$ 6.0000 in

Web Plate:

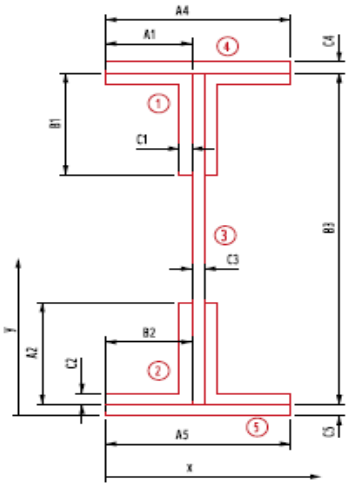
$C_3 =$ 0.3750 in
*$B_3 =$ 60.0000 in
$d_o =$ 65.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

$C_4 =$ 0.0000 in
$A_4 =$ 0.0000 in

Btm Cover Plate:

$C_5 =$ 0.0000 in
$A_5 =$ 0.0000 in



Floorbeam Type 3

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	59.6250	536.6250	0.4219	29.6250	7898.7656	7899.1875
	Vertical Leg	7.8750	56.6250	445.9219	18.0879	26.6250	5582.5137	5600.6016
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	29.6250	7898.7656	7899.1875
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	26.6250	5582.5137	5600.6016
3	Web Plate	22.5000	30.0000	675.0000	6750.0000	0.0000	0.0000	6750.0000
4	Cover Plate Top	0.0000	60.0000	0.0000	0.0000	30.0000	0.0000	0.0000
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	30.0000	0.0000	0.0000
Total		**56.25**		**1687.50**	**6787.02**		**26962.56**	**33749.58**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	12.0000	0.0625	-0.7500	0.0313	-0.0235	-0.0002	29.9687	-673.5922	-673.5924
2	12.0000	0.0625	-0.7500	59.9688	-44.9766	-0.0002	29.9688	-673.5968	-673.5970
3	0.0625	27.2500	-1.7031	30.0000	-51.0938	-105.3897	0.0000	0.0000	-105.3897
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-3.20**		**-96.09**	**-105.39**		**-1347.19**	**-1452.58**

As-Built Section Properties						As-Inspected Section Properties					
y-bar =	30.0000	in	S_{top} =	1124.99	in^3	y-bar =	30.0000	in	S_{top} =	1076.57	in^3
I_x =	33749.58	n^4	$S_{bott.}$ =	1124.99	in^3	I_x =	32297.00	in^4	$S_{bott.}$ =	1076.57	in^3
c_{top} =	30.0000	in	A =	56.2500	in^2	c_{top} =	30.0000	in	A =	53.0469	in^2
c_{bottom} =	30.0000	in	r_x =	24.4947	in	c_{bottom} =	30.0000	in	r_x =	24.6747	in
J =	7.3828		Z =	1290.0938	in^3						

TranSystems

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Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
3	Web Plate	22.5000	6.1875	139.2188	0.2637	0.0000	0.0000	0.2637
4	Top Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
4	Bottom Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**56.25**		**348.05**	**55.00**		**187.87**	**242.87**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0625	12.0000	-0.7500	6.0000	-4.5000	-9.0000	0.1878	-0.0264	-9.0264
2	0.0625	12.0000	-0.7500	6.0000	-4.5000	-9.0000	0.1878	-0.0264	-9.0264
3	27.2500	0.0625	-1.7031	6.3438	-10.8042	-0.0006	0.1560	-0.0414	-0.0420
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-3.20**		**-19.80**	**-18.00**		**-0.09**	**-18.09**

As-Built Section Properties					
x-bar =	6.1875	in	S_{right} =	39.25	in^3
I_y =	242.87	in^4	S_{left} =	39.25	in^3
c_{right} =	6.1875	in	A =	56.2500	in^2
c_{left} =	6.1875	in	r_y =	2.0779	in

As-Inspected Section Properties					
x-bar =	6.1878	in	S_{right} =	36.33	in^3
I_y =	224.77	in^4	S_{left} =	36.33	in^3
c_{right} =	6.1872	in	A =	53.0469	in^2
c_{left} =	6.1878	in	r_y =	2.0585	in

Non-composite Capacities*		
	AB	AI
M	3093.71 k-ft	2960.56 k-ft
V	564.26 k	539.14 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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SECTION FOR SHEAR ZONE

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w$ = 6.0000 in

$C_1 = t_f$ = 0.7500 in

$B_1 = l_v$ = 6.0000 in

Bottom Angles:

$B_2 = l_h$ = 6.0000 in

$C_2 = t_f$ = 0.7500 in

$A_2 = l_v$ = 6.0000 in

Web Plate:

C_3 = 0.3750 in

*B_3 = 60.0000 in

d_o = 65.0000 in

d_o = stiffener spacing for shear check

Use "N/A" for no stiffeners

Top Cover Plate:

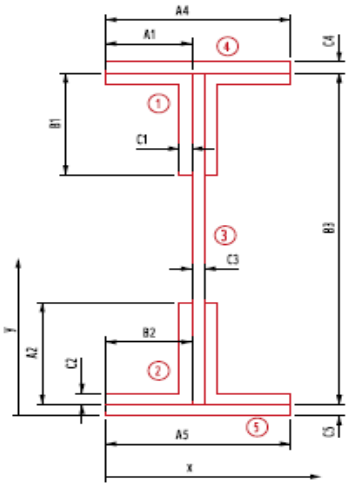
C_4 = 0.0000 in

A_4 = 0.0000 in

Btm Cover Plate:

C_5 = 0.0000 in

A_5 = 0.0000 in



Floorbeam Type 3

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	59.6250	536.6250	0.4219	29.6250	7898.7656	7899.1875
	Vertical Leg	7.8750	56.6250	445.9219	18.0879	26.6250	5582.5137	5600.6016
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	29.6250	7898.7656	7899.1875
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	26.6250	5582.5137	5600.6016
3	Web Plate	22.5000	30.0000	675.0000	6750.0000	0.0000	0.0000	6750.0000
4	Cover Plate Top	0.0000	60.0000	0.0000	0.0000	30.0000	0.0000	0.0000
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	30.0000	0.0000	0.0000
Total		**56.25**		**1687.50**	**6787.02**		**26962.56**	**33749.58**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0625	18.0000	-1.1250	10.5000	-11.8125	-30.3750	19.8980	-445.4199	-475.7949
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.13**		**-11.81**	**-30.38**		**-445.42**	**-475.79**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	30.0000 in	S_{top} =	1124.99 in^3	y-bar =	30.3980 in	S_{top} =	1124.04 in^3
I_x =	33749.58 n^4	$S_{bott.}$ =	1124.99 in^3	I_x =	33273.78 in^4	$S_{bott.}$ =	1094.61 in^3
c_{top} =	30.0000 in	A =	56.2500 in^2	c_{top} =	29.6020 in	A =	55.1250 in^2
c_{bottom} =	30.0000 in	r_x =	24.4947 in	c_{bottom} =	30.3980 in	r_x =	24.5684 in
J =	7.3828	Z =	1290.0938 in^3				

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Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
3	Web Plate	22.5000	6.1875	139.2188	0.2637	0.0000	0.0000	0.2637
4	Top Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
4	Bottom Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**56.25**		**348.05**	**55.00**		**187.87**	**242.87**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	18.0000	0.0625	-1.1250	6.2188	-6.9962	-0.0004	0.0319	-0.0011	-0.0015
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.13**		**-7.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.1875	in	S_{right} =	39.25	in^3
I_y =	242.87	in^4	S_{left} =	39.25	in^3
c_{right} =	6.1875	in	A =	56.2500	in^2
c_{left} =	6.1875	in	r_y =	2.0779	in

As-Inspected Section Properties					
x-bar =	6.1869	in	S_{right} =	39.25	in^3
I_y =	242.87	in^4	S_{left} =	39.26	in^3
c_{right} =	6.1881	in	A =	55.1250	in^2
c_{left} =	6.1869	in	r_y =	2.0990	in

Non-composite Capacities*		
	AB	AI
M	3093.71 k-ft	3010.17 k-ft
V	564.26 k	547.66 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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SECTION FOR MOMENT ZONE

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w =$ 6.0000 in
$C_1 = t_f =$ 0.7500 in
$B_1 = l_v =$ 6.0000 in

Bottom Angles:

$B_2 = l_h =$ 6.0000 in
$C_2 = t_f =$ 0.7500 in
$A_2 = l_v =$ 6.0000 in

Web Plate:

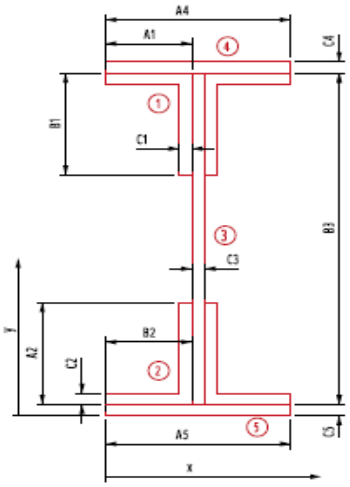
$C_3 =$ 0.3750 in
*$B_3 =$ 60.0000 in
$d_o =$ 65.0000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

$C_4 =$ 0.0000 in
$A_4 =$ 0.0000 in

Btm Cover Plate:

$C_5 =$ 0.0000 in
$A_5 =$ 0.0000 in



Floorbeam Type 3

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	59.6250	536.6250	0.4219	29.6250	7898.7656	7899.1875
	Vertical Leg	7.8750	56.6250	445.9219	18.0879	26.6250	5582.5137	5600.6016
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	29.6250	7898.7656	7899.1875
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	26.6250	5582.5137	5600.6016
3	Web Plate	22.5000	30.0000	675.0000	6750.0000	0.0000	0.0000	6750.0000
4	Cover Plate Top	0.0000	60.0000	0.0000	0.0000	30.0000	0.0000	0.0000
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	30.0000	0.0000	0.0000
Total		**56.25**		**1687.50**	**6787.02**		**26962.56**	**33749.58**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0625	5.2500	-0.3281	3.3750	-1.1074	-0.7537	26.6250	-232.6047	-233.3584
2	0.0625	48.0000	-3.0000	30.0000	-90.0000	-576.0000	0.0000	0.0000	-576.0000
3	0.0625	5.2500	-0.3281	56.6250	-18.5801	-0.7537	26.6250	-232.6047	-233.3584
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-3.66**		**-109.69**	**-577.51**		**-465.21**	**-1042.72**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	30.0000 in	S_{top} =	1124.99 in^3	y-bar =	30.0000 in	S_{top} =	1090.23 in^3
I_x =	33749.58 n^4	$S_{bott.}$ =	1124.99 in^3	I_x =	32706.86 in^4	$S_{bott.}$ =	1090.23 in^3
c_{top} =	30.0000 in	A =	56.2500 in^2	c_{top} =	30.0000 in	A =	52.5938 in^2
c_{bottom} =	30.0000 in	r_x =	24.4947 in	c_{bottom} =	30.0000 in	r_x =	24.9375 in
J =	7.3828	Z =	1290.0938 in^3				

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Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
3	Web Plate	22.5000	6.1875	139.2188	0.2637	0.0000	0.0000	0.2637
4	Top Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
4	Bottom Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**56.25**		**348.05**	**55.00**		**187.87**	**242.87**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	5.2500	0.0625	-0.3281	7.0938	-2.3276	-0.0001	0.9265	-0.2816	-0.2818
2	48.0000	0.0625	-3.0000	6.3438	-19.0313	-0.0010	0.1765	-0.0934	-0.0944
3	5.2500	0.0625	-0.3281	7.0938	-2.3276	-0.0001	0.9265	-0.2816	-0.2818
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-3.66**		**-23.69**	**0.00**		**-0.66**	**-0.66**

As-Built Section Properties					
x-bar =	6.1875	in	S_{right} =	39.25	in^3
I_y =	242.87	in^4	S_{left} =	39.25	in^3
c_{right} =	6.1875	in	A =	56.2500	in^2
c_{left} =	6.1875	in	r_y =	2.0779	in

As-Inspected Section Properties					
x-bar =	6.1673	in	S_{right} =	39.02	in^3
I_y =	242.21	in^4	S_{left} =	39.27	in^3
c_{right} =	6.2077	in	A =	52.5938	in^2
c_{left} =	6.1673	in	r_y =	2.1460	in

Non-composite Capacities*		
	AB	AI
M	3093.71 k-ft	2998.13 k-ft
V	564.26 k	510.32 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

TranSystems

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Checked By KRS Date 3/29/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w$ = 6.0000 in

$C_1 = t_f$ = 0.5000 in

$B_1 = l_v$ = 6.0000 in

Bottom Angles:

$B_2 = l_h$ = 6.0000 in

$C_2 = t_f$ = 0.5000 in

$A_2 = l_v$ = 6.0000 in

Web Plate:

C_3 = 0.3750 in

*B_3 = 60.5000 in

d_o = 30.5000 in

d_o = stiffener spacing for shear check

Use "N/A" for no stiffeners

Top Cover Plate:

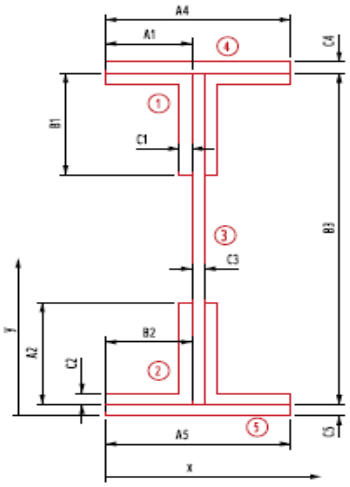
C_4 = 0.0000 in

A_4 = 0.0000 in

Btm Cover Plate:

C_5 = 0.0000 in

A_5 = 0.0000 in



Cantilever Floorbeam Type 1

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	6.0000	60.2500	361.5000	0.1250	30.0000	5400.0000	5400.1250
	Vertical Leg	5.5000	57.2500	314.8750	13.8646	27.0000	4009.5000	4023.3646
2	Horizontal Leg	6.0000	0.2500	1.5000	0.1250	30.0000	5400.0000	5400.1250
	Vertical Leg	5.5000	3.2500	17.8750	13.8646	27.0000	4009.5000	4023.3646
3	Web Plate	22.6875	30.2500	686.2969	6920.1602	0.0000	0.0000	6920.1602
4	Cover Plate Top	0.0000	60.5000	0.0000	0.0000	30.2500	0.0000	0.0000
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	30.2500	0.0000	0.0000
Total		**45.69**		**1382.05**	**6948.14**		**18819.00**	**25767.14**

Section Losses			A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties						As-Inspected Section Properties					
y-bar =	30.2500	in	S_{top} =	851.81	in^3	y-bar =	30.2500	in	S_{top} =	851.81	in^3
I_x =	25767.14	n^4	$S_{bott.}$ =	851.81	in^3	I_x =	25767.14	in^4	$S_{bott.}$ =	851.81	in^3
c_{top} =	30.2500	in	A =	45.6875	in^2	c_{top} =	30.2500	in	A =	45.6875	in^2
c_{bottom} =	30.2500	in	r_x =	23.7484	in	c_{bottom} =	30.2500	in	r_x =	23.7484	in
J =	2.9801		Z =	1000.1484	in^3				Z =	1000.1484	in^3

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Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	3.0000	3.0000	9.0000	9.0000	3.1875	30.4805	39.4805
(Left)	Vertical Leg	2.7500	5.7500	15.8125	0.0573	0.4375	0.5264	0.5837
1	Horizontal Leg	3.0000	9.3750	28.1250	9.0000	3.1875	30.4805	39.4805
(Right)	Vertical Leg	2.7500	6.6250	18.2188	0.0573	0.4375	0.5264	0.5837
2	Horizontal Leg	3.0000	3.0000	9.0000	9.0000	3.1875	30.4805	39.4805
(Left)	Vertical Leg	2.7500	5.7500	15.8125	0.0573	0.4375	0.5264	0.5837
2	Horizontal Leg	3.0000	9.3750	28.1250	9.0000	3.1875	30.4805	39.4805
(Right)	Vertical Leg	2.7500	6.6250	18.2188	0.0573	0.4375	0.5264	0.5837
3	Web Plate	22.6875	6.1875	140.3789	0.2659	0.0000	0.0000	0.2659
4	Top Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
4	Bottom Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**45.69**		**282.69**	**36.50**		**124.03**	**160.52**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.1875	in	S_{right} =	25.94	in^3
I_y =	160.52	in^4	S_{left} =	25.94	in^3
c_{right} =	6.1875	in	A =	45.6875	in^2
c_{left} =	6.1875	in	r_y =	1.8744	in

As-Inspected Section Properties					
x-bar =	6.1875	in	S_{right} =	25.94	in^3
I_y =	160.52	in^4	S_{left} =	25.94	in^3
c_{right} =	6.1875	in	A =	45.6875	in^2
c_{left} =	6.1875	in	r_y =	1.8744	in

Non-composite Capacities*		
	AB	AI
M	2342.47 k-ft	2342.47 k-ft
V	644.78 k	644.78 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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Calculations For: **CUY-2-1441**

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w =$ 6.0000 in
$C_1 = t_f =$ 0.5000 in
$B_1 = l_v =$ 6.0000 in

Bottom Angles:

$B_2 = l_h =$ 6.0000 in
$C_2 = t_f =$ 0.5000 in
$A_2 = l_v =$ 6.0000 in

Web Plate:

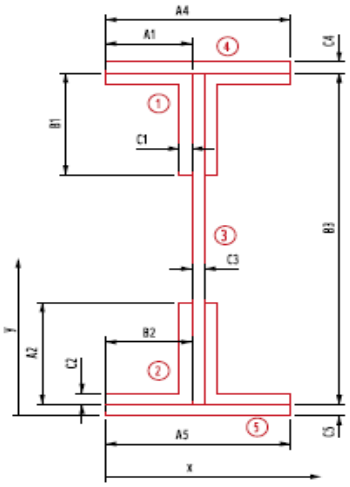
$C_3 =$ 0.3750 in
*$B_3 =$ 60.6250 in
$d_o =$ 30.5000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

$C_4 =$ 0.0000 in
$A_4 =$ 0.0000 in

Btm Cover Plate:

$C_5 =$ 0.0000 in
$A_5 =$ 0.0000 in



Cantilever Floorbeam Type 2A

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	6.0000	60.3750	362.2500	0.1250	30.0625	5422.5234	5422.6484
	Vertical Leg	5.5000	57.3750	315.5625	13.8646	27.0625	4028.0840	4041.9486
2	Horizontal Leg	6.0000	0.2500	1.5000	0.1250	30.0625	5422.5234	5422.6484
	Vertical Leg	5.5000	3.2500	17.8750	13.8646	27.0625	4028.0840	4041.9486
3	Web Plate	22.7344	30.3125	689.1357	6963.1424	0.0000	0.0000	6963.1424
4	Cover Plate Top	0.0000	60.6250	0.0000	0.0000	30.3125	0.0000	0.0000
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	30.3125	0.0000	0.0000
Total		**45.73**		**1386.32**	**6991.12**		**18901.21**	**25892.34**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	30.3125 in	S_{top} =	854.18 in^3	y-bar =	30.3125 in	S_{top} =	854.18 in^3
I_x =	25892.34 n^4	$S_{bott.}$ =	854.18 in^3	I_x =	25892.34 in^4	$S_{bott.}$ =	854.18 in^3
c_{top} =	30.3125 in	A =	45.7344 in^2	c_{top} =	30.3125 in	A =	45.7344 in^2
c_{bottom} =	30.3125 in	r_x =	23.7938 in	c_{bottom} =	30.3125 in	r_x =	23.7938 in
J =	2.9823	Z =	1003.0054 in^3			Z =	1003.0054 in^3

TranSystems

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Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A	x	Ax	I_o	d	Ad^2	$I_{y,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	3.0000	3.0000	9.0000	9.0000	3.1875	30.4805	39.4805
(Left)	Vertical Leg	2.7500	5.7500	15.8125	0.0573	0.4375	0.5264	0.5837
1	Horizontal Leg	3.0000	9.3750	28.1250	9.0000	3.1875	30.4805	39.4805
(Right)	Vertical Leg	2.7500	6.6250	18.2188	0.0573	0.4375	0.5264	0.5837
2	Horizontal Leg	3.0000	3.0000	9.0000	9.0000	3.1875	30.4805	39.4805
(Left)	Vertical Leg	2.7500	5.7500	15.8125	0.0573	0.4375	0.5264	0.5837
2	Horizontal Leg	3.0000	9.3750	28.1250	9.0000	3.1875	30.4805	39.4805
(Right)	Vertical Leg	2.7500	6.6250	18.2188	0.0573	0.4375	0.5264	0.5837
3	Web Plate	22.7344	6.1875	140.6689	0.2664	0.0000	0.0000	0.2664
4	Top Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
4	Bottom Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**45.73**		**282.98**	**36.50**		**124.03**	**160.52**

Section Losses			A	x	Ax	I_o	d	Ad^2	$I_{y,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.1875	in	S_{right} =	25.94	in^3
I_y =	160.52	in^4	S_{left} =	25.94	in^3
c_{right} =	6.1875	in	A =	45.7344	in^2
c_{left} =	6.1875	in	r_y =	1.8735	in

As-Inspected Section Properties					
x-bar =	6.1875	in	S_{right} =	25.94	in^3
I_y =	160.52	in^4	S_{left} =	25.94	in^3
c_{right} =	6.1875	in	A =	45.7344	in^2
c_{left} =	6.1875	in	r_y =	1.8735	in

Non-composite Capacities*		
	AB	AI
M	2349.00 k-ft	2349.00 k-ft
V	645.68 k	645.68 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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Calculations For: **CUY-2-1441**

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w =$ 6.0000 in
$C_1 = t_f =$ 0.6250 in
$B_1 = l_v =$ 6.0000 in

Bottom Angles:

$B_2 = l_h =$ 6.0000 in
$C_2 = t_f =$ 0.6250 in
$A_2 = l_v =$ 6.0000 in

Web Plate:

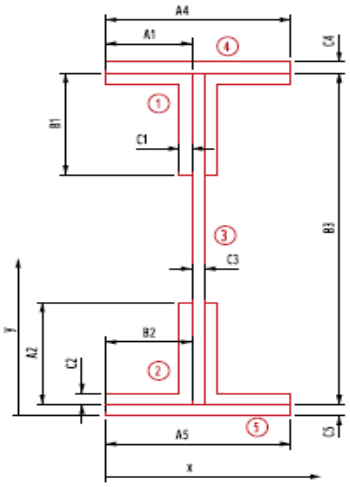
$C_3 =$ 0.3750 in
*$B_3 =$ 60.5000 in
$d_o =$ 30.5000 in
d_o = stiffener spacing for shear check
Use "N/A" for no stiffeners

Top Cover Plate:

$C_4 =$ 0.0000 in
$A_4 =$ 0.0000 in

Btm Cover Plate:

$C_5 =$ 0.0000 in
$A_5 =$ 0.0000 in



Cantilever Floorbeam Type 3

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	7.5000	60.1875	451.4063	0.2441	29.9375	6721.9043	6722.1484
	Vertical Leg	6.7188	57.1875	384.2285	16.1757	26.9375	4875.3192	4891.4950
2	Horizontal Leg	7.5000	0.3125	2.3438	0.2441	29.9375	6721.9043	6722.1484
	Vertical Leg	6.7188	3.3125	22.2559	16.1757	26.9375	4875.3192	4891.4950
3	Web Plate	22.6875	30.2500	686.2969	6920.1602	0.0000	0.0000	6920.1602
4	Cover Plate Top	0.0000	60.5000	0.0000	0.0000	30.2500	0.0000	0.0000
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	30.2500	0.0000	0.0000
Total		**51.13**		**1546.53**	**6953.00**		**23194.45**	**30147.45**

Section Losses			A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties						As-Inspected Section Properties					
y-bar =	30.2500	in	S_{top} =	996.61	in^3	y-bar =	30.2500	in	S_{top} =	996.61	in^3
I_x =	30147.45	n^4	$S_{bott.}$ =	996.61	in^3	I_x =	30147.45	in^4	$S_{bott.}$ =	996.61	in^3
c_{top} =	30.2500	in	A =	51.1250	in^2	c_{top} =	30.2500	in	A =	51.1250	in^2
c_{bottom} =	30.2500	in	r_x =	24.2834	in	c_{bottom} =	30.2500	in	r_x =	24.2834	in
J =	4.7663		Z =	1154.1836	in^3				Z =	1154.1836	in^3

TranSystems

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Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	3.7500	3.0000	11.2500	11.2500	3.1875	38.1006	49.3506
(Left)	Vertical Leg	3.3594	5.6875	19.1064	0.1094	0.5000	0.8398	0.9492
1	Horizontal Leg	3.7500	9.3750	35.1563	11.2500	3.1875	38.1006	49.3506
(Right)	Vertical Leg	3.3594	6.6875	22.4658	0.1094	0.5000	0.8398	0.9492
2	Horizontal Leg	3.7500	3.0000	11.2500	11.2500	3.1875	38.1006	49.3506
(Left)	Vertical Leg	3.3594	5.6875	19.1064	0.1094	0.5000	0.8398	0.9492
2	Horizontal Leg	3.7500	9.3750	35.1563	11.2500	3.1875	38.1006	49.3506
(Right)	Vertical Leg	3.3594	6.6875	22.4658	0.1094	0.5000	0.8398	0.9492
3	Web Plate	22.6875	6.1875	140.3789	0.2659	0.0000	0.0000	0.2659
4	Top Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
4	Bottom Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**51.13**		**316.34**	**45.70**		**155.76**	**201.47**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.1875	in	S_{right} =	32.56	in^3
I_y =	201.47	in^4	S_{left} =	32.56	in^3
c_{right} =	6.1875	in	A =	51.1250	in^2
c_{left} =	6.1875	in	r_y =	1.9851	in

As-Inspected Section Properties					
x-bar =	6.1875	in	S_{right} =	32.56	in^3
I_y =	201.47	in^4	S_{left} =	32.56	in^3
c_{right} =	6.1875	in	A =	51.1250	in^2
c_{left} =	6.1875	in	r_y =	1.9851	in

Non-composite Capacities*		
	AB	AI
M	2740.68 k-ft	2740.68 k-ft
V	691.43 k	691.43 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

Tran Systems

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Calculations For: ***CUY-2-1441***

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w$ = 6.0000 in

$C_1 = t_f$ = 0.7500 in

$B_1 = l_v$ = 6.0000 in

Bottom Angles:

$B_2 = l_h$ = 6.0000 in

$C_2 = t_f$ = 0.7500 in

$A_2 = l_v$ = 6.0000 in

Web Plate:

C_3 = 0.3750 in

*B_3 = 60.5000 in

d_o = 30.5000 in

d_o = stiffener spacing for shear check

Use "N/A" for no stiffeners

Top Cover Plate:

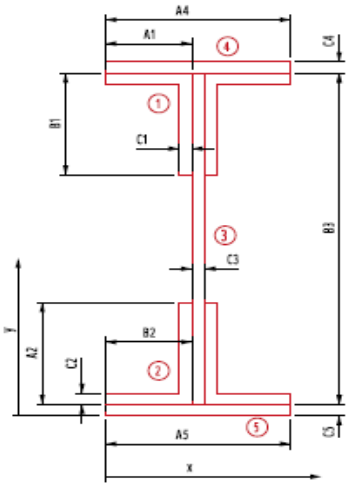
C_4 = 0.0000 in

A_4 = 0.0000 in

Btm Cover Plate:

C_5 = 0.0000 in

A_5 = 0.0000 in



Cantilever Floorbeam Type 4

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	9.0000	60.1250	541.1250	0.4219	29.8750	8032.6406	8033.0625
	Vertical Leg	7.8750	57.1250	449.8594	18.0879	26.8750	5687.8418	5705.9297
2	Horizontal Leg	9.0000	0.3750	3.3750	0.4219	29.8750	8032.6406	8033.0625
	Vertical Leg	7.8750	3.3750	26.5781	18.0879	26.8750	5687.8418	5705.9297
3	Web Plate	22.6875	30.2500	686.2969	6920.1602	0.0000	0.0000	6920.1602
4	Cover Plate Top	0.0000	60.5000	0.0000	0.0000	30.2500	0.0000	0.0000
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	30.2500	0.0000	0.0000
Total		**56.44**		**1707.23**	**6957.18**		**27440.96**	**34398.14**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	30.2500 in	S_{top} =	1137.13 in^3	y-bar =	30.2500 in	S_{top} =	1137.13 in^3
I_x =	34398.14 n^4	$S_{bott.}$ =	1137.13 in^3	I_x =	34398.14 in^4	$S_{bott.}$ =	1137.13 in^3
c_{top} =	30.2500 in	A =	56.4375 in^2	c_{top} =	30.2500 in	A =	56.4375 in^2
c_{bottom} =	30.2500 in	r_x =	24.6879 in	c_{bottom} =	30.2500 in	r_x =	24.6879 in
J =	7.3916	Z =	1304.1797 in^3			Z =	1304.1797 in^3

TranSystems

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Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A	x	Ax	I_o	d	Ad^2	$I_{y,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
1	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	3.0000	13.5000	13.5000	3.1875	45.7207	59.2207
(Left)	Vertical Leg	3.9375	5.6250	22.1484	0.1846	0.5625	1.2458	1.4304
2	Horizontal Leg	4.5000	9.3750	42.1875	13.5000	3.1875	45.7207	59.2207
(Right)	Vertical Leg	3.9375	6.7500	26.5781	0.1846	0.5625	1.2458	1.4304
3	Web Plate	22.6875	6.1875	140.3789	0.2659	0.0000	0.0000	0.2659
4	Top Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
4	Bottom Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**56.44**		**349.21**	**55.00**		**187.87**	**242.87**

Section Losses			A	x	Ax	I_o	d	Ad^2	$I_{y,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.1875	in	S_{right} =	39.25	in^3
I_y =	242.87	in^4	S_{left} =	39.25	in^3
c_{right} =	6.1875	in	A =	56.4375	in^2
c_{left} =	6.1875	in	r_y =	2.0745	in

As-Inspected Section Properties					
x-bar =	6.1875	in	S_{right} =	39.25	in^3
I_y =	242.87	in^4	S_{left} =	39.25	in^3
c_{right} =	6.1875	in	A =	56.4375	in^2
c_{left} =	6.1875	in	r_y =	2.0745	in

Non-composite Capacities*		
	AB	AI
M	3127.10 k-ft	3127.10 k-ft
V	735.69 k	735.69 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

TranSystems

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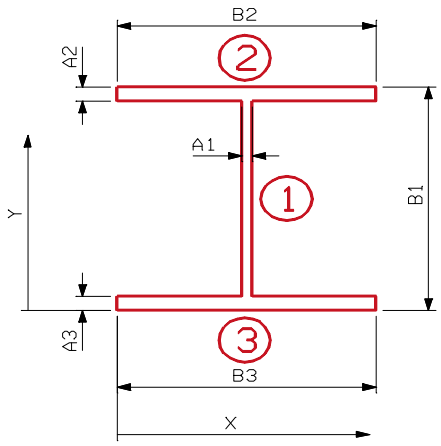
Calculations For: ***CUY-2-1441***

Element Dimensions (without Section Losses):

$A_1 = t_w =$ 0.3750 in
$B_1 = d =$ 60.5000 in
$A_2 = t_f =$ 0.7500 in
$B_2 = b_f =$ 12.0000 in
$A_3 = t_f =$ 0.7500 in
$B_3 = b_f =$ 12.0000 in

$d_o =$ 30.5000 in

d_o = stiffener spacing for shear check for no stiffners use "N/A"



Cantilever Floorbeam Type 10

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Web	22.1250	30.2500	669.2813	6418.0938	0.0000	0.0000	6418.0938
2	Top Flange	9.0000	60.1250	541.1250	0.4219	29.8750	8032.641	8033.063
3	Bottom Flange	9.0000	0.3750	3.3750	0.4219	29.8750	8032.641	8033.063
Total		**40.13**		**1213.78**	**6418.94**		**16065.28**	**22484.22**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties						As-Inspected Section Properties					
y-bar =	30.2500	in	S_{top} =	743.28	in^3	y-bar =	30.2500	in	S_{top} =	743.28	in^3
I_x =	22484.22	in^4	$S_{bott.}$ =	743.28	in^3	I_x =	22484.22	in^4	$S_{bott.}$ =	743.28	in^3
c_{top} =	30.2500	in	A =	40.1250	in^2	c_{top} =	30.2500	in	A =	40.1250	in^2
c_{bottom} =	30.2500	in	r_x =	23.6718	in	c_{bottom} =	30.2500	in	r_x =	23.6718	in
J =	4.4121	in^4	Z =	864.09	in^3				Z =	864.09	in^3

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Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Web	22.1250	6.0000	132.7500	0.2593	0.0000	0.0000	0.2593
2	Top Flange	9.0000	6.0000	54.0000	108.0000	0.0000	0.0000	108.0000
3	Bottom Flange	9.0000	6.0000	54.0000	108.0000	0.0000	0.0000	108.0000
Total		**40.13**		**240.75**	**216.26**		**0.00**	**216.26**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.0000	in	S_{right} =	36.04	in^3
I_y =	216.26	n^4	S_{left} =	36.04	in^3
c_{right} =	6.0000	in	A =	40.1250	in^2
c_{left} =	6.0000	in	r_y =	2.3216	in

As-Inspected Section Properties					
x-bar =	6.0000	in	S_{right} =	36.04	in^3
I_y =	216.26	n^4	S_{left} =	36.04	in^3
c_{right} =	6.0000	in	A =	40.1250	in^2
c_{left} =	6.0000	in	r_y =	2.3216	in

Non-composite Capacities*		
	AB	AI
M	2229.8 k-ft	2229.8 k-ft
V	452.13 k	452.13 k

*Noncompact Section

F_y =	36.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

TranSystems

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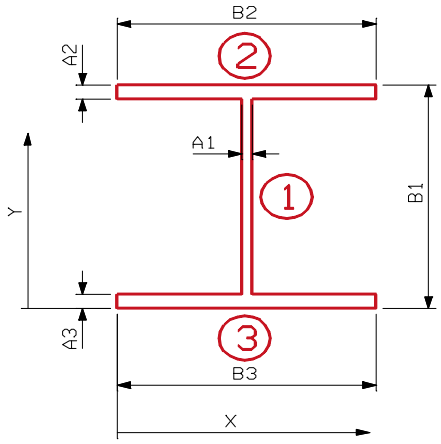
Calculations For: ***CUY-2-1441***

Element Dimensions (without Section Losses):

$A_1 = t_w =$ 0.3750 in
$B_1 = d =$ 60.5000 in
$A_2 = t_f =$ 0.7500 in
$B_2 = b_f =$ 13.0000 in
$A_3 = t_f =$ 0.7500 in
$B_3 = b_f =$ 13.0000 in

$d_o =$ 30.5000 in

d_o = stiffener spacing for shear check for no stiffners use "N/A"



Cantilever Floorbeam Type 11A

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Web	22.1250	30.2500	669.2813	6418.0938	0.0000	0.0000	6418.0938
2	Top Flange	9.7500	60.1250	586.2188	0.4570	29.8750	8702.027	8702.484
3	Bottom Flange	9.7500	0.3750	3.6563	0.4570	29.8750	8702.027	8702.484
Total		**41.63**		**1259.16**	**6419.01**		**17404.05**	**23823.06**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	30.2500 in	S_{top} =	787.54 in^3	y-bar =	30.2500 in	S_{top} =	787.54 in^3
I_x =	23823.06 in^4	$S_{bott.}$ =	787.54 in^3	I_x =	23823.06 in^4	$S_{bott.}$ =	787.54 in^3
c_{top} =	30.2500 in	A =	41.6250 in^2	c_{top} =	30.2500 in	A =	41.6250 in^2
c_{bottom} =	30.2500 in	r_x =	23.9233 in	c_{bottom} =	30.2500 in	r_x =	23.9233 in
J =	4.6934 in^4	Z =	908.91 in^3			Z =	908.91 in^3

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Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Web	22.1250	6.5000	143.8125	0.2593	0.0000	0.0000	0.2593
2	Top Flange	9.7500	6.5000	63.3750	137.3125	0.0000	0.0000	137.3125
3	Bottom Flange	9.7500	6.5000	63.3750	137.3125	0.0000	0.0000	137.3125
Total		**41.63**		**270.56**	**274.88**		**0.00**	**274.88**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.5000	in	S_{right} =	42.29	in^3
I_y =	274.88	n^4	S_{left} =	42.29	in^3
c_{right} =	6.5000	in	A =	41.6250	in^2
c_{left} =	6.5000	in	r_y =	2.5698	in

As-Inspected Section Properties					
x-bar =	6.5000	in	S_{right} =	42.29	in^3
I_y =	274.88	n^4	S_{left} =	42.29	in^3
c_{right} =	6.5000	in	A =	41.6250	in^2
c_{left} =	6.5000	in	r_y =	2.5698	in

Non-composite Capacities*		
	AB	AI
M	2362.6 k-ft	2362.6 k-ft
V	452.13 k	452.13 k

*Noncompact Section

F_y =	36.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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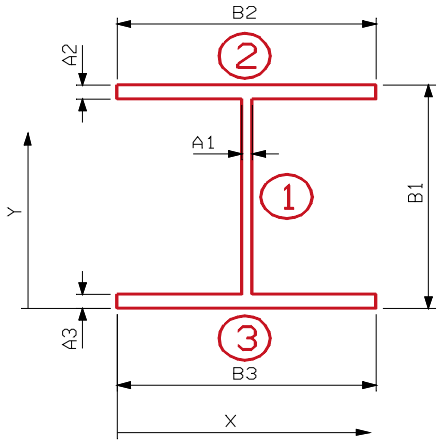
Calculations For: ***CUY-2-1441***

Element Dimensions (without Section Losses):

$A_1 = t_w =$ 0.3750 in
$B_1 = d =$ 60.5000 in
$A_2 = t_f =$ 1.2500 in
$B_2 = b_f =$ 13.0000 in
$A_3 = t_f =$ 1.2500 in
$B_3 = b_f =$ 13.0000 in

$d_o =$ 30.5000 in

d_o = stiffener spacing for shear check for no stiffners use "N/A"



Cantilever Floorbeam Type 11B

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Web	21.7500	30.2500	657.9375	6097.2500	0.0000	0.0000	6097.2500
2	Top Flange	16.2500	59.8750	972.9688	2.1159	29.6250	14261.660	14263.776
3	Bottom Flange	16.2500	0.6250	10.1563	2.1159	29.6250	14261.660	14263.776
Total		**54.25**		**1641.06**	**6101.48**		**28523.32**	**34624.80**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	30.2500 in	S_{top} =	1144.62 in^3	y-bar =	30.2500 in	S_{top} =	1144.62 in^3
I_x =	34624.80 in^4	$S_{bott.}$ =	1144.62 in^3	I_x =	34624.80 in^4	$S_{bott.}$ =	1144.62 in^3
c_{top} =	30.2500 in	A =	54.2500 in^2	c_{top} =	30.2500 in	A =	54.2500 in^2
c_{bottom} =	30.2500 in	r_x =	25.2635 in	c_{bottom} =	30.2500 in	r_x =	25.2635 in
J =	17.9466 in^4	Z =	1278.19 in^3			Z =	1278.19 in^3

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Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Web	21.7500	6.5000	141.3750	0.2549	0.0000	0.0000	0.2549
2	Top Flange	16.2500	6.5000	105.6250	228.8542	0.0000	0.0000	228.8542
3	Bottom Flange	16.2500	6.5000	105.6250	228.8542	0.0000	0.0000	228.8542
Total		**54.25**		**352.63**	**457.96**		**0.00**	**457.96**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.5000	in	S_{right} =	70.46	in^3
I_y =	457.96	n^4	S_{left} =	70.46	in^3
c_{right} =	6.5000	in	A =	54.2500	in^2
c_{left} =	6.5000	in	r_y =	2.9055	in

As-Inspected Section Properties					
x-bar =	6.5000	in	S_{right} =	70.46	in^3
I_y =	457.96	n^4	S_{left} =	70.46	in^3
c_{right} =	6.5000	in	A =	54.2500	in^2
c_{left} =	6.5000	in	r_y =	2.9055	in

Non-composite Capacities*		
	AB	AI
M	3433.9 k-ft	3433.9 k-ft
V	446.09 k	446.09 k

*Noncompact Section

F_y =	36.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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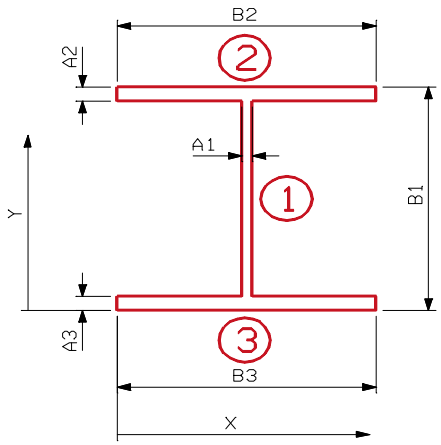
Calculations For: ***CUY-2-1441***

Element Dimensions (without Section Losses):

$A_1 = t_w =$ 0.3750 in
$B_1 = d =$ 65.8750 in
$A_2 = t_f =$ 0.7500 in
$B_2 = b_f =$ 12.5000 in
$A_3 = t_f =$ 0.7500 in
$B_3 = b_f =$ 12.5000 in

$d_o =$ 30.5000 in

d_o = stiffener spacing for shear check for no stiffners use "N/A"



Cantilever Floorbeam Type 12

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Web	24.1406	32.9375	795.1318	8336.8454	0.0000	0.0000	8336.8454
2	Top Flange	9.3750	65.5000	614.0625	0.4395	32.5625	9940.466	9940.906
3	Bottom Flange	9.3750	0.3750	3.5156	0.4395	32.5625	9940.466	9940.906
Total		**42.89**		**1412.71**	**8337.72**		**19880.93**	**28218.66**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties						As-Inspected Section Properties					
y-bar =	32.9375	in	S_{top} =	856.73	in^3	y-bar =	32.9375	in	S_{top} =	856.73	in^3
I_x =	28218.66	in^4	$S_{bott.}$ =	856.73	in^3	I_x =	28218.66	in^4	$S_{bott.}$ =	856.73	in^3
c_{top} =	32.9375	in	A =	42.8906	in^2	c_{top} =	32.9375	in	A =	42.8906	in^2
c_{bottom} =	32.9375	in	r_x =	25.6500	in	c_{bottom} =	32.9375	in	r_x =	25.6500	in
J =	4.6472	in^4	Z =	999.06	in^3				Z =	999.06	in^3

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Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Web	24.1406	6.2500	150.8789	0.2829	0.0000	0.0000	0.2829
2	Top Flange	9.3750	6.2500	58.5938	122.0703	0.0000	0.0000	122.0703
3	Bottom Flange	9.3750	6.2500	58.5938	122.0703	0.0000	0.0000	122.0703
Total		**42.89**		**268.07**	**244.42**		**0.00**	**244.42**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.2500	in	S_{right} =	39.11	in^3
I_y =	244.42	n^4	S_{left} =	39.11	in^3
c_{right} =	6.2500	in	A =	42.8906	in^2
c_{left} =	6.2500	in	r_y =	2.3872	in

As-Inspected Section Properties					
x-bar =	6.2500	in	S_{right} =	39.11	in^3
I_y =	244.42	n^4	S_{left} =	39.11	in^3
c_{right} =	6.2500	in	A =	42.8906	in^2
c_{left} =	6.2500	in	r_y =	2.3872	in

Non-composite Capacities*		
	AB	AI
M	2570.2 k-ft	2570.2 k-ft
V	484.92 k	484.92 k

*Noncompact Section

F_y =	36.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

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Calculations For: ***CUY-2-1441***

Element Dimensions (without Section Losses):

$A_1 = t_w =$ 0.3750 in

$B_1 = d =$ 65.8750 in

$A_2 = t_f =$ 0.7500 in

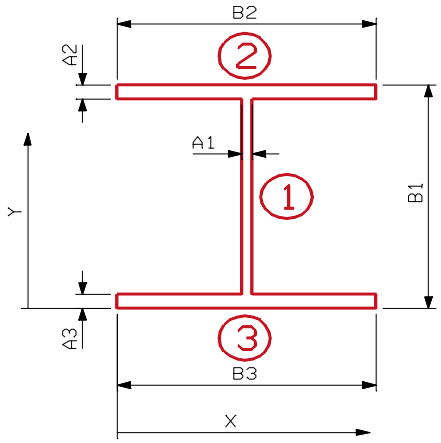
$B_2 = b_f =$ 13.0000 in

$A_3 = t_f =$ 0.7500 in

$B_3 = b_f =$ 13.0000 in

$d_o =$ 30.5000 in

d_o = stiffener spacing for shear check for no stiffners use "N/A"



Cantilever Floorbeam Type 13

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Web	24.1406	32.9375	795.1318	8336.8454	0.0000	0.0000	8336.8454
2	Top Flange	9.7500	65.5000	638.6250	0.4570	32.5625	10338.085	10338.542
3	Bottom Flange	9.7500	0.3750	3.6563	0.4570	32.5625	10338.085	10338.542
Total		**43.64**		**1437.41**	**8337.76**		**20676.17**	**29013.93**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	32.9375 in	S_{top} =	880.88 in^3	y-bar =	32.9375 in	S_{top} =	880.88 in^3
I_x =	29013.93 in^4	$S_{bott.}$ =	880.88 in^3	I_x =	29013.93 in^4	$S_{bott.}$ =	880.88 in^3
c_{top} =	32.9375 in	A =	43.6406 in^2	c_{top} =	32.9375 in	A =	43.6406 in^2
c_{bottom} =	32.9375 in	r_x =	25.7844 in	c_{bottom} =	32.9375 in	r_x =	25.7844 in
J =	4.7878 in^4	Z =	1023.48 in^3			Z =	1023.48 in^3

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Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Web	24.1406	6.5000	156.9141	0.2829	0.0000	0.0000	0.2829
2	Top Flange	9.7500	6.5000	63.3750	137.3125	0.0000	0.0000	137.3125
3	Bottom Flange	9.7500	6.5000	63.3750	137.3125	0.0000	0.0000	137.3125
Total		**43.64**		**283.66**	**274.91**		**0.00**	**274.91**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.5000	in	S_{right} =	42.29	in^3
I_y =	274.91	n^4	S_{left} =	42.29	in^3
c_{right} =	6.5000	in	A =	43.6406	in^2
c_{left} =	6.5000	in	r_y =	2.5099	in

As-Inspected Section Properties					
x-bar =	6.5000	in	S_{right} =	42.29	in^3
I_y =	274.91	n^4	S_{left} =	42.29	in^3
c_{right} =	6.5000	in	A =	43.6406	in^2
c_{left} =	6.5000	in	r_y =	2.5099	in

Non-composite Capacities*		
	AB	AI
M	2642.6 k-ft	2642.6 k-ft
V	484.92 k	484.92 k

*Noncompact Section

F_y =	36.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

TranSystems

Made By KRS Date 3/23/2012 Job No. P402110046
Checked By SFH Date 3/29/2012 Sheet No.

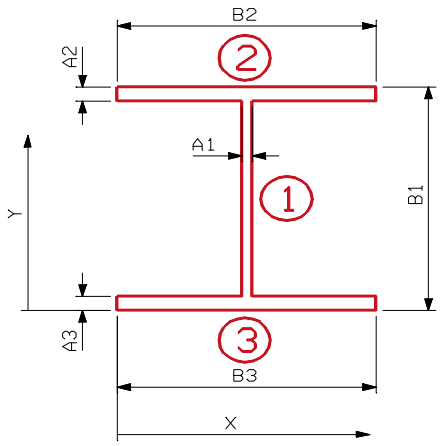
Calculations For: ***CUY-2-1441***

Element Dimensions (without Section Losses):

$A_1 = t_w =$ 0.3750 in
$B_1 = d =$ 60.5625 in
$A_2 = t_f =$ 0.7500 in
$B_2 = b_f =$ 13.0000 in
$A_3 = t_f =$ 0.7500 in
$B_3 = b_f =$ 13.0000 in

$d_o =$ 30.5000 in

d_o = stiffener spacing for shear check for no stiffners use "N/A"



Cantilever Floorbeam Type 14B

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Web	22.1484	30.2813	670.6824	6438.5118	0.0000	0.0000	6438.5118
2	Top Flange	9.7500	60.1875	586.8281	0.4570	29.9063	8720.242	8720.699
3	Bottom Flange	9.7500	0.3750	3.6563	0.4570	29.9063	8720.242	8720.699
Total		**41.65**		**1261.17**	**6439.43**		**17440.48**	**23879.91**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	30.2813 in	S_{top} =	788.60 in^3	y-bar =	30.2813 in	S_{top} =	788.60 in^3
I_x =	23879.91 in^4	$S_{bott.}$ =	788.60 in^3	I_x =	23879.91 in^4	$S_{bott.}$ =	788.60 in^3
c_{top} =	30.2813 in	A =	41.6484 in^2	c_{top} =	30.2813 in	A =	41.6484 in^2
c_{bottom} =	30.2813 in	r_x =	23.9451 in	c_{bottom} =	30.2813 in	r_x =	23.9451 in
J =	4.6945 in^4	Z =	910.21 in^3			Z =	910.21 in^3

TranSystems

Made By KRS Date 3/23/2012 Job No. P402110046
Checked By SFH Date 3/29/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Web	22.1484	6.5000	143.9648	0.2596	0.0000	0.0000	0.2596
2	Top Flange	9.7500	6.5000	63.3750	137.3125	0.0000	0.0000	137.3125
3	Bottom Flange	9.7500	6.5000	63.3750	137.3125	0.0000	0.0000	137.3125
Total		**41.65**		**270.71**	**274.88**		**0.00**	**274.88**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.5000	in	S_{right} =	42.29	in^3
I_y =	274.88	n^4	S_{left} =	42.29	in^3
c_{right} =	6.5000	in	A =	41.6484	in^2
c_{left} =	6.5000	in	r_y =	2.5691	in

As-Inspected Section Properties					
x-bar =	6.5000	in	S_{right} =	42.29	in^3
I_y =	274.88	n^4	S_{left} =	42.29	in^3
c_{right} =	6.5000	in	A =	41.6484	in^2
c_{left} =	6.5000	in	r_y =	2.5691	in

Non-composite Capacities*		
	AB	AI
M	2365.8 k-ft	2365.8 k-ft
V	452.50 k	452.50 k

*Noncompact Section

F_y =	36.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

TranSystems

Made By KRS Date 3/23/2012 Job No. P402110046
Checked By SFH Date 4/3/2012 Sheet No.

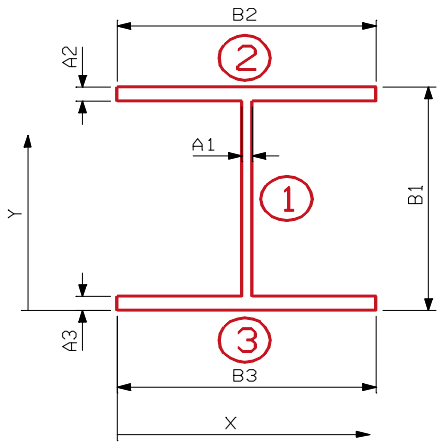
Calculations For: ***CUY-2-1441***

Element Dimensions (without Section Losses):

$A_1 = t_w =$ 0.3750 in
$B_1 = d =$ 66.5000 in
$A_2 = t_f =$ 1.2500 in
$B_2 = b_f =$ 13.0000 in
$A_3 = t_f =$ 1.2500 in
$B_3 = b_f =$ 13.0000 in

$d_o =$ 30.5000 in

d_o = stiffener spacing for shear check for no stiffners use "N/A"



Cantilever Floorbeam Type 16A

X-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,gross}$ (in^4)
Element	Description							
1	Web	24.0000	33.2500	798.0000	8192.0000	0.0000	0.0000	8192.0000
2	Top Flange	16.2500	65.8750	1070.4688	2.1159	32.6250	17296.348	17298.464
3	Bottom Flange	16.2500	0.6250	10.1563	2.1159	32.6250	17296.348	17298.464
Total		**56.50**		**1878.63**	**8196.23**		**34592.70**	**42788.93**

Section Losses			A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
y-bar =	33.2500	in	S_{top} =	1286.89	in^3
I_x =	42788.93	in^4	$S_{bott.}$ =	1286.89	in^3
c_{top} =	33.2500	in	A =	56.5000	in^2
c_{bottom} =	33.2500	in	r_x =	27.5196	in
J =	18.0521	in^4	Z =	1444.31	in^3

As-Inspected Section Properties					
y-bar =	33.2500	in	S_{top} =	1286.89	in^3
I_x =	42788.93	in^4	$S_{bott.}$ =	1286.89	in^3
c_{top} =	33.2500	in	A =	56.5000	in^2
c_{bottom} =	33.2500	in	r_x =	27.5196	in
			Z =	1444.31	in^3

TranSystems

Made By KRS Date 3/23/2012 Job No. P402110046
Checked By SFH Date 4/3/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Web	24.0000	6.5000	156.0000	0.2813	0.0000	0.0000	0.2813
2	Top Flange	16.2500	6.5000	105.6250	228.8542	0.0000	0.0000	228.8542
3	Bottom Flange	16.2500	6.5000	105.6250	228.8542	0.0000	0.0000	228.8542
Total		**56.50**		**367.25**	**457.99**		**0.00**	**457.99**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.5000	in	S_{right} =	70.46	in^3
I_y =	457.99	n^4	S_{left} =	70.46	in^3
c_{right} =	6.5000	in	A =	56.5000	in^2
c_{left} =	6.5000	in	r_y =	2.8471	in

As-Inspected Section Properties					
x-bar =	6.5000	in	S_{right} =	70.46	in^3
I_y =	457.99	n^4	S_{left} =	70.46	in^3
c_{right} =	6.5000	in	A =	56.5000	in^2
c_{left} =	6.5000	in	r_y =	2.8471	in

Non-composite Capacities*		
	AB	AI
M	3860.7 k-ft	3860.7 k-ft
V	482.61 k	482.61 k

*Noncompact Section

F_y =	36.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

TranSystems

Made By KRS Date 3/23/2012 Job No. P402110046
Checked By SFH Date 4/3/2012 Sheet No.

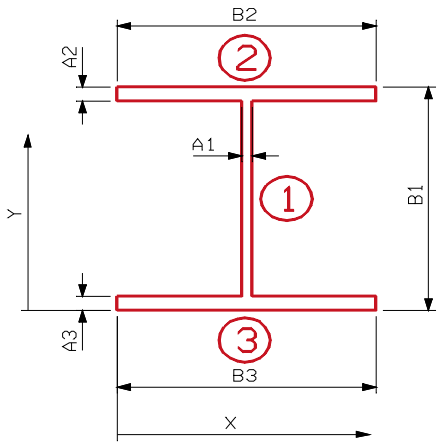
Calculations For: ***CUY-2-1441***

Element Dimensions (without Section Losses):

$A_1 = t_w =$ 0.3750 in
$B_1 = d =$ 66.6250 in
$A_2 = t_f =$ 1.2500 in
$B_2 = b_f =$ 13.0000 in
$A_3 = t_f =$ 1.2500 in
$B_3 = b_f =$ 13.0000 in

$d_o =$ 30.5000 in

d_o = stiffener spacing for shear check for no stiffners use "N/A"



Cantilever Floorbeam Type 16B

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Web	24.0469	33.3125	801.0615	8240.0938	0.0000	0.0000	8240.0938
2	Top Flange	16.2500	66.0000	1072.5000	2.1159	32.6875	17362.681	17364.797
3	Bottom Flange	16.2500	0.6250	10.1563	2.1159	32.6875	17362.681	17364.797
Total		**56.55**		**1883.72**	**8244.33**		**34725.36**	**42969.69**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	33.3125 in	S_{top} =	1289.90 in^3	y-bar =	33.3125 in	S_{top} =	1289.90 in^3
I_x =	42969.69 in^4	$S_{bott.}$ =	1289.90 in^3	I_x =	42969.69 in^4	$S_{bott.}$ =	1289.90 in^3
c_{top} =	33.3125 in	A =	56.5469 in^2	c_{top} =	33.3125 in	A =	56.5469 in^2
c_{bottom} =	33.3125 in	r_x =	27.5662 in	c_{bottom} =	33.3125 in	r_x =	27.5662 in
J =	18.0543 in^4	Z =	1447.85 in^3			Z =	1447.85 in^3

TranSystems

Made By KRS Date 3/23/2012 Job No. P402110046
Checked By SFH Date 4/3/2012 Sheet No.

Calculations For: ***CUY-2-1441***

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Web	24.0469	6.5000	156.3047	0.2818	0.0000	0.0000	0.2818
2	Top Flange	16.2500	6.5000	105.6250	228.8542	0.0000	0.0000	228.8542
3	Bottom Flange	16.2500	6.5000	105.6250	228.8542	0.0000	0.0000	228.8542
Total		**56.55**		**367.55**	**457.99**		**0.00**	**457.99**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**0.00**		**0.00**	**0.00**		**0.00**	**0.00**

As-Built Section Properties					
x-bar =	6.5000	in	S_{right} =	70.46	in^3
I_y =	457.99	n^4	S_{left} =	70.46	in^3
c_{right} =	6.5000	in	A =	56.5469	in^2
c_{left} =	6.5000	in	r_y =	2.8459	in

As-Inspected Section Properties					
x-bar =	6.5000	in	S_{right} =	70.46	in^3
I_y =	457.99	n^4	S_{left} =	70.46	in^3
c_{right} =	6.5000	in	A =	56.5469	in^2
c_{left} =	6.5000	in	r_y =	2.8459	in

Non-composite Capacities*		
	AB	AI
M	3869.7 k-ft	3869.7 k-ft
V	483.38 k	483.38 k

*Noncompact Section

F_y =	36.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

TranSystems

Made By SFH Date 2/10/2012 Job No. P402110046

Checked By ADK Date 3/31/2012 Sheet No.

Calculations For: **CUY-2-1441** *kmw inputs 3/29/12*

Element Dimensions (without Section Losses):

Top Angles:

$A_1 = l_w =$ 6.0000 in

$C_1 = t_f =$ 0.5000 in

$B_1 = l_v =$ 6.0000 in

Bottom Angles:

$B_2 = l_h =$ 6.0000 in

$C_2 = t_f =$ 0.5000 in

$A_2 = l_v =$ 6.0000 in

Web Plate:

$C_3 =$ 0.3750 in

*$B_3 =$ 60.5000 in

$d_o =$ 30.5000 in

d_o = stiffener spacing for shear check

Use "N/A" for no stiffeners

Top Cover Plate:

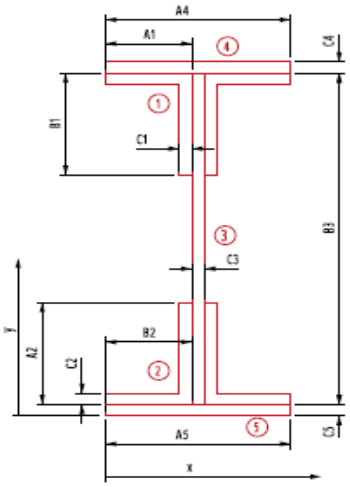
$C_4 =$ 0.0000 in

$A_4 =$ 0.0000 in

Btm Cover Plate:

$C_5 =$ 0.0000 in

$A_5 =$ 0.0000 in



Cantilever Floorbeam Type 1

*using average height of section

X-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	6.0000	60.2500	361.5000	0.1250	30.0000	5400.0000	5400.1250
	Vertical Leg	5.5000	57.2500	314.8750	13.8646	27.0000	4009.5000	4023.3646
2	Horizontal Leg	6.0000	0.2500	1.5000	0.1250	30.0000	5400.0000	5400.1250
	Vertical Leg	5.5000	3.2500	17.8750	13.8646	27.0000	4009.5000	4023.3646
3	Web Plate	22.6875	30.2500	686.2969	6920.1602	0.0000	0.0000	6920.1602
4	Cover Plate Top	0.0000	60.5000	0.0000	0.0000	30.2500	0.0000	0.0000
	Cover Plate Bottom	0.0000	0.0000	0.0000	0.0000	30.2500	0.0000	0.0000
Total		**45.69**		**1382.05**	**6948.14**		**18819.00**	**25767.14**

Section Losses			A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	2.0000	0.5000	-1.0000	0.2500	-0.2500	-0.0208	30.6713	-940.7304	-940.7512
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.00**		**-0.25**	**-0.02**		**-940.73**	**-940.75**

As-Built Section Properties						As-Inspected Section Properties					
y-bar =	30.2500	in	S_{top} =	851.81	in^3	y-bar =	30.9213	in	S_{top} =	839.33	in^3
I_x =	25767.14	n^4	$S_{bott.}$ =	851.81	in^3	I_x =	24826.39	in^4	$S_{bott.}$ =	802.89	in^3
c_{top} =	30.2500	in	A =	45.6875	in^2	c_{top} =	29.5787	in	A =	44.6875	in^2
c_{bottom} =	30.2500	in	r_x =	23.7484	in	c_{bottom} =	30.9213	in	r_x =	23.5702	in
J =	2.9801		Z =	1000.1484	in^3				Z =	1000.1484	in^3

TranSystems

Made By SFH Date 2/10/2012 Job No. P402110046
Checked By ADK Date 3/31/2012 Sheet No.
Calculations For: **CUY-2-1441** *kmw inputs 3/29/12*

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Horizontal Leg	3.0000	3.0000	9.0000	9.0000	3.1875	30.4805	39.4805
(Left)	Vertical Leg	2.7500	5.7500	15.8125	0.0573	0.4375	0.5264	0.5837
1	Horizontal Leg	3.0000	9.3750	28.1250	9.0000	3.1875	30.4805	39.4805
(Right)	Vertical Leg	2.7500	6.6250	18.2188	0.0573	0.4375	0.5264	0.5837
2	Horizontal Leg	3.0000	3.0000	9.0000	9.0000	3.1875	30.4805	39.4805
(Left)	Vertical Leg	2.7500	5.7500	15.8125	0.0573	0.4375	0.5264	0.5837
2	Horizontal Leg	3.0000	9.3750	28.1250	9.0000	3.1875	30.4805	39.4805
(Right)	Vertical Leg	2.7500	6.6250	18.2188	0.0573	0.4375	0.5264	0.5837
3	Web Plate	22.6875	6.1875	140.3789	0.2659	0.0000	0.0000	0.2659
4	Top Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
4	Bottom Cover Plate	0.0000	6.1875	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**45.69**		**282.69**	**36.50**		**124.03**	**160.52**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	0.5000	2.0000	-1.0000	2.7500	-2.7500	-0.3333	3.5144	-12.3512	-12.6845
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.00**		**-2.75**	**-0.33**		**-12.35**	**-12.68**

As-Built Section Properties					
x-bar =	6.1875	in	S_{right} =	25.94	in^3
I_y =	160.52	in^4	S_{left} =	25.94	in^3
c_{right} =	6.1875	in	A =	45.6875	in^2
c_{left} =	6.1875	in	r_y =	1.8744	in

As-Inspected Section Properties					
x-bar =	6.2644	in	S_{right} =	24.19	in^3
I_y =	147.84	in^4	S_{left} =	23.60	in^3
c_{right} =	6.1106	in	A =	44.6875	in^2
c_{left} =	6.2644	in	r_y =	1.8189	in

Non-composite Capacities*		
	AB	AI
M	2342.47 k-ft	2207.94 k-ft
V	644.78 k	644.78 k

*Noncompact Section

F_y =	33.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

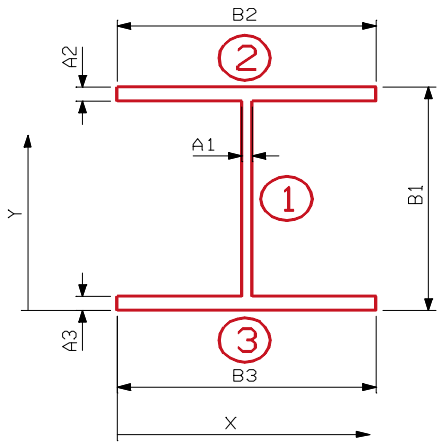
TranSystems

Made By KRS Date 3/23/2012 Job No. P402110046
Checked By ADK Date 3/31/2012 Sheet No.
Calculations For: **CUY-2-1441** *kmw inputs 3/29/12*

Element Dimensions (without Section Losses):

$A_1 = t_w =$ 0.3750 in
$B_1 = d =$ 66.5000 in
$A_2 = t_f =$ 1.2500 in
$B_2 = b_f =$ 13.0000 in
$A_3 = t_f =$ 1.2500 in
$B_3 = b_f =$ 13.0000 in

$d_o =$ 30.5000 in
d_o = stiffener spacing for shear check for no stiffners use "N/A"



Cantilever Floorbeam Type 16A

X-Axis Section Properties:

Gross Section (without Losses)		A	y	Ay	I_o	d	Ad^2	$I_{x,gross}$
Element	Description	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	Web	24.0000	33.2500	798.0000	8192.0000	0.0000	0.0000	8192.0000
2	Top Flange	16.2500	65.8750	1070.4688	2.1159	32.6250	17296.348	17298.464
3	Bottom Flange	16.2500	0.6250	10.1563	2.1159	32.6250	17296.348	17298.464
Total		**56.50**		**1878.63**	**8196.23**		**34592.70**	**42788.93**

Section Losses			A	y	Ay	I_o	d	Ad^2	$I_{x,loss}$
Loss #	b (in)	h (in)	(in^2)	(in)	(in^3)	(in^4)	(in)	(in^4)	(in^4)
1	0.1875	6.0000	-1.1250	30.2500	-34.0313	-3.3750	3.0713	-10.6123	-13.9873
2	0.1875	1.0000	-0.1875	30.2500	-5.6719	-0.0156	3.0713	-1.7687	-1.7843
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.31**		**-39.70**	**-3.39**		**-12.38**	**-15.77**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	33.2500 in	S_{top} =	1286.89 in^3	y-bar =	33.3213 in	S_{top} =	1289.18 in^3
I_x =	42788.93 in^4	$S_{bott.}$ =	1286.89 in^3	I_x =	42773.16 in^4	$S_{bott.}$ =	1283.66 in^3
c_{top} =	33.2500 in	A =	56.5000 in^2	c_{top} =	33.1787 in	A =	55.1875 in^2
c_{bottom} =	33.2500 in	r_x =	27.5196 in	c_{bottom} =	33.3213 in	r_x =	27.8397 in
J =	18.0521 in^4	Z =	1444.31 in^3			Z =	1444.31 in^3

TranSystems

Made By KRS Date 3/23/2012 Job No. P402110046
Checked By ADK Date 3/31/2012 Sheet No.

Calculations For: ***CUY-2-1441*** *kmw inputs 3/29/12*

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Web	24.0000	6.5000	156.0000	0.2813	0.0000	0.0000	0.2813
2	Top Flange	16.2500	6.5000	105.6250	228.8542	0.0000	0.0000	228.8542
3	Bottom Flange	16.2500	6.5000	105.6250	228.8542	0.0000	0.0000	228.8542
Total		**56.50**		**367.25**	**457.99**		**0.00**	**457.99**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	6.0000	0.1875	-1.1250	6.1563	-6.9258	-0.0033	0.3516	-0.1391	-0.1424
2	1.0000	0.1875	-0.1875	6.2500	-1.1719	-0.0005	0.2579	-0.0125	-0.0130
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.31**		**-8.10**	**0.00**		**-0.15**	**-0.16**

As-Built Section Properties						As-Inspected Section Properties					
x-bar =	6.5000	in	S_{right} =	70.46	in^3	x-bar =	6.5079	in	S_{right} =	70.52	in^3
I_y =	457.99	n^4	S_{left} =	70.46	in^3	I_y =	457.83	n^4	S_{left} =	70.35	in^3
c_{right} =	6.5000	in	A =	56.5000	in^2	c_{right} =	6.4921	in	A =	55.1875	in^2
c_{left} =	6.5000	in	r_y =	2.8471	in	c_{left} =	6.5079	in	r_y =	2.8803	in

Non-composite Capacities*		
	AB	AI
M	3860.7 k-ft	3851.0 k-ft
V	482.61 k	456.22 k

*Noncompact Section

F_y =	36.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

TranSystems

Made By KRS Date 3/23/2012 Job No. P402110046
Checked By ADK Date 3/31/2012 Sheet No.

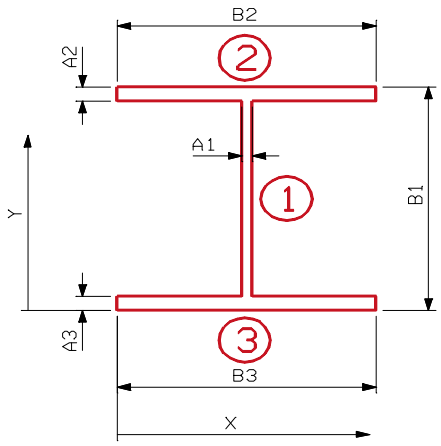
Calculations For: ***CUY-2-1441*** *kmw inputs 3/29/12*

Element Dimensions (without Section Losses):

$A_1 = t_w =$ 0.3750 in
$B_1 = d =$ 66.5000 in
$A_2 = t_f =$ 1.2500 in
$B_2 = b_f =$ 13.0000 in
$A_3 = t_f =$ 1.2500 in
$B_3 = b_f =$ 13.0000 in

$d_o =$ 30.5000 in

d_o = stiffener spacing for shear check for no stiffners use "N/A"



Cantilever Floorbeam Type 16A

X-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,gross}$ (in^4)
Element	Description							
1	Web	24.0000	33.2500	798.0000	8192.0000	0.0000	0.0000	8192.0000
2	Top Flange	16.2500	65.8750	1070.4688	2.1159	32.6250	17296.348	17298.464
3	Bottom Flange	16.2500	0.6250	10.1563	2.1159	32.6250	17296.348	17298.464
Total		**56.50**		**1878.63**	**8196.23**		**34592.70**	**42788.93**
Section Losses		A (in^2)	y (in)	Ay (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{x,loss}$ (in^4)
Loss #	b (in) h (in)							
1	0.1875 6.0000	-1.1250	33.2500	-37.4063	-3.3750	0.0000	0.0000	-3.3750
2	0.1875 1.0000	-0.1875	33.2500	-6.2344	-0.0156	0.0000	0.0000	-0.0156
3	0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**-1.31**		**-43.64**	**-3.39**		**0.00**	**-3.39**

As-Built Section Properties				As-Inspected Section Properties			
y-bar =	33.2500 in	S_{top} =	1286.89 in^3	y-bar =	33.2500 in	S_{top} =	1286.78 in^3
I_x =	42788.93 in^4	$S_{bott.}$ =	1286.89 in^3	I_x =	42785.54 in^4	$S_{bott.}$ =	1286.78 in^3
c_{top} =	33.2500 in	A =	56.5000 in^2	c_{top} =	33.2500 in	A =	55.1875 in^2
c_{bottom} =	33.2500 in	r_x =	27.5196 in	c_{bottom} =	33.2500 in	r_x =	27.8438 in
J =	18.0521 in^4	Z =	1444.31 in^3			Z =	1444.31 in^3

TranSystems

Made By KRS Date 3/23/2012 Job No. P402110046
Checked By ADK Date 3/31/2012 Sheet No.

Calculations For: ***CUY-2-1441*** *kmw inputs 3/29/12*

Y-Axis Section Properties:

Gross Section (without Losses)		A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,gross}$ (in^4)
Element	Description							
1	Web	24.0000	6.5000	156.0000	0.2813	0.0000	0.0000	0.2813
2	Top Flange	16.2500	6.5000	105.6250	228.8542	0.0000	0.0000	228.8542
3	Bottom Flange	16.2500	6.5000	105.6250	228.8542	0.0000	0.0000	228.8542
Total		**56.50**		**367.25**	**457.99**		**0.00**	**457.99**

Section Losses			A (in^2)	x (in)	Ax (in^3)	I_o (in^4)	d (in)	Ad^2 (in^4)	$I_{y,loss}$ (in^4)
Loss #	b (in)	h (in)							
1	6.0000	0.1875	-1.1250	6.1563	-6.9258	-0.0033	0.3516	-0.1391	-0.1424
2	1.0000	0.1875	-0.1875	6.2500	-1.1719	-0.0005	0.2579	-0.0125	-0.0130
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			**-1.31**		**-8.10**	**0.00**		**-0.15**	**-0.16**

As-Built Section Properties						As-Inspected Section Properties					
x-bar =	6.5000	in	S_{right} =	70.46	in^3	x-bar =	6.5079	in	S_{right} =	70.52	in^3
I_y =	457.99	n^4	S_{left} =	70.46	in^3	I_y =	457.83	n^4	S_{left} =	70.35	in^3
c_{right} =	6.5000	in	A =	56.5000	in^2	c_{right} =	6.4921	in	A =	55.1875	in^2
c_{left} =	6.5000	in	r_y =	2.8471	in	c_{left} =	6.5079	in	r_y =	2.8803	in

Non-composite Capacities*		
	AB	AI
M	3860.7 k-ft	3860.4 k-ft
V	482.61 k	456.22 k

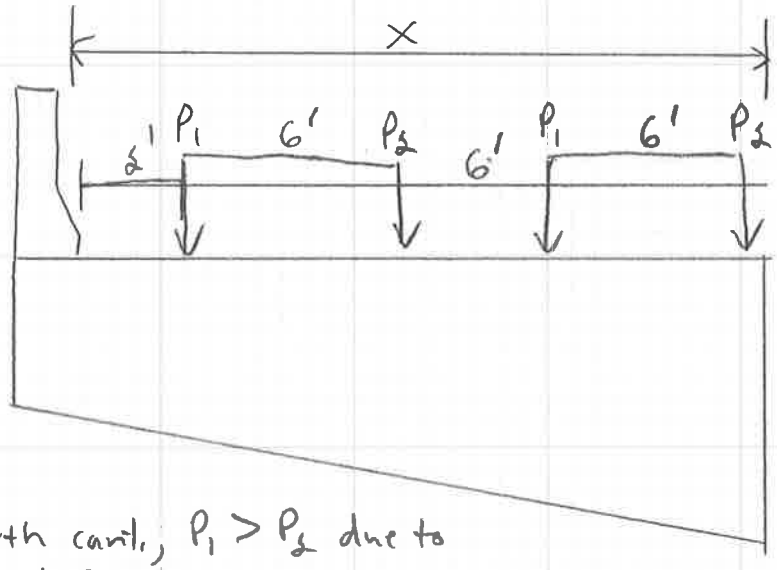
*Noncompact Section

F_y =	36.00 ksi

AB = As-Built
AI = As-Inspected
M = Moment
V = Shear

FLOORBEAM LOADS

Main Truss Floorbeam



* For North cantil., $P_1 > P_2$ due to centrifugal forces

2' offset from curb		Shear	Moment
If	$(x-2') < 6'$ →	P_1	$P_1(x-2')$
	$(x-2') = 6'$ →	$P_1 + P_2$	$P_1(x-2')$
	$6' < (x-2') < 12'$ →	$P_1 + P_2$	$P_1(x-2) + P_2(x-8)$
	$(x-2) = 12'$ →	$2P_1 + P_2$	$P_1(x-2) + P_2(x-8)$
	$12' < (x-2) < 18'$ →	$2P_1 + P_2$	$P_1(x-2) + P_2(x-8) + P_1(x-14)$
	$(x-2) = 18'$ →	$2P_1 + 2P_2$	$P_1(x-2) + P_2(x-8) + P_1(x-14)$
	$18 < (x-2)$ →	$2P_1 + 2P_2$	$P_1(x-2) + P_2(x-8) + P_1(x-14) + P_2(x-20)$

Centrifugal force (See Truss LL Calcs)

16.3% P_1 increased by 16.3%

P_2 decreased by 16.3%

Calculations for 1/8 US Grid

* Floorbeams at U0 - U42 are equal to U43
  U63 - U109 are equal to U62
  due to symmetric cross section

* Dead Loads taken from Truss STAAD Dead Load Model.

```
STAAD SPACE
START JOB INFORMATION
ENGINEER DATE 22-Mar-11
END JOB INFORMATION
INPUT WIDTH 79
UNIT FEET KIP
JOINT COORDINATES
1 0 0 0; 2 20 0 0; 3 40 0 0;
MEMBER INCIDENCES
1 1 2; 2 2 3;
DEFINE MATERIAL START
ISOTROPIC STEEL
E 4.176e+006
POISSON 0.3
DENSITY 0.489024
ALPHA 6e-006
DAMP 0.03
END DEFINE MATERIAL
MEMBER PROPERTY AMERICAN
1 2 TABLE ST W24X84
CONSTANTS
MATERIAL STEEL ALL
SUPPORTS
2 PINNED
1 3 FIXED BUT FX MX MY MZ
DEFINE MOVING LOAD
*HS-20
TYPE 1 LOAD 16 16 4
DIST 14 14
*2F1
TYPE 2 LOAD 10 5
DIST 10
*3F1
TYPE 3 LOAD 6 8.5 8.5
DIST 10 4
*4F1
TYPE 4 LOAD 6 7 7 7
DIST 10 4 4
*5C1
TYPE 5 LOAD 6 8.5 8.5 8.5 8.5
DIST 12 4 31 4

**********P1***************
*HS-20 P1
TYPE 11 LOAD 18.6 18.6 4.65
DIST 14 14
*2F1 P1
TYPE 12 LOAD 11.163 5.82
DIST 10
*3F1 P1
TYPE 13 LOAD 6.98 9.89 9.89
DIST 10 4
*4F1 P1
TYPE 14 LOAD 6.98 8.14 8.14 8.14
DIST 10 4 4
*5C1 P1
TYPE 15 LOAD 6.98 9.89 9.89 9.89 9.89
DIST 12 4 31 4

**********P2***************
*HS-20 P2
TYPE 16 LOAD 13.39 13.39 3.35
DIST 14 14
*2F1 P2
TYPE 17 LOAD 8.37 4.185
DIST 10
*3F1 P2
TYPE 18 LOAD 5.02 7.11 7.11
DIST 10 4
*4F1 P2
TYPE 19 LOAD 5.02 5.86 5.86 5.86
DIST 10 4 4
*5C1 P2
TYPE 20 LOAD 5.02 7.11 7.11 7.11 7.11
DIST 12 4 31 4

***************NORTH TRUSS**********
```

```
**********NORTH TRUSS**********
***HS20 P1
*LOAD GENERATION 1000
*TYPE 11 -28 0 0 XINC 0.1

**HS20 P2
*LOAD GENERATION 1000
*TYPE 16 -28 0 0 XINC 0.1

***2F1 P1
*LOAD GENERATION 1000
*TYPE 12 -10 0 0 XINC 0.1

***2F1 P2
*LOAD GENERATION 1000
*TYPE 17 -10 0 0 XINC 0.1

***3F1 P1
*LOAD GENERATION 1000
*TYPE 13 -14 0 0 XINC 0.1

***3F1 P2
*LOAD GENERATION 1000
*TYPE 18 -14 0 0 XINC 0.1
*
***4F1 P1
*LOAD GENERATION 1000
*TYPE 14 -18 0 0 XINC 0.1

***4F1 P2
*LOAD GENERATION 1000
*TYPE 19 -18 0 0 XINC 0.1
*
***5C1 P1
*LOAD GENERATION 1000
*TYPE 15 -51 0 0 XINC 0.1

**5C1 P2
*LOAD GENERATION 1000
*TYPE 20 -51 0 0 XINC 0.1

**********SOUTH TRUSS**********

***HS20 P1 & P2
*LOAD GENERATION 1000
*TYPE 1 -28 0 0 XINC 0.1

***2F1 P1 & P2
*LOAD GENERATION 1000
*TYPE 2 -10 0 0 XINC 0.1

***3F1 P1 & P2
*LOAD GENERATION 1000
*TYPE 3 -14 0 0 XINC 0.1
*
***4F1 P1 & P2
*LOAD GENERATION 1000
*TYPE 4 -18 0 0 XINC 0.1

**5C1 P1 & P2
LOAD GENERATION 1000
TYPE 5 -51 0 0 XINC 0.1



PERFORM ANALYSIS
FINISH
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Cantilever FB Service Loads

Made By: ADK Date: 3/29/2012
Checked By: CTG Date: 3/29/2012

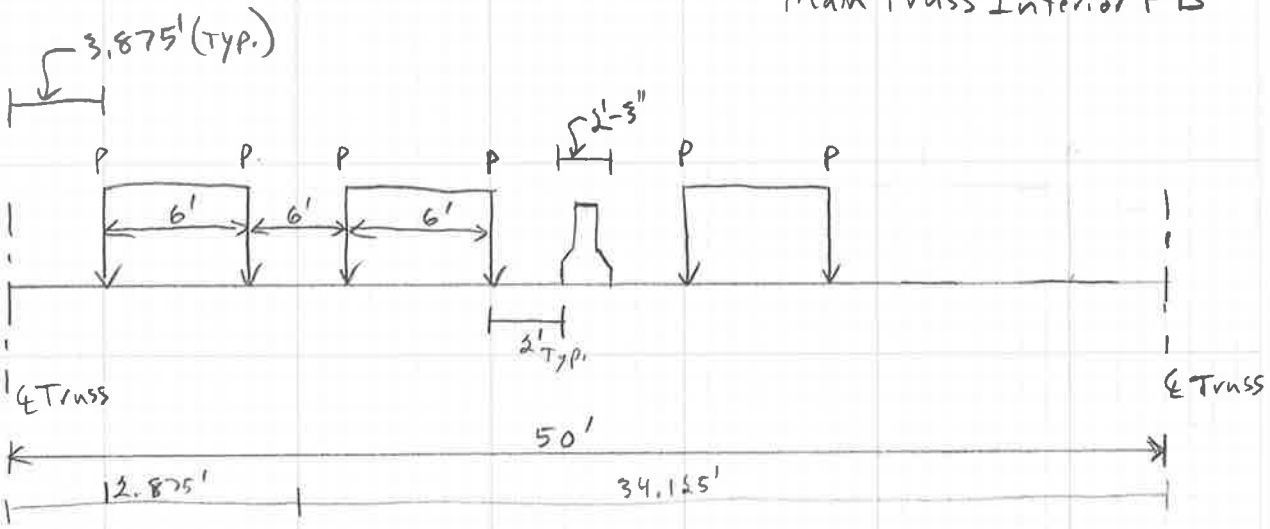
				Dead Load		HS-20				2F1				3F1				4F1				5C1			
			Length To Curb	Shear	Moment	P1	P2	Shear	Moment	P1	P2	Shear	Moment	P1	P2	Shear	Moment	P1	P2	Shear	Moment	P1	P2	Shear	Moment
Panel Point	Truss	Length	Length - 1'-7"	(kips)	(kip-ft)	(kips)	(kips)	(kips)	(kip-ft)	(kips)	(kips)	(kips)	(kip-ft)	(kips)	(kips)	(kips)	(kip-ft)	(kips)	(kips)	(kips)	(kip-ft)	(kips)	(kips)	(kips)	(kip-ft)
U43	N	15.7187	14.1354	42.3	282.4	31.0	22.3	84.4	518.0	15.7	11.6	42.9	263.2	24.0	17.3	65.3	400.8	27.1	19.5	73.8	452.8	23.2	16.7	63.2	387.5
U44	N	15.6615	14.0782	31.4	264.3	31.0	22.3	84.4	513.2	15.7	11.6	42.9	260.7	24.0	17.3	65.3	397.0	27.1	19.5	73.8	448.6	23.2	16.7	63.2	383.9
U45	N	15.3854	13.8021	43.2	283.1	31.0	22.3	53.4	496.0	15.7	11.6	27.2	252.0	24.0	17.3	41.3	383.7	27.1	19.5	46.7	433.6	23.2	16.7	39.9	371.0
U46	N	14.8906	13.3073	31.3	257.8	31.0	22.3	53.4	469.6	15.7	11.6	27.2	238.5	24.0	17.3	41.3	363.3	27.1	19.5	46.7	410.5	23.2	16.7	39.9	351.3
U47	N	14.1771	12.5938	44.2	283.2	31.0	22.3	53.4	431.5	15.7	11.6	27.2	219.1	24.0	17.3	41.3	333.8	27.1	19.5	46.7	377.2	23.2	16.7	39.9	322.8
U48	N	13.3965	11.8132	59.5	292.9	31.0	22.3	53.4	389.8	15.7	11.6	27.2	197.8	24.0	17.3	41.3	301.6	27.1	19.5	46.7	340.8	23.2	16.7	39.9	291.6
U49	N	15.0377	13.4544	43.4	314.8	31.0	22.3	53.4	477.4	15.7	11.6	27.2	242.5	24.0	17.3	41.3	369.4	27.1	19.5	46.7	417.4	23.2	16.7	39.9	357.2
U50	N	16.4366	14.8533	41.0	294.4	31.0	22.3	84.4	578.6	15.7	11.6	42.9	294.0	24.0	17.3	65.3	447.6	27.1	19.5	73.8	505.8	23.2	16.7	63.2	432.8
U51	N	17.6123	16.029	49.4	351.1	31.0	22.3	84.4	677.8	15.7	11.6	42.9	344.4	24.0	17.3	65.3	524.4	27.1	19.5	73.8	592.6	23.2	16.7	63.2	507.1
U52	N	18.5653	16.982	55.2	404.5	31.0	22.3	84.4	758.3	15.7	11.6	42.9	385.3	24.0	17.3	65.3	586.7	27.1	19.5	73.8	662.9	23.2	16.7	63.2	567.3
U53	N	19.2905	17.7072	40.6	399.4	31.0	22.3	84.4	819.5	15.7	11.6	42.9	416.4	24.0	17.3	65.3	634.1	27.1	19.5	73.8	716.4	23.2	16.7	63.2	613.1
U54	N	19.7937	18.2104	63.9	437.8	31.0	22.3	84.4	862.0	15.7	11.6	42.9	438.0	24.0	17.3	65.3	666.9	27.1	19.5	73.8	753.5	23.2	16.7	63.2	644.8
U55	N	20.0749	18.4916	46.7	470.6	31.0	22.3	84.4	885.8	15.7	11.6	42.9	450.0	24.0	17.3	65.3	685.3	27.1	19.5	73.8	774.3	23.2	16.7	63.2	662.6
U56	N	20.1405	18.5572	61.4	461.5	31.0	22.3	84.4	891.3	15.7	11.6	42.9	452.9	24.0	17.3	65.3	689.6	27.1	19.5	73.8	779.1	23.2	16.7	63.2	666.8
U57	N	19.9842	18.4009	44.4	424.8	31.0	22.3	84.4	878.1	15.7	11.6	42.9	446.1	24.0	17.3	65.3	679.4	27.1	19.5	73.8	767.6	23.2	16.7	63.2	656.9
U58	N	19.6062	18.0229	60.3	439.6	31.0	22.3	84.4	846.2	15.7	11.6	42.9	429.9	24.0	17.3	65.3	654.7	27.1	19.5	73.8	739.7	23.2	16.7	63.2	633.0
U59	N	19.0038	17.4205	53.5	401.3	31.0	22.3	84.4	795.3	15.7	11.6	42.9	404.1	24.0	17.3	65.3	615.3	27.1	19.5	73.8	695.3	23.2	16.7	63.2	595.0
U60	N	18.1793	16.596	40.1	378.3	31.0	22.3	84.4	725.7	15.7	11.6	42.9	368.7	24.0	17.3	65.3	561.5	27.1	19.5	73.8	634.4	23.2	16.7	63.2	542.9
U61	N	17.1322	15.5489	58.6	368.5	31.0	22.3	84.4	637.3	15.7	11.6	42.9	323.8	24.0	17.3	65.3	493.1	27.1	19.5	73.8	557.1	23.2	16.7	63.2	476.8
U62	N	15.7188	14.1355	50.1	311.6	31.0	22.3	84.4	518.0	15.7	11.6	42.9	263.2	24.0	17.3	65.3	400.8	27.1	19.5	73.8	452.8	23.2	16.7	63.2	387.5
U110	N	15.7188	14.1355	39.2	287.2	31.0	22.3	84.4	518.0	15.7	11.6	42.9	263.2	24.0	17.3	65.3	400.8	27.1	19.5	73.8	452.8	23.2	16.7	63.2	387.5
U111	N	16.8038	15.2205	32.4	301.9	31.0	22.3	84.4	609.6	15.7	11.6	42.9	309.7	24.0	17.3	65.3	471.6	27.1	19.5	73.8	532.9	23.2	16.7	63.2	456.0
U112	N	17.8039	16.2206	44.1	334.9	31.0	22.3	84.4	694.0	15.7	11.6	42.9	352.6	24.0	17.3	65.3	537.0	27.1	19.5	73.8	606.7	23.2	16.7	63.2	519.2
U113	N	18.788	17.2047	58.3	401.5	31.0	22.3	84.4	777.1	15.7	11.6	42.9	394.8	24.0	17.3	65.3	601.2	27.1	19.5	73.8	679.3	23.2	16.7	63.2	581.3
U114	N	19.7722	18.1889	35.3	384.2	31.0	22.3	84.4	860.2	15.7	11.6	42.9	437.1	24.0	17.3	65.3	665.5	27.1	19.5	73.8	752.0	23.2	16.7	63.2	643.5
U115	N	20.758	19.1747	50.5	422.5	31.0	22.3	84.4	943.4	15.7	11.6	42.9	479.3	24.0	17.3	65.3	729.9	27.1	19.5	73.8	824.7	23.2	16.7	63.2	705.7
U116	N	21.6884	20.1051	55.8	470.9	31.0	22.3	106.8	1024.3	15.7	11.6	54.5	520.5	24.0	17.3	82.6	792.5	27.1	19.5	93.3	895.4	23.2	16.7	79.9	766.3
U117	N	22.2618	20.6785	64.9	501.1	31.0	22.3	106.8	1085.5	15.7	11.6	54.5	551.7	24.0	17.3	82.6	839.9	27.1	19.5	93.3	949.0	23.2	16.7	79.9	812.1
U118	N	22.4499	20.8666	62.9	535.2	31.0	22.3	106.8	1105.6	15.7	11.6	54.5	562.0	24.0	17.3	82.6	855.4	27.1	19.5	93.3	966.5	23.2	16.7	79.9	827.1
U119	N	22.2525	20.6692	39.7	495.8	31.0	22.3	106.8	1084.6	15.7	11.6	54.5	551.2	24.0	17.3	82.6	839.1	27.1	19.5	93.3	948.1	23.2	16.7	79.9	811.3
U120	N	21.6753	20.092	39.8	458.4	31.0	22.3	106.8	1022.9	15.7	11.6	54.5	519.8	24.0	17.3	82.6	791.4	27.1	19.5	93.3	894.2	23.2	16.7	79.9	765.2
U121	N	20.7128	19.1295	52.1	443.7	31.0	22.3	84.4	939.6	15.7	11.6	42.9	477.4	24.0	17.3	65.3	727.0	27.1	19.5	73.8	821.4	23.2	16.7	63.2	702.9
U122	N	19.3648	17.7815	53.3	395.0	31.0	22.3	84.4	825.8	15.7	11.6	42.9	419.6	24.0	17.3	65.3	638.9	27.1	19.5	73.8	721.9	23.2	16.7	63.2	617.8
U123	N	17.6328	16.0495	45.3	313.2	31.0	22.3	84.4	679.6	15.7	11.6	42.9	345.3	24.0	17.3	65.3	525.8	27.1	19.5	73.8	594.1	23.2	16.7	63.2	508.4
U124	N	15.5101	13.9268	42.6	261.2	31.0	22.3	53.4	502.6	15.7	11.6	27.2	255.4	24.0	17.3	41.3	388.9	27.1	19.5	46.7	439.4	23.2	16.7	39.9	376.0
U125	N	12.9968	11.4135	34.7	214.2	31.0	22.3	53.4	368.5	15.7	11.6	27.2	186.9	24.0	17.3	41.3	285.1	27.1	19.5	46.7	322.1	23.2	16.7	39.9	275.7
U126	N	8.9531	7.3698	19.9	98.8	31.0	22.3	31.0	166.7	15.7	11.6	15.7	84.1	24.0	17.3	24.0	129.0	27.1	19.5	27.1	145.7	23.2	16.7	23.2	124.7
U43	S	15.7812	14.1979	41.7	273.6	26.7	26.7	80.1	496.5	13.8	13.8	41.5	257.4	20.6	20.6	61.9	383.9	23.3	23.3	70.0	433.8	20.0	20.0	59.9	371.2
U44	S	15.7812	14.1979	41.9	274.8	26.7	26.7	80.1	496.5	13.8	13.8	41.5	257.4	20.6	20.6	61.9	383.9	23.3	23.3	70.0	433.8	20.0	20.0	59.9	371.2
U45	S	16.0677	14.4844	30.9	258.7	26.7	26.7	80.1	519.4	13.8	13.8	41.5	269.3	20.6	20.6	61.9	401.7	23.3	23.3	70.0	453.9	20.0	20.0	59.9	388.4
U46	S	16.5833	15	43.3	286.6	26.7	26.7	80.1	560.7	13.8	13.8	41.5	290.7	20.6	20.6	61.9	433.6	23.3	23.3	70.0	490.0	20.0	20.0	59.9	419.2
U47	S	17.3333	15.75	41.1	278.3	26.7	26.7	80.1	620.8	13.8	13.8	41.5	321.9	20.6	20.6	61.9	480.1	23.3	23.3	70.0	542.5	20.0	20.0	59.9	464.2
U48	S	18.2151	16.6318	37.6	275.4	26.7	26.7	80.1	691.4	13.8	13.8	41.5	358.5	20.6	20.6	61.9	534.7	23.3	23.3	70.0	604.2	20.0	20.0	59.9	517.0
U49	S	17.408	15.8247	37.1	275.3	26.7	26.7	80.1	626.8	13.8	13.8	41.5	325.0	20.6	20.6	61.9	484.7	23.3	23.3	70.0	547.7	20.0	20.0	59.9	468.6
U50	S	15.7276	14.1443	30.5	262.0	26.7	26.7	80.1	492.2	13.8	13.8	41.5	255.2	20.6	20.6	61.9	380.6	23.3	23.3	70.0	430.1	20.0	20.0	59.9	368.0
U51	S	14.2816	12.6983	35.0	236.4	26.7	26.7	53.4	411.1	13.8	13.8	27.7	213.2	20.6	20.6	41.3	317.9	23.3	23.3	46.7	359.2	20.0	20.0	39.9	307.4

Cantilever FB Service Loads

Made By: ADK Date: 3/29/2012
Checked By: CTG Date: 3/29/2012

				Dead Load		HS-20				2F1				3F1				4F1				5C1			
			Length To Curb	Shear	Moment	P1	P2	Shear	Moment	P1	P2	Shear	Moment	P1	P2	Shear	Moment	P1	P2	Shear	Moment	P1	P2	Shear	Moment
Panel Point	Truss	Length	Length - 1'-7"	(kips)	(kip-ft)	(kips)	(kips)	(kips)	(kip-ft)	(kips)	(kips)	(kips)	(kip-ft)	(kips)	(kips)	(kips)	(kip-ft)	(kips)	(kips)	(kips)	(kip-ft)	(kips)	(kips)	(kips)	(kip-ft)
U52	S	13.0695	11.4862	31.7	211.5	26.7	26.7	53.4	346.4	13.8	13.8	27.7	179.6	20.6	20.6	41.3	267.9	23.3	23.3	46.7	302.7	20.0	20.0	39.9	259.0
U53	S	12.3074	10.7241	29.3	194.1	26.7	26.7	53.4	305.7	13.8	13.8	27.7	158.5	20.6	20.6	41.3	236.4	23.3	23.3	46.7	267.1	20.0	20.0	39.9	228.6
U54	S	11.7779	10.1946	29.7	189.5	26.7	26.7	53.4	277.4	13.8	13.8	27.7	143.8	20.6	20.6	41.3	214.5	23.3	23.3	46.7	242.4	20.0	20.0	39.9	207.4
U55	S	11.4809	9.8976	28.2	177.3	26.7	26.7	53.4	261.5	13.8	13.8	27.7	135.6	20.6	20.6	41.3	202.3	23.3	23.3	46.7	228.6	20.0	20.0	39.9	195.6
U56	S	11.4153	9.832	22.9	141.0	26.7	26.7	53.4	258.0	13.8	13.8	27.7	133.8	20.6	20.6	41.3	199.5	23.3	23.3	46.7	225.5	20.0	20.0	39.9	192.9
U57	S	11.5819	9.9986	21.1	149.3	26.7	26.7	53.4	266.9	13.8	13.8	27.7	138.4	20.6	20.6	41.3	206.4	23.3	23.3	46.7	233.3	20.0	20.0	39.9	199.6
U58	S	11.9809	10.3976	35.4	183.2	26.7	26.7	53.4	288.2	13.8	13.8	27.7	149.4	20.6	20.6	41.3	222.9	23.3	23.3	46.7	251.9	20.0	20.0	39.9	215.5
U59	S	12.6426	11.0593	38.5	245.1	26.7	26.7	53.4	323.6	13.8	13.8	27.7	167.8	20.6	20.6	41.3	250.2	23.3	23.3	46.7	282.8	20.0	20.0	39.9	241.9
U60	S	13.5372	11.9539	30.2	212.6	26.7	26.7	53.4	371.4	13.8	13.8	27.7	192.5	20.6	20.6	41.3	287.2	23.3	23.3	46.7	324.5	20.0	20.0	39.9	277.7
U61	S	14.6649	13.0816	30.7	227.4	26.7	26.7	53.4	431.6	13.8	13.8	27.7	223.8	20.6	20.6	41.3	333.7	23.3	23.3	46.7	377.1	20.0	20.0	39.9	322.7
U62	S	15.7188	14.1355	40.6	278.8	26.7	26.7	80.1	491.5	13.8	13.8	41.5	254.8	20.6	20.6	61.9	380.1	23.3	23.3	70.0	429.5	20.0	20.0	59.9	367.5
U110	S	15.7188	14.1355	41.6	281.5	26.7	26.7	80.1	491.5	13.8	13.8	41.5	254.8	20.6	20.6	61.9	380.1	23.3	23.3	70.0	429.5	20.0	20.0	59.9	367.5
U111	S	14.8325	13.2492	33.4	255.9	26.7	26.7	53.4	440.5	13.8	13.8	27.7	228.4	20.6	20.6	41.3	340.7	23.3	23.3	46.7	385.0	20.0	20.0	39.9	329.4
U112	S	13.8766	12.2933	38.5	247.0	26.7	26.7	53.4	389.5	13.8	13.8	27.7	201.9	20.6	20.6	41.3	301.2	23.3	23.3	46.7	340.3	20.0	20.0	39.9	291.2
U113	S	12.9207	11.3374	31.0	207.8	26.7	26.7	53.4	338.4	13.8	13.8	27.7	175.5	20.6	20.6	41.3	261.7	23.3	23.3	46.7	295.7	20.0	20.0	39.9	253.0
U114	S	11.9649	10.3816	30.5	195.3	26.7	26.7	53.4	287.4	13.8	13.8	27.7	149.0	20.6	20.6	41.3	222.2	23.3	23.3	46.7	251.1	20.0	20.0	39.9	214.9
U115	S	11.009	9.4257	26.0	156.3	26.7	26.7	53.4	236.3	13.8	13.8	27.7	122.5	20.6	20.6	41.3	182.8	23.3	23.3	46.7	206.5	20.0	20.0	39.9	176.7
U116	S	10.0531	8.4698	33.6	156.2	26.7	26.7	53.4	185.3	13.8	13.8	27.7	96.1	20.6	20.6	41.3	143.3	23.3	23.3	46.7	161.9	20.0	20.0	39.9	138.5
U117	S	9.4958	7.9125	29.2	144.6	26.7	26.7	26.7	157.9	13.8	13.8	13.8	81.9	20.6	20.6	20.6	122.1	23.3	23.3	23.3	138.0	20.0	20.0	20.0	118.0
U118	S	9.3292	7.7459	28.0	133.6	26.7	26.7	26.7	153.4	13.8	13.8	13.8	79.5	20.6	20.6	20.6	118.6	23.3	23.3	23.3	134.1	20.0	20.0	20.0	114.7
U119	S	9.574	7.9907	32.3	141.2	26.7	26.7	26.7	160.0	13.8	13.8	13.8	82.9	20.6	20.6	20.6	123.7	23.3	23.3	23.3	139.8	20.0	20.0	20.0	119.6
U120	S	10.2406	8.6573	19.6	131.2	26.7	26.7	53.4	195.3	13.8	13.8	27.7	101.3	20.6	20.6	41.3	151.0	23.3	23.3	46.7	170.7	20.0	20.0	39.9	146.0
U121	S	11.324	9.7407	44.3	180.0	26.7	26.7	53.4	253.2	13.8	13.8	27.7	131.3	20.6	20.6	41.3	195.8	23.3	23.3	46.7	221.2	20.0	20.0	39.9	189.3
U122	S	12.4073	10.824	39.8	224.8	26.7	26.7	53.4	311.0	13.8	13.8	27.7	161.3	20.6	20.6	41.3	240.5	23.3	23.3	46.7	271.8	20.0	20.0	39.9	232.5
U123	S	14.7563	13.173	47.9	278.2	26.7	26.7	53.4	436.5	13.8	13.8	27.7	226.3	20.6	20.6	41.3	337.5	23.3	23.3	46.7	381.4	20.0	20.0	39.9	326.3
U124	S	17.1052	15.5219	44.9	330.5	26.7	26.7	80.1	602.5	13.8	13.8	41.5	312.4	20.6	20.6	61.9	465.9	23.3	23.3	70.0	526.5	20.0	20.0	59.9	450.5
U125	S	19.4542	17.8709	53.1	364.2	26.7	26.7	80.1	790.7	13.8	13.8	41.5	410.0	20.6	20.6	61.9	611.4	23.3	23.3	70.0	691.0	20.0	20.0	59.9	591.2
U126	S	22.417	20.8337	25.0	193.7	26.7	26.7	106.8	1050.3	13.8	13.8	55.4	544.6	20.6	20.6	82.6	812.2	23.3	23.3	93.3	917.8	20.0	20.0	79.9	785.3

Main Truss Interior FB



Maximum Moment (Symmetric Section)

$M = 45.48 \times .9 = \underline{40.94}\ P$ ← 3 lanes controls

Per Floorbeam Cantilever Calc, P equals:

	P	Mmax
HS-20	26.7 K	1093.1 K-ft
2F1	13.8 K	565.0 K-ft
3F1	20.6 K	843.4 K-ft
4F1	23.3 K	953.9 K-ft
5C1	20.0 K	818.8 K-ft

Max. Shear (Symmetric Section)

Shift 2 lanes to be above ℄ truss:

$V = P + P\left(\frac{44}{50}\right) + P\left(\frac{38}{50}\right) + P\left(\frac{32}{50}\right)$ ← 2 lanes control

$= \underline{3.28}\ P$

Calculations for 1/8 US Grid

Main Truss Int. FB

Max. Shear (Symmetric Section) Cont.

$V = 3.28P$

	P	Vmax
HS-20	26.7 K	87.6 K
2F1	13.8 K	45.3 K
3F1	20.6 K	67.6 K
4F1	23.3 K	76.4 K
5C1	20.0 K	65.6 K

Dead Load (Taken From STAAD Model (Dead Load))

Interior Floorbeam Dead Load Forces Verified 3/29/12

Floorbeam	Shear	Moment	Floorbeam	Shear	Moment	Floorbeam	Shear	Moment	Floorbeam	Shear	Moment
	(kips)	(kip-ft)		(kips)	(kip-ft)		(kips)	(kip-ft)		(kips)	(kip-ft)
0	51.4	182.2	32	81.4	296.4	64	74.9	303.0	96	69.8	306.7
1	81.5	284.4	33	70.8	296.6	65	80.0	303.7	97	79.2	272.1
2	81.4	280.4	34	81.5	280.5	66	79.4	305.7	98	81.3	281.5
3	70.4	292.4	35	80.7	292.3	67	75.3	307.1	99	67.5	289.1
4	81.0	294.6	36	69.4	312.9	68	67.4	298.1	100	81.1	259.6
5	80.8	290.6	37	81.2	297.3	69	72.7	307.5	101	77.3	279.2
6	81.6	285.2	38	81.0	285.0	70	77.9	291.4	102	77.0	291.2
7	71.6	335.0	39	80.8	272.0	71	74.8	316.3	103	81.8	274.6
8	81.6	288.3	40	81.0	294.4	72	74.7	282.1	104	78.9	301.8
9	81.4	282.0	41	80.2	299.4	73	82.0	269.0	105	75.9	293.8
10	81.9	318.9	42	82.0	282.8	74	79.9	280.0	106	77.4	310.4
11	81.0	292.8	43	70.7	302.2	75	76.0	289.4	107	75.0	309.3
12	70.9	296.8	44	81.3	290.0	76	68.2	295.9	108	74.0	306.3
13	81.9	277.6	45	80.4	292.6	77	81.4	287.0	109	78.6	303.2
14	81.0	293.1	46	80.9	298.5	78	77.4	289.2	110	75.8	318.2
15	81.0	271.9	47	71.7	301.2	79	84.9	263.7	111	87.8	324.0
16	81.2	277.5	48	72.0	334.3	80	79.5	273.3	112	77.1	356.6
17	70.6	294.1	49	74.9	301.6	81	82.8	294.4	113	70.3	428.3
18	68.9	306.3	50	78.9	327.8	82	75.3	279.1	114	97.2	420.9
19	81.2	276.8	51	72.4	366.1	83	65.1	304.2	115	86.0	448.8
20	81.6	311.3	52	73.7	412.0	84	76.0	308.4	116	85.9	494.0
21	81.2	275.3	53	89.6	410.2	85	74.7	314.5	117	76.6	495.1
22	81.1	296.7	54	67.0	435.8	86	73.1	310.2	118	78.6	521.4
23	83.5	273.6	55	89.0	475.7	87	78.1	312.1	119	103.4	483.2
24	81.3	277.7	56	77.9	443.1	88	79.2	306.2	120	100.5	439.7
25	81.0	270.8	57	65.7	184.2	89	78.9	300.0	121	83.0	441.0
26	81.2	276.3	58	56.3	239.8	90	74.6	301.7	122	70.7	405.9
27	81.2	278.4	59	59.0	245.1	91	78.6	275.9	123	70.0	341.8
28	71.3	331.3	60	68.3	212.6	92	75.4	302.0	124	72.7	300.3
29	81.5	285.6	61	68.8	227.4	93	77.1	278.3	125	70.7	344.2
30	80.9	313.7	62	68.1	315.1	94	79.9	289.0	126	40.4	180.1
31	81.3	278.5	63	73.4	318.1	95	77.7	283.7			

FLOORBEAM RATING FACTORS

AS-BUILT FLOORBEAM RATINGS

Calculations For. ***CUY-2-1441*** *Main Truss, As-Built Floorbeam Ratings*

North Bracket Floorbeams
HS-20 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment		Rating Factor - Shear	
			Moment k-ft	Shear k	Moment k-ft	Shear k		Moment k-ft	Shear k	Inventory	Operating	Inventory	Operating
HS-20	0	N	282.39	42.30	517.98	84.43	1.3	2229.84	452.13	1.27	2.13	1.67	2.78
HS-20	1	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	2	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	3	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	4	N	282.39	42.30	517.98	84.43	1.3	*2362.62	*452.13	1.37	2.28	1.67	2.78
HS-20	5	N	282.39	42.30	517.98	84.43	1.3	*2362.62	*452.13	1.37	2.28	1.67	2.78
HS-20	6	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	7	N	282.39	42.30	517.98	84.43	1.3	2229.84	452.13	1.27	2.13	1.67	2.78
HS-20	8	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	9	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	10	N	282.39	42.30	517.98	84.43	1.3	*2362.62	*452.13	1.37	2.28	1.67	2.78
HS-20	11	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	12	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	13	N	282.39	42.30	517.98	84.43	1.3	2642.63	484.92	1.56	2.60	1.81	3.01
HS-20	14	N	282.39	42.30	517.98	84.43	1.3	*2362.62	*452.13	1.37	2.28	1.67	2.78
HS-20	15	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	16	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	17	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	18	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	19	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	20	N	282.39	42.30	517.98	84.43	1.3	*2362.62	*452.13	1.37	2.28	1.67	2.78
HS-20	21	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	22	N	282.39	42.30	517.98	84.43	1.3	*2362.62	*452.13	1.37	2.28	1.67	2.78
HS-20	23	N	282.39	42.30	517.98	84.43	1.3	2642.63	484.92	1.56	2.60	1.81	3.01
HS-20	24	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	25	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	26	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	27	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	28	N	282.39	42.30	517.98	84.43	1.3	2229.84	452.13	1.27	2.13	1.67	2.78
HS-20	29	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	30	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	31	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	32	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	33	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	34	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	35	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	36	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	37	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	38	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	39	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	40	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	41	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	42	N	282.39	42.30	517.98	84.43	1.3	2642.63	484.92	1.56	2.60	1.81	3.01
HS-20	43	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	44	N	264.265	31.36	513.15	84.43	1.3	2362.62	452.13	1.39	2.33	1.73	2.88
HS-20	45	N	283.125	43.21	495.99	53.39	1.3	2342.47	644.78	1.41	2.36	3.91	6.52
HS-20	46	N	257.829	31.27	469.57	53.39	1.3	2362.62	452.13	1.53	2.55	2.73	4.56
HS-20	47	N	283.172	44.21	431.48	53.39	1.3	2342.47	644.78	1.62	2.71	3.90	6.51
HS-20	48	N	292.85	59.51	389.81	53.39	1.3	2229.84	452.13	1.68	2.81	2.49	4.15
HS-20	49	N	314.78	43.36	477.42	53.39	1.3	*2229.84	*452.13	1.35	2.26	2.63	4.39
HS-20	50	N	294.352	40.99	578.59	84.43	1.3	2342.47	644.78	1.20	2.00	2.48	4.15
HS-20	51	N	351.057	49.44	677.85	84.43	1.3	2740.68	691.43	1.19	1.99	2.63	4.40
HS-20	52	N	404.518	55.18	758.31	84.43	1.3	2740.68	691.43	1.04	1.73	2.60	4.34
HS-20	53	N	399.415	40.60	819.53	84.43	1.3	3433.86	446.09	1.26	2.10	1.65	2.76
HS-20	54	N	437.791	63.85	862.01	84.43	1.3	3127.10	735.69	1.05	1.76	2.74	4.57
HS-20	55	N	470.587	46.70	885.75	84.43	1.3	3127.10	735.69	1.01	1.68	2.83	4.73
HS-20	56	N	461.531	61.36	891.29	84.43	1.3	3127.10	735.69	1.01	1.68	2.75	4.60
HS-20	57	N	424.754	44.37	878.10	84.43	1.3	2642.63	484.92	**0.84**	1.41	1.79	2.99
HS-20	58	N	439.562	60.31	846.18	84.43	1.3	3127.10	735.69	1.07	1.79	2.76	4.61
HS-20	59	N	401.327	53.52	795.33	84.43	1.3	3127.10	735.69	1.16	1.94	2.80	4.67
HS-20	60	N	378.316	40.14	725.72	84.43	1.3	3433.86	446.09	1.44	2.40	1.65	2.76
HS-20	61	N	368.501	58.61	637.32	84.43	1.3	2740.68	691.43	1.26	2.10	2.58	4.31
HS-20	62	N	311.576	50.08	517.99	84.43	1.3	2342.47	644.78	1.33	2.21	2.43	4.06
HS-20	63	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	64	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	65	N	311.576	50.08	517.99	84.43	1.3	2642.63	484.92	1.53	2.56	1.76	2.94
HS-20	66	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	67	N	311.576	50.08	517.99	84.43	1.3	2342.47	644.78	1.33	2.21	2.43	4.06
HS-20	68	N	311.576	50.08	517.99	84.43	1.3	2342.47	644.78	1.33	2.21	2.43	4.06

North Bracket Floorbeams
HS-20 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment		Rating Factor - Shear	
			Moment	Shear	Moment	Shear		Moment	Shear	Inventory	Operating	Inventory	Operating
			k-ft	k	k-ft	k		k-ft	k				
HS-20	69	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	70	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	71	N	311.576	50.08	517.99	84.43	1.3	2229.84	452.13	1.25	2.08	1.63	2.71
HS-20	72	N	311.576	50.08	517.99	84.43	1.3	2342.47	644.78	1.33	2.21	2.43	4.06
HS-20	73	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	74	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	75	N	311.576	50.08	517.99	84.43	1.3	*2362.62	*452.13	1.34	2.24	1.63	2.71
HS-20	76	N	311.576	50.08	517.99	84.43	1.3	*2362.62	*452.13	1.34	2.24	1.63	2.71
HS-20	77	N	311.576	50.08	517.99	84.43	1.3	*2362.62	*452.13	1.34	2.24	1.63	2.71
HS-20	78	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	79	N	311.576	50.08	517.99	84.43	1.3	2642.63	484.92	1.53	2.56	1.76	2.94
HS-20	80	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	81	N	311.576	50.08	517.99	84.43	1.3	2229.84	452.13	1.25	2.08	1.63	2.71
HS-20	82	N	311.576	50.08	517.99	84.43	1.3	2229.84	452.13	1.25	2.08	1.63	2.71
HS-20	83	N	311.576	50.08	517.99	84.43	1.3	2570.20	484.92	1.48	2.47	1.76	2.94
HS-20	84	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	85	N	311.576	50.08	517.99	84.43	1.3	2229.84	452.13	1.25	2.08	1.63	2.71
HS-20	86	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	87	N	311.576	50.08	517.99	84.43	1.3	2570.20	484.92	1.48	2.47	1.76	2.94
HS-20	88	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	89	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	90	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	91	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	92	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	93	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	94	N	311.576	50.08	517.99	84.43	1.3	*2362.62	*452.13	1.34	2.24	1.63	2.71
HS-20	95	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	96	N	311.576	50.08	517.99	84.43	1.3	3433.86	446.09	2.07	3.46	1.60	2.67
HS-20	97	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	98	N	311.576	50.08	517.99	84.43	1.3	2342.47	644.78	1.33	2.21	2.43	4.06
HS-20	99	N	311.576	50.08	517.99	84.43	1.3	2342.47	644.78	1.33	2.21	2.43	4.06
HS-20	100	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	101	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	102	N	311.576	50.08	517.99	84.43	1.3	2349.00	645.68	1.33	2.22	2.44	4.07
HS-20	103	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	104	N	311.576	50.08	517.99	84.43	1.3	2570.20	484.92	1.48	2.47	1.76	2.94
HS-20	105	N	311.576	50.08	517.99	84.43	1.3	2229.84	452.13	1.25	2.08	1.63	2.71
HS-20	106	N	311.576	50.08	517.99	84.43	1.3	2365.81	452.50	1.34	2.24	1.63	2.72
HS-20	107	N	311.576	50.08	517.99	84.43	1.3	2365.81	452.50	1.34	2.24	1.63	2.72
HS-20	108	N	311.576	50.08	517.99	84.43	1.3	2365.81	452.50	1.34	2.24	1.63	2.72
HS-20	109	N	311.576	50.08	517.99	84.43	1.3	*2229.84	*452.13	1.25	2.08	1.63	2.71
HS-20	110	N	287.203	39.16	517.99	84.43	1.3	2362.62	452.13	1.36	2.27	1.68	2.81
HS-20	111	N	301.9	32.38	609.59	84.43	1.3	3860.66	482.61	2.02	3.37	1.85	3.09
HS-20	112	N	334.932	44.08	694.02	84.43	1.3	*3860.66	*482.61	1.75	2.92	1.79	2.98
HS-20	113	N	401.528	58.27	777.11	84.43	1.3	*3860.66	*482.61	1.52	2.54	1.71	2.85
HS-20	114	N	384.213	35.28	860.20	84.43	1.3	3860.66	482.61	1.39	2.31	1.83	3.06
HS-20	115	N	422.459	50.52	943.42	84.43	1.3	*3860.66	*482.61	1.24	2.08	1.75	2.92
HS-20	116	N	470.911	55.78	1024.32	106.77	1.3	*3860.66	*482.61	1.12	1.88	1.36	2.27
HS-20	117	N	501.076	64.90	1085.54	106.77	1.3	*3860.66	*482.61	1.05	1.75	1.32	2.21
HS-20	118	N	535.154	62.87	1105.63	106.77	1.3	*3860.66	*482.61	1.01	1.69	1.33	2.22
HS-20	119	N	495.826	39.68	1084.55	106.77	1.3	3869.69	483.38	1.05	1.76	1.43	2.39
HS-20	120	N	458.371	39.81	1022.92	106.77	1.3	*3860.66	*482.61	1.13	1.89	1.43	2.39
HS-20	121	N	443.705	52.09	939.61	84.43	1.3	*3860.66	*482.61	1.24	2.07	1.74	2.91
HS-20	122	N	395.031	53.32	825.80	84.43	1.3	*3860.66	*482.61	1.44	2.40	1.74	2.90
HS-20	123	N	313.192	45.27	679.58	84.43	1.3	*3860.66	*482.61	1.80	3.01	1.78	2.97
HS-20	124	N	261.218	42.59	502.64	53.39	1.3	*3860.66	*482.61	2.48	4.15	2.84	4.74
HS-20	125	N	214.221	34.74	368.47	53.39	1.3	2342.47	644.78	1.99	3.31	3.98	6.65
HS-20	126	N	98.761	19.85	166.68	31.04	1.3	2362.62	452.13	4.75	7.93	4.87	8.13
										0.84	1.41	1.32	2.21
										57	57	117	117

North Bracket Floorbeams
2F1 TRUCK

***Assumed capacities**

Truck	Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
				Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
				k-ft	k	k-ft	k		k-ft	k		
HS-20	2F1	0	N	282.39	42.30	263.18	42.90	1.3	2229.84	452.13	4.19	5.48
HS-20	2F1	1	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	2	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	3	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
HS-20	2F1	4	N	282.39	42.30	263.18	42.90	1.3	*2362.62	*452.13	4.49	5.48
HS-20	2F1	5	N	282.39	42.30	263.18	42.90	1.3	*2362.62	*452.13	4.49	5.48
HS-20	2F1	6	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	7	N	282.39	42.30	263.18	42.90	1.3	2229.84	452.13	4.19	5.48
HS-20	2F1	8	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	9	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	10	N	282.39	42.30	263.18	42.90	1.3	*2362.62	*452.13	4.49	5.48
HS-20	2F1	11	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
HS-20	2F1	12	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
HS-20	2F1	13	N	282.39	42.30	263.18	42.90	1.3	2642.63	484.92	5.12	5.93
HS-20	2F1	14	N	282.39	42.30	263.18	42.90	1.3	*2362.62	*452.13	4.49	5.48
HS-20	2F1	15	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	16	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	17	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
HS-20	2F1	18	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	19	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	20	N	282.39	42.30	263.18	42.90	1.3	*2362.62	*452.13	4.49	5.48
HS-20	2F1	21	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	22	N	282.39	42.30	263.18	42.90	1.3	*2362.62	*452.13	4.49	5.48
HS-20	2F1	23	N	282.39	42.30	263.18	42.90	1.3	2642.63	484.92	5.12	5.93
HS-20	2F1	24	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	25	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	26	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	27	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	28	N	282.39	42.30	263.18	42.90	1.3	2229.84	452.13	4.19	5.48
HS-20	2F1	29	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	30	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
HS-20	2F1	31	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	32	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
HS-20	2F1	33	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
HS-20	2F1	34	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	35	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
HS-20	2F1	36	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	37	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
HS-20	2F1	38	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	39	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
HS-20	2F1	40	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
HS-20	2F1	41	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
HS-20	2F1	42	N	282.39	42.30	263.18	42.90	1.3	2642.63	484.92	5.12	5.93
HS-20	2F1	43	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
HS-20	2F1	44	N	264.265	31.36	260.72	42.90	1.3	2362.62	452.13	4.58	5.67
HS-20	2F1	45	N	283.125	43.21	251.98	27.24	1.3	2342.47	644.78	4.64	12.79
HS-20	2F1	46	N	257.829	31.27	238.50	27.24	1.3	2362.62	452.13	5.03	8.94
HS-20	2F1	47	N	283.172	44.21	219.06	27.24	1.3	2342.47	644.78	5.33	12.76
HS-20	2F1	48	N	292.85	59.51	197.80	27.24	1.3	2229.84	452.13	5.53	8.14
HS-20	2F1	49	N	314.78	43.36	242.51	27.24	1.3	*2229.84	*452.13	4.44	8.60
HS-20	2F1	50	N	294.352	40.99	293.97	42.90	1.3	2342.47	644.78	3.94	8.16
HS-20	2F1	51	N	351.057	49.44	344.40	42.90	1.3	2740.68	691.43	3.92	8.65
HS-20	2F1	52	N	404.518	55.18	385.28	42.90	1.3	2740.68	691.43	3.40	8.55
HS-20	2F1	53	N	399.415	40.60	416.39	42.90	1.3	3433.86	446.09	4.14	5.43
HS-20	2F1	54	N	437.791	63.85	437.98	42.90	1.3	3127.10	735.69	3.46	9.00
HS-20	2F1	55	N	470.587	46.70	450.04	42.90	1.3	3127.10	735.69	3.31	9.31
HS-20	2F1	56	N	461.531	61.36	452.85	42.90	1.3	3127.10	735.69	3.30	9.05
HS-20	2F1	57	N	424.754	44.37	446.15	42.90	1.3	2642.63	484.92	2.77	5.89
HS-20	2F1	58	N	439.562	60.31	429.93	42.90	1.3	3127.10	735.69	3.52	9.07
HS-20	2F1	59	N	401.327	53.52	404.09	42.90	1.3	3127.10	735.69	3.82	9.19
HS-20	2F1	60	N	378.316	40.14	368.73	42.90	1.3	3433.86	446.09	4.72	5.43
HS-20	2F1	61	N	368.501	58.61	323.81	42.90	1.3	2740.68	691.43	4.13	8.49
HS-20	2F1	62	N	311.576	50.08	263.18	42.90	1.3	2342.47	644.78	4.36	8.00
HS-20	2F1	63	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	64	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	65	N	311.576	50.08	263.18	42.90	1.3	2642.63	484.92	5.03	5.79
HS-20	2F1	66	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	67	N	311.576	50.08	263.18	42.90	1.3	2342.47	644.78	4.36	8.00
HS-20	2F1	68	N	311.576	50.08	263.18	42.90	1.3	2342.47	644.78	4.36	8.00

North Bracket Floorbeams
2F1 TRUCK

***Assumed capacities**

Truck	Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
				Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
				k-ft	k	k-ft	k		k-ft	k		
HS-20	2F1	69	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	70	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	71	N	311.576	50.08	263.18	42.90	1.3	2229.84	452.13	4.10	5.34
HS-20	2F1	72	N	311.576	50.08	263.18	42.90	1.3	2342.47	644.78	4.36	8.00
HS-20	2F1	73	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	74	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	75	N	311.576	50.08	263.18	42.90	1.3	*2362.62	*452.13	4.40	5.34
HS-20	2F1	76	N	311.576	50.08	263.18	42.90	1.3	*2362.62	*452.13	4.40	5.34
HS-20	2F1	77	N	311.576	50.08	263.18	42.90	1.3	*2362.62	*452.13	4.40	5.34
HS-20	2F1	78	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	79	N	311.576	50.08	263.18	42.90	1.3	2642.63	484.92	5.03	5.79
HS-20	2F1	80	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	81	N	311.576	50.08	263.18	42.90	1.3	2229.84	452.13	4.10	5.34
HS-20	2F1	82	N	311.576	50.08	263.18	42.90	1.3	2229.84	452.13	4.10	5.34
HS-20	2F1	83	N	311.576	50.08	263.18	42.90	1.3	2570.20	484.92	4.87	5.79
HS-20	2F1	84	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	85	N	311.576	50.08	263.18	42.90	1.3	2229.84	452.13	4.10	5.34
HS-20	2F1	86	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	87	N	311.576	50.08	263.18	42.90	1.3	2570.20	484.92	4.87	5.79
HS-20	2F1	88	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	89	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	90	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	91	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	92	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	93	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	94	N	311.576	50.08	263.18	42.90	1.3	*2362.62	*452.13	4.40	5.34
HS-20	2F1	95	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	96	N	311.576	50.08	263.18	42.90	1.3	3433.86	446.09	6.81	5.26
HS-20	2F1	97	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	98	N	311.576	50.08	263.18	42.90	1.3	2342.47	644.78	4.36	8.00
HS-20	2F1	99	N	311.576	50.08	263.18	42.90	1.3	2342.47	644.78	4.36	8.00
HS-20	2F1	100	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	101	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	102	N	311.576	50.08	263.18	42.90	1.3	2349.00	645.68	4.37	8.01
HS-20	2F1	103	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
HS-20	2F1	104	N	311.576	50.08	263.18	42.90	1.3	2570.20	484.92	4.87	5.79
HS-20	2F1	105	N	311.576	50.08	263.18	42.90	1.3	2229.84	452.13	4.10	5.34
HS-20	2F1	106	N	311.576	50.08	263.18	42.90	1.3	2365.81	452.50	4.41	5.34
HS-20	2F1	107	N	311.576	50.08	263.18	42.90	1.3	2365.81	452.50	4.41	5.34
HS-20	2F1	108	N	311.576	50.08	263.18	42.90	1.3	2365.81	452.50	4.41	5.34
HS-20	2F1	109	N	311.576	50.08	263.18	42.90	1.3	*2229.84	*452.13	4.10	5.34
HS-20	2F1	110	N	287.203	39.16	263.18	42.90	1.3	2362.62	452.13	4.47	5.53
HS-20	2F1	111	N	301.9	32.38	309.72	42.90	1.3	3860.66	482.61	6.63	6.08
HS-20	2F1	112	N	334.932	44.08	352.62	42.90	1.3	*3860.66	*482.61	5.75	5.87
HS-20	2F1	113	N	401.528	58.27	394.84	42.90	1.3	*3860.66	*482.61	5.00	5.61
HS-20	2F1	114	N	384.213	35.28	437.05	42.90	1.3	3860.66	482.61	4.55	6.02
HS-20	2F1	115	N	422.459	50.52	479.34	42.90	1.3	*3860.66	*482.61	4.09	5.75
HS-20	2F1	116	N	470.911	55.78	520.47	54.48	1.3	*3860.66	*482.61	3.69	4.45
HS-20	2F1	117	N	501.076	64.90	551.71	54.48	1.3	*3860.66	*482.61	3.44	4.33
HS-20	2F1	118	N	535.154	62.87	561.95	54.48	1.3	*3860.66	*482.61	3.33	4.35
HS-20	2F1	119	N	495.826	39.68	551.20	54.48	1.3	3869.69	483.38	3.46	4.69
HS-20	2F1	120	N	458.371	39.81	519.75	54.48	1.3	*3860.66	*482.61	3.72	4.68
HS-20	2F1	121	N	443.705	52.09	477.40	42.90	1.3	*3860.66	*482.61	4.07	5.72
HS-20	2F1	122	N	395.031	53.32	419.58	42.90	1.3	*3860.66	*482.61	4.72	5.70
HS-20	2F1	123	N	313.192	45.27	345.28	42.90	1.3	*3860.66	*482.61	5.92	5.85
HS-20	2F1	124	N	261.218	42.59	255.38	27.24	1.3	*3860.66	*482.61	8.16	9.28
HS-20	2F1	125	N	214.221	34.74	186.91	27.24	1.3	2342.47	644.78	6.53	13.02
HS-20	2F1	126	N	98.761	19.85	84.06	15.65	1.3	2362.62	452.13	15.73	16.11
											2.77	4.33
											57	117

North Bracket Floorbeams
3F1 TRUCK ***Assumed capacities**

Truck	Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
				Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
				k-ft	k	k-ft	k		k-ft	k		
HS-20	3F1	0	N	282.39	42.30	400.75	65.32	1.3	2229.84	452.13	2.75	3.60
HS-20	3F1	1	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	2	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	3	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
HS-20	3F1	4	N	282.39	42.30	400.75	65.32	1.3	*2362.62	*452.13	2.95	3.60
HS-20	3F1	5	N	282.39	42.30	400.75	65.32	1.3	*2362.62	*452.13	2.95	3.60
HS-20	3F1	6	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	7	N	282.39	42.30	400.75	65.32	1.3	2229.84	452.13	2.75	3.60
HS-20	3F1	8	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	9	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	10	N	282.39	42.30	400.75	65.32	1.3	*2362.62	*452.13	2.95	3.60
HS-20	3F1	11	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
HS-20	3F1	12	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
HS-20	3F1	13	N	282.39	42.30	400.75	65.32	1.3	2642.63	484.92	3.36	3.89
HS-20	3F1	14	N	282.39	42.30	400.75	65.32	1.3	*2362.62	*452.13	2.95	3.60
HS-20	3F1	15	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	16	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	17	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
HS-20	3F1	18	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	19	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	20	N	282.39	42.30	400.75	65.32	1.3	*2362.62	*452.13	2.95	3.60
HS-20	3F1	21	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	22	N	282.39	42.30	400.75	65.32	1.3	*2362.62	*452.13	2.95	3.60
HS-20	3F1	23	N	282.39	42.30	400.75	65.32	1.3	2642.63	484.92	3.36	3.89
HS-20	3F1	24	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	25	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	26	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	27	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	28	N	282.39	42.30	400.75	65.32	1.3	2229.84	452.13	2.75	3.60
HS-20	3F1	29	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	30	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
HS-20	3F1	31	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	32	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
HS-20	3F1	33	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
HS-20	3F1	34	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	35	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
HS-20	3F1	36	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	37	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
HS-20	3F1	38	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	39	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
HS-20	3F1	40	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
HS-20	3F1	41	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
HS-20	3F1	42	N	282.39	42.30	400.75	65.32	1.3	2642.63	484.92	3.36	3.89
HS-20	3F1	43	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
HS-20	3F1	44	N	264.265	31.36	397.02	65.32	1.3	2362.62	452.13	3.01	3.73
HS-20	3F1	45	N	283.125	43.21	383.74	41.30	1.3	2342.47	644.78	3.04	8.43
HS-20	3F1	46	N	257.829	31.27	363.30	41.30	1.3	2362.62	452.13	3.30	5.90
HS-20	3F1	47	N	283.172	44.21	333.84	41.30	1.3	2342.47	644.78	3.50	8.42
HS-20	3F1	48	N	292.85	59.51	301.60	41.30	1.3	2229.84	452.13	3.63	5.37
HS-20	3F1	49	N	314.78	43.36	369.38	41.30	1.3	*2229.84	*452.13	2.92	5.67
HS-20	3F1	50	N	294.352	40.99	447.64	65.32	1.3	2342.47	644.78	2.59	5.36
HS-20	3F1	51	N	351.057	49.44	524.44	65.32	1.3	2740.68	691.43	2.58	5.68
HS-20	3F1	52	N	404.518	55.18	586.69	65.32	1.3	2740.68	691.43	2.23	5.61
HS-20	3F1	53	N	399.415	40.60	634.05	65.32	1.3	3433.86	446.09	2.72	3.56
HS-20	3F1	54	N	437.791	63.85	666.92	65.32	1.3	3127.10	735.69	2.27	5.91
HS-20	3F1	55	N	470.587	46.70	685.29	65.32	1.3	3127.10	735.69	2.17	6.11
HS-20	3F1	56	N	461.531	61.36	689.58	65.32	1.3	3127.10	735.69	2.17	5.94
HS-20	3F1	57	N	424.754	44.37	679.37	65.32	1.3	2642.63	484.92	1.82	3.87
HS-20	3F1	58	N	439.562	60.31	654.68	65.32	1.3	3127.10	735.69	2.31	5.95
HS-20	3F1	59	N	401.327	53.52	615.33	65.32	1.3	3127.10	735.69	2.51	6.03
HS-20	3F1	60	N	378.316	40.14	561.47	65.32	1.3	3433.86	446.09	3.10	3.57
HS-20	3F1	61	N	368.501	58.61	493.08	65.32	1.3	2740.68	691.43	2.71	5.57
HS-20	3F1	62	N	311.576	50.08	400.76	65.32	1.3	2342.47	644.78	2.86	5.25
HS-20	3F1	63	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	64	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	65	N	311.576	50.08	400.76	65.32	1.3	2642.63	484.92	3.30	3.80
HS-20	3F1	66	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	67	N	311.576	50.08	400.76	65.32	1.3	2342.47	644.78	2.86	5.25
HS-20	3F1	68	N	311.576	50.08	400.76	65.32	1.3	2342.47	644.78	2.86	5.25

North Bracket Floorbeams
3F1 TRUCK ***Assumed capacities**

Truck	Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
				Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
				k-ft	k	k-ft	k		k-ft	k		
HS-20	3F1	69	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	70	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	71	N	311.576	50.08	400.76	65.32	1.3	2229.84	452.13	2.69	3.51
HS-20	3F1	72	N	311.576	50.08	400.76	65.32	1.3	2342.47	644.78	2.86	5.25
HS-20	3F1	73	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	74	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	75	N	311.576	50.08	400.76	65.32	1.3	*2362.62	*452.13	2.89	3.51
HS-20	3F1	76	N	311.576	50.08	400.76	65.32	1.3	*2362.62	*452.13	2.89	3.51
HS-20	3F1	77	N	311.576	50.08	400.76	65.32	1.3	*2362.62	*452.13	2.89	3.51
HS-20	3F1	78	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	79	N	311.576	50.08	400.76	65.32	1.3	2642.63	484.92	3.30	3.80
HS-20	3F1	80	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	81	N	311.576	50.08	400.76	65.32	1.3	2229.84	452.13	2.69	3.51
HS-20	3F1	82	N	311.576	50.08	400.76	65.32	1.3	2229.84	452.13	2.69	3.51
HS-20	3F1	83	N	311.576	50.08	400.76	65.32	1.3	2570.20	484.92	3.20	3.80
HS-20	3F1	84	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	85	N	311.576	50.08	400.76	65.32	1.3	2229.84	452.13	2.69	3.51
HS-20	3F1	86	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	87	N	311.576	50.08	400.76	65.32	1.3	2570.20	484.92	3.20	3.80
HS-20	3F1	88	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	89	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	90	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	91	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	92	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	93	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	94	N	311.576	50.08	400.76	65.32	1.3	*2362.62	*452.13	2.89	3.51
HS-20	3F1	95	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	96	N	311.576	50.08	400.76	65.32	1.3	3433.86	446.09	4.47	3.45
HS-20	3F1	97	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	98	N	311.576	50.08	400.76	65.32	1.3	2342.47	644.78	2.86	5.25
HS-20	3F1	99	N	311.576	50.08	400.76	65.32	1.3	2342.47	644.78	2.86	5.25
HS-20	3F1	100	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	101	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	102	N	311.576	50.08	400.76	65.32	1.3	2349.00	645.68	2.87	5.26
HS-20	3F1	103	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
HS-20	3F1	104	N	311.576	50.08	400.76	65.32	1.3	2570.20	484.92	3.20	3.80
HS-20	3F1	105	N	311.576	50.08	400.76	65.32	1.3	2229.84	452.13	2.69	3.51
HS-20	3F1	106	N	311.576	50.08	400.76	65.32	1.3	2365.81	452.50	2.90	3.51
HS-20	3F1	107	N	311.576	50.08	400.76	65.32	1.3	2365.81	452.50	2.90	3.51
HS-20	3F1	108	N	311.576	50.08	400.76	65.32	1.3	2365.81	452.50	2.90	3.51
HS-20	3F1	109	N	311.576	50.08	400.76	65.32	1.3	*2229.84	*452.13	2.69	3.51
HS-20	3F1	110	N	287.203	39.16	400.76	65.32	1.3	2362.62	452.13	2.94	3.63
HS-20	3F1	111	N	301.9	32.38	471.63	65.32	1.3	3860.66	482.61	4.35	3.99
HS-20	3F1	112	N	334.932	44.08	536.95	65.32	1.3	*3860.66	*482.61	3.77	3.85
HS-20	3F1	113	N	401.528	58.27	601.23	65.32	1.3	*3860.66	*482.61	3.29	3.69
HS-20	3F1	114	N	384.213	35.28	665.52	65.32	1.3	3860.66	482.61	2.99	3.96
HS-20	3F1	115	N	422.459	50.52	729.91	65.32	1.3	*3860.66	*482.61	2.68	3.78
HS-20	3F1	116	N	470.911	55.78	792.50	82.59	1.3	*3860.66	*482.61	2.43	2.94
HS-20	3F1	117	N	501.076	64.90	839.85	82.59	1.3	*3860.66	*482.61	2.26	2.85
HS-20	3F1	118	N	535.154	62.87	855.39	82.59	1.3	*3860.66	*482.61	2.19	2.87
HS-20	3F1	119	N	495.826	39.68	839.09	82.59	1.3	3869.69	483.38	2.27	3.09
HS-20	3F1	120	N	458.371	39.81	791.41	82.59	1.3	*3860.66	*482.61	2.44	3.09
HS-20	3F1	121	N	443.705	52.09	726.96	65.32	1.3	*3860.66	*482.61	2.67	3.76
HS-20	3F1	122	N	395.031	53.32	638.91	65.32	1.3	*3860.66	*482.61	3.10	3.74
HS-20	3F1	123	N	313.192	45.27	525.78	65.32	1.3	*3860.66	*482.61	3.89	3.84
HS-20	3F1	124	N	261.218	42.59	388.89	41.30	1.3	*3860.66	*482.61	5.36	6.12
HS-20	3F1	125	N	214.221	34.74	285.10	41.30	1.3	2342.47	644.78	4.28	8.59
HS-20	3F1	126	N	98.761	19.85	129.00	24.02	1.3	2362.62	452.13	10.25	10.50
											1.82	2.85
											57	117

North Bracket Floorbeams
4F1 TRUCK

***Assumed capacities**

Truck	Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
				Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
				k-ft	k	k-ft	k		k-ft	k		
HS-20	4F1	0	N	282.39	42.30	452.80	73.80	1.3	2229.84	452.13	2.43	3.18
HS-20	4F1	1	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	2	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	3	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
HS-20	4F1	4	N	282.39	42.30	452.80	73.80	1.3	*2362.62	*452.13	2.61	3.18
HS-20	4F1	5	N	282.39	42.30	452.80	73.80	1.3	*2362.62	*452.13	2.61	3.18
HS-20	4F1	6	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	7	N	282.39	42.30	452.80	73.80	1.3	2229.84	452.13	2.43	3.18
HS-20	4F1	8	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	9	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	10	N	282.39	42.30	452.80	73.80	1.3	*2362.62	*452.13	2.61	3.18
HS-20	4F1	11	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
HS-20	4F1	12	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
HS-20	4F1	13	N	282.39	42.30	452.80	73.80	1.3	2642.63	484.92	2.97	3.45
HS-20	4F1	14	N	282.39	42.30	452.80	73.80	1.3	*2362.62	*452.13	2.61	3.18
HS-20	4F1	15	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	16	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	17	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
HS-20	4F1	18	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	19	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	20	N	282.39	42.30	452.80	73.80	1.3	*2362.62	*452.13	2.61	3.18
HS-20	4F1	21	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	22	N	282.39	42.30	452.80	73.80	1.3	*2362.62	*452.13	2.61	3.18
HS-20	4F1	23	N	282.39	42.30	452.80	73.80	1.3	2642.63	484.92	2.97	3.45
HS-20	4F1	24	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	25	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	26	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	27	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	28	N	282.39	42.30	452.80	73.80	1.3	2229.84	452.13	2.43	3.18
HS-20	4F1	29	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	30	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
HS-20	4F1	31	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	32	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
HS-20	4F1	33	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
HS-20	4F1	34	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	35	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
HS-20	4F1	36	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	37	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
HS-20	4F1	38	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	39	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
HS-20	4F1	40	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
HS-20	4F1	41	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
HS-20	4F1	42	N	282.39	42.30	452.80	73.80	1.3	2642.63	484.92	2.97	3.45
HS-20	4F1	43	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
HS-20	4F1	44	N	264.265	31.36	448.58	73.80	1.3	2362.62	452.13	2.66	3.30
HS-20	4F1	45	N	283.125	43.21	433.58	46.67	1.3	2342.47	644.78	2.69	7.46
HS-20	4F1	46	N	257.829	31.27	410.49	46.67	1.3	2362.62	452.13	2.92	5.22
HS-20	4F1	47	N	283.172	44.21	377.19	46.67	1.3	2342.47	644.78	3.10	7.45
HS-20	4F1	48	N	292.85	59.51	340.76	46.67	1.3	2229.84	452.13	3.21	4.75
HS-20	4F1	49	N	314.78	43.36	417.35	46.67	1.3	*2229.84	*452.13	2.58	5.02
HS-20	4F1	50	N	294.352	40.99	505.79	73.80	1.3	2342.47	644.78	2.29	4.74
HS-20	4F1	51	N	351.057	49.44	592.56	73.80	1.3	2740.68	691.43	2.28	5.03
HS-20	4F1	52	N	404.518	55.18	662.89	73.80	1.3	2740.68	691.43	1.98	4.97
HS-20	4F1	53	N	399.415	40.60	716.41	73.80	1.3	3433.86	446.09	2.41	3.15
HS-20	4F1	54	N	437.791	63.85	753.55	73.80	1.3	3127.10	735.69	2.01	5.23
HS-20	4F1	55	N	470.587	46.70	774.30	73.80	1.3	3127.10	735.69	1.92	5.41
HS-20	4F1	56	N	461.531	61.36	779.14	73.80	1.3	3127.10	735.69	1.92	5.26
HS-20	4F1	57	N	424.754	44.37	767.61	73.80	1.3	2642.63	484.92	1.61	3.43
HS-20	4F1	58	N	439.562	60.31	739.71	73.80	1.3	3127.10	735.69	2.04	5.27
HS-20	4F1	59	N	401.327	53.52	695.25	73.80	1.3	3127.10	735.69	2.22	5.34
HS-20	4F1	60	N	378.316	40.14	634.40	73.80	1.3	3433.86	446.09	2.74	3.16
HS-20	4F1	61	N	368.501	58.61	557.12	73.80	1.3	2740.68	691.43	2.40	4.93
HS-20	4F1	62	N	311.576	50.08	452.81	73.80	1.3	2342.47	644.78	2.53	4.65
HS-20	4F1	63	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	64	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	65	N	311.576	50.08	452.81	73.80	1.3	2642.63	484.92	2.92	3.37
HS-20	4F1	66	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	67	N	311.576	50.08	452.81	73.80	1.3	2342.47	644.78	2.53	4.65
HS-20	4F1	68	N	311.576	50.08	452.81	73.80	1.3	2342.47	644.78	2.53	4.65

North Bracket Floorbeams
4F1 TRUCK ***Assumed capacities**

Truck	Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
				Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
				k-ft	k	k-ft	k		k-ft	k		
HS-20	4F1	69	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	70	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	71	N	311.576	50.08	452.81	73.80	1.3	2229.84	452.13	2.38	3.10
HS-20	4F1	72	N	311.576	50.08	452.81	73.80	1.3	2342.47	644.78	2.53	4.65
HS-20	4F1	73	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	74	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	75	N	311.576	50.08	452.81	73.80	1.3	*2362.62	*452.13	2.56	3.10
HS-20	4F1	76	N	311.576	50.08	452.81	73.80	1.3	*2362.62	*452.13	2.56	3.10
HS-20	4F1	77	N	311.576	50.08	452.81	73.80	1.3	*2362.62	*452.13	2.56	3.10
HS-20	4F1	78	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	79	N	311.576	50.08	452.81	73.80	1.3	2642.63	484.92	2.92	3.37
HS-20	4F1	80	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	81	N	311.576	50.08	452.81	73.80	1.3	2229.84	452.13	2.38	3.10
HS-20	4F1	82	N	311.576	50.08	452.81	73.80	1.3	2229.84	452.13	2.38	3.10
HS-20	4F1	83	N	311.576	50.08	452.81	73.80	1.3	2570.20	484.92	2.83	3.37
HS-20	4F1	84	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	85	N	311.576	50.08	452.81	73.80	1.3	2229.84	452.13	2.38	3.10
HS-20	4F1	86	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	87	N	311.576	50.08	452.81	73.80	1.3	2570.20	484.92	2.83	3.37
HS-20	4F1	88	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	89	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	90	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	91	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	92	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	93	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	94	N	311.576	50.08	452.81	73.80	1.3	*2362.62	*452.13	2.56	3.10
HS-20	4F1	95	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	96	N	311.576	50.08	452.81	73.80	1.3	3433.86	446.09	3.96	3.05
HS-20	4F1	97	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	98	N	311.576	50.08	452.81	73.80	1.3	2342.47	644.78	2.53	4.65
HS-20	4F1	99	N	311.576	50.08	452.81	73.80	1.3	2342.47	644.78	2.53	4.65
HS-20	4F1	100	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	101	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	102	N	311.576	50.08	452.81	73.80	1.3	2349.00	645.68	2.54	4.65
HS-20	4F1	103	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
HS-20	4F1	104	N	311.576	50.08	452.81	73.80	1.3	2570.20	484.92	2.83	3.37
HS-20	4F1	105	N	311.576	50.08	452.81	73.80	1.3	2229.84	452.13	2.38	3.10
HS-20	4F1	106	N	311.576	50.08	452.81	73.80	1.3	2365.81	452.50	2.56	3.11
HS-20	4F1	107	N	311.576	50.08	452.81	73.80	1.3	2365.81	452.50	2.56	3.11
HS-20	4F1	108	N	311.576	50.08	452.81	73.80	1.3	2365.81	452.50	2.56	3.11
HS-20	4F1	109	N	311.576	50.08	452.81	73.80	1.3	*2229.84	*452.13	2.38	3.10
HS-20	4F1	110	N	287.203	39.16	452.81	73.80	1.3	2362.62	452.13	2.60	3.22
HS-20	4F1	111	N	301.9	32.38	532.89	73.80	1.3	3860.66	482.61	3.85	3.53
HS-20	4F1	112	N	334.932	44.08	606.70	73.80	1.3	*3860.66	*482.61	3.34	3.41
HS-20	4F1	113	N	401.528	58.27	679.33	73.80	1.3	*3860.66	*482.61	2.91	3.26
HS-20	4F1	114	N	384.213	35.28	751.96	73.80	1.3	3860.66	482.61	2.64	3.50
HS-20	4F1	115	N	422.459	50.52	824.72	73.80	1.3	*3860.66	*482.61	2.38	3.34
HS-20	4F1	116	N	470.911	55.78	895.43	93.33	1.3	*3860.66	*482.61	2.15	2.60
HS-20	4F1	117	N	501.076	64.90	948.95	93.33	1.3	*3860.66	*482.61	2.00	2.52
HS-20	4F1	118	N	535.154	62.87	966.51	93.33	1.3	*3860.66	*482.61	1.94	2.54
HS-20	4F1	119	N	495.826	39.68	948.08	93.33	1.3	3869.69	483.38	2.01	2.74
HS-20	4F1	120	N	458.371	39.81	894.21	93.33	1.3	*3860.66	*482.61	2.16	2.73
HS-20	4F1	121	N	443.705	52.09	821.38	73.80	1.3	*3860.66	*482.61	2.37	3.33
HS-20	4F1	122	N	395.031	53.32	721.89	73.80	1.3	*3860.66	*482.61	2.74	3.31
HS-20	4F1	123	N	313.192	45.27	594.07	73.80	1.3	*3860.66	*482.61	3.44	3.40
HS-20	4F1	124	N	261.218	42.59	439.40	46.67	1.3	*3860.66	*482.61	4.74	5.42
HS-20	4F1	125	N	214.221	34.74	322.11	46.67	1.3	2342.47	644.78	3.79	7.60
HS-20	4F1	126	N	98.761	19.85	145.71	27.14	1.3	2362.62	452.13	9.07	9.30
											1.61	2.52
											57	117

North Bracket Floorbeams
5C1 TRUCK

***Assumed capacities**

Truck	Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
				Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
				k-ft	k	k-ft	k		k-ft	k		
HS-20	5C1	0	N	282.39	42.30	387.49	63.16	1.3	2229.84	452.13	2.84	3.72
HS-20	5C1	1	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	2	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	3	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
HS-20	5C1	4	N	282.39	42.30	387.49	63.16	1.3	*2362.62	*452.13	3.05	3.72
HS-20	5C1	5	N	282.39	42.30	387.49	63.16	1.3	*2362.62	*452.13	3.05	3.72
HS-20	5C1	6	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	7	N	282.39	42.30	387.49	63.16	1.3	2229.84	452.13	2.84	3.72
HS-20	5C1	8	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	9	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	10	N	282.39	42.30	387.49	63.16	1.3	*2362.62	*452.13	3.05	3.72
HS-20	5C1	11	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
HS-20	5C1	12	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
HS-20	5C1	13	N	282.39	42.30	387.49	63.16	1.3	2642.63	484.92	3.47	4.03
HS-20	5C1	14	N	282.39	42.30	387.49	63.16	1.3	*2362.62	*452.13	3.05	3.72
HS-20	5C1	15	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	16	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	17	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
HS-20	5C1	18	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	19	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	20	N	282.39	42.30	387.49	63.16	1.3	*2362.62	*452.13	3.05	3.72
HS-20	5C1	21	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	22	N	282.39	42.30	387.49	63.16	1.3	*2362.62	*452.13	3.05	3.72
HS-20	5C1	23	N	282.39	42.30	387.49	63.16	1.3	2642.63	484.92	3.47	4.03
HS-20	5C1	24	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	25	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	26	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	27	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	28	N	282.39	42.30	387.49	63.16	1.3	2229.84	452.13	2.84	3.72
HS-20	5C1	29	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	30	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
HS-20	5C1	31	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	32	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
HS-20	5C1	33	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
HS-20	5C1	34	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	35	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
HS-20	5C1	36	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	37	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
HS-20	5C1	38	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	39	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
HS-20	5C1	40	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
HS-20	5C1	41	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
HS-20	5C1	42	N	282.39	42.30	387.49	63.16	1.3	2642.63	484.92	3.47	4.03
HS-20	5C1	43	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
HS-20	5C1	44	N	264.265	31.36	383.87	63.16	1.3	2362.62	452.13	3.11	3.85
HS-20	5C1	45	N	283.125	43.21	371.03	39.93	1.3	2342.47	644.78	3.15	8.72
HS-20	5C1	46	N	257.829	31.27	351.28	39.93	1.3	2362.62	452.13	3.42	6.10
HS-20	5C1	47	N	283.172	44.21	322.79	39.93	1.3	2342.47	644.78	3.62	8.70
HS-20	5C1	48	N	292.85	59.51	291.62	39.93	1.3	2229.84	452.13	3.75	5.55
HS-20	5C1	49	N	314.78	43.36	357.15	39.93	1.3	*2229.84	*452.13	3.02	5.87
HS-20	5C1	50	N	294.352	40.99	432.83	63.16	1.3	2342.47	644.78	2.68	5.54
HS-20	5C1	51	N	351.057	49.44	507.08	63.16	1.3	2740.68	691.43	2.67	5.88
HS-20	5C1	52	N	404.518	55.18	567.27	63.16	1.3	2740.68	691.43	2.31	5.81
HS-20	5C1	53	N	399.415	40.60	613.07	63.16	1.3	3433.86	446.09	2.81	3.68
HS-20	5C1	54	N	437.791	63.85	644.85	63.16	1.3	3127.10	735.69	2.35	6.12
HS-20	5C1	55	N	470.587	46.70	662.61	63.16	1.3	3127.10	735.69	2.25	6.32
HS-20	5C1	56	N	461.531	61.36	666.75	63.16	1.3	3127.10	735.69	2.24	6.15
HS-20	5C1	57	N	424.754	44.37	656.88	63.16	1.3	2642.63	484.92	1.88	4.00
HS-20	5C1	58	N	439.562	60.31	633.01	63.16	1.3	3127.10	735.69	2.39	6.16
HS-20	5C1	59	N	401.327	53.52	594.96	63.16	1.3	3127.10	735.69	2.59	6.24
HS-20	5C1	60	N	378.316	40.14	542.89	63.16	1.3	3433.86	446.09	3.21	3.69
HS-20	5C1	61	N	368.501	58.61	476.76	63.16	1.3	2740.68	691.43	2.81	5.76
HS-20	5C1	62	N	311.576	50.08	387.49	63.16	1.3	2342.47	644.78	2.96	5.43
HS-20	5C1	63	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	64	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	65	N	311.576	50.08	387.49	63.16	1.3	2642.63	484.92	3.42	3.93
HS-20	5C1	66	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	67	N	311.576	50.08	387.49	63.16	1.3	2342.47	644.78	2.96	5.43
HS-20	5C1	68	N	311.576	50.08	387.49	63.16	1.3	2342.47	644.78	2.96	5.43

North Bracket Floorbeams
5C1 TRUCK

***Assumed capacities**

Truck	Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
				Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
				k-ft	k	k-ft	k		k-ft	k		
HS-20	5C1	69	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	70	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	71	N	311.576	50.08	387.49	63.16	1.3	2229.84	452.13	2.79	3.63
HS-20	5C1	72	N	311.576	50.08	387.49	63.16	1.3	2342.47	644.78	2.96	5.43
HS-20	5C1	73	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	74	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	75	N	311.576	50.08	387.49	63.16	1.3	*2362.62	*452.13	2.99	3.63
HS-20	5C1	76	N	311.576	50.08	387.49	63.16	1.3	*2362.62	*452.13	2.99	3.63
HS-20	5C1	77	N	311.576	50.08	387.49	63.16	1.3	*2362.62	*452.13	2.99	3.63
HS-20	5C1	78	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	79	N	311.576	50.08	387.49	63.16	1.3	2642.63	484.92	3.42	3.93
HS-20	5C1	80	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	81	N	311.576	50.08	387.49	63.16	1.3	2229.84	452.13	2.79	3.63
HS-20	5C1	82	N	311.576	50.08	387.49	63.16	1.3	2229.84	452.13	2.79	3.63
HS-20	5C1	83	N	311.576	50.08	387.49	63.16	1.3	2570.20	484.92	3.31	3.93
HS-20	5C1	84	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	85	N	311.576	50.08	387.49	63.16	1.3	2229.84	452.13	2.79	3.63
HS-20	5C1	86	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	87	N	311.576	50.08	387.49	63.16	1.3	2570.20	484.92	3.31	3.93
HS-20	5C1	88	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	89	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	90	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	91	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	92	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	93	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	94	N	311.576	50.08	387.49	63.16	1.3	*2362.62	*452.13	2.99	3.63
HS-20	5C1	95	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	96	N	311.576	50.08	387.49	63.16	1.3	3433.86	446.09	4.63	3.57
HS-20	5C1	97	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	98	N	311.576	50.08	387.49	63.16	1.3	2342.47	644.78	2.96	5.43
HS-20	5C1	99	N	311.576	50.08	387.49	63.16	1.3	2342.47	644.78	2.96	5.43
HS-20	5C1	100	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	101	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	102	N	311.576	50.08	387.49	63.16	1.3	2349.00	645.68	2.97	5.44
HS-20	5C1	103	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
HS-20	5C1	104	N	311.576	50.08	387.49	63.16	1.3	2570.20	484.92	3.31	3.93
HS-20	5C1	105	N	311.576	50.08	387.49	63.16	1.3	2229.84	452.13	2.79	3.63
HS-20	5C1	106	N	311.576	50.08	387.49	63.16	1.3	2365.81	452.50	2.99	3.63
HS-20	5C1	107	N	311.576	50.08	387.49	63.16	1.3	2365.81	452.50	2.99	3.63
HS-20	5C1	108	N	311.576	50.08	387.49	63.16	1.3	2365.81	452.50	2.99	3.63
HS-20	5C1	109	N	311.576	50.08	387.49	63.16	1.3	*2229.84	*452.13	2.79	3.63
HS-20	5C1	110	N	287.203	39.16	387.49	63.16	1.3	2362.62	452.13	3.04	3.76
HS-20	5C1	111	N	301.9	32.38	456.02	63.16	1.3	3860.66	482.61	4.50	4.13
HS-20	5C1	112	N	334.932	44.08	519.18	63.16	1.3	*3860.66	*482.61	3.90	3.98
HS-20	5C1	113	N	401.528	58.27	581.33	63.16	1.3	*3860.66	*482.61	3.40	3.81
HS-20	5C1	114	N	384.213	35.28	643.49	63.16	1.3	3860.66	482.61	3.09	4.09
HS-20	5C1	115	N	422.459	50.52	705.75	63.16	1.3	*3860.66	*482.61	2.78	3.91
HS-20	5C1	116	N	470.911	55.78	766.26	79.86	1.3	*3860.66	*482.61	2.51	3.04
HS-20	5C1	117	N	501.076	64.90	812.05	79.86	1.3	*3860.66	*482.61	2.34	2.95
HS-20	5C1	118	N	535.154	62.87	827.08	79.86	1.3	*3860.66	*482.61	2.26	2.97
HS-20	5C1	119	N	495.826	39.68	811.31	79.86	1.3	3869.69	483.38	2.35	3.20
HS-20	5C1	120	N	458.371	39.81	765.22	79.86	1.3	*3860.66	*482.61	2.52	3.19
HS-20	5C1	121	N	443.705	52.09	702.89	63.16	1.3	*3860.66	*482.61	2.76	3.89
HS-20	5C1	122	N	395.031	53.32	617.76	63.16	1.3	*3860.66	*482.61	3.21	3.87
HS-20	5C1	123	N	313.192	45.27	508.37	63.16	1.3	*3860.66	*482.61	4.02	3.97
HS-20	5C1	124	N	261.218	42.59	376.01	39.93	1.3	*3860.66	*482.61	5.54	6.33
HS-20	5C1	125	N	214.221	34.74	275.66	39.93	1.3	2342.47	644.78	4.43	8.89
HS-20	5C1	126	N	98.761	19.85	124.73	23.23	1.3	2362.62	452.13	10.60	10.86
											1.88	2.95
											57	117

South Bracket Floorbeams
HS-20 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment		Rating Factor - Shear	
			Moment	Shear	Moment	Shear		Moment	Shear	Inventory	Operating	Inventory	Operating
			k-ft	k	k-ft	k		k-ft	k				
HS-20	0	S	273.60	41.68	496.47	80.10	1.30	2229.84	452.13	1.34	2.23	1.76	2.94
HS-20	1	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	2	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	3	S	273.60	41.68	496.47	80.10	1.30	2342.47	644.78	1.42	2.37	2.61	4.36
HS-20	4	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	5	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	6	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	7	S	273.60	41.68	496.47	80.10	1.30	2229.84	452.13	1.34	2.23	1.76	2.94
HS-20	8	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	9	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	10	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	11	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	12	S	273.60	41.68	496.47	80.10	1.30	2342.47	644.78	1.42	2.37	2.61	4.36
HS-20	13	S	273.60	41.68	496.47	80.10	1.30	2570.20	484.92	1.58	2.64	1.91	3.18
HS-20	14	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	15	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	16	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	17	S	273.60	41.68	496.47	80.10	1.30	2342.47	644.78	1.42	2.37	2.61	4.36
HS-20	18	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	19	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	20	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	21	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	22	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	23	S	273.60	41.68	496.47	80.10	1.30	2570.20	484.92	1.58	2.64	1.91	3.18
HS-20	24	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	25	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	26	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	27	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	28	S	273.60	41.68	496.47	80.10	1.30	2229.84	452.13	1.34	2.23	1.76	2.94
HS-20	29	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	30	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	31	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	32	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	33	S	273.60	41.68	496.47	80.10	1.30	2342.47	644.78	1.42	2.37	2.61	4.36
HS-20	34	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	35	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	36	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	37	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	38	S	273.60	41.68	496.47	80.10	1.30	2342.47	644.78	1.42	2.37	2.61	4.36
HS-20	39	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	40	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	41	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	42	S	273.60	41.68	496.47	80.10	1.30	2642.63	484.92	1.63	2.73	1.91	3.18
HS-20	43	S	273.60	41.68	496.47	80.10	1.30	2342.47	644.78	1.42	2.37	2.61	4.36
HS-20	44	S	274.85	41.93	496.47	80.10	1.30	2342.47	644.78	1.42	2.37	2.61	4.36
HS-20	45	S	258.65	30.86	519.42	80.10	1.30	2362.62	452.13	1.38	2.31	1.82	3.04
HS-20	46	S	286.61	43.30	560.72	80.10	1.30	2740.68	691.43	1.50	2.50	2.81	4.69
HS-20	47	S	278.34	41.08	620.80	80.10	1.30	2740.68	691.43	1.36	2.27	2.82	4.71
HS-20	48	S	275.41	37.60	691.43	80.10	1.30	2229.84	452.13	**0.96**	1.60	1.78	2.98
HS-20	49	S	275.35	37.12	626.78	80.10	1.30	2342.47	644.78	1.12	1.87	2.64	4.41
HS-20	50	S	261.99	30.54	492.18	80.10	1.30	2362.62	452.13	1.46	2.43	1.83	3.05
HS-20	51	S	236.44	35.03	411.10	53.40	1.30	2362.62	452.13	1.77	2.96	2.70	4.51
HS-20	52	S	211.47	31.73	346.38	53.40	1.30	2229.84	452.13	2.00	3.34	2.73	4.55
HS-20	53	S	194.06	29.34	305.68	53.40	1.30	2362.62	452.13	2.45	4.09	2.75	4.59
HS-20	54	S	189.45	29.73	277.40	53.40	1.30	2362.62	452.13	2.70	4.51	2.74	4.58
HS-20	55	S	177.31	28.20	261.54	53.40	1.30	2362.62	452.13	2.89	4.82	2.76	4.60
HS-20	56	S	140.99	22.93	258.04	53.40	1.30	2362.62	452.13	2.99	5.00	2.80	4.68
HS-20	57	S	149.27	21.06	266.94	53.40	1.30	2642.63	484.92	3.25	5.43	3.04	5.07
HS-20	58	S	183.24	35.43	288.24	53.40	1.30	2342.47	644.78	2.59	4.32	3.97	6.63
HS-20	59	S	245.10	38.55	323.58	53.40	1.30	2362.62	452.13	2.24	3.74	2.67	4.45
HS-20	60	S	212.61	30.18	371.35	53.40	1.30	2362.62	452.13	1.99	3.32	2.74	4.58
HS-20	61	S	227.39	30.65	431.57	53.40	1.30	2362.62	452.13	1.70	2.83	2.74	4.57
HS-20	62	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	63	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	64	S	278.77	40.59	491.47	80.10	1.30	2229.84	452.13	1.35	2.25	1.77	2.95
HS-20	65	S	278.77	40.59	491.47	80.10	1.30	2642.63	484.92	1.64	2.75	1.91	3.19
HS-20	66	S	278.77	40.59	491.47	80.10	1.30	2342.47	644.78	1.43	2.38	2.62	4.37
HS-20	67	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	68	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95

South Bracket Floorbeams
HS-20 TRUCK

***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment		Rating Factor - Shear	
			Moment	Shear	Moment	Shear		Moment	Shear	Inventory	Operating	Inventory	Operating
			k-ft	k	k-ft	k		k-ft	k				
HS-20	69	S	278.77	40.59	491.47	80.10	1.30	2229.84	452.13	1.35	2.25	1.77	2.95
HS-20	70	S	278.77	40.59	491.47	80.10	1.30	2342.47	644.78	1.43	2.38	2.62	4.37
HS-20	71	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	72	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	73	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	74	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	75	S	278.77	40.59	491.47	80.10	1.30	*2362.62	*452.13	1.44	2.41	1.77	2.95
HS-20	76	S	278.77	40.59	491.47	80.10	1.30	*2362.62	*452.13	1.44	2.41	1.77	2.95
HS-20	77	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	78	S	278.77	40.59	491.47	80.10	1.30	*2362.62	*452.13	1.44	2.41	1.77	2.95
HS-20	79	S	278.77	40.59	491.47	80.10	1.30	2642.63	484.92	1.64	2.75	1.91	3.19
HS-20	80	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	81	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	82	S	278.77	40.59	491.47	80.10	1.30	*2362.62	*452.13	1.44	2.41	1.77	2.95
HS-20	83	S	278.77	40.59	491.47	80.10	1.30	2642.63	484.92	1.64	2.75	1.91	3.19
HS-20	84	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	85	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	86	S	278.77	40.59	491.47	80.10	1.30	2229.84	452.13	1.35	2.25	1.77	2.95
HS-20	87	S	278.77	40.59	491.47	80.10	1.30	2570.20	484.92	1.59	2.66	1.91	3.19
HS-20	88	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	89	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	90	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	91	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	92	S	278.77	40.59	491.47	80.10	1.30	*2362.62	*452.13	1.44	2.41	1.77	2.95
HS-20	93	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	94	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	95	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	96	S	278.77	40.59	491.47	80.10	1.30	2229.84	452.13	1.35	2.25	1.77	2.95
HS-20	97	S	278.77	40.59	491.47	80.10	1.30	2229.84	452.13	1.35	2.25	1.77	2.95
HS-20	98	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	99	S	278.77	40.59	491.47	80.10	1.30	2342.47	644.78	1.43	2.38	2.62	4.37
HS-20	100	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	101	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	102	S	278.77	40.59	491.47	80.10	1.30	2342.47	644.78	1.43	2.38	2.62	4.37
HS-20	103	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	104	S	278.77	40.59	491.47	80.10	1.30	2642.63	484.92	1.64	2.75	1.91	3.19
HS-20	105	S	278.77	40.59	491.47	80.10	1.30	*2229.84	*452.13	1.35	2.25	1.77	2.95
HS-20	106	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	107	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	108	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	109	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	110	S	281.49	41.56	491.47	80.10	1.30	2362.62	452.13	1.44	2.40	1.76	2.94
HS-20	111	S	255.95	33.38	440.52	53.40	1.30	2642.63	484.92	1.86	3.10	2.93	4.89
HS-20	112	S	247.00	38.51	389.48	53.40	1.30	2362.62	452.13	1.86	3.10	2.67	4.46
HS-20	113	S	207.79	31.04	338.43	53.40	1.30	2362.62	452.13	2.19	3.66	2.73	4.56
HS-20	114	S	195.29	30.49	287.39	53.40	1.30	2642.63	484.92	2.95	4.92	2.96	4.93
HS-20	115	S	156.25	26.00	236.34	53.40	1.30	2362.62	452.13	3.24	5.41	2.78	4.64
HS-20	116	S	156.20	33.59	185.29	53.40	1.30	*2229.84	*452.13	3.88	6.47	2.71	4.53
HS-20	117	S	144.56	29.22	157.87	26.70	1.30	*2229.84	*452.13	4.58	7.65	5.50	9.18
HS-20	118	S	133.63	27.96	153.42	26.70	1.30	*2229.84	*452.13	4.75	7.93	5.52	9.21
HS-20	119	S	141.15	32.28	159.96	26.70	1.30	2570.20	484.92	5.29	8.83	5.88	9.82
HS-20	120	S	131.18	19.61	195.31	53.40	1.30	2229.84	452.13	3.74	6.24	2.83	4.73
HS-20	121	S	179.99	44.28	253.16	53.40	1.30	*2229.84	*452.13	2.79	4.66	2.62	4.37
HS-20	122	S	224.77	39.81	311.01	53.40	1.30	*2229.84	*452.13	2.21	3.69	2.66	4.44
HS-20	123	S	278.21	47.87	436.45	53.40	1.30	*2229.84	*452.13	1.52	2.53	2.59	4.32
HS-20	124	S	330.55	44.86	602.53	80.10	1.30	*2229.84	*452.13	1.06	1.77	1.74	2.91
HS-20	125	S	364.24	53.06	790.69	80.10	1.30	*2229.84	*452.13	**0.79**	1.31	1.70	2.83
HS-20	126	S	193.73	24.99	1050.28	106.80	1.30	2362.62	452.13	**0.71**	1.19	1.39	2.32
										0.71	1.19	1.39	2.32
										126	126	126	126

South Bracket Floorbeams

2F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
2F1	0	S	273.60	41.68	257.41	41.53	1.30	2229.84	452.13	4.31	5.67
2F1	1	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	2	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	3	S	273.60	41.68	257.41	41.53	1.30	2342.47	644.78	4.57	8.41
2F1	4	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	5	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	6	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	7	S	273.60	41.68	257.41	41.53	1.30	2229.84	452.13	4.31	5.67
2F1	8	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	9	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	10	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	11	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	12	S	273.60	41.68	257.41	41.53	1.30	2342.47	644.78	4.57	8.41
2F1	13	S	273.60	41.68	257.41	41.53	1.30	2570.20	484.92	5.09	6.14
2F1	14	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	15	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	16	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	17	S	273.60	41.68	257.41	41.53	1.30	2342.47	644.78	4.57	8.41
2F1	18	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	19	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	20	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	21	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	22	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	23	S	273.60	41.68	257.41	41.53	1.30	2570.20	484.92	5.09	6.14
2F1	24	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	25	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	26	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	27	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	28	S	273.60	41.68	257.41	41.53	1.30	2229.84	452.13	4.31	5.67
2F1	29	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	30	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	31	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	32	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	33	S	273.60	41.68	257.41	41.53	1.30	2342.47	644.78	4.57	8.41
2F1	34	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	35	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	36	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	37	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	38	S	273.60	41.68	257.41	41.53	1.30	2342.47	644.78	4.57	8.41
2F1	39	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	40	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	41	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	42	S	273.60	41.68	257.41	41.53	1.30	2642.63	484.92	5.26	6.14
2F1	43	S	273.60	41.68	257.41	41.53	1.30	2342.47	644.78	4.57	8.41
2F1	44	S	274.85	41.93	257.41	41.53	1.30	2342.47	644.78	4.56	8.41
2F1	45	S	258.65	30.86	269.31	41.53	1.30	2362.62	452.13	4.45	5.87
2F1	46	S	286.61	43.30	290.72	41.53	1.30	2740.68	691.43	4.82	9.05
2F1	47	S	278.34	41.08	321.87	41.53	1.30	2740.68	691.43	4.37	9.09
2F1	48	S	275.41	37.60	358.50	41.53	1.30	2229.84	452.13	3.09	5.75
2F1	49	S	275.35	37.12	324.98	41.53	1.30	2342.47	644.78	3.61	8.50
2F1	50	S	261.99	30.54	255.19	41.53	1.30	2362.62	452.13	4.69	5.88
2F1	51	S	236.44	35.03	213.15	27.69	1.30	2362.62	452.13	5.71	8.69
2F1	52	S	211.47	31.73	179.59	27.69	1.30	2229.84	452.13	6.44	8.78
2F1	53	S	194.06	29.34	158.49	27.69	1.30	2362.62	452.13	7.88	8.85
2F1	54	S	189.45	29.73	143.83	27.69	1.30	2362.62	452.13	8.71	8.84
2F1	55	S	177.31	28.20	135.60	27.69	1.30	2362.62	452.13	9.30	8.88
2F1	56	S	140.99	22.93	133.79	27.69	1.30	2362.62	452.13	9.64	9.03
2F1	57	S	149.27	21.06	138.40	27.69	1.30	2642.63	484.92	10.47	9.78
2F1	58	S	183.24	35.43	149.45	27.69	1.30	2342.47	644.78	8.33	12.80
2F1	59	S	245.10	38.55	167.77	27.69	1.30	2362.62	452.13	7.21	8.59
2F1	60	S	212.61	30.18	192.54	27.69	1.30	2362.62	452.13	6.41	8.82
2F1	61	S	227.39	30.65	223.76	27.69	1.30	2362.62	452.13	5.47	8.81
2F1	62	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	63	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	64	S	278.77	40.59	254.82	41.53	1.30	2229.84	452.13	4.34	5.69
2F1	65	S	278.77	40.59	254.82	41.53	1.30	2642.63	484.92	5.29	6.16
2F1	66	S	278.77	40.59	254.82	41.53	1.30	2342.47	644.78	4.60	8.43
2F1	67	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	68	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69

South Bracket Floorbeams
2F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
2F1	69	S	278.77	40.59	254.82	41.53	1.30	2229.84	452.13	4.34	5.69
2F1	70	S	278.77	40.59	254.82	41.53	1.30	2342.47	644.78	4.60	8.43
2F1	71	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	72	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	73	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	74	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	75	S	278.77	40.59	254.82	41.53	1.30	*2362.62	*452.13	4.64	5.69
2F1	76	S	278.77	40.59	254.82	41.53	1.30	*2362.62	*452.13	4.64	5.69
2F1	77	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	78	S	278.77	40.59	254.82	41.53	1.30	*2362.62	*452.13	4.64	5.69
2F1	79	S	278.77	40.59	254.82	41.53	1.30	2642.63	484.92	5.29	6.16
2F1	80	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	81	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	82	S	278.77	40.59	254.82	41.53	1.30	*2362.62	*452.13	4.64	5.69
2F1	83	S	278.77	40.59	254.82	41.53	1.30	2642.63	484.92	5.29	6.16
2F1	84	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	85	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	86	S	278.77	40.59	254.82	41.53	1.30	2229.84	452.13	4.34	5.69
2F1	87	S	278.77	40.59	254.82	41.53	1.30	2570.20	484.92	5.13	6.16
2F1	88	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	89	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	90	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	91	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	92	S	278.77	40.59	254.82	41.53	1.30	*2362.62	*452.13	4.64	5.69
2F1	93	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	94	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	95	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	96	S	278.77	40.59	254.82	41.53	1.30	2229.84	452.13	4.34	5.69
2F1	97	S	278.77	40.59	254.82	41.53	1.30	2229.84	452.13	4.34	5.69
2F1	98	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	99	S	278.77	40.59	254.82	41.53	1.30	2342.47	644.78	4.60	8.43
2F1	100	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	101	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	102	S	278.77	40.59	254.82	41.53	1.30	2342.47	644.78	4.60	8.43
2F1	103	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	104	S	278.77	40.59	254.82	41.53	1.30	2642.63	484.92	5.29	6.16
2F1	105	S	278.77	40.59	254.82	41.53	1.30	*2229.84	*452.13	4.34	5.69
2F1	106	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	107	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	108	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	109	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	110	S	281.49	41.56	254.82	41.53	1.30	2362.62	452.13	4.64	5.67
2F1	111	S	255.95	33.38	228.40	27.69	1.30	2642.63	484.92	5.98	9.44
2F1	112	S	247.00	38.51	201.94	27.69	1.30	2362.62	452.13	5.98	8.59
2F1	113	S	207.79	31.04	175.47	27.69	1.30	2362.62	452.13	7.06	8.80
2F1	114	S	195.29	30.49	149.01	27.69	1.30	2642.63	484.92	9.49	9.52
2F1	115	S	156.25	26.00	122.54	27.69	1.30	2362.62	452.13	10.43	8.94
2F1	116	S	156.20	33.59	96.07	27.69	1.30	*2229.84	*452.13	12.48	8.73
2F1	117	S	144.56	29.22	81.85	13.84	1.30	*2229.84	*452.13	14.76	17.70
2F1	118	S	133.63	27.96	79.55	13.84	1.30	*2229.84	*452.13	15.29	17.77
2F1	119	S	141.15	32.28	82.94	13.84	1.30	2570.20	484.92	17.03	18.93
2F1	120	S	131.18	19.61	101.26	27.69	1.30	2229.84	452.13	12.03	9.12
2F1	121	S	179.99	44.28	131.26	27.69	1.30	*2229.84	*452.13	9.00	8.43
2F1	122	S	224.77	39.81	161.25	27.69	1.30	*2229.84	*452.13	7.11	8.56
2F1	123	S	278.21	47.87	226.29	27.69	1.30	*2229.84	*452.13	4.88	8.33
2F1	124	S	330.55	44.86	312.40	41.53	1.30	*2229.84	*452.13	3.41	5.61
2F1	125	S	364.24	53.06	409.96	41.53	1.30	*2229.84	*452.13	2.54	5.46
2F1	126	S	193.73	24.99	544.55	55.38	1.30	2362.62	452.13	2.29	4.48
										2.29	4.48
										126	194

South Bracket Floorbeams

3F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
3F1	0	S	273.60	41.68	383.92	61.94	1.30	2229.84	452.13	2.89	3.80
3F1	1	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	2	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	3	S	273.60	41.68	383.92	61.94	1.30	2342.47	644.78	3.06	5.64
3F1	4	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	5	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	6	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	7	S	273.60	41.68	383.92	61.94	1.30	2229.84	452.13	2.89	3.80
3F1	8	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	9	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	10	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	11	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	12	S	273.60	41.68	383.92	61.94	1.30	2342.47	644.78	3.06	5.64
3F1	13	S	273.60	41.68	383.92	61.94	1.30	2570.20	484.92	3.41	4.11
3F1	14	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	15	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	16	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	17	S	273.60	41.68	383.92	61.94	1.30	2342.47	644.78	3.06	5.64
3F1	18	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	19	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	20	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	21	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	22	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	23	S	273.60	41.68	383.92	61.94	1.30	2570.20	484.92	3.41	4.11
3F1	24	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	25	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	26	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	27	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	28	S	273.60	41.68	383.92	61.94	1.30	2229.84	452.13	2.89	3.80
3F1	29	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	30	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	31	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	32	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	33	S	273.60	41.68	383.92	61.94	1.30	2342.47	644.78	3.06	5.64
3F1	34	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	35	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	36	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	37	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	38	S	273.60	41.68	383.92	61.94	1.30	2342.47	644.78	3.06	5.64
3F1	39	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	40	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	41	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	42	S	273.60	41.68	383.92	61.94	1.30	2642.63	484.92	3.52	4.11
3F1	43	S	273.60	41.68	383.92	61.94	1.30	2342.47	644.78	3.06	5.64
3F1	44	S	274.85	41.93	383.92	61.94	1.30	2342.47	644.78	3.06	5.64
3F1	45	S	258.65	30.86	401.67	61.94	1.30	2362.62	452.13	2.99	3.94
3F1	46	S	286.61	43.30	433.61	61.94	1.30	2740.68	691.43	3.23	6.07
3F1	47	S	278.34	41.08	480.07	61.94	1.30	2740.68	691.43	2.93	6.09
3F1	48	S	275.41	37.60	534.69	61.94	1.30	2229.84	452.13	2.07	3.85
3F1	49	S	275.35	37.12	484.69	61.94	1.30	2342.47	644.78	2.42	5.70
3F1	50	S	261.99	30.54	380.60	61.94	1.30	2362.62	452.13	3.14	3.94
3F1	51	S	236.44	35.03	317.91	41.30	1.30	2362.62	452.13	3.83	5.83
3F1	52	S	211.47	31.73	267.85	41.30	1.30	2229.84	452.13	4.32	5.89
3F1	53	S	194.06	29.34	236.38	41.30	1.30	2362.62	452.13	5.28	5.93
3F1	54	S	189.45	29.73	214.52	41.30	1.30	2362.62	452.13	5.84	5.92
3F1	55	S	177.31	28.20	202.25	41.30	1.30	2362.62	452.13	6.24	5.95
3F1	56	S	140.99	22.93	199.54	41.30	1.30	2362.62	452.13	6.46	6.05
3F1	57	S	149.27	21.06	206.42	41.30	1.30	2642.63	484.92	7.02	6.56
3F1	58	S	183.24	35.43	222.90	41.30	1.30	2342.47	644.78	5.59	8.58
3F1	59	S	245.10	38.55	250.22	41.30	1.30	2362.62	452.13	4.83	5.76
3F1	60	S	212.61	30.18	287.17	41.30	1.30	2362.62	452.13	4.30	5.92
3F1	61	S	227.39	30.65	333.74	41.30	1.30	2362.62	452.13	3.66	5.91
3F1	62	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	63	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	64	S	278.77	40.59	380.06	61.94	1.30	2229.84	452.13	2.91	3.81
3F1	65	S	278.77	40.59	380.06	61.94	1.30	2642.63	484.92	3.55	4.13
3F1	66	S	278.77	40.59	380.06	61.94	1.30	2342.47	644.78	3.08	5.66
3F1	67	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	68	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81

South Bracket Floorbeams

3F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
3F1	69	S	278.77	40.59	380.06	61.94	1.30	2229.84	452.13	2.91	3.81
3F1	70	S	278.77	40.59	380.06	61.94	1.30	2342.47	644.78	3.08	5.66
3F1	71	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	72	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	73	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	74	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	75	S	278.77	40.59	380.06	61.94	1.30	*2362.62	*452.13	3.11	3.81
3F1	76	S	278.77	40.59	380.06	61.94	1.30	*2362.62	*452.13	3.11	3.81
3F1	77	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	78	S	278.77	40.59	380.06	61.94	1.30	*2362.62	*452.13	3.11	3.81
3F1	79	S	278.77	40.59	380.06	61.94	1.30	2642.63	484.92	3.55	4.13
3F1	80	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	81	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	82	S	278.77	40.59	380.06	61.94	1.30	*2362.62	*452.13	3.11	3.81
3F1	83	S	278.77	40.59	380.06	61.94	1.30	2642.63	484.92	3.55	4.13
3F1	84	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	85	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	86	S	278.77	40.59	380.06	61.94	1.30	2229.84	452.13	2.91	3.81
3F1	87	S	278.77	40.59	380.06	61.94	1.30	2570.20	484.92	3.44	4.13
3F1	88	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	89	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	90	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	91	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	92	S	278.77	40.59	380.06	61.94	1.30	*2362.62	*452.13	3.11	3.81
3F1	93	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	94	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	95	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	96	S	278.77	40.59	380.06	61.94	1.30	2229.84	452.13	2.91	3.81
3F1	97	S	278.77	40.59	380.06	61.94	1.30	2229.84	452.13	2.91	3.81
3F1	98	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	99	S	278.77	40.59	380.06	61.94	1.30	2342.47	644.78	3.08	5.66
3F1	100	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	101	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	102	S	278.77	40.59	380.06	61.94	1.30	2342.47	644.78	3.08	5.66
3F1	103	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	104	S	278.77	40.59	380.06	61.94	1.30	2642.63	484.92	3.55	4.13
3F1	105	S	278.77	40.59	380.06	61.94	1.30	*2229.84	*452.13	2.91	3.81
3F1	106	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	107	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	108	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	109	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	110	S	281.49	41.56	380.06	61.94	1.30	2362.62	452.13	3.11	3.80
3F1	111	S	255.95	33.38	340.66	41.30	1.30	2642.63	484.92	4.01	6.33
3F1	112	S	247.00	38.51	301.18	41.30	1.30	2362.62	452.13	4.01	5.76
3F1	113	S	207.79	31.04	261.71	41.30	1.30	2362.62	452.13	4.73	5.90
3F1	114	S	195.29	30.49	222.24	41.30	1.30	2642.63	484.92	6.36	6.38
3F1	115	S	156.25	26.00	182.76	41.30	1.30	2362.62	452.13	6.99	5.99
3F1	116	S	156.20	33.59	143.29	41.30	1.30	*2229.84	*452.13	8.37	5.85
3F1	117	S	144.56	29.22	122.08	20.65	1.30	*2229.84	*452.13	9.90	11.87
3F1	118	S	133.63	27.96	118.64	20.65	1.30	*2229.84	*452.13	10.25	11.92
3F1	119	S	141.15	32.28	123.70	20.65	1.30	2570.20	484.92	11.42	12.69
3F1	120	S	131.18	19.61	151.03	41.30	1.30	2229.84	452.13	8.07	6.11
3F1	121	S	179.99	44.28	195.77	41.30	1.30	*2229.84	*452.13	6.03	5.65
3F1	122	S	224.77	39.81	240.51	41.30	1.30	*2229.84	*452.13	4.77	5.74
3F1	123	S	278.21	47.87	337.51	41.30	1.30	*2229.84	*452.13	3.28	5.59
3F1	124	S	330.55	44.86	465.94	61.94	1.30	*2229.84	*452.13	2.29	3.76
3F1	125	S	364.24	53.06	611.44	61.94	1.30	*2229.84	*452.13	1.70	3.66
3F1	126	S	193.73	24.99	812.18	82.59	1.30	2362.62	452.13	1.54	3.01
										1.54	3.01
										126	194

South Bracket Floorbeams

4F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
4F1	0	S	273.60	41.68	433.85	70.00	1.30	2229.84	452.13	2.56	3.36
4F1	1	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	2	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	3	S	273.60	41.68	433.85	70.00	1.30	2342.47	644.78	2.71	4.99
4F1	4	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	5	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	6	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	7	S	273.60	41.68	433.85	70.00	1.30	2229.84	452.13	2.56	3.36
4F1	8	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	9	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	10	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	11	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	12	S	273.60	41.68	433.85	70.00	1.30	2342.47	644.78	2.71	4.99
4F1	13	S	273.60	41.68	433.85	70.00	1.30	2570.20	484.92	3.02	3.64
4F1	14	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	15	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	16	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	17	S	273.60	41.68	433.85	70.00	1.30	2342.47	644.78	2.71	4.99
4F1	18	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	19	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	20	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	21	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	22	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	23	S	273.60	41.68	433.85	70.00	1.30	2570.20	484.92	3.02	3.64
4F1	24	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	25	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	26	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	27	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	28	S	273.60	41.68	433.85	70.00	1.30	2229.84	452.13	2.56	3.36
4F1	29	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	30	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	31	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	32	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	33	S	273.60	41.68	433.85	70.00	1.30	2342.47	644.78	2.71	4.99
4F1	34	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	35	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	36	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	37	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	38	S	273.60	41.68	433.85	70.00	1.30	2342.47	644.78	2.71	4.99
4F1	39	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	40	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	41	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	42	S	273.60	41.68	433.85	70.00	1.30	2642.63	484.92	3.12	3.64
4F1	43	S	273.60	41.68	433.85	70.00	1.30	2342.47	644.78	2.71	4.99
4F1	44	S	274.85	41.93	433.85	70.00	1.30	2342.47	644.78	2.71	4.99
4F1	45	S	258.65	30.86	453.90	70.00	1.30	2362.62	452.13	2.64	3.48
4F1	46	S	286.61	43.30	489.99	70.00	1.30	2740.68	691.43	2.86	5.37
4F1	47	S	278.34	41.08	542.49	70.00	1.30	2740.68	691.43	2.59	5.39
4F1	48	S	275.41	37.60	604.22	70.00	1.30	2229.84	452.13	1.83	3.41
4F1	49	S	275.35	37.12	547.72	70.00	1.30	2342.47	644.78	2.14	5.04
4F1	50	S	261.99	30.54	430.09	70.00	1.30	2362.62	452.13	2.78	3.49
4F1	51	S	236.44	35.03	359.25	46.67	1.30	2362.62	452.13	3.39	5.16
4F1	52	S	211.47	31.73	302.69	46.67	1.30	2229.84	452.13	3.82	5.21
4F1	53	S	194.06	29.34	267.12	46.67	1.30	2362.62	452.13	4.67	5.25
4F1	54	S	189.45	29.73	242.41	46.67	1.30	2362.62	452.13	5.17	5.24
4F1	55	S	177.31	28.20	228.55	46.67	1.30	2362.62	452.13	5.52	5.27
4F1	56	S	140.99	22.93	225.49	46.67	1.30	2362.62	452.13	5.72	5.36
4F1	57	S	149.27	21.06	233.26	46.67	1.30	2642.63	484.92	6.21	5.80
4F1	58	S	183.24	35.43	251.88	46.67	1.30	2342.47	644.78	4.94	7.59
4F1	59	S	245.10	38.55	282.76	46.67	1.30	2362.62	452.13	4.28	5.10
4F1	60	S	212.61	30.18	324.51	46.67	1.30	2362.62	452.13	3.80	5.24
4F1	61	S	227.39	30.65	377.14	46.67	1.30	2362.62	452.13	3.24	5.23
4F1	62	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	63	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	64	S	278.77	40.59	429.48	70.00	1.30	2229.84	452.13	2.57	3.38
4F1	65	S	278.77	40.59	429.48	70.00	1.30	2642.63	484.92	3.14	3.65
4F1	66	S	278.77	40.59	429.48	70.00	1.30	2342.47	644.78	2.73	5.00
4F1	67	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	68	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38

South Bracket Floorbeams
4F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
4F1	69	S	278.77	40.59	429.48	70.00	1.30	2229.84	452.13	2.57	3.38
4F1	70	S	278.77	40.59	429.48	70.00	1.30	2342.47	644.78	2.73	5.00
4F1	71	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	72	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	73	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	74	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	75	S	278.77	40.59	429.48	70.00	1.30	*2362.62	*452.13	2.76	3.38
4F1	76	S	278.77	40.59	429.48	70.00	1.30	*2362.62	*452.13	2.76	3.38
4F1	77	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	78	S	278.77	40.59	429.48	70.00	1.30	*2362.62	*452.13	2.76	3.38
4F1	79	S	278.77	40.59	429.48	70.00	1.30	2642.63	484.92	3.14	3.65
4F1	80	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	81	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	82	S	278.77	40.59	429.48	70.00	1.30	*2362.62	*452.13	2.76	3.38
4F1	83	S	278.77	40.59	429.48	70.00	1.30	2642.63	484.92	3.14	3.65
4F1	84	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	85	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	86	S	278.77	40.59	429.48	70.00	1.30	2229.84	452.13	2.57	3.38
4F1	87	S	278.77	40.59	429.48	70.00	1.30	2570.20	484.92	3.04	3.65
4F1	88	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	89	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	90	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	91	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	92	S	278.77	40.59	429.48	70.00	1.30	*2362.62	*452.13	2.76	3.38
4F1	93	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	94	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	95	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	96	S	278.77	40.59	429.48	70.00	1.30	2229.84	452.13	2.57	3.38
4F1	97	S	278.77	40.59	429.48	70.00	1.30	2229.84	452.13	2.57	3.38
4F1	98	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	99	S	278.77	40.59	429.48	70.00	1.30	2342.47	644.78	2.73	5.00
4F1	100	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	101	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	102	S	278.77	40.59	429.48	70.00	1.30	2342.47	644.78	2.73	5.00
4F1	103	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	104	S	278.77	40.59	429.48	70.00	1.30	2642.63	484.92	3.14	3.65
4F1	105	S	278.77	40.59	429.48	70.00	1.30	*2229.84	*452.13	2.57	3.38
4F1	106	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	107	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	108	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	109	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	110	S	281.49	41.56	429.48	70.00	1.30	2362.62	452.13	2.75	3.37
4F1	111	S	255.95	33.38	384.96	46.67	1.30	2642.63	484.92	3.55	5.60
4F1	112	S	247.00	38.51	340.35	46.67	1.30	2362.62	452.13	3.55	5.10
4F1	113	S	207.79	31.04	295.74	46.67	1.30	2362.62	452.13	4.19	5.22
4F1	114	S	195.29	30.49	251.14	46.67	1.30	2642.63	484.92	5.63	5.65
4F1	115	S	156.25	26.00	206.53	46.67	1.30	2362.62	452.13	6.19	5.30
4F1	116	S	156.20	33.59	161.92	46.67	1.30	*2229.84	*452.13	7.41	5.18
4F1	117	S	144.56	29.22	137.96	23.33	1.30	*2229.84	*452.13	8.76	10.50
4F1	118	S	133.63	27.96	134.07	23.33	1.30	*2229.84	*452.13	9.07	10.54
4F1	119	S	141.15	32.28	139.78	23.33	1.30	2570.20	484.92	10.10	11.23
4F1	120	S	131.18	19.61	170.67	46.67	1.30	2229.84	452.13	7.14	5.41
4F1	121	S	179.99	44.28	221.23	46.67	1.30	*2229.84	*452.13	5.34	5.00
4F1	122	S	224.77	39.81	271.78	46.67	1.30	*2229.84	*452.13	4.22	5.08
4F1	123	S	278.21	47.87	381.40	46.67	1.30	*2229.84	*452.13	2.90	4.94
4F1	124	S	330.55	44.86	526.53	70.00	1.30	*2229.84	*452.13	2.02	3.33
4F1	125	S	364.24	53.06	690.95	70.00	1.30	*2229.84	*452.13	1.50	3.24
4F1	126	S	193.73	24.99	917.80	93.33	1.30	2362.62	452.13	1.36	2.66
										1.36	2.66
										126	194

South Bracket Floorbeams

5C1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
5C1	0	S	273.60	41.68	371.20	59.89	1.30	2229.84	452.13	2.99	3.93
5C1	1	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	2	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	3	S	273.60	41.68	371.20	59.89	1.30	2342.47	644.78	3.17	5.83
5C1	4	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	5	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	6	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	7	S	273.60	41.68	371.20	59.89	1.30	2229.84	452.13	2.99	3.93
5C1	8	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	9	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	10	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	11	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	12	S	273.60	41.68	371.20	59.89	1.30	2342.47	644.78	3.17	5.83
5C1	13	S	273.60	41.68	371.20	59.89	1.30	2570.20	484.92	3.53	4.26
5C1	14	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	15	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	16	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	17	S	273.60	41.68	371.20	59.89	1.30	2342.47	644.78	3.17	5.83
5C1	18	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	19	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	20	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	21	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	22	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	23	S	273.60	41.68	371.20	59.89	1.30	2570.20	484.92	3.53	4.26
5C1	24	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	25	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	26	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	27	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	28	S	273.60	41.68	371.20	59.89	1.30	2229.84	452.13	2.99	3.93
5C1	29	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	30	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	31	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	32	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	33	S	273.60	41.68	371.20	59.89	1.30	2342.47	644.78	3.17	5.83
5C1	34	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	35	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	36	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	37	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	38	S	273.60	41.68	371.20	59.89	1.30	2342.47	644.78	3.17	5.83
5C1	39	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	40	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	41	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	42	S	273.60	41.68	371.20	59.89	1.30	2642.63	484.92	3.65	4.26
5C1	43	S	273.60	41.68	371.20	59.89	1.30	2342.47	644.78	3.17	5.83
5C1	44	S	274.85	41.93	371.20	59.89	1.30	2342.47	644.78	3.16	5.83
5C1	45	S	258.65	30.86	388.36	59.89	1.30	2362.62	452.13	3.09	4.07
5C1	46	S	286.61	43.30	419.24	59.89	1.30	2740.68	691.43	3.34	6.28
5C1	47	S	278.34	41.08	464.16	59.89	1.30	2740.68	691.43	3.03	6.30
5C1	48	S	275.41	37.60	516.98	59.89	1.30	2229.84	452.13	2.14	3.98
5C1	49	S	275.35	37.12	468.64	59.89	1.30	2342.47	644.78	2.51	5.89
5C1	50	S	261.99	30.54	367.99	59.89	1.30	2362.62	452.13	3.25	4.07
5C1	51	S	236.44	35.03	307.38	39.93	1.30	2362.62	452.13	3.96	6.03
5C1	52	S	211.47	31.73	258.98	39.93	1.30	2229.84	452.13	4.47	6.09
5C1	53	S	194.06	29.34	228.55	39.93	1.30	2362.62	452.13	5.46	6.14
5C1	54	S	189.45	29.73	207.41	39.93	1.30	2362.62	452.13	6.04	6.13
5C1	55	S	177.31	28.20	195.55	39.93	1.30	2362.62	452.13	6.45	6.16
5C1	56	S	140.99	22.93	192.93	39.93	1.30	2362.62	452.13	6.68	6.26
5C1	57	S	149.27	21.06	199.58	39.93	1.30	2642.63	484.92	7.26	6.78
5C1	58	S	183.24	35.43	215.52	39.93	1.30	2342.47	644.78	5.78	8.87
5C1	59	S	245.10	38.55	241.94	39.93	1.30	2362.62	452.13	5.00	5.96
5C1	60	S	212.61	30.18	277.66	39.93	1.30	2362.62	452.13	4.45	6.12
5C1	61	S	227.39	30.65	322.68	39.93	1.30	2362.62	452.13	3.79	6.11
5C1	62	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	63	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	64	S	278.77	40.59	367.47	59.89	1.30	2229.84	452.13	3.01	3.95
5C1	65	S	278.77	40.59	367.47	59.89	1.30	2642.63	484.92	3.67	4.27
5C1	66	S	278.77	40.59	367.47	59.89	1.30	2342.47	644.78	3.19	5.85
5C1	67	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	68	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95

South Bracket Floorbeams

5C1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
5C1	69	S	278.77	40.59	367.47	59.89	1.30	2229.84	452.13	3.01	3.95
5C1	70	S	278.77	40.59	367.47	59.89	1.30	2342.47	644.78	3.19	5.85
5C1	71	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	72	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	73	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	74	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	75	S	278.77	40.59	367.47	59.89	1.30	*2362.62	*452.13	3.22	3.95
5C1	76	S	278.77	40.59	367.47	59.89	1.30	*2362.62	*452.13	3.22	3.95
5C1	77	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	78	S	278.77	40.59	367.47	59.89	1.30	*2362.62	*452.13	3.22	3.95
5C1	79	S	278.77	40.59	367.47	59.89	1.30	2642.63	484.92	3.67	4.27
5C1	80	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	81	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	82	S	278.77	40.59	367.47	59.89	1.30	*2362.62	*452.13	3.22	3.95
5C1	83	S	278.77	40.59	367.47	59.89	1.30	2642.63	484.92	3.67	4.27
5C1	84	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	85	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	86	S	278.77	40.59	367.47	59.89	1.30	2229.84	452.13	3.01	3.95
5C1	87	S	278.77	40.59	367.47	59.89	1.30	2570.20	484.92	3.56	4.27
5C1	88	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	89	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	90	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	91	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	92	S	278.77	40.59	367.47	59.89	1.30	*2362.62	*452.13	3.22	3.95
5C1	93	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	94	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	95	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	96	S	278.77	40.59	367.47	59.89	1.30	2229.84	452.13	3.01	3.95
5C1	97	S	278.77	40.59	367.47	59.89	1.30	2229.84	452.13	3.01	3.95
5C1	98	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	99	S	278.77	40.59	367.47	59.89	1.30	2342.47	644.78	3.19	5.85
5C1	100	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	101	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	102	S	278.77	40.59	367.47	59.89	1.30	2342.47	644.78	3.19	5.85
5C1	103	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	104	S	278.77	40.59	367.47	59.89	1.30	2642.63	484.92	3.67	4.27
5C1	105	S	278.77	40.59	367.47	59.89	1.30	*2229.84	*452.13	3.01	3.95
5C1	106	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	107	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	108	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	109	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	110	S	281.49	41.56	367.47	59.89	1.30	2362.62	452.13	3.22	3.93
5C1	111	S	255.95	33.38	329.37	39.93	1.30	2642.63	484.92	4.15	6.54
5C1	112	S	247.00	38.51	291.21	39.93	1.30	2362.62	452.13	4.15	5.96
5C1	113	S	207.79	31.04	253.04	39.93	1.30	2362.62	452.13	4.89	6.10
5C1	114	S	195.29	30.49	214.88	39.93	1.30	2642.63	484.92	6.58	6.60
5C1	115	S	156.25	26.00	176.71	39.93	1.30	2362.62	452.13	7.23	6.20
5C1	116	S	156.20	33.59	138.54	39.93	1.30	*2229.84	*452.13	8.66	6.05
5C1	117	S	144.56	29.22	118.04	19.96	1.30	*2229.84	*452.13	10.24	12.27
5C1	118	S	133.63	27.96	114.71	19.96	1.30	*2229.84	*452.13	10.61	12.32
5C1	119	S	141.15	32.28	119.60	19.96	1.30	2570.20	484.92	11.81	13.13
5C1	120	S	131.18	19.61	146.03	39.93	1.30	2229.84	452.13	8.34	6.32
5C1	121	S	179.99	44.28	189.29	39.93	1.30	*2229.84	*452.13	6.24	5.85
5C1	122	S	224.77	39.81	232.54	39.93	1.30	*2229.84	*452.13	4.93	5.93
5C1	123	S	278.21	47.87	326.33	39.93	1.30	*2229.84	*452.13	3.39	5.78
5C1	124	S	330.55	44.86	450.50	59.89	1.30	*2229.84	*452.13	2.36	3.89
5C1	125	S	364.24	53.06	591.19	59.89	1.30	*2229.84	*452.13	1.76	3.79
5C1	126	S	193.73	24.99	785.28	79.86	1.30	2362.62	452.13	1.59	3.11
										1.59	3.11
										126	194

Made By KRS Date 3/29/2012 Job No. P402110046

Checked By ADK Date 3/29/2012

Calculations For: ***CUY-2-1441*** *Main Truss, As-Built Floorbeam Ratings*

Interior Floorbeams

HS-20 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment		Rating Factor - Shear	
		Moment	Shear	Moment	Shear		Moment	Shear	Inventory	Operating	Inventory	Operating
		k-ft	k	k-ft	k		k-ft	k				
HS-20	0	182.205	51.36	1093.10	87.60	1.29	3093.71	564.26	0.93	1.56	2.03	3.39
HS-20	1	284.374	81.531	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	2	280.4	81.375	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	3	292.366	70.377	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.93	3.22
HS-20	4	294.615	81.009	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.12
HS-20	5	290.642	80.783	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.13
HS-20	6	285.177	81.58	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	7	334.974	71.594	1093.10	87.60	1.29	3955.83	374.86	1.15	1.92	1.15	1.92
HS-20	8	288.289	81.626	1093.10	87.60	1.29	*3093.71	*564.26	0.89	1.48	1.87	3.12
HS-20	9	281.951	81.434	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	10	318.878	81.871	1093.10	87.60	1.29	3093.71	564.26	0.88	1.46	1.87	3.12
HS-20	11	292.848	80.966	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.12
HS-20	12	296.78	70.861	1093.10	87.60	1.29	3093.71	564.26	0.88	1.48	1.93	3.21
HS-20	13	277.589	81.907	1093.10	87.60	1.29	3465.90	520.93	1.01	1.69	1.69	2.82
HS-20	14	293.082	80.966	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.12
HS-20	15	271.946	81.021	1093.10	87.60	1.29	3093.71	564.26	0.90	1.49	1.87	3.12
HS-20	16	277.509	81.245	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	17	294.112	70.564	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.93	3.22
HS-20	18	306.295	68.946	1093.10	87.60	1.29	3955.83	374.86	1.16	1.94	1.16	1.94
HS-20	19	276.81	81.226	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	20	311.267	81.593	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.87	3.12
HS-20	21	275.271	81.171	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	22	296.66	81.094	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.12
HS-20	23	273.62	83.501	1093.10	87.60	1.29	3661.57	520.93	1.08	1.80	1.68	2.81
HS-20	24	277.689	81.266	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	25	270.777	80.962	1093.10	87.60	1.29	3093.71	564.26	0.90	1.50	1.87	3.12
HS-20	26	276.277	81.185	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	27	278.409	81.245	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	28	331.261	71.348	1093.10	87.60	1.29	3955.83	374.86	1.15	1.92	1.15	1.92
HS-20	29	285.559	81.474	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	30	313.653	80.906	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.87	3.13
HS-20	31	278.455	81.298	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	32	296.442	81.368	1093.10	87.60	1.29	*3093.71	*564.26	0.89	1.48	1.87	3.12
HS-20	33	296.614	70.754	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.93	3.21
HS-20	34	280.541	81.477	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	35	292.251	80.744	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.13
HS-20	36	312.908	69.393	1093.10	87.60	1.29	3955.83	374.86	1.16	1.94	1.16	1.94
HS-20	37	297.291	81.195	1093.10	87.60	1.29	3093.71	564.26	0.88	1.48	1.87	3.12
HS-20	38	284.967	81.03	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	39	271.978	80.791	1093.10	87.60	1.29	3093.71	564.26	0.90	1.49	1.87	3.13
HS-20	40	294.354	80.96	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.12
HS-20	41	299.367	80.218	1093.10	87.60	1.29	3093.71	564.26	0.88	1.48	1.88	3.13
HS-20	42	282.75	82.006	1093.10	87.60	1.29	3465.90	520.93	1.01	1.69	1.69	2.82
HS-20	43	302.244	70.664	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.93	3.22
HS-20	44	290.022	81.336	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.12
HS-20	45	292.555	80.357	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.88	3.13
HS-20	46	298.535	80.907	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.48	1.87	3.13
HS-20	47	301.198	71.675	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.92	3.21
HS-20	48	334.257	71.982	1093.10	87.60	1.29	3696.86	369.88	1.07	1.78	1.13	1.88
HS-20	49	301.582	74.908	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.90	3.18
HS-20	50	327.798	78.947	1093.10	87.60	1.29	3093.71	564.26	0.87	1.46	1.88	3.14
HS-20	51	366.077	72.448	1093.10	87.60	1.29	3093.71	564.26	0.86	1.43	1.92	3.20
HS-20	52	411.959	73.661	1093.10	87.60	1.29	3093.71	564.26	0.84	1.40	1.91	3.19
HS-20	53	410.221	89.557	1093.10	87.60	1.29	3093.71	564.26	0.84	1.40	1.83	3.05
HS-20	54	435.759	67.041	1093.10	87.60	1.29	3093.71	564.26	0.83	1.38	1.95	3.25
HS-20	55	475.701	88.967	1093.10	87.60	1.29	3093.71	564.26	0.81	1.35	1.83	3.05
HS-20	56	443.053	77.918	1093.10	87.60	1.29	3093.71	564.26	0.82	1.37	1.89	3.15
HS-20	57	184.169	65.733	1093.10	87.60	1.29	3268.74	564.26	0.99	1.65	1.95	3.26
HS-20	58	239.803	56.257	1093.10	87.60	1.29	3093.71	564.26	0.91	1.52	2.00	3.34
HS-20	59	245.097	58.956	1093.10	87.60	1.29	3093.71	564.26	0.91	1.51	1.99	3.32
HS-20	60	212.611	68.326	1093.10	87.60	1.29	3093.71	564.26	0.92	1.54	1.94	3.24
HS-20	61	227.394	68.768	1093.10	87.60	1.29	3093.71	564.26	0.91	1.53	1.94	3.23
HS-20	62	315.121	68.124	1093.10	87.60	1.29	3093.71	564.26	0.88	1.46	1.94	3.24

Made By KRS Date 3/29/2012 Job No. P402110046

Checked By ADK Date 3/29/2012

Calculations For: ***CUY-2-1441*** *Main Truss, As-Built Floorbeam Ratings*

Interior Floorbeams

HS-20 TRUCK

***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment		Rating Factor - Shear	
		Moment	Shear	Moment	Shear		Moment	Shear	Inventory	Operating	Inventory	Operating
		k-ft	k	k-ft	k		k-ft	k				
HS-20	63	318.13	73.392	1093.10	87.60	1.29	3093.71	564.26	0.88	1.46	1.91	3.19
HS-20	64	303.024	74.891	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.90	3.18
HS-20	65	303.736	80.022	1093.10	87.60	1.29	3661.57	520.93	1.07	1.78	1.70	2.84
HS-20	66	305.691	79.439	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.47	1.88	3.14
HS-20	67	307.13	75.334	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.90	3.17
HS-20	68	298.144	67.434	1093.10	87.60	1.29	3093.71	564.26	0.88	1.48	1.94	3.24
HS-20	69	307.5	72.667	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.92	3.20
HS-20	70	291.429	77.885	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.89	3.15
HS-20	71	316.286	74.772	1093.10	87.60	1.29	3696.86	369.88	1.07	1.79	1.11	1.86
HS-20	72	282.057	74.677	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.91	3.18
HS-20	73	269.013	82.04	1093.10	87.60	1.29	*3093.71	*564.26	0.90	1.50	1.87	3.11
HS-20	74	280.029	79.857	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.88	3.13
HS-20	75	289.422	76.024	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.90	3.17
HS-20	76	295.922	68.186	1093.10	87.60	1.29	*3093.71	*564.26	0.89	1.48	1.94	3.24
HS-20	77	287.016	81.406	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.12
HS-20	78	289.227	77.43	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.89	3.16
HS-20	79	263.727	84.911	1093.10	87.60	1.29	3661.57	520.93	1.08	1.81	1.67	2.79
HS-20	80	273.31	79.547	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.88	3.14
HS-20	81	294.389	82.777	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.86	3.11
HS-20	82	279.124	75.287	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.90	3.17
HS-20	83	304.17	65.133	1093.10	87.60	1.29	4388.33	399.48	1.30	2.18	1.28	2.14
HS-20	84	308.362	76.007	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.90	3.17
HS-20	85	314.514	74.686	1093.10	87.60	1.29	3093.71	564.26	0.88	1.46	1.91	3.18
HS-20	86	310.177	73.069	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.91	3.19
HS-20	87	312.135	78.05	1093.10	87.60	1.29	3661.57	520.93	1.06	1.78	1.71	2.86
HS-20	88	306.188	79.248	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.88	3.14
HS-20	89	299.99	78.901	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.88	3.14
HS-20	90	301.728	74.591	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.91	3.18
HS-20	91	275.901	78.602	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.88	3.15
HS-20	92	302.034	75.421	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.90	3.17
HS-20	93	278.268	77.087	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.89	3.16
HS-20	94	289.01	79.937	1093.10	87.60	1.29	*3093.71	*564.26	0.89	1.48	1.88	3.13
HS-20	95	283.747	77.734	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.89	3.15
HS-20	96	306.69	69.835	1093.10	87.60	1.29	3955.83	374.86	1.16	1.94	1.16	1.93
HS-20	97	272.132	79.237	1093.10	87.60	1.29	3093.71	564.26	0.90	1.49	1.88	3.14
HS-20	98	281.544	81.342	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	99	289.098	67.509	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.94	3.24
HS-20	100	259.646	81.139	1093.10	87.60	1.29	3093.71	564.26	0.90	1.50	1.87	3.12
HS-20	101	279.23	77.296	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.89	3.16
HS-20	102	291.192	76.962	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.89	3.16
HS-20	103	274.587	81.753	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	104	301.793	78.883	1093.10	87.60	1.29	*3696.86	*369.88	1.08	1.80	1.09	1.82
HS-20	105	293.75	75.85	1093.10	87.60	1.29	*3093.71	*564.26	0.89	1.48	1.90	3.17
HS-20	106	310.352	77.449	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.47	1.89	3.16
HS-20	107	309.302	75.049	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.47	1.90	3.18
HS-20	108	306.25	73.983	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.47	1.91	3.19
HS-20	109	303.162	78.608	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.47	1.88	3.15
HS-20	110	318.187	75.781	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.46	1.90	3.17
HS-20	111	323.96	87.806	1093.10	87.60	1.29	*3093.71	*564.26	0.87	1.46	1.84	3.06
HS-20	112	356.553	77.092	1093.10	87.60	1.29	*3093.71	*564.26	0.86	1.43	1.89	3.16
HS-20	113	428.276	70.317	1093.10	87.60	1.29	*3093.71	*564.26	0.83	1.38	1.93	3.22
HS-20	114	420.937	97.178	1093.10	87.60	1.29	*3093.71	*564.26	0.83	1.39	1.79	2.98
HS-20	115	448.795	86.044	1093.10	87.60	1.29	*3093.71	*564.26	0.82	1.37	1.84	3.08
HS-20	116	494.022	85.942	1093.10	87.60	1.29	*3093.71	*564.26	0.80	1.34	1.85	3.08
HS-20	117	495.094	76.603	1093.10	87.60	1.29	*3093.71	*564.26	0.80	1.34	1.89	3.16
HS-20	118	521.389	78.591	1093.10	87.60	1.29	*3093.71	*564.26	0.79	1.32	1.88	3.15
HS-20	119	483.196	103.393	1093.10	87.60	1.29	*3093.71	*564.26	0.81	1.34	1.75	2.93
HS-20	120	439.713	100.453	1093.10	87.60	1.29	*3093.71	*564.26	0.82	1.38	1.77	2.95
HS-20	121	440.977	83.019	1093.10	87.60	1.29	*3093.71	*564.26	0.82	1.37	1.86	3.11
HS-20	122	405.919	70.654	1093.10	87.60	1.29	*3093.71	*564.26	0.84	1.40	1.93	3.22
HS-20	123	341.782	69.981	1093.10	87.60	1.29	*3093.71	*564.26	0.87	1.45	1.93	3.22
HS-20	124	300.257	72.65	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.47	1.92	3.20
HS-20	125	344.181	70.674	1093.10	87.60	1.29	*3093.71	*564.26	0.86	1.44	1.93	3.22
HS-20	126	180.077	40.401	1093.10	87.60	1.29	3696.86	369.88	1.13	1.89	1.29	2.16
									0.79	1.32	1.09	1.82
									118	118	104	104

Made By KRS 3/29/2012 Job No. P402110046

Checked By ADK 3/29/2012

Calculations For. ***CUY-2-1441*** *Main Truss, As-Built Floorbeam Ratings*

Interior Floorbeams

2F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
2F1	0	182.205	51.36	565.00	45.30	1.29	3093.71	564.26	3.02	6.55
2F1	1	284.374	81.531	565.00	45.30	1.29	3093.71	564.26	2.87	6.03
2F1	2	280.4	81.375	565.00	45.30	1.29	3093.71	564.26	2.88	6.04
2F1	3	292.366	70.377	565.00	45.30	1.29	3093.71	564.26	2.86	6.22
2F1	4	294.615	81.009	565.00	45.30	1.29	3093.71	564.26	2.86	6.04
2F1	5	290.642	80.783	565.00	45.30	1.29	3093.71	564.26	2.87	6.05
2F1	6	285.177	81.58	565.00	45.30	1.29	3093.71	564.26	2.87	6.03
2F1	7	334.974	71.594	565.00	45.30	1.29	3955.83	374.86	3.72	3.71
2F1	8	288.289	81.626	565.00	45.30	1.29	*3093.71	*564.26	2.87	6.03
2F1	9	281.951	81.434	565.00	45.30	1.29	3093.71	564.26	2.88	6.03
2F1	10	318.878	81.871	565.00	45.30	1.29	3093.71	564.26	2.83	6.03
2F1	11	292.848	80.966	565.00	45.30	1.29	3093.71	564.26	2.86	6.04
2F1	12	296.78	70.861	565.00	45.30	1.29	3093.71	564.26	2.86	6.21
2F1	13	277.589	81.907	565.00	45.30	1.29	3465.90	520.93	3.28	5.46
2F1	14	293.082	80.966	565.00	45.30	1.29	3093.71	564.26	2.86	6.04
2F1	15	271.946	81.021	565.00	45.30	1.29	3093.71	564.26	2.89	6.04
2F1	16	277.509	81.245	565.00	45.30	1.29	3093.71	564.26	2.88	6.04
2F1	17	294.112	70.564	565.00	45.30	1.29	3093.71	564.26	2.86	6.22
2F1	18	306.295	68.946	565.00	45.30	1.29	3955.83	374.86	3.75	3.75
2F1	19	276.81	81.226	565.00	45.30	1.29	3093.71	564.26	2.89	6.04
2F1	20	311.267	81.593	565.00	45.30	1.29	3093.71	564.26	2.84	6.03
2F1	21	275.271	81.171	565.00	45.30	1.29	3093.71	564.26	2.89	6.04
2F1	22	296.66	81.094	565.00	45.30	1.29	3093.71	564.26	2.86	6.04
2F1	23	273.62	83.501	565.00	45.30	1.29	3661.57	520.93	3.49	5.43
2F1	24	277.689	81.266	565.00	45.30	1.29	3093.71	564.26	2.88	6.04
2F1	25	270.777	80.962	565.00	45.30	1.29	3093.71	564.26	2.89	6.04
2F1	26	276.277	81.185	565.00	45.30	1.29	3093.71	564.26	2.89	6.04
2F1	27	278.409	81.245	565.00	45.30	1.29	3093.71	564.26	2.88	6.04
2F1	28	331.261	71.348	565.00	45.30	1.29	3955.83	374.86	3.72	3.71
2F1	29	285.559	81.474	565.00	45.30	1.29	3093.71	564.26	2.87	6.03
2F1	30	313.653	80.906	565.00	45.30	1.29	3093.71	564.26	2.83	6.04
2F1	31	278.455	81.298	565.00	45.30	1.29	3093.71	564.26	2.88	6.04
2F1	32	296.442	81.368	565.00	45.30	1.29	*3093.71	*564.26	2.86	6.04
2F1	33	296.614	70.754	565.00	45.30	1.29	3093.71	564.26	2.86	6.22
2F1	34	280.541	81.477	565.00	45.30	1.29	3093.71	564.26	2.88	6.03
2F1	35	292.251	80.744	565.00	45.30	1.29	3093.71	564.26	2.86	6.05
2F1	36	312.908	69.393	565.00	45.30	1.29	3955.83	374.86	3.75	3.75
2F1	37	297.291	81.195	565.00	45.30	1.29	3093.71	564.26	2.86	6.04
2F1	38	284.967	81.03	565.00	45.30	1.29	3093.71	564.26	2.87	6.04
2F1	39	271.978	80.791	565.00	45.30	1.29	3093.71	564.26	2.89	6.05
2F1	40	294.354	80.96	565.00	45.30	1.29	3093.71	564.26	2.86	6.04
2F1	41	299.367	80.218	565.00	45.30	1.29	3093.71	564.26	2.85	6.05
2F1	42	282.75	82.006	565.00	45.30	1.29	3465.90	520.93	3.27	5.45
2F1	43	302.244	70.664	565.00	45.30	1.29	3093.71	564.26	2.85	6.22
2F1	44	290.022	81.336	565.00	45.30	1.29	3093.71	564.26	2.87	6.04
2F1	45	292.555	80.357	565.00	45.30	1.29	3093.71	564.26	2.86	6.05
2F1	46	298.535	80.907	565.00	45.30	1.29	*3093.71	*564.26	2.86	6.04
2F1	47	301.198	71.675	565.00	45.30	1.29	3093.71	564.26	2.85	6.20
2F1	48	334.257	71.982	565.00	45.30	1.29	3696.86	369.88	3.44	3.64
2F1	49	301.582	74.908	565.00	45.30	1.29	3093.71	564.26	2.85	6.15
2F1	50	327.798	78.947	565.00	45.30	1.29	3093.71	564.26	2.82	6.08
2F1	51	366.077	72.448	565.00	45.30	1.29	3093.71	564.26	2.76	6.19
2F1	52	411.959	73.661	565.00	45.30	1.29	3093.71	564.26	2.70	6.17
2F1	53	410.221	89.557	565.00	45.30	1.29	3093.71	564.26	2.70	5.90
2F1	54	435.759	67.041	565.00	45.30	1.29	3093.71	564.26	2.67	6.28
2F1	55	475.701	88.967	565.00	45.30	1.29	3093.71	564.26	2.61	5.91
2F1	56	443.053	77.918	565.00	45.30	1.29	3093.71	564.26	2.66	6.09
2F1	57	184.169	65.733	565.00	45.30	1.29	3268.74	564.26	3.20	6.30
2F1	58	239.803	56.257	565.00	45.30	1.29	3093.71	564.26	2.94	6.46
2F1	59	245.097	58.956	565.00	45.30	1.29	3093.71	564.26	2.93	6.42
2F1	60	212.611	68.326	565.00	45.30	1.29	3093.71	564.26	2.97	6.26
2F1	61	227.394	68.768	565.00	45.30	1.29	3093.71	564.26	2.95	6.25
2F1	62	315.121	68.124	565.00	45.30	1.29	3093.71	564.26	2.83	6.26

Made By KRS 3/29/2012 Job No. P402110046

Checked By ADK 3/29/2012

Calculations For. ***CUY-2-1441*** *Main Truss, As-Built Floorbeam Ratings*

Interior Floorbeams

2F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
2F1	63	318.13	73.392	565.00	45.30	1.29	3093.71	564.26	2.83	6.17
2F1	64	303.024	74.891	565.00	45.30	1.29	3093.71	564.26	2.85	6.15
2F1	65	303.736	80.022	565.00	45.30	1.29	3661.57	520.93	3.45	5.49
2F1	66	305.691	79.439	565.00	45.30	1.29	*3093.71	*564.26	2.85	6.07
2F1	67	307.13	75.334	565.00	45.30	1.29	3093.71	564.26	2.84	6.14
2F1	68	298.144	67.434	565.00	45.30	1.29	3093.71	564.26	2.86	6.27
2F1	69	307.5	72.667	565.00	45.30	1.29	3093.71	564.26	2.84	6.18
2F1	70	291.429	77.885	565.00	45.30	1.29	3093.71	564.26	2.87	6.09
2F1	71	316.286	74.772	565.00	45.30	1.29	3696.86	369.88	3.47	3.59
2F1	72	282.057	74.677	565.00	45.30	1.29	3093.71	564.26	2.88	6.15
2F1	73	269.013	82.04	565.00	45.30	1.29	*3093.71	*564.26	2.90	6.02
2F1	74	280.029	79.857	565.00	45.30	1.29	3093.71	564.26	2.88	6.06
2F1	75	289.422	76.024	565.00	45.30	1.29	3093.71	564.26	2.87	6.13
2F1	76	295.922	68.186	565.00	45.30	1.29	*3093.71	*564.26	2.86	6.26
2F1	77	287.016	81.406	565.00	45.30	1.29	3093.71	564.26	2.87	6.03
2F1	78	289.227	77.43	565.00	45.30	1.29	3093.71	564.26	2.87	6.10
2F1	79	263.727	84.911	565.00	45.30	1.29	3661.57	520.93	3.50	5.40
2F1	80	273.31	79.547	565.00	45.30	1.29	3093.71	564.26	2.89	6.07
2F1	81	294.389	82.777	565.00	45.30	1.29	3093.71	564.26	2.86	6.01
2F1	82	279.124	75.287	565.00	45.30	1.29	3093.71	564.26	2.88	6.14
2F1	83	304.17	65.133	565.00	45.30	1.29	4388.33	399.48	4.21	4.14
2F1	84	308.362	76.007	565.00	45.30	1.29	3093.71	564.26	2.84	6.13
2F1	85	314.514	74.686	565.00	45.30	1.29	3093.71	564.26	2.83	6.15
2F1	86	310.177	73.069	565.00	45.30	1.29	3093.71	564.26	2.84	6.18
2F1	87	312.135	78.05	565.00	45.30	1.29	3661.57	520.93	3.44	5.52
2F1	88	306.188	79.248	565.00	45.30	1.29	3093.71	564.26	2.85	6.07
2F1	89	299.99	78.901	565.00	45.30	1.29	3093.71	564.26	2.85	6.08
2F1	90	301.728	74.591	565.00	45.30	1.29	3093.71	564.26	2.85	6.15
2F1	91	275.901	78.602	565.00	45.30	1.29	3093.71	564.26	2.89	6.08
2F1	92	302.034	75.421	565.00	45.30	1.29	3093.71	564.26	2.85	6.14
2F1	93	278.268	77.087	565.00	45.30	1.29	3093.71	564.26	2.88	6.11
2F1	94	289.01	79.937	565.00	45.30	1.29	*3093.71	*564.26	2.87	6.06
2F1	95	283.747	77.734	565.00	45.30	1.29	3093.71	564.26	2.88	6.10
2F1	96	306.69	69.835	565.00	45.30	1.29	3955.83	374.86	3.75	3.74
2F1	97	272.132	79.237	565.00	45.30	1.29	3093.71	564.26	2.89	6.07
2F1	98	281.544	81.342	565.00	45.30	1.29	3093.71	564.26	2.88	6.04
2F1	99	289.098	67.509	565.00	45.30	1.29	3093.71	564.26	2.87	6.27
2F1	100	259.646	81.139	565.00	45.30	1.29	3093.71	564.26	2.91	6.04
2F1	101	279.23	77.296	565.00	45.30	1.29	3093.71	564.26	2.88	6.10
2F1	102	291.192	76.962	565.00	45.30	1.29	3093.71	564.26	2.87	6.11
2F1	103	274.587	81.753	565.00	45.30	1.29	3093.71	564.26	2.89	6.03
2F1	104	301.793	78.883	565.00	45.30	1.29	*3696.86	*369.88	3.49	3.52
2F1	105	293.75	75.85	565.00	45.30	1.29	*3093.71	*564.26	2.86	6.13
2F1	106	310.352	77.449	565.00	45.30	1.29	*3093.71	*564.26	2.84	6.10
2F1	107	309.302	75.049	565.00	45.30	1.29	*3093.71	*564.26	2.84	6.14
2F1	108	306.25	73.983	565.00	45.30	1.29	*3093.71	*564.26	2.84	6.16
2F1	109	303.162	78.608	565.00	45.30	1.29	*3093.71	*564.26	2.85	6.08
2F1	110	318.187	75.781	565.00	45.30	1.29	*3093.71	*564.26	2.83	6.13
2F1	111	323.96	87.806	565.00	45.30	1.29	*3093.71	*564.26	2.82	5.93
2F1	112	356.553	77.092	565.00	45.30	1.29	*3093.71	*564.26	2.78	6.11
2F1	113	428.276	70.317	565.00	45.30	1.29	*3093.71	*564.26	2.68	6.22
2F1	114	420.937	97.178	565.00	45.30	1.29	*3093.71	*564.26	2.69	5.76
2F1	115	448.795	86.044	565.00	45.30	1.29	*3093.71	*564.26	2.65	5.96
2F1	116	494.022	85.942	565.00	45.30	1.29	*3093.71	*564.26	2.59	5.96
2F1	117	495.094	76.603	565.00	45.30	1.29	*3093.71	*564.26	2.59	6.12
2F1	118	521.389	78.591	565.00	45.30	1.29	*3093.71	*564.26	2.55	6.08
2F1	119	483.196	103.393	565.00	45.30	1.29	*3093.71	*564.26	2.60	5.66
2F1	120	439.713	100.453	565.00	45.30	1.29	*3093.71	*564.26	2.66	5.71
2F1	121	440.977	83.019	565.00	45.30	1.29	*3093.71	*564.26	2.66	6.01
2F1	122	405.919	70.654	565.00	45.30	1.29	*3093.71	*564.26	2.71	6.22
2F1	123	341.782	69.981	565.00	45.30	1.29	*3093.71	*564.26	2.80	6.23
2F1	124	300.257	72.65	565.00	45.30	1.29	*3093.71	*564.26	2.85	6.18
2F1	125	344.181	70.674	565.00	45.30	1.29	*3093.71	*564.26	2.79	6.22
2F1	126	180.077	40.401	565.00	45.30	1.29	3696.86	369.88	3.65	4.18
									2.55	3.52
									118	104

Made By KRS 3/29/2012 Job No. P402110046

Checked By ADK 3/29/2012

Calculations For. ***CUY-2-1441*** *Main Truss, As-Built Floorbeam Ratings*

Interior Floorbeams

3F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
3F1	0	182.205	51.36	843.40	67.60	1.29	3093.71	564.26	2.02	4.39
3F1	1	284.374	81.531	843.40	67.60	1.29	3093.71	564.26	1.93	4.04
3F1	2	280.4	81.375	843.40	67.60	1.29	3093.71	564.26	1.93	4.04
3F1	3	292.366	70.377	843.40	67.60	1.29	3093.71	564.26	1.92	4.17
3F1	4	294.615	81.009	843.40	67.60	1.29	3093.71	564.26	1.92	4.05
3F1	5	290.642	80.783	843.40	67.60	1.29	3093.71	564.26	1.92	4.05
3F1	6	285.177	81.58	843.40	67.60	1.29	3093.71	564.26	1.93	4.04
3F1	7	334.974	71.594	843.40	67.60	1.29	3955.83	374.86	2.49	2.49
3F1	8	288.289	81.626	843.40	67.60	1.29	*3093.71	*564.26	1.92	4.04
3F1	9	281.951	81.434	843.40	67.60	1.29	3093.71	564.26	1.93	4.04
3F1	10	318.878	81.871	843.40	67.60	1.29	3093.71	564.26	1.89	4.04
3F1	11	292.848	80.966	843.40	67.60	1.29	3093.71	564.26	1.92	4.05
3F1	12	296.78	70.861	843.40	67.60	1.29	3093.71	564.26	1.91	4.16
3F1	13	277.589	81.907	843.40	67.60	1.29	3465.90	520.93	2.20	3.66
3F1	14	293.082	80.966	843.40	67.60	1.29	3093.71	564.26	1.92	4.05
3F1	15	271.946	81.021	843.40	67.60	1.29	3093.71	564.26	1.94	4.05
3F1	16	277.509	81.245	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	17	294.112	70.564	843.40	67.60	1.29	3093.71	564.26	1.92	4.17
3F1	18	306.295	68.946	843.40	67.60	1.29	3955.83	374.86	2.52	2.52
3F1	19	276.81	81.226	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	20	311.267	81.593	843.40	67.60	1.29	3093.71	564.26	1.90	4.04
3F1	21	275.271	81.171	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	22	296.66	81.094	843.40	67.60	1.29	3093.71	564.26	1.91	4.05
3F1	23	273.62	83.501	843.40	67.60	1.29	3661.57	520.93	2.34	3.64
3F1	24	277.689	81.266	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	25	270.777	80.962	843.40	67.60	1.29	3093.71	564.26	1.94	4.05
3F1	26	276.277	81.185	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	27	278.409	81.245	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	28	331.261	71.348	843.40	67.60	1.29	3955.83	374.86	2.49	2.49
3F1	29	285.559	81.474	843.40	67.60	1.29	3093.71	564.26	1.92	4.04
3F1	30	313.653	80.906	843.40	67.60	1.29	3093.71	564.26	1.90	4.05
3F1	31	278.455	81.298	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	32	296.442	81.368	843.40	67.60	1.29	*3093.71	*564.26	1.91	4.04
3F1	33	296.614	70.754	843.40	67.60	1.29	3093.71	564.26	1.91	4.17
3F1	34	280.541	81.477	843.40	67.60	1.29	3093.71	564.26	1.93	4.04
3F1	35	292.251	80.744	843.40	67.60	1.29	3093.71	564.26	1.92	4.05
3F1	36	312.908	69.393	843.40	67.60	1.29	3955.83	374.86	2.51	2.51
3F1	37	297.291	81.195	843.40	67.60	1.29	3093.71	564.26	1.91	4.05
3F1	38	284.967	81.03	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	39	271.978	80.791	843.40	67.60	1.29	3093.71	564.26	1.94	4.05
3F1	40	294.354	80.96	843.40	67.60	1.29	3093.71	564.26	1.92	4.05
3F1	41	299.367	80.218	843.40	67.60	1.29	3093.71	564.26	1.91	4.06
3F1	42	282.75	82.006	843.40	67.60	1.29	3465.90	520.93	2.19	3.65
3F1	43	302.244	70.664	843.40	67.60	1.29	3093.71	564.26	1.91	4.17
3F1	44	290.022	81.336	843.40	67.60	1.29	3093.71	564.26	1.92	4.04
3F1	45	292.555	80.357	843.40	67.60	1.29	3093.71	564.26	1.92	4.06
3F1	46	298.535	80.907	843.40	67.60	1.29	*3093.71	*564.26	1.91	4.05
3F1	47	301.198	71.675	843.40	67.60	1.29	3093.71	564.26	1.91	4.16
3F1	48	334.257	71.982	843.40	67.60	1.29	3696.86	369.88	2.31	2.44
3F1	49	301.582	74.908	843.40	67.60	1.29	3093.71	564.26	1.91	4.12
3F1	50	327.798	78.947	843.40	67.60	1.29	3093.71	564.26	1.89	4.07
3F1	51	366.077	72.448	843.40	67.60	1.29	3093.71	564.26	1.85	4.15
3F1	52	411.959	73.661	843.40	67.60	1.29	3093.71	564.26	1.81	4.13
3F1	53	410.221	89.557	843.40	67.60	1.29	3093.71	564.26	1.81	3.95
3F1	54	435.759	67.041	843.40	67.60	1.29	3093.71	564.26	1.79	4.21
3F1	55	475.701	88.967	843.40	67.60	1.29	3093.71	564.26	1.75	3.96
3F1	56	443.053	77.918	843.40	67.60	1.29	3093.71	564.26	1.78	4.08
3F1	57	184.169	65.733	843.40	67.60	1.29	3268.74	564.26	2.14	4.22
3F1	58	239.803	56.257	843.40	67.60	1.29	3093.71	564.26	1.97	4.33
3F1	59	245.097	58.956	843.40	67.60	1.29	3093.71	564.26	1.96	4.30
3F1	60	212.611	68.326	843.40	67.60	1.29	3093.71	564.26	1.99	4.19
3F1	61	227.394	68.768	843.40	67.60	1.29	3093.71	564.26	1.98	4.19
3F1	62	315.121	68.124	843.40	67.60	1.29	3093.71	564.26	1.90	4.20

Made By KRS 3/29/2012 Job No. P402110046

Checked By ADK 3/29/2012

Calculations For. ***CUY-2-1441*** *Main Truss, As-Built Floorbeam Ratings*

Interior Floorbeams

3F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
3F1	63	318.13	73.392	843.40	67.60	1.29	3093.71	564.26	1.89	4.14
3F1	64	303.024	74.891	843.40	67.60	1.29	3093.71	564.26	1.91	4.12
3F1	65	303.736	80.022	843.40	67.60	1.29	3661.57	520.93	2.31	3.68
3F1	66	305.691	79.439	843.40	67.60	1.29	*3093.71	*564.26	1.91	4.07
3F1	67	307.13	75.334	843.40	67.60	1.29	3093.71	564.26	1.91	4.11
3F1	68	298.144	67.434	843.40	67.60	1.29	3093.71	564.26	1.91	4.20
3F1	69	307.5	72.667	843.40	67.60	1.29	3093.71	564.26	1.90	4.14
3F1	70	291.429	77.885	843.40	67.60	1.29	3093.71	564.26	1.92	4.08
3F1	71	316.286	74.772	843.40	67.60	1.29	3696.86	369.88	2.32	2.41
3F1	72	282.057	74.677	843.40	67.60	1.29	3093.71	564.26	1.93	4.12
3F1	73	269.013	82.04	843.40	67.60	1.29	*3093.71	*564.26	1.94	4.04
3F1	74	280.029	79.857	843.40	67.60	1.29	3093.71	564.26	1.93	4.06
3F1	75	289.422	76.024	843.40	67.60	1.29	3093.71	564.26	1.92	4.11
3F1	76	295.922	68.186	843.40	67.60	1.29	*3093.71	*564.26	1.92	4.20
3F1	77	287.016	81.406	843.40	67.60	1.29	3093.71	564.26	1.92	4.04
3F1	78	289.227	77.43	843.40	67.60	1.29	3093.71	564.26	1.92	4.09
3F1	79	263.727	84.911	843.40	67.60	1.29	3661.57	520.93	2.35	3.62
3F1	80	273.31	79.547	843.40	67.60	1.29	3093.71	564.26	1.94	4.07
3F1	81	294.389	82.777	843.40	67.60	1.29	3093.71	564.26	1.92	4.03
3F1	82	279.124	75.287	843.40	67.60	1.29	3093.71	564.26	1.93	4.11
3F1	83	304.17	65.133	843.40	67.60	1.29	4388.33	399.48	2.82	2.78
3F1	84	308.362	76.007	843.40	67.60	1.29	3093.71	564.26	1.90	4.11
3F1	85	314.514	74.686	843.40	67.60	1.29	3093.71	564.26	1.90	4.12
3F1	86	310.177	73.069	843.40	67.60	1.29	3093.71	564.26	1.90	4.14
3F1	87	312.135	78.05	843.40	67.60	1.29	3661.57	520.93	2.30	3.70
3F1	88	306.188	79.248	843.40	67.60	1.29	3093.71	564.26	1.91	4.07
3F1	89	299.99	78.901	843.40	67.60	1.29	3093.71	564.26	1.91	4.07
3F1	90	301.728	74.591	843.40	67.60	1.29	3093.71	564.26	1.91	4.12
3F1	91	275.901	78.602	843.40	67.60	1.29	3093.71	564.26	1.93	4.08
3F1	92	302.034	75.421	843.40	67.60	1.29	3093.71	564.26	1.91	4.11
3F1	93	278.268	77.087	843.40	67.60	1.29	3093.71	564.26	1.93	4.09
3F1	94	289.01	79.937	843.40	67.60	1.29	*3093.71	*564.26	1.92	4.06
3F1	95	283.747	77.734	843.40	67.60	1.29	3093.71	564.26	1.93	4.09
3F1	96	306.69	69.835	843.40	67.60	1.29	3955.83	374.86	2.51	2.51
3F1	97	272.132	79.237	843.40	67.60	1.29	3093.71	564.26	1.94	4.07
3F1	98	281.544	81.342	843.40	67.60	1.29	3093.71	564.26	1.93	4.04
3F1	99	289.098	67.509	843.40	67.60	1.29	3093.71	564.26	1.92	4.20
3F1	100	259.646	81.139	843.40	67.60	1.29	3093.71	564.26	1.95	4.05
3F1	101	279.23	77.296	843.40	67.60	1.29	3093.71	564.26	1.93	4.09
3F1	102	291.192	76.962	843.40	67.60	1.29	3093.71	564.26	1.92	4.09
3F1	103	274.587	81.753	843.40	67.60	1.29	3093.71	564.26	1.93	4.04
3F1	104	301.793	78.883	843.40	67.60	1.29	*3696.86	*369.88	2.34	2.36
3F1	105	293.75	75.85	843.40	67.60	1.29	*3093.71	*564.26	1.92	4.11
3F1	106	310.352	77.449	843.40	67.60	1.29	*3093.71	*564.26	1.90	4.09
3F1	107	309.302	75.049	843.40	67.60	1.29	*3093.71	*564.26	1.90	4.12
3F1	108	306.25	73.983	843.40	67.60	1.29	*3093.71	*564.26	1.91	4.13
3F1	109	303.162	78.608	843.40	67.60	1.29	*3093.71	*564.26	1.91	4.08
3F1	110	318.187	75.781	843.40	67.60	1.29	*3093.71	*564.26	1.89	4.11
3F1	111	323.96	87.806	843.40	67.60	1.29	*3093.71	*564.26	1.89	3.97
3F1	112	356.553	77.092	843.40	67.60	1.29	*3093.71	*564.26	1.86	4.09
3F1	113	428.276	70.317	843.40	67.60	1.29	*3093.71	*564.26	1.79	4.17
3F1	114	420.937	97.178	843.40	67.60	1.29	*3093.71	*564.26	1.80	3.86
3F1	115	448.795	86.044	843.40	67.60	1.29	*3093.71	*564.26	1.77	3.99
3F1	116	494.022	85.942	843.40	67.60	1.29	*3093.71	*564.26	1.73	3.99
3F1	117	495.094	76.603	843.40	67.60	1.29	*3093.71	*564.26	1.73	4.10
3F1	118	521.389	78.591	843.40	67.60	1.29	*3093.71	*564.26	1.71	4.08
3F1	119	483.196	103.393	843.40	67.60	1.29	*3093.71	*564.26	1.74	3.79
3F1	120	439.713	100.453	843.40	67.60	1.29	*3093.71	*564.26	1.78	3.83
3F1	121	440.977	83.019	843.40	67.60	1.29	*3093.71	*564.26	1.78	4.03
3F1	122	405.919	70.654	843.40	67.60	1.29	*3093.71	*564.26	1.81	4.17
3F1	123	341.782	69.981	843.40	67.60	1.29	*3093.71	*564.26	1.87	4.17
3F1	124	300.257	72.65	843.40	67.60	1.29	*3093.71	*564.26	1.91	4.14
3F1	125	344.181	70.674	843.40	67.60	1.29	*3093.71	*564.26	1.87	4.17
3F1	126	180.077	40.401	843.40	67.60	1.29	3696.86	369.88	2.45	2.80
									1.71	2.36
									118	104

Made By KRS 3/29/2012

Checked By ADK 3/29/2012

Job No. P402110046

Calculations For: ***CUY-2-1441*** *Main Truss, As-Built Floorbeam Ratings*

Interior Floorbeams

4F1 TRUCK

***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
4F1	0	182.205	51.36	953.90	76.40	1.29	3093.71	564.26	1.79	3.88
4F1	1	284.374	81.531	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	2	280.4	81.375	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	3	292.366	70.377	953.90	76.40	1.29	3093.71	564.26	1.70	3.69
4F1	4	294.615	81.009	953.90	76.40	1.29	3093.71	564.26	1.69	3.58
4F1	5	290.642	80.783	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	6	285.177	81.58	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	7	334.974	71.594	953.90	76.40	1.29	3955.83	374.86	2.20	2.20
4F1	8	288.289	81.626	953.90	76.40	1.29	*3093.71	*564.26	1.70	3.58
4F1	9	281.951	81.434	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	10	318.878	81.871	953.90	76.40	1.29	3093.71	564.26	1.67	3.57
4F1	11	292.848	80.966	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	12	296.78	70.861	953.90	76.40	1.29	3093.71	564.26	1.69	3.69
4F1	13	277.589	81.907	953.90	76.40	1.29	3465.90	520.93	1.94	3.23
4F1	14	293.082	80.966	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	15	271.946	81.021	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	16	277.509	81.245	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	17	294.112	70.564	953.90	76.40	1.29	3093.71	564.26	1.69	3.69
4F1	18	306.295	68.946	953.90	76.40	1.29	3955.83	374.86	2.22	2.23
4F1	19	276.81	81.226	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	20	311.267	81.593	953.90	76.40	1.29	3093.71	564.26	1.68	3.58
4F1	21	275.271	81.171	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	22	296.66	81.094	953.90	76.40	1.29	3093.71	564.26	1.69	3.58
4F1	23	273.62	83.501	953.90	76.40	1.29	3661.57	520.93	2.07	3.22
4F1	24	277.689	81.266	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	25	270.777	80.962	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	26	276.277	81.185	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	27	278.409	81.245	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	28	331.261	71.348	953.90	76.40	1.29	3955.83	374.86	2.20	2.20
4F1	29	285.559	81.474	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	30	313.653	80.906	953.90	76.40	1.29	3093.71	564.26	1.68	3.58
4F1	31	278.455	81.298	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	32	296.442	81.368	953.90	76.40	1.29	*3093.71	*564.26	1.69	3.58
4F1	33	296.614	70.754	953.90	76.40	1.29	3093.71	564.26	1.69	3.69
4F1	34	280.541	81.477	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	35	292.251	80.744	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	36	312.908	69.393	953.90	76.40	1.29	3955.83	374.86	2.22	2.22
4F1	37	297.291	81.195	953.90	76.40	1.29	3093.71	564.26	1.69	3.58
4F1	38	284.967	81.03	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	39	271.978	80.791	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	40	294.354	80.96	953.90	76.40	1.29	3093.71	564.26	1.69	3.58
4F1	41	299.367	80.218	953.90	76.40	1.29	3093.71	564.26	1.69	3.59
4F1	42	282.75	82.006	953.90	76.40	1.29	3465.90	520.93	1.94	3.23
4F1	43	302.244	70.664	953.90	76.40	1.29	3093.71	564.26	1.69	3.69
4F1	44	290.022	81.336	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	45	292.555	80.357	953.90	76.40	1.29	3093.71	564.26	1.70	3.59
4F1	46	298.535	80.907	953.90	76.40	1.29	*3093.71	*564.26	1.69	3.58
4F1	47	301.198	71.675	953.90	76.40	1.29	3093.71	564.26	1.69	3.68
4F1	48	334.257	71.982	953.90	76.40	1.29	3696.86	369.88	2.04	2.16
4F1	49	301.582	74.908	953.90	76.40	1.29	3093.71	564.26	1.69	3.64
4F1	50	327.798	78.947	953.90	76.40	1.29	3093.71	564.26	1.67	3.60
4F1	51	366.077	72.448	953.90	76.40	1.29	3093.71	564.26	1.64	3.67
4F1	52	411.959	73.661	953.90	76.40	1.29	3093.71	564.26	1.60	3.66
4F1	53	410.221	89.557	953.90	76.40	1.29	3093.71	564.26	1.60	3.50
4F1	54	435.759	67.041	953.90	76.40	1.29	3093.71	564.26	1.58	3.72
4F1	55	475.701	88.967	953.90	76.40	1.29	3093.71	564.26	1.55	3.50
4F1	56	443.053	77.918	953.90	76.40	1.29	3093.71	564.26	1.57	3.61
4F1	57	184.169	65.733	953.90	76.40	1.29	3268.74	564.26	1.89	3.74
4F1	58	239.803	56.257	953.90	76.40	1.29	3093.71	564.26	1.74	3.83
4F1	59	245.097	58.956	953.90	76.40	1.29	3093.71	564.26	1.73	3.81
4F1	60	212.611	68.326	953.90	76.40	1.29	3093.71	564.26	1.76	3.71
4F1	61	227.394	68.768	953.90	76.40	1.29	3093.71	564.26	1.75	3.71
4F1	62	315.121	68.124	953.90	76.40	1.29	3093.71	564.26	1.68	3.71

Made By KRS 3/29/2012

Checked By ADK 3/29/2012

Job No. P402110046

Calculations For: ***CUY-2-1441*** *Main Truss, As-Built Floorbeam Ratings*

Interior Floorbeams

4F1 TRUCK

***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
4F1	63	318.13	73.392	953.90	76.40	1.29	3093.71	564.26	1.68	3.66
4F1	64	303.024	74.891	953.90	76.40	1.29	3093.71	564.26	1.69	3.64
4F1	65	303.736	80.022	953.90	76.40	1.29	3661.57	520.93	2.04	3.25
4F1	66	305.691	79.439	953.90	76.40	1.29	*3093.71	*564.26	1.69	3.60
4F1	67	307.13	75.334	953.90	76.40	1.29	3093.71	564.26	1.68	3.64
4F1	68	298.144	67.434	953.90	76.40	1.29	3093.71	564.26	1.69	3.72
4F1	69	307.5	72.667	953.90	76.40	1.29	3093.71	564.26	1.68	3.67
4F1	70	291.429	77.885	953.90	76.40	1.29	3093.71	564.26	1.70	3.61
4F1	71	316.286	74.772	953.90	76.40	1.29	3696.86	369.88	2.05	2.13
4F1	72	282.057	74.677	953.90	76.40	1.29	3093.71	564.26	1.70	3.65
4F1	73	269.013	82.04	953.90	76.40	1.29	*3093.71	*564.26	1.72	3.57
4F1	74	280.029	79.857	953.90	76.40	1.29	3093.71	564.26	1.71	3.59
4F1	75	289.422	76.024	953.90	76.40	1.29	3093.71	564.26	1.70	3.63
4F1	76	295.922	68.186	953.90	76.40	1.29	*3093.71	*564.26	1.69	3.71
4F1	77	287.016	81.406	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	78	289.227	77.43	953.90	76.40	1.29	3093.71	564.26	1.70	3.62
4F1	79	263.727	84.911	953.90	76.40	1.29	3661.57	520.93	2.07	3.20
4F1	80	273.31	79.547	953.90	76.40	1.29	3093.71	564.26	1.71	3.60
4F1	81	294.389	82.777	953.90	76.40	1.29	3093.71	564.26	1.69	3.56
4F1	82	279.124	75.287	953.90	76.40	1.29	3093.71	564.26	1.71	3.64
4F1	83	304.17	65.133	953.90	76.40	1.29	4388.33	399.48	2.50	2.46
4F1	84	308.362	76.007	953.90	76.40	1.29	3093.71	564.26	1.68	3.63
4F1	85	314.514	74.686	953.90	76.40	1.29	3093.71	564.26	1.68	3.65
4F1	86	310.177	73.069	953.90	76.40	1.29	3093.71	564.26	1.68	3.66
4F1	87	312.135	78.05	953.90	76.40	1.29	3661.57	520.93	2.04	3.27
4F1	88	306.188	79.248	953.90	76.40	1.29	3093.71	564.26	1.69	3.60
4F1	89	299.99	78.901	953.90	76.40	1.29	3093.71	564.26	1.69	3.60
4F1	90	301.728	74.591	953.90	76.40	1.29	3093.71	564.26	1.69	3.65
4F1	91	275.901	78.602	953.90	76.40	1.29	3093.71	564.26	1.71	3.61
4F1	92	302.034	75.421	953.90	76.40	1.29	3093.71	564.26	1.69	3.64
4F1	93	278.268	77.087	953.90	76.40	1.29	3093.71	564.26	1.71	3.62
4F1	94	289.01	79.937	953.90	76.40	1.29	*3093.71	*564.26	1.70	3.59
4F1	95	283.747	77.734	953.90	76.40	1.29	3093.71	564.26	1.70	3.62
4F1	96	306.69	69.835	953.90	76.40	1.29	3955.83	374.86	2.22	2.22
4F1	97	272.132	79.237	953.90	76.40	1.29	3093.71	564.26	1.71	3.60
4F1	98	281.544	81.342	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	99	289.098	67.509	953.90	76.40	1.29	3093.71	564.26	1.70	3.72
4F1	100	259.646	81.139	953.90	76.40	1.29	3093.71	564.26	1.72	3.58
4F1	101	279.23	77.296	953.90	76.40	1.29	3093.71	564.26	1.71	3.62
4F1	102	291.192	76.962	953.90	76.40	1.29	3093.71	564.26	1.70	3.62
4F1	103	274.587	81.753	953.90	76.40	1.29	3093.71	564.26	1.71	3.57
4F1	104	301.793	78.883	953.90	76.40	1.29	*3696.86	*369.88	2.07	2.09
4F1	105	293.75	75.85	953.90	76.40	1.29	*3093.71	*564.26	1.70	3.63
4F1	106	310.352	77.449	953.90	76.40	1.29	*3093.71	*564.26	1.68	3.62
4F1	107	309.302	75.049	953.90	76.40	1.29	*3093.71	*564.26	1.68	3.64
4F1	108	306.25	73.983	953.90	76.40	1.29	*3093.71	*564.26	1.69	3.65
4F1	109	303.162	78.608	953.90	76.40	1.29	*3093.71	*564.26	1.69	3.61
4F1	110	318.187	75.781	953.90	76.40	1.29	*3093.71	*564.26	1.68	3.64
4F1	111	323.96	87.806	953.90	76.40	1.29	*3093.71	*564.26	1.67	3.51
4F1	112	356.553	77.092	953.90	76.40	1.29	*3093.71	*564.26	1.64	3.62
4F1	113	428.276	70.317	953.90	76.40	1.29	*3093.71	*564.26	1.59	3.69
4F1	114	420.937	97.178	953.90	76.40	1.29	*3093.71	*564.26	1.59	3.42
4F1	115	448.795	86.044	953.90	76.40	1.29	*3093.71	*564.26	1.57	3.53
4F1	116	494.022	85.942	953.90	76.40	1.29	*3093.71	*564.26	1.53	3.53
4F1	117	495.094	76.603	953.90	76.40	1.29	*3093.71	*564.26	1.53	3.63
4F1	118	521.389	78.591	953.90	76.40	1.29	*3093.71	*564.26	1.51	3.61
4F1	119	483.196	103.393	953.90	76.40	1.29	*3093.71	*564.26	1.54	3.35
4F1	120	439.713	100.453	953.90	76.40	1.29	*3093.71	*564.26	1.58	3.38
4F1	121	440.977	83.019	953.90	76.40	1.29	*3093.71	*564.26	1.58	3.56
4F1	122	405.919	70.654	953.90	76.40	1.29	*3093.71	*564.26	1.60	3.69
4F1	123	341.782	69.981	953.90	76.40	1.29	*3093.71	*564.26	1.66	3.69
4F1	124	300.257	72.65	953.90	76.40	1.29	*3093.71	*564.26	1.69	3.67
4F1	125	344.181	70.674	953.90	76.40	1.29	*3093.71	*564.26	1.65	3.69
4F1	126	180.077	40.401	953.90	76.40	1.29	3696.86	369.88	2.16	2.48
									1.51	2.09
									118	104

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Checked By ADK 3/29/2012

Calculations For: ***CUY-2-1441*** *Main Truss, As-Built Floorbeam Ratings*

Interior Floorbeams

5C1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
5C1	0	182.205	51.36	818.80	65.60	1.29	3093.71	564.26	2.08	4.52
5C1	1	284.374	81.531	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	2	280.4	81.375	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	3	292.366	70.377	818.80	65.60	1.29	3093.71	564.26	1.98	4.30
5C1	4	294.615	81.009	818.80	65.60	1.29	3093.71	564.26	1.97	4.17
5C1	5	290.642	80.783	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	6	285.177	81.58	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	7	334.974	71.594	818.80	65.60	1.29	3955.83	374.86	2.56	2.56
5C1	8	288.289	81.626	818.80	65.60	1.29	*3093.71	*564.26	1.98	4.16
5C1	9	281.951	81.434	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	10	318.878	81.871	818.80	65.60	1.29	3093.71	564.26	1.95	4.16
5C1	11	292.848	80.966	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	12	296.78	70.861	818.80	65.60	1.29	3093.71	564.26	1.97	4.29
5C1	13	277.589	81.907	818.80	65.60	1.29	3465.90	520.93	2.26	3.77
5C1	14	293.082	80.966	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	15	271.946	81.021	818.80	65.60	1.29	3093.71	564.26	2.00	4.17
5C1	16	277.509	81.245	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	17	294.112	70.564	818.80	65.60	1.29	3093.71	564.26	1.97	4.30
5C1	18	306.295	68.946	818.80	65.60	1.29	3955.83	374.86	2.59	2.59
5C1	19	276.81	81.226	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	20	311.267	81.593	818.80	65.60	1.29	3093.71	564.26	1.96	4.16
5C1	21	275.271	81.171	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	22	296.66	81.094	818.80	65.60	1.29	3093.71	564.26	1.97	4.17
5C1	23	273.62	83.501	818.80	65.60	1.29	3661.57	520.93	2.41	3.75
5C1	24	277.689	81.266	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	25	270.777	80.962	818.80	65.60	1.29	3093.71	564.26	2.00	4.17
5C1	26	276.277	81.185	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	27	278.409	81.245	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	28	331.261	71.348	818.80	65.60	1.29	3955.83	374.86	2.57	2.56
5C1	29	285.559	81.474	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	30	313.653	80.906	818.80	65.60	1.29	3093.71	564.26	1.96	4.17
5C1	31	278.455	81.298	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	32	296.442	81.368	818.80	65.60	1.29	*3093.71	*564.26	1.97	4.17
5C1	33	296.614	70.754	818.80	65.60	1.29	3093.71	564.26	1.97	4.29
5C1	34	280.541	81.477	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	35	292.251	80.744	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	36	312.908	69.393	818.80	65.60	1.29	3955.83	374.86	2.58	2.59
5C1	37	297.291	81.195	818.80	65.60	1.29	3093.71	564.26	1.97	4.17
5C1	38	284.967	81.03	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	39	271.978	80.791	818.80	65.60	1.29	3093.71	564.26	2.00	4.17
5C1	40	294.354	80.96	818.80	65.60	1.29	3093.71	564.26	1.97	4.17
5C1	41	299.367	80.218	818.80	65.60	1.29	3093.71	564.26	1.97	4.18
5C1	42	282.75	82.006	818.80	65.60	1.29	3465.90	520.93	2.26	3.77
5C1	43	302.244	70.664	818.80	65.60	1.29	3093.71	564.26	1.97	4.29
5C1	44	290.022	81.336	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	45	292.555	80.357	818.80	65.60	1.29	3093.71	564.26	1.98	4.18
5C1	46	298.535	80.907	818.80	65.60	1.29	*3093.71	*564.26	1.97	4.17
5C1	47	301.198	71.675	818.80	65.60	1.29	3093.71	564.26	1.97	4.28
5C1	48	334.257	71.982	818.80	65.60	1.29	3696.86	369.88	2.38	2.51
5C1	49	301.582	74.908	818.80	65.60	1.29	3093.71	564.26	1.97	4.24
5C1	50	327.798	78.947	818.80	65.60	1.29	3093.71	564.26	1.94	4.20
5C1	51	366.077	72.448	818.80	65.60	1.29	3093.71	564.26	1.91	4.27
5C1	52	411.959	73.661	818.80	65.60	1.29	3093.71	564.26	1.86	4.26
5C1	53	410.221	89.557	818.80	65.60	1.29	3093.71	564.26	1.86	4.07
5C1	54	435.759	67.041	818.80	65.60	1.29	3093.71	564.26	1.84	4.34
5C1	55	475.701	88.967	818.80	65.60	1.29	3093.71	564.26	1.80	4.08
5C1	56	443.053	77.918	818.80	65.60	1.29	3093.71	564.26	1.83	4.21
5C1	57	184.169	65.733	818.80	65.60	1.29	3268.74	564.26	2.21	4.35
5C1	58	239.803	56.257	818.80	65.60	1.29	3093.71	564.26	2.03	4.46
5C1	59	245.097	58.956	818.80	65.60	1.29	3093.71	564.26	2.02	4.43
5C1	60	212.611	68.326	818.80	65.60	1.29	3093.71	564.26	2.05	4.32
5C1	61	227.394	68.768	818.80	65.60	1.29	3093.71	564.26	2.04	4.32
5C1	62	315.121	68.124	818.80	65.60	1.29	3093.71	564.26	1.95	4.32

Made By KRS 3/29/2012 Job No. P402110046

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Calculations For: ***CUY-2-1441*** *Main Truss, As-Built Floorbeam Ratings*

Interior Floorbeams

5C1 TRUCK

***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
5C1	63	318.13	73.392	818.80	65.60	1.29	3093.71	564.26	1.95	4.26
5C1	64	303.024	74.891	818.80	65.60	1.29	3093.71	564.26	1.97	4.24
5C1	65	303.736	80.022	818.80	65.60	1.29	3661.57	520.93	2.38	3.79
5C1	66	305.691	79.439	818.80	65.60	1.29	*3093.71	*564.26	1.96	4.19
5C1	67	307.13	75.334	818.80	65.60	1.29	3093.71	564.26	1.96	4.24
5C1	68	298.144	67.434	818.80	65.60	1.29	3093.71	564.26	1.97	4.33
5C1	69	307.5	72.667	818.80	65.60	1.29	3093.71	564.26	1.96	4.27
5C1	70	291.429	77.885	818.80	65.60	1.29	3093.71	564.26	1.98	4.21
5C1	71	316.286	74.772	818.80	65.60	1.29	3696.86	369.88	2.39	2.48
5C1	72	282.057	74.677	818.80	65.60	1.29	3093.71	564.26	1.99	4.25
5C1	73	269.013	82.04	818.80	65.60	1.29	*3093.71	*564.26	2.00	4.16
5C1	74	280.029	79.857	818.80	65.60	1.29	3093.71	564.26	1.99	4.19
5C1	75	289.422	76.024	818.80	65.60	1.29	3093.71	564.26	1.98	4.23
5C1	76	295.922	68.186	818.80	65.60	1.29	*3093.71	*564.26	1.97	4.32
5C1	77	287.016	81.406	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	78	289.227	77.43	818.80	65.60	1.29	3093.71	564.26	1.98	4.21
5C1	79	263.727	84.911	818.80	65.60	1.29	3661.57	520.93	2.42	3.73
5C1	80	273.31	79.547	818.80	65.60	1.29	3093.71	564.26	1.99	4.19
5C1	81	294.389	82.777	818.80	65.60	1.29	3093.71	564.26	1.97	4.15
5C1	82	279.124	75.287	818.80	65.60	1.29	3093.71	564.26	1.99	4.24
5C1	83	304.17	65.133	818.80	65.60	1.29	4388.33	399.48	2.91	2.86
5C1	84	308.362	76.007	818.80	65.60	1.29	3093.71	564.26	1.96	4.23
5C1	85	314.514	74.686	818.80	65.60	1.29	3093.71	564.26	1.96	4.25
5C1	86	310.177	73.069	818.80	65.60	1.29	3093.71	564.26	1.96	4.27
5C1	87	312.135	78.05	818.80	65.60	1.29	3661.57	520.93	2.37	3.81
5C1	88	306.188	79.248	818.80	65.60	1.29	3093.71	564.26	1.96	4.19
5C1	89	299.99	78.901	818.80	65.60	1.29	3093.71	564.26	1.97	4.20
5C1	90	301.728	74.591	818.80	65.60	1.29	3093.71	564.26	1.97	4.25
5C1	91	275.901	78.602	818.80	65.60	1.29	3093.71	564.26	1.99	4.20
5C1	92	302.034	75.421	818.80	65.60	1.29	3093.71	564.26	1.97	4.24
5C1	93	278.268	77.087	818.80	65.60	1.29	3093.71	564.26	1.99	4.22
5C1	94	289.01	79.937	818.80	65.60	1.29	*3093.71	*564.26	1.98	4.18
5C1	95	283.747	77.734	818.80	65.60	1.29	3093.71	564.26	1.98	4.21
5C1	96	306.69	69.835	818.80	65.60	1.29	3955.83	374.86	2.59	2.58
5C1	97	272.132	79.237	818.80	65.60	1.29	3093.71	564.26	2.00	4.19
5C1	98	281.544	81.342	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	99	289.098	67.509	818.80	65.60	1.29	3093.71	564.26	1.98	4.33
5C1	100	259.646	81.139	818.80	65.60	1.29	3093.71	564.26	2.01	4.17
5C1	101	279.23	77.296	818.80	65.60	1.29	3093.71	564.26	1.99	4.22
5C1	102	291.192	76.962	818.80	65.60	1.29	3093.71	564.26	1.98	4.22
5C1	103	274.587	81.753	818.80	65.60	1.29	3093.71	564.26	1.99	4.16
5C1	104	301.793	78.883	818.80	65.60	1.29	*3696.86	*369.88	2.41	2.43
5C1	105	293.75	75.85	818.80	65.60	1.29	*3093.71	*564.26	1.97	4.23
5C1	106	310.352	77.449	818.80	65.60	1.29	*3093.71	*564.26	1.96	4.21
5C1	107	309.302	75.049	818.80	65.60	1.29	*3093.71	*564.26	1.96	4.24
5C1	108	306.25	73.983	818.80	65.60	1.29	*3093.71	*564.26	1.96	4.25
5C1	109	303.162	78.608	818.80	65.60	1.29	*3093.71	*564.26	1.97	4.20
5C1	110	318.187	75.781	818.80	65.60	1.29	*3093.71	*564.26	1.95	4.23
5C1	111	323.96	87.806	818.80	65.60	1.29	*3093.71	*564.26	1.95	4.09
5C1	112	356.553	77.092	818.80	65.60	1.29	*3093.71	*564.26	1.92	4.22
5C1	113	428.276	70.317	818.80	65.60	1.29	*3093.71	*564.26	1.85	4.30
5C1	114	420.937	97.178	818.80	65.60	1.29	*3093.71	*564.26	1.85	3.98
5C1	115	448.795	86.044	818.80	65.60	1.29	*3093.71	*564.26	1.83	4.11
5C1	116	494.022	85.942	818.80	65.60	1.29	*3093.71	*564.26	1.79	4.11
5C1	117	495.094	76.603	818.80	65.60	1.29	*3093.71	*564.26	1.78	4.22
5C1	118	521.389	78.591	818.80	65.60	1.29	*3093.71	*564.26	1.76	4.20
5C1	119	483.196	103.393	818.80	65.60	1.29	*3093.71	*564.26	1.80	3.91
5C1	120	439.713	100.453	818.80	65.60	1.29	*3093.71	*564.26	1.84	3.94
5C1	121	440.977	83.019	818.80	65.60	1.29	*3093.71	*564.26	1.84	4.15
5C1	122	405.919	70.654	818.80	65.60	1.29	*3093.71	*564.26	1.87	4.29
5C1	123	341.782	69.981	818.80	65.60	1.29	*3093.71	*564.26	1.93	4.30
5C1	124	300.257	72.65	818.80	65.60	1.29	*3093.71	*564.26	1.97	4.27
5C1	125	344.181	70.674	818.80	65.60	1.29	*3093.71	*564.26	1.93	4.29
5C1	126	180.077	40.401	818.80	65.60	1.29	3696.86	369.88	2.52	2.88
									1.76	2.43
									118	104

AS-INSPECTED FLOORBEAM RATINGS

North Bracket Floorbeams
HS-20 TRUCK

***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment		Rating Factor - Shear	
			Moment	Shear	Moment	Shear		Moment	Shear	Inventory	Operating	Inventory	Operating
			k-ft	k	k-ft	k		k-ft	k				
HS-20	0	N	282.39	42.30	517.98	84.43	1.3	2229.84	452.13	1.27	2.13	1.67	2.78
HS-20	1	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	2	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	3	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	4	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	5	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	6	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	7	N	282.39	42.30	517.98	84.43	1.3	2229.84	452.13	1.27	2.13	1.67	2.78
HS-20	8	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	9	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	10	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	11	N	282.39	42.30	517.98	84.43	1.3	2207.94	644.78	1.26	2.10	2.48	4.13
HS-20	12	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	13	N	282.39	42.30	517.98	84.43	1.3	2642.63	484.92	1.56	2.60	1.81	3.01
HS-20	14	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	15	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	16	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	17	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	18	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	19	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	20	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	21	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	22	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	23	N	282.39	42.30	517.98	84.43	1.3	2642.63	484.92	1.56	2.60	1.81	3.01
HS-20	24	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	25	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	26	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	27	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	28	N	282.39	42.30	517.98	84.43	1.3	2229.84	452.13	1.27	2.13	1.67	2.78
HS-20	29	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	30	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	31	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	32	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	33	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	34	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	35	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	36	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	37	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	38	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	39	N	282.39	42.30	517.98	84.43	1.3	2362.62	452.13	1.37	2.28	1.67	2.78
HS-20	40	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	41	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	42	N	282.39	42.30	517.98	84.43	1.3	2642.63	484.92	1.56	2.60	1.81	3.01
HS-20	43	N	282.39	42.30	517.98	84.43	1.3	2342.47	644.78	1.35	2.26	2.48	4.13
HS-20	44	N	264.265	31.36	513.15	84.43	1.3	2362.62	452.13	1.39	2.33	1.73	2.88
HS-20	45	N	283.125	43.21	495.99	53.39	1.3	2342.47	644.78	1.41	2.36	3.91	6.52
HS-20	46	N	257.829	31.27	469.57	53.39	1.3	2362.62	452.13	1.53	2.55	2.73	4.56
HS-20	47	N	283.172	44.21	431.48	53.39	1.3	2342.47	644.78	1.62	2.71	3.90	6.51
HS-20	48	N	292.85	59.51	389.81	53.39	1.3	2229.84	452.13	1.68	2.81	2.49	4.15
HS-20	49	N	314.78	43.36	477.42	53.39	1.3	2229.84	452.13	1.35	2.26	2.63	4.39
HS-20	50	N	294.352	40.99	578.59	84.43	1.3	2342.47	644.78	1.20	2.00	2.48	4.15
HS-20	51	N	351.057	49.44	677.85	84.43	1.3	2740.68	691.43	1.19	1.99	2.63	4.40
HS-20	52	N	404.518	55.18	758.31	84.43	1.3	2740.68	691.43	1.04	1.73	2.60	4.34
HS-20	53	N	399.415	40.60	819.53	84.43	1.3	3433.86	446.09	1.26	2.10	1.65	2.76
HS-20	54	N	437.791	63.85	862.01	84.43	1.3	3127.10	735.69	1.05	1.76	2.74	4.57
HS-20	55	N	470.587	46.70	885.75	84.43	1.3	3127.10	735.69	1.01	1.68	2.83	4.73
HS-20	56	N	461.531	61.36	891.29	84.43	1.3	3127.10	735.69	1.01	1.68	2.75	4.60
HS-20	57	N	424.754	44.37	878.10	84.43	1.3	2642.63	484.92	0.84	1.41	1.79	2.99
HS-20	58	N	439.562	60.31	846.18	84.43	1.3	3127.10	735.69	1.07	1.79	2.76	4.61
HS-20	59	N	401.327	53.52	795.33	84.43	1.3	3127.10	735.69	1.16	1.94	2.80	4.67
HS-20	60	N	378.316	40.14	725.72	84.43	1.3	3433.86	446.09	1.44	2.40	1.65	2.76
HS-20	61	N	368.501	58.61	637.32	84.43	1.3	2740.68	691.43	1.26	2.10	2.58	4.31
HS-20	62	N	311.576	50.08	517.99	84.43	1.3	2342.47	644.78	1.33	2.21	2.43	4.06
HS-20	63	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	64	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	65	N	311.576	50.08	517.99	84.43	1.3	2642.63	484.92	1.53	2.56	1.76	2.94
HS-20	66	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71

Calculations For. ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

North Bracket Floorbeams
HS-20 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment		Rating Factor - Shear	
			Moment k-ft	Shear k	Moment k-ft	Shear k		Moment k-ft	Shear k	Inventory	Operating	Inventory	Operating
HS-20	67	N	311.576	50.08	517.99	84.43	1.3	2342.47	644.78	1.33	2.21	2.43	4.06
HS-20	68	N	311.576	50.08	517.99	84.43	1.3	2342.47	644.78	1.33	2.21	2.43	4.06
HS-20	69	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	70	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	71	N	311.576	50.08	517.99	84.43	1.3	2229.84	452.13	1.25	2.08	1.63	2.71
HS-20	72	N	311.576	50.08	517.99	84.43	1.3	2342.47	644.78	1.33	2.21	2.43	4.06
HS-20	73	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	74	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	75	N	311.576	50.08	517.99	84.43	1.3	*2362.62	*452.13	1.34	2.24	1.63	2.71
HS-20	76	N	311.576	50.08	517.99	84.43	1.3	*2362.62	*452.13	1.34	2.24	1.63	2.71
HS-20	77	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	78	N	311.576	50.08	517.99	84.43	1.3	*2362.62	*452.13	1.34	2.24	1.63	2.71
HS-20	79	N	311.576	50.08	517.99	84.43	1.3	2642.63	484.92	1.53	2.56	1.76	2.94
HS-20	80	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	81	N	311.576	50.08	517.99	84.43	1.3	2229.84	452.13	1.25	2.08	1.63	2.71
HS-20	82	N	311.576	50.08	517.99	84.43	1.3	*2229.84	*452.13	1.25	2.08	1.63	2.71
HS-20	83	N	311.576	50.08	517.99	84.43	1.3	2570.20	484.92	1.48	2.47	1.76	2.94
HS-20	84	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	85	N	311.576	50.08	517.99	84.43	1.3	2229.84	452.13	1.25	2.08	1.63	2.71
HS-20	86	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	87	N	311.576	50.08	517.99	84.43	1.3	2570.20	484.92	1.48	2.47	1.76	2.94
HS-20	88	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	89	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	90	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	91	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	92	N	311.576	50.08	517.99	84.43	1.3	*2362.62	*452.13	1.34	2.24	1.63	2.71
HS-20	93	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	94	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	95	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	96	N	311.576	50.08	517.99	84.43	1.3	3433.86	446.09	2.07	3.46	1.60	2.67
HS-20	97	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	98	N	311.576	50.08	517.99	84.43	1.3	2342.47	644.78	1.33	2.21	2.43	4.06
HS-20	99	N	311.576	50.08	517.99	84.43	1.3	2342.47	644.78	1.33	2.21	2.43	4.06
HS-20	100	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	101	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	102	N	311.576	50.08	517.99	84.43	1.3	2349.00	645.68	1.33	2.22	2.44	4.07
HS-20	103	N	311.576	50.08	517.99	84.43	1.3	2362.62	452.13	1.34	2.24	1.63	2.71
HS-20	104	N	311.576	50.08	517.99	84.43	1.3	2570.20	484.92	1.48	2.47	1.76	2.94
HS-20	105	N	311.576	50.08	517.99	84.43	1.3	*2229.84	*452.13	1.25	2.08	1.63	2.71
HS-20	106	N	311.576	50.08	517.99	84.43	1.3	2365.81	452.50	1.34	2.24	1.63	2.72
HS-20	107	N	311.576	50.08	517.99	84.43	1.3	2365.81	452.50	1.34	2.24	1.63	2.72
HS-20	108	N	311.576	50.08	517.99	84.43	1.3	2365.81	452.50	1.34	2.24	1.63	2.72
HS-20	109	N	311.576	50.08	517.99	84.43	1.3	2229.84	452.13	1.25	2.08	1.63	2.71
HS-20	110	N	287.203	39.16	517.99	84.43	1.3	2362.62	452.13	1.36	2.27	1.68	2.81
HS-20	111	N	301.9	32.38	609.59	84.43	1.3	3860.66	482.61	2.02	3.37	1.85	3.09
HS-20	112	N	334.932	44.08	694.02	84.43	1.3	3860.66	482.61	1.75	2.92	1.79	2.98
HS-20	113	N	401.528	58.27	777.11	84.43	1.3	3860.66	482.61	1.52	2.54	1.71	2.85
HS-20	114	N	384.213	35.28	860.20	84.43	1.3	3860.66	482.61	1.39	2.31	1.83	3.06
HS-20	115	N	422.459	50.52	943.42	84.43	1.3	3860.66	482.61	1.24	2.08	1.75	2.92
HS-20	116	N	470.911	55.78	1024.32	106.77	1.3	*3860.66	*482.61	1.12	1.88	1.36	2.27
HS-20	117	N	501.076	64.90	1085.54	106.77	1.3	*3860.66	*482.61	1.05	1.75	1.32	2.21
HS-20	118	N	535.154	62.87	1105.63	106.77	1.3	*3860.66	*482.61	1.01	1.69	1.33	2.22
HS-20	119	N	495.826	39.68	1084.55	106.77	1.3	3869.69	483.38	1.05	1.76	1.43	2.39
HS-20	120	N	458.371	39.81	1022.92	106.77	1.3	3860.66	482.61	1.13	1.89	1.43	2.39
HS-20	121	N	443.705	52.09	939.61	84.43	1.3	*3850.97	*456.22	1.24	2.06	1.63	2.72
HS-20	122	N	395.031	53.32	825.80	84.43	1.3	*3860.35	*456.22	1.44	2.40	1.62	2.71
HS-20	123	N	313.192	45.27	679.58	84.43	1.3	*3860.66	*482.61	1.80	3.01	1.78	2.97
HS-20	124	N	261.218	42.59	502.64	53.39	1.3	*3860.66	*482.61	2.48	4.15	2.84	4.74
HS-20	125	N	214.221	34.74	368.47	53.39	1.3	*2342.47	*644.78	1.99	3.31	3.98	6.65
HS-20	126	N	98.761	19.85	166.68	31.04	1.3	2362.62	452.13	4.75	7.93	4.87	8.13
										0.84	1.41	1.32	2.21
										57	57	117	117

North Bracket Floorbeams
2F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
2F1	0	N	282.39	42.30	263.18	42.90	1.3	2229.84	452.13	4.19	5.48
2F1	1	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	2	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	3	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
2F1	4	N	282.39	42.30	263.18	42.90	1.3	*2362.62	*452.13	4.49	5.48
2F1	5	N	282.39	42.30	263.18	42.90	1.3	*2362.62	*452.13	4.49	5.48
2F1	6	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	7	N	282.39	42.30	263.18	42.90	1.3	2229.84	452.13	4.19	5.48
2F1	8	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	9	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	10	N	282.39	42.30	263.18	42.90	1.3	*2362.62	*452.13	4.49	5.48
2F1	11	N	282.39	42.30	263.18	42.90	1.3	2207.94	644.78	4.14	8.14
2F1	12	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
2F1	13	N	282.39	42.30	263.18	42.90	1.3	2642.63	484.92	5.12	5.93
2F1	14	N	282.39	42.30	263.18	42.90	1.3	*2362.62	*452.13	4.49	5.48
2F1	15	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	16	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	17	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
2F1	18	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	19	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	20	N	282.39	42.30	263.18	42.90	1.3	*2362.62	*452.13	4.49	5.48
2F1	21	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	22	N	282.39	42.30	263.18	42.90	1.3	*2362.62	*452.13	4.49	5.48
2F1	23	N	282.39	42.30	263.18	42.90	1.3	2642.63	484.92	5.12	5.93
2F1	24	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	25	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	26	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	27	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	28	N	282.39	42.30	263.18	42.90	1.3	2229.84	452.13	4.19	5.48
2F1	29	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	30	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
2F1	31	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	32	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
2F1	33	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
2F1	34	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	35	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
2F1	36	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	37	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
2F1	38	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	39	N	282.39	42.30	263.18	42.90	1.3	2362.62	452.13	4.49	5.48
2F1	40	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
2F1	41	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
2F1	42	N	282.39	42.30	263.18	42.90	1.3	2642.63	484.92	5.12	5.93
2F1	43	N	282.39	42.30	263.18	42.90	1.3	2342.47	644.78	4.44	8.14
2F1	44	N	264.265	31.36	260.72	42.90	1.3	2362.62	452.13	4.58	5.67
2F1	45	N	283.125	43.21	251.98	27.24	1.3	2342.47	644.78	4.64	12.79
2F1	46	N	257.829	31.27	238.50	27.24	1.3	2362.62	452.13	5.03	8.94
2F1	47	N	283.172	44.21	219.06	27.24	1.3	2342.47	644.78	5.33	12.76
2F1	48	N	292.85	59.51	197.80	27.24	1.3	2229.84	452.13	5.53	8.14
2F1	49	N	314.78	43.36	242.51	27.24	1.3	*2229.84	*452.13	4.44	8.60
2F1	50	N	294.352	40.99	293.97	42.90	1.3	2342.47	644.78	3.94	8.16
2F1	51	N	351.057	49.44	344.40	42.90	1.3	2740.68	691.43	3.92	8.65
2F1	52	N	404.518	55.18	385.28	42.90	1.3	2740.68	691.43	3.40	8.55
2F1	53	N	399.415	40.60	416.39	42.90	1.3	3433.86	446.09	4.14	5.43
2F1	54	N	437.791	63.85	437.98	42.90	1.3	3127.10	735.69	3.46	9.00
2F1	55	N	470.587	46.70	450.04	42.90	1.3	3127.10	735.69	3.31	9.31
2F1	56	N	461.531	61.36	452.85	42.90	1.3	3127.10	735.69	3.30	9.05
2F1	57	N	424.754	44.37	446.15	42.90	1.3	2642.63	484.92	2.77	5.89
2F1	58	N	439.562	60.31	429.93	42.90	1.3	3127.10	735.69	3.52	9.07
2F1	59	N	401.327	53.52	404.09	42.90	1.3	3127.10	735.69	3.82	9.19
2F1	60	N	378.316	40.14	368.73	42.90	1.3	3433.86	446.09	4.72	5.43
2F1	61	N	368.501	58.61	323.81	42.90	1.3	2740.68	691.43	4.13	8.49
2F1	62	N	311.576	50.08	263.18	42.90	1.3	2342.47	644.78	4.36	8.00
2F1	63	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	64	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	65	N	311.576	50.08	263.18	42.90	1.3	2642.63	484.92	5.03	5.79
2F1	66	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34

North Bracket Floorbeams
2F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
2F1	67	N	311.576	50.08	263.18	42.90	1.3	2342.47	644.78	4.36	8.00
2F1	68	N	311.576	50.08	263.18	42.90	1.3	2342.47	644.78	4.36	8.00
2F1	69	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	70	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	71	N	311.576	50.08	263.18	42.90	1.3	2229.84	452.13	4.10	5.34
2F1	72	N	311.576	50.08	263.18	42.90	1.3	2342.47	644.78	4.36	8.00
2F1	73	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	74	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	75	N	311.576	50.08	263.18	42.90	1.3	*2362.62	*452.13	4.40	5.34
2F1	76	N	311.576	50.08	263.18	42.90	1.3	*2362.62	*452.13	4.40	5.34
2F1	77	N	311.576	50.08	263.18	42.90	1.3	*2362.62	*452.13	4.40	5.34
2F1	78	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	79	N	311.576	50.08	263.18	42.90	1.3	2642.63	484.92	5.03	5.79
2F1	80	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	81	N	311.576	50.08	263.18	42.90	1.3	2229.84	452.13	4.10	5.34
2F1	82	N	311.576	50.08	263.18	42.90	1.3	2229.84	452.13	4.10	5.34
2F1	83	N	311.576	50.08	263.18	42.90	1.3	2570.20	484.92	4.87	5.79
2F1	84	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	85	N	311.576	50.08	263.18	42.90	1.3	2229.84	452.13	4.10	5.34
2F1	86	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	87	N	311.576	50.08	263.18	42.90	1.3	2570.20	484.92	4.87	5.79
2F1	88	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	89	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	90	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	91	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	92	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	93	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	94	N	311.576	50.08	263.18	42.90	1.3	*2362.62	*452.13	4.40	5.34
2F1	95	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	96	N	311.576	50.08	263.18	42.90	1.3	3433.86	446.09	6.81	5.26
2F1	97	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	98	N	311.576	50.08	263.18	42.90	1.3	2342.47	644.78	4.36	8.00
2F1	99	N	311.576	50.08	263.18	42.90	1.3	2342.47	644.78	4.36	8.00
2F1	100	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	101	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	102	N	311.576	50.08	263.18	42.90	1.3	2349.00	645.68	4.37	8.01
2F1	103	N	311.576	50.08	263.18	42.90	1.3	2362.62	452.13	4.40	5.34
2F1	104	N	311.576	50.08	263.18	42.90	1.3	2570.20	484.92	4.87	5.79
2F1	105	N	311.576	50.08	263.18	42.90	1.3	2229.84	452.13	4.10	5.34
2F1	106	N	311.576	50.08	263.18	42.90	1.3	2365.81	452.50	4.41	5.34
2F1	107	N	311.576	50.08	263.18	42.90	1.3	2365.81	452.50	4.41	5.34
2F1	108	N	311.576	50.08	263.18	42.90	1.3	2365.81	452.50	4.41	5.34
2F1	109	N	311.576	50.08	263.18	42.90	1.3	*2229.84	*452.13	4.10	5.34
2F1	110	N	287.203	39.16	263.18	42.90	1.3	2362.62	452.13	4.47	5.53
2F1	111	N	301.9	32.38	309.72	42.90	1.3	3860.66	482.61	6.63	6.08
2F1	112	N	334.932	44.08	352.62	42.90	1.3	*3860.66	*482.61	5.75	5.87
2F1	113	N	401.528	58.27	394.84	42.90	1.3	*3860.66	*482.61	5.00	5.61
2F1	114	N	384.213	35.28	437.05	42.90	1.3	3860.66	482.61	4.55	6.02
2F1	115	N	422.459	50.52	479.34	42.90	1.3	*3860.66	*482.61	4.09	5.75
2F1	116	N	470.911	55.78	520.47	54.48	1.3	*3860.66	*482.61	3.69	4.45
2F1	117	N	501.076	64.90	551.71	54.48	1.3	*3860.66	*482.61	3.44	4.33
2F1	118	N	535.154	62.87	561.95	54.48	1.3	*3860.66	*482.61	3.33	4.35
2F1	119	N	495.826	39.68	551.20	54.48	1.3	3869.69	483.38	3.46	4.69
2F1	120	N	458.371	39.81	519.75	54.48	1.3	*3860.66	*482.61	3.72	4.68
2F1	121	N	443.705	52.09	477.40	42.90	1.3	*3850.97	*456.22	4.06	5.36
2F1	122	N	395.031	53.32	419.58	42.90	1.3	*3860.35	*456.22	4.72	5.34
2F1	123	N	313.192	45.27	345.28	42.90	1.3	*3860.66	*482.61	5.92	5.85
2F1	124	N	261.218	42.59	255.38	27.24	1.3	*3860.66	*482.61	8.16	9.28
2F1	125	N	214.221	34.74	186.91	27.24	1.3	2342.47	644.78	6.53	13.02
2F1	126	N	98.761	19.85	84.06	15.65	1.3	2362.62	452.13	15.73	16.11
										2.77	4.33
										57	501

North Bracket Floorbeams

3F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
3F1	0	N	282.39	42.30	400.75	65.32	1.3	2229.84	452.13	2.75	3.60
3F1	1	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	2	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	3	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
3F1	4	N	282.39	42.30	400.75	65.32	1.3	*2362.62	*452.13	2.95	3.60
3F1	5	N	282.39	42.30	400.75	65.32	1.3	*2362.62	*452.13	2.95	3.60
3F1	6	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	7	N	282.39	42.30	400.75	65.32	1.3	2229.84	452.13	2.75	3.60
3F1	8	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	9	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	10	N	282.39	42.30	400.75	65.32	1.3	*2362.62	*452.13	2.95	3.60
3F1	11	N	282.39	42.30	400.75	65.32	1.3	2207.94	644.78	2.72	5.34
3F1	12	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
3F1	13	N	282.39	42.30	400.75	65.32	1.3	2642.63	484.92	3.36	3.89
3F1	14	N	282.39	42.30	400.75	65.32	1.3	*2362.62	*452.13	2.95	3.60
3F1	15	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	16	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	17	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
3F1	18	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	19	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	20	N	282.39	42.30	400.75	65.32	1.3	*2362.62	*452.13	2.95	3.60
3F1	21	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	22	N	282.39	42.30	400.75	65.32	1.3	*2362.62	*452.13	2.95	3.60
3F1	23	N	282.39	42.30	400.75	65.32	1.3	2642.63	484.92	3.36	3.89
3F1	24	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	25	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	26	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	27	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	28	N	282.39	42.30	400.75	65.32	1.3	2229.84	452.13	2.75	3.60
3F1	29	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	30	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
3F1	31	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	32	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
3F1	33	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
3F1	34	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	35	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
3F1	36	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	37	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
3F1	38	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	39	N	282.39	42.30	400.75	65.32	1.3	2362.62	452.13	2.95	3.60
3F1	40	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
3F1	41	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
3F1	42	N	282.39	42.30	400.75	65.32	1.3	2642.63	484.92	3.36	3.89
3F1	43	N	282.39	42.30	400.75	65.32	1.3	2342.47	644.78	2.92	5.34
3F1	44	N	264.265	31.36	397.02	65.32	1.3	2362.62	452.13	3.01	3.73
3F1	45	N	283.125	43.21	383.74	41.30	1.3	2342.47	644.78	3.04	8.43
3F1	46	N	257.829	31.27	363.30	41.30	1.3	2362.62	452.13	3.30	5.90
3F1	47	N	283.172	44.21	333.84	41.30	1.3	2342.47	644.78	3.50	8.42
3F1	48	N	292.85	59.51	301.60	41.30	1.3	2229.84	452.13	3.63	5.37
3F1	49	N	314.78	43.36	369.38	41.30	1.3	*2229.84	*452.13	2.92	5.67
3F1	50	N	294.352	40.99	447.64	65.32	1.3	2342.47	644.78	2.59	5.36
3F1	51	N	351.057	49.44	524.44	65.32	1.3	2740.68	691.43	2.58	5.68
3F1	52	N	404.518	55.18	586.69	65.32	1.3	2740.68	691.43	2.23	5.61
3F1	53	N	399.415	40.60	634.05	65.32	1.3	3433.86	446.09	2.72	3.56
3F1	54	N	437.791	63.85	666.92	65.32	1.3	3127.10	735.69	2.27	5.91
3F1	55	N	470.587	46.70	685.29	65.32	1.3	3127.10	735.69	2.17	6.11
3F1	56	N	461.531	61.36	689.58	65.32	1.3	3127.10	735.69	2.17	5.94
3F1	57	N	424.754	44.37	679.37	65.32	1.3	2642.63	484.92	1.82	3.87
3F1	58	N	439.562	60.31	654.68	65.32	1.3	3127.10	735.69	2.31	5.95
3F1	59	N	401.327	53.52	615.33	65.32	1.3	3127.10	735.69	2.51	6.03
3F1	60	N	378.316	40.14	561.47	65.32	1.3	3433.86	446.09	3.10	3.57
3F1	61	N	368.501	58.61	493.08	65.32	1.3	2740.68	691.43	2.71	5.57
3F1	62	N	311.576	50.08	400.76	65.32	1.3	2342.47	644.78	2.86	5.25
3F1	63	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	64	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	65	N	311.576	50.08	400.76	65.32	1.3	2642.63	484.92	3.30	3.80
3F1	66	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51

Calculations For. ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

North Bracket Floorbeams

3F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
3F1	67	N	311.576	50.08	400.76	65.32	1.3	2342.47	644.78	2.86	5.25
3F1	68	N	311.576	50.08	400.76	65.32	1.3	2342.47	644.78	2.86	5.25
3F1	69	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	70	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	71	N	311.576	50.08	400.76	65.32	1.3	2229.84	452.13	2.69	3.51
3F1	72	N	311.576	50.08	400.76	65.32	1.3	2342.47	644.78	2.86	5.25
3F1	73	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	74	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	75	N	311.576	50.08	400.76	65.32	1.3	*2362.62	*452.13	2.89	3.51
3F1	76	N	311.576	50.08	400.76	65.32	1.3	*2362.62	*452.13	2.89	3.51
3F1	77	N	311.576	50.08	400.76	65.32	1.3	*2362.62	*452.13	2.89	3.51
3F1	78	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	79	N	311.576	50.08	400.76	65.32	1.3	2642.63	484.92	3.30	3.80
3F1	80	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	81	N	311.576	50.08	400.76	65.32	1.3	2229.84	452.13	2.69	3.51
3F1	82	N	311.576	50.08	400.76	65.32	1.3	2229.84	452.13	2.69	3.51
3F1	83	N	311.576	50.08	400.76	65.32	1.3	2570.20	484.92	3.20	3.80
3F1	84	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	85	N	311.576	50.08	400.76	65.32	1.3	2229.84	452.13	2.69	3.51
3F1	86	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	87	N	311.576	50.08	400.76	65.32	1.3	2570.20	484.92	3.20	3.80
3F1	88	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	89	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	90	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	91	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	92	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	93	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	94	N	311.576	50.08	400.76	65.32	1.3	*2362.62	*452.13	2.89	3.51
3F1	95	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	96	N	311.576	50.08	400.76	65.32	1.3	3433.86	446.09	4.47	3.45
3F1	97	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	98	N	311.576	50.08	400.76	65.32	1.3	2342.47	644.78	2.86	5.25
3F1	99	N	311.576	50.08	400.76	65.32	1.3	2342.47	644.78	2.86	5.25
3F1	100	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	101	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	102	N	311.576	50.08	400.76	65.32	1.3	2349.00	645.68	2.87	5.26
3F1	103	N	311.576	50.08	400.76	65.32	1.3	2362.62	452.13	2.89	3.51
3F1	104	N	311.576	50.08	400.76	65.32	1.3	2570.20	484.92	3.20	3.80
3F1	105	N	311.576	50.08	400.76	65.32	1.3	2229.84	452.13	2.69	3.51
3F1	106	N	311.576	50.08	400.76	65.32	1.3	2365.81	452.50	2.90	3.51
3F1	107	N	311.576	50.08	400.76	65.32	1.3	2365.81	452.50	2.90	3.51
3F1	108	N	311.576	50.08	400.76	65.32	1.3	2365.81	452.50	2.90	3.51
3F1	109	N	311.576	50.08	400.76	65.32	1.3	*2229.84	*452.13	2.69	3.51
3F1	110	N	287.203	39.16	400.76	65.32	1.3	2362.62	452.13	2.94	3.63
3F1	111	N	301.9	32.38	471.63	65.32	1.3	3860.66	482.61	4.35	3.99
3F1	112	N	334.932	44.08	536.95	65.32	1.3	*3860.66	*482.61	3.77	3.85
3F1	113	N	401.528	58.27	601.23	65.32	1.3	*3860.66	*482.61	3.29	3.69
3F1	114	N	384.213	35.28	665.52	65.32	1.3	3860.66	482.61	2.99	3.96
3F1	115	N	422.459	50.52	729.91	65.32	1.3	*3860.66	*482.61	2.68	3.78
3F1	116	N	470.911	55.78	792.50	82.59	1.3	*3860.66	*482.61	2.43	2.94
3F1	117	N	501.076	64.90	839.85	82.59	1.3	*3860.66	*482.61	2.26	2.85
3F1	118	N	535.154	62.87	855.39	82.59	1.3	*3860.66	*482.61	2.19	2.87
3F1	119	N	495.826	39.68	839.09	82.59	1.3	3869.69	483.38	2.27	3.09
3F1	120	N	458.371	39.81	791.41	82.59	1.3	*3860.66	*482.61	2.44	3.09
3F1	121	N	443.705	52.09	726.96	65.32	1.3	*3850.97	*456.22	2.67	3.52
3F1	122	N	395.031	53.32	638.91	65.32	1.3	*3860.35	*456.22	3.10	3.50
3F1	123	N	313.192	45.27	525.78	65.32	1.3	*3860.66	*482.61	3.89	3.84
3F1	124	N	261.218	42.59	388.89	41.30	1.3	*3860.66	*482.61	5.36	6.12
3F1	125	N	214.221	34.74	285.10	41.30	1.3	2342.47	644.78	4.28	8.59
3F1	126	N	98.761	19.85	129.00	24.02	1.3	2362.62	452.13	10.25	10.50
										1.82	2.85
										57	501

North Bracket Floorbeams
4F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
4F1	0	N	282.39	42.30	452.80	73.80	1.3	2229.84	452.13	2.43	3.18
4F1	1	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	2	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	3	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
4F1	4	N	282.39	42.30	452.80	73.80	1.3	*2362.62	*452.13	2.61	3.18
4F1	5	N	282.39	42.30	452.80	73.80	1.3	*2362.62	*452.13	2.61	3.18
4F1	6	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	7	N	282.39	42.30	452.80	73.80	1.3	2229.84	452.13	2.43	3.18
4F1	8	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	9	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	10	N	282.39	42.30	452.80	73.80	1.3	*2362.62	*452.13	2.61	3.18
4F1	11	N	282.39	42.30	452.80	73.80	1.3	2207.94	644.78	2.41	4.73
4F1	12	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
4F1	13	N	282.39	42.30	452.80	73.80	1.3	2642.63	484.92	2.97	3.45
4F1	14	N	282.39	42.30	452.80	73.80	1.3	*2362.62	*452.13	2.61	3.18
4F1	15	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	16	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	17	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
4F1	18	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	19	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	20	N	282.39	42.30	452.80	73.80	1.3	*2362.62	*452.13	2.61	3.18
4F1	21	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	22	N	282.39	42.30	452.80	73.80	1.3	*2362.62	*452.13	2.61	3.18
4F1	23	N	282.39	42.30	452.80	73.80	1.3	2642.63	484.92	2.97	3.45
4F1	24	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	25	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	26	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	27	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	28	N	282.39	42.30	452.80	73.80	1.3	2229.84	452.13	2.43	3.18
4F1	29	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	30	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
4F1	31	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	32	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
4F1	33	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
4F1	34	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	35	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
4F1	36	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	37	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
4F1	38	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	39	N	282.39	42.30	452.80	73.80	1.3	2362.62	452.13	2.61	3.18
4F1	40	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
4F1	41	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
4F1	42	N	282.39	42.30	452.80	73.80	1.3	2642.63	484.92	2.97	3.45
4F1	43	N	282.39	42.30	452.80	73.80	1.3	2342.47	644.78	2.58	4.73
4F1	44	N	264.265	31.36	448.58	73.80	1.3	2362.62	452.13	2.66	3.30
4F1	45	N	283.125	43.21	433.58	46.67	1.3	2342.47	644.78	2.69	7.46
4F1	46	N	257.829	31.27	410.49	46.67	1.3	2362.62	452.13	2.92	5.22
4F1	47	N	283.172	44.21	377.19	46.67	1.3	2342.47	644.78	3.10	7.45
4F1	48	N	292.85	59.51	340.76	46.67	1.3	2229.84	452.13	3.21	4.75
4F1	49	N	314.78	43.36	417.35	46.67	1.3	*2229.84	*452.13	2.58	5.02
4F1	50	N	294.352	40.99	505.79	73.80	1.3	2342.47	644.78	2.29	4.74
4F1	51	N	351.057	49.44	592.56	73.80	1.3	2740.68	691.43	2.28	5.03
4F1	52	N	404.518	55.18	662.89	73.80	1.3	2740.68	691.43	1.98	4.97
4F1	53	N	399.415	40.60	716.41	73.80	1.3	3433.86	446.09	2.41	3.15
4F1	54	N	437.791	63.85	753.55	73.80	1.3	3127.10	735.69	2.01	5.23
4F1	55	N	470.587	46.70	774.30	73.80	1.3	3127.10	735.69	1.92	5.41
4F1	56	N	461.531	61.36	779.14	73.80	1.3	3127.10	735.69	1.92	5.26
4F1	57	N	424.754	44.37	767.61	73.80	1.3	2642.63	484.92	1.61	3.43
4F1	58	N	439.562	60.31	739.71	73.80	1.3	3127.10	735.69	2.04	5.27
4F1	59	N	401.327	53.52	695.25	73.80	1.3	3127.10	735.69	2.22	5.34
4F1	60	N	378.316	40.14	634.40	73.80	1.3	3433.86	446.09	2.74	3.16
4F1	61	N	368.501	58.61	557.12	73.80	1.3	2740.68	691.43	2.40	4.93
4F1	62	N	311.576	50.08	452.81	73.80	1.3	2342.47	644.78	2.53	4.65
4F1	63	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	64	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	65	N	311.576	50.08	452.81	73.80	1.3	2642.63	484.92	2.92	3.37
4F1	66	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10

Calculations For. ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

North Bracket Floorbeams
4F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
4F1	67	N	311.576	50.08	452.81	73.80	1.3	2342.47	644.78	2.53	4.65
4F1	68	N	311.576	50.08	452.81	73.80	1.3	2342.47	644.78	2.53	4.65
4F1	69	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	70	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	71	N	311.576	50.08	452.81	73.80	1.3	2229.84	452.13	2.38	3.10
4F1	72	N	311.576	50.08	452.81	73.80	1.3	2342.47	644.78	2.53	4.65
4F1	73	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	74	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	75	N	311.576	50.08	452.81	73.80	1.3	*2362.62	*452.13	2.56	3.10
4F1	76	N	311.576	50.08	452.81	73.80	1.3	*2362.62	*452.13	2.56	3.10
4F1	77	N	311.576	50.08	452.81	73.80	1.3	*2362.62	*452.13	2.56	3.10
4F1	78	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	79	N	311.576	50.08	452.81	73.80	1.3	2642.63	484.92	2.92	3.37
4F1	80	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	81	N	311.576	50.08	452.81	73.80	1.3	2229.84	452.13	2.38	3.10
4F1	82	N	311.576	50.08	452.81	73.80	1.3	2229.84	452.13	2.38	3.10
4F1	83	N	311.576	50.08	452.81	73.80	1.3	2570.20	484.92	2.83	3.37
4F1	84	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	85	N	311.576	50.08	452.81	73.80	1.3	2229.84	452.13	2.38	3.10
4F1	86	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	87	N	311.576	50.08	452.81	73.80	1.3	2570.20	484.92	2.83	3.37
4F1	88	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	89	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	90	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	91	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	92	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	93	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	94	N	311.576	50.08	452.81	73.80	1.3	*2362.62	*452.13	2.56	3.10
4F1	95	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	96	N	311.576	50.08	452.81	73.80	1.3	3433.86	446.09	3.96	3.05
4F1	97	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	98	N	311.576	50.08	452.81	73.80	1.3	2342.47	644.78	2.53	4.65
4F1	99	N	311.576	50.08	452.81	73.80	1.3	2342.47	644.78	2.53	4.65
4F1	100	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	101	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	102	N	311.576	50.08	452.81	73.80	1.3	2349.00	645.68	2.54	4.65
4F1	103	N	311.576	50.08	452.81	73.80	1.3	2362.62	452.13	2.56	3.10
4F1	104	N	311.576	50.08	452.81	73.80	1.3	2570.20	484.92	2.83	3.37
4F1	105	N	311.576	50.08	452.81	73.80	1.3	2229.84	452.13	2.38	3.10
4F1	106	N	311.576	50.08	452.81	73.80	1.3	2365.81	452.50	2.56	3.11
4F1	107	N	311.576	50.08	452.81	73.80	1.3	2365.81	452.50	2.56	3.11
4F1	108	N	311.576	50.08	452.81	73.80	1.3	2365.81	452.50	2.56	3.11
4F1	109	N	311.576	50.08	452.81	73.80	1.3	*2229.84	*452.13	2.38	3.10
4F1	110	N	287.203	39.16	452.81	73.80	1.3	2362.62	452.13	2.60	3.22
4F1	111	N	301.9	32.38	532.89	73.80	1.3	3860.66	482.61	3.85	3.53
4F1	112	N	334.932	44.08	606.70	73.80	1.3	*3860.66	*482.61	3.34	3.41
4F1	113	N	401.528	58.27	679.33	73.80	1.3	*3860.66	*482.61	2.91	3.26
4F1	114	N	384.213	35.28	751.96	73.80	1.3	3860.66	482.61	2.64	3.50
4F1	115	N	422.459	50.52	824.72	73.80	1.3	*3860.66	*482.61	2.38	3.34
4F1	116	N	470.911	55.78	895.43	93.33	1.3	*3860.66	*482.61	2.15	2.60
4F1	117	N	501.076	64.90	948.95	93.33	1.3	*3860.66	*482.61	2.00	2.52
4F1	118	N	535.154	62.87	966.51	93.33	1.3	*3860.66	*482.61	1.94	2.54
4F1	119	N	495.826	39.68	948.08	93.33	1.3	3869.69	483.38	2.01	2.74
4F1	120	N	458.371	39.81	894.21	93.33	1.3	*3860.66	*482.61	2.16	2.73
4F1	121	N	443.705	52.09	821.38	73.80	1.3	*3850.97	*456.22	2.36	3.11
4F1	122	N	395.031	53.32	721.89	73.80	1.3	*3860.35	*456.22	2.74	3.10
4F1	123	N	313.192	45.27	594.07	73.80	1.3	*3860.66	*482.61	3.44	3.40
4F1	124	N	261.218	42.59	439.40	46.67	1.3	*3860.66	*482.61	4.74	5.42
4F1	125	N	214.221	34.74	322.11	46.67	1.3	2342.47	644.78	3.79	7.60
4F1	126	N	98.761	19.85	145.71	27.14	1.3	2362.62	452.13	9.07	9.30
										1.61	2.52
										57	501

Calculations For: ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

North Bracket Floorbeams

5C1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
5C1	0	N	282.39	42.30	387.49	63.16	1.3	2229.84	452.13	2.84	3.72
5C1	1	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	2	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	3	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
5C1	4	N	282.39	42.30	387.49	63.16	1.3	*2362.62	*452.13	3.05	3.72
5C1	5	N	282.39	42.30	387.49	63.16	1.3	*2362.62	*452.13	3.05	3.72
5C1	6	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	7	N	282.39	42.30	387.49	63.16	1.3	2229.84	452.13	2.84	3.72
5C1	8	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	9	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	10	N	282.39	42.30	387.49	63.16	1.3	*2362.62	*452.13	3.05	3.72
5C1	11	N	282.39	42.30	387.49	63.16	1.3	2207.94	644.78	2.81	5.53
5C1	12	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
5C1	13	N	282.39	42.30	387.49	63.16	1.3	2642.63	484.92	3.47	4.03
5C1	14	N	282.39	42.30	387.49	63.16	1.3	*2362.62	*452.13	3.05	3.72
5C1	15	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	16	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	17	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
5C1	18	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	19	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	20	N	282.39	42.30	387.49	63.16	1.3	*2362.62	*452.13	3.05	3.72
5C1	21	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	22	N	282.39	42.30	387.49	63.16	1.3	*2362.62	*452.13	3.05	3.72
5C1	23	N	282.39	42.30	387.49	63.16	1.3	2642.63	484.92	3.47	4.03
5C1	24	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	25	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	26	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	27	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	28	N	282.39	42.30	387.49	63.16	1.3	2229.84	452.13	2.84	3.72
5C1	29	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	30	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
5C1	31	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	32	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
5C1	33	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
5C1	34	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	35	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
5C1	36	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	37	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
5C1	38	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	39	N	282.39	42.30	387.49	63.16	1.3	2362.62	452.13	3.05	3.72
5C1	40	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
5C1	41	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
5C1	42	N	282.39	42.30	387.49	63.16	1.3	2642.63	484.92	3.47	4.03
5C1	43	N	282.39	42.30	387.49	63.16	1.3	2342.47	644.78	3.02	5.53
5C1	44	N	264.265	31.36	383.87	63.16	1.3	2362.62	452.13	3.11	3.85
5C1	45	N	283.125	43.21	371.03	39.93	1.3	2342.47	644.78	3.15	8.72
5C1	46	N	257.829	31.27	351.28	39.93	1.3	2362.62	452.13	3.42	6.10
5C1	47	N	283.172	44.21	322.79	39.93	1.3	2342.47	644.78	3.62	8.70
5C1	48	N	292.85	59.51	291.62	39.93	1.3	2229.84	452.13	3.75	5.55
5C1	49	N	314.78	43.36	357.15	39.93	1.3	*2229.84	*452.13	3.02	5.87
5C1	50	N	294.352	40.99	432.83	63.16	1.3	2342.47	644.78	2.68	5.54
5C1	51	N	351.057	49.44	507.08	63.16	1.3	2740.68	691.43	2.67	5.88
5C1	52	N	404.518	55.18	567.27	63.16	1.3	2740.68	691.43	2.31	5.81
5C1	53	N	399.415	40.60	613.07	63.16	1.3	3433.86	446.09	2.81	3.68
5C1	54	N	437.791	63.85	644.85	63.16	1.3	3127.10	735.69	2.35	6.12
5C1	55	N	470.587	46.70	662.61	63.16	1.3	3127.10	735.69	2.25	6.32
5C1	56	N	461.531	61.36	666.75	63.16	1.3	3127.10	735.69	2.24	6.15
5C1	57	N	424.754	44.37	656.88	63.16	1.3	2642.63	484.92	1.88	4.00
5C1	58	N	439.562	60.31	633.01	63.16	1.3	3127.10	735.69	2.39	6.16
5C1	59	N	401.327	53.52	594.96	63.16	1.3	3127.10	735.69	2.59	6.24
5C1	60	N	378.316	40.14	542.89	63.16	1.3	3433.86	446.09	3.21	3.69
5C1	61	N	368.501	58.61	476.76	63.16	1.3	2740.68	691.43	2.81	5.76
5C1	62	N	311.576	50.08	387.49	63.16	1.3	2342.47	644.78	2.96	5.43
5C1	63	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	64	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	65	N	311.576	50.08	387.49	63.16	1.3	2642.63	484.92	3.42	3.93
5C1	66	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63

Calculations For: ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

North Bracket Floorbeams

5C1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
5C1	67	N	311.576	50.08	387.49	63.16	1.3	2342.47	644.78	2.96	5.43
5C1	68	N	311.576	50.08	387.49	63.16	1.3	2342.47	644.78	2.96	5.43
5C1	69	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	70	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	71	N	311.576	50.08	387.49	63.16	1.3	2229.84	452.13	2.79	3.63
5C1	72	N	311.576	50.08	387.49	63.16	1.3	2342.47	644.78	2.96	5.43
5C1	73	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	74	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	75	N	311.576	50.08	387.49	63.16	1.3	*2362.62	*452.13	2.99	3.63
5C1	76	N	311.576	50.08	387.49	63.16	1.3	*2362.62	*452.13	2.99	3.63
5C1	77	N	311.576	50.08	387.49	63.16	1.3	*2362.62	*452.13	2.99	3.63
5C1	78	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	79	N	311.576	50.08	387.49	63.16	1.3	2642.63	484.92	3.42	3.93
5C1	80	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	81	N	311.576	50.08	387.49	63.16	1.3	2229.84	452.13	2.79	3.63
5C1	82	N	311.576	50.08	387.49	63.16	1.3	2229.84	452.13	2.79	3.63
5C1	83	N	311.576	50.08	387.49	63.16	1.3	2570.20	484.92	3.31	3.93
5C1	84	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	85	N	311.576	50.08	387.49	63.16	1.3	2229.84	452.13	2.79	3.63
5C1	86	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	87	N	311.576	50.08	387.49	63.16	1.3	2570.20	484.92	3.31	3.93
5C1	88	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	89	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	90	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	91	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	92	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	93	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	94	N	311.576	50.08	387.49	63.16	1.3	*2362.62	*452.13	2.99	3.63
5C1	95	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	96	N	311.576	50.08	387.49	63.16	1.3	3433.86	446.09	4.63	3.57
5C1	97	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	98	N	311.576	50.08	387.49	63.16	1.3	2342.47	644.78	2.96	5.43
5C1	99	N	311.576	50.08	387.49	63.16	1.3	2342.47	644.78	2.96	5.43
5C1	100	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	101	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	102	N	311.576	50.08	387.49	63.16	1.3	2349.00	645.68	2.97	5.44
5C1	103	N	311.576	50.08	387.49	63.16	1.3	2362.62	452.13	2.99	3.63
5C1	104	N	311.576	50.08	387.49	63.16	1.3	2570.20	484.92	3.31	3.93
5C1	105	N	311.576	50.08	387.49	63.16	1.3	2229.84	452.13	2.79	3.63
5C1	106	N	311.576	50.08	387.49	63.16	1.3	2365.81	452.50	2.99	3.63
5C1	107	N	311.576	50.08	387.49	63.16	1.3	2365.81	452.50	2.99	3.63
5C1	108	N	311.576	50.08	387.49	63.16	1.3	2365.81	452.50	2.99	3.63
5C1	109	N	311.576	50.08	387.49	63.16	1.3	*2229.84	*452.13	2.79	3.63
5C1	110	N	287.203	39.16	387.49	63.16	1.3	2362.62	452.13	3.04	3.76
5C1	111	N	301.9	32.38	456.02	63.16	1.3	3860.66	482.61	4.50	4.13
5C1	112	N	334.932	44.08	519.18	63.16	1.3	*3860.66	*482.61	3.90	3.98
5C1	113	N	401.528	58.27	581.33	63.16	1.3	*3860.66	*482.61	3.40	3.81
5C1	114	N	384.213	35.28	643.49	63.16	1.3	3860.66	482.61	3.09	4.09
5C1	115	N	422.459	50.52	705.75	63.16	1.3	*3860.66	*482.61	2.78	3.91
5C1	116	N	470.911	55.78	766.26	79.86	1.3	*3860.66	*482.61	2.51	3.04
5C1	117	N	501.076	64.90	812.05	79.86	1.3	*3860.66	*482.61	2.34	2.95
5C1	118	N	535.154	62.87	827.08	79.86	1.3	*3860.66	*482.61	2.26	2.97
5C1	119	N	495.826	39.68	811.31	79.86	1.3	3869.69	483.38	2.35	3.20
5C1	120	N	458.371	39.81	765.22	79.86	1.3	*3860.66	*482.61	2.52	3.19
5C1	121	N	443.705	52.09	702.89	63.16	1.3	*3850.97	*456.22	2.76	3.64
5C1	122	N	395.031	53.32	617.76	63.16	1.3	*3860.35	*456.22	3.21	3.62
5C1	123	N	313.192	45.27	508.37	63.16	1.3	*3860.66	*482.61	4.02	3.97
5C1	124	N	261.218	42.59	376.01	39.93	1.3	*3860.66	*482.61	5.54	6.33
5C1	125	N	214.221	34.74	275.66	39.93	1.3	2342.47	644.78	4.43	8.89
5C1	126	N	98.761	19.85	124.73	23.23	1.3	2362.62	452.13	10.60	10.86
										1.88	2.95
										57	501

Calculations For: ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

South Bracket Floorbeams
HS-20 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment		Rating Factor - Shear	
			Moment	Shear	Moment	Shear		Moment	Shear	Inventory	Operating	Inventory	Operating
			k-ft	k	k-ft	k		k-ft	k				
HS-20	0	S	273.60	41.68	496.47	80.10	1.30	2229.84	452.13	1.34	2.23	1.76	2.94
HS-20	1	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	2	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	3	S	273.60	41.68	496.47	80.10	1.30	2342.47	644.78	1.42	2.37	2.61	4.36
HS-20	4	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	5	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	6	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	7	S	273.60	41.68	496.47	80.10	1.30	2229.84	452.13	1.34	2.23	1.76	2.94
HS-20	8	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	9	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	10	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	11	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	12	S	273.60	41.68	496.47	80.10	1.30	2342.47	644.78	1.42	2.37	2.61	4.36
HS-20	13	S	273.60	41.68	496.47	80.10	1.30	2570.20	484.92	1.58	2.64	1.91	3.18
HS-20	14	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	15	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	16	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	17	S	273.60	41.68	496.47	80.10	1.30	2342.47	644.78	1.42	2.37	2.61	4.36
HS-20	18	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	19	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	20	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	21	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	22	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	23	S	273.60	41.68	496.47	80.10	1.30	2570.20	484.92	1.58	2.64	1.91	3.18
HS-20	24	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	25	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	26	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	27	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	28	S	273.60	41.68	496.47	80.10	1.30	2229.84	452.13	1.34	2.23	1.76	2.94
HS-20	29	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	30	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	31	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	32	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	33	S	273.60	41.68	496.47	80.10	1.30	2342.47	644.78	1.42	2.37	2.61	4.36
HS-20	34	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	35	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	36	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	37	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	38	S	273.60	41.68	496.47	80.10	1.30	2342.47	644.78	1.42	2.37	2.61	4.36
HS-20	39	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	40	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	41	S	273.60	41.68	496.47	80.10	1.30	2362.62	452.13	1.43	2.39	1.76	2.94
HS-20	42	S	273.60	41.68	496.47	80.10	1.30	2642.63	484.92	1.63	2.73	1.91	3.18
HS-20	43	S	273.60	41.68	496.47	80.10	1.30	2342.47	644.78	1.42	2.37	2.61	4.36
HS-20	44	S	274.85	41.93	496.47	80.10	1.30	2342.47	644.78	1.42	2.37	2.61	4.36
HS-20	45	S	258.65	30.86	519.42	80.10	1.30	2362.62	452.13	1.38	2.31	1.82	3.04
HS-20	46	S	286.61	43.30	560.72	80.10	1.30	2740.68	691.43	1.50	2.50	2.81	4.69
HS-20	47	S	278.34	41.08	620.80	80.10	1.30	2740.68	691.43	1.36	2.27	2.82	4.71
HS-20	48	S	275.41	37.60	691.43	80.10	1.30	2229.84	452.13	**0.96**	1.60	1.78	2.98
HS-20	49	S	275.35	37.12	626.78	80.10	1.30	2342.47	644.78	1.12	1.87	2.64	4.41
HS-20	50	S	261.99	30.54	492.18	80.10	1.30	2362.62	452.13	1.46	2.43	1.83	3.05
HS-20	51	S	236.44	35.03	411.10	53.40	1.30	2362.62	452.13	1.77	2.96	2.70	4.51
HS-20	52	S	211.47	31.73	346.38	53.40	1.30	2229.84	452.13	2.00	3.34	2.73	4.55
HS-20	53	S	194.06	29.34	305.68	53.40	1.30	2362.62	452.13	2.45	4.09	2.75	4.59
HS-20	54	S	189.45	29.73	277.40	53.40	1.30	2362.62	452.13	2.70	4.51	2.74	4.58
HS-20	55	S	177.31	28.20	261.54	53.40	1.30	2362.62	452.13	2.89	4.82	2.76	4.60
HS-20	56	S	140.99	22.93	258.04	53.40	1.30	2362.62	452.13	2.99	5.00	2.80	4.68
HS-20	57	S	149.27	21.06	266.94	53.40	1.30	2642.63	484.92	3.25	5.43	3.04	5.07
HS-20	58	S	183.24	35.43	288.24	53.40	1.30	2342.47	644.78	2.59	4.32	3.97	6.63
HS-20	59	S	245.10	38.55	323.58	53.40	1.30	2362.62	452.13	2.24	3.74	2.67	4.45
HS-20	60	S	212.61	30.18	371.35	53.40	1.30	2362.62	452.13	1.99	3.32	2.74	4.58
HS-20	61	S	227.39	30.65	431.57	53.40	1.30	2362.62	452.13	1.70	2.83	2.74	4.57
HS-20	62	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	63	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	64	S	278.77	40.59	491.47	80.10	1.30	2229.84	452.13	1.35	2.25	1.77	2.95
HS-20	65	S	278.77	40.59	491.47	80.10	1.30	2642.63	484.92	1.64	2.75	1.91	3.19
HS-20	66	S	278.77	40.59	491.47	80.10	1.30	2342.47	644.78	1.43	2.38	2.62	4.37

Calculations For: ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

South Bracket Floorbeams
HS-20 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment		Rating Factor - Shear	
			Moment	Shear	Moment	Shear		Moment	Shear	Inventory	Operating	Inventory	Operating
			k-ft	k	k-ft	k		k-ft	k				
HS-20	67	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	68	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	69	S	278.77	40.59	491.47	80.10	1.30	2229.84	452.13	1.35	2.25	1.77	2.95
HS-20	70	S	278.77	40.59	491.47	80.10	1.30	2342.47	644.78	1.43	2.38	2.62	4.37
HS-20	71	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	72	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	73	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	74	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	75	S	278.77	40.59	491.47	80.10	1.30	*2362.62	*452.13	1.44	2.41	1.77	2.95
HS-20	76	S	278.77	40.59	491.47	80.10	1.30	*2362.62	*452.13	1.44	2.41	1.77	2.95
HS-20	77	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	78	S	278.77	40.59	491.47	80.10	1.30	*2362.62	*452.13	1.44	2.41	1.77	2.95
HS-20	79	S	278.77	40.59	491.47	80.10	1.30	2642.63	484.92	1.64	2.75	1.91	3.19
HS-20	80	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	81	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	82	S	278.77	40.59	491.47	80.10	1.30	*2362.62	*452.13	1.44	2.41	1.77	2.95
HS-20	83	S	278.77	40.59	491.47	80.10	1.30	2642.63	484.92	1.64	2.75	1.91	3.19
HS-20	84	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	85	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	86	S	278.77	40.59	491.47	80.10	1.30	2229.84	452.13	1.35	2.25	1.77	2.95
HS-20	87	S	278.77	40.59	491.47	80.10	1.30	2570.20	484.92	1.59	2.66	1.91	3.19
HS-20	88	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	89	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	90	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	91	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	92	S	278.77	40.59	491.47	80.10	1.30	*2362.62	*452.13	1.44	2.41	1.77	2.95
HS-20	93	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	94	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	95	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	96	S	278.77	40.59	491.47	80.10	1.30	2229.84	452.13	1.35	2.25	1.77	2.95
HS-20	97	S	278.77	40.59	491.47	80.10	1.30	2229.84	452.13	1.35	2.25	1.77	2.95
HS-20	98	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	99	S	278.77	40.59	491.47	80.10	1.30	2342.47	644.78	1.43	2.38	2.62	4.37
HS-20	100	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	101	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	102	S	278.77	40.59	491.47	80.10	1.30	2342.47	644.78	1.43	2.38	2.62	4.37
HS-20	103	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	104	S	278.77	40.59	491.47	80.10	1.30	2642.63	484.92	1.64	2.75	1.91	3.19
HS-20	105	S	278.77	40.59	491.47	80.10	1.30	*2229.84	*452.13	1.35	2.25	1.77	2.95
HS-20	106	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	107	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	108	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	109	S	278.77	40.59	491.47	80.10	1.30	2362.62	452.13	1.44	2.41	1.77	2.95
HS-20	110	S	281.49	41.56	491.47	80.10	1.30	2362.62	452.13	1.44	2.40	1.76	2.94
HS-20	111	S	255.95	33.38	440.52	53.40	1.30	2642.63	484.92	1.86	3.10	2.93	4.89
HS-20	112	S	247.00	38.51	389.48	53.40	1.30	2362.62	452.13	1.86	3.10	2.67	4.46
HS-20	113	S	207.79	31.04	338.43	53.40	1.30	2362.62	452.13	2.19	3.66	2.73	4.56
HS-20	114	S	195.29	30.49	287.39	53.40	1.30	2642.63	484.92	2.95	4.92	2.96	4.93
HS-20	115	S	156.25	26.00	236.34	53.40	1.30	2362.62	452.13	3.24	5.41	2.78	4.64
HS-20	116	S	156.20	33.59	185.29	53.40	1.30	*2229.84	*452.13	3.88	6.47	2.71	4.53
HS-20	117	S	144.56	29.22	157.87	26.70	1.30	*2229.84	*452.13	4.58	7.65	5.50	9.18
HS-20	118	S	133.63	27.96	153.42	26.70	1.30	*2229.84	*452.13	4.75	7.93	5.52	9.21
HS-20	119	S	141.15	32.28	159.96	26.70	1.30	2570.20	484.92	5.29	8.83	5.88	9.82
HS-20	120	S	131.18	19.61	195.31	53.40	1.30	2229.84	452.13	3.74	6.24	2.83	4.73
HS-20	121	S	179.99	44.28	253.16	53.40	1.30	*2229.84	*452.13	2.79	4.66	2.62	4.37
HS-20	122	S	224.77	39.81	311.01	53.40	1.30	*2229.84	*452.13	2.21	3.69	2.66	4.44
HS-20	123	S	278.21	47.87	436.45	53.40	1.30	*2229.84	*452.13	1.52	2.53	2.59	4.32
HS-20	124	S	330.55	44.86	602.53	80.10	1.30	*2229.84	*452.13	1.06	1.77	1.74	2.91
HS-20	125	S	364.24	53.06	790.69	80.10	1.30	*2229.84	*452.13	**0.79**	1.31	1.70	2.83
HS-20	126	S	193.73	24.99	1050.28	106.80	1.30	2362.62	452.13	**0.71**	1.19	1.39	2.32
										0.71	1.19	1.39	2.32
										126	126	126	126

Calculations For: ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

South Bracket Floorbeams
2F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
2F1	0	S	273.60	41.68	257.41	41.53	1.30	2229.84	452.13	4.31	5.67
2F1	1	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	2	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	3	S	273.60	41.68	257.41	41.53	1.30	2342.47	644.78	4.57	8.41
2F1	4	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	5	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	6	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	7	S	273.60	41.68	257.41	41.53	1.30	2229.84	452.13	4.31	5.67
2F1	8	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	9	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	10	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	11	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	12	S	273.60	41.68	257.41	41.53	1.30	2342.47	644.78	4.57	8.41
2F1	13	S	273.60	41.68	257.41	41.53	1.30	2570.20	484.92	5.09	6.14
2F1	14	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	15	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	16	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	17	S	273.60	41.68	257.41	41.53	1.30	2342.47	644.78	4.57	8.41
2F1	18	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	19	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	20	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	21	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	22	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	23	S	273.60	41.68	257.41	41.53	1.30	2570.20	484.92	5.09	6.14
2F1	24	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	25	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	26	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	27	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	28	S	273.60	41.68	257.41	41.53	1.30	2229.84	452.13	4.31	5.67
2F1	29	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	30	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	31	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	32	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	33	S	273.60	41.68	257.41	41.53	1.30	2342.47	644.78	4.57	8.41
2F1	34	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	35	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	36	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	37	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	38	S	273.60	41.68	257.41	41.53	1.30	2342.47	644.78	4.57	8.41
2F1	39	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	40	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	41	S	273.60	41.68	257.41	41.53	1.30	2362.62	452.13	4.61	5.67
2F1	42	S	273.60	41.68	257.41	41.53	1.30	2642.63	484.92	5.26	6.14
2F1	43	S	273.60	41.68	257.41	41.53	1.30	2342.47	644.78	4.57	8.41
2F1	44	S	274.85	41.93	257.41	41.53	1.30	2342.47	644.78	4.56	8.41
2F1	45	S	258.65	30.86	269.31	41.53	1.30	2362.62	452.13	4.45	5.87
2F1	46	S	286.61	43.30	290.72	41.53	1.30	2740.68	691.43	4.82	9.05
2F1	47	S	278.34	41.08	321.87	41.53	1.30	2740.68	691.43	4.37	9.09
2F1	48	S	275.41	37.60	358.50	41.53	1.30	2229.84	452.13	3.09	5.75
2F1	49	S	275.35	37.12	324.98	41.53	1.30	2342.47	644.78	3.61	8.50
2F1	50	S	261.99	30.54	255.19	41.53	1.30	2362.62	452.13	4.69	5.88
2F1	51	S	236.44	35.03	213.15	27.69	1.30	2362.62	452.13	5.71	8.69
2F1	52	S	211.47	31.73	179.59	27.69	1.30	2229.84	452.13	6.44	8.78
2F1	53	S	194.06	29.34	158.49	27.69	1.30	2362.62	452.13	7.88	8.85
2F1	54	S	189.45	29.73	143.83	27.69	1.30	2362.62	452.13	8.71	8.84
2F1	55	S	177.31	28.20	135.60	27.69	1.30	2362.62	452.13	9.30	8.88
2F1	56	S	140.99	22.93	133.79	27.69	1.30	2362.62	452.13	9.64	9.03
2F1	57	S	149.27	21.06	138.40	27.69	1.30	2642.63	484.92	10.47	9.78
2F1	58	S	183.24	35.43	149.45	27.69	1.30	2342.47	644.78	8.33	12.80
2F1	59	S	245.10	38.55	167.77	27.69	1.30	2362.62	452.13	7.21	8.59
2F1	60	S	212.61	30.18	192.54	27.69	1.30	2362.62	452.13	6.41	8.82
2F1	61	S	227.39	30.65	223.76	27.69	1.30	2362.62	452.13	5.47	8.81
2F1	62	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	63	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	64	S	278.77	40.59	254.82	41.53	1.30	2229.84	452.13	4.34	5.69
2F1	65	S	278.77	40.59	254.82	41.53	1.30	2642.63	484.92	5.29	6.16
2F1	66	S	278.77	40.59	254.82	41.53	1.30	2342.47	644.78	4.60	8.43

Calculations For: ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

South Bracket Floorbeams
2F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
2F1	67	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	68	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	69	S	278.77	40.59	254.82	41.53	1.30	2229.84	452.13	4.34	5.69
2F1	70	S	278.77	40.59	254.82	41.53	1.30	2342.47	644.78	4.60	8.43
2F1	71	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	72	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	73	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	74	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	75	S	278.77	40.59	254.82	41.53	1.30	*2362.62	*452.13	4.64	5.69
2F1	76	S	278.77	40.59	254.82	41.53	1.30	*2362.62	*452.13	4.64	5.69
2F1	77	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	78	S	278.77	40.59	254.82	41.53	1.30	*2362.62	*452.13	4.64	5.69
2F1	79	S	278.77	40.59	254.82	41.53	1.30	2642.63	484.92	5.29	6.16
2F1	80	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	81	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	82	S	278.77	40.59	254.82	41.53	1.30	*2362.62	*452.13	4.64	5.69
2F1	83	S	278.77	40.59	254.82	41.53	1.30	2642.63	484.92	5.29	6.16
2F1	84	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	85	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	86	S	278.77	40.59	254.82	41.53	1.30	2229.84	452.13	4.34	5.69
2F1	87	S	278.77	40.59	254.82	41.53	1.30	2570.20	484.92	5.13	6.16
2F1	88	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	89	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	90	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	91	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	92	S	278.77	40.59	254.82	41.53	1.30	*2362.62	*452.13	4.64	5.69
2F1	93	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	94	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	95	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	96	S	278.77	40.59	254.82	41.53	1.30	2229.84	452.13	4.34	5.69
2F1	97	S	278.77	40.59	254.82	41.53	1.30	2229.84	452.13	4.34	5.69
2F1	98	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	99	S	278.77	40.59	254.82	41.53	1.30	2342.47	644.78	4.60	8.43
2F1	100	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	101	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	102	S	278.77	40.59	254.82	41.53	1.30	2342.47	644.78	4.60	8.43
2F1	103	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	104	S	278.77	40.59	254.82	41.53	1.30	2642.63	484.92	5.29	6.16
2F1	105	S	278.77	40.59	254.82	41.53	1.30	*2229.84	*452.13	4.34	5.69
2F1	106	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	107	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	108	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	109	S	278.77	40.59	254.82	41.53	1.30	2362.62	452.13	4.64	5.69
2F1	110	S	281.49	41.56	254.82	41.53	1.30	2362.62	452.13	4.64	5.67
2F1	111	S	255.95	33.38	228.40	27.69	1.30	2642.63	484.92	5.98	9.44
2F1	112	S	247.00	38.51	201.94	27.69	1.30	2362.62	452.13	5.98	8.59
2F1	113	S	207.79	31.04	175.47	27.69	1.30	2362.62	452.13	7.06	8.80
2F1	114	S	195.29	30.49	149.01	27.69	1.30	2642.63	484.92	9.49	9.52
2F1	115	S	156.25	26.00	122.54	27.69	1.30	2362.62	452.13	10.43	8.94
2F1	116	S	156.20	33.59	96.07	27.69	1.30	*2229.84	*452.13	12.48	8.73
2F1	117	S	144.56	29.22	81.85	13.84	1.30	*2229.84	*452.13	14.76	17.70
2F1	118	S	133.63	27.96	79.55	13.84	1.30	*2229.84	*452.13	15.29	17.77
2F1	119	S	141.15	32.28	82.94	13.84	1.30	2570.20	484.92	17.03	18.93
2F1	120	S	131.18	19.61	101.26	27.69	1.30	2229.84	452.13	12.03	9.12
2F1	121	S	179.99	44.28	131.26	27.69	1.30	*2229.84	*452.13	9.00	8.43
2F1	122	S	224.77	39.81	161.25	27.69	1.30	*2229.84	*452.13	7.11	8.56
2F1	123	S	278.21	47.87	226.29	27.69	1.30	*2229.84	*452.13	4.88	8.33
2F1	124	S	330.55	44.86	312.40	41.53	1.30	*2229.84	*452.13	3.41	5.61
2F1	125	S	364.24	53.06	409.96	41.53	1.30	*2229.84	*452.13	2.54	5.46
2F1	126	S	193.73	24.99	544.55	55.38	1.30	2362.62	452.13	2.29	4.48
										2.29	4.48
										126	194

South Bracket Floorbeams
3F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
3F1	0	S	273.60	41.68	383.92	61.94	1.30	2229.84	452.13	2.89	3.80
3F1	1	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	2	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	3	S	273.60	41.68	383.92	61.94	1.30	2342.47	644.78	3.06	5.64
3F1	4	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	5	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	6	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	7	S	273.60	41.68	383.92	61.94	1.30	2229.84	452.13	2.89	3.80
3F1	8	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	9	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	10	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	11	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	12	S	273.60	41.68	383.92	61.94	1.30	2342.47	644.78	3.06	5.64
3F1	13	S	273.60	41.68	383.92	61.94	1.30	2570.20	484.92	3.41	4.11
3F1	14	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	15	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	16	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	17	S	273.60	41.68	383.92	61.94	1.30	2342.47	644.78	3.06	5.64
3F1	18	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	19	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	20	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	21	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	22	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	23	S	273.60	41.68	383.92	61.94	1.30	2570.20	484.92	3.41	4.11
3F1	24	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	25	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	26	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	27	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	28	S	273.60	41.68	383.92	61.94	1.30	2229.84	452.13	2.89	3.80
3F1	29	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	30	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	31	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	32	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	33	S	273.60	41.68	383.92	61.94	1.30	2342.47	644.78	3.06	5.64
3F1	34	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	35	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	36	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	37	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	38	S	273.60	41.68	383.92	61.94	1.30	2342.47	644.78	3.06	5.64
3F1	39	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	40	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	41	S	273.60	41.68	383.92	61.94	1.30	2362.62	452.13	3.09	3.80
3F1	42	S	273.60	41.68	383.92	61.94	1.30	2642.63	484.92	3.52	4.11
3F1	43	S	273.60	41.68	383.92	61.94	1.30	2342.47	644.78	3.06	5.64
3F1	44	S	274.85	41.93	383.92	61.94	1.30	2342.47	644.78	3.06	5.64
3F1	45	S	258.65	30.86	401.67	61.94	1.30	2362.62	452.13	2.99	3.94
3F1	46	S	286.61	43.30	433.61	61.94	1.30	2740.68	691.43	3.23	6.07
3F1	47	S	278.34	41.08	480.07	61.94	1.30	2740.68	691.43	2.93	6.09
3F1	48	S	275.41	37.60	534.69	61.94	1.30	2229.84	452.13	2.07	3.85
3F1	49	S	275.35	37.12	484.69	61.94	1.30	2342.47	644.78	2.42	5.70
3F1	50	S	261.99	30.54	380.60	61.94	1.30	2362.62	452.13	3.14	3.94
3F1	51	S	236.44	35.03	317.91	41.30	1.30	2362.62	452.13	3.83	5.83
3F1	52	S	211.47	31.73	267.85	41.30	1.30	2229.84	452.13	4.32	5.89
3F1	53	S	194.06	29.34	236.38	41.30	1.30	2362.62	452.13	5.28	5.93
3F1	54	S	189.45	29.73	214.52	41.30	1.30	2362.62	452.13	5.84	5.92
3F1	55	S	177.31	28.20	202.25	41.30	1.30	2362.62	452.13	6.24	5.95
3F1	56	S	140.99	22.93	199.54	41.30	1.30	2362.62	452.13	6.46	6.05
3F1	57	S	149.27	21.06	206.42	41.30	1.30	2642.63	484.92	7.02	6.56
3F1	58	S	183.24	35.43	222.90	41.30	1.30	2342.47	644.78	5.59	8.58
3F1	59	S	245.10	38.55	250.22	41.30	1.30	2362.62	452.13	4.83	5.76
3F1	60	S	212.61	30.18	287.17	41.30	1.30	2362.62	452.13	4.30	5.92
3F1	61	S	227.39	30.65	333.74	41.30	1.30	2362.62	452.13	3.66	5.91
3F1	62	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	63	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	64	S	278.77	40.59	380.06	61.94	1.30	2229.84	452.13	2.91	3.81
3F1	65	S	278.77	40.59	380.06	61.94	1.30	2642.63	484.92	3.55	4.13
3F1	66	S	278.77	40.59	380.06	61.94	1.30	2342.47	644.78	3.08	5.66

South Bracket Floorbeams
3F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
3F1	67	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	68	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	69	S	278.77	40.59	380.06	61.94	1.30	2229.84	452.13	2.91	3.81
3F1	70	S	278.77	40.59	380.06	61.94	1.30	2342.47	644.78	3.08	5.66
3F1	71	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	72	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	73	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	74	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	75	S	278.77	40.59	380.06	61.94	1.30	*2362.62	*452.13	3.11	3.81
3F1	76	S	278.77	40.59	380.06	61.94	1.30	*2362.62	*452.13	3.11	3.81
3F1	77	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	78	S	278.77	40.59	380.06	61.94	1.30	*2362.62	*452.13	3.11	3.81
3F1	79	S	278.77	40.59	380.06	61.94	1.30	2642.63	484.92	3.55	4.13
3F1	80	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	81	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	82	S	278.77	40.59	380.06	61.94	1.30	*2362.62	*452.13	3.11	3.81
3F1	83	S	278.77	40.59	380.06	61.94	1.30	2642.63	484.92	3.55	4.13
3F1	84	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	85	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	86	S	278.77	40.59	380.06	61.94	1.30	2229.84	452.13	2.91	3.81
3F1	87	S	278.77	40.59	380.06	61.94	1.30	2570.20	484.92	3.44	4.13
3F1	88	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	89	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	90	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	91	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	92	S	278.77	40.59	380.06	61.94	1.30	*2362.62	*452.13	3.11	3.81
3F1	93	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	94	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	95	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	96	S	278.77	40.59	380.06	61.94	1.30	2229.84	452.13	2.91	3.81
3F1	97	S	278.77	40.59	380.06	61.94	1.30	2229.84	452.13	2.91	3.81
3F1	98	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	99	S	278.77	40.59	380.06	61.94	1.30	2342.47	644.78	3.08	5.66
3F1	100	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	101	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	102	S	278.77	40.59	380.06	61.94	1.30	2342.47	644.78	3.08	5.66
3F1	103	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	104	S	278.77	40.59	380.06	61.94	1.30	2642.63	484.92	3.55	4.13
3F1	105	S	278.77	40.59	380.06	61.94	1.30	*2229.84	*452.13	2.91	3.81
3F1	106	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	107	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	108	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	109	S	278.77	40.59	380.06	61.94	1.30	2362.62	452.13	3.11	3.81
3F1	110	S	281.49	41.56	380.06	61.94	1.30	2362.62	452.13	3.11	3.80
3F1	111	S	255.95	33.38	340.66	41.30	1.30	2642.63	484.92	4.01	6.33
3F1	112	S	247.00	38.51	301.18	41.30	1.30	2362.62	452.13	4.01	5.76
3F1	113	S	207.79	31.04	261.71	41.30	1.30	2362.62	452.13	4.73	5.90
3F1	114	S	195.29	30.49	222.24	41.30	1.30	2642.63	484.92	6.36	6.38
3F1	115	S	156.25	26.00	182.76	41.30	1.30	2362.62	452.13	6.99	5.99
3F1	116	S	156.20	33.59	143.29	41.30	1.30	*2229.84	*452.13	8.37	5.85
3F1	117	S	144.56	29.22	122.08	20.65	1.30	*2229.84	*452.13	9.90	11.87
3F1	118	S	133.63	27.96	118.64	20.65	1.30	*2229.84	*452.13	10.25	11.92
3F1	119	S	141.15	32.28	123.70	20.65	1.30	2570.20	484.92	11.42	12.69
3F1	120	S	131.18	19.61	151.03	41.30	1.30	2229.84	452.13	8.07	6.11
3F1	121	S	179.99	44.28	195.77	41.30	1.30	*2229.84	*452.13	6.03	5.65
3F1	122	S	224.77	39.81	240.51	41.30	1.30	*2229.84	*452.13	4.77	5.74
3F1	123	S	278.21	47.87	337.51	41.30	1.30	*2229.84	*452.13	3.28	5.59
3F1	124	S	330.55	44.86	465.94	61.94	1.30	*2229.84	*452.13	2.29	3.76
3F1	125	S	364.24	53.06	611.44	61.94	1.30	*2229.84	*452.13	1.70	3.66
3F1	126	S	193.73	24.99	812.18	82.59	1.30	2362.62	452.13	1.54	3.01
										1.54	3.01
										126	194

South Bracket Floorbeams
4F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
4F1	0	S	273.60	41.68	433.85	70.00	1.30	2229.84	452.13	2.56	3.36
4F1	1	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	2	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	3	S	273.60	41.68	433.85	70.00	1.30	2342.47	644.78	2.71	4.99
4F1	4	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	5	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	6	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	7	S	273.60	41.68	433.85	70.00	1.30	2229.84	452.13	2.56	3.36
4F1	8	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	9	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	10	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	11	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	12	S	273.60	41.68	433.85	70.00	1.30	2342.47	644.78	2.71	4.99
4F1	13	S	273.60	41.68	433.85	70.00	1.30	2570.20	484.92	3.02	3.64
4F1	14	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	15	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	16	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	17	S	273.60	41.68	433.85	70.00	1.30	2342.47	644.78	2.71	4.99
4F1	18	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	19	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	20	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	21	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	22	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	23	S	273.60	41.68	433.85	70.00	1.30	2570.20	484.92	3.02	3.64
4F1	24	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	25	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	26	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	27	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	28	S	273.60	41.68	433.85	70.00	1.30	2229.84	452.13	2.56	3.36
4F1	29	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	30	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	31	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	32	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	33	S	273.60	41.68	433.85	70.00	1.30	2342.47	644.78	2.71	4.99
4F1	34	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	35	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	36	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	37	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	38	S	273.60	41.68	433.85	70.00	1.30	2342.47	644.78	2.71	4.99
4F1	39	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	40	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	41	S	273.60	41.68	433.85	70.00	1.30	2362.62	452.13	2.74	3.36
4F1	42	S	273.60	41.68	433.85	70.00	1.30	2642.63	484.92	3.12	3.64
4F1	43	S	273.60	41.68	433.85	70.00	1.30	2342.47	644.78	2.71	4.99
4F1	44	S	274.85	41.93	433.85	70.00	1.30	2342.47	644.78	2.71	4.99
4F1	45	S	258.65	30.86	453.90	70.00	1.30	2362.62	452.13	2.64	3.48
4F1	46	S	286.61	43.30	489.99	70.00	1.30	2740.68	691.43	2.86	5.37
4F1	47	S	278.34	41.08	542.49	70.00	1.30	2740.68	691.43	2.59	5.39
4F1	48	S	275.41	37.60	604.22	70.00	1.30	2229.84	452.13	1.83	3.41
4F1	49	S	275.35	37.12	547.72	70.00	1.30	2342.47	644.78	2.14	5.04
4F1	50	S	261.99	30.54	430.09	70.00	1.30	2362.62	452.13	2.78	3.49
4F1	51	S	236.44	35.03	359.25	46.67	1.30	2362.62	452.13	3.39	5.16
4F1	52	S	211.47	31.73	302.69	46.67	1.30	2229.84	452.13	3.82	5.21
4F1	53	S	194.06	29.34	267.12	46.67	1.30	2362.62	452.13	4.67	5.25
4F1	54	S	189.45	29.73	242.41	46.67	1.30	2362.62	452.13	5.17	5.24
4F1	55	S	177.31	28.20	228.55	46.67	1.30	2362.62	452.13	5.52	5.27
4F1	56	S	140.99	22.93	225.49	46.67	1.30	2362.62	452.13	5.72	5.36
4F1	57	S	149.27	21.06	233.26	46.67	1.30	2642.63	484.92	6.21	5.80
4F1	58	S	183.24	35.43	251.88	46.67	1.30	2342.47	644.78	4.94	7.59
4F1	59	S	245.10	38.55	282.76	46.67	1.30	2362.62	452.13	4.28	5.10
4F1	60	S	212.61	30.18	324.51	46.67	1.30	2362.62	452.13	3.80	5.24
4F1	61	S	227.39	30.65	377.14	46.67	1.30	2362.62	452.13	3.24	5.23
4F1	62	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	63	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	64	S	278.77	40.59	429.48	70.00	1.30	2229.84	452.13	2.57	3.38
4F1	65	S	278.77	40.59	429.48	70.00	1.30	2642.63	484.92	3.14	3.65
4F1	66	S	278.77	40.59	429.48	70.00	1.30	2342.47	644.78	2.73	5.00

South Bracket Floorbeams
4F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
4F1	67	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	68	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	69	S	278.77	40.59	429.48	70.00	1.30	2229.84	452.13	2.57	3.38
4F1	70	S	278.77	40.59	429.48	70.00	1.30	2342.47	644.78	2.73	5.00
4F1	71	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	72	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	73	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	74	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	75	S	278.77	40.59	429.48	70.00	1.30	*2362.62	*452.13	2.76	3.38
4F1	76	S	278.77	40.59	429.48	70.00	1.30	*2362.62	*452.13	2.76	3.38
4F1	77	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	78	S	278.77	40.59	429.48	70.00	1.30	*2362.62	*452.13	2.76	3.38
4F1	79	S	278.77	40.59	429.48	70.00	1.30	2642.63	484.92	3.14	3.65
4F1	80	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	81	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	82	S	278.77	40.59	429.48	70.00	1.30	*2362.62	*452.13	2.76	3.38
4F1	83	S	278.77	40.59	429.48	70.00	1.30	2642.63	484.92	3.14	3.65
4F1	84	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	85	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	86	S	278.77	40.59	429.48	70.00	1.30	2229.84	452.13	2.57	3.38
4F1	87	S	278.77	40.59	429.48	70.00	1.30	2570.20	484.92	3.04	3.65
4F1	88	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	89	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	90	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	91	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	92	S	278.77	40.59	429.48	70.00	1.30	*2362.62	*452.13	2.76	3.38
4F1	93	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	94	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	95	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	96	S	278.77	40.59	429.48	70.00	1.30	2229.84	452.13	2.57	3.38
4F1	97	S	278.77	40.59	429.48	70.00	1.30	2229.84	452.13	2.57	3.38
4F1	98	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	99	S	278.77	40.59	429.48	70.00	1.30	2342.47	644.78	2.73	5.00
4F1	100	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	101	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	102	S	278.77	40.59	429.48	70.00	1.30	2342.47	644.78	2.73	5.00
4F1	103	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	104	S	278.77	40.59	429.48	70.00	1.30	2642.63	484.92	3.14	3.65
4F1	105	S	278.77	40.59	429.48	70.00	1.30	*2229.84	*452.13	2.57	3.38
4F1	106	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	107	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	108	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	109	S	278.77	40.59	429.48	70.00	1.30	2362.62	452.13	2.76	3.38
4F1	110	S	281.49	41.56	429.48	70.00	1.30	2362.62	452.13	2.75	3.37
4F1	111	S	255.95	33.38	384.96	46.67	1.30	2642.63	484.92	3.55	5.60
4F1	112	S	247.00	38.51	340.35	46.67	1.30	2362.62	452.13	3.55	5.10
4F1	113	S	207.79	31.04	295.74	46.67	1.30	2362.62	452.13	4.19	5.22
4F1	114	S	195.29	30.49	251.14	46.67	1.30	2642.63	484.92	5.63	5.65
4F1	115	S	156.25	26.00	206.53	46.67	1.30	2362.62	452.13	6.19	5.30
4F1	116	S	156.20	33.59	161.92	46.67	1.30	*2229.84	*452.13	7.41	5.18
4F1	117	S	144.56	29.22	137.96	23.33	1.30	*2229.84	*452.13	8.76	10.50
4F1	118	S	133.63	27.96	134.07	23.33	1.30	*2229.84	*452.13	9.07	10.54
4F1	119	S	141.15	32.28	139.78	23.33	1.30	2570.20	484.92	10.10	11.23
4F1	120	S	131.18	19.61	170.67	46.67	1.30	2229.84	452.13	7.14	5.41
4F1	121	S	179.99	44.28	221.23	46.67	1.30	*2229.84	*452.13	5.34	5.00
4F1	122	S	224.77	39.81	271.78	46.67	1.30	*2229.84	*452.13	4.22	5.08
4F1	123	S	278.21	47.87	381.40	46.67	1.30	*2229.84	*452.13	2.90	4.94
4F1	124	S	330.55	44.86	526.53	70.00	1.30	*2229.84	*452.13	2.02	3.33
4F1	125	S	364.24	53.06	690.95	70.00	1.30	*2229.84	*452.13	1.50	3.24
4F1	126	S	193.73	24.99	917.80	93.33	1.30	2362.62	452.13	1.36	2.66
										1.36	2.66
										126	194

South Bracket Floorbeams
5C1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
5C1	0	S	273.60	41.68	371.20	59.89	1.30	2229.84	452.13	2.99	3.93
5C1	1	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	2	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	3	S	273.60	41.68	371.20	59.89	1.30	2342.47	644.78	3.17	5.83
5C1	4	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	5	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	6	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	7	S	273.60	41.68	371.20	59.89	1.30	2229.84	452.13	2.99	3.93
5C1	8	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	9	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	10	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	11	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	12	S	273.60	41.68	371.20	59.89	1.30	2342.47	644.78	3.17	5.83
5C1	13	S	273.60	41.68	371.20	59.89	1.30	2570.20	484.92	3.53	4.26
5C1	14	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	15	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	16	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	17	S	273.60	41.68	371.20	59.89	1.30	2342.47	644.78	3.17	5.83
5C1	18	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	19	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	20	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	21	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	22	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	23	S	273.60	41.68	371.20	59.89	1.30	2570.20	484.92	3.53	4.26
5C1	24	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	25	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	26	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	27	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	28	S	273.60	41.68	371.20	59.89	1.30	2229.84	452.13	2.99	3.93
5C1	29	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	30	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	31	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	32	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	33	S	273.60	41.68	371.20	59.89	1.30	2342.47	644.78	3.17	5.83
5C1	34	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	35	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	36	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	37	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	38	S	273.60	41.68	371.20	59.89	1.30	2342.47	644.78	3.17	5.83
5C1	39	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	40	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	41	S	273.60	41.68	371.20	59.89	1.30	2362.62	452.13	3.20	3.93
5C1	42	S	273.60	41.68	371.20	59.89	1.30	2642.63	484.92	3.65	4.26
5C1	43	S	273.60	41.68	371.20	59.89	1.30	2342.47	644.78	3.17	5.83
5C1	44	S	274.85	41.93	371.20	59.89	1.30	2342.47	644.78	3.16	5.83
5C1	45	S	258.65	30.86	388.36	59.89	1.30	2362.62	452.13	3.09	4.07
5C1	46	S	286.61	43.30	419.24	59.89	1.30	2740.68	691.43	3.34	6.28
5C1	47	S	278.34	41.08	464.16	59.89	1.30	2740.68	691.43	3.03	6.30
5C1	48	S	275.41	37.60	516.98	59.89	1.30	2229.84	452.13	2.14	3.98
5C1	49	S	275.35	37.12	468.64	59.89	1.30	2342.47	644.78	2.51	5.89
5C1	50	S	261.99	30.54	367.99	59.89	1.30	2362.62	452.13	3.25	4.07
5C1	51	S	236.44	35.03	307.38	39.93	1.30	2362.62	452.13	3.96	6.03
5C1	52	S	211.47	31.73	258.98	39.93	1.30	2229.84	452.13	4.47	6.09
5C1	53	S	194.06	29.34	228.55	39.93	1.30	2362.62	452.13	5.46	6.14
5C1	54	S	189.45	29.73	207.41	39.93	1.30	2362.62	452.13	6.04	6.13
5C1	55	S	177.31	28.20	195.55	39.93	1.30	2362.62	452.13	6.45	6.16
5C1	56	S	140.99	22.93	192.93	39.93	1.30	2362.62	452.13	6.68	6.26
5C1	57	S	149.27	21.06	199.58	39.93	1.30	2642.63	484.92	7.26	6.78
5C1	58	S	183.24	35.43	215.52	39.93	1.30	2342.47	644.78	5.78	8.87
5C1	59	S	245.10	38.55	241.94	39.93	1.30	2362.62	452.13	5.00	5.96
5C1	60	S	212.61	30.18	277.66	39.93	1.30	2362.62	452.13	4.45	6.12
5C1	61	S	227.39	30.65	322.68	39.93	1.30	2362.62	452.13	3.79	6.11
5C1	62	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	63	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	64	S	278.77	40.59	367.47	59.89	1.30	2229.84	452.13	3.01	3.95
5C1	65	S	278.77	40.59	367.47	59.89	1.30	2642.63	484.92	3.67	4.27
5C1	66	S	278.77	40.59	367.47	59.89	1.30	2342.47	644.78	3.19	5.85

South Bracket Floorbeams
5C1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Truss Location	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
			Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
			k-ft	k	k-ft	k		k-ft	k		
5C1	67	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	68	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	69	S	278.77	40.59	367.47	59.89	1.30	2229.84	452.13	3.01	3.95
5C1	70	S	278.77	40.59	367.47	59.89	1.30	2342.47	644.78	3.19	5.85
5C1	71	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	72	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	73	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	74	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	75	S	278.77	40.59	367.47	59.89	1.30	*2362.62	*452.13	3.22	3.95
5C1	76	S	278.77	40.59	367.47	59.89	1.30	*2362.62	*452.13	3.22	3.95
5C1	77	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	78	S	278.77	40.59	367.47	59.89	1.30	*2362.62	*452.13	3.22	3.95
5C1	79	S	278.77	40.59	367.47	59.89	1.30	2642.63	484.92	3.67	4.27
5C1	80	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	81	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	82	S	278.77	40.59	367.47	59.89	1.30	*2362.62	*452.13	3.22	3.95
5C1	83	S	278.77	40.59	367.47	59.89	1.30	2642.63	484.92	3.67	4.27
5C1	84	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	85	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	86	S	278.77	40.59	367.47	59.89	1.30	2229.84	452.13	3.01	3.95
5C1	87	S	278.77	40.59	367.47	59.89	1.30	2570.20	484.92	3.56	4.27
5C1	88	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	89	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	90	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	91	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	92	S	278.77	40.59	367.47	59.89	1.30	*2362.62	*452.13	3.22	3.95
5C1	93	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	94	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	95	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	96	S	278.77	40.59	367.47	59.89	1.30	2229.84	452.13	3.01	3.95
5C1	97	S	278.77	40.59	367.47	59.89	1.30	2229.84	452.13	3.01	3.95
5C1	98	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	99	S	278.77	40.59	367.47	59.89	1.30	2342.47	644.78	3.19	5.85
5C1	100	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	101	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	102	S	278.77	40.59	367.47	59.89	1.30	2342.47	644.78	3.19	5.85
5C1	103	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	104	S	278.77	40.59	367.47	59.89	1.30	2642.63	484.92	3.67	4.27
5C1	105	S	278.77	40.59	367.47	59.89	1.30	*2229.84	*452.13	3.01	3.95
5C1	106	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	107	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	108	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	109	S	278.77	40.59	367.47	59.89	1.30	2362.62	452.13	3.22	3.95
5C1	110	S	281.49	41.56	367.47	59.89	1.30	2362.62	452.13	3.22	3.93
5C1	111	S	255.95	33.38	329.37	39.93	1.30	2642.63	484.92	4.15	6.54
5C1	112	S	247.00	38.51	291.21	39.93	1.30	2362.62	452.13	4.15	5.96
5C1	113	S	207.79	31.04	253.04	39.93	1.30	2362.62	452.13	4.89	6.10
5C1	114	S	195.29	30.49	214.88	39.93	1.30	2642.63	484.92	6.58	6.60
5C1	115	S	156.25	26.00	176.71	39.93	1.30	2362.62	452.13	7.23	6.20
5C1	116	S	156.20	33.59	138.54	39.93	1.30	*2229.84	*452.13	8.66	6.05
5C1	117	S	144.56	29.22	118.04	19.96	1.30	*2229.84	*452.13	10.24	12.27
5C1	118	S	133.63	27.96	114.71	19.96	1.30	*2229.84	*452.13	10.61	12.32
5C1	119	S	141.15	32.28	119.60	19.96	1.30	2570.20	484.92	11.81	13.13
5C1	120	S	131.18	19.61	146.03	39.93	1.30	2229.84	452.13	8.34	6.32
5C1	121	S	179.99	44.28	189.29	39.93	1.30	*2229.84	*452.13	6.24	5.85
5C1	122	S	224.77	39.81	232.54	39.93	1.30	*2229.84	*452.13	4.93	5.93
5C1	123	S	278.21	47.87	326.33	39.93	1.30	*2229.84	*452.13	3.39	5.78
5C1	124	S	330.55	44.86	450.50	59.89	1.30	*2229.84	*452.13	2.36	3.89
5C1	125	S	364.24	53.06	591.19	59.89	1.30	*2229.84	*452.13	1.76	3.79
5C1	126	S	193.73	24.99	785.28	79.86	1.30	2362.62	452.13	1.59	3.11
										1.59	3.11
										126	194

Made By KRS Date 3/29/2012 Job No. P402110046

Checked By ADK Date 3/29/2012

Calculations For: ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

Interior Floorbeams

HS-20 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment		Rating Factor - Shear	
		Moment	Shear	Moment	Shear		Moment	Shear	Inventory	Operating	Inventory	Operating
		k-ft	k	k-ft	k		k-ft	k				
HS-20	0	182.205	51.36	1093.10	87.60	1.29	3093.71	564.26	0.93	1.56	2.03	3.39
HS-20	1	284.374	81.531	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	2	280.4	81.375	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	3	292.366	70.377	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.93	3.22
HS-20	4	294.615	81.009	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.12
HS-20	5	290.642	80.783	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.13
HS-20	6	285.177	81.58	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	7	334.974	71.594	1093.10	87.60	1.29	3955.83	374.86	1.15	1.92	1.15	1.92
HS-20	8	288.289	81.626	1093.10	87.60	1.29	*3093.71	*564.26	0.89	1.48	1.87	3.12
HS-20	9	281.951	81.434	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	10	318.878	81.871	1093.10	87.60	1.29	3093.71	564.26	0.88	1.46	1.87	3.12
HS-20	11	292.848	80.966	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.12
HS-20	12	296.78	70.861	1093.10	87.60	1.29	3093.71	564.26	0.88	1.48	1.93	3.21
HS-20	13	277.589	81.907	1093.10	87.60	1.29	3340.56	501.54	0.97	1.63	1.61	2.69
HS-20	14	293.082	80.966	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.12
HS-20	15	271.946	81.021	1093.10	87.60	1.29	3093.71	564.26	0.90	1.49	1.87	3.12
HS-20	16	277.509	81.245	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	17	294.112	70.564	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.93	3.22
HS-20	18	306.295	68.946	1093.10	87.60	1.29	3955.83	374.86	1.16	1.94	1.16	1.94
HS-20	19	276.81	81.226	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	20	311.267	81.593	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.87	3.12
HS-20	21	275.271	81.171	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	22	296.66	81.094	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.12
HS-20	23	273.62	83.501	1093.10	87.60	1.29	3661.57	378.58	1.08	1.80	1.10	1.84
HS-20	24	277.689	81.266	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	25	270.777	80.962	1093.10	87.60	1.29	3093.71	564.26	0.90	1.50	1.87	3.12
HS-20	26	276.277	81.185	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	27	278.409	81.245	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	28	331.261	71.348	1093.10	87.60	1.29	3955.83	374.86	1.15	1.92	1.15	1.92
HS-20	29	285.559	81.474	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	30	313.653	80.906	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.87	3.13
HS-20	31	278.455	81.298	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	32	296.442	81.368	1093.10	87.60	1.29	*3093.71	*564.26	0.89	1.48	1.87	3.12
HS-20	33	296.614	70.754	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.93	3.21
HS-20	34	280.541	81.477	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	35	292.251	80.744	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.13
HS-20	36	312.908	69.393	1093.10	87.60	1.29	3955.83	374.86	1.16	1.94	1.16	1.94
HS-20	37	297.291	81.195	1093.10	87.60	1.29	3093.71	564.26	0.88	1.48	1.87	3.12
HS-20	38	284.967	81.03	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	39	271.978	80.791	1093.10	87.60	1.29	3093.71	564.26	0.90	1.49	1.87	3.13
HS-20	40	294.354	80.96	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.12
HS-20	41	299.367	80.218	1093.10	87.60	1.29	3093.71	564.26	0.88	1.48	1.88	3.13
HS-20	42	282.75	82.006	1093.10	87.60	1.29	3465.90	520.93	1.01	1.69	1.69	2.82
HS-20	43	302.244	70.664	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.93	3.22
HS-20	44	290.022	81.336	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.12
HS-20	45	292.555	80.357	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.88	3.13
HS-20	46	298.535	80.907	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.48	1.87	3.13
HS-20	47	301.198	71.675	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.92	3.21
HS-20	48	334.257	71.982	1093.10	87.60	1.29	3696.86	369.88	1.07	1.78	1.13	1.88
HS-20	49	301.582	74.908	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.90	3.18
HS-20	50	327.798	78.947	1093.10	87.60	1.29	3093.71	564.26	0.87	1.46	1.88	3.14
HS-20	51	366.077	72.448	1093.10	87.60	1.29	3093.71	564.26	0.86	1.43	1.92	3.20
HS-20	52	411.959	73.661	1093.10	87.60	1.29	3093.71	564.26	0.84	1.40	1.91	3.19
HS-20	53	410.221	89.557	1093.10	87.60	1.29	3093.71	564.26	0.84	1.40	1.83	3.05
HS-20	54	435.759	67.041	1093.10	87.60	1.29	3093.71	564.26	0.83	1.38	1.95	3.25
HS-20	55	475.701	88.967	1093.10	87.60	1.29	3093.71	564.26	0.81	1.35	1.83	3.05
HS-20	56	443.053	77.918	1093.10	87.60	1.29	3093.71	564.26	0.82	1.37	1.89	3.15
HS-20	57	184.169	65.733	1093.10	87.60	1.29	3145.01	564.26	0.95	1.59	1.95	3.26
HS-20	58	239.803	56.257	1093.10	87.60	1.29	3093.71	564.26	0.91	1.52	2.00	3.34
HS-20	59	245.097	58.956	1093.10	87.60	1.29	3093.71	564.26	0.91	1.51	1.99	3.32
HS-20	60	212.611	68.326	1093.10	87.60	1.29	3093.71	564.26	0.92	1.54	1.94	3.24
HS-20	61	227.394	68.768	1093.10	87.60	1.29	3093.71	564.26	0.91	1.53	1.94	3.23
HS-20	62	315.121	68.124	1093.10	87.60	1.29	3093.71	564.26	0.88	1.46	1.94	3.24

Made By KRS Date 3/29/2012 Job No. P402110046

Checked By ADK Date 3/29/2012

Calculations For: ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

Interior Floorbeams
HS-20 TRUCK

***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment		Rating Factor - Shear	
		Moment	Shear	Moment	Shear		Moment	Shear	Inventory	Operating	Inventory	Operating
		k-ft	k	k-ft	k		k-ft	k				
HS-20	63	318.13	73.392	1093.10	87.60	1.29	3093.71	564.26	0.88	1.46	1.91	3.19
HS-20	64	303.024	74.891	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.90	3.18
HS-20	65	303.736	80.022	1093.10	87.60	1.29	3661.57	430.47	1.07	1.78	1.33	2.22
HS-20	66	305.691	79.439	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.47	1.88	3.14
HS-20	67	307.13	75.334	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.90	3.17
HS-20	68	298.144	67.434	1093.10	87.60	1.29	3093.71	564.26	0.88	1.48	1.94	3.24
HS-20	69	307.5	72.667	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.92	3.20
HS-20	70	291.429	77.885	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.89	3.15
HS-20	71	316.286	74.772	1093.10	87.60	1.29	3696.86	369.88	1.07	1.79	1.11	1.86
HS-20	72	282.057	74.677	1093.10	87.60	1.29	2966.36	564.26	0.85	1.42	1.91	3.18
HS-20	73	269.013	82.04	1093.10	87.60	1.29	*3093.71	*564.26	0.90	1.50	1.87	3.11
HS-20	74	280.029	79.857	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.88	3.13
HS-20	75	289.422	76.024	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.90	3.17
HS-20	76	295.922	68.186	1093.10	87.60	1.29	*3093.71	*564.26	0.89	1.48	1.94	3.24
HS-20	77	287.016	81.406	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.87	3.12
HS-20	78	289.227	77.43	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.89	3.16
HS-20	79	263.727	84.911	1093.10	87.60	1.29	3661.57	508.11	1.08	1.81	1.62	2.71
HS-20	80	273.31	79.547	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.88	3.14
HS-20	81	294.389	82.777	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.86	3.11
HS-20	82	279.124	75.287	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.90	3.17
HS-20	83	304.17	65.133	1093.10	87.60	1.29	4388.33	399.48	1.30	2.18	1.28	2.14
HS-20	84	308.362	76.007	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.90	3.17
HS-20	85	314.514	74.686	1093.10	87.60	1.29	3093.71	564.26	0.88	1.46	1.91	3.18
HS-20	86	310.177	73.069	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.91	3.19
HS-20	87	312.135	78.05	1093.10	87.60	1.29	3526.48	448.64	1.02	1.70	1.42	2.36
HS-20	88	306.188	79.248	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.88	3.14
HS-20	89	299.99	78.901	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.88	3.14
HS-20	90	301.728	74.591	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.91	3.18
HS-20	91	275.901	78.602	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.88	3.15
HS-20	92	302.034	75.421	1093.10	87.60	1.29	3093.71	564.26	0.88	1.47	1.90	3.17
HS-20	93	278.268	77.087	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.89	3.16
HS-20	94	289.01	79.937	1093.10	87.60	1.29	*3093.71	*564.26	0.89	1.48	1.88	3.13
HS-20	95	283.747	77.734	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.89	3.15
HS-20	96	306.69	69.835	1093.10	87.60	1.29	3955.83	374.86	1.16	1.94	1.16	1.93
HS-20	97	272.132	79.237	1093.10	87.60	1.29	3093.71	564.26	0.90	1.49	1.88	3.14
HS-20	98	281.544	81.342	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	99	289.098	67.509	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.94	3.24
HS-20	100	259.646	81.139	1093.10	87.60	1.29	3093.71	564.26	0.90	1.50	1.87	3.12
HS-20	101	279.23	77.296	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.89	3.16
HS-20	102	291.192	76.962	1093.10	87.60	1.29	3093.71	564.26	0.89	1.48	1.89	3.16
HS-20	103	274.587	81.753	1093.10	87.60	1.29	3093.71	564.26	0.89	1.49	1.87	3.12
HS-20	104	301.793	78.883	1093.10	87.60	1.29	3548.74	369.88	1.03	1.72	1.09	1.82
HS-20	105	293.75	75.85	1093.10	87.60	1.29	*3093.71	*564.26	0.89	1.48	1.90	3.17
HS-20	106	310.352	77.449	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.47	1.89	3.16
HS-20	107	309.302	75.049	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.47	1.90	3.18
HS-20	108	306.25	73.983	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.47	1.91	3.19
HS-20	109	303.162	78.608	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.47	1.88	3.15
HS-20	110	318.187	75.781	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.46	1.90	3.17
HS-20	111	323.96	87.806	1093.10	87.60	1.29	*2970.22	*564.26	0.83	1.39	1.84	3.06
HS-20	112	356.553	77.092	1093.10	87.60	1.29	*3093.71	*564.26	0.86	1.43	1.89	3.16
HS-20	113	428.276	70.317	1093.10	87.60	1.29	*3093.71	*564.26	0.83	1.38	1.93	3.22
HS-20	114	420.937	97.178	1093.10	87.60	1.29	*2960.56	*564.26	0.79	1.32	1.79	2.98
HS-20	115	448.795	86.044	1093.10	87.60	1.29	*3093.71	*564.26	0.82	1.37	1.84	3.08
HS-20	116	494.022	85.942	1093.10	87.60	1.29	*3093.71	*564.26	0.80	1.34	1.85	3.08
HS-20	117	495.094	76.603	1093.10	87.60	1.29	*3093.71	*564.26	0.80	1.34	1.89	3.16
HS-20	118	521.389	78.591	1093.10	87.60	1.29	*3093.71	*564.26	0.79	1.32	1.88	3.15
HS-20	119	483.196	103.393	1093.10	87.60	1.29	*3093.71	*547.66	0.81	1.34	1.69	2.81
HS-20	120	439.713	100.453	1093.10	87.60	1.29	*3093.71	*564.26	0.82	1.38	1.77	2.95
HS-20	121	440.977	83.019	1093.10	87.60	1.29	*3093.71	*564.26	0.82	1.37	1.86	3.11
HS-20	122	405.919	70.654	1093.10	87.60	1.29	*3093.71	*564.26	0.84	1.40	1.93	3.22
HS-20	123	341.782	69.981	1093.10	87.60	1.29	*3093.71	*564.26	0.87	1.45	1.93	3.22
HS-20	124	300.257	72.65	1093.10	87.60	1.29	*3093.71	*564.26	0.88	1.47	1.92	3.20
HS-20	125	344.181	70.674	1093.10	87.60	1.29	*2998.13	*564.26	0.83	1.39	1.93	3.22
HS-20	126	180.077	40.401	1093.10	87.60	1.29	3696.86	369.88	1.13	1.89	1.29	2.16
									0.79	1.32	1.09	1.82
									114	114	104	104

Made By KRS 3/29/2012 Job No. P402110046

Checked By ADK 3/29/2012

Calculations For. ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

Interior Floorbeams

2F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
2F1	0	182.205	51.36	565.00	45.30	1.29	3093.71	564.26	3.02	6.55
2F1	1	284.374	81.531	565.00	45.30	1.29	3093.71	564.26	2.87	6.03
2F1	2	280.4	81.375	565.00	45.30	1.29	3093.71	564.26	2.88	6.04
2F1	3	292.366	70.377	565.00	45.30	1.29	3093.71	564.26	2.86	6.22
2F1	4	294.615	81.009	565.00	45.30	1.29	3093.71	564.26	2.86	6.04
2F1	5	290.642	80.783	565.00	45.30	1.29	3093.71	564.26	2.87	6.05
2F1	6	285.177	81.58	565.00	45.30	1.29	3093.71	564.26	2.87	6.03
2F1	7	334.974	71.594	565.00	45.30	1.29	3955.83	374.86	3.72	3.71
2F1	8	288.289	81.626	565.00	45.30	1.29	*3093.71	*564.26	2.87	6.03
2F1	9	281.951	81.434	565.00	45.30	1.29	3093.71	564.26	2.88	6.03
2F1	10	318.878	81.871	565.00	45.30	1.29	3093.71	564.26	2.83	6.03
2F1	11	292.848	80.966	565.00	45.30	1.29	3093.71	564.26	2.86	6.04
2F1	12	296.78	70.861	565.00	45.30	1.29	3093.71	564.26	2.86	6.21
2F1	13	277.589	81.907	565.00	45.30	1.29	3340.56	501.54	3.14	5.20
2F1	14	293.082	80.966	565.00	45.30	1.29	3093.71	564.26	2.86	6.04
2F1	15	271.946	81.021	565.00	45.30	1.29	3093.71	564.26	2.89	6.04
2F1	16	277.509	81.245	565.00	45.30	1.29	3093.71	564.26	2.88	6.04
2F1	17	294.112	70.564	565.00	45.30	1.29	3093.71	564.26	2.86	6.22
2F1	18	306.295	68.946	565.00	45.30	1.29	3955.83	374.86	3.75	3.75
2F1	19	276.81	81.226	565.00	45.30	1.29	3093.71	564.26	2.89	6.04
2F1	20	311.267	81.593	565.00	45.30	1.29	3093.71	564.26	2.84	6.03
2F1	21	275.271	81.171	565.00	45.30	1.29	3093.71	564.26	2.89	6.04
2F1	22	296.66	81.094	565.00	45.30	1.29	3093.71	564.26	2.86	6.04
2F1	23	273.62	83.501	565.00	45.30	1.29	3661.57	378.58	3.49	3.55
2F1	24	277.689	81.266	565.00	45.30	1.29	3093.71	564.26	2.88	6.04
2F1	25	270.777	80.962	565.00	45.30	1.29	3093.71	564.26	2.89	6.04
2F1	26	276.277	81.185	565.00	45.30	1.29	3093.71	564.26	2.89	6.04
2F1	27	278.409	81.245	565.00	45.30	1.29	3093.71	564.26	2.88	6.04
2F1	28	331.261	71.348	565.00	45.30	1.29	3955.83	374.86	3.72	3.71
2F1	29	285.559	81.474	565.00	45.30	1.29	3093.71	564.26	2.87	6.03
2F1	30	313.653	80.906	565.00	45.30	1.29	3093.71	564.26	2.83	6.04
2F1	31	278.455	81.298	565.00	45.30	1.29	3093.71	564.26	2.88	6.04
2F1	32	296.442	81.368	565.00	45.30	1.29	*3093.71	*564.26	2.86	6.04
2F1	33	296.614	70.754	565.00	45.30	1.29	3093.71	564.26	2.86	6.22
2F1	34	280.541	81.477	565.00	45.30	1.29	3093.71	564.26	2.88	6.03
2F1	35	292.251	80.744	565.00	45.30	1.29	3093.71	564.26	2.86	6.05
2F1	36	312.908	69.393	565.00	45.30	1.29	3955.83	374.86	3.75	3.75
2F1	37	297.291	81.195	565.00	45.30	1.29	3093.71	564.26	2.86	6.04
2F1	38	284.967	81.03	565.00	45.30	1.29	3093.71	564.26	2.87	6.04
2F1	39	271.978	80.791	565.00	45.30	1.29	3093.71	564.26	2.89	6.05
2F1	40	294.354	80.96	565.00	45.30	1.29	3093.71	564.26	2.86	6.04
2F1	41	299.367	80.218	565.00	45.30	1.29	3093.71	564.26	2.85	6.05
2F1	42	282.75	82.006	565.00	45.30	1.29	3465.90	520.93	3.27	5.45
2F1	43	302.244	70.664	565.00	45.30	1.29	3093.71	564.26	2.85	6.22
2F1	44	290.022	81.336	565.00	45.30	1.29	3093.71	564.26	2.87	6.04
2F1	45	292.555	80.357	565.00	45.30	1.29	3093.71	564.26	2.86	6.05
2F1	46	298.535	80.907	565.00	45.30	1.29	*3093.71	*564.26	2.86	6.04
2F1	47	301.198	71.675	565.00	45.30	1.29	3093.71	564.26	2.85	6.20
2F1	48	334.257	71.982	565.00	45.30	1.29	3696.86	369.88	3.44	3.64
2F1	49	301.582	74.908	565.00	45.30	1.29	3093.71	564.26	2.85	6.15
2F1	50	327.798	78.947	565.00	45.30	1.29	3093.71	564.26	2.82	6.08
2F1	51	366.077	72.448	565.00	45.30	1.29	3093.71	564.26	2.76	6.19
2F1	52	411.959	73.661	565.00	45.30	1.29	3093.71	564.26	2.70	6.17
2F1	53	410.221	89.557	565.00	45.30	1.29	3093.71	564.26	2.70	5.90
2F1	54	435.759	67.041	565.00	45.30	1.29	3093.71	564.26	2.67	6.28
2F1	55	475.701	88.967	565.00	45.30	1.29	3093.71	564.26	2.61	5.91
2F1	56	443.053	77.918	565.00	45.30	1.29	3093.71	564.26	2.66	6.09
2F1	57	184.169	65.733	565.00	45.30	1.29	3145.01	564.26	3.07	6.30
2F1	58	239.803	56.257	565.00	45.30	1.29	3093.71	564.26	2.94	6.46
2F1	59	245.097	58.956	565.00	45.30	1.29	3093.71	564.26	2.93	6.42
2F1	60	212.611	68.326	565.00	45.30	1.29	3093.71	564.26	2.97	6.26
2F1	61	227.394	68.768	565.00	45.30	1.29	3093.71	564.26	2.95	6.25
2F1	62	315.121	68.124	565.00	45.30	1.29	3093.71	564.26	2.83	6.26

Made By KRS 3/29/2012 Job No. P402110046

Checked By ADK 3/29/2012

Calculations For. ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

Interior Floorbeams

2F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
2F1	63	318.13	73.392	565.00	45.30	1.29	3093.71	564.26	2.83	6.17
2F1	64	303.024	74.891	565.00	45.30	1.29	3093.71	564.26	2.85	6.15
2F1	65	303.736	80.022	565.00	45.30	1.29	3661.57	430.47	3.45	4.30
2F1	66	305.691	79.439	565.00	45.30	1.29	*3093.71	*564.26	2.85	6.07
2F1	67	307.13	75.334	565.00	45.30	1.29	3093.71	564.26	2.84	6.14
2F1	68	298.144	67.434	565.00	45.30	1.29	3093.71	564.26	2.86	6.27
2F1	69	307.5	72.667	565.00	45.30	1.29	3093.71	564.26	2.84	6.18
2F1	70	291.429	77.885	565.00	45.30	1.29	3093.71	564.26	2.87	6.09
2F1	71	316.286	74.772	565.00	45.30	1.29	3696.86	369.88	3.47	3.59
2F1	72	282.057	74.677	565.00	45.30	1.29	2966.36	564.26	2.74	6.15
2F1	73	269.013	82.04	565.00	45.30	1.29	*3093.71	*564.26	2.90	6.02
2F1	74	280.029	79.857	565.00	45.30	1.29	3093.71	564.26	2.88	6.06
2F1	75	289.422	76.024	565.00	45.30	1.29	3093.71	564.26	2.87	6.13
2F1	76	295.922	68.186	565.00	45.30	1.29	*3093.71	*564.26	2.86	6.26
2F1	77	287.016	81.406	565.00	45.30	1.29	3093.71	564.26	2.87	6.03
2F1	78	289.227	77.43	565.00	45.30	1.29	3093.71	564.26	2.87	6.10
2F1	79	263.727	84.911	565.00	45.30	1.29	3661.57	508.11	3.50	5.24
2F1	80	273.31	79.547	565.00	45.30	1.29	3093.71	564.26	2.89	6.07
2F1	81	294.389	82.777	565.00	45.30	1.29	3093.71	564.26	2.86	6.01
2F1	82	279.124	75.287	565.00	45.30	1.29	3093.71	564.26	2.88	6.14
2F1	83	304.17	65.133	565.00	45.30	1.29	4388.33	399.48	4.21	4.14
2F1	84	308.362	76.007	565.00	45.30	1.29	3093.71	564.26	2.84	6.13
2F1	85	314.514	74.686	565.00	45.30	1.29	3093.71	564.26	2.83	6.15
2F1	86	310.177	73.069	565.00	45.30	1.29	3093.71	564.26	2.84	6.18
2F1	87	312.135	78.05	565.00	45.30	1.29	3526.48	448.64	3.29	4.57
2F1	88	306.188	79.248	565.00	45.30	1.29	3093.71	564.26	2.85	6.07
2F1	89	299.99	78.901	565.00	45.30	1.29	3093.71	564.26	2.85	6.08
2F1	90	301.728	74.591	565.00	45.30	1.29	3093.71	564.26	2.85	6.15
2F1	91	275.901	78.602	565.00	45.30	1.29	3093.71	564.26	2.89	6.08
2F1	92	302.034	75.421	565.00	45.30	1.29	3093.71	564.26	2.85	6.14
2F1	93	278.268	77.087	565.00	45.30	1.29	3093.71	564.26	2.88	6.11
2F1	94	289.01	79.937	565.00	45.30	1.29	*3093.71	*564.26	2.87	6.06
2F1	95	283.747	77.734	565.00	45.30	1.29	3093.71	564.26	2.88	6.10
2F1	96	306.69	69.835	565.00	45.30	1.29	3955.83	374.86	3.75	3.74
2F1	97	272.132	79.237	565.00	45.30	1.29	3093.71	564.26	2.89	6.07
2F1	98	281.544	81.342	565.00	45.30	1.29	3093.71	564.26	2.88	6.04
2F1	99	289.098	67.509	565.00	45.30	1.29	3093.71	564.26	2.87	6.27
2F1	100	259.646	81.139	565.00	45.30	1.29	3093.71	564.26	2.91	6.04
2F1	101	279.23	77.296	565.00	45.30	1.29	3093.71	564.26	2.88	6.10
2F1	102	291.192	76.962	565.00	45.30	1.29	3093.71	564.26	2.87	6.11
2F1	103	274.587	81.753	565.00	45.30	1.29	3093.71	564.26	2.89	6.03
2F1	104	301.793	78.883	565.00	45.30	1.29	3548.74	369.88	3.33	3.52
2F1	105	293.75	75.85	565.00	45.30	1.29	*3093.71	*564.26	2.86	6.13
2F1	106	310.352	77.449	565.00	45.30	1.29	*3093.71	*564.26	2.84	6.10
2F1	107	309.302	75.049	565.00	45.30	1.29	*3093.71	*564.26	2.84	6.14
2F1	108	306.25	73.983	565.00	45.30	1.29	*3093.71	*564.26	2.84	6.16
2F1	109	303.162	78.608	565.00	45.30	1.29	*3093.71	*564.26	2.85	6.08
2F1	110	318.187	75.781	565.00	45.30	1.29	*3093.71	*564.26	2.83	6.13
2F1	111	323.96	87.806	565.00	45.30	1.29	*2970.22	*564.26	2.69	5.93
2F1	112	356.553	77.092	565.00	45.30	1.29	*3093.71	*564.26	2.78	6.11
2F1	113	428.276	70.317	565.00	45.30	1.29	*3093.71	*564.26	2.68	6.22
2F1	114	420.937	97.178	565.00	45.30	1.29	*2960.56	*564.26	2.55	5.76
2F1	115	448.795	86.044	565.00	45.30	1.29	*3093.71	*564.26	2.65	5.96
2F1	116	494.022	85.942	565.00	45.30	1.29	*3093.71	*564.26	2.59	5.96
2F1	117	495.094	76.603	565.00	45.30	1.29	*3093.71	*564.26	2.59	6.12
2F1	118	521.389	78.591	565.00	45.30	1.29	*3093.71	*564.26	2.55	6.08
2F1	119	483.196	103.393	565.00	45.30	1.29	*3093.71	*547.66	2.60	5.44
2F1	120	439.713	100.453	565.00	45.30	1.29	*3093.71	*564.26	2.66	5.71
2F1	121	440.977	83.019	565.00	45.30	1.29	*3093.71	*564.26	2.66	6.01
2F1	122	405.919	70.654	565.00	45.30	1.29	*3093.71	*564.26	2.71	6.22
2F1	123	341.782	69.981	565.00	45.30	1.29	*3093.71	*564.26	2.80	6.23
2F1	124	300.257	72.65	565.00	45.30	1.29	*3093.71	*564.26	2.85	6.18
2F1	125	344.181	70.674	565.00	45.30	1.29	*2998.13	*564.26	2.69	6.22
2F1	126	180.077	40.401	565.00	45.30	1.29	3696.86	369.88	3.65	4.18
									2.55	3.52
									114	104

Made By KRS 3/29/2012 Job No. P402110046

Checked By ADK 3/29/2012

Calculations For. ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

Interior Floorbeams

3F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
3F1	0	182.205	51.36	843.40	67.60	1.29	3093.71	564.26	2.02	4.39
3F1	1	284.374	81.531	843.40	67.60	1.29	3093.71	564.26	1.93	4.04
3F1	2	280.4	81.375	843.40	67.60	1.29	3093.71	564.26	1.93	4.04
3F1	3	292.366	70.377	843.40	67.60	1.29	3093.71	564.26	1.92	4.17
3F1	4	294.615	81.009	843.40	67.60	1.29	3093.71	564.26	1.92	4.05
3F1	5	290.642	80.783	843.40	67.60	1.29	3093.71	564.26	1.92	4.05
3F1	6	285.177	81.58	843.40	67.60	1.29	3093.71	564.26	1.93	4.04
3F1	7	334.974	71.594	843.40	67.60	1.29	3955.83	374.86	2.49	2.49
3F1	8	288.289	81.626	843.40	67.60	1.29	*3093.71	*564.26	1.92	4.04
3F1	9	281.951	81.434	843.40	67.60	1.29	3093.71	564.26	1.93	4.04
3F1	10	318.878	81.871	843.40	67.60	1.29	3093.71	564.26	1.89	4.04
3F1	11	292.848	80.966	843.40	67.60	1.29	3093.71	564.26	1.92	4.05
3F1	12	296.78	70.861	843.40	67.60	1.29	3093.71	564.26	1.91	4.16
3F1	13	277.589	81.907	843.40	67.60	1.29	3340.56	501.54	2.11	3.48
3F1	14	293.082	80.966	843.40	67.60	1.29	3093.71	564.26	1.92	4.05
3F1	15	271.946	81.021	843.40	67.60	1.29	3093.71	564.26	1.94	4.05
3F1	16	277.509	81.245	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	17	294.112	70.564	843.40	67.60	1.29	3093.71	564.26	1.92	4.17
3F1	18	306.295	68.946	843.40	67.60	1.29	3955.83	374.86	2.52	2.52
3F1	19	276.81	81.226	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	20	311.267	81.593	843.40	67.60	1.29	3093.71	564.26	1.90	4.04
3F1	21	275.271	81.171	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	22	296.66	81.094	843.40	67.60	1.29	3093.71	564.26	1.91	4.05
3F1	23	273.62	83.501	843.40	67.60	1.29	3661.57	378.58	2.34	2.38
3F1	24	277.689	81.266	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	25	270.777	80.962	843.40	67.60	1.29	3093.71	564.26	1.94	4.05
3F1	26	276.277	81.185	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	27	278.409	81.245	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	28	331.261	71.348	843.40	67.60	1.29	3955.83	374.86	2.49	2.49
3F1	29	285.559	81.474	843.40	67.60	1.29	3093.71	564.26	1.92	4.04
3F1	30	313.653	80.906	843.40	67.60	1.29	3093.71	564.26	1.90	4.05
3F1	31	278.455	81.298	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	32	296.442	81.368	843.40	67.60	1.29	*3093.71	*564.26	1.91	4.04
3F1	33	296.614	70.754	843.40	67.60	1.29	3093.71	564.26	1.91	4.17
3F1	34	280.541	81.477	843.40	67.60	1.29	3093.71	564.26	1.93	4.04
3F1	35	292.251	80.744	843.40	67.60	1.29	3093.71	564.26	1.92	4.05
3F1	36	312.908	69.393	843.40	67.60	1.29	3955.83	374.86	2.51	2.51
3F1	37	297.291	81.195	843.40	67.60	1.29	3093.71	564.26	1.91	4.05
3F1	38	284.967	81.03	843.40	67.60	1.29	3093.71	564.26	1.93	4.05
3F1	39	271.978	80.791	843.40	67.60	1.29	3093.71	564.26	1.94	4.05
3F1	40	294.354	80.96	843.40	67.60	1.29	3093.71	564.26	1.92	4.05
3F1	41	299.367	80.218	843.40	67.60	1.29	3093.71	564.26	1.91	4.06
3F1	42	282.75	82.006	843.40	67.60	1.29	3465.90	520.93	2.19	3.65
3F1	43	302.244	70.664	843.40	67.60	1.29	3093.71	564.26	1.91	4.17
3F1	44	290.022	81.336	843.40	67.60	1.29	3093.71	564.26	1.92	4.04
3F1	45	292.555	80.357	843.40	67.60	1.29	3093.71	564.26	1.92	4.06
3F1	46	298.535	80.907	843.40	67.60	1.29	*3093.71	*564.26	1.91	4.05
3F1	47	301.198	71.675	843.40	67.60	1.29	3093.71	564.26	1.91	4.16
3F1	48	334.257	71.982	843.40	67.60	1.29	3696.86	369.88	2.31	2.44
3F1	49	301.582	74.908	843.40	67.60	1.29	3093.71	564.26	1.91	4.12
3F1	50	327.798	78.947	843.40	67.60	1.29	3093.71	564.26	1.89	4.07
3F1	51	366.077	72.448	843.40	67.60	1.29	3093.71	564.26	1.85	4.15
3F1	52	411.959	73.661	843.40	67.60	1.29	3093.71	564.26	1.81	4.13
3F1	53	410.221	89.557	843.40	67.60	1.29	3093.71	564.26	1.81	3.95
3F1	54	435.759	67.041	843.40	67.60	1.29	3093.71	564.26	1.79	4.21
3F1	55	475.701	88.967	843.40	67.60	1.29	3093.71	564.26	1.75	3.96
3F1	56	443.053	77.918	843.40	67.60	1.29	3093.71	564.26	1.78	4.08
3F1	57	184.169	65.733	843.40	67.60	1.29	3145.01	564.26	2.05	4.22
3F1	58	239.803	56.257	843.40	67.60	1.29	3093.71	564.26	1.97	4.33
3F1	59	245.097	58.956	843.40	67.60	1.29	3093.71	564.26	1.96	4.30
3F1	60	212.611	68.326	843.40	67.60	1.29	3093.71	564.26	1.99	4.19
3F1	61	227.394	68.768	843.40	67.60	1.29	3093.71	564.26	1.98	4.19
3F1	62	315.121	68.124	843.40	67.60	1.29	3093.71	564.26	1.90	4.20

Made By KRS 3/29/2012 Job No. P402110046

Checked By ADK 3/29/2012

Calculations For. ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

Interior Floorbeams

3F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
3F1	63	318.13	73.392	843.40	67.60	1.29	3093.71	564.26	1.89	4.14
3F1	64	303.024	74.891	843.40	67.60	1.29	3093.71	564.26	1.91	4.12
3F1	65	303.736	80.022	843.40	67.60	1.29	3661.57	430.47	2.31	2.88
3F1	66	305.691	79.439	843.40	67.60	1.29	*3093.71	*564.26	1.91	4.07
3F1	67	307.13	75.334	843.40	67.60	1.29	3093.71	564.26	1.91	4.11
3F1	68	298.144	67.434	843.40	67.60	1.29	3093.71	564.26	1.91	4.20
3F1	69	307.5	72.667	843.40	67.60	1.29	3093.71	564.26	1.90	4.14
3F1	70	291.429	77.885	843.40	67.60	1.29	3093.71	564.26	1.92	4.08
3F1	71	316.286	74.772	843.40	67.60	1.29	3696.86	369.88	2.32	2.41
3F1	72	282.057	74.677	843.40	67.60	1.29	2966.36	564.26	1.84	4.12
3F1	73	269.013	82.04	843.40	67.60	1.29	*3093.71	*564.26	1.94	4.04
3F1	74	280.029	79.857	843.40	67.60	1.29	3093.71	564.26	1.93	4.06
3F1	75	289.422	76.024	843.40	67.60	1.29	3093.71	564.26	1.92	4.11
3F1	76	295.922	68.186	843.40	67.60	1.29	*3093.71	*564.26	1.92	4.20
3F1	77	287.016	81.406	843.40	67.60	1.29	3093.71	564.26	1.92	4.04
3F1	78	289.227	77.43	843.40	67.60	1.29	3093.71	564.26	1.92	4.09
3F1	79	263.727	84.911	843.40	67.60	1.29	3661.57	508.11	2.35	3.51
3F1	80	273.31	79.547	843.40	67.60	1.29	3093.71	564.26	1.94	4.07
3F1	81	294.389	82.777	843.40	67.60	1.29	3093.71	564.26	1.92	4.03
3F1	82	279.124	75.287	843.40	67.60	1.29	3093.71	564.26	1.93	4.11
3F1	83	304.17	65.133	843.40	67.60	1.29	4388.33	399.48	2.82	2.78
3F1	84	308.362	76.007	843.40	67.60	1.29	3093.71	564.26	1.90	4.11
3F1	85	314.514	74.686	843.40	67.60	1.29	3093.71	564.26	1.90	4.12
3F1	86	310.177	73.069	843.40	67.60	1.29	3093.71	564.26	1.90	4.14
3F1	87	312.135	78.05	843.40	67.60	1.29	3526.48	448.64	2.21	3.06
3F1	88	306.188	79.248	843.40	67.60	1.29	3093.71	564.26	1.91	4.07
3F1	89	299.99	78.901	843.40	67.60	1.29	3093.71	564.26	1.91	4.07
3F1	90	301.728	74.591	843.40	67.60	1.29	3093.71	564.26	1.91	4.12
3F1	91	275.901	78.602	843.40	67.60	1.29	3093.71	564.26	1.93	4.08
3F1	92	302.034	75.421	843.40	67.60	1.29	3093.71	564.26	1.91	4.11
3F1	93	278.268	77.087	843.40	67.60	1.29	3093.71	564.26	1.93	4.09
3F1	94	289.01	79.937	843.40	67.60	1.29	*3093.71	*564.26	1.92	4.06
3F1	95	283.747	77.734	843.40	67.60	1.29	3093.71	564.26	1.93	4.09
3F1	96	306.69	69.835	843.40	67.60	1.29	3955.83	374.86	2.51	2.51
3F1	97	272.132	79.237	843.40	67.60	1.29	3093.71	564.26	1.94	4.07
3F1	98	281.544	81.342	843.40	67.60	1.29	3093.71	564.26	1.93	4.04
3F1	99	289.098	67.509	843.40	67.60	1.29	3093.71	564.26	1.92	4.20
3F1	100	259.646	81.139	843.40	67.60	1.29	3093.71	564.26	1.95	4.05
3F1	101	279.23	77.296	843.40	67.60	1.29	3093.71	564.26	1.93	4.09
3F1	102	291.192	76.962	843.40	67.60	1.29	3093.71	564.26	1.92	4.09
3F1	103	274.587	81.753	843.40	67.60	1.29	3093.71	564.26	1.93	4.04
3F1	104	301.793	78.883	843.40	67.60	1.29	3548.74	369.88	2.23	2.36
3F1	105	293.75	75.85	843.40	67.60	1.29	*3093.71	*564.26	1.92	4.11
3F1	106	310.352	77.449	843.40	67.60	1.29	*3093.71	*564.26	1.90	4.09
3F1	107	309.302	75.049	843.40	67.60	1.29	*3093.71	*564.26	1.90	4.12
3F1	108	306.25	73.983	843.40	67.60	1.29	*3093.71	*564.26	1.91	4.13
3F1	109	303.162	78.608	843.40	67.60	1.29	*3093.71	*564.26	1.91	4.08
3F1	110	318.187	75.781	843.40	67.60	1.29	*3093.71	*564.26	1.89	4.11
3F1	111	323.96	87.806	843.40	67.60	1.29	*2970.22	*564.26	1.80	3.97
3F1	112	356.553	77.092	843.40	67.60	1.29	*3093.71	*564.26	1.86	4.09
3F1	113	428.276	70.317	843.40	67.60	1.29	*3093.71	*564.26	1.79	4.17
3F1	114	420.937	97.178	843.40	67.60	1.29	*2960.56	*564.26	1.71	3.86
3F1	115	448.795	86.044	843.40	67.60	1.29	*3093.71	*564.26	1.77	3.99
3F1	116	494.022	85.942	843.40	67.60	1.29	*3093.71	*564.26	1.73	3.99
3F1	117	495.094	76.603	843.40	67.60	1.29	*3093.71	*564.26	1.73	4.10
3F1	118	521.389	78.591	843.40	67.60	1.29	*3093.71	*564.26	1.71	4.08
3F1	119	483.196	103.393	843.40	67.60	1.29	*3093.71	*547.66	1.74	3.65
3F1	120	439.713	100.453	843.40	67.60	1.29	*3093.71	*564.26	1.78	3.83
3F1	121	440.977	83.019	843.40	67.60	1.29	*3093.71	*564.26	1.78	4.03
3F1	122	405.919	70.654	843.40	67.60	1.29	*3093.71	*564.26	1.81	4.17
3F1	123	341.782	69.981	843.40	67.60	1.29	*3093.71	*564.26	1.87	4.17
3F1	124	300.257	72.65	843.40	67.60	1.29	*3093.71	*564.26	1.91	4.14
3F1	125	344.181	70.674	843.40	67.60	1.29	*2998.13	*564.26	1.80	4.17
3F1	126	180.077	40.401	843.40	67.60	1.29	3696.86	369.88	2.45	2.80
									1.71	2.36
									114	104

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Checked By ADK 3/29/2012

Calculations For: ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

Interior Floorbeams

4F1 TRUCK ***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
4F1	0	182.205	51.36	953.90	76.40	1.29	3093.71	564.26	1.79	3.88
4F1	1	284.374	81.531	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	2	280.4	81.375	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	3	292.366	70.377	953.90	76.40	1.29	3093.71	564.26	1.70	3.69
4F1	4	294.615	81.009	953.90	76.40	1.29	3093.71	564.26	1.69	3.58
4F1	5	290.642	80.783	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	6	285.177	81.58	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	7	334.974	71.594	953.90	76.40	1.29	3955.83	374.86	2.20	2.20
4F1	8	288.289	81.626	953.90	76.40	1.29	*3093.71	*564.26	1.70	3.58
4F1	9	281.951	81.434	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	10	318.878	81.871	953.90	76.40	1.29	3093.71	564.26	1.67	3.57
4F1	11	292.848	80.966	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	12	296.78	70.861	953.90	76.40	1.29	3093.71	564.26	1.69	3.69
4F1	13	277.589	81.907	953.90	76.40	1.29	3340.56	501.54	1.86	3.08
4F1	14	293.082	80.966	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	15	271.946	81.021	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	16	277.509	81.245	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	17	294.112	70.564	953.90	76.40	1.29	3093.71	564.26	1.69	3.69
4F1	18	306.295	68.946	953.90	76.40	1.29	3955.83	374.86	2.22	2.23
4F1	19	276.81	81.226	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	20	311.267	81.593	953.90	76.40	1.29	3093.71	564.26	1.68	3.58
4F1	21	275.271	81.171	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	22	296.66	81.094	953.90	76.40	1.29	3093.71	564.26	1.69	3.58
4F1	23	273.62	83.501	953.90	76.40	1.29	3661.57	378.58	2.07	2.11
4F1	24	277.689	81.266	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	25	270.777	80.962	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	26	276.277	81.185	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	27	278.409	81.245	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	28	331.261	71.348	953.90	76.40	1.29	3955.83	374.86	2.20	2.20
4F1	29	285.559	81.474	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	30	313.653	80.906	953.90	76.40	1.29	3093.71	564.26	1.68	3.58
4F1	31	278.455	81.298	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	32	296.442	81.368	953.90	76.40	1.29	*3093.71	*564.26	1.69	3.58
4F1	33	296.614	70.754	953.90	76.40	1.29	3093.71	564.26	1.69	3.69
4F1	34	280.541	81.477	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	35	292.251	80.744	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	36	312.908	69.393	953.90	76.40	1.29	3955.83	374.86	2.22	2.22
4F1	37	297.291	81.195	953.90	76.40	1.29	3093.71	564.26	1.69	3.58
4F1	38	284.967	81.03	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	39	271.978	80.791	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	40	294.354	80.96	953.90	76.40	1.29	3093.71	564.26	1.69	3.58
4F1	41	299.367	80.218	953.90	76.40	1.29	3093.71	564.26	1.69	3.59
4F1	42	282.75	82.006	953.90	76.40	1.29	3465.90	520.93	1.94	3.23
4F1	43	302.244	70.664	953.90	76.40	1.29	3093.71	564.26	1.69	3.69
4F1	44	290.022	81.336	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	45	292.555	80.357	953.90	76.40	1.29	3093.71	564.26	1.70	3.59
4F1	46	298.535	80.907	953.90	76.40	1.29	*3093.71	*564.26	1.69	3.58
4F1	47	301.198	71.675	953.90	76.40	1.29	3093.71	564.26	1.69	3.68
4F1	48	334.257	71.982	953.90	76.40	1.29	3696.86	369.88	2.04	2.16
4F1	49	301.582	74.908	953.90	76.40	1.29	3093.71	564.26	1.69	3.64
4F1	50	327.798	78.947	953.90	76.40	1.29	3093.71	564.26	1.67	3.60
4F1	51	366.077	72.448	953.90	76.40	1.29	3093.71	564.26	1.64	3.67
4F1	52	411.959	73.661	953.90	76.40	1.29	3093.71	564.26	1.60	3.66
4F1	53	410.221	89.557	953.90	76.40	1.29	3093.71	564.26	1.60	3.50
4F1	54	435.759	67.041	953.90	76.40	1.29	3093.71	564.26	1.58	3.72
4F1	55	475.701	88.967	953.90	76.40	1.29	3093.71	564.26	1.55	3.50
4F1	56	443.053	77.918	953.90	76.40	1.29	3093.71	564.26	1.57	3.61
4F1	57	184.169	65.733	953.90	76.40	1.29	3145.01	564.26	1.82	3.74
4F1	58	239.803	56.257	953.90	76.40	1.29	3093.71	564.26	1.74	3.83
4F1	59	245.097	58.956	953.90	76.40	1.29	3093.71	564.26	1.73	3.81
4F1	60	212.611	68.326	953.90	76.40	1.29	3093.71	564.26	1.76	3.71
4F1	61	227.394	68.768	953.90	76.40	1.29	3093.71	564.26	1.75	3.71
4F1	62	315.121	68.124	953.90	76.40	1.29	3093.71	564.26	1.68	3.71

Made By KRS 3/29/2012 Job No. P402110046

Checked By ADK 3/29/2012

Calculations For: ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

Interior Floorbeams

4F1 TRUCK

***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
4F1	63	318.13	73.392	953.90	76.40	1.29	3093.71	564.26	1.68	3.66
4F1	64	303.024	74.891	953.90	76.40	1.29	3093.71	564.26	1.69	3.64
4F1	65	303.736	80.022	953.90	76.40	1.29	3661.57	430.47	2.04	2.55
4F1	66	305.691	79.439	953.90	76.40	1.29	*3093.71	*564.26	1.69	3.60
4F1	67	307.13	75.334	953.90	76.40	1.29	3093.71	564.26	1.68	3.64
4F1	68	298.144	67.434	953.90	76.40	1.29	3093.71	564.26	1.69	3.72
4F1	69	307.5	72.667	953.90	76.40	1.29	3093.71	564.26	1.68	3.67
4F1	70	291.429	77.885	953.90	76.40	1.29	3093.71	564.26	1.70	3.61
4F1	71	316.286	74.772	953.90	76.40	1.29	3696.86	369.88	2.05	2.13
4F1	72	282.057	74.677	953.90	76.40	1.29	2966.36	564.26	1.63	3.65
4F1	73	269.013	82.04	953.90	76.40	1.29	*3093.71	*564.26	1.72	3.57
4F1	74	280.029	79.857	953.90	76.40	1.29	3093.71	564.26	1.71	3.59
4F1	75	289.422	76.024	953.90	76.40	1.29	3093.71	564.26	1.70	3.63
4F1	76	295.922	68.186	953.90	76.40	1.29	*3093.71	*564.26	1.69	3.71
4F1	77	287.016	81.406	953.90	76.40	1.29	3093.71	564.26	1.70	3.58
4F1	78	289.227	77.43	953.90	76.40	1.29	3093.71	564.26	1.70	3.62
4F1	79	263.727	84.911	953.90	76.40	1.29	3661.57	508.11	2.07	3.10
4F1	80	273.31	79.547	953.90	76.40	1.29	3093.71	564.26	1.71	3.60
4F1	81	294.389	82.777	953.90	76.40	1.29	3093.71	564.26	1.69	3.56
4F1	82	279.124	75.287	953.90	76.40	1.29	3093.71	564.26	1.71	3.64
4F1	83	304.17	65.133	953.90	76.40	1.29	4388.33	399.48	2.50	2.46
4F1	84	308.362	76.007	953.90	76.40	1.29	3093.71	564.26	1.68	3.63
4F1	85	314.514	74.686	953.90	76.40	1.29	3093.71	564.26	1.68	3.65
4F1	86	310.177	73.069	953.90	76.40	1.29	3093.71	564.26	1.68	3.66
4F1	87	312.135	78.05	953.90	76.40	1.29	3526.48	448.64	1.95	2.71
4F1	88	306.188	79.248	953.90	76.40	1.29	3093.71	564.26	1.69	3.60
4F1	89	299.99	78.901	953.90	76.40	1.29	3093.71	564.26	1.69	3.60
4F1	90	301.728	74.591	953.90	76.40	1.29	3093.71	564.26	1.69	3.65
4F1	91	275.901	78.602	953.90	76.40	1.29	3093.71	564.26	1.71	3.61
4F1	92	302.034	75.421	953.90	76.40	1.29	3093.71	564.26	1.69	3.64
4F1	93	278.268	77.087	953.90	76.40	1.29	3093.71	564.26	1.71	3.62
4F1	94	289.01	79.937	953.90	76.40	1.29	*3093.71	*564.26	1.70	3.59
4F1	95	283.747	77.734	953.90	76.40	1.29	3093.71	564.26	1.70	3.62
4F1	96	306.69	69.835	953.90	76.40	1.29	3955.83	374.86	2.22	2.22
4F1	97	272.132	79.237	953.90	76.40	1.29	3093.71	564.26	1.71	3.60
4F1	98	281.544	81.342	953.90	76.40	1.29	3093.71	564.26	1.71	3.58
4F1	99	289.098	67.509	953.90	76.40	1.29	3093.71	564.26	1.70	3.72
4F1	100	259.646	81.139	953.90	76.40	1.29	3093.71	564.26	1.72	3.58
4F1	101	279.23	77.296	953.90	76.40	1.29	3093.71	564.26	1.71	3.62
4F1	102	291.192	76.962	953.90	76.40	1.29	3093.71	564.26	1.70	3.62
4F1	103	274.587	81.753	953.90	76.40	1.29	3093.71	564.26	1.71	3.57
4F1	104	301.793	78.883	953.90	76.40	1.29	3548.74	369.88	1.97	2.09
4F1	105	293.75	75.85	953.90	76.40	1.29	*3093.71	*564.26	1.70	3.63
4F1	106	310.352	77.449	953.90	76.40	1.29	*3093.71	*564.26	1.68	3.62
4F1	107	309.302	75.049	953.90	76.40	1.29	*3093.71	*564.26	1.68	3.64
4F1	108	306.25	73.983	953.90	76.40	1.29	*3093.71	*564.26	1.69	3.65
4F1	109	303.162	78.608	953.90	76.40	1.29	*3093.71	*564.26	1.69	3.61
4F1	110	318.187	75.781	953.90	76.40	1.29	*3093.71	*564.26	1.68	3.64
4F1	111	323.96	87.806	953.90	76.40	1.29	*2970.22	*564.26	1.59	3.51
4F1	112	356.553	77.092	953.90	76.40	1.29	*3093.71	*564.26	1.64	3.62
4F1	113	428.276	70.317	953.90	76.40	1.29	*3093.71	*564.26	1.59	3.69
4F1	114	420.937	97.178	953.90	76.40	1.29	*2960.56	*564.26	1.51	3.42
4F1	115	448.795	86.044	953.90	76.40	1.29	*3093.71	*564.26	1.57	3.53
4F1	116	494.022	85.942	953.90	76.40	1.29	*3093.71	*564.26	1.53	3.53
4F1	117	495.094	76.603	953.90	76.40	1.29	*3093.71	*564.26	1.53	3.63
4F1	118	521.389	78.591	953.90	76.40	1.29	*3093.71	*564.26	1.51	3.61
4F1	119	483.196	103.393	953.90	76.40	1.29	*3093.71	*547.66	1.54	3.23
4F1	120	439.713	100.453	953.90	76.40	1.29	*3093.71	*564.26	1.58	3.38
4F1	121	440.977	83.019	953.90	76.40	1.29	*3093.71	*564.26	1.58	3.56
4F1	122	405.919	70.654	953.90	76.40	1.29	*3093.71	*564.26	1.60	3.69
4F1	123	341.782	69.981	953.90	76.40	1.29	*3093.71	*564.26	1.66	3.69
4F1	124	300.257	72.65	953.90	76.40	1.29	*3093.71	*564.26	1.69	3.67
4F1	125	344.181	70.674	953.90	76.40	1.29	*2998.13	*564.26	1.59	3.69
4F1	126	180.077	40.401	953.90	76.40	1.29	3696.86	369.88	2.16	2.48
									1.51	2.09
									114	104

Made By KRS 3/29/2012

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Job No. P402110046

Calculations For: ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

Interior Floorbeams

5C1 TRUCK

***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
5C1	0	182.205	51.36	818.80	65.60	1.29	3093.71	564.26	2.08	4.52
5C1	1	284.374	81.531	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	2	280.4	81.375	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	3	292.366	70.377	818.80	65.60	1.29	3093.71	564.26	1.98	4.30
5C1	4	294.615	81.009	818.80	65.60	1.29	3093.71	564.26	1.97	4.17
5C1	5	290.642	80.783	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	6	285.177	81.58	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	7	334.974	71.594	818.80	65.60	1.29	3955.83	374.86	2.56	2.56
5C1	8	288.289	81.626	818.80	65.60	1.29	*3093.71	*564.26	1.98	4.16
5C1	9	281.951	81.434	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	10	318.878	81.871	818.80	65.60	1.29	3093.71	564.26	1.95	4.16
5C1	11	292.848	80.966	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	12	296.78	70.861	818.80	65.60	1.29	3093.71	564.26	1.97	4.29
5C1	13	277.589	81.907	818.80	65.60	1.29	3340.56	501.54	2.17	3.59
5C1	14	293.082	80.966	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	15	271.946	81.021	818.80	65.60	1.29	3093.71	564.26	2.00	4.17
5C1	16	277.509	81.245	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	17	294.112	70.564	818.80	65.60	1.29	3093.71	564.26	1.97	4.30
5C1	18	306.295	68.946	818.80	65.60	1.29	3955.83	374.86	2.59	2.59
5C1	19	276.81	81.226	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	20	311.267	81.593	818.80	65.60	1.29	3093.71	564.26	1.96	4.16
5C1	21	275.271	81.171	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	22	296.66	81.094	818.80	65.60	1.29	3093.71	564.26	1.97	4.17
5C1	23	273.62	83.501	818.80	65.60	1.29	3661.57	378.58	2.41	2.45
5C1	24	277.689	81.266	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	25	270.777	80.962	818.80	65.60	1.29	3093.71	564.26	2.00	4.17
5C1	26	276.277	81.185	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	27	278.409	81.245	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	28	331.261	71.348	818.80	65.60	1.29	3955.83	374.86	2.57	2.56
5C1	29	285.559	81.474	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	30	313.653	80.906	818.80	65.60	1.29	3093.71	564.26	1.96	4.17
5C1	31	278.455	81.298	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	32	296.442	81.368	818.80	65.60	1.29	*3093.71	*564.26	1.97	4.17
5C1	33	296.614	70.754	818.80	65.60	1.29	3093.71	564.26	1.97	4.29
5C1	34	280.541	81.477	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	35	292.251	80.744	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	36	312.908	69.393	818.80	65.60	1.29	3955.83	374.86	2.58	2.59
5C1	37	297.291	81.195	818.80	65.60	1.29	3093.71	564.26	1.97	4.17
5C1	38	284.967	81.03	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	39	271.978	80.791	818.80	65.60	1.29	3093.71	564.26	2.00	4.17
5C1	40	294.354	80.96	818.80	65.60	1.29	3093.71	564.26	1.97	4.17
5C1	41	299.367	80.218	818.80	65.60	1.29	3093.71	564.26	1.97	4.18
5C1	42	282.75	82.006	818.80	65.60	1.29	3465.90	520.93	2.26	3.77
5C1	43	302.244	70.664	818.80	65.60	1.29	3093.71	564.26	1.97	4.29
5C1	44	290.022	81.336	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	45	292.555	80.357	818.80	65.60	1.29	3093.71	564.26	1.98	4.18
5C1	46	298.535	80.907	818.80	65.60	1.29	*3093.71	*564.26	1.97	4.17
5C1	47	301.198	71.675	818.80	65.60	1.29	3093.71	564.26	1.97	4.28
5C1	48	334.257	71.982	818.80	65.60	1.29	3696.86	369.88	2.38	2.51
5C1	49	301.582	74.908	818.80	65.60	1.29	3093.71	564.26	1.97	4.24
5C1	50	327.798	78.947	818.80	65.60	1.29	3093.71	564.26	1.94	4.20
5C1	51	366.077	72.448	818.80	65.60	1.29	3093.71	564.26	1.91	4.27
5C1	52	411.959	73.661	818.80	65.60	1.29	3093.71	564.26	1.86	4.26
5C1	53	410.221	89.557	818.80	65.60	1.29	3093.71	564.26	1.86	4.07
5C1	54	435.759	67.041	818.80	65.60	1.29	3093.71	564.26	1.84	4.34
5C1	55	475.701	88.967	818.80	65.60	1.29	3093.71	564.26	1.80	4.08
5C1	56	443.053	77.918	818.80	65.60	1.29	3093.71	564.26	1.83	4.21
5C1	57	184.169	65.733	818.80	65.60	1.29	3145.01	564.26	2.12	4.35
5C1	58	239.803	56.257	818.80	65.60	1.29	3093.71	564.26	2.03	4.46
5C1	59	245.097	58.956	818.80	65.60	1.29	3093.71	564.26	2.02	4.43
5C1	60	212.611	68.326	818.80	65.60	1.29	3093.71	564.26	2.05	4.32
5C1	61	227.394	68.768	818.80	65.60	1.29	3093.71	564.26	2.04	4.32
5C1	62	315.121	68.124	818.80	65.60	1.29	3093.71	564.26	1.95	4.32

Made By KRS 3/29/2012

Checked By ADK 3/29/2012

Job No. P402110046

Calculations For: ***CUY-2-1441*** *Main Truss, As-Inspected Floorbeam Ratings*

Interior Floorbeams

5C1 TRUCK

***Assumed capacities**

Truck	Panel Point Number	Dead Load		Live Load + Centrifugal		Impact	Capacity		Rating Factor - Moment	Rating Factor - Shear
		Moment	Shear	Moment	Shear		Moment	Shear	Operating	Operating
		k-ft	k	k-ft	k		k-ft	k		
5C1	63	318.13	73.392	818.80	65.60	1.29	3093.71	564.26	1.95	4.26
5C1	64	303.024	74.891	818.80	65.60	1.29	3093.71	564.26	1.97	4.24
5C1	65	303.736	80.022	818.80	65.60	1.29	3661.57	430.47	2.38	2.97
5C1	66	305.691	79.439	818.80	65.60	1.29	*3093.71	*564.26	1.96	4.19
5C1	67	307.13	75.334	818.80	65.60	1.29	3093.71	564.26	1.96	4.24
5C1	68	298.144	67.434	818.80	65.60	1.29	3093.71	564.26	1.97	4.33
5C1	69	307.5	72.667	818.80	65.60	1.29	3093.71	564.26	1.96	4.27
5C1	70	291.429	77.885	818.80	65.60	1.29	3093.71	564.26	1.98	4.21
5C1	71	316.286	74.772	818.80	65.60	1.29	3696.86	369.88	2.39	2.48
5C1	72	282.057	74.677	818.80	65.60	1.29	2966.36	564.26	1.89	4.25
5C1	73	269.013	82.04	818.80	65.60	1.29	*3093.71	*564.26	2.00	4.16
5C1	74	280.029	79.857	818.80	65.60	1.29	3093.71	564.26	1.99	4.19
5C1	75	289.422	76.024	818.80	65.60	1.29	3093.71	564.26	1.98	4.23
5C1	76	295.922	68.186	818.80	65.60	1.29	*3093.71	*564.26	1.97	4.32
5C1	77	287.016	81.406	818.80	65.60	1.29	3093.71	564.26	1.98	4.17
5C1	78	289.227	77.43	818.80	65.60	1.29	3093.71	564.26	1.98	4.21
5C1	79	263.727	84.911	818.80	65.60	1.29	3661.57	508.11	2.42	3.62
5C1	80	273.31	79.547	818.80	65.60	1.29	3093.71	564.26	1.99	4.19
5C1	81	294.389	82.777	818.80	65.60	1.29	3093.71	564.26	1.97	4.15
5C1	82	279.124	75.287	818.80	65.60	1.29	3093.71	564.26	1.99	4.24
5C1	83	304.17	65.133	818.80	65.60	1.29	4388.33	399.48	2.91	2.86
5C1	84	308.362	76.007	818.80	65.60	1.29	3093.71	564.26	1.96	4.23
5C1	85	314.514	74.686	818.80	65.60	1.29	3093.71	564.26	1.96	4.25
5C1	86	310.177	73.069	818.80	65.60	1.29	3093.71	564.26	1.96	4.27
5C1	87	312.135	78.05	818.80	65.60	1.29	3526.48	448.64	2.27	3.16
5C1	88	306.188	79.248	818.80	65.60	1.29	3093.71	564.26	1.96	4.19
5C1	89	299.99	78.901	818.80	65.60	1.29	3093.71	564.26	1.97	4.20
5C1	90	301.728	74.591	818.80	65.60	1.29	3093.71	564.26	1.97	4.25
5C1	91	275.901	78.602	818.80	65.60	1.29	3093.71	564.26	1.99	4.20
5C1	92	302.034	75.421	818.80	65.60	1.29	3093.71	564.26	1.97	4.24
5C1	93	278.268	77.087	818.80	65.60	1.29	3093.71	564.26	1.99	4.22
5C1	94	289.01	79.937	818.80	65.60	1.29	*3093.71	*564.26	1.98	4.18
5C1	95	283.747	77.734	818.80	65.60	1.29	3093.71	564.26	1.98	4.21
5C1	96	306.69	69.835	818.80	65.60	1.29	3955.83	374.86	2.59	2.58
5C1	97	272.132	79.237	818.80	65.60	1.29	3093.71	564.26	2.00	4.19
5C1	98	281.544	81.342	818.80	65.60	1.29	3093.71	564.26	1.99	4.17
5C1	99	289.098	67.509	818.80	65.60	1.29	3093.71	564.26	1.98	4.33
5C1	100	259.646	81.139	818.80	65.60	1.29	3093.71	564.26	2.01	4.17
5C1	101	279.23	77.296	818.80	65.60	1.29	3093.71	564.26	1.99	4.22
5C1	102	291.192	76.962	818.80	65.60	1.29	3093.71	564.26	1.98	4.22
5C1	103	274.587	81.753	818.80	65.60	1.29	3093.71	564.26	1.99	4.16
5C1	104	301.793	78.883	818.80	65.60	1.29	3548.74	369.88	2.30	2.43
5C1	105	293.75	75.85	818.80	65.60	1.29	*3093.71	*564.26	1.97	4.23
5C1	106	310.352	77.449	818.80	65.60	1.29	*3093.71	*564.26	1.96	4.21
5C1	107	309.302	75.049	818.80	65.60	1.29	*3093.71	*564.26	1.96	4.24
5C1	108	306.25	73.983	818.80	65.60	1.29	*3093.71	*564.26	1.96	4.25
5C1	109	303.162	78.608	818.80	65.60	1.29	*3093.71	*564.26	1.97	4.20
5C1	110	318.187	75.781	818.80	65.60	1.29	*3093.71	*564.26	1.95	4.23
5C1	111	323.96	87.806	818.80	65.60	1.29	*2970.22	*564.26	1.86	4.09
5C1	112	356.553	77.092	818.80	65.60	1.29	*3093.71	*564.26	1.92	4.22
5C1	113	428.276	70.317	818.80	65.60	1.29	*3093.71	*564.26	1.85	4.30
5C1	114	420.937	97.178	818.80	65.60	1.29	*2960.56	*564.26	1.76	3.98
5C1	115	448.795	86.044	818.80	65.60	1.29	*3093.71	*564.26	1.83	4.11
5C1	116	494.022	85.942	818.80	65.60	1.29	*3093.71	*564.26	1.79	4.11
5C1	117	495.094	76.603	818.80	65.60	1.29	*3093.71	*564.26	1.78	4.22
5C1	118	521.389	78.591	818.80	65.60	1.29	*3093.71	*564.26	1.76	4.20
5C1	119	483.196	103.393	818.80	65.60	1.29	*3093.71	*547.66	1.80	3.76
5C1	120	439.713	100.453	818.80	65.60	1.29	*3093.71	*564.26	1.84	3.94
5C1	121	440.977	83.019	818.80	65.60	1.29	*3093.71	*564.26	1.84	4.15
5C1	122	405.919	70.654	818.80	65.60	1.29	*3093.71	*564.26	1.87	4.29
5C1	123	341.782	69.981	818.80	65.60	1.29	*3093.71	*564.26	1.93	4.30
5C1	124	300.257	72.65	818.80	65.60	1.29	*3093.71	*564.26	1.97	4.27
5C1	125	344.181	70.674	818.80	65.60	1.29	*2998.13	*564.26	1.86	4.29
5C1	126	180.077	40.401	818.80	65.60	1.29	3696.86	369.88	2.52	2.88
									1.76	2.43
									114	104

FLOORBEAM FATIGUE ANALYSIS

FLOORBEAM FATIGUE

→ USE "FATIGUE LLDF. std" STAAD Model IN ORDER TO CALCULATE FLOORBEAM REACTIONS w/ FATIGUE

NORTH TRUSS $P1 = 15.72^k$
$P2 = 11.30^k$
SOUTH TRUSS $P1 = P2 = 13.51^k$

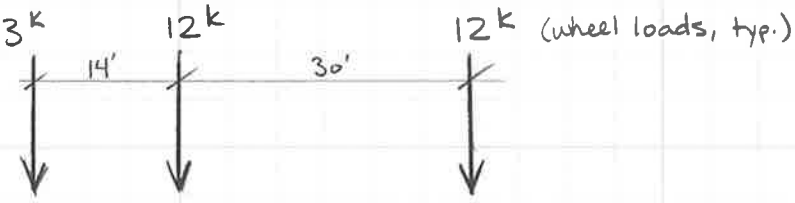
UTILIZE THESE VALUES w/ EQUATIONS FROM "FLOORBEAM LOADS" SECTION IN ORDER TO DETERMINE LOAD EFFECTS IN CANTILEVERS.

FOR INTERIOR FLOORBEAMS, ALL LENGTHS ARE EQUAL, SO DETERMINE WORST CASE MOMENT AND USE GOVERNING SECTION MODULUS FOR REMAINING LIFE CALCULATION.

$$M = 40.94 \times P = 40.94 \times 13.51^k = 553.1^{k\text{-ft}}$$

↑ governing transverse distribution factor for maximum moment

FATIGUE TRUCK:



Calculations for 1/4 US Grid

```
STAAD SPACE
START JOB INFORMATION
ENGINEER DATE 03-Apr-12
END JOB INFORMATION
INPUT WIDTH 79
UNIT FEET KIP
JOINT COORDINATES
1 0 0 0; 2 20 0 0; 3 40 0 0;
MEMBER INCIDENCES
1 1 2; 2 2 3;
DEFINE MATERIAL START
ISOTROPIC STEEL
E 4.176e+006
POISSON 0.3
DENSITY 0.489024
ALPHA 6e-006
DAMP 0.03
END DEFINE MATERIAL
MEMBER PROPERTY AMERICAN
1 2 TABLE ST W24X84
CONSTANTS
MATERIAL STEEL ALL
SUPPORTS
2 PINNED
1 3 FIXED BUT FX MX MY MZ
DEFINE MOVING LOAD

*HS-20
TYPE 1 LOAD 12 12 3
DIST 30 14

*********P1***************
*HS-20 P1
TYPE 2 LOAD 13.96 13.96 3.49
DIST 30 14

**********P2***************
*HS-20 P2
TYPE 3 LOAD 10.04 10.04 2.51
DIST 30 14

***************NORTH TRUSS**********
**HS20 P1
LOAD GENERATION 1000
TYPE 2 -28 0 0 XINC 0.1
*
**HS20 P2
LOAD GENERATION 1000
TYPE 3 -28 0 0 XINC 0.1

**************SOUTH TRUSS**********
*
**HS20 P1 & P2
LOAD GENERATION 1000
TYPE 1 -28 0 0 XINC 0.1

PERFORM ANALYSIS
FINISH
```

As-Built Floorbeam Fatigue Summary

TranSystems

Made By: DWC Date: 4/3/2012 Job No.: P402110046

Checked By: ADK Date: 4/3/2012 Sheet No.:

CUY-2-1441 Main Truss Floorbeams - As-Built Fatigue Summary

Redundant? Yes → f = 2.0 (Calculate MEAN Life per ODOT BDM 402.2.6)

R_s = 1.00

Present ADTT* (T_P) = 160 → T_N = 361 (Future ADTT, assuming growth rate of 1%/year)

Weight Ratios = 1.0 (W_P/W, W_N/W equal to unity per ODOT BDM 402.2.6)

Impact** = 1.15 (Per ODOT BDM 402.2.6)

Y_P = 18 (Present age of the bridge in years)

$Y_{f,MIN}$ = 105 years

* Based on surveyed 2010 ADTT value of 400, multiplied by F_L of 0.4 for 6 lanes of two-way traffic

** Impact is applied in calculation of stress range, Sr. Do not include in service moment range.

Member Type	Panel Point	North / South	Service Moment (kip-ft)	S_x (in^3)	S_r (ksi)	Cat.	K (Detail Constant)	C (cycles per truck passage)	Y_1 (years)	Y_N (years)	Y_f (years)
Interior Floorbeam	U57	---	553.10	1089.68	7.00	B	33	2.00	600	266	**258**
Cantilever Bracket	U0-U42	N	262.18	743.28	4.87	B	33	2.00	1788	792	**784**
Cantilever Bracket	U43	N	262.18	2378.34	1.52	B	33	2.00	58585	25953	**25945**
Cantilever Bracket	U44	N	259.73	787.54	4.55	B	33	2.00	2188	969	**961**
Cantilever Bracket	U45	N	251.05	2378.34	1.46	B	33	2.00	66730	29561	**29553**
Cantilever Bracket	U46	N	237.68	787.54	4.16	B	33	2.00	2855	1265	**1257**
Cantilever Bracket	U47	N	218.40	2378.34	1.27	B	33	2.00	101348	44897	**44889**
Cantilever Bracket	U48	N	197.31	743.28	3.66	B	33	2.00	4195	1858	**1851**
Cantilever Bracket	U49	N	241.65	743.28	4.49	B	33	2.00	2284	1012	**1004**
Cantilever Bracket	U50	N	292.86	2378.34	1.70	B	33	2.00	42036	18622	**18614**
Cantilever Bracket	U51	N	343.10	2478.00	1.91	B	33	2.00	29568	13098	**13090**
Cantilever Bracket	U52	N	383.82	2478.00	2.14	B	33	2.00	21120	9356	**9348**
Cantilever Bracket	U53	N	414.81	1144.62	5.00	B	33	2.00	1649	730	**722**
Cantilever Bracket	U54	N	436.31	2587.83	2.33	B	33	2.00	16375	7254	**7246**
Cantilever Bracket	U55	N	448.33	2587.83	2.39	B	33	2.00	15093	6686	**6678**
Cantilever Bracket	U56	N	451.13	2587.83	2.41	B	33	2.00	14813	6562	**6554**
Cantilever Bracket	U57	N	444.45	880.88	6.96	B	33	2.00	611	271	**263**
Cantilever Bracket	U58	N	428.30	2587.83	2.28	B	33	2.00	17311	7669	**7661**
Cantilever Bracket	U59	N	402.56	2587.83	2.15	B	33	2.00	20849	9236	**9228**
Cantilever Bracket	U60	N	367.32	1144.62	4.43	B	33	2.00	2375	1052	**1044**
Cantilever Bracket	U61	N	322.58	2478.00	1.80	B	33	2.00	35576	15760	**15752**
Cantilever Bracket	U62	N	262.18	2378.34	1.52	B	33	2.00	58582	25952	**25944**
Cantilever Bracket	U63-U109	N	262.18	743.28	4.87	B	33	2.00	1788	792	**784**
Cantilever Bracket	U110	N	262.18	787.54	4.59	B	33	2.00	2127	942	**934**
Cantilever Bracket	U111	N	308.55	1286.89	3.31	B	33	2.00	5694	2522	**2514**
Cantilever Bracket	U112	N	351.28	1286.89	3.77	B	33	2.00	3858	1709	**1701**
Cantilever Bracket	U113	N	393.34	1286.89	4.22	B	33	2.00	2748	1218	**1210**
Cantilever Bracket	U114	N	435.39	1286.89	4.67	B	33	2.00	2026	898	**890**
Cantilever Bracket	U115	N	477.52	1286.89	5.12	B	33	2.00	1536	680	**672**
Cantilever Bracket	U116	N	518.46	1286.89	5.56	B	33	2.00	1200	532	**524**
Cantilever Bracket	U117	N	549.45	1286.89	5.89	B	33	2.00	1008	447	**439**
Cantilever Bracket	U118	N	559.61	1286.89	6.00	B	33	2.00	954	423	**415**
Cantilever Bracket	U119	N	548.94	1289.90	5.87	B	33	2.00	1018	451	**443**
Cantilever Bracket	U120	N	517.76	1286.89	5.55	B	33	2.00	1205	534	**526**
Cantilever Bracket	U121	N	475.59	1286.89	5.10	B	33	2.00	1555	689	**681**
Cantilever Bracket	U122	N	417.98	1286.89	4.48	B	33	2.00	2290	1015	**1007**
Cantilever Bracket	U123	N	343.97	1286.89	3.69	B	33	2.00	4110	1821	**1813**
Cantilever Bracket	U124	N	254.41	1286.89	2.73	B	33	2.00	10157	4499	**4491**
Cantilever Bracket	U125	N	186.51	2378.34	1.08	B	33	2.00	162724	72086	**72078**
Cantilever Bracket	U126	N	84.39	787.54	1.48	B	33	2.00	63790	28259	**28251**

As-Built Floorbeam Fatigue Summary

TranSystems

Made By: DWC Date: 4/3/2012 Job No.: P402110046

Checked By: ADK Date: 4/3/2012 Sheet No.:

CUY-2-1441 Main Truss Floorbeams - As-Built Fatigue Summary

Redundant? Yes → f = 2.0 (Calculate MEAN Life per ODOT BDM 402.2.6)

R_s = 1.00

Present ADTT* (T_P) = 160 → T_N = 361 (Future ADTT, assuming growth rate of 1%/year)

Weight Ratios = 1.0 (W_P/W, W_N/W equal to unity per ODOT BDM 402.2.6)

Impact** = 1.15 (Per ODOT BDM 402.2.6)

Y_P = 18 (Present age of the bridge in years)

$Y_{f,MIN}$ = 105 years

* Based on surveyed 2010 ADTT value of 400, multiplied by F_L of 0.4 for 6 lanes of two-way traffic

** Impact is applied in calculation of stress range, Sr. Do not include in service moment range.

Member Type	Panel Point	North / South	Service Moment (kip-ft)	S_x (in^3)	S_r (ksi)	Cat.	K (Detail Constant)	C (cycles per truck passage)	Y_1 (years)	Y_N (years)	Y_f (years)
Cantilever Bracket	U0-U42	S	251.18	743.28	4.66	B	33	2.00	2034	901	**893**
Cantilever Bracket	U43	S	251.18	2378.34	1.46	B	33	2.00	66621	29513	**29505**
Cantilever Bracket	U44	S	251.18	2378.34	1.46	B	33	2.00	66621	29513	**29505**
Cantilever Bracket	U45	S	262.79	787.54	4.60	B	33	2.00	2112	936	**928**
Cantilever Bracket	U46	S	283.69	2478.00	1.58	B	33	2.00	52304	23171	**23163**
Cantilever Bracket	U47	S	314.08	2478.00	1.75	B	33	2.00	38541	17074	**17066**
Cantilever Bracket	U48	S	349.82	743.28	6.49	B	33	2.00	753	333	**326**
Cantilever Bracket	U49	S	317.11	2378.34	1.84	B	33	2.00	33109	14667	**14659**
Cantilever Bracket	U50	S	249.01	787.54	4.36	B	33	2.00	2483	1100	**1092**
Cantilever Bracket	U51	S	207.99	787.54	3.64	B	33	2.00	4260	1887	**1879**
Cantilever Bracket	U52	S	175.24	743.28	3.25	B	33	2.00	5988	2653	**2645**
Cantilever Bracket	U53	S	154.65	787.54	2.71	B	33	2.00	10363	4591	**4583**
Cantilever Bracket	U54	S	140.35	787.54	2.46	B	33	2.00	13866	6143	**6135**
Cantilever Bracket	U55	S	132.32	787.54	2.32	B	33	2.00	16545	7329	**7321**
Cantilever Bracket	U56	S	130.55	787.54	2.29	B	33	2.00	17228	7632	**7624**
Cantilever Bracket	U57	S	135.05	880.88	2.12	B	33	2.00	21777	9647	**9639**
Cantilever Bracket	U58	S	145.83	2378.34	0.85	B	33	2.00	340420	150805	**150797**
Cantilever Bracket	U59	S	163.71	787.54	2.87	B	33	2.00	8737	3870	**3862**
Cantilever Bracket	U60	S	187.88	787.54	3.29	B	33	2.00	5780	2561	**2553**
Cantilever Bracket	U61	S	218.35	787.54	3.83	B	33	2.00	3682	1631	**1623**
Cantilever Bracket	U62	S	248.65	787.54	4.36	B	33	2.00	2493	1105	**1097**
Cantilever Bracket	U63-U109	S	248.65	743.28	4.62	B	33	2.00	2096	929	**921**
Cantilever Bracket	U110	S	248.65	787.54	4.36	B	33	2.00	2493	1105	**1097**
Cantilever Bracket	U111	S	222.88	880.88	3.49	B	33	2.00	4845	2146	**2138**
Cantilever Bracket	U112	S	197.05	787.54	3.45	B	33	2.00	5010	2219	**2211**
Cantilever Bracket	U113	S	171.22	787.54	3.00	B	33	2.00	7636	3383	**3375**
Cantilever Bracket	U114	S	145.40	880.88	2.28	B	33	2.00	17451	7731	**7723**
Cantilever Bracket	U115	S	119.57	787.54	2.10	B	33	2.00	22422	9933	**9925**
Cantilever Bracket	U116	S	93.75	743.28	1.74	B	33	2.00	39115	17328	**17320**
Cantilever Bracket	U117	S	79.87	743.28	1.48	B	33	2.00	63246	28018	**28010**
Cantilever Bracket	U118	S	77.62	743.28	1.44	B	33	2.00	68908	30526	**30518**
Cantilever Bracket	U119	S	80.93	856.73	1.30	B	33	2.00	93109	41247	**41239**
Cantilever Bracket	U120	S	98.81	743.28	1.83	B	33	2.00	33402	14797	**14789**
Cantilever Bracket	U121	S	128.08	743.28	2.38	B	33	2.00	15337	6794	**6786**
Cantilever Bracket	U122	S	157.35	743.28	2.92	B	33	2.00	8272	3664	**3656**
Cantilever Bracket	U123	S	220.82	743.28	4.10	B	33	2.00	2993	1326	**1318**
Cantilever Bracket	U124	S	304.84	743.28	5.66	B	33	2.00	1138	504	**496**
Cantilever Bracket	U125	S	400.04	743.28	7.43	B	33	2.00	503	223	**215**
Cantilever Bracket	U126	S	531.37	787.54	9.31	B	33	2.00	255	113	**105**

As-Inspected Floorbeam Fatigue Summary

Made By: DWC Date: 4/3/2012 Job No.: P402110046
Checked By: ADK Date: 4/3/2012 Sheet No.:

CUY-2-1441 Main Truss Floorbeams - As-Inspected Fatigue Summary

Redundant? Yes → f = 2.0 (Calculate MEAN Life per ODOT BDM 402.2.6)
R_S = 1.00
Present ADTT* (T_P) = 160 → T_N = 361 (Future ADTT, assuming growth rate of 1%/year)
Weight Ratios = 1.0 (W_P/W, W_N/W equal to unity per ODOT BDM 402.2.6)
Impact** = 1.15 (Per ODOT BDM 402.2.6)
Y_P = 18 (Present age of the bridge in years)

$Y_{f,MIN}$ = 105 years

* Based on surveyed 2010 ADTT value of 400, multiplied by F_L of 0.4 for 6 lanes of two-way traffic
** Impact is applied in calculation of stress range, Sr. Do not include in service moment range.
*** Section modulus in ***red*** indicates member with as-inspected losses in the moment region

Member Type	Panel Point	North / South	Service Moment (kip-ft)	S_x (in^3) ***	S_r (ksi)	Cat.	K (Detail Constant)	C (cycles per truck passage)	Y_1 (years)	Y_N (years)	Y_f (years)
Interior Floorbeam	U13	---	553.10	***1214.75***	6.28	B	33	2.00	831	368	**360**
Interior Floorbeam	U23	---	553.10	1331.48	5.73	B	33	2.00	1095	485	**477**
Interior Floorbeam	U57	---	553.10	***1143.64***	6.67	B	33	2.00	694	307	**299**
Interior Floorbeam	U65	---	553.10	1331.48	5.73	B	33	2.00	1095	485	**477**
Interior Floorbeam	U72	---	553.10	***1078.68***	7.08	B	33	2.00	582	258	**250**
Interior Floorbeam	U87	---	553.10	***1282.36***	5.95	B	33	2.00	978	433	**425**
Interior Floorbeam	U104	---	553.10	***1182.91***	6.45	B	33	2.00	768	340	**332**
Interior Floorbeam	U111	---	553.10	***1080.08***	7.07	B	33	2.00	584	259	**251**
Interior Floorbeam	U114	---	553.10	***1076.57***	7.09	B	33	2.00	579	256	**248**
Interior Floorbeam	U119	---	553.10	1124.99	6.78	B	33	2.00	660	293	**285**
Interior Floorbeam	U125	---	553.10	***1090.23***	7.00	B	33	2.00	601	266	**258**

As-Inspected Floorbeam Fatigue Summary

TranSystems

Made By: DWC Date: 4/3/2012 Job No.: P402110046

Checked By: ADK Date: 4/3/2012 Sheet No.:

CUY-2-1441 Main Truss Floorbeams - As-Inspected Fatigue Summary

Redundant? Yes → f = 2.0 (Calculate MEAN Life per ODOT BDM 402.2.6)

R_s = 1.00

Present ADTT* (T_P) = 160 → T_N = 361 (Future ADTT, assuming growth rate of 1%/year)

Weight Ratios = 1.0 (W_P/W, W_N/W equal to unity per ODOT BDM 402.2.6)

Impact** = 1.15 (Per ODOT BDM 402.2.6)

Y_P = 18 (Present age of the bridge in years)

$Y_{f,MIN}$ = 105 years

* Based on surveyed 2010 ADTT value of 400, multiplied by F_L of 0.4 for 6 lanes of two-way traffic

** Impact is applied in calculation of stress range, Sr. Do not include in service moment range.

*** Section modulus in ***red*** indicates member with as-inspected losses

Member Type	Panel Point	North / South	Service Moment (kip-ft)	S_x (in^3) ***	S_r (ksi)	Cat.	K (Detail Constant)	C (cycles per truck passage)	Y_1 (years)	Y_N (years)	Y_f (years)
Cantilever Bracket	U0-U42	N	262.18	743.28	4.87	B	33	2.00	1788	792	**784**
Cantilever Bracket	U43	N	262.18	2378.34	1.52	B	33	2.00	58585	25953	**25945**
Cantilever Bracket	U44	N	259.73	787.54	4.55	B	33	2.00	2188	969	**961**
Cantilever Bracket	U45	N	251.05	2378.34	1.46	B	33	2.00	66730	29561	**29553**
Cantilever Bracket	U46	N	237.68	787.54	4.16	B	33	2.00	2855	1265	**1257**
Cantilever Bracket	U47	N	218.40	2378.34	1.27	B	33	2.00	101348	44897	**44889**
Cantilever Bracket	U48	N	197.31	743.28	3.66	B	33	2.00	4195	1858	**1851**
Cantilever Bracket	U49	N	241.65	743.28	4.49	B	33	2.00	2284	1012	**1004**
Cantilever Bracket	U50	N	292.86	2378.34	1.70	B	33	2.00	42036	18622	**18614**
Cantilever Bracket	U51	N	343.10	2478.00	1.91	B	33	2.00	29568	13098	**13090**
Cantilever Bracket	U52	N	383.82	2478.00	2.14	B	33	2.00	21120	9356	**9348**
Cantilever Bracket	U53	N	414.81	1144.62	5.00	B	33	2.00	1649	730	**722**
Cantilever Bracket	U54	N	436.31	2587.83	2.33	B	33	2.00	16375	7254	**7246**
Cantilever Bracket	U55	N	448.33	2587.83	2.39	B	33	2.00	15093	6686	**6678**
Cantilever Bracket	U56	N	451.13	2587.83	2.41	B	33	2.00	14813	6562	**6554**
Cantilever Bracket	U57	N	444.45	880.88	6.96	B	33	2.00	611	271	**263**
Cantilever Bracket	U58	N	428.30	2587.83	2.28	B	33	2.00	17311	7669	**7661**
Cantilever Bracket	U59	N	402.56	2587.83	2.15	B	33	2.00	20849	9236	**9228**
Cantilever Bracket	U60	N	367.32	1144.62	4.43	B	33	2.00	2375	1052	**1044**
Cantilever Bracket	U61	N	322.58	2478.00	1.80	B	33	2.00	35576	15760	**15752**
Cantilever Bracket	U62	N	262.18	2378.34	1.52	B	33	2.00	58582	25952	**25944**
Cantilever Bracket	U63-U109	N	262.18	743.28	4.87	B	33	2.00	1788	792	**784**
Cantilever Bracket	U110	N	262.18	787.54	4.59	B	33	2.00	2127	942	**934**
Cantilever Bracket	U111	N	308.55	1286.89	3.31	B	33	2.00	5694	2522	**2514**
Cantilever Bracket	U112	N	351.28	1286.89	3.77	B	33	2.00	3858	1709	**1701**
Cantilever Bracket	U113	N	393.34	1286.89	4.22	B	33	2.00	2748	1218	**1210**
Cantilever Bracket	U114	N	435.39	1286.89	4.67	B	33	2.00	2026	898	**890**
Cantilever Bracket	U115	N	477.52	1286.89	5.12	B	33	2.00	1536	680	**672**
Cantilever Bracket	U116	N	518.46	1286.89	5.56	B	33	2.00	1200	532	**524**
Cantilever Bracket	U117	N	549.45	1286.89	5.89	B	33	2.00	1008	447	**439**
Cantilever Bracket	U118	N	559.61	1286.89	6.00	B	33	2.00	954	423	**415**
Cantilever Bracket	U119	N	548.94	1289.90	5.87	B	33	2.00	1018	451	**443**
Cantilever Bracket	U120	N	517.76	1286.89	5.55	B	33	2.00	1205	534	**526**
Cantilever Bracket	U121	N	475.59	***1289.18***	5.09	B	33	2.00	1563	692	**685**
Cantilever Bracket	U122	N	417.98	***1286.78***	4.48	B	33	2.00	2290	1014	**1006**
Cantilever Bracket	U123	N	343.97	1286.89	3.69	B	33	2.00	4110	1821	**1813**
Cantilever Bracket	U124	N	254.41	1286.89	2.73	B	33	2.00	10157	4499	**4491**
Cantilever Bracket	U125	N	186.51	2378.34	1.08	B	33	2.00	162724	72086	**72078**
Cantilever Bracket	U126	N	84.39	787.54	1.48	B	33	2.00	63790	28259	**28251**

As-Inspected Floorbeam Fatigue Summary

TranSystems

Made By: DWC Date: 4/3/2012 Job No.: P402110046

Checked By: ADK Date: 4/3/2012 Sheet No.:

CUY-2-1441 Main Truss Floorbeams - As-Inspected Fatigue Summary

Redundant? Yes → f = 2.0 (Calculate MEAN Life per ODOT BDM 402.2.6)

R_s = 1.00

Present ADTT* (T_P) = 160 → T_N = 361 (Future ADTT, assuming growth rate of 1%/year)

Weight Ratios = 1.0 (W_P/W, W_N/W equal to unity per ODOT BDM 402.2.6)

Impact** = 1.15 (Per ODOT BDM 402.2.6)

Y_P = 18 (Present age of the bridge in years)

$Y_{f,MIN}$ = 105 years

* Based on surveyed 2010 ADTT value of 400, multiplied by F_L of 0.4 for 6 lanes of two-way traffic

** Impact is applied in calculation of stress range, Sr. Do not include in service moment range.

*** Section modulus in ***red*** indicates member with as-inspected losses

Member Type	Panel Point	North / South	Service Moment (kip-ft)	S_x (in^3) ***	S_r (ksi)	Cat.	K (Detail Constant)	C (cycles per truck passage)	Y_1 (years)	Y_N (years)	Y_f (years)
Cantilever Bracket	U0-U42	S	251.18	743.28	4.66	B	33	2.00	2034	901	**893**
Cantilever Bracket	U43	S	251.18	2378.34	1.46	B	33	2.00	66621	29513	**29505**
Cantilever Bracket	U44	S	251.18	2378.34	1.46	B	33	2.00	66621	29513	**29505**
Cantilever Bracket	U45	S	262.79	787.54	4.60	B	33	2.00	2112	936	**928**
Cantilever Bracket	U46	S	283.69	2478.00	1.58	B	33	2.00	52304	23171	**23163**
Cantilever Bracket	U47	S	314.08	2478.00	1.75	B	33	2.00	38541	17074	**17066**
Cantilever Bracket	U48	S	349.82	743.28	6.49	B	33	2.00	753	333	**326**
Cantilever Bracket	U49	S	317.11	2378.34	1.84	B	33	2.00	33109	14667	**14659**
Cantilever Bracket	U50	S	249.01	787.54	4.36	B	33	2.00	2483	1100	**1092**
Cantilever Bracket	U51	S	207.99	787.54	3.64	B	33	2.00	4260	1887	**1879**
Cantilever Bracket	U52	S	175.24	743.28	3.25	B	33	2.00	5988	2653	**2645**
Cantilever Bracket	U53	S	154.65	787.54	2.71	B	33	2.00	10363	4591	**4583**
Cantilever Bracket	U54	S	140.35	787.54	2.46	B	33	2.00	13866	6143	**6135**
Cantilever Bracket	U55	S	132.32	787.54	2.32	B	33	2.00	16545	7329	**7321**
Cantilever Bracket	U56	S	130.55	787.54	2.29	B	33	2.00	17228	7632	**7624**
Cantilever Bracket	U57	S	135.05	880.88	2.12	B	33	2.00	21777	9647	**9639**
Cantilever Bracket	U58	S	145.83	2378.34	0.85	B	33	2.00	340420	150805	**150797**
Cantilever Bracket	U59	S	163.71	787.54	2.87	B	33	2.00	8737	3870	**3862**
Cantilever Bracket	U60	S	187.88	787.54	3.29	B	33	2.00	5780	2561	**2553**
Cantilever Bracket	U61	S	218.35	787.54	3.83	B	33	2.00	3682	1631	**1623**
Cantilever Bracket	U62	S	248.65	787.54	4.36	B	33	2.00	2493	1105	**1097**
Cantilever Bracket	U63-U109	S	248.65	743.28	4.62	B	33	2.00	2096	929	**921**
Cantilever Bracket	U110	S	248.65	787.54	4.36	B	33	2.00	2493	1105	**1097**
Cantilever Bracket	U111	S	222.88	880.88	3.49	B	33	2.00	4845	2146	**2138**
Cantilever Bracket	U112	S	197.05	787.54	3.45	B	33	2.00	5010	2219	**2211**
Cantilever Bracket	U113	S	171.22	787.54	3.00	B	33	2.00	7636	3383	**3375**
Cantilever Bracket	U114	S	145.40	880.88	2.28	B	33	2.00	17451	7731	**7723**
Cantilever Bracket	U115	S	119.57	787.54	2.10	B	33	2.00	22422	9933	**9925**
Cantilever Bracket	U116	S	93.75	743.28	1.74	B	33	2.00	39115	17328	**17320**
Cantilever Bracket	U117	S	79.87	743.28	1.48	B	33	2.00	63246	28018	**28010**
Cantilever Bracket	U118	S	77.62	743.28	1.44	B	33	2.00	68908	30526	**30518**
Cantilever Bracket	U119	S	80.93	856.73	1.30	B	33	2.00	93109	41247	**41239**
Cantilever Bracket	U120	S	98.81	743.28	1.83	B	33	2.00	33402	14797	**14789**
Cantilever Bracket	U121	S	128.08	743.28	2.38	B	33	2.00	15337	6794	**6786**
Cantilever Bracket	U122	S	157.35	743.28	2.92	B	33	2.00	8272	3664	**3656**
Cantilever Bracket	U123	S	220.82	743.28	4.10	B	33	2.00	2993	1326	**1318**
Cantilever Bracket	U124	S	304.84	743.28	5.66	B	33	2.00	1138	504	**496**
Cantilever Bracket	U125	S	400.04	743.28	7.43	B	33	2.00	503	223	**215**
Cantilever Bracket	U126	S	531.37	787.54	9.31	B	33	2.00	255	113	**105**

DECK LOAD RATING

Deck Main Span

Material Properties: Concrete $f'_c = 4500$ psi
$w_c = 113$ psf
Rebar $f'_s = 24$ ksi
$f_y = 60$ ksi

Deck Geometry:

Beam Spacing = 7.9' → b/w FB 123-124

Stringer = Use W16x67 (flange $b_f = 10.2"$)

Effective Span Length = $7.9 - \frac{1}{2}\left(\frac{10.2}{12}\right) = 7.48'$

Deck Thickness = 6.75" (Lightweight) + 1.25" (Latex Concrete)
↑ wearing surface

Rebar Cover = Top = 3" − 1.25" = 1.75" Clear
Bot. = 1" Clear

Transverse Rebar = Top → #6 @ 8"
Bot. → #5 @ 8"

Dead Load:

Slab = $\frac{6.75"}{12} \times 1' \times .113^{kcf} = .064^{k/ft}$

WS = $\frac{1.25"}{12} \times 1' \times .15^{kcf} = .016^{k/ft}$

$q_{DL} = .08$ k/ft

$M_{DL} = \frac{1}{8}(.08)(7.48)^2 \times .8 = 0.448$ k-ft
↑ continuity factor per AASHTO 3.24.3.1

Live Loads:

$M = \left(\frac{S+2}{32}\right) P(1+I) \times .8$

	P	M
HS20	16k	4.93 k-ft
2F1	10k	3.08 k-ft
3F1	8.5k	2.62 k-ft
4F1	7.0k	2.16 k-ft
5C1	8.5k	2.62 k-ft

Calculations for 1/8 US Grid

Deck Main Span

Moment Capacity:

$$\beta = 1.05 - \frac{.05\, f'_c}{1000} = 1.05 - .05\left(\frac{4500}{1000}\right) = 0.825$$
(AASHTO 8.16.2.7)

Check Reinforcement Ratio:

$$\rho_b = \frac{0.85\beta_1 f'_c}{f_y}\left(\frac{87000}{87000+f_y}\right) = \frac{0.85(.825)4.5}{60}\left(\frac{87}{87+60}\right)$$
$$= 0.0311 \quad (\text{AASHTO } 8.16.3.1.1) \rightarrow .75\rho_b = \underline{0.0233}$$

Top: $A_s = 0.44\ in^2 \times \frac{12''}{8''} = 0.66\ in^2/ft$

$d_t = 6.75'' - 1.75'' - 4''\text{Ø}/8 - 0.75''/2 = 4.125''$

$$\rho_1 = \frac{A_s}{b d_t} = \frac{.66}{12(4.125)} = 0.0133 < .0233 \quad \checkmark$$

Bot.: $A_s = 0.31\ in^2 \times \frac{12''}{8''} = 0.465\ in^2/ft$

$d_t = 6.75\ in - 1\ in - 0.625''/2 = 5.438''$

$$\rho_2 = \frac{A_s}{b d_t} = \frac{0.465}{12 \times 5.438} = 0.0071 < .0233 \quad \checkmark$$

Neg. Moment:

$$a = \frac{A_s f_y}{.85 f'_c b} = \frac{0.66 \times 60}{.85(4.5)12} = 0.863''$$

$$\text{Ø}M_n = .9(.66)(60)\left(4.125 - \frac{.863}{2}\right)\left(\frac{1}{12}\right) = \underline{10.97\ K\text{-}ft}$$

Pos. Moment:

$$a = \frac{0.465(60)}{.85(4.5)12} = .608''$$

$$\text{Ø}M_n = .9(.465)(60)\left(5.438 - \frac{.608}{2}\right)\left(\frac{1}{12}\right) = \underline{10.74\ K\text{-}ft}$$

↑ Controls

Deck Man Span

Rating Factors:

Controlling moment capacity → 10.74 K-ft

HS-20 Inventory: $RF = \frac{C - 1.3D}{2.17(L+I)}$

$= \frac{10.74 - 1.3(0.448)}{2.17(4.93)} = 0.95$

Operating: $RF = \frac{C - 1.3D}{1.3(L+I)}$

$= \frac{10.74 - 1.3(0.448)}{1.3(4.93)} = 1.58$

	RF
2F1	2.54
3F1	2.98
4F1	3.62
5C1	2.98

Calculations for 1/8 US Grid