

.....*.....1.....*.....2.....*.....3.....*.....4.....*.....5.....*.....6.....*.....7.....*.....8

*** DATA REQUESTED FOR 3002438

02300243	DIST 5	DLMCO		112	68	0112		003900	03	HS20	0100
05300243	3002438	EGUE 77	00.00	584510	APERTUR		110504	LFEDERAL	IR	77	0200
063002431	GUE-77-0111	R OVER	SENECA	FORK	CREEK;	CF=2000(57)	LOADING;				0300
063002432	REF. TO	STD. DWG.	CS-2-65	DATED	6-1-65;	PROJ. NO.	591(65);				0400
063002433	MAINTAIN	& INSP.	BY ODOT;	CONTINUOUS	18.50"	CONCRETE	SLAB;				0500
063002434	SPANS:	34.00'-	42.50'-	34.00'	C/C	BRGS.;	NO SKEW;	SFN	3002438;		0600
063002435	1.75"	SUPERPLASTICIZED	DENSE	CONC.	WS;	UPDATED	BY SAHCO	5-4-2011			0700
08300243S01	03	34	4206	34	RC	.1656					0800
10300243S01	01		W 50.0		34						0900
10300243S01	02		W 50.0		4206						1000
10300243S01	03		W 50.0		34						1100
11300243S01	0101	2907	01								1200
11300243S01	0102	405	02								1300
11300243S01	0201	405	02								1400
11300243S01	0202	3308	01								1500
11300243S01	0203	405	02								1600
11300243S01	0301	405	02								1700
11300243S01	0302	2907	01								1800
13300243S01	01	18.50		12.0	01	0.22002.375					1900
13300243S01	01				02	2.25816.615					2000
13300243S01	02	18.50		12.0	01	2.54002.635					2100
13300243S01	02				02	1.12816.615					2200

.....*.....1.....*.....2.....*.....3.....*.....4.....*.....5.....*.....6.....*.....7.....*.....8

TOTAL NUMBER OF STRUCTURES LISTED = 00001

MAIN -- NEW STRUCTURE I.D.= 300-243

SRATE1 -- MEMBER I.D.= S 1

THE FOLLOWING STRUCTURES WERE SELECTED

300243

IFY151I VDIOS : 9000 RECORDS OF LENGTH 1200 FORMATTED ON FILE FT11F001.

RECORD										REC.NO.
01	050411TRANSFER		HS20HS20	2F1	3F1	4F1	*LFS	POST		
01	050411TRANSFER		HS20HS20	2F1	3F1	4F1	*LFS	POST		100
03	1 2F10210.0	10	20.0							200
03	1 3F10312.0	10	17.0	4	17.0					300
03	1 4F10412.0	10	14.0	4	14.0	4	14.0			400
03	1SPEC0512.0	12	17.0	4	17.0	31	17.0	4		500
03	2SPEC 17.0									600
02300243	DIST 5 DLMCO			112	68	0112		003900	03 HS20	100
05300243	3002438EGUE 77	00.00		584510APERTUR				110504LFEDERAL	IR 77	200
063002431	GUE-77-0111 R OVER SENECA FORK CREEK; CF=2000(57) LOADING;									300
063002432	REF. TO STD. DWG. CS-2-65 DATED 6-1-65; PROJ. NO. 591(65);									400
063002433	MAINTAIN & INSP. BY ODOT; CONTINUOUS 18.50" CONCRETE SLAB;									500
063002434	SPANS: 34.00'-42.50'-34.00' C/C BRGS.; NO SKEW; SFN 3002438;									600
063002435	1.75" SUPERPLASTICIZED DENSE CONC. WS; UPDATED BY SAHCO 5-4-2011									700
08300243S01	03	34	4206	34	RC		.1656			800
10300243S01	01		W 50.0		34					900
10300243S01	02		W 50.0		4206					1000
10300243S01	03		W 50.0		34					1100
11300243S01	0101	2907	01							1200
11300243S01	0102	405	02							1300
11300243S01	0201	405	02							1400
11300243S01	0202	3308	01							1500
11300243S01	0203	405	02							1600
11300243S01	0301	405	02							1700
11300243S01	0302	2907	01							1800
13300243S01	01	18.50	12.0	01	0.22002.375					1900
13300243S01	01			02	2.25816.615					2000
13300243S01	02	18.50	12.0	01	2.54002.635					2100
13300243S01	02			02	1.12816.615					2200

STRUCTURE I.D. = 300-243

* STRUCTURE HEADER AND DESCRIPTION *

100-- 2 DIST 5 DLMCO EA/I/O/P = FILE REQUESTS AND OUTPUT DATA EXCEPTIONS
TYPE = 112 YEAR = 68 LEN = 112.00 FT. WIDTH = 39.00 FT. 3 SPANS SP.LOAD =
INV.LL.TRK.= HS20 OP.LL.TRK.=

* STRUCTURE LOCATION AND PERMANENT IDENTIFICATION FACTORS *

200-- 5 BRIDGE= 3002438 DIST./CO.= E GUE CONST. ROUTE = 77 CONST. SECT.= 00.00 CONST. STA.= 58+45.10
MICROFILM REEL NO. DESIGN PLANS=APERTUR COMPUTATIONS= CORRESPONDENCE=110504L
ROUTE I.D.= FEDERAL MARKED ROUTE = IR 77

* COMMENTS *

300-- 6 1 GUE-77-0111 R OVER SENECA FORK CREEK; CF=2000(57) LOADING;
400-- 6 2 REF. TO STD. DWG. CS-2-65 DATED 6-1-65; PROJ. NO. 591(65);
500-- 6 3 MAINTAIN & INSP. BY ODOT; CONTINUOUS 18.50" CONCRETE SLAB;
600-- 6 4 SPANS: 34.00'-42.50'-34.00' C/C BRGS.; NO SKEW; SFN 3002438;
700-- 6 5 1.75" SUPERPLASTICIZED DENSE CONC. WS; UPDATED BY SAHCO 5-4-2011

* MEMBER SPECIFICATIONS AND REQUIRED ANALYSIS-GIRDER, STRINGER AND FLOOR BEAM *

MEMBER ID	SPANS SYMM CODE	STIFF. (SPAN 4)	SPAN 1 (SPAN 4)	SPAN 2 (SPAN 5)	SPAN 3 (SPAN 6)	MATL CODE	ALLOWABLE STRESS FY	LL DIST. FACTOR	END THRU FL.BM DECK	MAX INV	IMPACT OP.	FACTOR POST	REQUIRED SPEC
800-- 8	S 1	3	34.000	42.500	34.000	RC	0.00	0.00	0.166	.00	.00	.00	.00

* SUPERIMPOSED DEAD LOADS-GIRDERS, STRINGERS AND FLOOR BEAMS *

MEMBER ID	SYMM.	SPAN NO.	DISTANCE FR. LEFT SUPP.	LOAD TYPE	LOAD P OR W(L)	LOAD W(R)	LENGTH
900--10	S 1	1	0.000FT.	W	50.0	0.0	34.000FT.

1000--10	S 1	2	0.000FT.	W	50.0	0.0	42.500FT.
1100--10	S 1	3	0.000FT.	W	50.0	0.0	34.000FT.

 * SECTION RANGE SPECIFICATIONS *

MEMBER ID	SYMM.	SPAN NO.	RANGE NO.	RANGE LENGTH	SECTION NO. LEFT	SECTION NO. RIGHT	SEC. VAR.	HINGE CODE	HINGE 1 DIST.	HINGE 2 DIST.	HYBRID CODE	GIRDER FY	GIRDER CODE	FY
1200--11	S 1	1	1	29.583FT.	1	0			0.000FT.	0.000FT.		0.		0.
1300--11	S 1	1	2	4.417FT.	2	0			0.000FT.	0.000FT.		0.		0.
1400--11	S 1	2	1	4.417FT.	2	0			0.000FT.	0.000FT.		0.		0.
1500--11	S 1	2	2	33.667FT.	1	0			0.000FT.	0.000FT.		0.		0.
1600--11	S 1	2	3	4.417FT.	2	0			0.000FT.	0.000FT.		0.		0.
1700--11	S 1	3	1	4.417FT.	2	0			0.000FT.	0.000FT.		0.		0.
1800--11	S 1	3	2	29.583FT.	1	0			0.000FT.	0.000FT.		0.		0.

 * SECTION PROPERTIES (REINFORCED CONCRETE) - GIRDERS, STRINGERS, FLOOR BEAMS *

MEMBER ID	SECT. NO.	SAME AS	BFL ADR	H	A	B	B*	T	I	AS R	D	COMP CODE
1900--13	S 1	1	0	18.50	0.00	0.00	12.00	0.00	1	0.22	2.38	
2000--13	S 1	1	0	0.00	0.00	0.00	0.00	0.00	2	2.26	16.62	
2100--13	S 1	2	0	18.50	0.00	0.00	12.00	0.00	1	2.54	2.64	
2200--13	S 1	2	0	0.00	0.00	0.00	0.00	0.00	2	1.13	16.62	

SUMMARY OF RATING CALCULATIONS-----STRUCTURE MEMBER S 1 BARS RELEASE 5.5
 INVENTORY AND/OR OPERATING ANALYSIS

INPUT CODING -- STRUCTURE 3002438 D/P STR. I.D.-- 300-243

DATE 5/ 4/11

INVENTORY		OPERATING	
LIVE LOAD	RATING	LIVE LOAD	RATING
HS20	HS 21.23	HS20	HS 35.39

BY DIST 5 DLMCO

STRUCTURE DESCRIPTION --	LOCATION --	MICROFILM REEL NUMBERS --
IDENTIFICATION 3002438	DISTRICT E	DESIGN PLANS
TYPE 112	COUNTY GUE	COMPUTATIONS
YEAR OF CONSTR. 1968	CONSTR. RTE. 77	CORRESPONDENCE 110504L
LENGTH 112.00 FEET	CONSTR. SEC. 00.00	
ROADWAY WIDTH 39.00 FEET	CONSTR. STA. 58+45.10	
NUMBER OF SPANS 3	KEY RTE. FEDERAL	
	MARKED RTE. IR 77	

ANALYST REMARKS --

GUE-77-0111 R OVER SENECA FORK CREEK; CF=2000(57) LOADING;
 REF. TO STD. DWG. CS-2-65 DATED 6-1-65; PROJ. NO. 591(65);
 MAINTAIN & INSP. BY ODOT; CONTINUOUS 18.50" CONCRETE SLAB;
 SPANS: 34.00'-42.50'-34.00' C/C BRGS.; NO SKEW; SFN 3002438;
 1.75" SUPERPLASTICIZED DENSE CONC. WS; UPDATED BY SAHCO 5-4-2011

INVENTORY RATING SUMMARY --

MEMBER ID. S 1
 SPAN 3
 CRITICAL C.P. DIST. 0.0 FEET
 LIVE LOAD DESIGNATION HS20

OPERATING RATING SUMMARY --

MEMBER ID. S 1
 SPAN 3
 CRITICAL C.P. DIST. 0.0 FEET
 LIVE LOAD DESIGNATION HS20

SHEAR

(KIPS)

MEMBER CAPACITY -111.4

DL EFFECT -41.7

CAPACITY FOR (LL+I) -26.4

ACTUAL (LL+I) -24.9

INVENTORY RATING HS 21.23

SHEAR

(KIPS)

MEMBER CAPACITY -111.4

DL EFFECT -41.7

CAPACITY FOR (LL+I) -44.0

ACTUAL (LL+I) -24.9

OPERATING RATING HS 35.39

SUMMARY OF RATING CALCULATIONS-----STRUCTURE MEMBER S 1 BARS RELEASE 5.5
 POSTING ANALYSIS

INPUT CODING -- STRUCTURE 3002438 D/P STR. I.D.-- 300-243

DATE 5/ 4/11

INVENTORY		OPERATING		POSTING			
BY	DIST 5 DLMCO	LIVE LOAD	RATING	LIVE LOAD	RATING	TRUCK TYPE	GROSS TONS
		HS20	HS 21.23	HS20	HS 35.39	VEH. 2F1	47.64
						VEH. 3F1	51.08
						VEH. 4F1	55.16

STRUCTURE DESCRIPTION --		LOCATION --		MICROFILM REEL NUMBERS --	
IDENTIFICATION	3002438	DISTRICT	E	DESIGN PLANS	APERTUR
TYPE	112	COUNTY	GUE	COMPUTATIONS	
YEAR OF CONSTR.	1968	CONSTR. RTE.	77	CORRESPONDENCE	110504L
LENGTH	112.00 FEET	CONSTR. SEC.	00.00		
ROADWAY WIDTH	39.00 FEET	CONSTR. STA.	58+45.10		
NUMBER OF SPANS	3	KEY RTE.	FEDERAL		
		MARKED RTE.	IR 77		

ANALYST REMARKS --

GUE-77-0111 R OVER SENECA FORK CREEK; CF=2000(57) LOADING;
 REF. TO STD. DWG. CS-2-65 DATED 6-1-65; PROJ. NO. 591(65);
 MAINTAIN & INSP. BY ODOT; CONTINUOUS 18.50" CONCRETE SLAB;
 SPANS: 34.00'-42.50'-34.00' C/C BRGS.; NO SKEW; SFN 3002438;
 1.75" SUPERPLASTICIZED DENSE CONC. WS; UPDATED BY SAHCO 5-4-2011

TRUCK TYPE VEH.	2F1	TRUCK TYPE VEH.	3F1	TRUCK TYPE VEH.	4F1
MEMBER ID.	S 1	MEMBER ID.	S 1	MEMBER ID.	S 1
SPAN	1	SPAN	2	SPAN	2

CRITICAL C.P. DIST. 13.6 FEET

CRITICAL C.P. DIST. 21.3 FEET

CRITICAL C.P. DIST. 21.3 FEET

SHEAR

SHEAR

SHEAR

(KIPS)

(KIPS)

(KIPS)

MEMBER CAPACITY 105.1

MEMBER CAPACITY 105.1

MEMBER CAPACITY 105.1

DL EFFECT 22.3

DL EFFECT 21.8

DL EFFECT 21.8

CAPACITY FOR (LL+I) 58.5

CAPACITY FOR (LL+I) 59.0

CAPACITY FOR (LL+I) 59.0

ACTUAL (LL+I) 18.4

ACTUAL (LL+I) 26.6

ACTUAL (LL+I) 28.9

POSTING GROSS TONNAGE 47.6

POSTING GROSS TONNAGE 51.1

POSTING GROSS TONNAGE 55.2

SUMMARY OF RATING CALCULATIONS-----STRUCTURE MEMBER S 1 BARS RELEASE 5.5
 SPECIAL LOAD ANALYSIS

INPUT CODING -- STRUCTURE 3002438 D/P STR. I.D.-- 300-243

DATE 5/ 4/11

BY	DIST 5	DLMCO	INVENTORY		OPERATING		SPECIAL LOAD	
			LIVE LOAD	RATING	LIVE LOAD	RATING	TRUCK TYPE	GROSS TONS
			HS20	HS 21.23	HS20	HS 35.39		
							VEH.SPEC	66.00

STRUCTURE DESCRIPTION --		LOCATION --		MICROFILM REEL NUMBERS --	
IDENTIFICATION	3002438	DISTRICT	E	DESIGN PLANS	APERTUR
TYPE	112	COUNTY	GUE	COMPUTATIONS	
YEAR OF CONSTR.	1968	CONSTR. RTE.	77	CORRESPONDENCE	110504L
LENGTH	112.00 FEET	CONSTR. SEC.	00.00		
ROADWAY WIDTH	39.00 FEET	CONSTR. STA.	58+45.10		
NUMBER OF SPANS	3	KEY RTE.	FEDERAL		
		MARKED RTE.	IR 77		

ANALYST REMARKS --

GUE-77-0111 R OVER SENECA FORK CREEK; CF=2000(57) LOADING;
 REF. TO STD. DWG. CS-2-65 DATED 6-1-65; PROJ. NO. 591(65);
 MAINTAIN & INSP. BY ODOT; CONTINUOUS 18.50" CONCRETE SLAB;
 SPANS: 34.00'-42.50'-34.00' C/C BRGS.; NO SKEW; SFN 3002438;
 1.75" SUPERPLASTICIZED DENSE CONC. WS; UPDATED BY SAHCO 5-4-2011

TRUCK TYPE	VEH.	SPEC
MEMBER ID.		S 1
SPAN		3
CRITICAL C.P. DIST.		0.0 FEET

SHEAR

(KIPS)

MEMBER CAPACITY -111.4

DL EFFECT -41.7

CAPACITY FOR (LL+I) -44.0

ACTUAL (LL+I) -26.7

POSTING GROSS TONNAGE 66.0

*** FINAL SUMMARY OF RATING RESULTS FOR --- STRUCTURE ID. 300-243
INVENTORY AND/OR OPERATING ANALYSIS

BARS RELEASE 5.5

STRUCTURE 3002438

D/P STR. ID-- 300-243

INPUT CODING--

INVENTORY

OPERATING

DATE 5/ 4/11

LIVE LOAD RATING

LIVE LOAD RATING

HS20 HS 21.2

HS20 HS 35.4

BY DIST 5 DLMCO

STRUCTURE DESCRIPTION--

LOCATION--

MICROFILM REEL NUMBERS--

IDENTIFICATION 3002438
TYPE 112
YEAR OF CONSTR. 1968
LENGTH 112.00 FEET
ROADWAY WIDTH 39.00 FEET
NUMBER OF SPANS 3

DISTRICT E
COUNTY GUE
CONSTR. RTE. 77
CONSTR. SEC. 00.00
CONSTR. STA. 58+45.10
KEY RTE. FEDERAL
MARKED RTE. IR 77

DESIGN PLANS APERTUR
COMPUTATIONS
CORRESPONDENCE 110504L

ANALYST REMARKS--

GUE-77-0111 R OVER SENECA FORK CREEK; CF=2000(57) LOADING;
REF. TO STD. DWG. CS-2-65 DATED 6-1-65; PROJ. NO. 591(65);
MAINTAIN & INSP. BY ODOT; CONTINUOUS 18.50" CONCRETE SLAB;
SPANS: 34.00'-42.50'-34.00' C/C BRGS.; NO SKEW; SFN 3002438;
1.75" SUPERPLASTICIZED DENSE CONC. WS; UPDATED BY SAHCO 5-4-2011

INVENTORY RATING SUMMARY

MEMBER I.D. S 1
SPAN 3
CRITICAL C.P. DIST. 0.0 FEET
LIVE LOAD DESIGNATION HS20

OPERATING RATING SUMMARY

MEMBER I.D. S 1
SPAN 3
CRITICAL C.P. DIST. 0.0 FEET
LIVE LOAD DESIGNATION HS20

SHEAR

(KIPS)

MEMBER CAPACITY -111.4

DL EFFECT -41.7

CAPACITY FOR (LL+I) -26.4

ACTUAL (LL+I) -24.9

INVENTORY RATING HS 21.23

SHEAR

(KIPS)

MEMBER CAPACITY -111.4

DL EFFECT -41.7

CAPACITY FOR (LL+I) -44.0

ACTUAL (LL+I) -24.9

OPERATING RATING HS 35.39

*** FINAL SUMMARY OF RATING RESULTS FOR --- STRUCTURE ID. 300-243 BARS RELEASE 5.5
 POSTING ANALYSIS

STRUCTURE 3002438 D/P STR. ID-- 300-243

INPUT CODING--

INVENTORY		OPERATING		POSTING	
DATE	LIVE LOAD	RATING	LIVE LOAD	RATING	TRUCK TYPE GROSS TONS
5/ 4/11	HS20 HS	21.23	HS20 HS	35.39	
BY DIST 5 DLMCO					VEH. 2F1 47.6
					VEH. 3F1 51.1
					VEH. 4F1 55.2

STRUCTURE DESCRIPTION--	LOCATION--	MICROFILM REEL NUMBERS--
IDENTIFICATION 3002438	DISTRICT E	DESIGN PLANS APERTUR
TYPE 112	COUNTY GUE	COMPUTATIONS
YEAR OF CONSTR. 1968	CONSTR. RTE. 77	CORRESPONDENCE 110504L
LENGTH 112.00 FEET	CONSTR. SEC. 00.00	
ROADWAY WIDTH 39.00 FEET	CONSTR. STA. 58+45.10	
NUMBER OF SPANS 3	KEY RTE. FEDERAL	
	MARKED RTE. IR 77	

ANALYST REMARKS--

GUE-77-0111 R OVER SENECA FORK CREEK; CF=2000(57) LOADING;
 REF. TO STD. DWG. CS-2-65 DATED 6-1-65; PROJ. NO. 591(65);
 MAINTAIN & INSP. BY ODOT; CONTINUOUS 18.50" CONCRETE SLAB;
 SPANS: 34.00'-42.50'-34.00' C/C BRGS.; NO SKEW; SFN 3002438;
 1.75" SUPERPLASTICIZED DENSE CONC. WS; UPDATED BY SAHCO 5-4-2011

POSTING RATING SUMMARY

TRUCK TYPE	VEH. 2F1	TRUCK TYPE	VEH. 3F1	TRUCK TYPE	VEH. 4F1
MEMBER I.D.	S 1	MEMBER I.D.	S 1	MEMBER I.D.	S 1
SPAN	1	SPAN	2	SPAN	2
CRITICAL C.P. DIST.	13.6 FEET				

CRITICAL C.P. DIST. 21.3 FEET

CRITICAL C.P. DIST. 21.3 FEET

SHEAR

SHEAR

SHEAR

(KIPS)

(KIPS)

(KIPS)

MEMBER CAPACITY 105.1

MEMBER CAPACITY 105.1

MEMBER CAPACITY 105.1

DL EFFECT 22.3

DL EFFECT 21.8

DL EFFECT 21.8

CAPACITY FOR (LL+I) 58.5

CAPACITY FOR (LL+I) 59.0

CAPACITY FOR (LL+I) 59.0

ACTUAL (LL+I) 18.4

ACTUAL (LL+I) 26.6

ACTUAL (LL+I) 28.9

POSTING GROSS TONNAGE 47.6

POSTING GROSS TONNAGE 51.1

POSTING GROSS TONNAGE 55.2

*** FINAL SUMMARY OF RATING RESULTS FOR --- STRUCTURE ID. 300-243 BARS RELEASE 5.5
 SPECIAL LOAD ANALYSIS

STRUCTURE 3002438

D/P STR. ID-- 300-243

INPUT CODING--

INVENTORY

OPERATING

SPECIAL LOAD

DATE 5/ 4/11

LIVE LOAD RATING

LIVE LOAD RATING

TRUCK TYPE GROSS TONS

BY DIST 5 DLMCO

HS20 HS 21.23

HS20 HS 35.39

VEH.SPEC 66.0

STRUCTURE DESCRIPTION--

LOCATION--

MICROFILM REEL NUMBERS--

IDENTIFICATION 3002438
 TYPE 112
 YEAR OF CONSTR. 1968
 LENGTH 112.00 FEET
 ROADWAY WIDTH 39.00 FEET
 NUMBER OF SPANS 3

DISTRICT E
 COUNTY GUE
 CONSTR. RTE. 77
 CONSTR. SEC. 00.00
 CONSTR. STA. 58+45.10
 KEY RTE. FEDERAL
 MARKED RTE. IR 77

DESIGN PLANS APERTUR
 COMPUTATIONS
 CORRESPONDENCE 110504L

ANALYST REMARKS--

GUE-77-0111 R OVER SENECA FORK CREEK; CF=2000(57) LOADING;
 REF. TO STD. DWG. CS-2-65 DATED 6-1-65; PROJ. NO. 591(65);
 MAINTAIN & INSP. BY ODOT; CONTINUOUS 18.50" CONCRETE SLAB;
 SPANS: 34.00'-42.50'-34.00' C/C BRGS.; NO SKEW; SFN 3002438;
 1.75" SUPERPLASTICIZED DENSE CONC. WS; UPDATED BY SAHCO 5-4-2011

SPECIAL LOAD SUMMARY

TRUCK TYPE VEH.SPEC
 MEMBER I.D. S 1
 SPAN 3
 CRITICAL C.P. DIST. 0.0 FEET

SHEAR

(KIPS)

MEMBER CAPACITY -111.4
 DL EFFECT -41.7

CAPACITY FOR (LL+I) -44.0

ACTUAL (LL+I) -26.7

POSTING GROSS TONNAGE 66.0

DETAIL DATA FOR FLEXURAL MEMBER

DATE 05/04/11

NO. SPANS = 3
NOT SYMMETRICAL

D/P STRUCTURE I.D. 300-243
MEMBER I.D.--S01
MATERIAL--RC
LL DIST. FACT. = 0.166

SPAN NO.	LENGTH FT.	RNG. NO.	LENGTH FT.	SEC.NO. LT RT	VAR CODE S	DL DUE TO MEM. WEIGHT		SUPERIMPOSED DISTRIBUTED DL(S) LENGTH DISTRIBUTED*****				SUPERIMPOSED CONCENTRATED DL(S) DIST. FROM LT SUPPORT****					
						W(LT) LBS/FT	W(RT) LBS/FT	SPAN NO.	W(LT) LBS/FT	W(RT) LBS/FT	FT.	FT.	STIFF TRANS.	SPAN LONG. NO.	P KIPS	FT.	
1	34.000	1	29.583	01 01		231.2	231.2	1	50.0	50.0	0.000	34.000					
		2	4.417	02 02		231.2	231.2	2	50.0	50.0	34.000	42.500					
		2	33.667	01 01		231.2	231.2	3	50.0	50.0	76.500	34.000					
2	42.500	1	4.417	02 02		231.2	231.2										
		2	33.667	01 01		231.2	231.2										
		3	4.417	02 02		231.2	231.2										
3	34.000	1	4.417	02 02		231.2	231.2										
		2	29.583	01 01		231.2	231.2										

CHECK POINTS RATED--

SPAN DIS FRM FUNC					SPAN DIS FRM FUNC						
NO.	LT	SPRT	M	VL	VR	NO.	LT	SPRT	M	VL	VR
FT.					FT.						
1		0.000			X						
1		13.600	X	X	X						
1		34.000	X	X	X						
2		0.000	X	X	X						
2		21.250	X	X	X						
2		42.500	X	X	X						
3		0.000	X	X	X						
3		20.400	X	X	X						
3		34.000			X						

DETAIL DATA AT MOMENT CHECK POINT FOR
REINFORCED CONCRETE FLEXURAL MEMBER

BARS RELEASE 5.5

DATE 05/04/11

D/P STRUCTURE I.D. 300-243
MEMBER I.D.--S01
C.P. LOCATION 2.00

***** SECTION PROPERTIES IN RANGE 1 OF SPAN 2

H	B	T	BP	AREA	IX	AS	D	ASP	DP	A	K	J
IN.	IN.	IN.	IN.	SQ.IN.	IN**4	SQ.IN.	IN.	SQ.IN.	IN.	IN.		
18.50	12.00	0.00	12.00	+BEND 222.0	6331.6	1.13	16.61	0.00	2.63	1.00	0.000	0.000
				-BEND 222.0	6331.6	2.54	15.87	0.00	1.89	1.00	0.000	0.000

***** INFLUENCE LINE (SIMPLE SPAN)

***** ALLOWABLE STRESS ***** MOMENT CAPACITY

X-DIST (FT.)	Y-ORDINATE	POS AREA =	REINF. CONC		MOMENT CAPACITY				
			STEEL	CONC	+ BEND	- BEND	+ BEND	- BEND	
			PSI	PSI	FT-KIPS	FT-KIPS	FT-KIPS	FT-KIPS	
***** ORDINATES OF AND AREAS UNDER INFLUENCE LINE (CONTINUOUS SPAN)			INVENTORY	20000.0	1300.0	54.4	111.4	54.4	111.4
			OPERATING	30000.0	2000.0	54.4	111.4	54.4	111.4
			POST VEH1	30000.0	2000.0	54.4	111.4	54.4	111.4
			POST VEH2	30000.0	2000.0	54.4	111.4	54.4	111.4
			POST VEH3	30000.0	2000.0	54.4	111.4	54.4	111.4
			POST SPEC	30000.0	2000.0	54.4	111.4	54.4	111.4
			***** TOTAL DL			***** AVAIL. CAPAC. FOR LL+IMPACT			
			MOMENT EFFECT			TOP	TOP	BOT	BOT
						+BEND	-BEND	+BEND	-BEND
						F-KPS	F-KPS	F-KPS	F-KPS
			FT-KIPS			INVENTORY			
			-41.7			50.1	26.4	50.1	26.4
						OPERATING			
						83.5	44.0	83.5	44.0
			AREA			VEH. 1			
			TOTALS			83.5	44.0	83.5	44.0
						VEH. 2			
						83.5	44.0	83.5	44.0
						VEH. 3			
						83.5	44.0	83.5	44.0
						SPECIAL			
						83.5	44.0	83.5	44.0

***** LIVE LOAD AND RATING CALCULATIONS (IMPACT FACTOR = 0.300 FOR +BEND AND = 0.300 FOR -BEND)

LIVE LOAD	-----TRUCK LOAD-----				-----LANE LOAD-----				RATING FACT.	SAFE LOAD CAPACITY TONS	RATING VALUE	
	LL+IMP	LL	LOC.NO. 1 WHEEL	DIR	AXLE SPACE	LL+IMP	LL	LOC.CONC LOAD				LOC.CONC LOAD 2
	FT-KIPS	FT-KIPS	FT.		FT.	FT-KIPS	FT-KIPS	FT.	FT.			
INV HS20 +BEND	4.9	3.7	114.300	R	0.0	3.0	2.3	90.100				
-BEND	23.5	18.0	28.499	L	0.0	24.9	19.1	51.000	20.400	1.062	38.2	HS 21.2
OPER HS20 +BEND	4.9	3.7	114.300	R	0.0	3.0	2.3	90.100				
-BEND	23.5	18.0	28.499	L	0.0	24.9	19.1	51.000	20.400	1.770	63.7	HS 35.4
POST 2F1 +BEND	2.6	2.0	96.902	R								
-BEND	11.3	8.7	56.749	R						3.902	58.5	
POST 3F1 +BEND	3.9	3.0	100.698	R								
-BEND	16.9	13.0	60.750	R						2.604	59.9	
POST 4F1 +BEND	4.3	3.3	103.502	R								
-BEND	19.1	14.7	61.001	R						2.299	62.1	
POST SPEC +BEND	3.6	2.8	81.500	L								
-BEND	26.7	20.5	64.599	R						1.650	66.0	

DETAIL DATA AT MOMENT CHECK POINT FOR
REINFORCED CONCRETE FLEXURAL MEMBER

BARS RELEASE 5.5

DATE 05/04/11

D/P STRUCTURE I.D. 300-243
MEMBER I.D.--S01
C.P. LOCATION 3.00

***** SECTION PROPERTIES IN RANGE 1 OF SPAN 3

H	B	T	BP	AREA	IX	AS	D	ASP	DP	A	K	J
IN.	IN.	IN.	IN.	SQ.IN.	IN**4	SQ.IN.	IN.	SQ.IN.	IN.	IN.		
18.50	12.00	0.00	12.00	+BEND 222.0	6331.6	1.13	16.61	0.00	2.63	1.00	0.000	0.000
				-BEND 222.0	6331.6	2.54	15.87	0.00	1.89	1.00	0.000	0.000

***** INFLUENCE LINE (SIMPLE SPAN)

***** ALLOWABLE STRESS ***** MOMENT CAPACITY

X-DIST (FT.) POS AREA = REINF. CONC CONC REINF REINF CONC
Y-ORDINATE STEEL + BEND - BEND + BEND - BEND
PSI PSI FT-KIPS FT-KIPS FT-KIPS FT-KIPS

***** ORDINATES OF AND AREAS UNDER INFLUENCE LINE (CONTINUOUS SPAN)

	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6
T 0	0.000	0.000	0.000	0.000	0.000	0.000
E 1	0.225	-0.659	-1.400	0.000	0.000	0.000
N 2	0.437	-1.433	-2.358	0.000	0.000	0.000
T 3	0.621	-2.224	-2.923	0.000	0.000	0.000
H 4	0.764	-2.934	-3.144	0.000	0.000	0.000
5	0.853	-3.465	-3.070	0.000	0.000	0.000
P 6	0.873	-3.718	-2.751	0.000	0.000	0.000
O 7	0.812	-3.597	-2.235	0.000	0.000	0.000
I 8	0.655	-3.002	-1.572	0.000	0.000	0.000
N 9	0.389	-1.836	-0.811	0.000	0.000	0.000
T 0	0.000	0.000	0.000	0.000	0.000	0.000
POS AREA	19.1	0.0	0.0	0.0	0.0	0.0
NEG AREA	0.0	97.2	68.9	0.0	0.0	0.0

INVENTORY	20000.0	1300.0	54.4	111.4	54.4	111.4
OPERATING	30000.0	2000.0	54.4	111.4	54.4	111.4
POST VEH1	30000.0	2000.0	54.4	111.4	54.4	111.4
POST VEH2	30000.0	2000.0	54.4	111.4	54.4	111.4
POST VEH3	30000.0	2000.0	54.4	111.4	54.4	111.4
POST SPEC	30000.0	2000.0	54.4	111.4	54.4	111.4

***** TOTAL DL	***** AVAIL. CAPAC. FOR LL+IMPACT			
MOMENT EFFECT	TOP	TOP	BOT	BOT
	+BEND	-BEND	+BEND	-BEND
FT-KIPS	F-KPS	F-KPS	F-KPS	F-KPS
-41.7	INVENTORY 50.1	26.4	50.1	26.4
	OPERATING 83.5	44.0	83.5	44.0
	VEH. 1 83.5	44.0	83.5	44.0
	VEH. 2 83.5	44.0	83.5	44.0
	VEH. 3 83.5	44.0	83.5	44.0
	SPECIAL 83.5	44.0	83.5	44.0

***** LIVE LOAD AND RATING CALCULATIONS (IMPACT FACTOR = 0.300 FOR +BEND AND = 0.300 FOR -BEND)

LIVE LOAD	-----TRUCK LOAD-----				-----LANE LOAD-----				RATING FACT.	SAFE LOAD CAPACITY TONS	RATING VALUE
	LL+IMP	LL	LOC.NO. 1 WHEEL	DIR	AXLE SPACE	LL+IMP	LL	LOC.CONC LOAD			
INV HS20 +BEND	4.9	3.7	-3.799	L	0.0	3.0	2.3	20.400			
-BEND	23.5	18.0	82.000	R	0.0	24.9	19.1	59.500	90.100	1.062	38.2 HS 21.2
OPER HS20 +BEND	4.9	3.7	-3.799	L	0.0	3.0	2.3	20.400			
-BEND	23.5	18.0	82.000	R	0.0	24.9	19.1	59.500	90.100	1.770	63.7 HS 35.4
POST 2F1 +BEND	2.6	2.0	13.598	L							
-BEND	11.3	8.7	53.750	L						3.902	58.5
POST 3F1 +BEND	3.9	3.0	9.803	L							
-BEND	16.9	13.0	49.751	L						2.603	59.9
POST 4F1 +BEND	4.3	3.3	6.999	L							
-BEND	19.1	14.7	49.498	L						2.299	62.1
POST SPEC +BEND	3.6	2.8	29.000	R							
-BEND	26.7	20.5	45.900	L						1.650	66.0

DATE 05/04/11

SUMMARY OF SHEAR ANALYSIS

D/P STRUCTURE I.D. 300-243

MEMB. ID	SPAN DIS	FRM L	DL SHEAR	SDL SHEAR	---INVENTORY---		---OPERATING---		--VEH. 1 --		--VEH. 2 --		--VEH. 3 --		--SPECIAL--							
					LL+I MAX.V	LL+I MIN.V	LL+I MAX.V	LL+I MIN.V	LL+I MAX.V	LL+I MIN.V	LL+I MAX.V	LL+I MIN.V	LL+I MAX.V	LL+I MIN.V	LL+I MAX.V	LL+I MIN.V						
S01	RC	1	0.000	L	2.9	0.6	5.3	T	0.7	T	5.3	T	0.7	T	2.8	0.3	4.0	0.5	4.4	0.6	3.3	0.4
		1	13.600	L	0.2	0.0	2.3	T	1.8	L	2.3	T	1.8	L	1.4	1.2	1.9	1.5	1.9	1.6	1.8	2.0
		2	0.000	L	4.9	1.1	6.1	T	0.5	T	6.1	T	0.5	T	3.0	0.3	4.4	0.4	5.0	0.5	4.4	0.4
		2	21.250	L	0.0	0.0	2.1	T	2.1	T	2.1	T	2.1	T	1.3	1.3	1.8	1.8	1.8	1.8	2.1	2.1
		3	0.000	L	4.9	1.1	6.0	T	0.1	T	6.0	T	0.1	T	3.0	0.1	4.4	0.1	4.9	0.1	4.5	0.1
		3	20.400	L	0.2	0.0	1.8	L	2.4	T	1.8	L	2.4	T	1.2	1.4	1.5	1.8	1.6	1.8	2.0	1.7
		3	34.000	L	2.9	0.6	0.7	T	5.3	T	0.7	T	5.3	T	0.3	2.8	0.5	4.0	0.6	4.4	0.4	3.1