

CURVE 1
 P.I. = Sta. 100+87.98
 $\Delta = 05^{\circ}29'39''$ LT
 $Dc = 05^{\circ}43'46''$
 $R = 1,000.00'$
 $T = 47.98'$
 $L = 95.89'$
 $E = 1.15'$

CURVE 5
 P.I. = Sta. 104+25.25
 $\Delta = 49^{\circ}32'23''$ RT
 $Dc = 140^{\circ}36'01''$
 $R = 40.75'$
 $T = 18.8'$
 $L = 35.23'$
 $E = 4.13'$

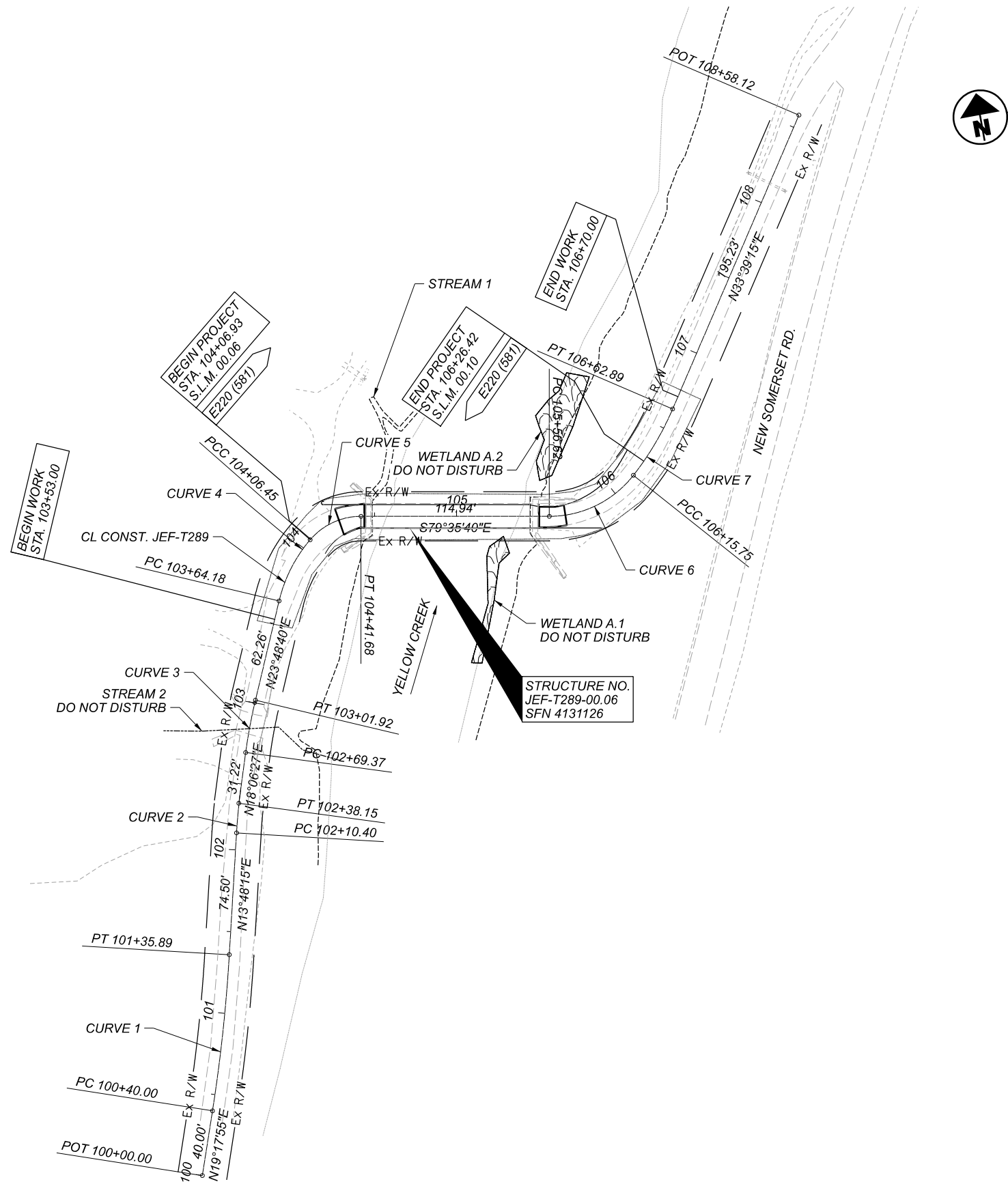
CURVE 2
 P.I. = Sta. 102+24.28
 $\Delta = 04^{\circ}18'12''$ RT
 $Dc = 15^{\circ}30'25''$
 $R = 369.48'$
 $T = 13.88'$
 $L = 27.75'$
 $E = .26'$

CURVE 6
 P.I. = Sta. 105+88.40
 $\Delta = 52^{\circ}01'20''$ LT
 $Dc = 87^{\circ}58'17''$
 $R = 65.13'$
 $T = 31.78'$
 $L = 59.14'$
 $E = 7.34'$

CURVE 3
 P.I. = Sta. 102+85.66
 $\Delta = 05^{\circ}42'13''$ RT
 $Dc = 17^{\circ}31'20''$
 $R = 326.99'$
 $T = 16.29'$
 $L = 32.55'$
 $E = .41'$

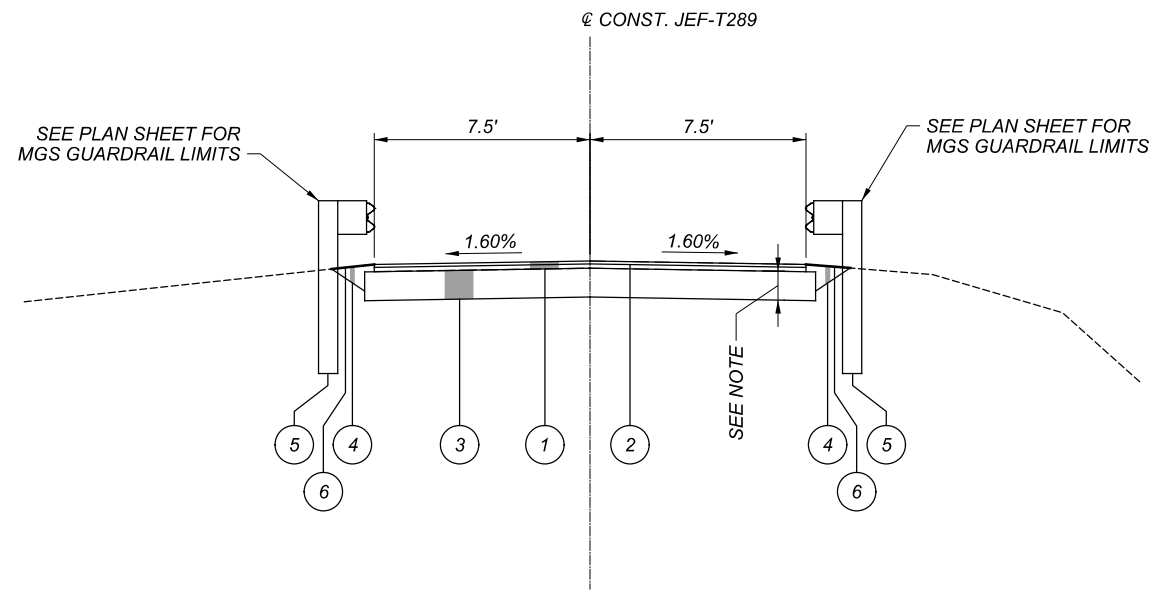
CURVE 7
 P.I. = Sta. 106+39.45
 $\Delta = 14^{\circ}43'45''$ LT
 $Dc = 31^{\circ}14'47''$
 $R = 183.37'$
 $T = 23.70'$
 $L = 47.14'$
 $E = 1.53'$

CURVE 4
 P.I. = Sta. 103+85.71
 $\Delta = 27^{\circ}03'17''$ RT
 $Dc = 64^{\circ}00'08''$
 $R = 89.52'$
 $T = 21.54'$
 $L = 42.27'$
 $E = 2.55'$



SCHEMATIC PLAN

DESIGN AGENCY	
DESIGNER	JTS
REVIEWER	KMD 01/26/24
PROJECT ID	115116
SHEET	P.2
TOTAL	P.24

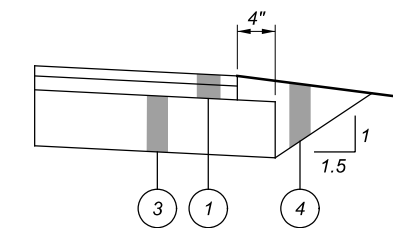


NORMAL SECTION JEF-T289
 STA. 104+27.92 TO STA. 104+42.92
 STA. 105+51.42 TO STA. 105+66.42

PROPOSED LEGEND

- ① ITEM 441 - 3" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 IN TWO 1.5" LIFTS
- ② ITEM 407 - TACK COAT
- ③ ITEM 613 - LOW STRENGTH MORTAR BACKFILL
- ④ ITEM 203 - GRANULAR MATERIAL, TYPE B
- ⑤ ITEM 606 - GUARDRAIL, TYPE MGS
- ⑥ ITEM 659 - SEEDING AND MULCHING

NOTE: 18" MINIMUM. SEE DETAIL ON SHEET P.8



EDGE DETAIL

DESIGN AGENCY

Michael Baker
INTERNATIONAL

DESIGNER
JTS

REVIEWER
KMD 01/26/24

PROJECT ID
115116

SHEET TOTAL
P.3 | P.24

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

FRONTIER COMMUNICATIONS
800-921-8101

CARROLL ELECTRIC COOPERATIVE
350 CANTON RD NW
CARROLTON, OH 44615
800-232-7697

WILLIAMS-ACCESS OPERATING AREA
PO BOX 2400
TULSA, OK 74102-2400
800-945-5426

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE THIS SHEET FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: STATIC GPS/CONVENTIONAL
MONUMENT TYPE: IRON REBAR/ MAG NAILS

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 1988
GEOID: GEOID 12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE, NORTH ZONE (3401)
COMBINED SCALE FACTOR: 1.00000000 (ON GRID)
ORIGIN OF COORDINATE SYSTEM: 0,0,0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH C&MS 623.

UNITS ARE IN U.S. SURVEY FEET.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

SEEDING AND MULCHING

QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ENDANGERED BAT HABITAT REMOVAL

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

DRINKING WATER SOURCE PROTECTION AREA

THIS PROJECT IS LOCATED WITHIN A DRINKING WATER PROTECTION AREA. USE PROPER CONTAINMENT AND DIKING IN REFUELING AREAS. DO NOT STORE FUELS, TOXIC/HAZARDOUS MATERIALS, AND CHEMICALS NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. MAINTAIN A SPILL KIT ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. IMMEDIATELY MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. REPORT ALL SPILLS OR EVENTS TO THE CITY OF TORONTO WATER DEPARTMENT WATER SUPERINTENDENT GARRY DAUGHERTY (PHONE 740-537-2591; EMAIL TORONTOWATERDEPT@BRDBAND.COM). IF THE SPILL IS A REPORTABLE AMOUNT (PER OHIO EPA'S RELEASE REPORTING REQUIREMENTS), CONTACT TORONTO FIRE DEPARTMENT (740) 275-7400 OR THE OHIO EPA'S SPILLS HOTLINE AT 1-800-282-9378 FOR CLEAN-UP OF THE SPILL.

IN-STREAM WORK RESTRICTIONS

DO NOT WORK BELOW THE ORDINARY HIGH WATER MARK OF YELLOW CREEK, OR INSTALL, MODIFY, OR REMOVE ANY EXISTING INSTREAM FILLS DURING THE ODNR INSTREAM WORK RESTRICTION PERIOD OF APRIL 15 - JUNE 30.

IN-STREAM WORK HAS BEEN DEFINED AS THE PLACEMENT AND/OR REMOVAL OF FILL MATERIALS (TEMPORARY OR PERMANENT) BELOW ORDINARY HIGH WATER OF A STREAM. EXAMPLES OF "FILL" INCLUDE (BUT ARE NOT LIMITED TO) BRIDGE PIERS, ABUTMENTS, CULVERTS, ROCK CHANNEL PROTECTION, SCOUR PROTECTION, AND TEMPORARY WORK PADS.

FILLS (SUCH AS TEMPORARY WORK PADS) PLACED WITHIN A STREAM IDENTIFIED IN THE ABOVE TABLE OUTSIDE OF THE WORK RESTRICTION DATES CAN CONTINUE TO BE WORKED FROM DURING THE WORK RESTRICTION DATES, BUT CANNOT BE EXPANDED, REMOVED, OR OTHERWISE MODIFIED (BELOW ORDINARY HIGH WATER) UNTIL ONCE AGAIN OUTSIDE OF THE WORK RESTRICTION DATES.

EASTERN HELLBENDER AVOIDANCE

IN ORDER TO AVOID IMPACTS TO THE STATE LISTED AND PROTECTED EASTERN HELLBENDER, NO WORK SHALL OCCUR BELOW THE NORMAL WATER LEVEL OF YELLOW CREEK AT ANY TIME.

WORK HAS BEEN DEFINED AS THE PLACEMENT AND/OR REMOVAL OF FILL MATERIALS (TEMPORARY OR PERMANENT) BELOW THE NORMAL WATER LEVEL OF YELLOW CREEK. EXAMPLES OF "FILL" INCLUDE (BUT ARE NOT LIMITED TO) BRIDGE PIERS, ABUTMENTS, CULVERTS, ROCK CHANNEL PROTECTION, SCOUR PROTECTION, AND TEMPORARY WORK PADS.

GENERAL SUMMARY			
ITEM	UNIT	TOTAL	DESCRIPTION
201		LS	CLEARING AND GRUBBING
202	SY	48.7	PAVEMENT REMOVED
203	CY	5.8	GRANULAR MATERIAL, TYPE B
407	GAL	3	TACK COAT
441	CY	4.1	3" ASPHALT CONCRETE SURFACE, COURSE, TYPE 1, (449) PG64-22
606	FT	112.5	GUARDRAIL, TYPE MGS
606	FT	50	GUARDRAIL, TYPE MGS QUARTER POST SPACING
606	EACH	1	ANCHOR ASSEMBLY, MGS TYPE T
606	EACH	3	ANCHOR ASSEMBLY, MGS TYPE B
613	CY	79	LOW STRENGTH MORTAR BACKFILL
659	EACH	2	SOIL ANALYSIS TEST
659	CY	8.7	TOPSOIL
659	SY	78.0	SEEDING AND MULCHING
659	SY	3.9	REPAIR SEEDING AND MULCHING
659	SY	3.9	INTER-SEEDING
659	TONS	0.12	COMMERCIAL FERTILIZER
659	ACRES	0.02	LIME
659	MGAL	0.21	WATER

PRIMARY PROJECT CONTROL DATA

POINT	NORTHING	EASTING	ELEVATION	STATION, OFFSET	DESCRIPTION
200	313435.145'	2458653.266'	749.08	101+39.37, 12.01' LT	CONTROL POINT - IPINS
304	313621.981'	2458737.232'	747.08	103+53.24, 9.46' RT	CONTROL POINT - IPINS
201	313691.284'	2458751.807'	747.42	104+12.24, 22.00' LT	CONTROL POINT - IPINS
202	313648.093'	2458939.685'	748.19	105+88.71, 11.32' RT	CONTROL POINT - IPINS
305	313709.788'	2458974.405'	749.70	106+55.21, 14.34' RT	CONTROL POINT - IPINS
BM600	313326.865'	2458647.084'	747.78	100+33.82, 13.07' RT	MAG NAIL - SET IN WEST FACE OF TELEPHONE/POWER POLE
BM601	313829.714'	2459091.757'	754.43	108+20.68, 16.74' RT	MAG NAIL - SET IN WEST FACE OF POWER POLE

DESIGN AGENCY

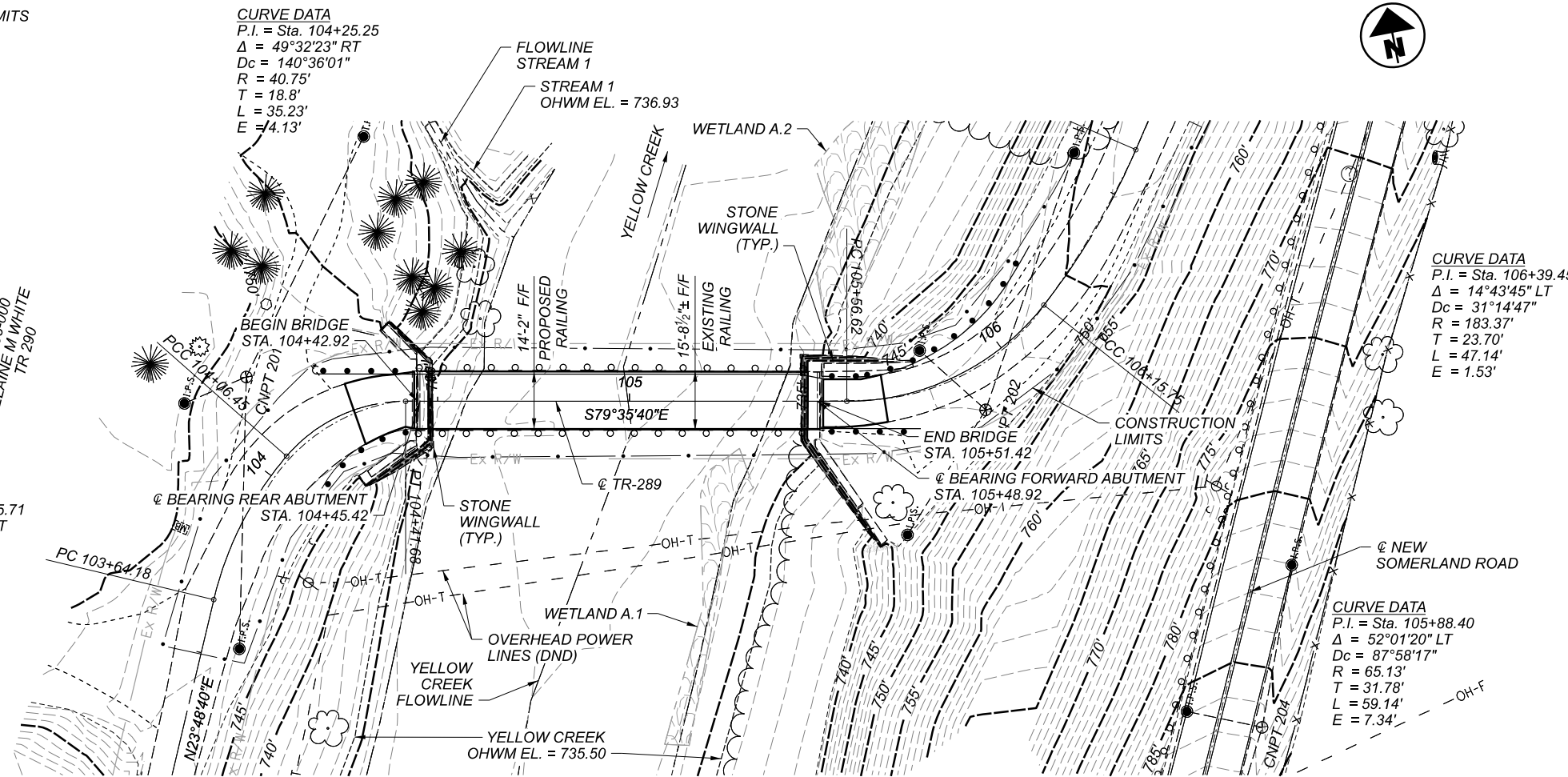
Michael Baker
INTERNATIONAL

DESIGNER
JTS

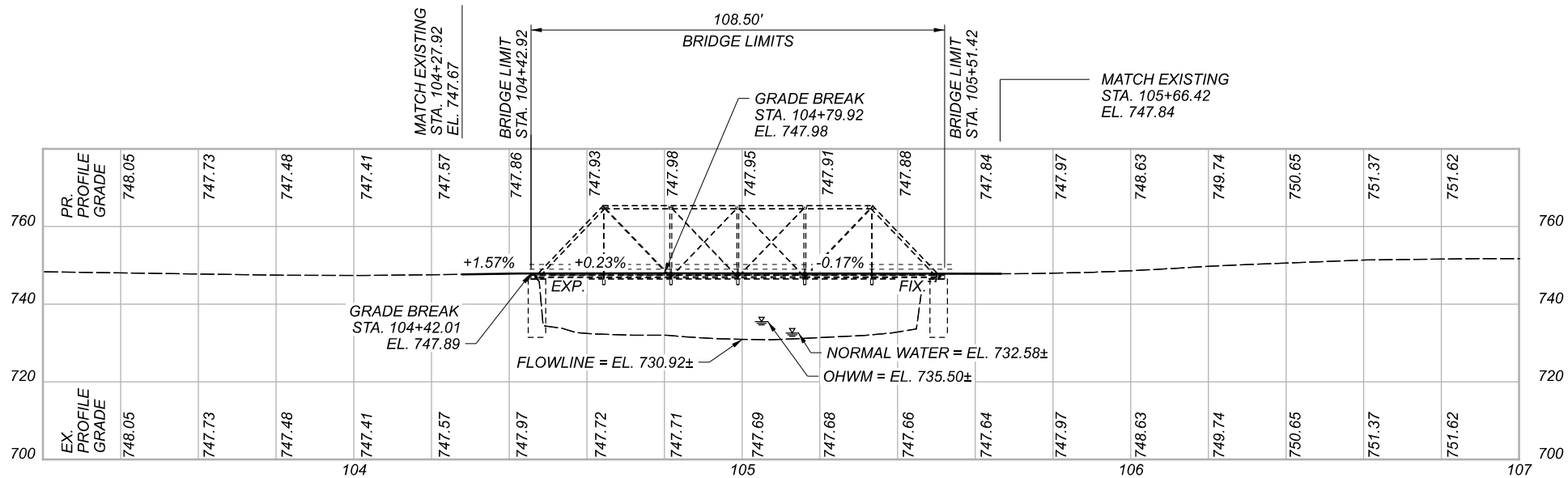
REVIEWER
KMD 01/26/24

PROJECT ID
115116

SHEET TOTAL
P.4 P.24



PLAN



PROFILE ALONG @ T.R. 289

BENCHMARK DATA

BM #600 STA. 100+33.82, ELEV. 747.78, OFFSET 13.07', RIGHT
 BM #601 STA. 108+20.68, ELEV. 754.43, OFFSET 16.74', RIGHT

FOR ADDITIONAL BENCHMARK INFORMATION, SEE ROADWAY PLAN SHEET P.4

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO ROADWAY.

DESIGN TRAFFIC:

2023 ADT = 220 2023 ADTT = 15
 2043 ADT = 240 2043 ADTT = 17

PROPOSED WORK

1. MAINTAIN EXISTING DETOUR.
2. INSTALL TEMPORARY SUPPORTS.
3. DISASSEMBLE EXISTING TRUSS.
4. SALVAGE OR DISCARD MEMBERS PER PLAN.
5. REHABILITATE EXISTING MEMBERS FOR REUSE.
6. PROVIDE REPLACEMENT MEMBERS PER PLAN.
7. PARTIALLY REMOVE ABUTMENT SEAT AND REPLACE WITH SEALED CONCRETE.
8. TUCK POINT EXISTING STONE ABUTMENTS.
9. CONSTRUCT NEW FLOORING SYSTEM INCLUDING FLOORBEAMS, STRINGERS, BEARINGS, DECK, AND RAILINGS.
10. REASSEMBLE TRUSS WITH NEW AND REHABILITATED MEMBERS.
11. CONSTRUCT APPROACH PAVEMENT.
12. REMOVE TEMPORARY SUPPORTS.

EXISTING STRUCTURE

TYPE: ONE SPAN STEEL PIN-CONNECTED TRUSS WITH STEEL STRINGER AND FLOORBEAM FLOORING SYSTEM ON STONE ABUTMENTS

SPANS: 103'-6"± C/C BRGS.

ROADWAY: 15'-8 1/2"± F/F GUARDRAIL

LOADING: UNKNOWN

SKEW: 0°

WEARING SURFACE: 2" ± HMA

APPROACHES: HMA ROADWAY

ALIGNMENT: TANGENT

CROWN: FLAT

STRUCTURE FILE NUMBER: 4131126

DATE BUILT: 1912

DISPOSITION: REHABILITATION

PROPOSED STRUCTURE

TYPE: ONE SPAN STEEL PIN-CONNECTED TRUSS WITH STEEL STRINGER AND FLOORBEAM FLOORING SYSTEM ON STONE ABUTMENTS

SPANS: 103'-6" C/C BRGS.

ROADWAY: 14'-2" F/F GUARDRAIL

LOADING: EV3 AND 24 PSF FUTURE WEARING SURFACE

SKEW: 0°

WEARING SURFACE: 2" INTEGRAL WEARING SURFACE

APPROACHES: ASPHALT PAVEMENT ON TOP OF LSM SUBGRADE

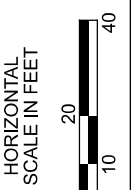
ALIGNMENT: TANGENT

CROWN: 0.016 FT/FT

DECK AREA: 1480 SF

COORDINATES: LATITUDE 40°30'50.40"

LONGITUDE 80°44'10.70"



BRIDGE SITE PLAN
 BRIDGE NO. JEF-T289-0006
 T.R. 289 OVER YELLOW CREEK

SFN	4131126
DESIGN AGENCY	Michael Baker INTERNATIONAL
DESIGNER/CHECKER	PJL / BCM
REVIEWER	NCK 01/26/24
PROJECT ID	115116
SUBSET	1 / 19
SHEET	P.6 / P.24

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

AS-1-15 DATED (REVISED) 1/20/2023
 DS-1-92 DATED (REVISED) 7/15/2022
 EXJ-2-81 DATED (REVISED) 7/15/2022
 GSD-1-19 DATED (REVISED) 1/15/2021

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

800 DATED (REVISED) 7/21/2023
 845 DATED (REVISED) 4/20/2018

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 9th EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

REDUNDANCY:

THE FOLLOWING ITEMS WERE CONSIDERED NON-REDUNDANT FOR DESIGN AND INCLUDE A LOAD MODIFIER EQUAL TO 1.05 IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.4:

1. ALL TRUSS MEMBERS AND CONNECTIONS
2. FLOORBEAMS AND CONNECTIONS

OPERATIONAL IMPORTANCE:

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING:

VEHICULAR LIVE LOAD: EV-3
 FUTURE WEARING SURFACE (FWS): 24 PSF

DESIGN DATA:

CONCRETE CLASS QC2:
 COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE CLASS QC1:
 COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

STRUCTURAL STEEL - ASTM A709 GRADE 50:
 YIELD STRENGTH = 50 KSI

STRUCTURAL STEEL FOR HANGER PINS - ASTM A668 CLASS J ALLOY STEEL
 YIELD STRENGTH = 70 KSI
 ULTIMATE STRENGTH = 95 KSI

STRUCTURAL BOLT - ALL BOLTS FOR TRUSS REHABILITATION TO BE TENSION CONTROLLED BOLTS CONFORMING TO ASTM F3125, GRADE A325, TYPE 1, EXCEPT WHERE NOTED. BOLTS IN REHABILITATED OR REPLACED MEMBERS TO MATCH EXISTING DIAMETER AND HAVE ROUNDED HEADS, SIMILAR IN SHAPE AND SIZE AS THE EXISTING RIVETS. ALL BOLT HOLES SHALL BE INSPECTED AND MODIFIED TO ALLOW FOR GALVANIZING. THE MINIMUM HOLE DIAMETER SHALL BE 1/16-INCH MORE THAN THE STANDARD HOLE SIZE FOR EACH BOLT.

ALTERNATIVELY, THE CONTRACTOR HAS THE OPTION TO PROVIDE FULLY RIVETED CONNECTIONS. ALL DESIGN, LABOR AND MATERIALS REQUIRED TO COMPLETE THE REHABILITATION SHALL BE INCLUDED WITH ITEM 513 STRUCTURAL STEEL, MISC.: TRUSS CONNECTIONS FOR PAYMENT.

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS, SECTIONS 102.05, 105.02, AND 513.04. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE COUNTY WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD. THE BRIDGE WAS CLOSED DUE TO DETERIORATION NOTED AT THE FLOORBEAM HANGER CONNECTIONS. THE CONTRACTOR SHALL CONSIDER LIVE LOAD RESTRICTIONS IMPOSED ON THE STRUCTURE AND VERIFY PROPOSED CONSTRUCTION LOADINGS PRIOR TO PLACING EQUIPMENT ON THE BRIDGE. CONSTRUCTION LOADS ON BRIDGE STRUCTURE SHALL NOT EXCEED LOAD CARRYING CAPACITY OF THE STRUCTURE AND SHALL NOT CAUSE OVERSTRESS OR PERMANENT DEFORMATION TO ANY BRIDGE MEMBERS.

INSPECTION OF EXISTING STRUCTURAL STEEL:

THE ENGINEER WILL VISUALLY INSPECT ALL EXISTING STRUCTURAL STEEL TO BE REUSED IN THE PROPOSED STRUCTURE. AT THE ENGINEER'S DISCRETION ADDITIONAL EXISTING STRUCTURAL STEEL MEMBERS MAY BE REPLACED. THE COUNTY WILL PAY FOR ADDITIONAL REPLACEMENTS AT THE UNIT COST RATE FOR ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 6, AS PER PLAN.

ITEM 845 - GRINDING FINES, TEARS, SLIVERS ON EXISTING:

STRUCTURAL STEEL:
 IF ADDITIONAL QUANTITY IS REQUIRED PAYMENT WILL BE MADE AT THE UNIT RATE AT THE DISCRETION OF THE ENGINEER.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN:

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, EXCEPT FOR WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS, AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE, OR DAMAGE THE ITEMS TO BE PRESERVED. ANY STONE LOOSED IN THE REMOVAL PROCESS SHALL BE RESEALED AND ALL VOIDS AND CRACKS FILLED WITH A NON-SHRINK GROUT. ANY REMAINING VOIDS AND CRACKS ENCOUNTERED IN THE ABUTMENTS AND/OR WINGWALLS SHALL BE POINTED WITH MORTAR. ALL LABOR AND MATERIALS REQUIRED TO PERFORM THIS WORK SHALL BE INCLUDED WITH ITEM 202 FOR PAYMENT. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05.

ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 6,

AS PER PLAN:
 THE CONTRACTOR SHALL FOLLOW ODOT C&MS 513 EXCEPT THAT ALL STEEL SHALL BE GALVANIZED PER C&MS 711.02. ALL WORK, MATERIALS, LABOR AND INCIDENTALS REQUIRED TO GALVANIZE STEEL SHALL BE INCLUDED IN THE COST FOR ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 6, AS PER PLAN.

ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 1,

AS PER PLAN:
 THE CONTRACTOR SHALL FOLLOW ODOT C&MS 513 EXCEPT THAT ALL STEEL SHALL BE GALVANIZED PER C&MS 711.02. ALL WORK, MATERIALS, LABOR AND INCIDENTALS REQUIRED TO GALVANIZE STEEL SHALL BE INCLUDED IN THE COST FOR ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 1, AS PER PLAN.

ITEM 516 - JACKING AND TEMPORARY SUPPORT OF

SUPERSTRUCTURE, AS PER PLAN:
 THIS WORK CONSISTS OF TEMPORARY SUPPORT OF THE STRUCTURE DURING DISMANTLING AND ASSEMBLY OF THE BRIDGE. PRECAUTION SHALL BE TAKEN WHEN REPLACING TRUSS MEMBERS, PINS, BOLTS, AND HANGERS. ALL CONNECTING MEMBERS SHALL BE SUPPORTED IN PLACE BEFORE PERFORMING ANY REMOVAL. PROCEDURES FOR REPLACEMENT OF TRUSS MEMBERS, PINS, BOLTS, AND HANGERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THEIR REPRESENTATIVES. THESE PROCEDURES AND A SEQUENCE OF WORK SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PERFORMING ANY WORK. THE CONTRACTOR SHALL SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH ODOT C&MS 501.05.

ITEM 845 - FIELD METALLIZING OF EXISTING STRUCTURAL STEEL:

FOLLOW SUPPLEMENTAL SPECIFICATION 845, EXCEPT AS NOTED. THE CONTRACTOR MAY GALVANIZE THE EXISTING STRUCTURAL STEEL IN A SHOP ENVIRONMENT FOLLOWING ODOT C&MS 711.02.

ABBREVIATIONS:

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

- ABUT. = ABUTMENT
- ADT = AVERAGE DAILY TRAFFIC
- ADTT = AVERAGE DAILY TRUCK TRAFFIC
- APP. = APPROACH
- BRGS. = BEARINGS
- B.F. = BACK FACE
- C/C = CENTER-TO-CENTER
- C.J. = CONSTRUCTION JOINT
- CLR. = CLEAR
- C&MS = CONSTRUCTION & MATERIALS SPECIFICATIONS
- CONST. = CONSTRUCTION
- CY = CUBIC YARD
- DIA. = DIAMETER
- EA = EACH
- E.F. = EACH FACE
- EL. = ELEVATION
- EQ. = EQUAL
- EX. = EXISTING
- F.A. = FORWARD ABUTMENT
- FF = FRONT FACE
- F/F = FACE-TO-FACE
- F.F. = FAR FACE
- FWD. = FORWARD
- FWS = FUTURE WEARING SURFACE
- GFRP = GLASS FIBER REINFORCED POLYMER
- HW = HEADWATER
- KIPS = KILOPOUNDS
- KSF = KIPS PER SQUARE FOOT
- KSI = KIPS PER SQUARE INCH
- LT. = LEFT
- MAX. = MAXIMUM
- MIN. = MINIMUM
- N.F. = NEAR FACE
- OHWM = ORDINARY HIGH WATER MARK
- O/O = OUT-TO-OUT
- PCB = PORTABLE CONCRETE BARRIER
- PEJF = PREFORMED EXPANSION JOINT FILLER
- PROP. = PROPOSED
- PSF = POUNDS PER SQUARE FOOT
- R.A. = REAR ABUTMENT
- REQ'D = REQUIRED
- RT. = RIGHT
- SER. = SERIES
- SPA. = SPACES
- STD. = STANDARD
- STA. = STATION
- T/S = TOP OF SLOPE
- T/T = TOE-TO-TOE
- TYP. = TYPICAL
- U.N.O. = UNLESS NOTED OTHERWISE

BRIDGE GENERAL NOTES
 BRIDGE NO. JEF-T289-0006
 T.R. 289 OVER YELLOW CREEK

SFN
 4131126

DESIGN AGENCY

Michael Baker
 INTERNATIONAL

DESIGNER CHECKER
 P.J.L. BCM

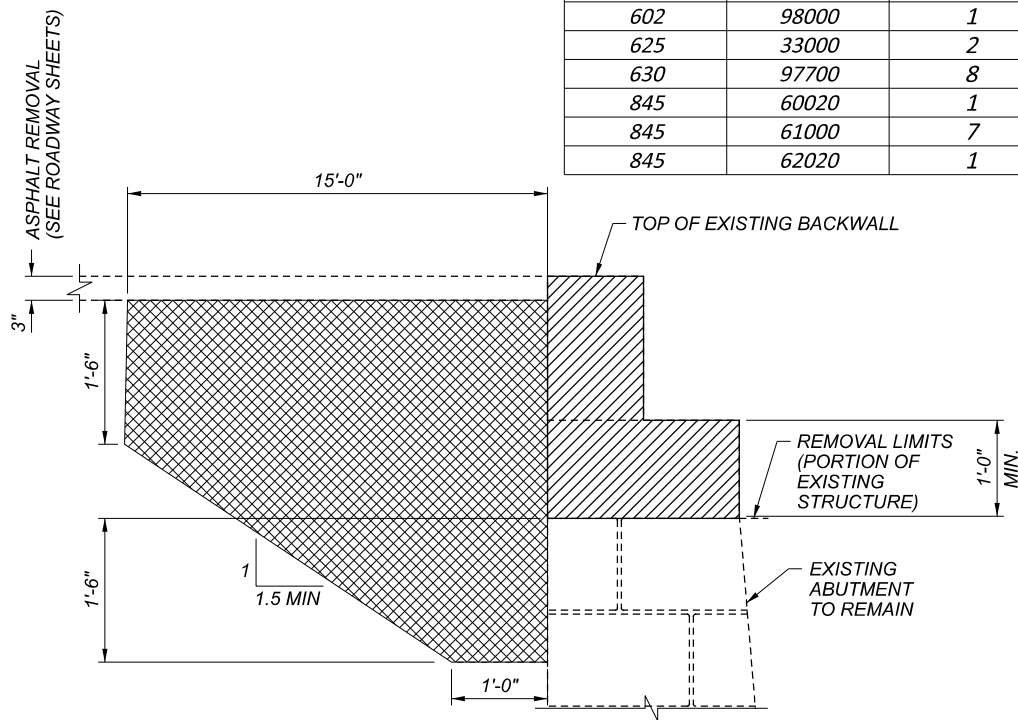
REVIEWER
 NCK 01/26/24

PROJECT ID
 115116

SUBSET TOTAL
 2 19

SHEET TOTAL
 P.7 P.24

				ESTIMATED QUANTITIES	
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	
202	11203	1	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	
503	21101	79	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	
509	10000	1495	LB	EPOXY COATED REINFORCING STEEL	
510	10000	100	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
511	45710	14	CY	CLASS QC1 CONCRETE, ABUTMENT	
512	10100	47	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	33000	19	SY	TYPE 2 WATERPROOFING	
513	10221	32754	LB	STRUCTURAL STEEL MEMBERS, LEVEL 1, AS PER PLAN	
513	10321	14301	LB	STRUCTURAL STEEL MEMBERS, LEVEL 6, AS PER PLAN	
513	20000	2000	EACH	WELDED STUD SHEAR CONNECTORS	
513	95030	3845	FT	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL	
516	10000	29	FT	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL	
516	13600	24	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	41100	20	EACH	1/8" PREFORMED BEARING PAD	
516	44101	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12"x12"x2.3584" BEARING WITH 14"x21.75"x2" LOAD PLATE)	
516	44101	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (8"x8"x2.3584" BEARING WITH 10"x15"x1" LOAD PLATE)	
516	47001	1	LUMP	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	
517	73008	209	FT	RAILING (THRIE BEAM RAIL), MISC.: FLOOR SYSTEM MOUNTED RAILING	
517	76300	209	FT	RAILING, MISC.: DECORATIVE LATTICE RAILING	
518	22300	209	FT	SPECIAL - STEEL DRIP STRIP	
530	600	1481	SF	SPECIAL - STRUCTURE, MISC.: PARTIALLY FILLED STEEL GRID DECK	
602	98000	1	LUMP	MASONRY, MISC.: REPAIR ABUTMENT MORTAR	
625	33000	2	EACH	STRUCTURE GROUNDING SYSTEM	
630	97700	8	EACH	SIGNING, MISC.: PORTAL ORNAMENTATION	
845	60020	1	LUMP	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	
845	61000	7	MNHR	GRINDING FINIS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL	
845	62020	1	LUMP	FIELD METALLIZING OF EXISTING STRUCTURAL STEEL	



UNCLASSIFIED EXCAVATION
NO SCALE

LEGEND:



- EXISTING
- ▨ LIMITS OF REMOVAL
- ▩ LIMITS OF UNCLASSIFIED EXCAVATION, AS PER PLAN (FILL WITH ITEM 613, LOW STRENGTH MORTAR BACKFILL)

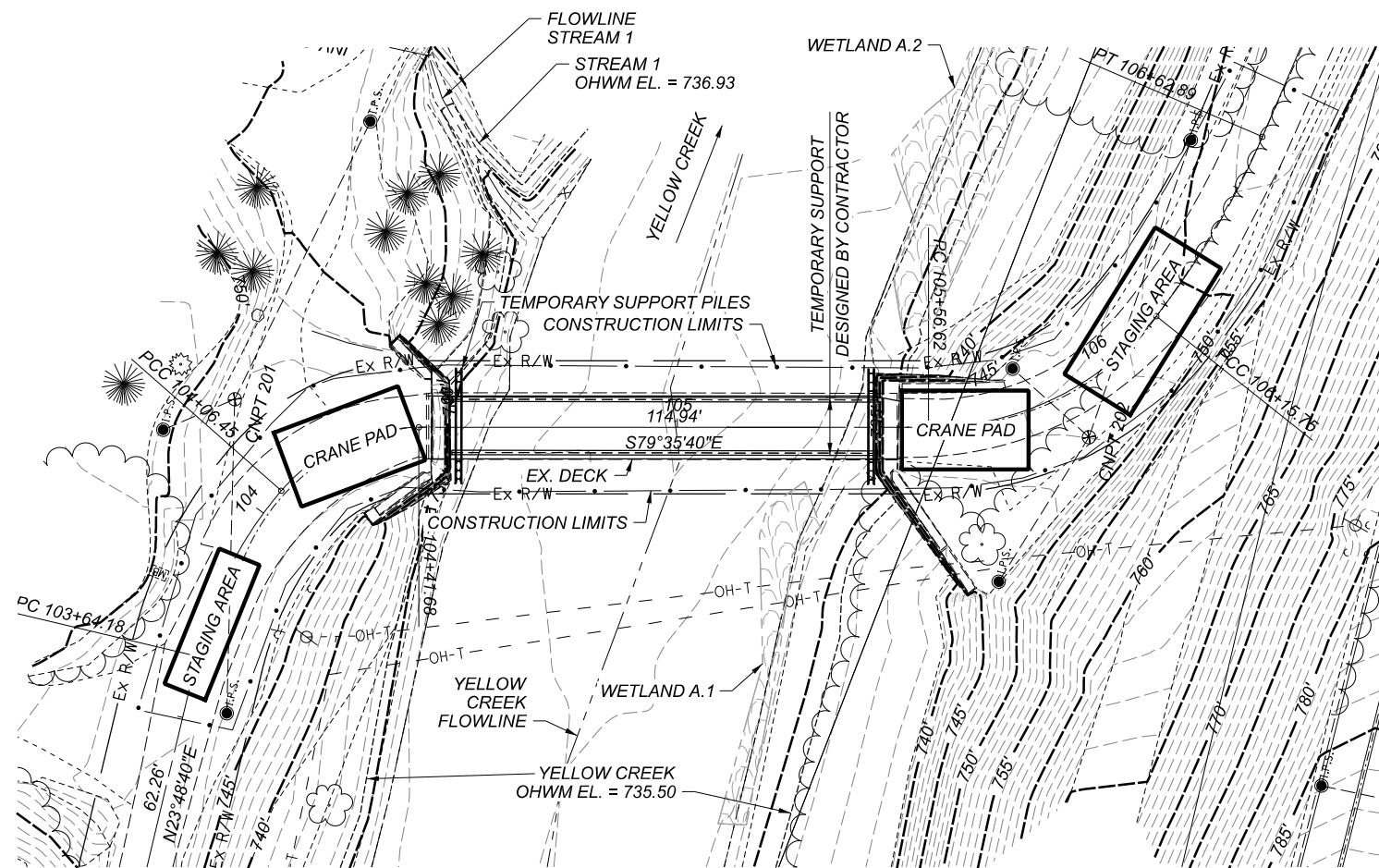
NOTES:

- THE BAR NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHEN FOUR DIGITS ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, P601 IS A NO. 6 BAR. DIMENSIONS ARE SHOWN ARE OUT TO OUT UNLESS OTHERWISE NOTED. "R" INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR. "SER INC" INDICATES THE LENGTH INCREMENT OF A SERIES BAR.
- ALL REINFORCING STEEL SHALL BE EPOXY COATED, UNLESS NOTED OTHERWISE.

MARK	NUMBER TOTAL	LENGTH	WEIGHT (LBS.)	TYPE	ABUTMENT BARS						SER INC.
					DIMENSIONS						
					A	B	C	D	E	R	
A501	48	5'-11"	296	2	2'-6"	1'-2"	2'-6"				
A502	3	22'-4"	70	STR.							
A503	3	20'-10"	65	STR.							
A504	88	5'-3"	482	2	0'-8"	4'-2"	0'-8"				
A505	6	3'-8"	23	STR.							
A506	100	2'-0"	209	1	1'-3"	0'-10"					
A507	4	4'-0"	17	STR.							
A508	6	6'-5"	40	2	2'-6"	1'-8"	2'-6"				
A509	3	24'-0"	75	STR.							
A510	3	26'-8"	83	STR.							
A511	12	3'-11"	49	STR.							
A512	4	20'-8"	86	STR.							
TOTAL:			1495	LBS.							

LOCATION	STATION	PROFILE GRADE EL.	TOP OF DECK AT FASCIA STRINGER	TOP OF DECK AT EDGE
R.A.	104+45.42	747.90	747.80	747.78
FLOORBEAM 1	104+62.67	747.94	747.84	747.83
FLOORBEAM 2	104+79.92	747.98	747.88	747.87
FLOORBEAM 3	104+97.17	747.95	747.85	747.84
FLOORBEAM 4	105+14.42	747.92	747.83	747.81
FLOORBEAM 5	105+31.67	747.90	747.80	747.78
F.A.	105+48.92	747.87	747.77	747.75

 WETLAND LIMITS
 BAT SWH AREAS



TEMPORARY SUPPORT PLAN

POSSIBLE CONSTRUCTION SEQUENCE:
CONTRACTOR TO DETERMINE FINAL SEQUENCE. THIS SEQUENCE IS FOR INFORMATION ONLY.

TR-289 LOCATION

1. DRIVE PILING FOR TEMPORARY SUPPORT.
2. INSTALL TEMPORARY SUPPORT UNDER TRANSVERSE FLOORBEAMS. FLOORBEAM END CONNECTIONS ARE SEVERLY DETERIORATED AND ADDITIONAL SUPPORT OF THE TRUSS, STRINGERS, OR DECK MAY BE REQUIRED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE, DESIGN, AND INSTALL ANY REQUIRED ADDITIONAL SUPPORT BEFORE BEGINNING DISMANTLING OF TRUSS.
3. BRACE TOP CHORD VERTICALS AND DIAGONALS TO ALLOW FOR REMOVAL OF THE TOP CHORD.
4. REMOVE THE TOP LATERAL BRACING AND TOP CHORD.
5. LOWER DIAGONALS AND VERTICALS AS THEIR CONNECTING TOP CHORDS ARE REMOVED.
6. REMOVE TIE AND LOWERED DIAGONALS.
7. PRESERVE AND PIECE MARK ALL MEMBERS TO BE REUSED OR REHABILITATED FOR EASE OF REASSEMBLY. ALL MARKS SHALL BE VISIBLE AFTER CLEANING AND GALVANIZING.
8. REMOVE DECK AND FLOORING SYSTEM FOR DISPOSAL.

FABRICATION SHOP LOCATION

9. PERFORM REPAIRS, REHABILITATION, AND FABRICATE NEW MEMBERS.

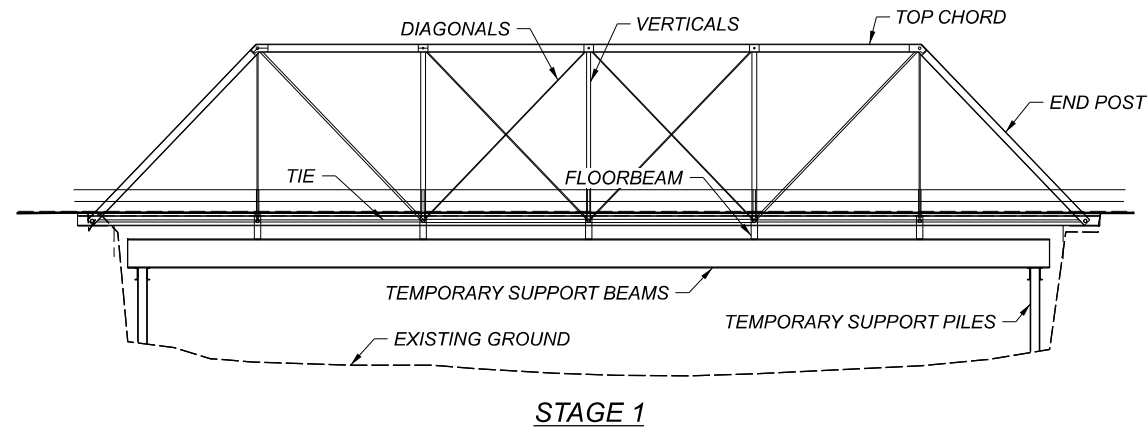
10. HOT DIP GALVANIZE ALL RE-USED AND NEW MEMBERS.

TR-289 LOCATION

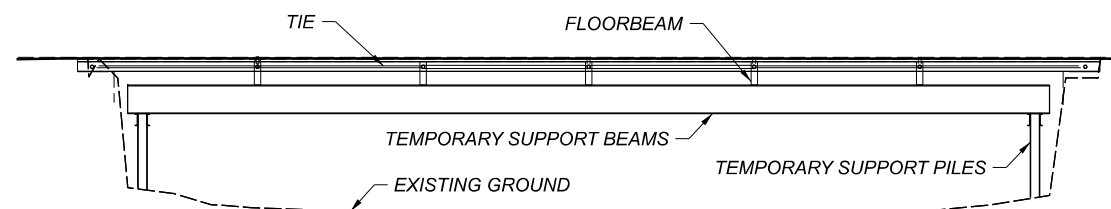
11. RE-CONSTRUCT TRUSS IN REVERSE ORDER STARTING WITH THE FLOORING SYSTEM AND WORKING UP THE TRUSS.
12. REMOVE TEMPORARY SUPPORT SYSTEM AND PILES INSTALLED BENEATH STRUCTURE.
13. POUR CONCRETE DECK INTO PARTIAL DEPTH GRID DECKING.

NOTE:

NO WORK SHALL BE PERFORMED WITHIN THE DESIGNATED WETLAND AREAS. CONTACT ENGINEER IF WORK WITHIN A WETLAND IS UNAVOIDABLE.



STAGE 1



STAGE 2

STAGED CONSTRUCTION DETAILS
BRIDGE NO. JEF-T289-0006
T.R. 289 OVER YELLOW CREEK

SFN
4131126

DESIGN AGENCY

Michael Baker
INTERNATIONAL

DESIGNER CHECKER
BCM PJL

REVIEWER
NCK 01/26/24

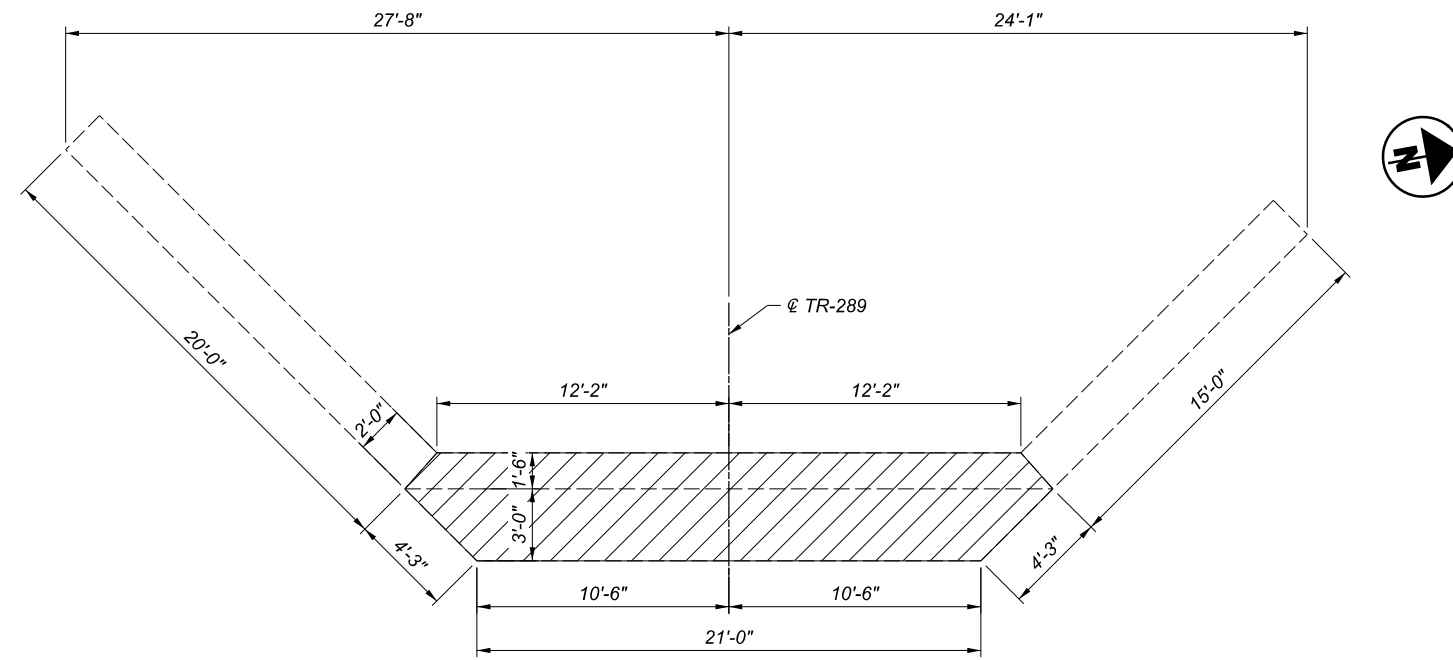
PROJECT ID
115116

SUBSET	TOTAL
4	19

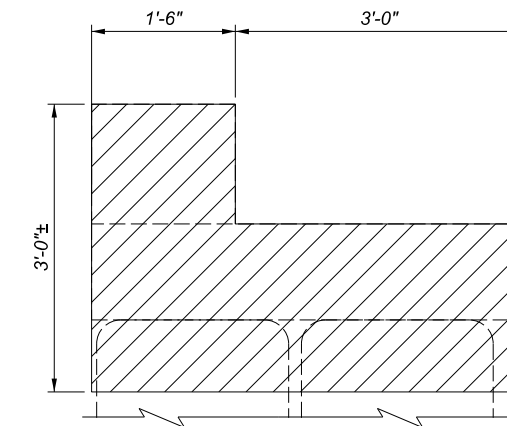
SHEET	TOTAL
P.9	P.24

JEF-T289-00.06

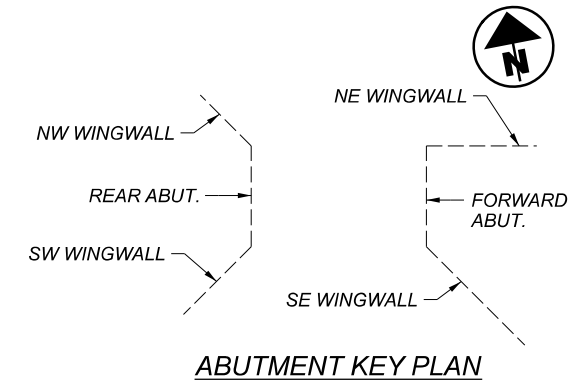
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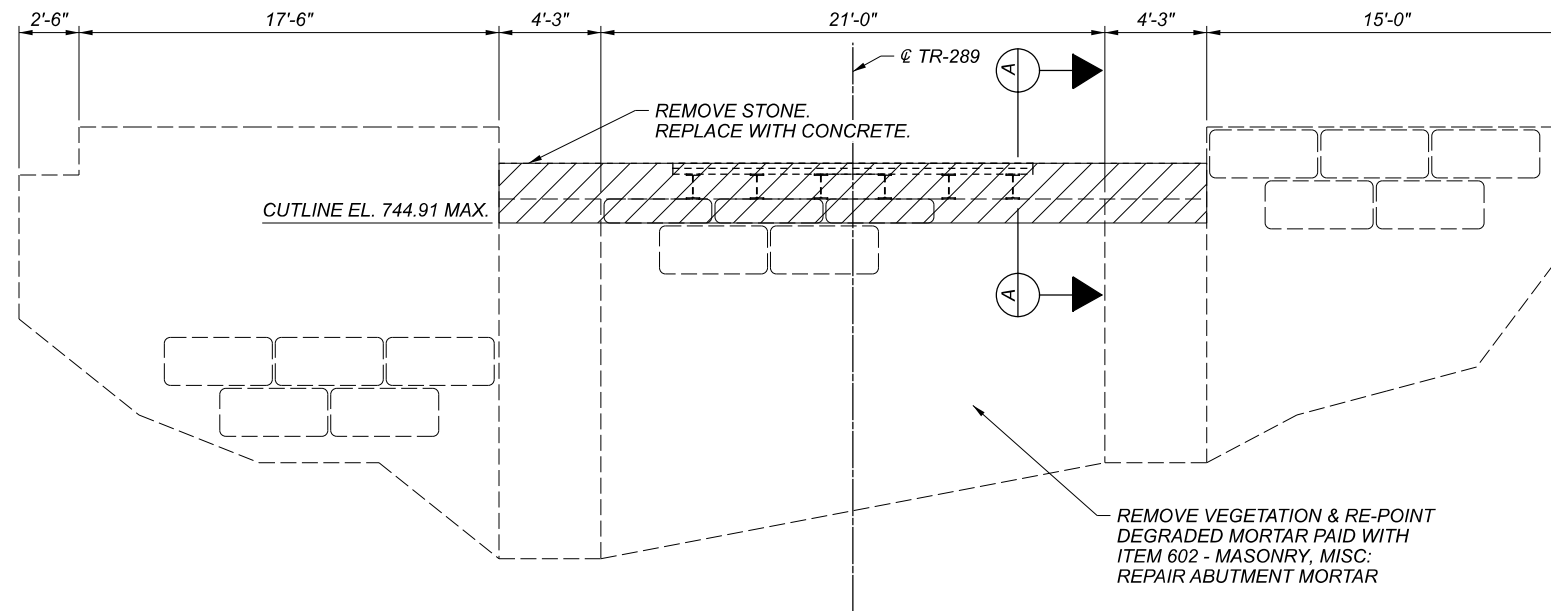
REAR ABUTMENT PLAN (EXISTING)



SECTION A-A (EXISTING)



ABUTMENT KEY PLAN



REAR ABUTMENT ELEVATION (EXISTING)

DEVELOPED ALONG FF ABUT.

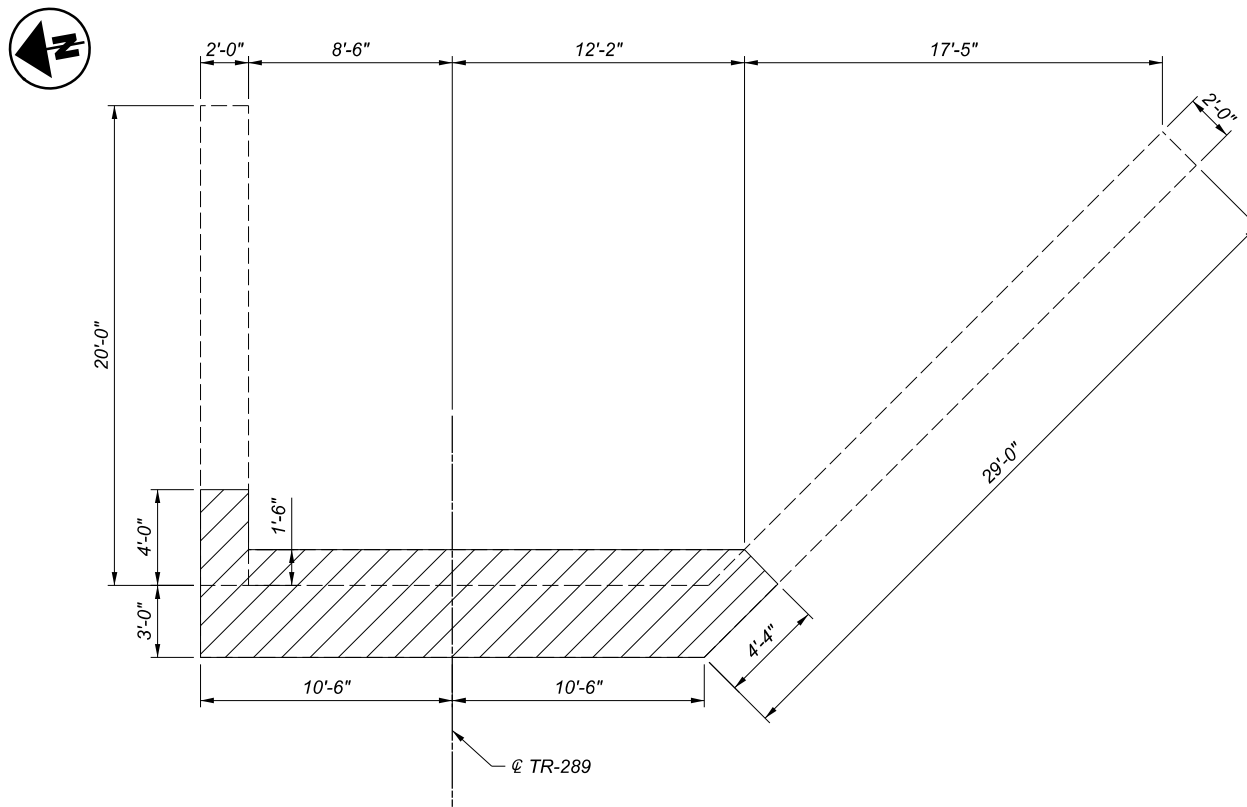
NOTES:

1. THE EXISTING ABUTMENT STONES SHALL BE REMOVED TO A SUFFICIENT DEPTH TO ACCOMMODATE PLACEMENT OF THE PROPOSED SEATS AND ANCHOR RODS. ANY PARTIAL REMOVALS SHALL BE COMPLETED BY SAWCUTTING THE STONES WHERE REQUIRED AND SHEARED TO PROVIDE A CLEAN BREAK. ANY STONES LOOSENED IN THE PROCESS SHALL BE RESET IN A BED OF MORTAR. ALL MATERIALS AND LABOR REQUIRED FOR THIS WORK SHALL BE INCLUDED WITH ITEM 202.

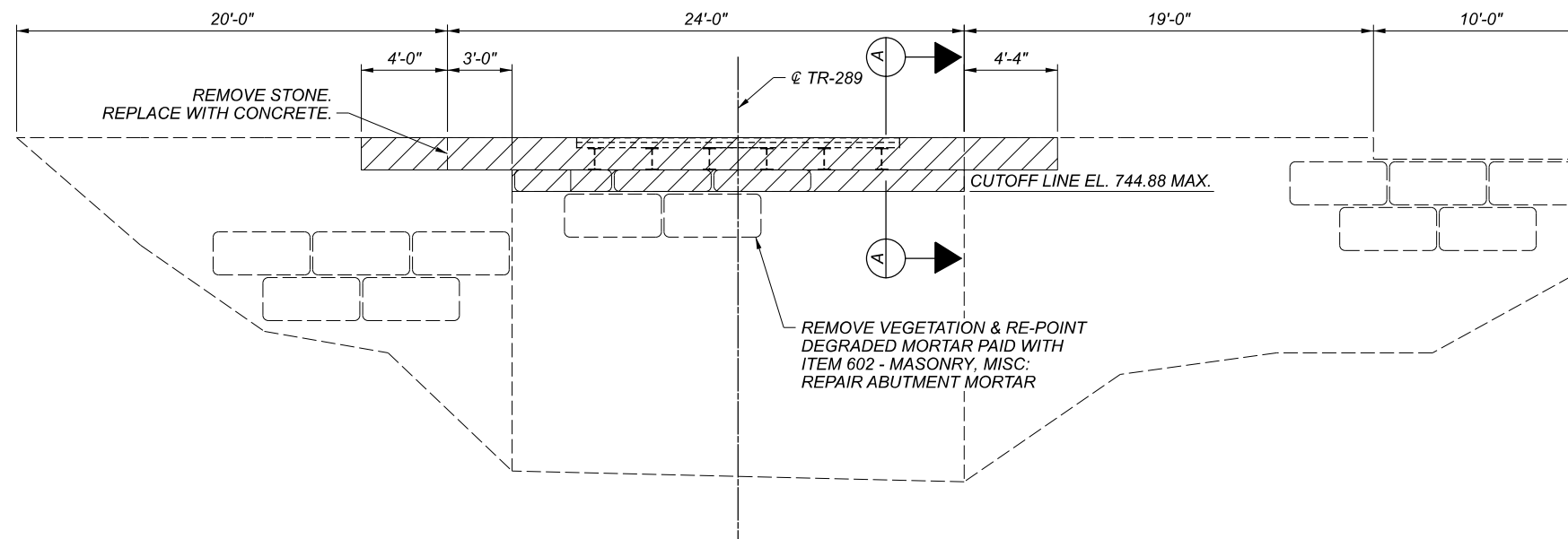
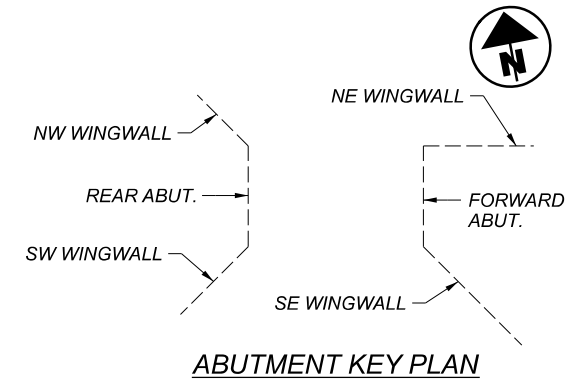
LEGEND

 LIMITS OF REMOVAL AND CONSTRUCTION

SFN	4131126
DESIGN AGENCY	
DESIGNER	Michael Baker INTERNATIONAL
CHECKER	
MS	PJL
REVIEWER	
NCK	01/26/24
PROJECT ID	115116
SUBSET	TOTAL
5	19
SHEET	TOTAL
P.10	P.24



FORWARD ABUTMENT PLAN (EXISTING)



FORWARD ABUTMENT ELEVATION (EXISTING)
 DEVELOPED ALONG FF ABUT.

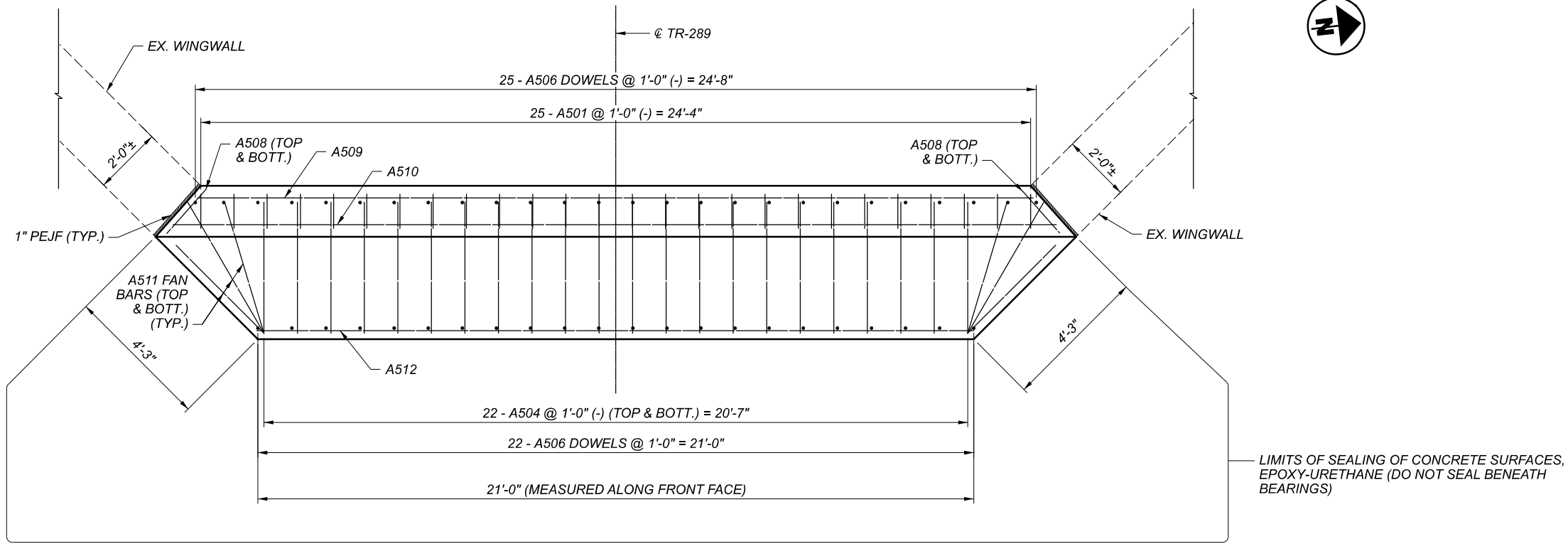
NOTES:

- SEE SHEET 5 FOR NOTES.
- SEE SHEET 5 FOR SECTION A-A.

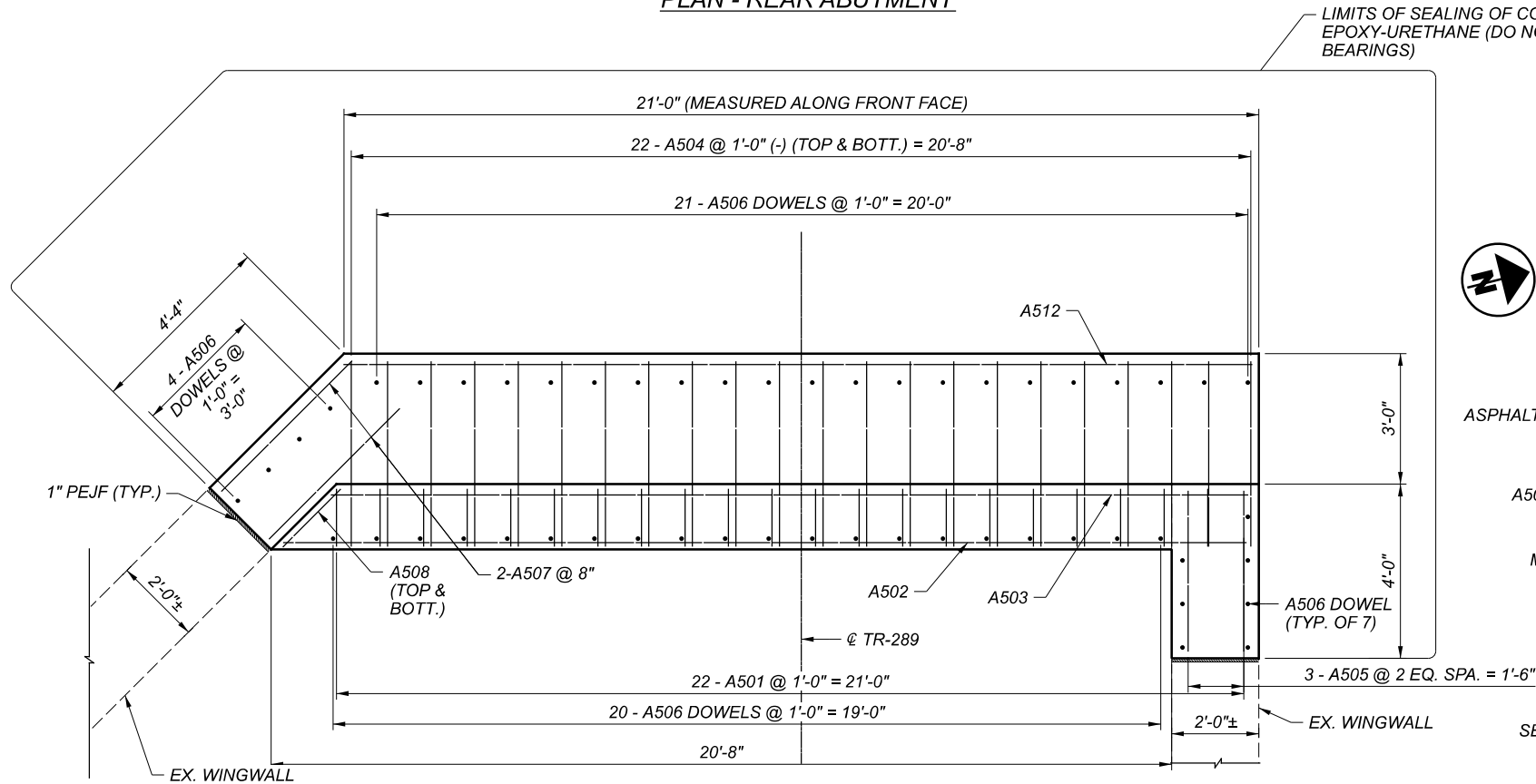
LEGEND

LIMITS OF REMOVAL AND CONSTRUCTION

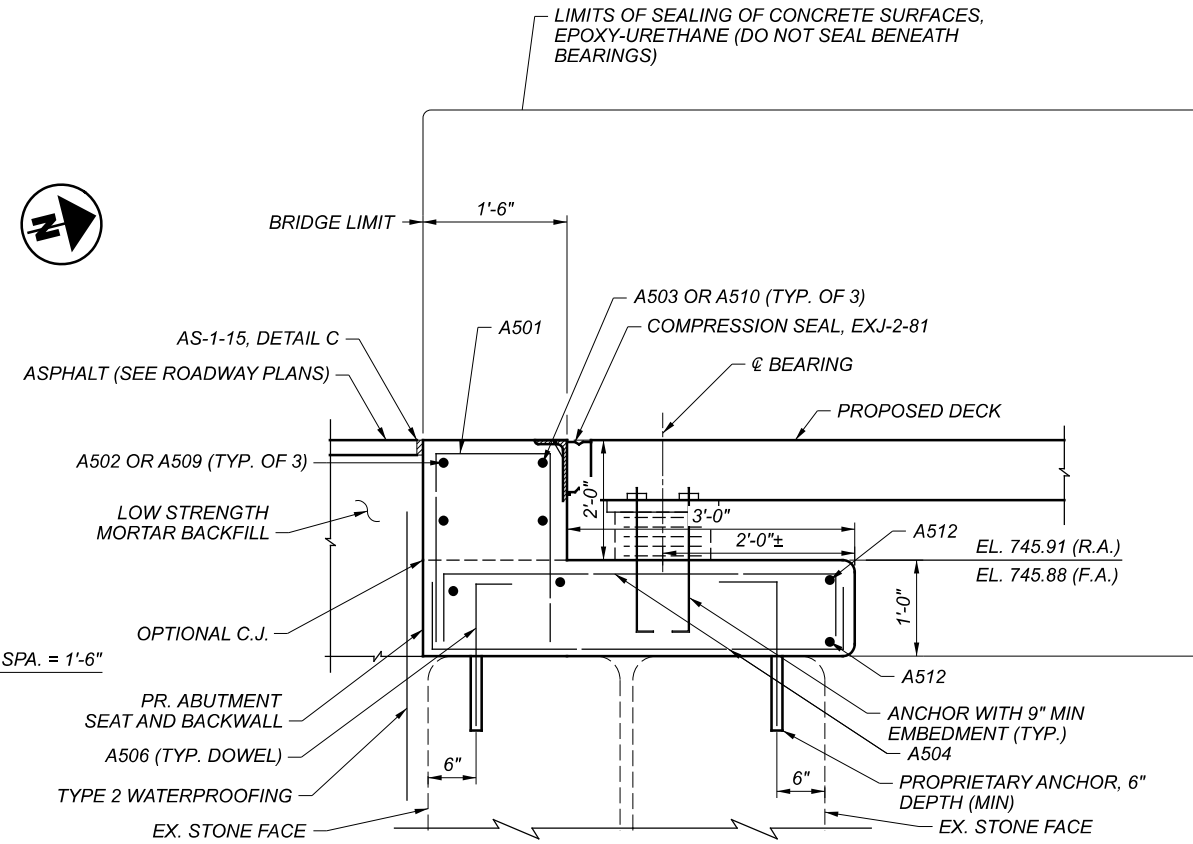
SFN	4131126
DESIGN AGENCY	
Michael Baker INTERNATIONAL	
DESIGNER	CHECKER
MS	PJL
REVIEWER	
NCK	01/26/24
PROJECT ID	115116
SUBSET	TOTAL
6	19
SHEET	TOTAL
P.11	P.24



PLAN - REAR ABUTMENT

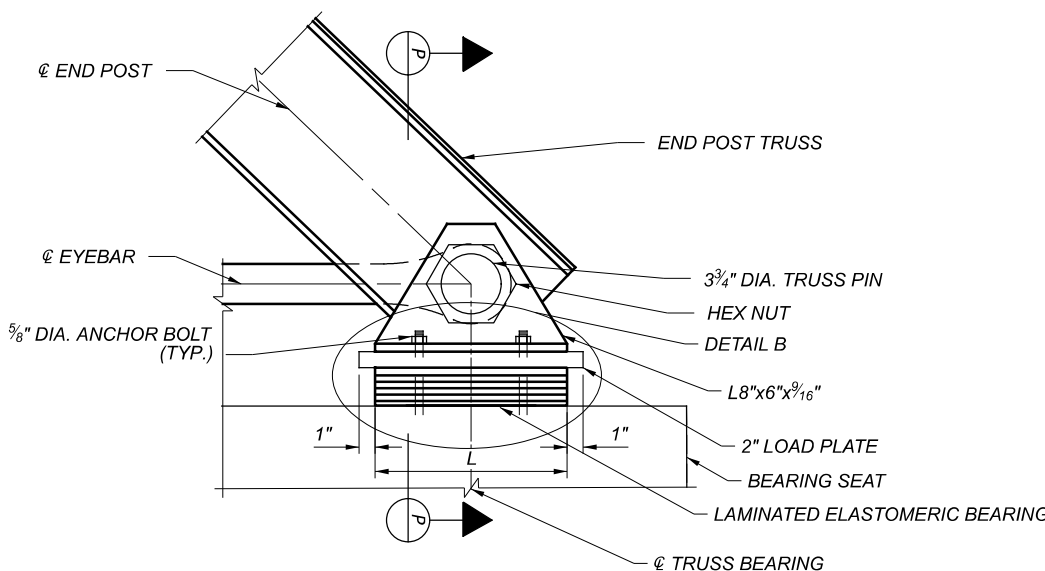
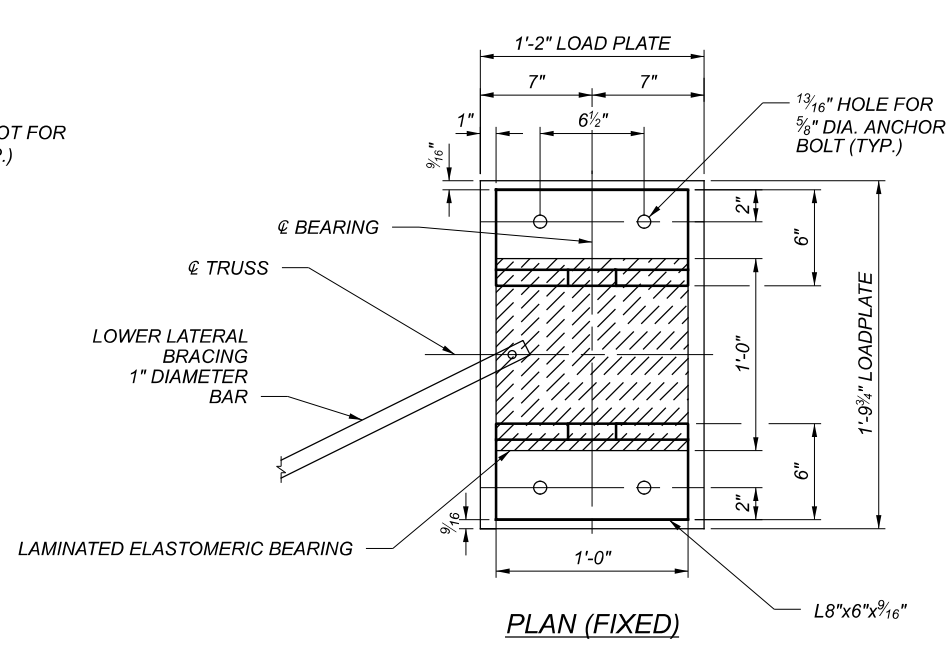
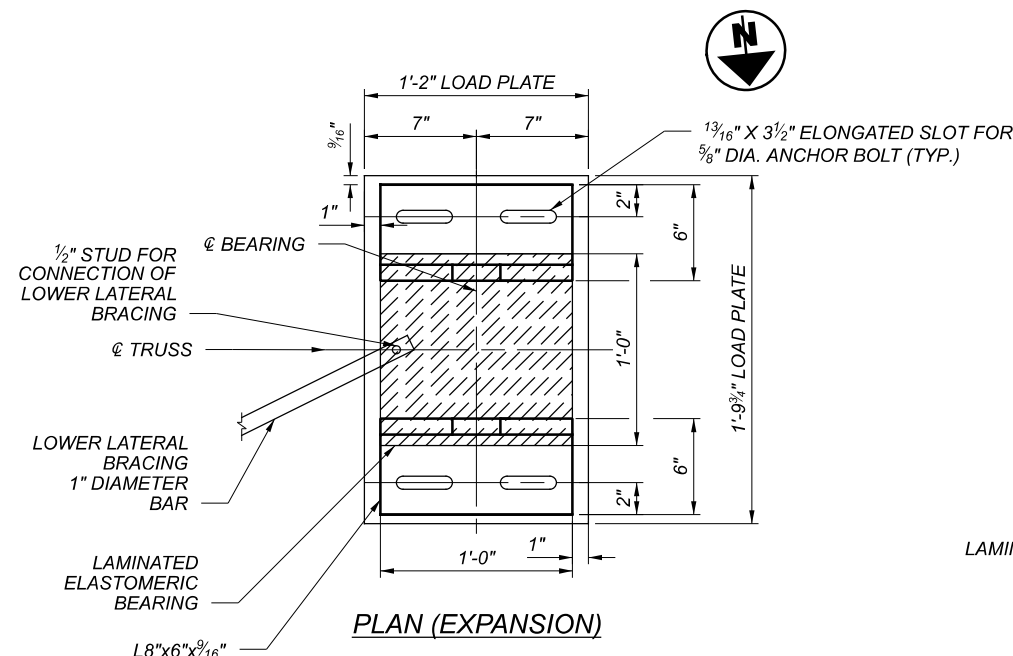


PLAN - FORWARD ABUTMENT

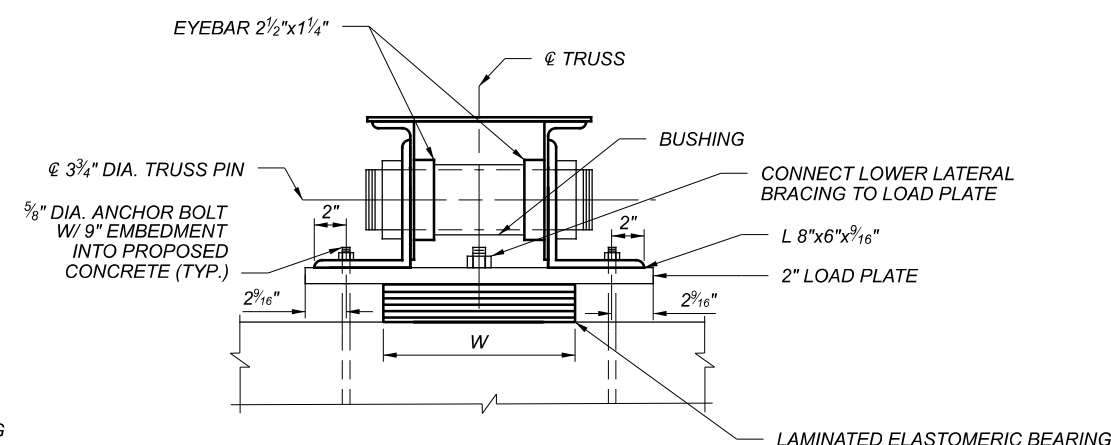


PROPOSED ABUTMENT SECTION

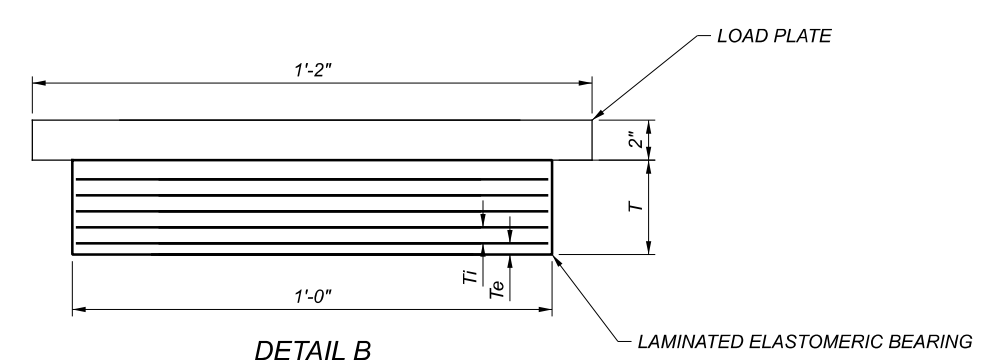
SFN	4131126
DESIGN AGENCY	
DESIGNER	Michael Baker INTERNATIONAL
CHECKER	AJE
REVIEWER	PJL
PROJECT ID	115116
SUBSET	7
TOTAL	19
SHEET	P.12
TOTAL	P.24



ELEVATION
SEE NOTE 6



SECTION P-P



DETAIL B

BEARING SCHEDULE											
LOCATION	TYPE	NUMBER	ELASTOMER PAD SIZE L X W	TOTAL ELASTOMERIC BEARING HEIGHT, T	NO. OF STEEL LAMINATES	INTERNAL LAYERS		EXTERNAL LAYERS		STEEL LOAD PLATE SIZE L X W X T	PIN ELEVATION
						T _i (INCHES)	NO.	T _e (INCHES)	NO.		
TRUSS/REAR ABUTMENT	EXP.	2	12" X 12"	2.3584"	4 X 0.1196"	0.4"	4	0.28"	1	14" X 21 3/4" X 2"	746.62
TRUSS/FORWARD ABUTMENT	FIXED	2	12" X 12"	2.3584"	4 X 0.1196"	0.4"	4	0.28"	1	14" X 21 3/4" X 2"	746.59

NOTES

- THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED IN ACCORDANCE WITH SECTION 14.7.6 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE LONG-TERM COMPRESSION PROOF LOAD TEST (AASHTO STANDARD SPECIFICATINOS FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REQUIRED. STEEL LOAD PLATES SHALL BE A709, GRADE 50
 - ALL BOLTS SHALL BE 5/8" DIAMETER, HIGH STRENGTH ASTM F3125 GRADE A325.
 - SHOP MARK THE LOAD PLATES WITH THE FOLLOWING INFORMATION:
TOP, UPSTATION DIRECTION, AND STRINGER OR TRUSS LINE. ALL MARKS SHALL BE PERMANENT AND BE VISIBLE AFTER THE BEARING IS INSTALLED.
 - THE STEEL LOAD PLATE SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS. WELDING OF THE LOAD PLATE TO THE SUPERSTRUCTURE SHALL BE CONTROLLED SO THAT THE PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACE SHALL NOT EXCEED 300 °F AS DETERMINED BY THE USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.
 - CUT ALL EXISTING ANCHOR BOLTS, AS NECESSARY, TO PROVIDE 3" CLEARANCE TO PROPOSED BRIDGE SEAT ELEVATION
 - BRIDGE SEAT REINFORCING, SETTING ANCHORS: ACCURATELY PLACE REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT TO AVOID INTERFERENCE WITH THE DRILLING OF BEARING ANCHOR HOLES OR THE PRE-SETTING OF BEARING ANCHORS
 - TRUSS BEARINGS ARE DESIGNED FOR THE FOLLOWING SERVICE LOADS (KIPS):
- | | |
|----------------------|-----------|
| | ABUTMENTS |
| DEAD LOAD | 62 |
| LIVE LOAD W/O IMPACT | 52 |
| TOTAL DESIGN LOAD | 114 |
- STRINGER BEARINGS ARE DESIGNED FOR THE FOLLOWING SERVICE LOADS (KIPS):
- | | |
|----------------------|-----------|
| | ABUTMENTS |
| DEAD LOAD | 4 |
| LIVE LOAD W/O IMPACT | 32 |
| TOTAL DESIGN LOAD | 36 |
- THE LOAD PLATES AND ALL STEEL ITEMS IN THE ABUTMENT BEARING SYSTEM SHALL BE PRIME COATED OR METALLIZED AS DESCRIBED IN C&MS 516.03.

TRUSS BEARING DETAILS
 BRIDGE NO. JEF-T289-0006
 T.R. 289 OVER YELLOW CREEK

SFN
4131126
DESIGN AGENCY

Michael Baker
INTERNATIONAL

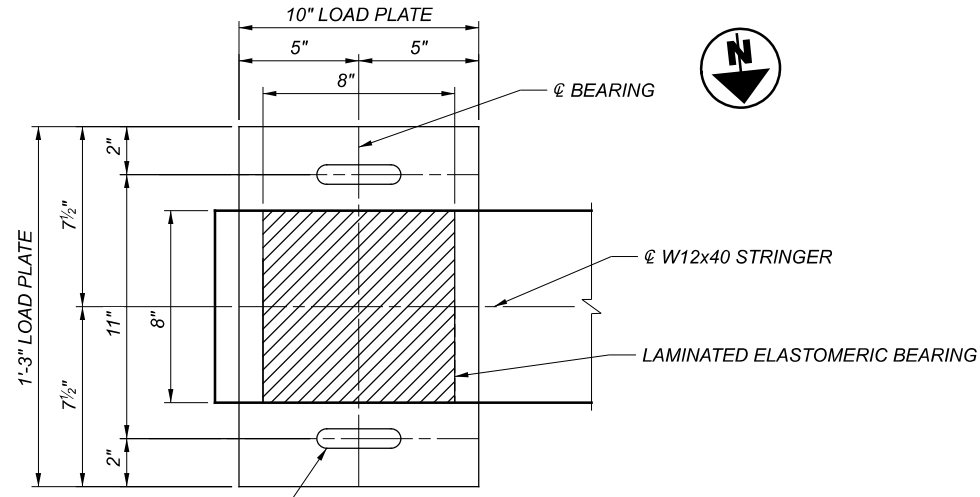
DESIGNER CHECKER
JMM PJL

REVIEWER
NCK 01/26/24

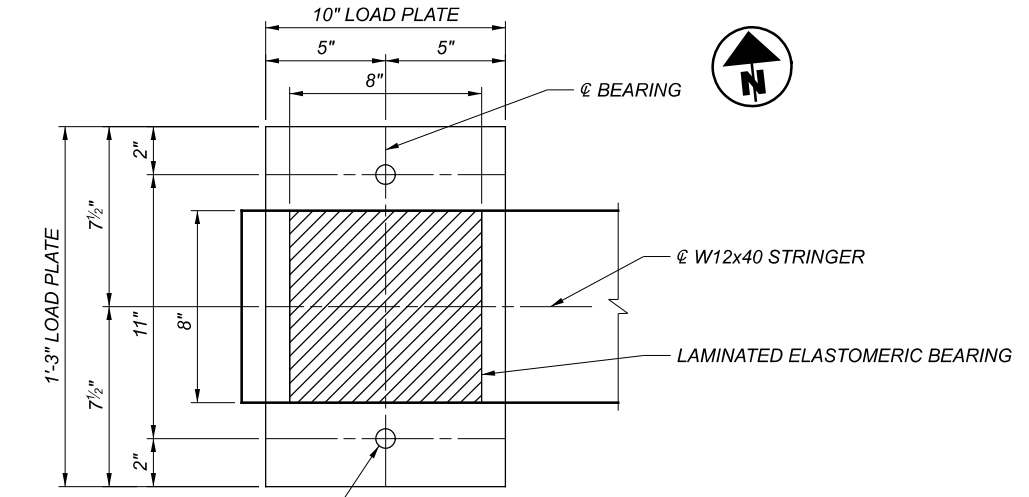
PROJECT ID
115116

SUBSET TOTAL
8 19

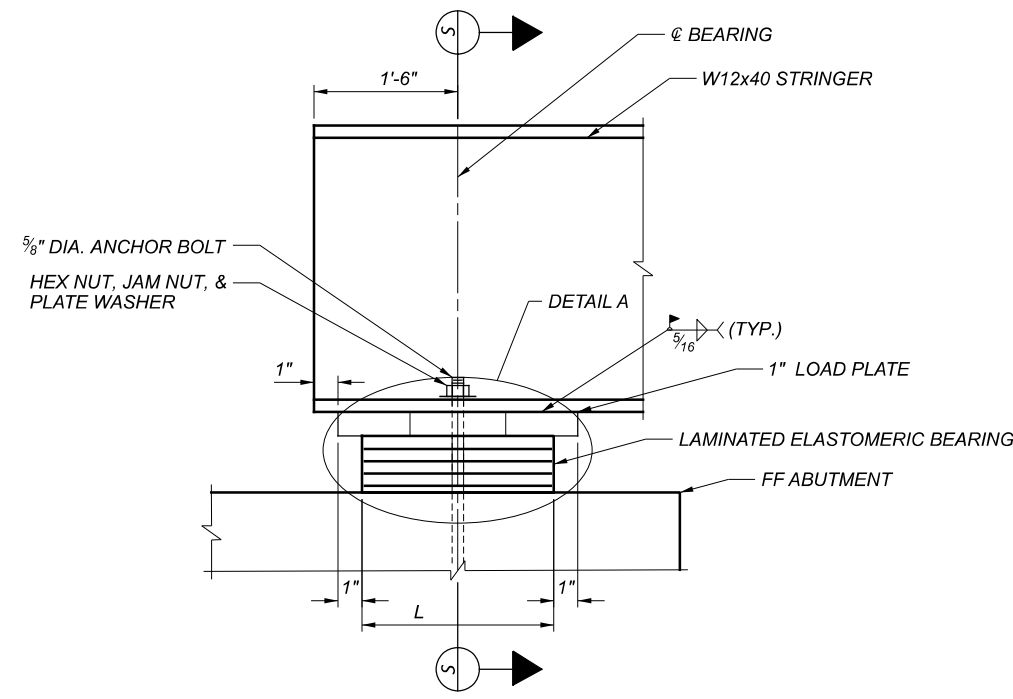
SHEET TOTAL
P.13 P.24



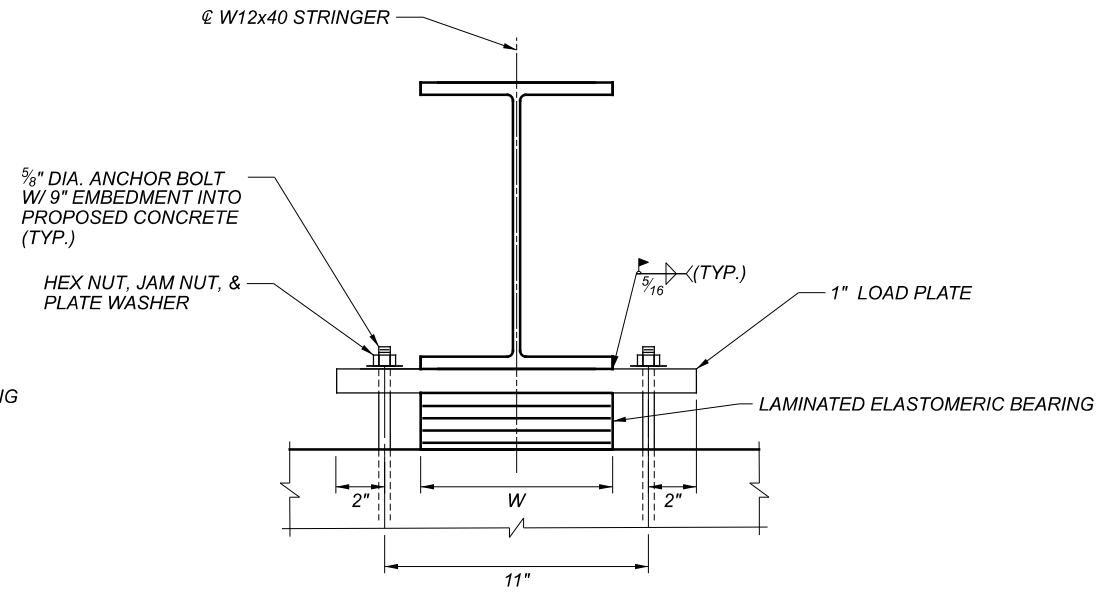
PLAN (EXPANSION)



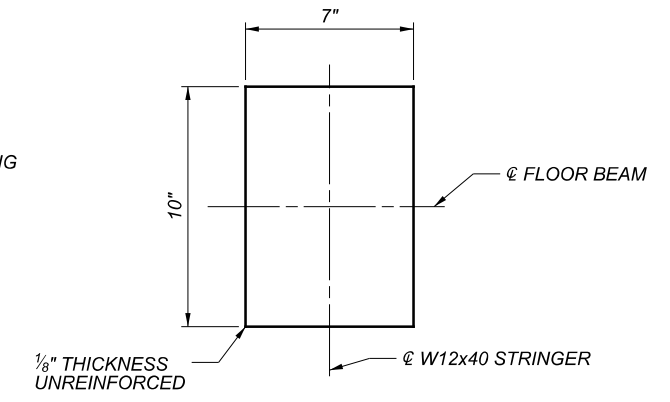
PLAN (FIXED)



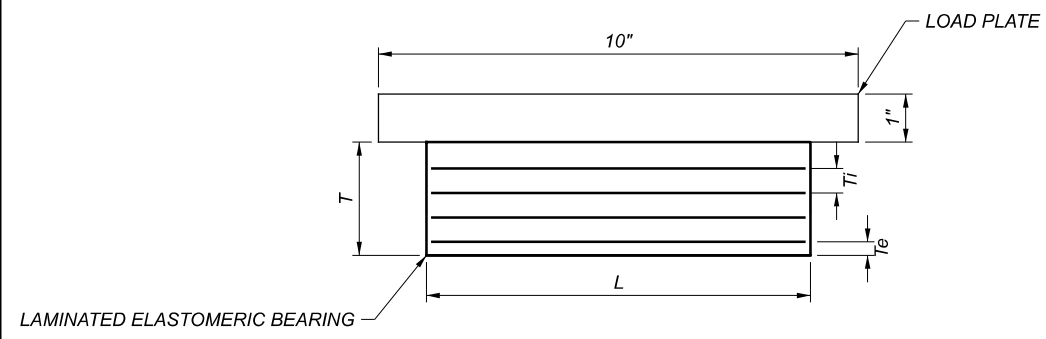
ELEVATION
SEE NOTE 6 P.13



SECTION S-S



BEARING PAD PLAN



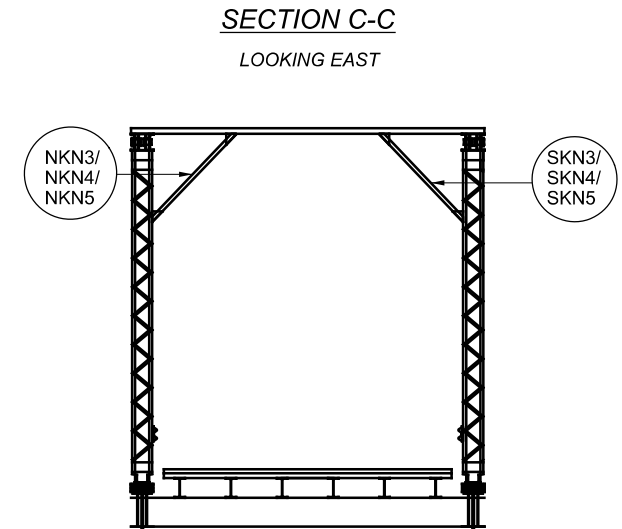
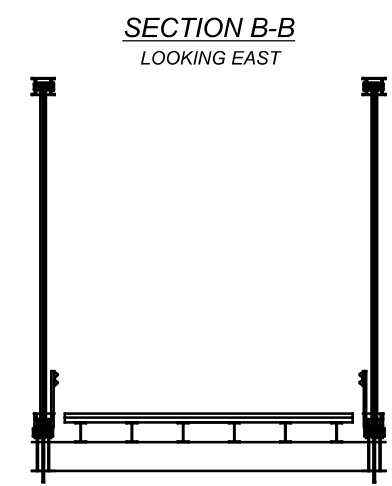
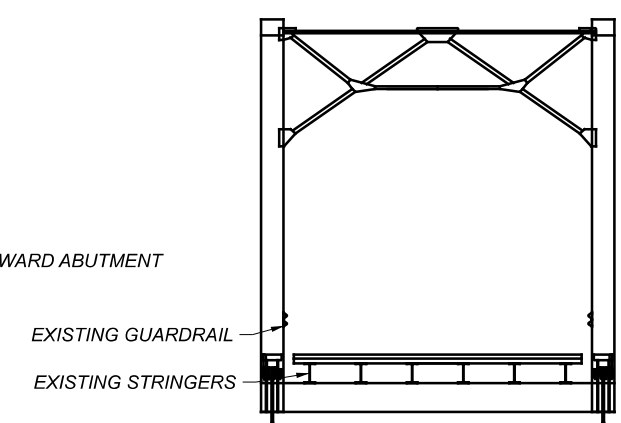
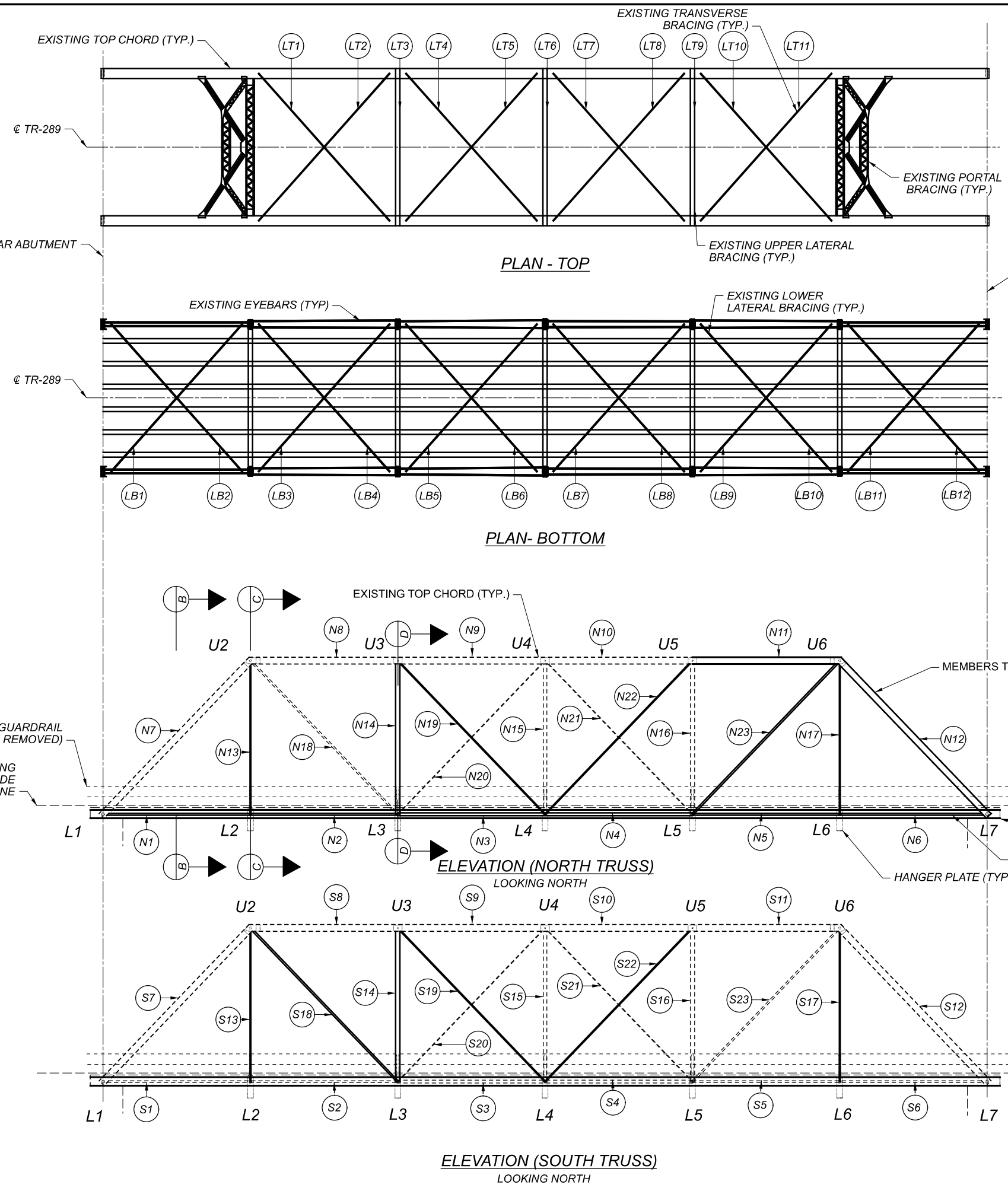
DETAIL A

NOTES:
1. SEE SHEET P.13

BEARING SCHEDULE											
LOCATION	TYPE	NUMBER	ELASTOMER PAD SIZE L X W	TOTAL ELASTOMERIC BEARING HEIGHT, T	NO. OF STEEL LAMINATES	INTERNAL LAYERS		EXTERNAL LAYERS		STEEL LOAD PLATE SIZE L X W X T	ELASTOMER TYPE
						T _i (INCHES)	NO.	T _e (INCHES)	NO.		
STRINGER/REAR ABUTMENT	EXP.	4	8" X 8"	2.3584"	4 X 0.1196"	0.4"	4	0.28"	1	10" X 15" X 1"	LAMINATED
STRINGER/FORWARD ABUTMENT	FIXED	4	8" X 8"	2.3584"	4 X 0.1196"	0.4"	4	0.28"	1	10" X 15" X 1"	LAMINATED
STRINGER/FLOORBEAM	EXP.	20	10" X 7"	0.125"	0 X 0"	0	0	0.125"	1	0	PLAIN

STRINGER BEARING DETAILS
 BRIDGE NO. JEF-T289-0006
 T.R. 289 OVER YELLOW CREEK

SFN	4131126
DESIGN AGENCY	
DESIGNER	Michael Baker INTERNATIONAL
CHECKER	
REVIEWER	MS P.JL
PROJECT ID	NCK 01/26/24
SUBSET	115116
SHEET	9 TOTAL 19
	P.14 TOTAL P.24



NOTES:

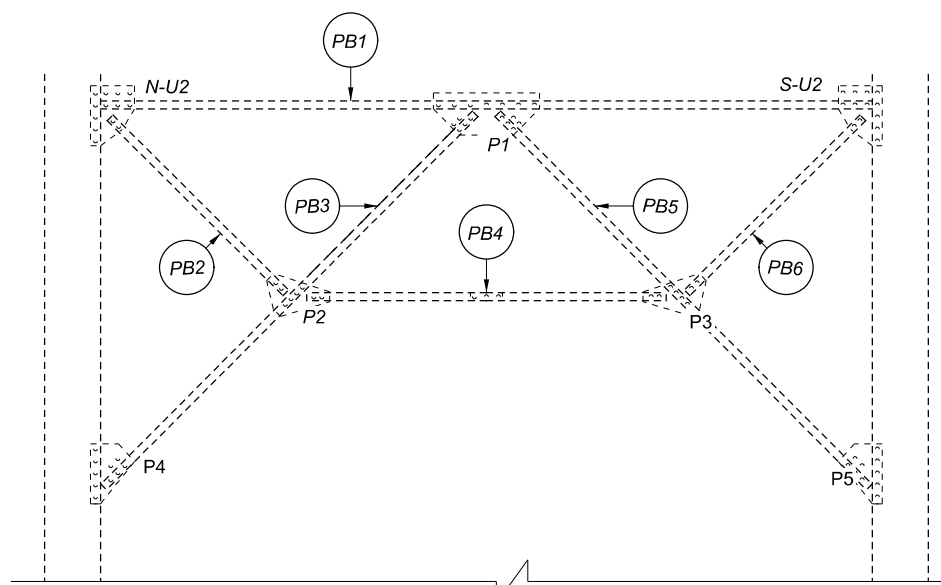
ALL EXISTING GUARDRAIL, STRINGERS, FLOORBEAMS, TO BE REMOVED, AND DISPOSED OF.

SFN	4131126
DESIGN AGENCY	
DESIGNER	Michael Baker INTERNATIONAL
CHECKER	
REVIEWER	
PROJECT ID	115116
SUBSET	TOTAL
10	19
SHEET	TOTAL
P.15	P.24

TRUSS REHABILITATION TABLE

		NAME	FROM	TO	SECTION	WORK
MAIN TRUSS	NORTH TRUSS	N1	L1	L2	2-EYEBARS 2.5" X 1.25"	REPLACE
		N2	L2	L3	2-EYEBARS 2.5" X 1.25"	REPLACE
		N3	L3	L4	2-EYEBARS 4" X 1.25"	REPLACE
		N4	L4	L5	2-EYEBARS 4" X 1.25"	REPLACE
		N5	L5	L6	2-EYEBARS 2.5" X 1.25"	REPLACE
		N6	L6	L7	2-EYEBARS 2.5" X 1.25"	REPLACE
		N7	L1	U2	2-10C15.3, 1-PL 14" X 0.25"	GALVANIZE AND REUSE
		N8	U2	U3	2-10C15.3, 1-PL 14" X 0.25"	GALVANIZE AND REUSE
		N9	U3	U4	2-10C15.3, 1-PL 14" X 0.25"	GALVANIZE AND REUSE
		N10	U4	U5	2-10C15.3, 1-PL 14" X 0.25"	GALVANIZE AND REUSE
		N11	U5	U6	2-10C15.3, 1-PL 14" X 0.25"	REPLACE
		N12	U6	L7	2-10C15.3, 1-PL 14" X 0.25"	REPLACE
		N13	L2	U2	2-EYEBARS 1.25" X 1.25"	REPLACE
	N14	L3	U3	2-6C8.20	REPLACE	
	N15	L4	U4	2-5C6.7	GALVANIZE AND REUSE	
	N16	L5	U5	2-6C8.20	GALVANIZE AND REUSE	
	N17	L6	U6	2-EYEBARS 1.25" X 1.25"	REPLACE	
	N18	U2	L3	2-EYEBARS 2.5" X 1.25"	GALVANIZE AND REUSE	
	N19	U3	L4	2-EYEBARS 0.875" X 0.875"	GALVANIZE AND REUSE	
	N20	L3	U4	2-EYEBARS 1.25" X 1.25"	REPLACE	
	N21	U4	L5	2-EYEBARS 0.875" X 0.875"	GALVANIZE AND REUSE	
	N22	L4	U5	2-EYEBARS 1.25" X 1.25"	REPLACE	
	N23	L5	U6	2-EYEBARS 2.5" X 1.25"	REPLACE	
MAIN TRUSS	SOUTH TRUSS	S1	L1	L2	2-EYEBARS 2.5" X 1.25"	GALVANIZE AND REUSE
		S2	L2	L3	2-EYEBARS 2.5" X 1.25"	GALVANIZE AND REUSE
		S3	L3	L4	2-EYEBARS 4" X 1.25"	GALVANIZE AND REUSE
		S4	L4	L5	2-EYEBARS 4" X 1.25"	GALVANIZE AND REUSE
		S5	L5	L6	2-EYEBARS 2.5" X 1.25"	GALVANIZE AND REUSE
		S6	L6	L7	2-EYEBARS 2.5" X 1.25"	GALVANIZE AND REUSE
		S7	L1	U2	2-10C15.3, 1-PL 14" X 0.25"	GALVANIZE AND REUSE
		S8	U2	U3	2-10C15.3, 1-PL 14" X 0.25"	GALVANIZE AND REUSE
		S9	U3	U4	2-10C15.3, 1-PL 14" X 0.25"	GALVANIZE AND REUSE
		S10	U4	U5	2-10C15.3, 1-PL 14" X 0.25"	GALVANIZE AND REUSE
		S11	U5	U6	2-10C15.3, 1-PL 14" X 0.25"	GALVANIZE AND REUSE
		S12	U6	L7	2-10C15.3, 1-PL 14" X 0.25"	GALVANIZE AND REUSE
		S13	L2	U2	2-EYEBARS 1.25" X 1.25"	REPLACE
	S14	L3	U3	2-6C8.20	REPLACE	
	S15	L4	U4	2-5C6.7	GALVANIZE AND REUSE	
	S16	L5	U5	2-6C8.20	GALVANIZE AND REUSE	
	S17	L6	U6	2-EYEBARS 1.25" X 1.25"	REPLACE	
	S18	U2	L3	2-EYEBARS 2.5" X 1.25"	REPLACE	
	S19	U3	L4	2-EYEBARS 0.875" X 0.875"	REPLACE	
	S20	L3	U4	2-EYEBARS 1.25" X 1.25"	GALVANIZE AND REUSE	
	S21	U4	L5	2-EYEBARS 0.875" X 0.875"	GALVANIZE AND REUSE	
	S22	L4	U5	2-EYEBARS 1.25" X 1.25"	REPLACE	
	S23	L5	U6	2-EYEBARS 2.5" X 1.25"	GALVANIZE AND REUSE	
TOP BRACING	LT3	N-U3	S-U3	2-ANGLES: 3" X3.5" X 0.25"	REPLACE	
	LT6	N-U4	S-U4	2-ANGLES: 3" X3.5" X 0.25"	REPLACE	
	LT9	N-U5	S-U5	2-ANGLES: 3" X3.5" X 0.25"	REPLACE	
	LT2	N-U3	S-U2	1" DIAMETER BAR	REPLACE	
	LT1	N-U2	S-U3	1" DIAMETER BAR	REPLACE	
	LT5	N-U4	S-U3	1" DIAMETER BAR	REPLACE	
	LT4	N-U3	S-U4	1" DIAMETER BAR	REPLACE	
	LT8	N-U5	S-U4	1" DIAMETER BAR	REPLACE	
	LT7	N-U4	S-U5	1" DIAMETER BAR	REPLACE	
	LT11	N-U6	S-U5	1" DIAMETER BAR	REPLACE	
LT10	N-U5	S-U6	1" DIAMETER BAR	REPLACE		

		NAME	FROM	TO	SECTION	WORK
BOTTOM BRACING	LB1	S-L1	N-L2	1" DIAMETER BAR	REPLACE	
	LB2	S-L2	N-L1	1" DIAMETER BAR	REPLACE	
	LB3	S-L2	N-L3	1" DIAMETER BAR	REPLACE	
	LB4	S-L3	N-L2	1" DIAMETER BAR	REPLACE	
	LB5	S-L3	N-L4	1" DIAMETER BAR	REPLACE	
	LB6	S-L4	N-L3	1" DIAMETER BAR	REPLACE	
	LB7	S-L4	N-L5	1" DIAMETER BAR	REPLACE	
	LB8	S-L5	N-L4	1" DIAMETER BAR	REPLACE	
	LB9	S-L5	N-L6	1" DIAMETER BAR	REPLACE	
	LB10	S-L6	N-L5	1" DIAMETER BAR	REPLACE	
	LB11	S-L6	N-L7	1" DIAMETER BAR	REPLACE	
	LB12	S-L7	N-L6	1" DIAMETER BAR	REPLACE	
PORTAL BRACING	EAST	EPB1	N-U6	S-U6	2xL 2"x2.5"0.25" WITH 1.375"X0.25" LACING	REPLACE
		EPB2	S-U6	P2	2xL 2"x2.5"0.25" WITH 1.375"X0.25" LACING	REPLACE
		EPB4	P2	P3	2xL 2"x2.5"0.25" WITH 1.375"X0.25" LACING	REPLACE
	WEST	EPB5	P1	P5	2xL 2"x2.5"0.25" WITH 1.375"X0.25" LACING	REPLACE
		EPB3	P1	P4	2xL 2"x2.5"0.25" WITH 1.375"X0.25" LACING	REPLACE
		EPB6	N-U6	P3	2xL 2"x2.5"0.25" WITH 1.375"X0.25" LACING	REPLACE
PORTAL BRACING	WEST	WPB1	N-U2	S-U2	2xL 2"x2.5"0.25" WITH 1.375"X0.25" LACING	REPLACE
		WPB2	N-U2	P2	2xL 2"x2.5"0.25" WITH 1.375"X0.25" LACING	REPLACE
		WPB4	P2	P3	2xL 2"x2.5"0.25" WITH 1.375"X0.25" LACING	REPLACE
	NORTH	WPB5	P1	P5	2xL 2"x2.5"0.25" WITH 1.375"X0.25" LACING	REPLACE
		WPB3	P1	P4	2xL 2"x2.5"0.25" WITH 1.375"X0.25" LACING	REPLACE
		WPB6	S-U2	P3	2xL 2"x2.5"0.25" WITH 1.375"X0.25" LACING	REPLACE
KNEE BRACING	NORTH	NKN3	-	-	2X L 2" X 3"	REPLACE
		NKN4	-	-	2X L 2" X 3"	REPLACE
	SOUTH	NKN5	-	-	2X L 2" X 3"	REPLACE
		SKN3	-	-	2X L 2" X 3"	REPLACE
		SKN4	-	-	2X L 2" X 3"	REPLACE
SKN5	-	-	2X L 2" X 3"	REPLACE		



PORTAL BRACING KEY

WEST END SHOWN
 LOOKING EAST
 EAST END MIRRORED

NAME DESIGNATION:

LOCATION:
 N = NORTH TRUSS
 S = SOUTH TRUSS
 E = EAST END
 W = WEST END

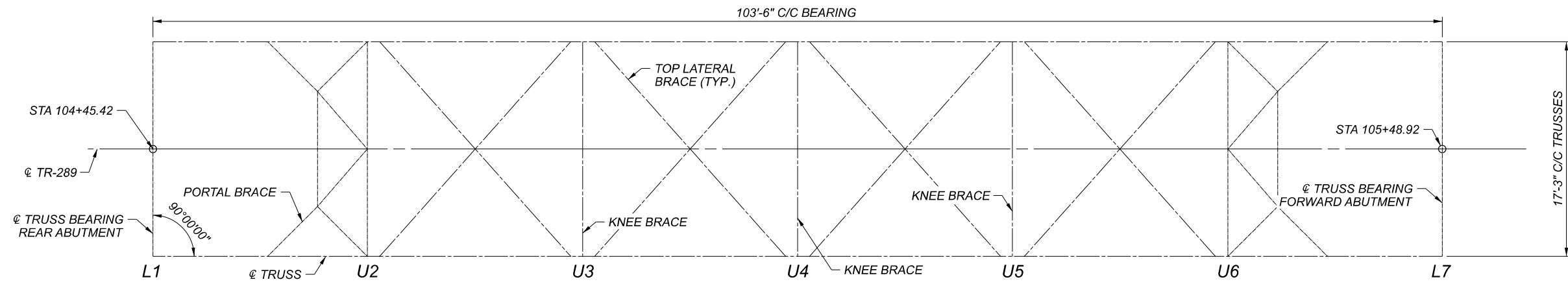
ELEMENT TYPE:

PB = PORTAL BRACING
 KN = KNEE BRACING
 LT = TOP LATERAL BRACING
 LB = BOTTOM LATERAL BRACING
 V = VERTICAL

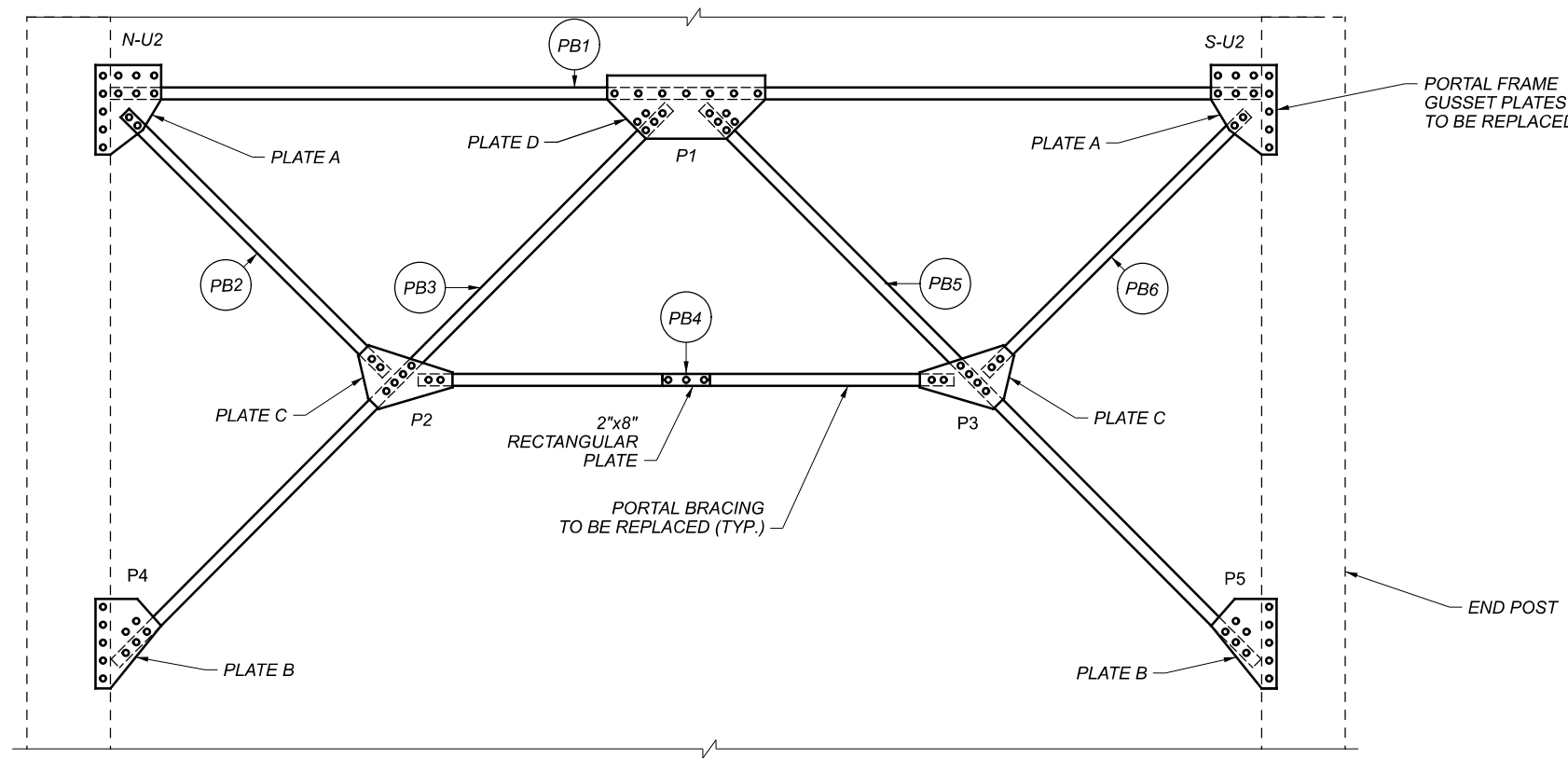
NOTES:

- ALL PROPOSED MAIN TRUSS MEMBERS, STRINGERS, AND FLOORBEAMS SHALL BE DESIGNATED CVN. FURNISH MATERIAL THAT MEETS THE MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN C&MS 711.01.

SFN	4131126
DESIGN AGENCY	Michael Baker INTERNATIONAL
DESIGNER	JMM
CHECKER	PJL
REVIEWER	NCK
PROJECT ID	115116
SUBSET	11
TOTAL	19
SHEET	P.16
TOTAL	P.24



FRAMING PLAN (TOP)



PORTAL BRACING

U2 SHOWN
U6 SIMILAR

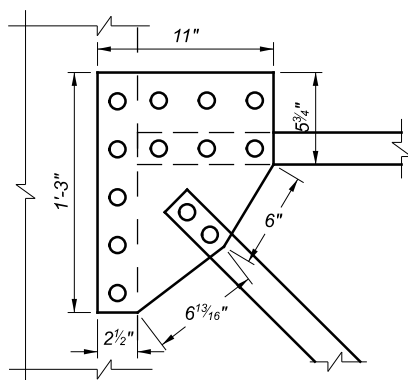


PLATE A DETAIL

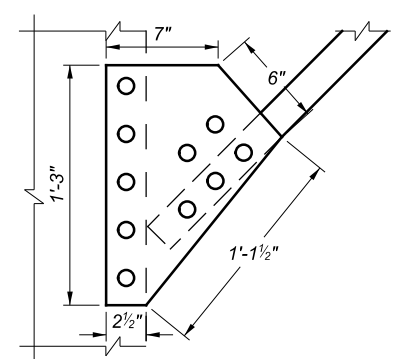


PLATE B DETAIL

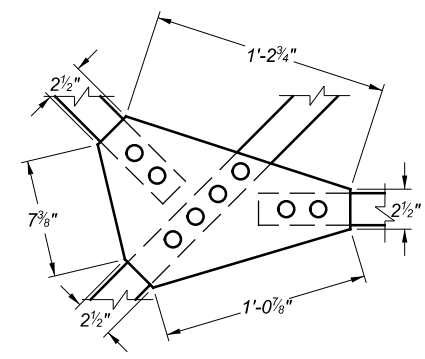


PLATE C DETAIL

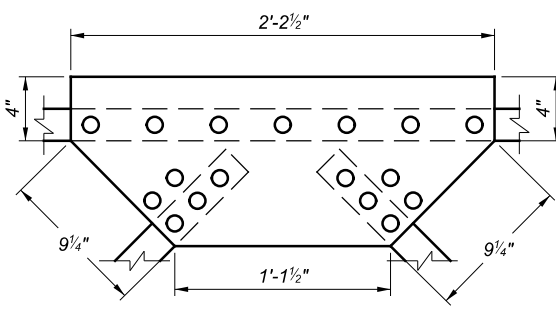
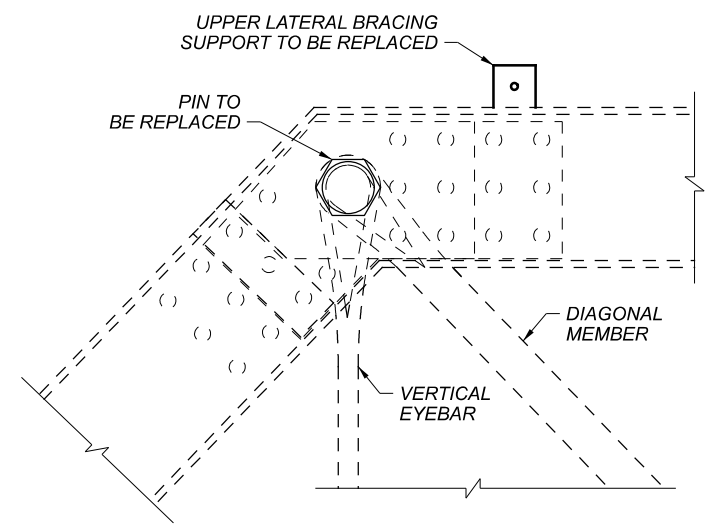
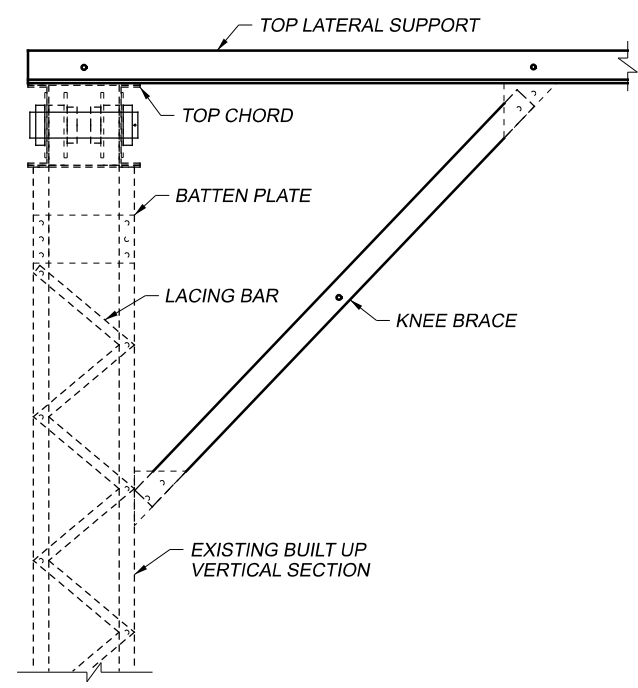


PLATE D DETAIL



TOP CHORD END ELEVATION

U2 SHOWN
U6 SIMILAR

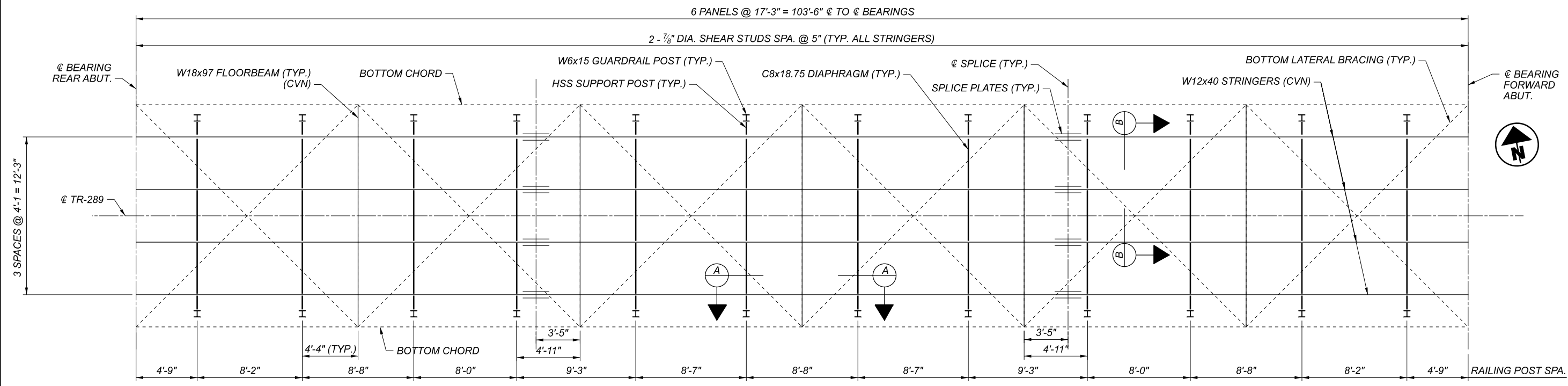


KNEE BRACE ELEVATION

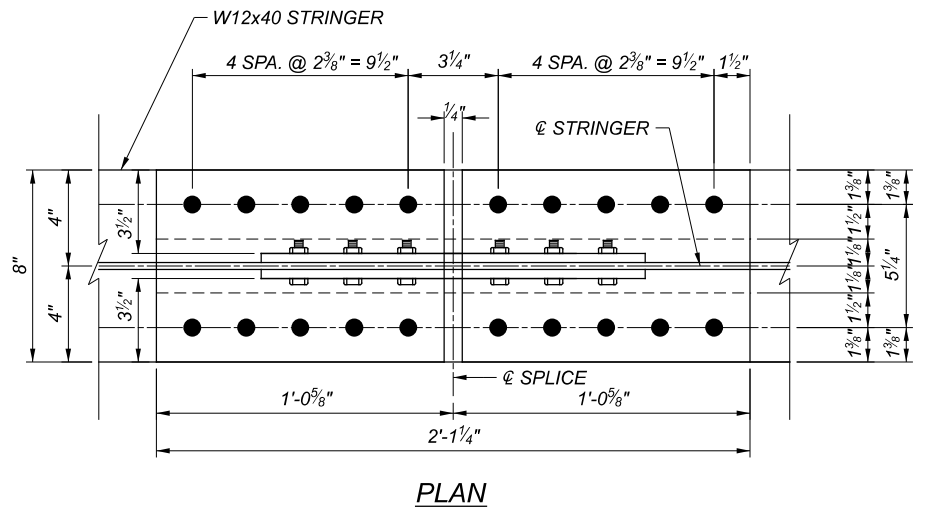
U3 SHOWN
U4 & U5 SIMILAR



SFN	4131126
DESIGN AGENCY	
DESIGNER/CHECKER	JMM P.JL
REVIEWER	NCK 01/26/24
PROJECT ID	115116
SUBSET	TOTAL
12	19
SHEET	TOTAL
P.17	P.24



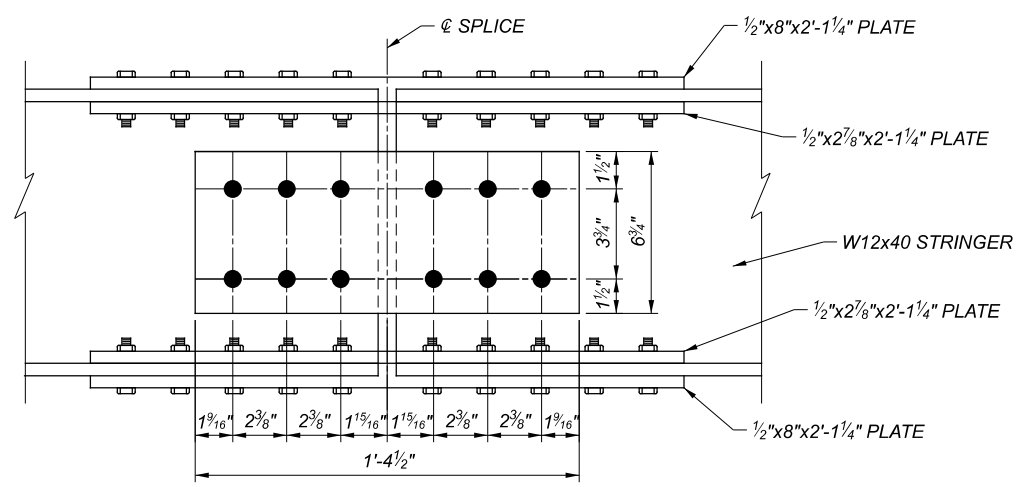
FRAMING PLAN - FLOOR SYSTEM AND BOTTOM OF TRUSS



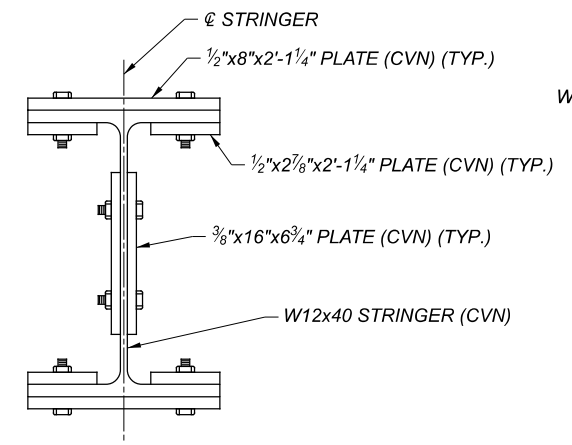
PLAN

NOTES:

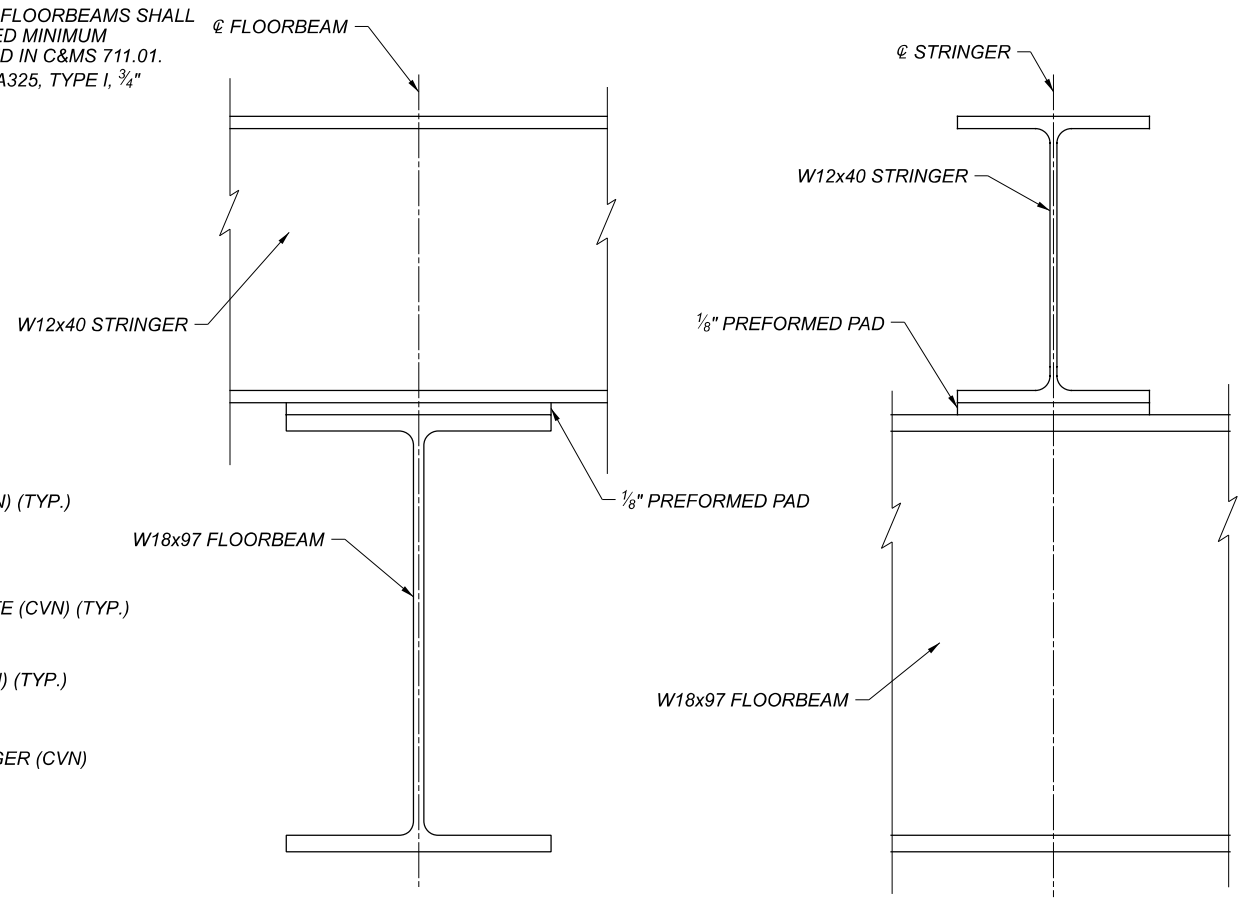
1. ALL PROPOSED STRINGERS, SPLICE PLATES, AND FLOORBEAMS SHALL BE DESIGNATED (CVN), AND SHALL MEET SPECIFIED MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN C&MS 711.01.
2. ALL SPLICE BOLTS SHALL BE ASTM F3125, GRADE A325, TYPE I, 3/4" DIAMETER WITH 1/8" DIAMETER HOLES.



ELEVATION



TYPICAL SECTION - STRINGER FIELD SPLICE DETAILS

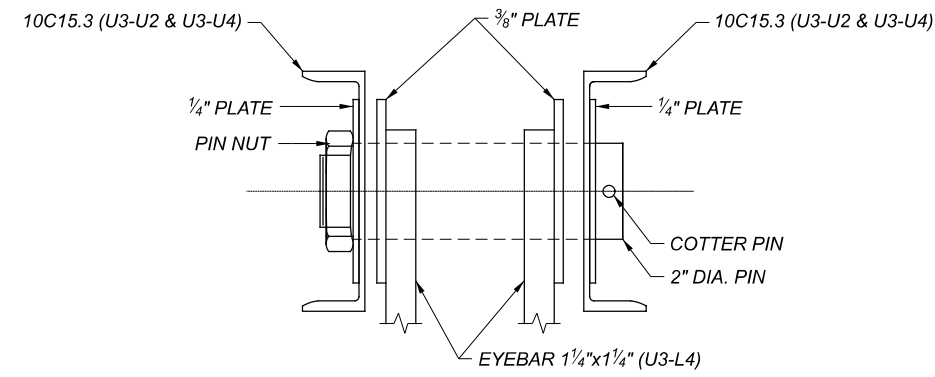


SECTION A-A

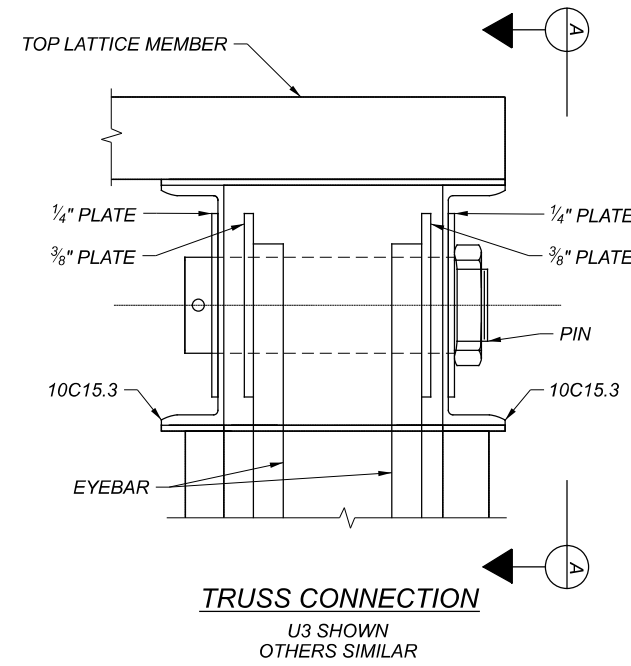
SECTION B-B

FRAMING PLAN (BOTTOM)
 BRIDGE NO. JEF-T289-0006
 T.R. 289 OVER YELLOW CREEK

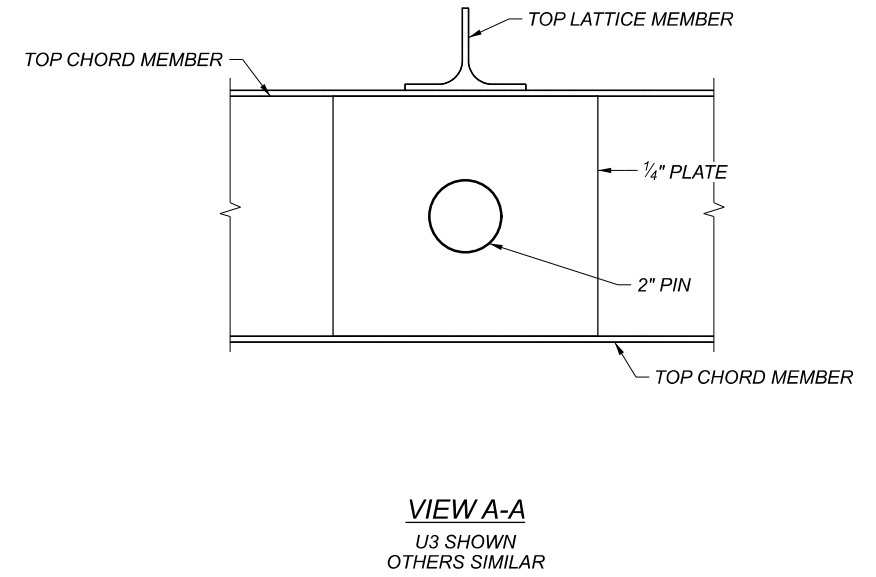
SFN	4131126
DESIGN AGENCY	Michael Baker INTERNATIONAL
DESIGNER/CHECKER	MS PJL
REVIEWER	NCK 01/26/24
PROJECT ID	115116
SUBSET	TOTAL
13	19
SHEET	TOTAL
P.18	P.24



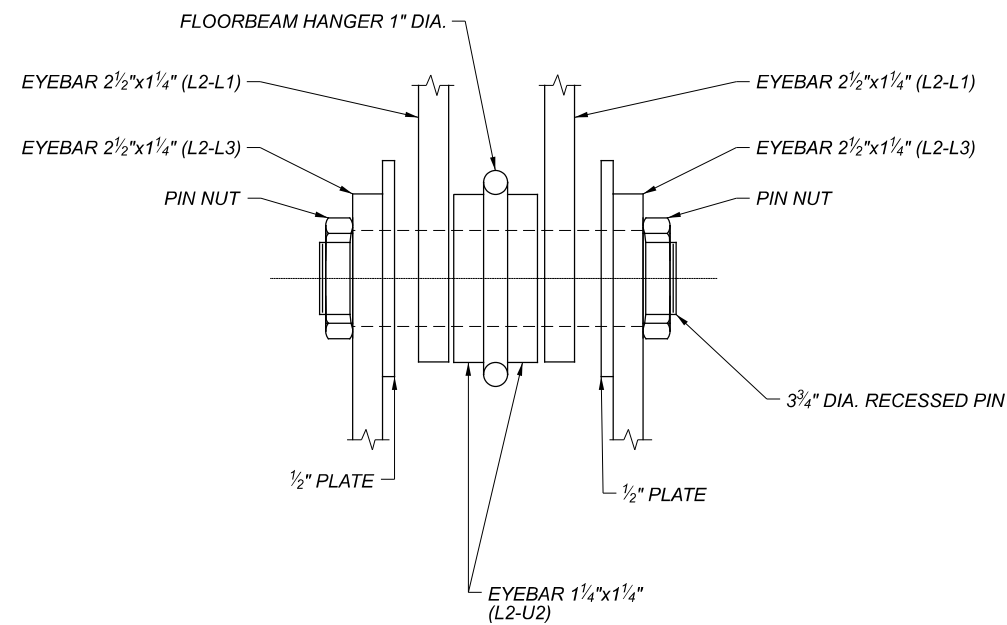
U3 PIN PACKING DIAGRAM - PLAN VIEW



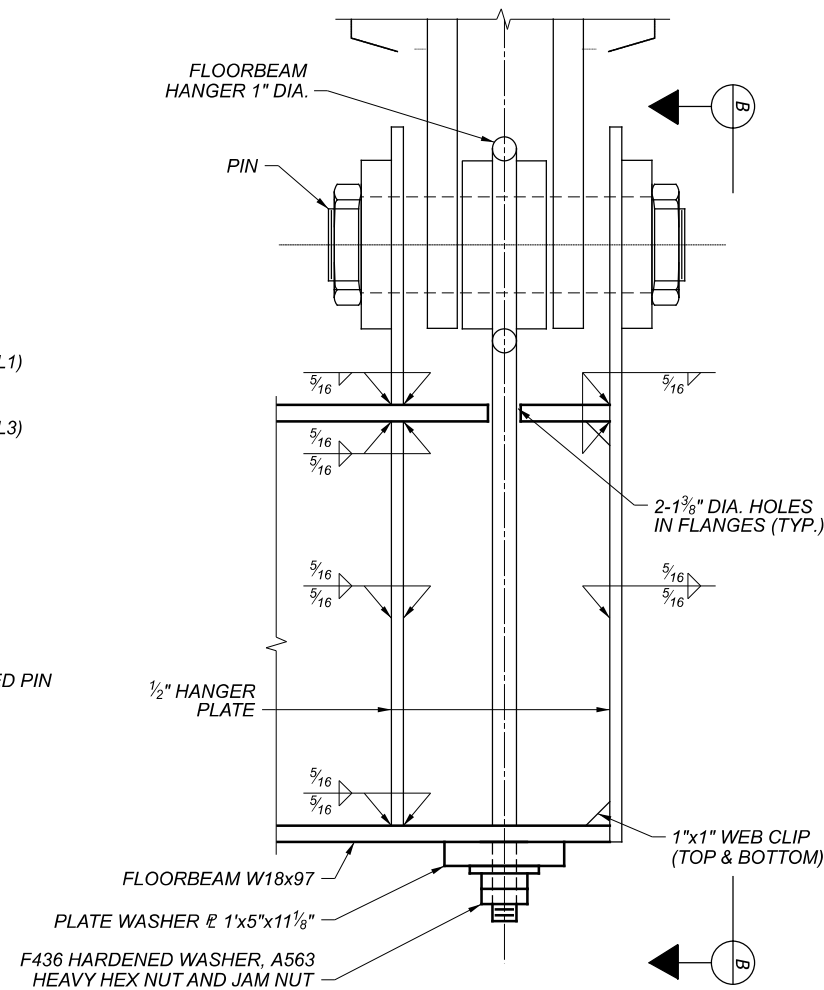
TRUSS CONNECTION
 U3 SHOWN
 OTHERS SIMILAR



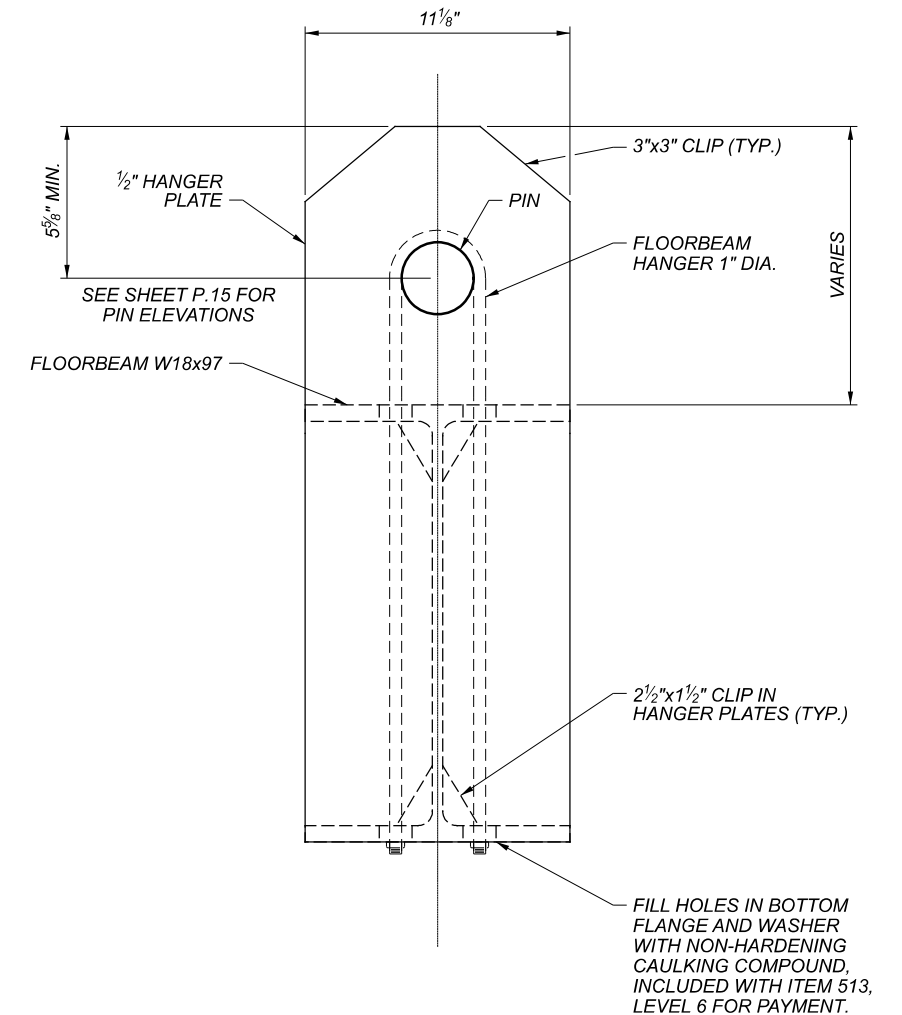
VIEW A-A
 U3 SHOWN
 OTHERS SIMILAR



L2 PIN PACKING DIAGRAM - PLAN VIEW



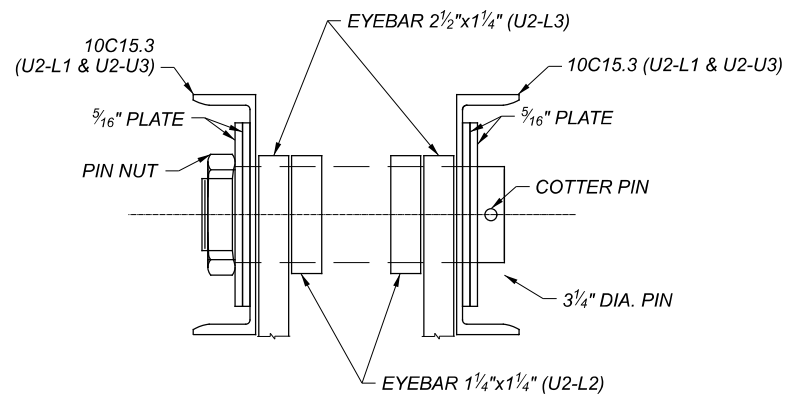
FLOORBEAM CONNECTION
 L2 SHOWN
 OTHERS SIMILAR



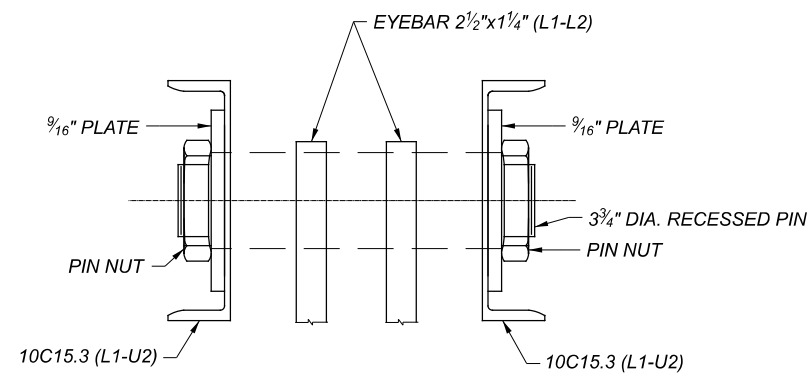
VIEW B-B
 L2 SHOWN
 OTHERS SIMILAR

SFN	4131126
DESIGN AGENCY	
DESIGNER/CHECKER	MS P.J.L.
REVIEWER	NCK 01/26/24
PROJECT ID	115116
SUBSET	14 19
SHEET	P.19 P.24

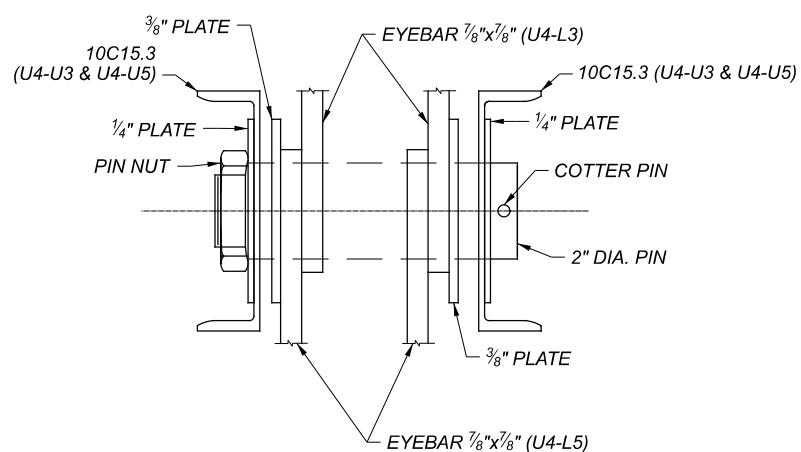
FILL HOLES IN BOTTOM FLANGE AND WASHER WITH NON-HARDENING CAULKING COMPOUND, INCLUDED WITH ITEM 513, LEVEL 6 FOR PAYMENT.



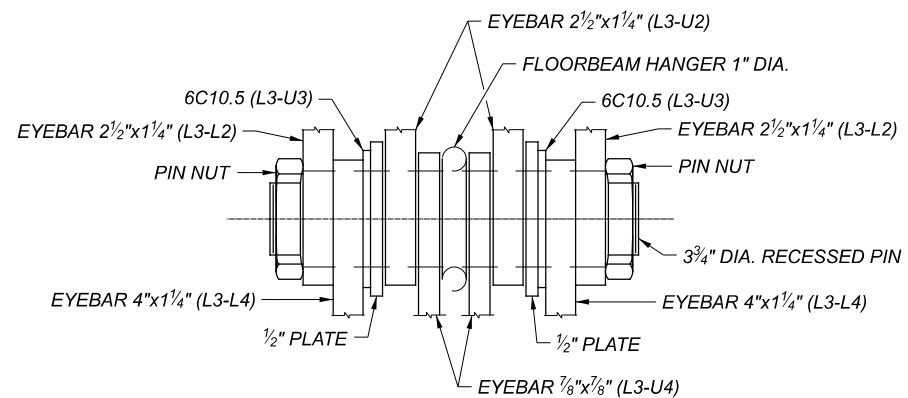
U2 PIN PACKING DIAGRAM - PLAN VIEW



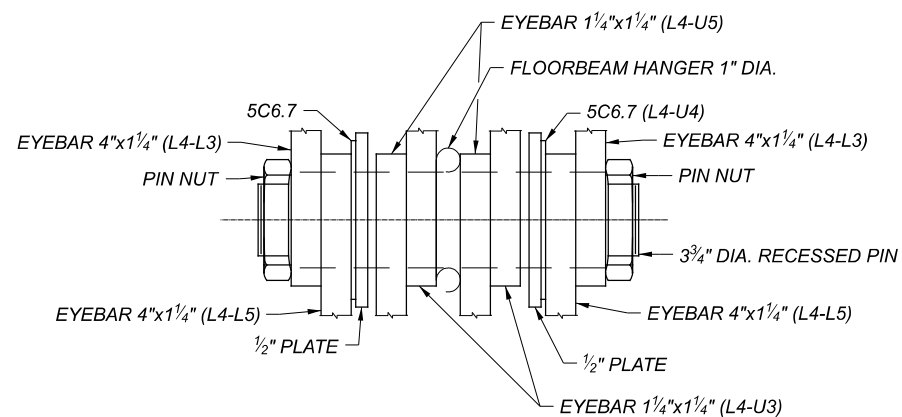
L1 PIN PACKING DIAGRAM - PLAN VIEW



U4 PIN PACKING DIAGRAM - PLAN VIEW

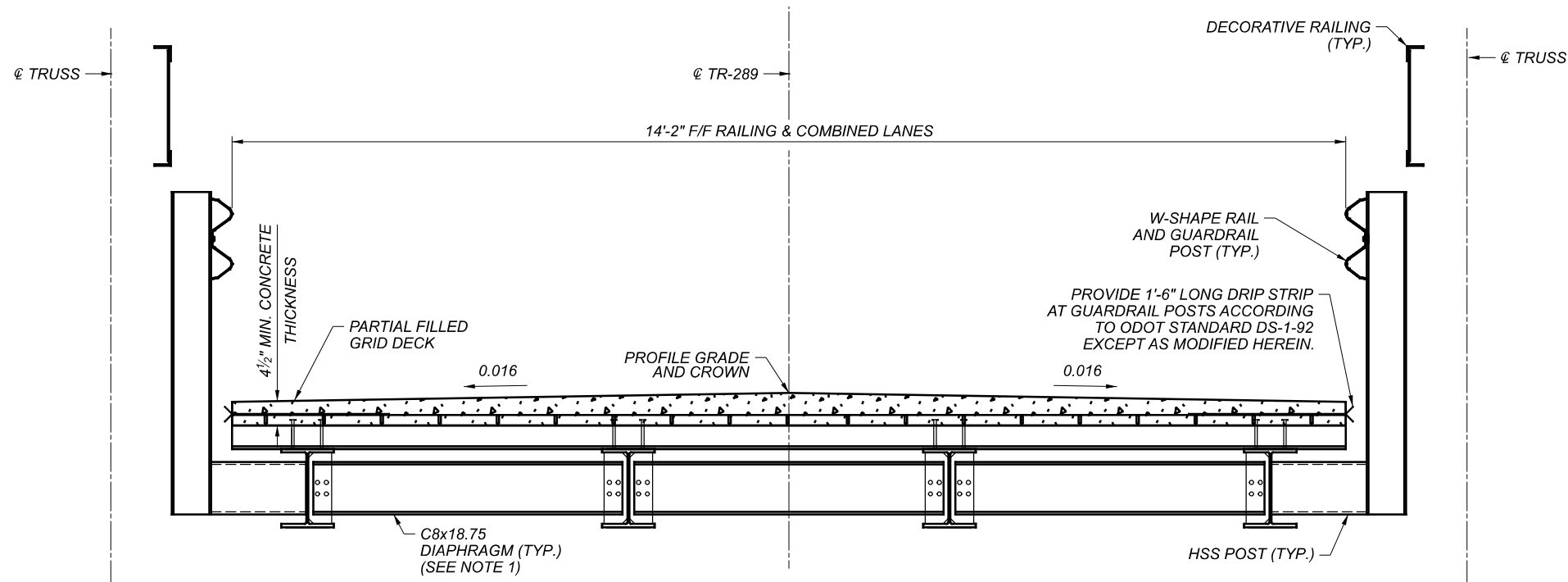


L3 PIN PACKING DIAGRAM - PLAN VIEW

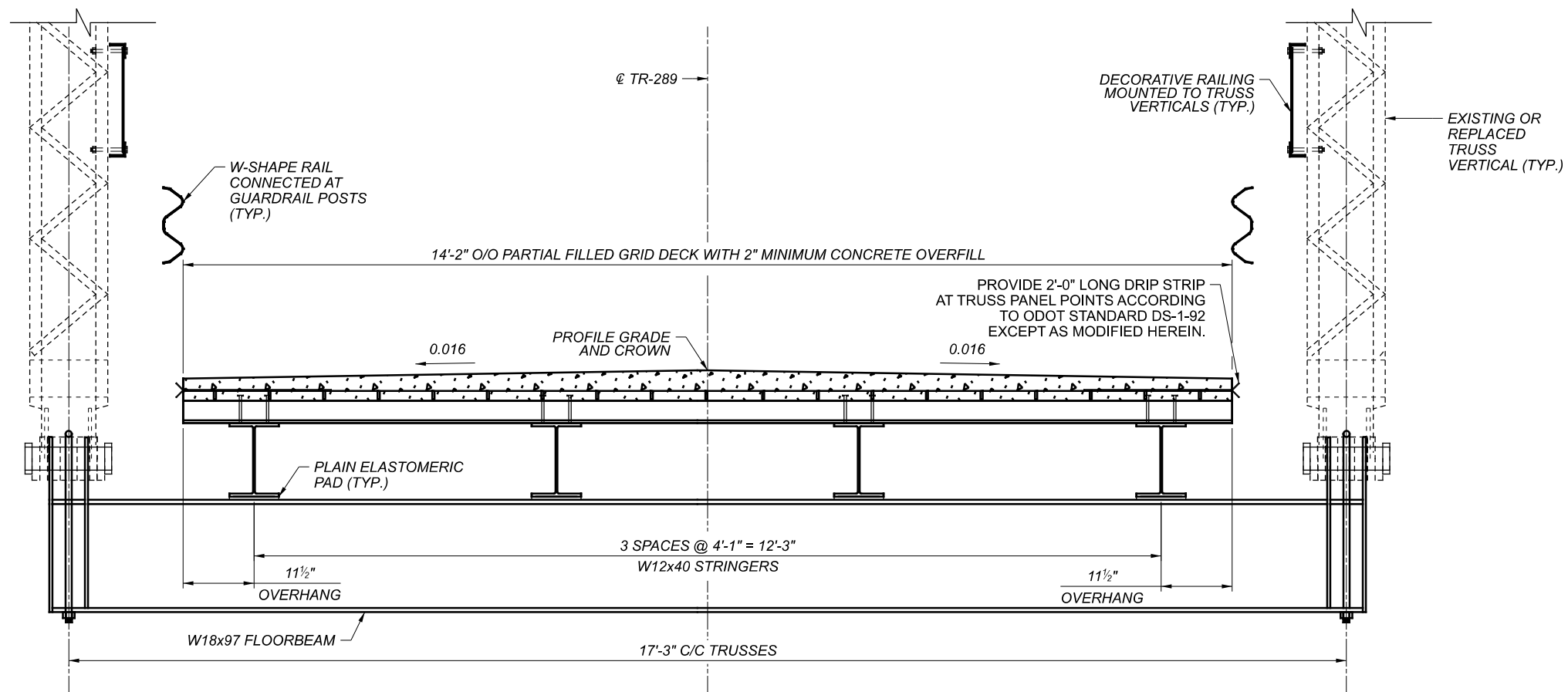


L4 PIN PACKING DIAGRAM - PLAN VIEW

PROPOSED PIN ELEVATIONS	
LOCATION	PIN CENTER
L2	746.62
L3	746.61
L4	746.61
L5	746.60
L6	746.60



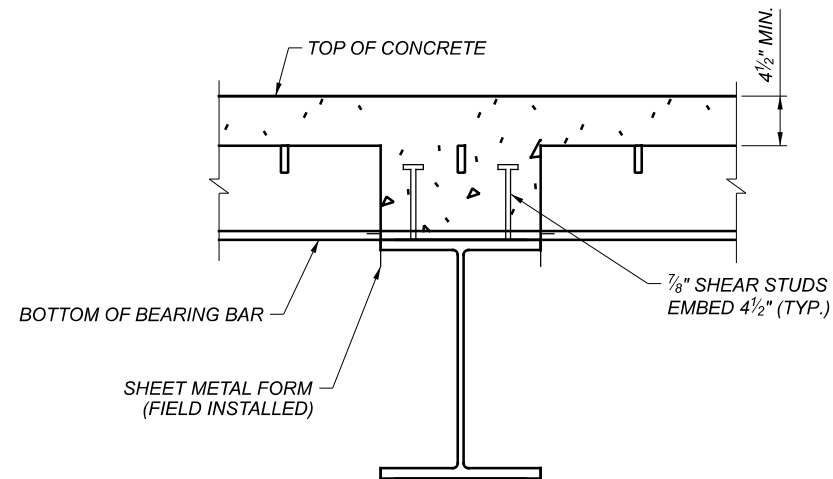
TRANSVERSE SECTION AT GUARDRAIL POST



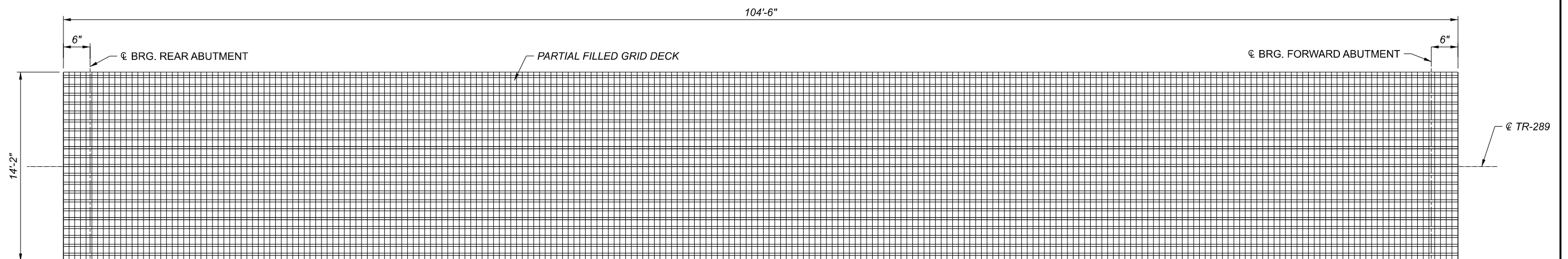
TRANSVERSE SECTION AT FLOORBEAM

NOTES:

- SEE STD. DWG. GSD-1-19 FOR ADDITIONAL DETAILS.



PARTIAL FILLED GRID DECK STRINGER CONNECTION



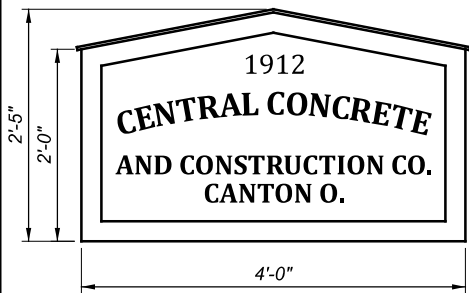
DECK PLAN



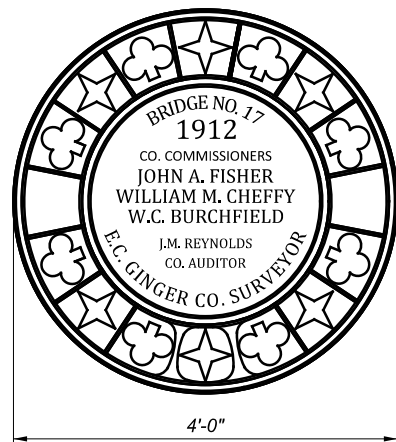
- NOTES:**
- ALL LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION OF THE PARTIALLY FILLED GRID DECK SHALL BE INCLUDED WITH ITEM 530, SPECIAL - STRUCTURES, MISC: PARTIAL FILLED GRID DECK FOR PAYMENT.

DECK DETAILS
 BRIDGE NO. JEF-T289-0006
 T.R. 289 OVER YELLOW CREEK

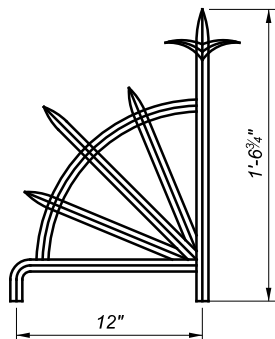
SFN	4131126
DESIGN AGENCY	
Michael Baker INTERNATIONAL	
DESIGNER	CHECKER
JMM	BCM
REVIEWER	
NCK	01/26/24
PROJECT ID	115116
SUBSET	TOTAL
17	19
SHEET	TOTAL
P.22	P.24



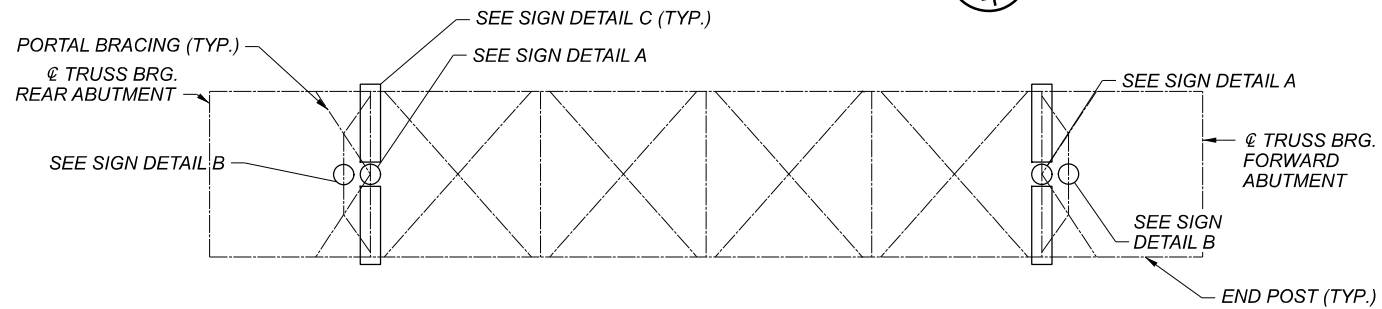
SIGN DETAIL A
BUILDER'S PLAQUE



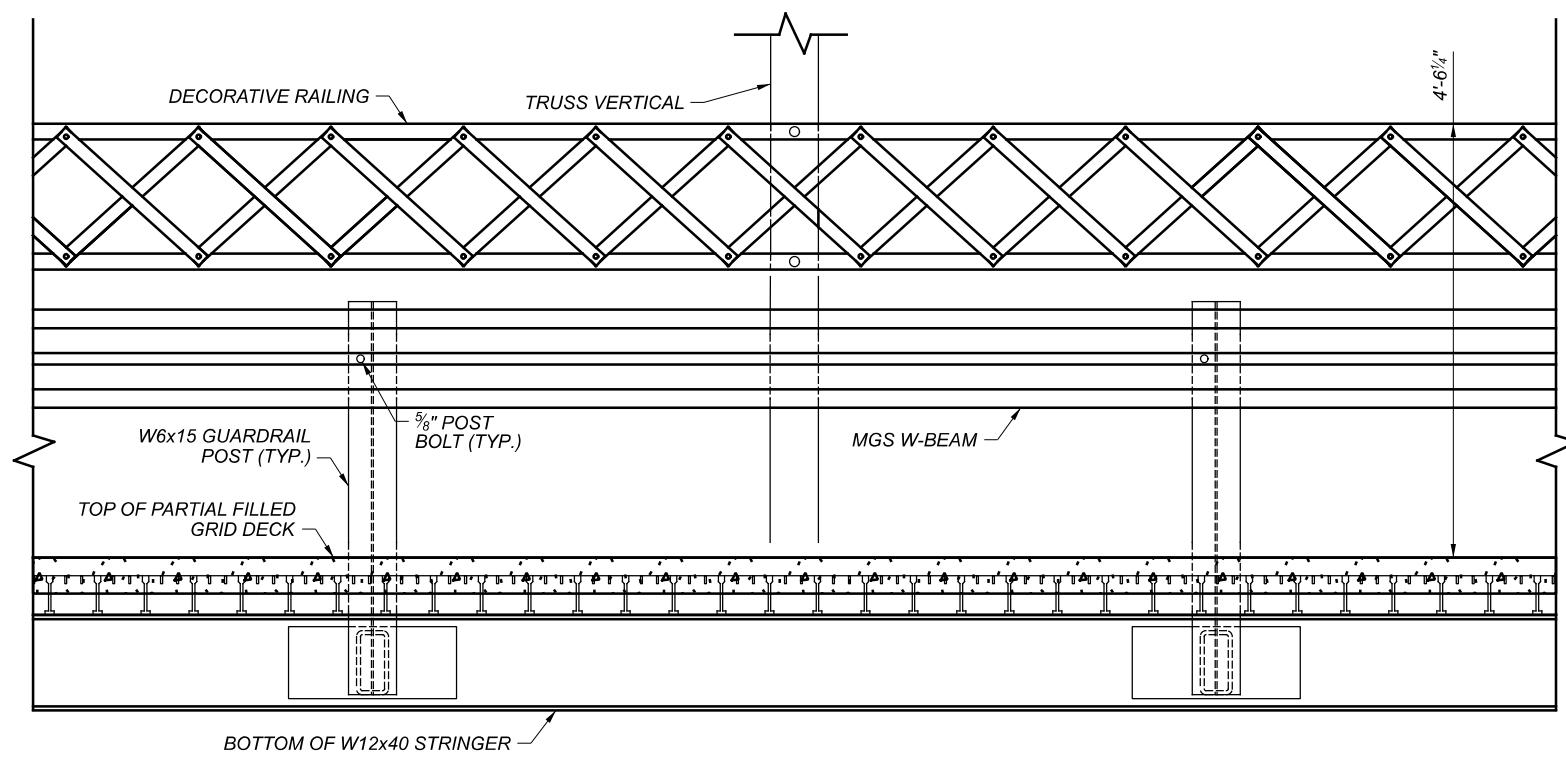
SIGN DETAIL B
COMMISSIONER'S PLAQUE



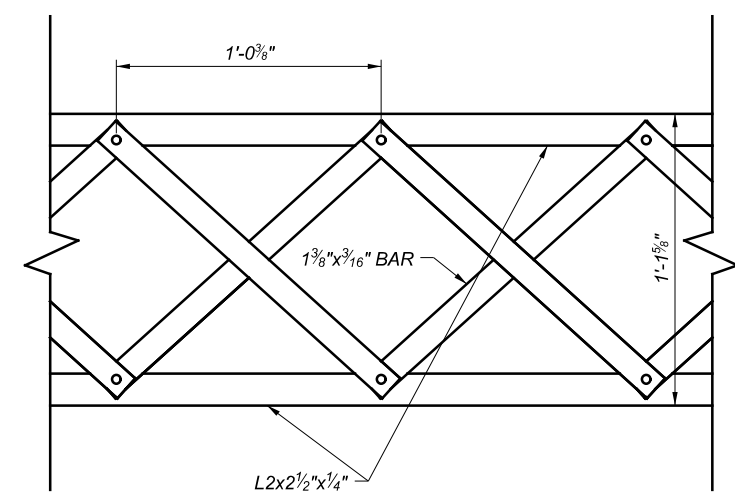
SIGN DETAIL C
PORTAL ORNAMENTATION



TRUSS SIGN LOCATION PLAN



RAILING ELEVATION
CHANNEL VERTICAL SHOWN
TRUSS AND FLOORBEAM NOT SHOWN FOR CLARITY



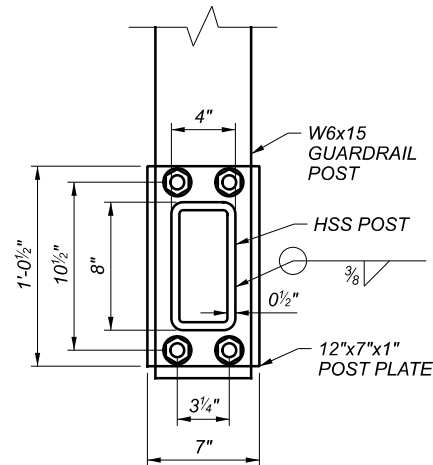
DECORATIVE RAILING TYPICAL DETAIL

JEF-T289-00.06

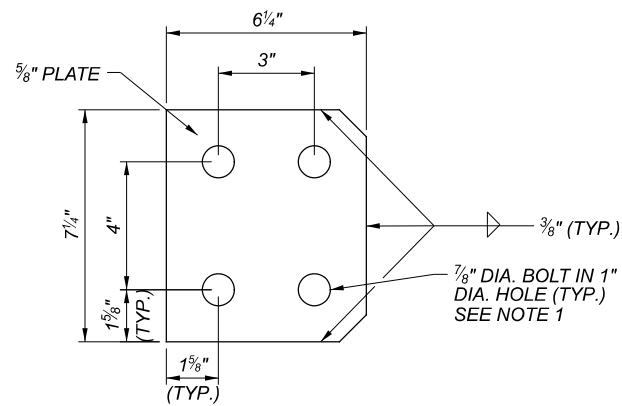
MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 2/12/2024 TIME: 4:29:48 PM USER: Molly.Brown
 p:\mb-us-pw\beniley.com\mb-us-pw-03\Documents\Columbus_OH01_P\Projects\County-Jefferson\115116\400-Engineering\Structures\SFN_4131126\Sheets\115116_SF_N_4131126_SM001.dgn

MISCELLANEOUS DETAILS
 BRIDGE NO. JEF-T289-0006
 T.R. 289 OVER YELLOW CREEK

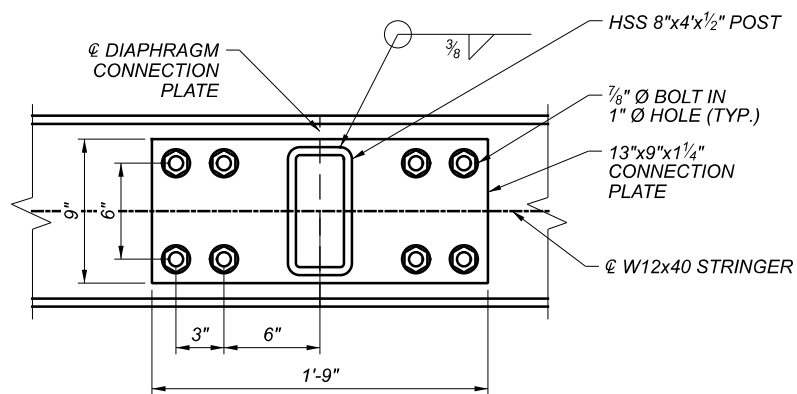
SFN	4131126
DESIGN AGENCY	
DESIGNER	Michael Baker INTERNATIONAL
CHECKER	
REVIEWER	P.J.L.
DATE	01/26/24
PROJECT ID	115116
SUBSET	TOTAL
18	19
SHEET	TOTAL
P.23	P.24



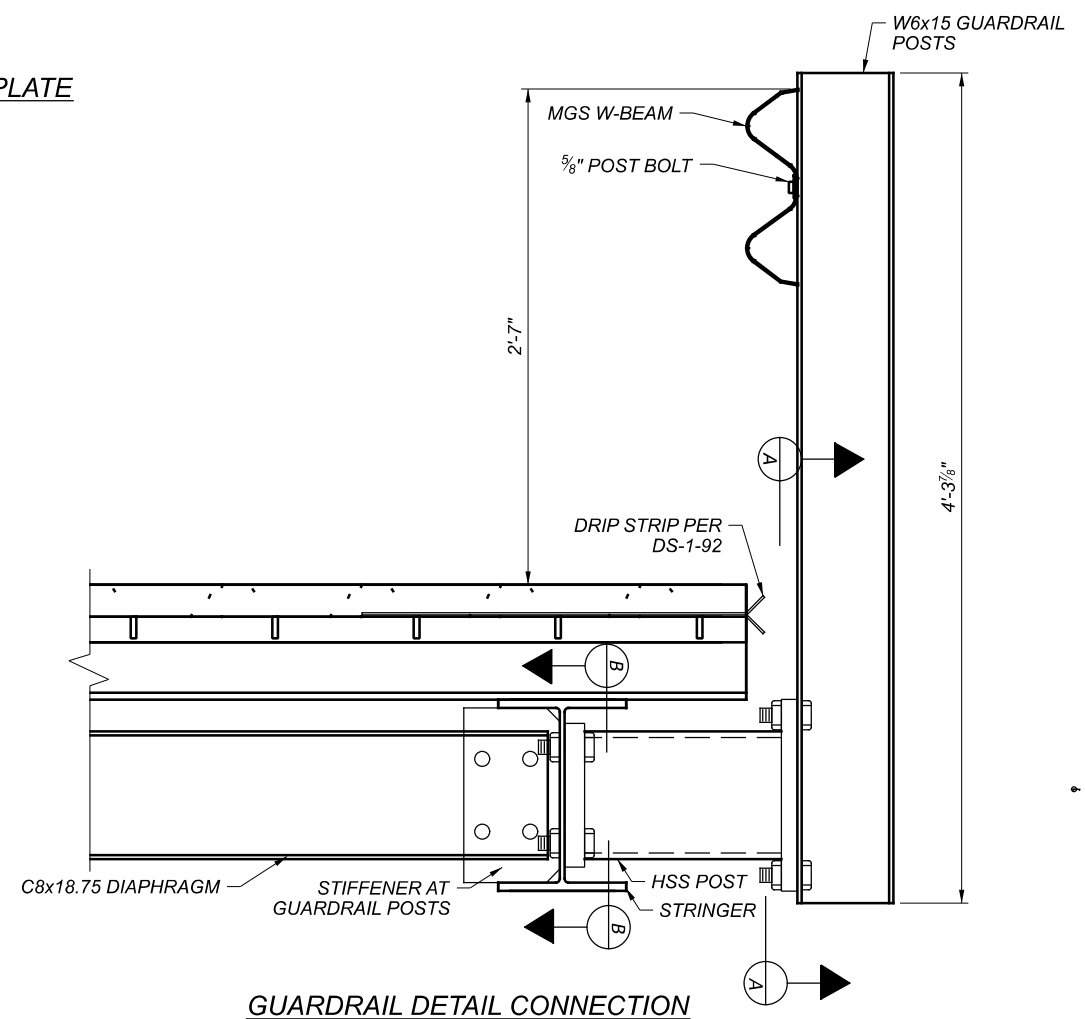
GUARDRAIL CONNECTION
SECTION A-A



DIAPHRAGM CONNECTION PLATE



GUARDRAIL CONNECTION
SECTION B-B



GUARDRAIL DETAIL CONNECTION

NOTES

1. ALL GUARDRAIL AND DIAPHRAGM CONNECTION BOLTS SHALL BE ASTM F3125, GRADE A325, TYPE 1, 7/8" DIAMETER WITH 1" DIAMETER HOLES.

SFN	4131126
DESIGN AGENCY	
DESIGNER	Michael Baker INTERNATIONAL
CHECKER	
REVIEWER	
PROJECT ID	115116
SUBSET	TOTAL
19	19
SHEET	TOTAL
P.24	P.24