

DESIGN DATA

MATERIAL PROPERTIES:
 CONCRETE MASONRY, SUPERSTRUCTURE $f'_c = 4,000$ PSI
 CONCRETE MASONRY, ALL OTHERS $f'_c = 3,500$ PSI
 HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 $f_y = 60,000$ PSI
 HIGH STRENGTH STRUCTURAL STEEL
 ASTM A847, ASTM A588, ASTM A606, $f_y = 50$ KSI
 ASTM A709, OR ASTM A242 $f_y = 36$ KSI
 STRUCTURAL CARBON STEEL ASTM A36 $f_y = 36$ KSI

LIVE LOAD:

90 PSF PEDESTRIAN LOAD
 20,000 LB VEHICLE LOAD (H-10)

WIND LOAD:

WIND LOADS PER AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES

FOUNDATION DATA:

ABUTMENTS TO BE SUPPORTED ON HP 10x42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 35'-0" LONG AT SOUTH ABUTMENT. ESTIMATED 70'-0" LONG AT NORTH ABUTMENT.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC DATA:

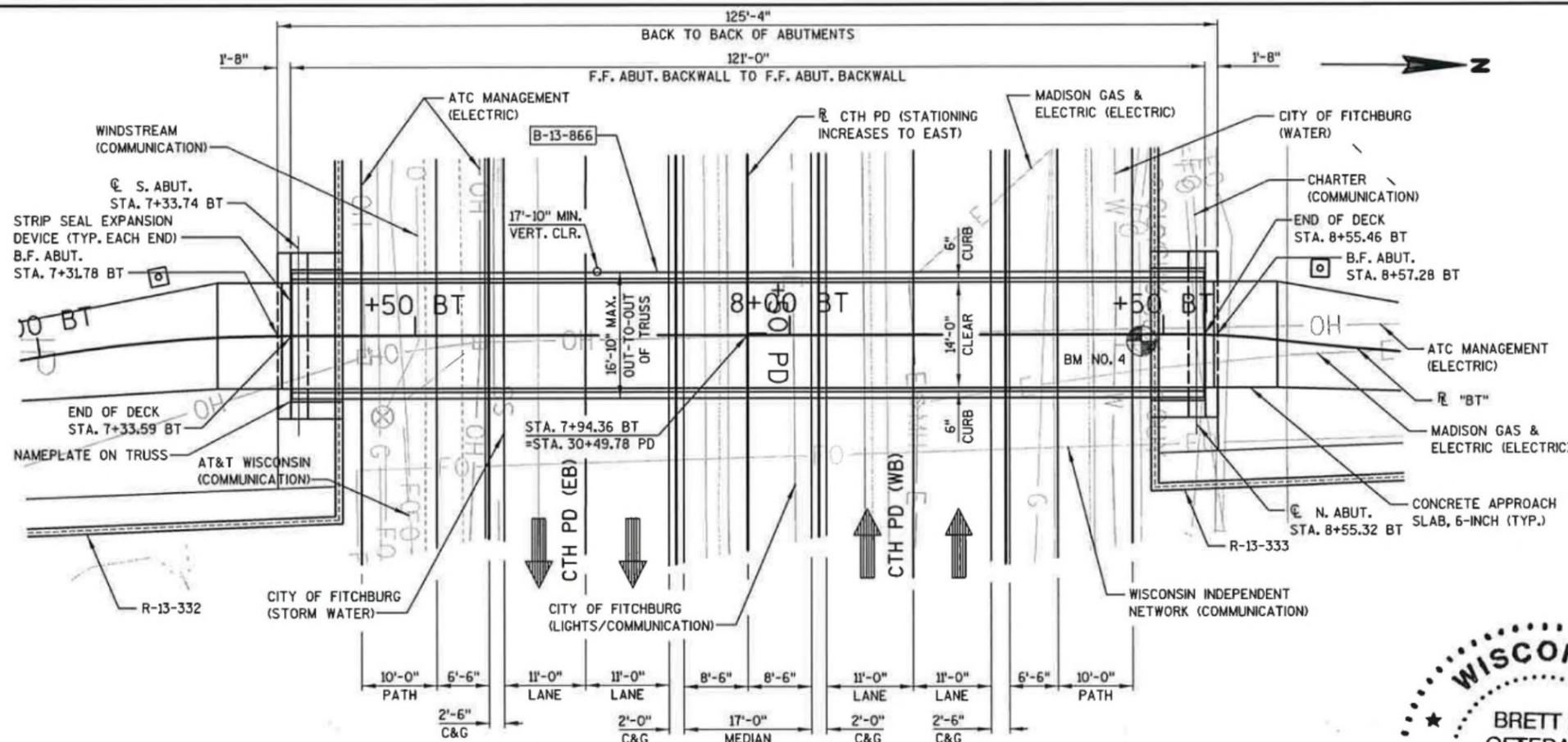
CTH PD (MCKEE ROAD)
 AADT: 29,900 (2020)
 AADT: 32,200 (2040)
 DESIGN SPEED: 45 MPH

LIST OF DRAWINGS

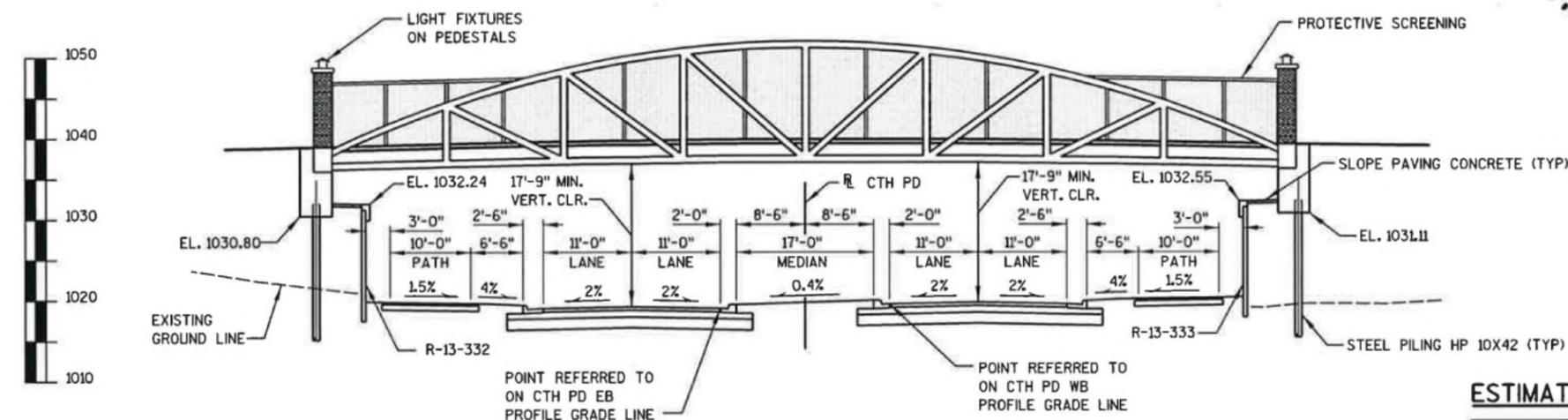
1. GENERAL PLAN
2. CROSS SECTION, GENERAL NOTES & DETAILS
3. SUBSURFACE EXPLORATION
4. SOUTH ABUTMENT
5. SOUTH ABUTMENT DETAILS
6. NORTH ABUTMENT
7. NORTH ABUTMENT DETAILS
8. ABUTMENT DETAILS
9. SUPERSTRUCTURE ELEVATIONS & AESTHETIC DETAILS
10. EXPANSION DEVICES
11. PROTECTIVE SCREENING DETAILS

DESIGN CONSULTANT CONTACT:
 KYLE BETH (608) 251-4843

BRIDGE OFFICE CONTACT:
 WILLIAM DREHER (608) 256-8489



PLAN
 (SINGLE SPAN PREFABRICATED STEEL TRUSS)



ELEVATION
 (LOOKING WEST)

BENCHMARKS

NO.	STATION	DESCRIPTION	ELEV.
5	27+19.42 PD, 75.02' LT	TOP NUT OF FIRE HYDRANT	1027.67
4	30+51.62 PD, 52.85' LT	TOP NUT OF FIRE HYDRANT	1022.34
3	34+53.47 PD, 53.87' LT	TOP NUT OF FIRE HYDRANT	1024.46

ESTIMATED STEEL TRUSS BRIDGE REACTIONS

LOAD TYPE	P (LBS)	H (LBS)	L (LBS)
DEAD LOAD	58,500	---	---
UNIFORM LIVE LOAD, 90 PSF	37,800	---	---
WIND UPLIFT, 20 PSF	-14,300/	---	---
WINDWARD/LEEWARD	-7,150	---	---
WIND HORIZ., WINDWARD/LEEWARD	-9,100/	24,700	---
SEISMIC	---	---	---
THERMAL	---	---	8,500

P = VERTICAL LOAD AT EACH BASE PLATE (4 PER BRIDGE).
 H = HORIZONTAL LOAD AT EACH SPAN END (2 PER BRIDGE).
 L = LONGITUDINAL LOAD AT FIXED BEARING (4 PER BRIDGE).
 NOTES:

1. VALUES IN THIS TABLE ARE ESTIMATES. ACTUAL VALUES SHALL BE PROVIDED BY PREFABRICATED BRIDGE MANUFACTURER.
2. "+" INDICATES DOWNWARD LOAD.
 "-" INDICATES UPWARD LOAD.

NO.	DATE	REVISION	BY
910 WEST WINGRA DRIVE MADISON, WISCONSIN 53715 (608)-251-4843 (608) 251-8655 FAX WWW.STRAND.COM			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED		DATE	
CHIEF STRUCTURES DESIGN ENGINEER			
STRUCTURE B-13-866			
BADGER STATE TRAIL OVER MCKEE ROAD			
COUNTY	DANE	TOWN/CITY/VILLAGE	FITCHBURG
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS			
DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
KPB	BMO	DTH	BMO
GENERAL PLAN			SHEET 1 OF 11

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS NOTED OTHERWISE.

THE TRUSS SHALL BE ANCHORED TO THE ABUTMENTS IN A MANNER TO:
 - ALLOW THERMAL MOVEMENTS ALONG C OF THE BIKE PATH.
 - PREVENT HORIZONTAL TRANSLATION OF THE SUPERSTRUCTURE PERPENDICULAR TO THE C OF THE BIKE PATH.

THE TRUSS SHALL BE CAMBERED AN AMOUNT EQUAL TO THE PROFILE GRADE LINE PLUS AN AMOUNT TO OFFSET THE CALCULATED DEAD LOAD DEFLECTION.

PROTECTIVE SCREENING, HANDRAIL, TUBE STEEL RAILS, CONCRETE DECK AND REINFORCEMENT, CURBS, BEARINGS, AND ANCHOR BOLTS ARE INCLUDED IN THE BID ITEM "PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE LRFD B-13-866".

THE PAINT COLOR FOR THE STEEL TRUSS SHALL BE PANTONE MATCHING SYSTEM COLOR PMS 364 (GREEN).

TRUSS AND CONCRETE DECK SHALL BE DESIGNED TO ACCOMODATE A 1 3/4 -INCH STRIP SEAL JOINT. THE TRUSS FABRICATOR SHALL COORDINATE WITH THE JOINT FABRICATOR TO OBTAIN NECESSARY JOINT AND ANCHORAGE DETAILS. SEE SHEET 10 FOR EXPANSION JOINT INFORMATION.

ALL ITEMS ASSOCIATED WITH THE BRIDGE LIGHTING ARE INCLUDED IN THE ROADWAY BID ITEMS.

TRUSS SHALL BE DESIGNED AS SIMPLE SPAN BETWEEN ABUTMENTS. TOP CHORD SHALL BE FABRICATED TO A PARABOLIC CURVE. THE TRUSS APPEARANCE SHALL RESEMBLE WHAT IS SHOWN IN THE ELEVATION VIEW ON SHT. 1.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE AND THE TOP AND FRONT FACE OF THE CURB.

WALLS R-13-332 AND R-13-333 WILL BE CONSTRUCTED CONCURRENTLY WITH BRIDGE B-13-866. CONSTRUCTION SEQUENCE FOR THE MSE WALL AND SOIL REINFORCEMENT MUST BE COORDINATED WITH ABUTMENT CONSTRUCTION.

FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M153 TYPES I, II OR III OR AASHTO DESIGNATION M213.

ANCHOR BOLTS, BEARINGS, AND THEIR LOCATION ON THE SUBSTRUCTURE UNITS SHALL BE PROVIDED BY THE BRIDGE MANUFACTURER AND INCLUDED IN THE BID ITEM "PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE LRFD B-13-866."

IF CROSS SECTION OF PEDESTRIAN BRIDGE DIFFERS FROM THAT SHOWN, THE ABUTMENT SHALL BE MODIFIED TO ACCOMODATE THE CHANGE. MODIFICATIONS TO THE ABUTMENTS SHALL BE APPROVED BY THE DESIGN ENGINEER.

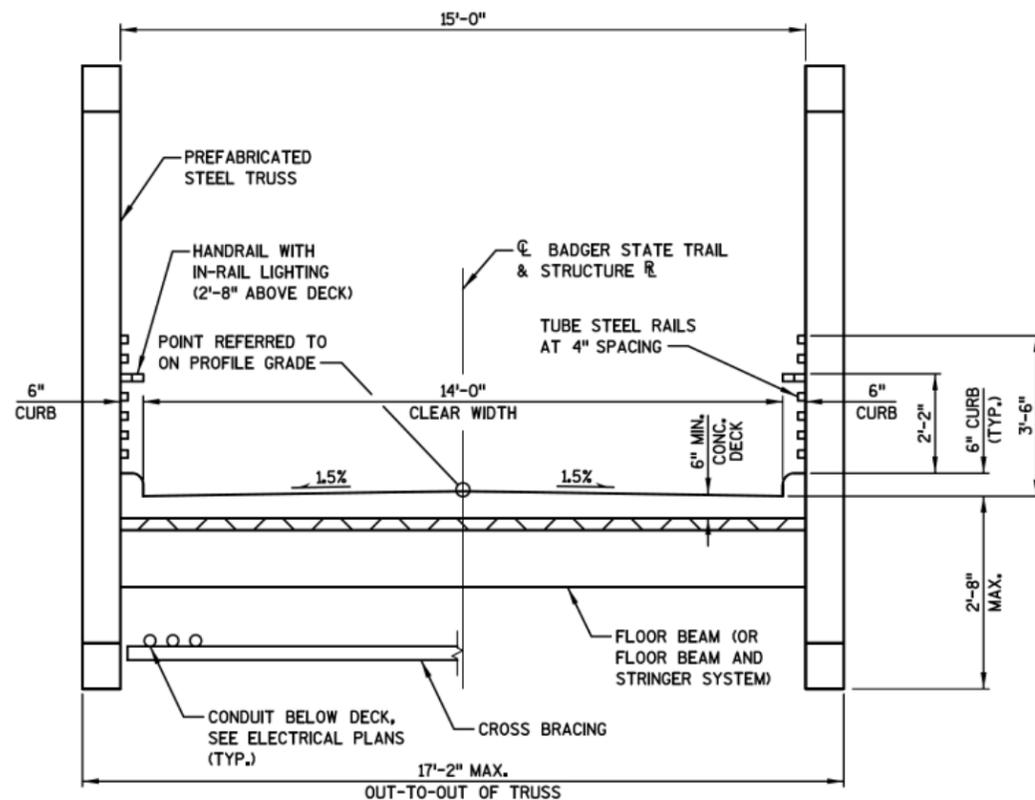
THE CONCRETE DECK SHALL BE DESIGNED AND REINFORCED TO SUPPORT DEAD AND LIVE LOADS WITHOUT CONTRIBUTION FROM THE DECK FORMING SYSTEM. REINFORCEMENT SHALL BE EPOXY COATED.

HANDRAIL ON PREFABRICATED STEEL TRUSS REQUIRES IN-RAIL LED LIGHTING. BRIDGE FABRICATOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO ACCOMODATE LIGHTING AND POWER SUPPLY. REFER TO ELECTRICAL PLAN AND DETAIL SHEETS IN ROADWAY PLANS.

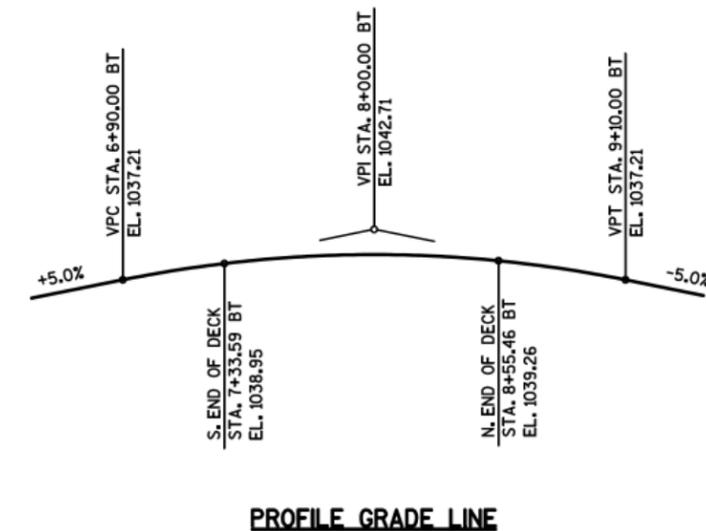
TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SUPERSTRUCTURE	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-13-866	L.S.	--	--	--	1
502.0100	CONCRETE MASONRY BRIDGES	C.Y.	32	32	--	64
502.3101	EXPANSION DEVICE B-13-866	L.F.	14	14	--	28
502.3200	PROTECTIVE SURFACE TREATMENT	S.Y.	--	--	221	221
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB.	1,390	1,390	--	2,780
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB.	1,150	1,150	--	2,300
506.8005.S	PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE LRFD B-13-866	L.S.	--	--	1	1
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	S.Y.	7	7	--	14
517.1000.001	PAINTING EPOXY SYSTEM STEEL TRUSS B-13-866	L.S.	--	--	1	1
517.1010.S.001	CONCRETE STAINING B-13-866	S.F.	356	356	--	712
517.1050.S.001	ARCHITECTURAL SURFACE TREATMENT B-13-866	S.F.	168	168	--	336
550.1100	PILING STEEL HP 10-INCH X 42 LB	L.F.	105	210	--	315
604.0400	SLOPE PAVING CONCRETE	S.Y.	8	8	--	16
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	L.F.	56	56	--	112
SPV.0165.154	ABUTMENT BACKWALL SOIL REINFORCEMENT	S.F.	180	180	--	360
SPV.0180.001	CONCRETE APPROACH SLAB, 6-INCH	S.Y.	13	13	--	26
NON-BID ITEMS						
	FILLER	SIZE				3/4"
	EXPANDED POLYSTYRENE	SIZE				1"

ALL ITEMS ARE CATEGORY 0020



CROSS SECTION THRU TRUSS STRUCTURE
(LOOKING NORTH)



PROFILE GRADE LINE

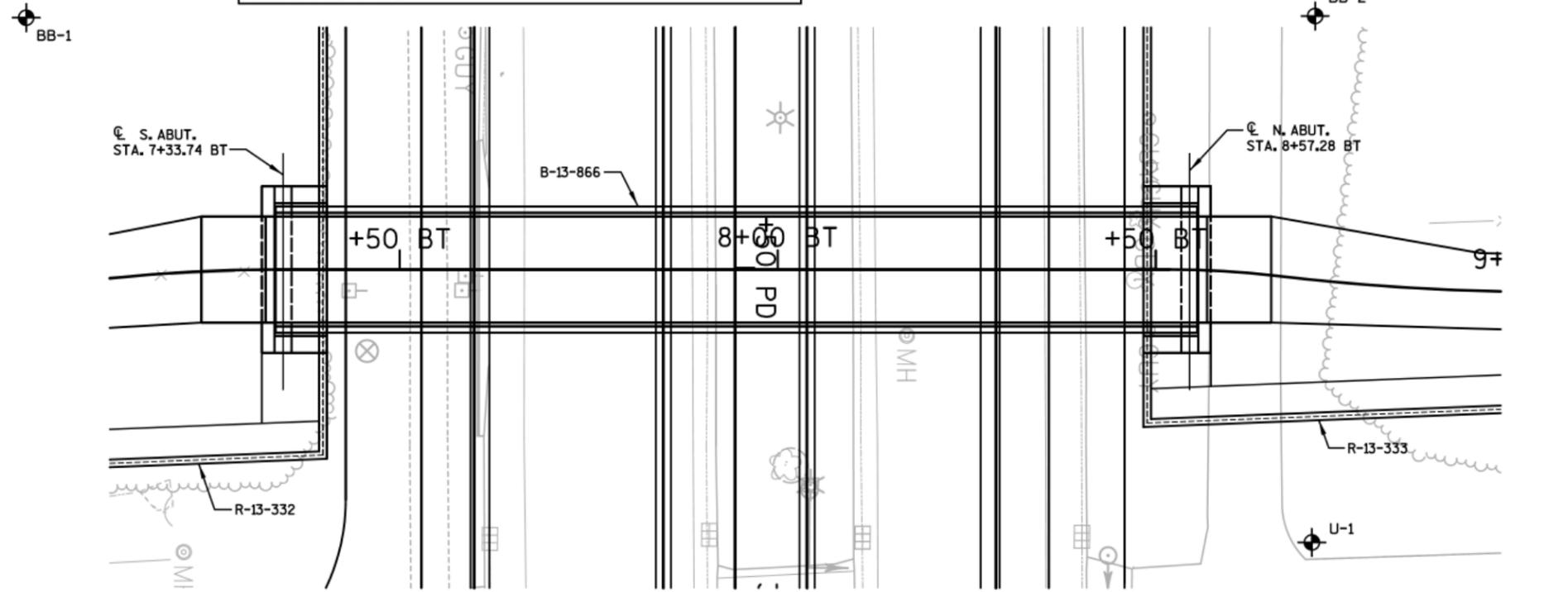
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NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-13-866			
DRAWN BY		DTH	PLANS CK'D. BMO
CROSS SECTION GENERAL NOTES & DETAILS			SHEET 2

BORING	DATE COMPLETED	NORTHING (Y)	EASTING (X)
BB-1	1/9/2019	461,131	800,468
BB-2	1/9/2019	461,301	800,467
U-1	11/27/2017	461,301	800,537

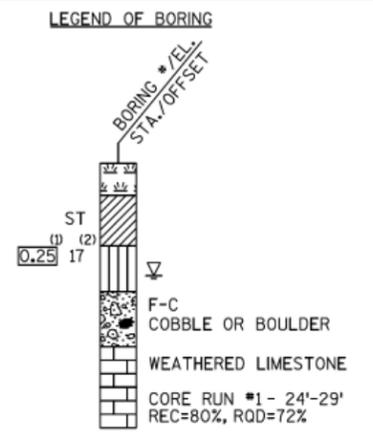
BORINGS COMPLETED BY: SOILS & ENGINEERING SERVICES, INC.
 REPORT COMPLETED BY: SOILS & ENGINEERING SERVICES, INC.
 ALL COORDINATES REFERENCED TO DANE COUNTY COORDINATE SYSTEM



STATE PROJECT NUMBER
5849-02-02

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/META



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)
 (2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

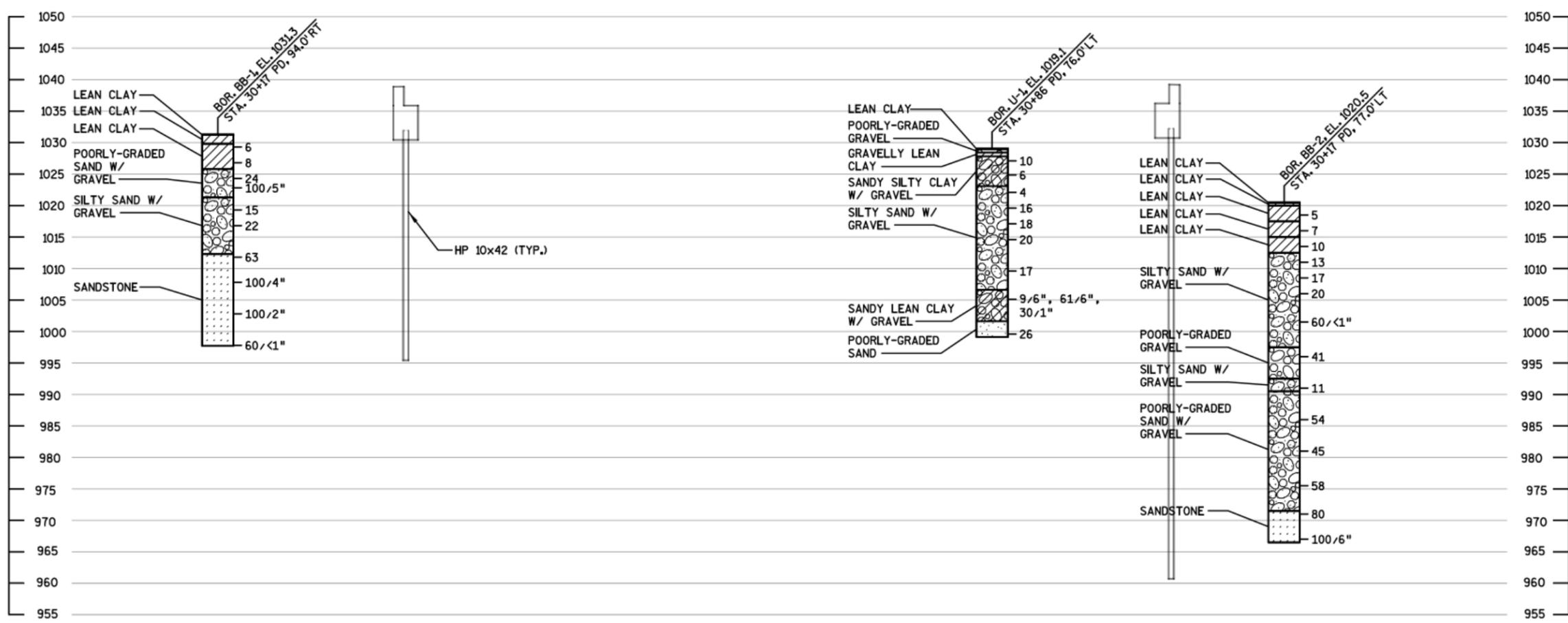
- ▽ AT TIME OF DRILLING
- ▽ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

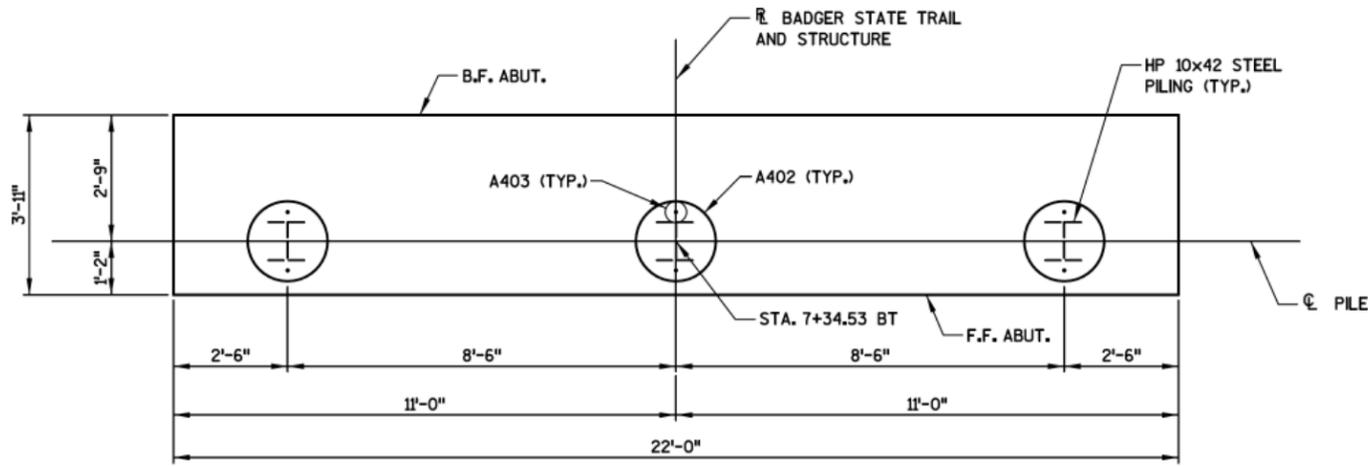


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STRUCTURE B-13-866			
DRAWN BY		DTH	PLANS CK'D. BMO
SUBSURFACE EXPLORATION			SHEET 3

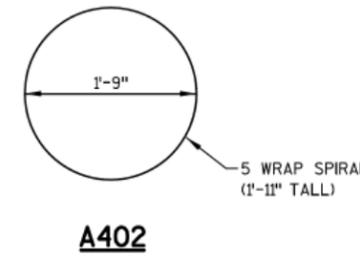
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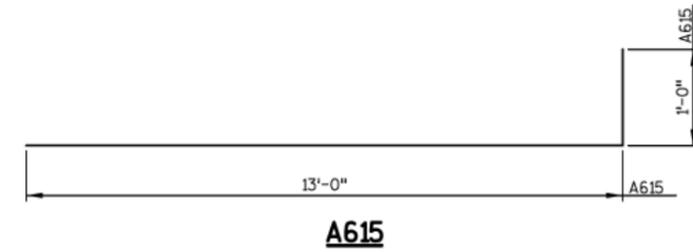
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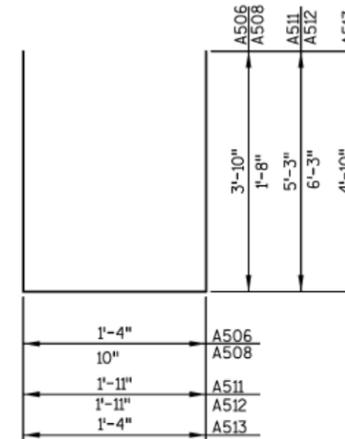
PILE PLAN



A402

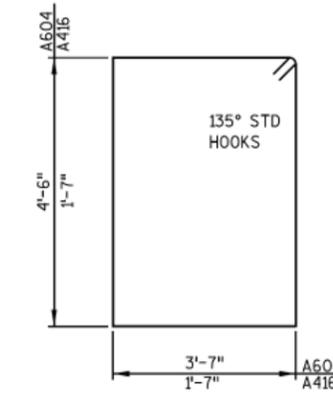


A615

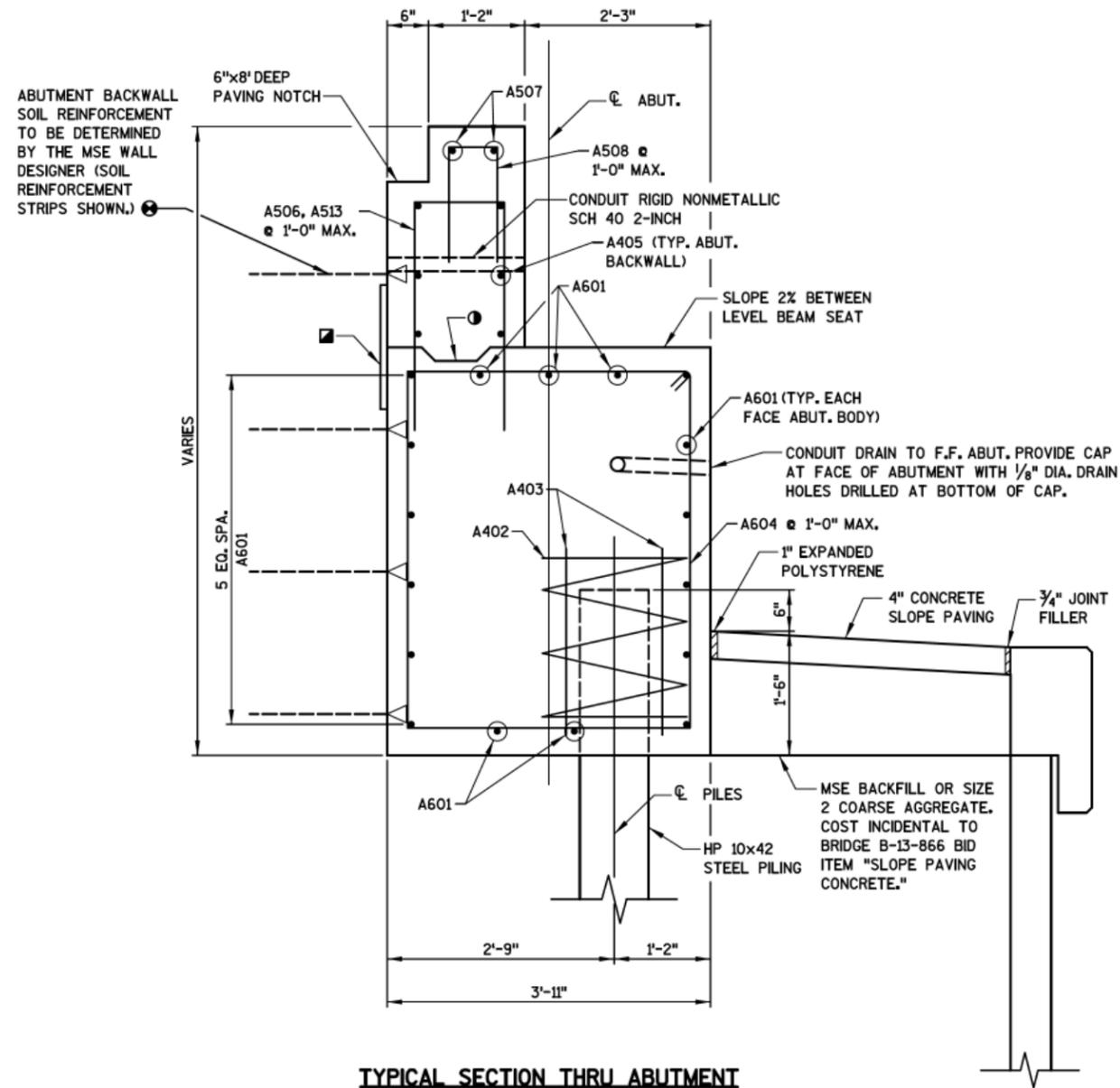


A506, A508, A511

A512, A513



A604, A416



TYPICAL SECTION THRU ABUTMENT

SOUTH ABUTMENT
BILL OF BARS

UNCOATED: 1,390 LBS
COATED: 1,150 LBS

BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
A601	17	21'-8"			BODY - HORIZONTAL - BTM., F.F., B.F., TOP
A402	3	28'-0"	X		BODY - PILES - SPIRAL
A403	6	2'-0"			BODY - PILES - VERTICAL
A604	23	17'-0"	X		BODY - STIRRUP - VERTICAL
A405	6	21'-8"		X	BACKWALL - HORIZONTAL - F.F., B.F.
A506	14	8'-9"	X	X	BACKWALL - TOP - VERTICAL
A507	2	21'-8"		X	BACKWALL - TOP - HORIZONTAL
A508	14	3'-11"	X	X	BACKWALL - TOP - VERTICAL
A409	8	6'-8"		X	CLOSURE WALL - VERTICAL
A410	24	8'-2"			CLOSURE WALL - VERTICAL
A511	4	12'-2"	X		CLOSURE WALLS - HORIZONTAL
A512	16	14'-2"	X	X	CLOSURE WALLS - HORIZONTAL
A513	10	10'-9"	X	X	BACKWALL - TOP - VERTICAL
A514	6	3'-8"		X	BACKWALL - TOP - HORIZONTAL
A615	16	13'-10"	X	X	PEDESTAL - VERTICAL
A416	20	6'-8"	X	X	PEDESTAL - HORIZONTAL

NOTE: THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE. DIMENSIONS FOR BENDING ARE OUT TO OUT OF BAR.

NOTES

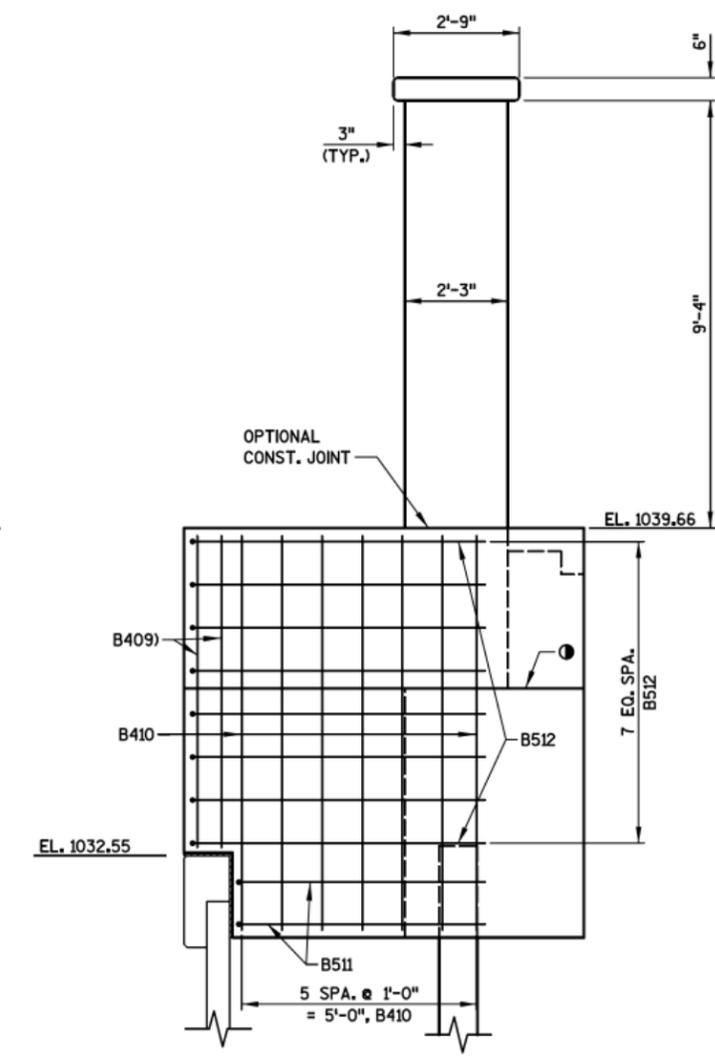
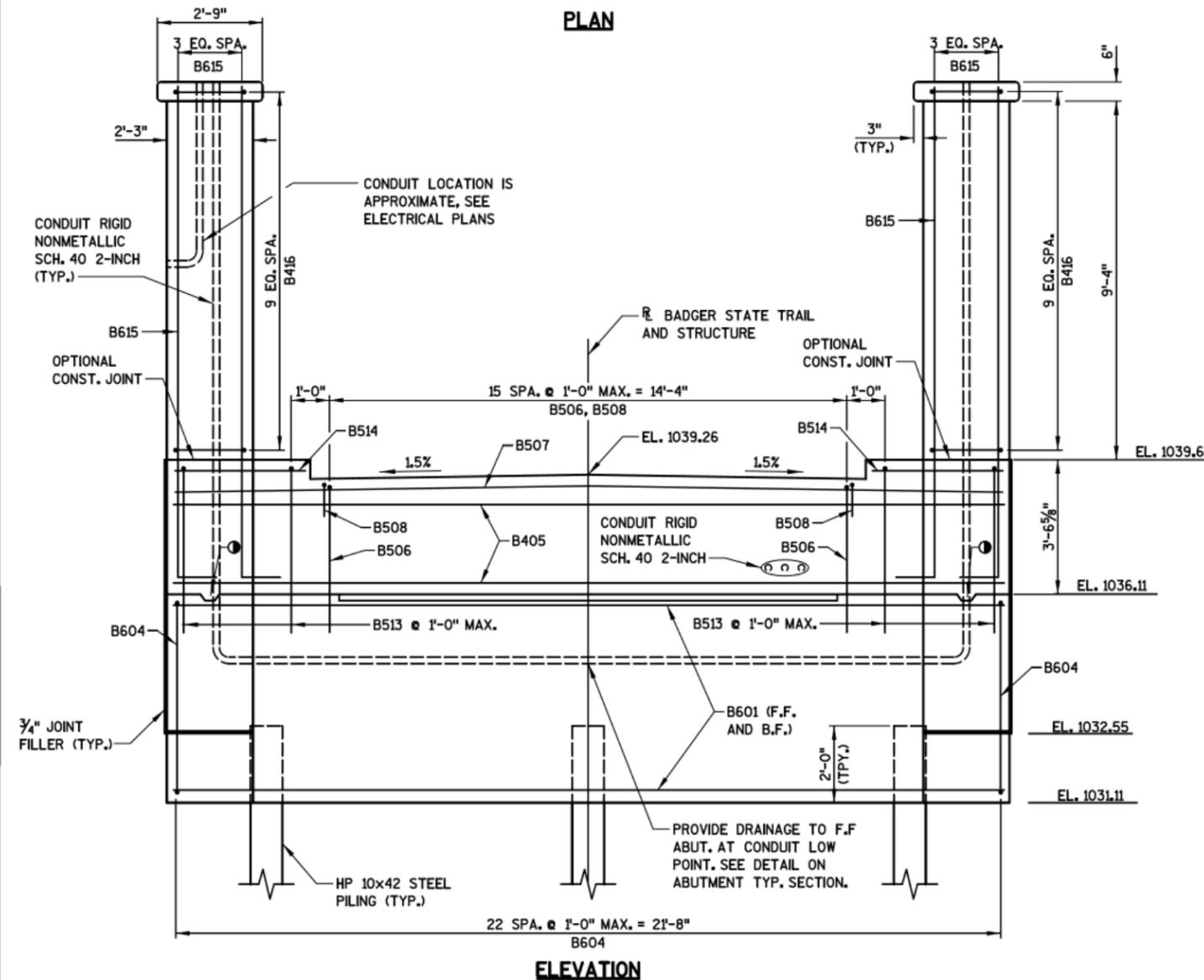
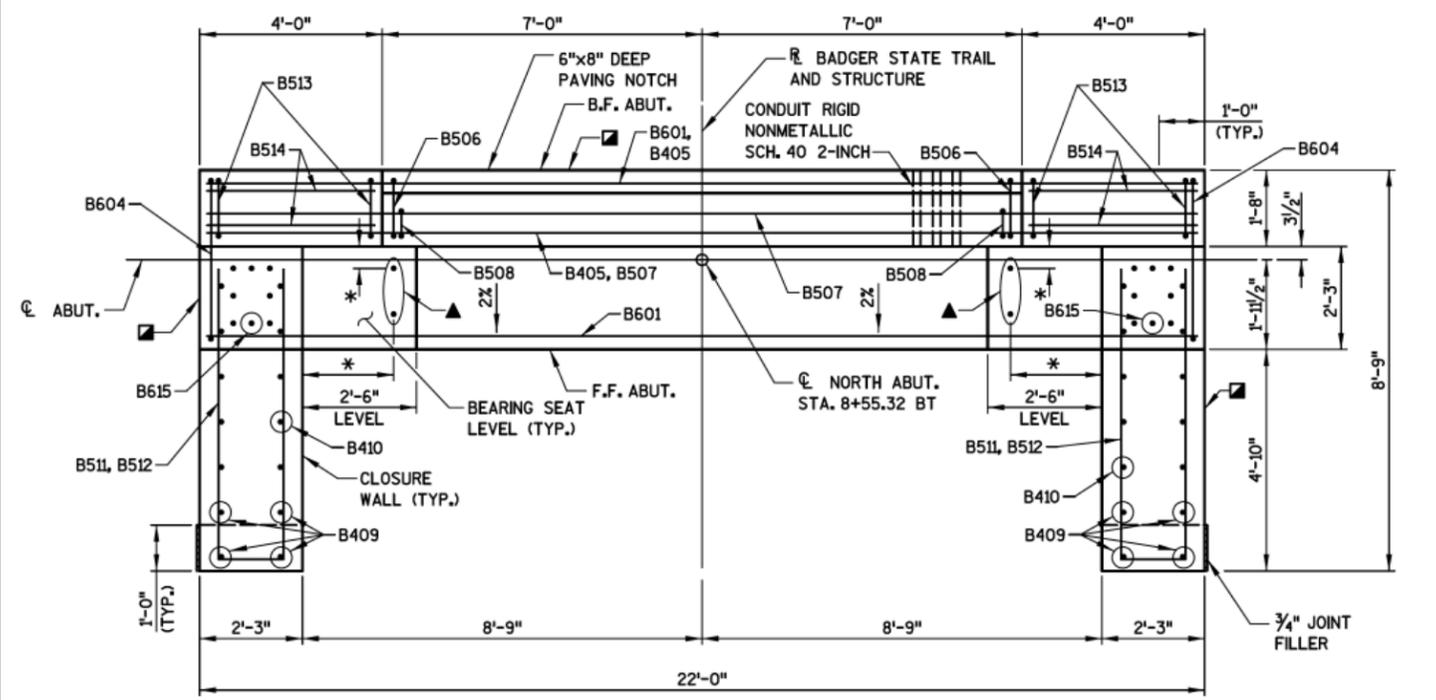
ABUTMENT TO BE SUPPORTED ON HP 10x42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE. ESTIMATED PILE LENGTH IS 35 FEET.

LEGEND

- 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.
- HORIZONTAL CONSTRUCTION JOINT KEYWAY FORMED BY A BEVELED 2"x6".
- UNFACTORED SUPERSTRUCTURE LATERAL LOADS TRANSFERRED TO THE ABUTMENT ARE TAKEN TO BE KIPS PER FOOT OF ABUTMENT LENGTH. THE VALUES ARE TO BE USED FOR THE LRFD DESIGN OF THE ABUTMENT BACKWALL SOIL REINFORCEMENT BY THE MSE WALL MANUFACTURER. THE FOLLOWING AASHTO LINE LOADS SHALL BE INCLUDED IN THE WALL DESIGN:

BR = 0.23 KLF WS = 0.33 KLF
TU = 0.77 KLF WL = 0.00 KLF

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-13-866			
DRAWN BY		DTH	PLANS CK'D. BMO
SOUTH ABUTMENT DETAILS			SHEET 5



NOTES

- SEE SHEET 8 FOR PILE SPLICE DETAILS.
- SEE SHEET 7 FOR REINFORCING DETAILS.
- ADJUST B604 BARS TO AVOID PILE INTERFERENCE.
- PROVIDE EYE BOLT FALL PROTECTION AT EACH ABUTMENT. LOCATE EYE BOLTS 1'-0" BELOW THE TOP OF ABUTMENT BODY AND SPACE AT 6'-0" MAX ACROSS THE FACE OF THE ABUTMENT. PROVIDE 3 TOTAL AT EACH ABUTMENT.

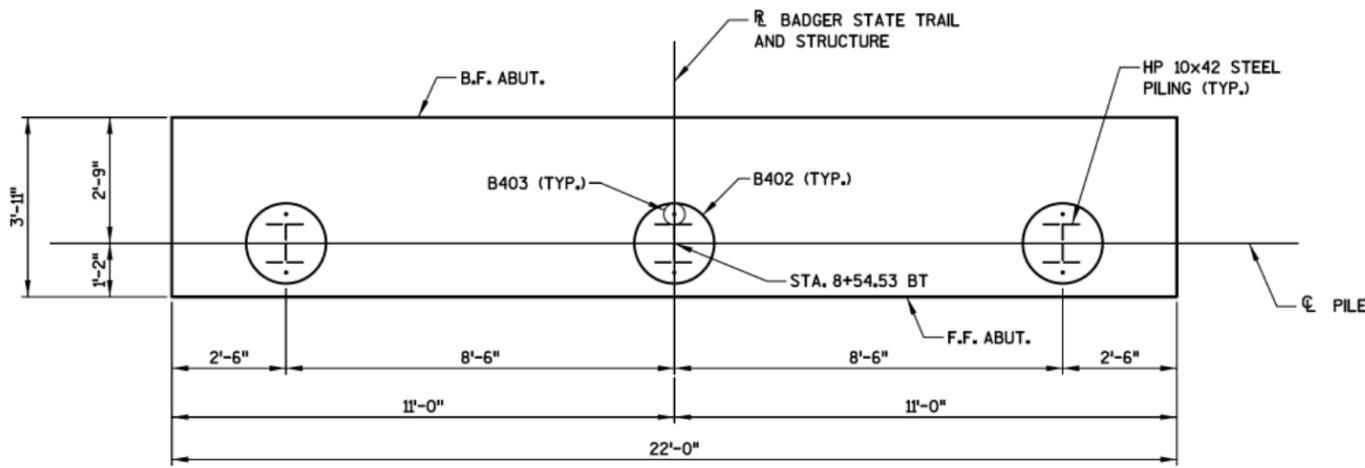
LEGEND

- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.
- HORIZONTAL CONSTRUCTION JOINT FORMED BY A BEVELED 2"x6".
- ▲ ASTM F1554 GRADE 36 GALVANIZED ANCHOR BOLT WITH (2) NUTS AND (1) WASHER EACH END. EMBED INTO CONCRETE 2'-0". BOLT DIAMETER AND PROJECTION HEIGHT BY BRIDGE MANUFACTURER. COST IS INCIDENTAL TO "PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE".
- * DIMENSION TO BE PROVIDED BY BRIDGE MANUFACTURER.

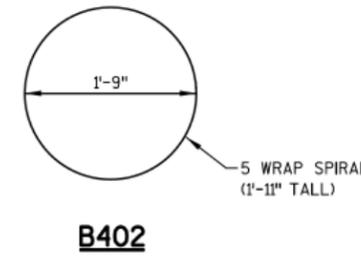
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DRAWN BY		DTH	PLANS CK'D. BMO
NORTH ABUTMENT			SHEET 6

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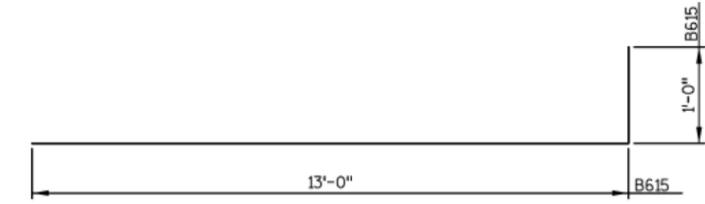
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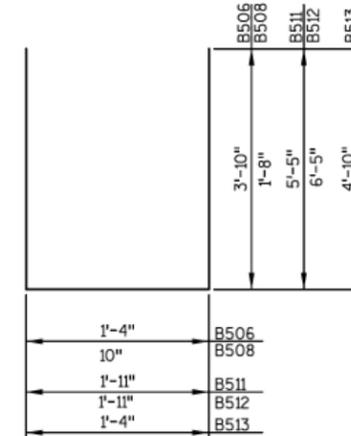
PILE PLAN



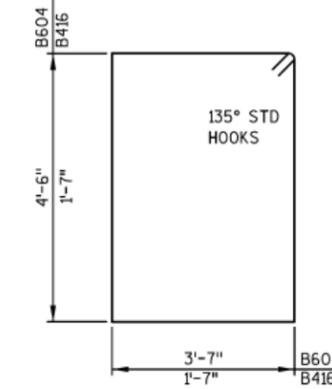
B402



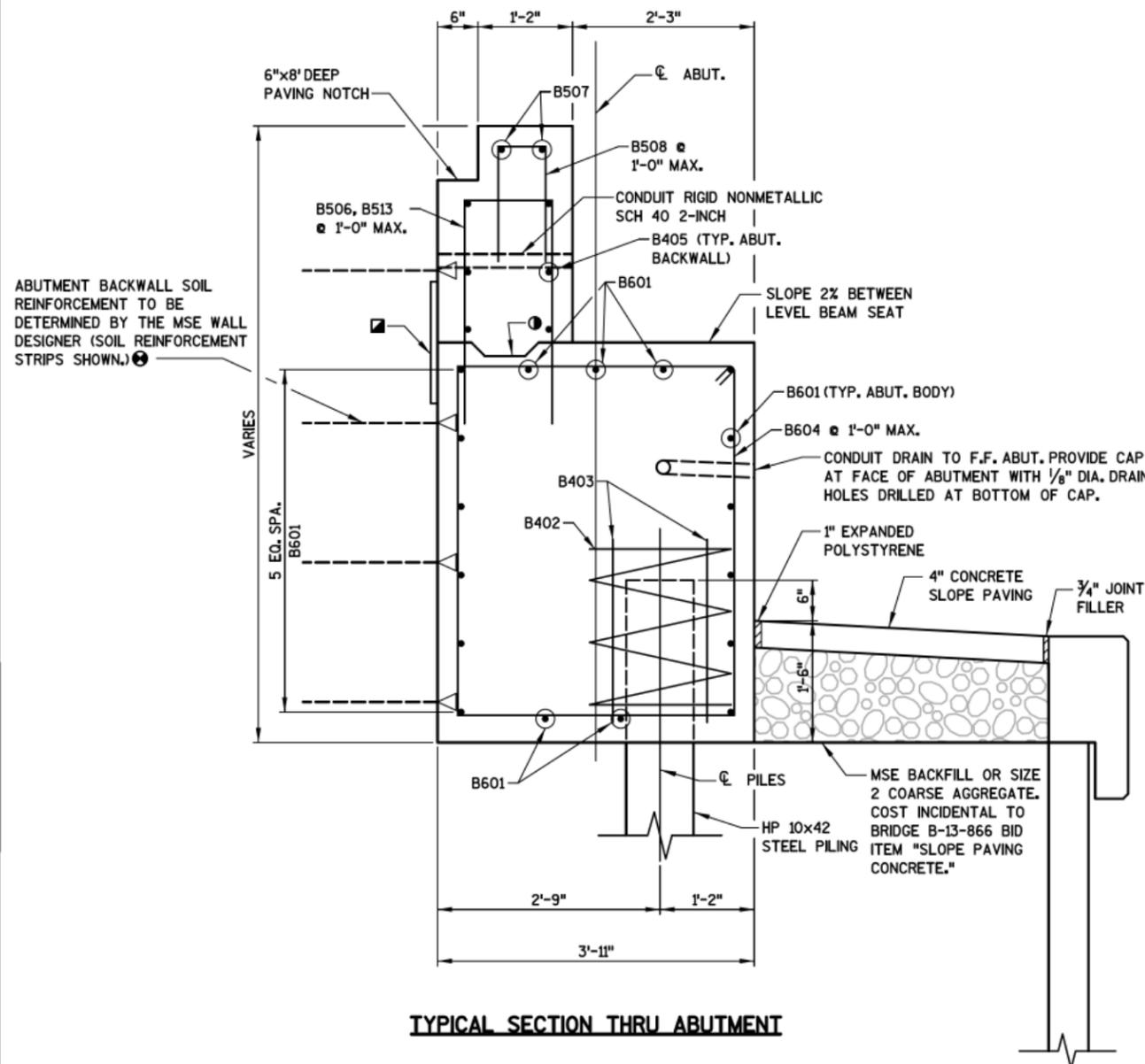
B615



B506, B508, B511
B512, B513



B604, B416



TYPICAL SECTION THRU ABUTMENT

NORTH ABUTMENT
BILL OF BARS

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COATED: 1,150 LBS

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B507	2	21'-8"		X	BACKWALL - TOP - HORIZONTAL
B508	14	3'-11"	X	X	BACKWALL - TOP - VERTICAL
B409	8	6'-8"		X	CLOSURE WALL - VERTICAL
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B512	16	14'-6"	X	X	CLOSURE WALLS - HORIZONTAL
B513	10	10'-9"	X	X	BACKWALL - TOP - VERTICAL
B514	6	3'-8"		X	BACKWALL - TOP - HORIZONTAL
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NOTE: THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE. DIMENSIONS FOR BENDING ARE OUT TO OUT OF BAR.

NOTES

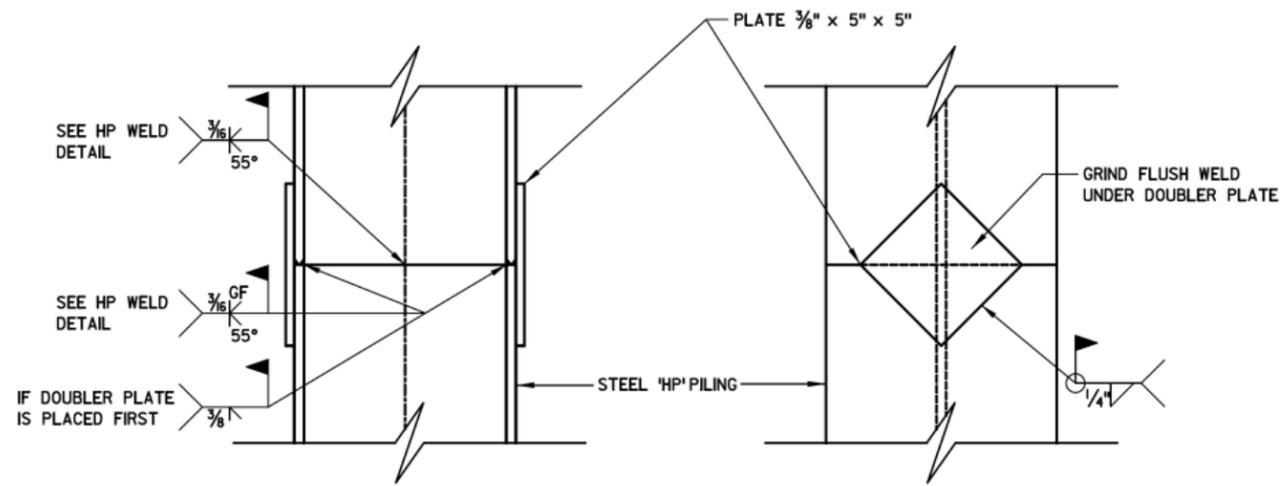
ABUTMENT TO BE SUPPORTED ON HP 10x42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE. ESTIMATED PILE LENGTH IS 70 FEET.

LEGEND

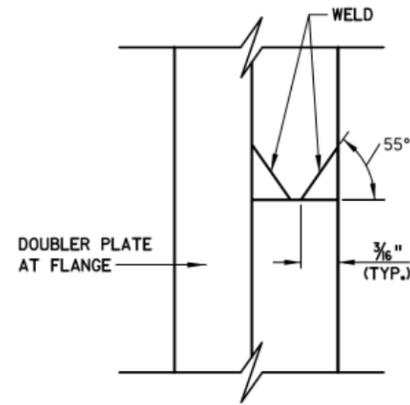
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- HORIZONTAL CONSTRUCTION JOINT KEYWAY FORMED BY A BEVELED 2"x6".
- UNFACTORED SUPERSTRUCTURE LATERAL LOADS TRANSFERRED TO THE ABUTMENT ARE TAKEN TO BE KIPS PER FOOT OF ABUTMENT LENGTH, THE VALUES ARE TO BE USED FOR THE LRFD DESIGN OF THE ABUTMENT BACKWALL SOIL REINFORCEMENT BY THE MSE WALL MANUFACTURER. THE FOLLOWING AASHTO LINE LOADS SHALL BE INCLUDED IN THE WALL DESIGN:

BR = 0.23 KLF WS = 0.33 KLF
TU = 0.77 KLF WL = 0.00 KLF

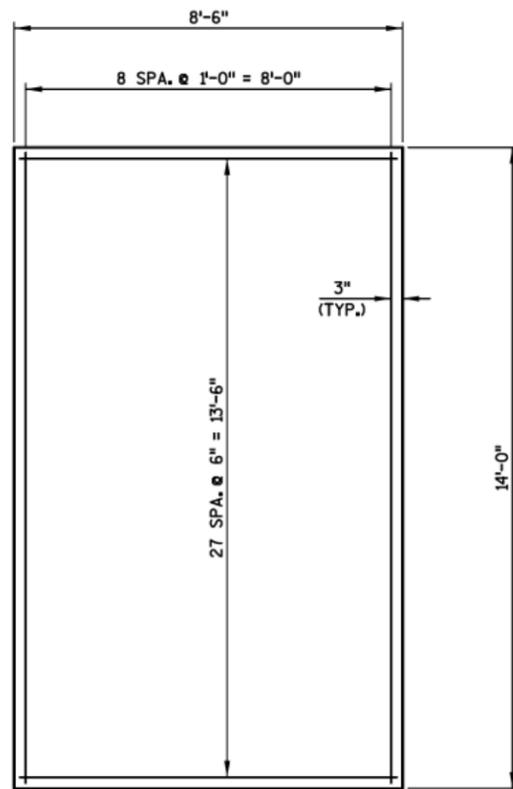
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-13-866			
DRAWN BY		DTH	PLANS CK'D. BMO
NORTH ABUTMENT DETAILS			SHEET 7



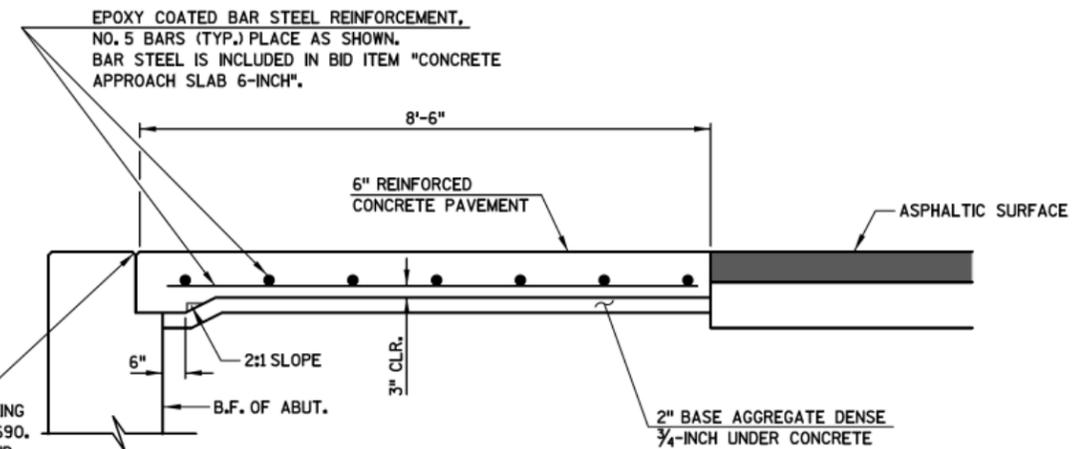
PILE SPLICE DETAILS



HP WELD DETAIL
FLANGE SHOWN, WEB SIMILAR



PLAN



ELEVATION

1/2" x 1/2" NOTCH - FILL WITH HOT-POURED JOINT SEALER MEETING THE REQUIREMENTS OF ASTM D6690. (COST OF SEALER INCLUDED IN BID ITEM "CONCRETE APPROACH SLAB 6-INCH")

CONCRETE PAVEMENT APPROACH SLAB, 6-INCH

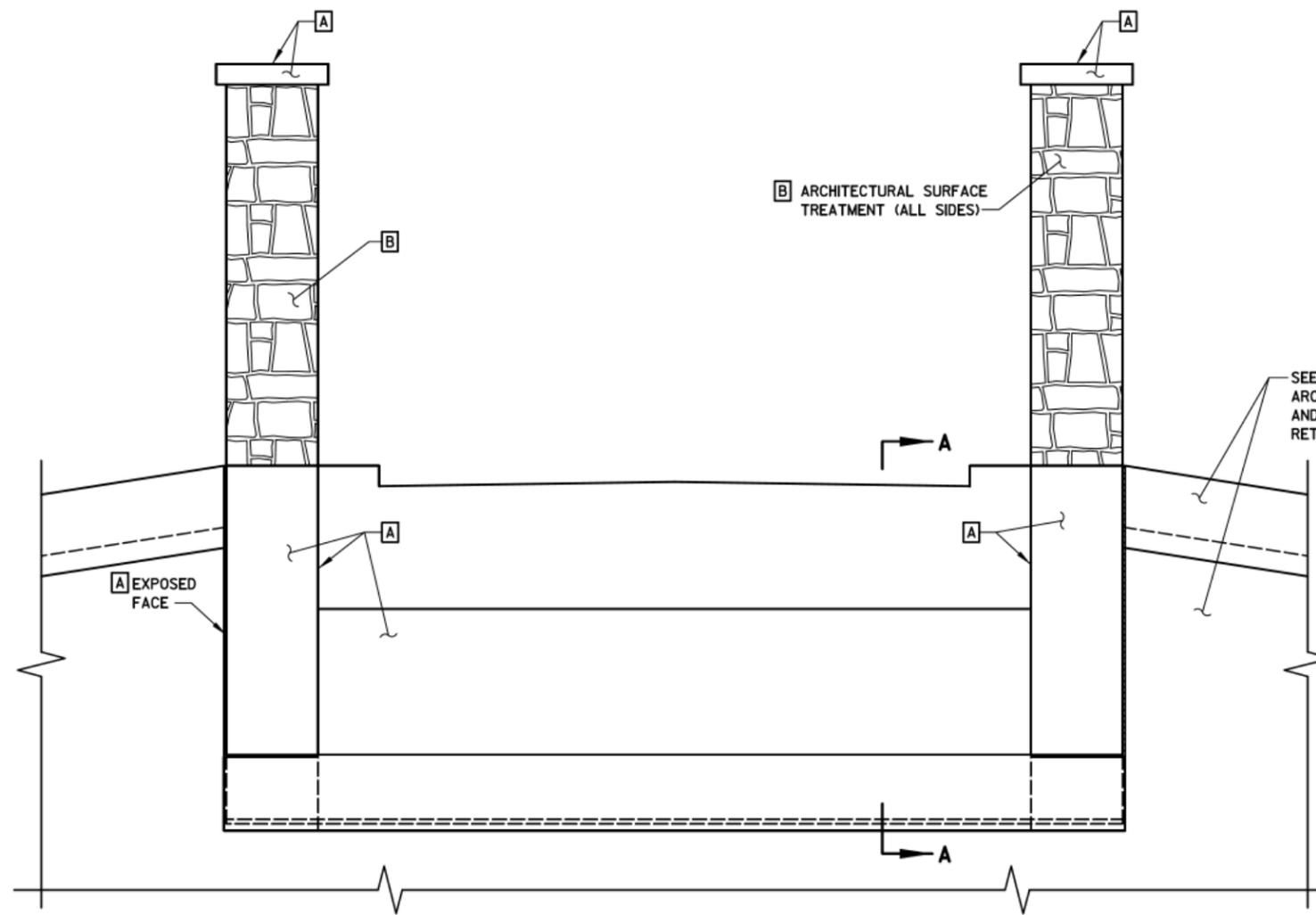
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-13-866			
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ABUTMENT DETAILS			SHEET 8

NOTES

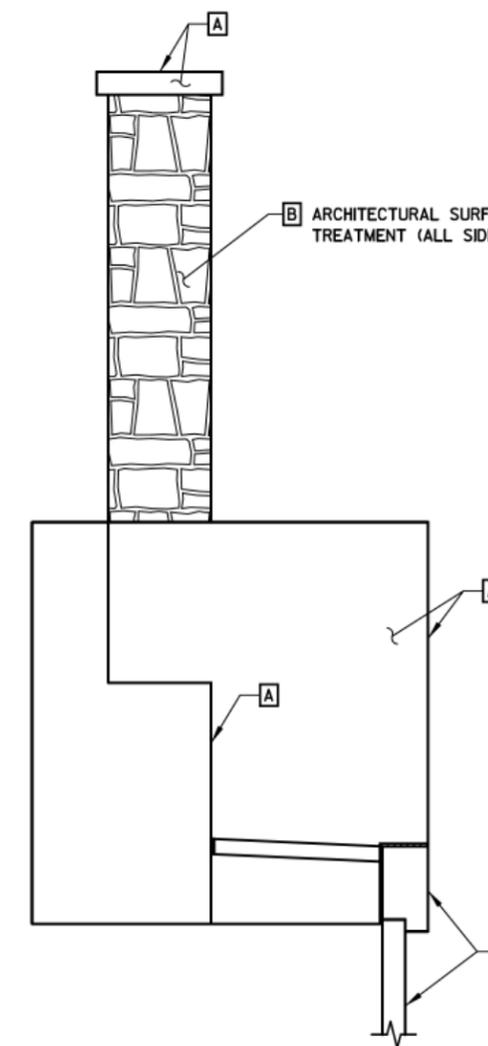
FORMLINER PATTERN SHALL BE RANDOM ASHLAR PATTERN WITH STONE SIZE VARIED. (H: 3"-17", W: 5"-29")

FORMLINER PATTERN SHALL BE LEVEL AND CONTINUOUS AROUND ALL CORNERS.

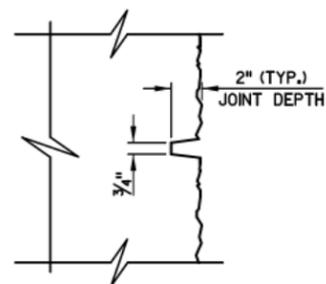
THE FORMLINER TREATMENTS ARE INCLUDING IN BID ITEM "ARCHITECTURAL SURFACE TREATMENT". MAX ALLOWED FORMLINER RELIEF IS 2". AVERAGE STONE RELIEF IS 3/4".



ABUTMENT ELEVATION



SECTION A

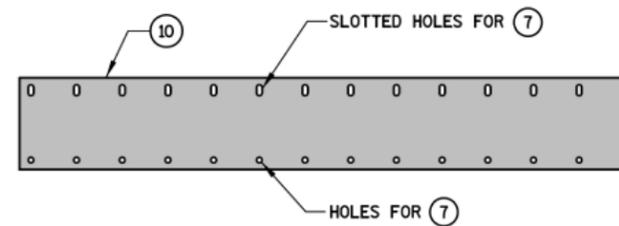
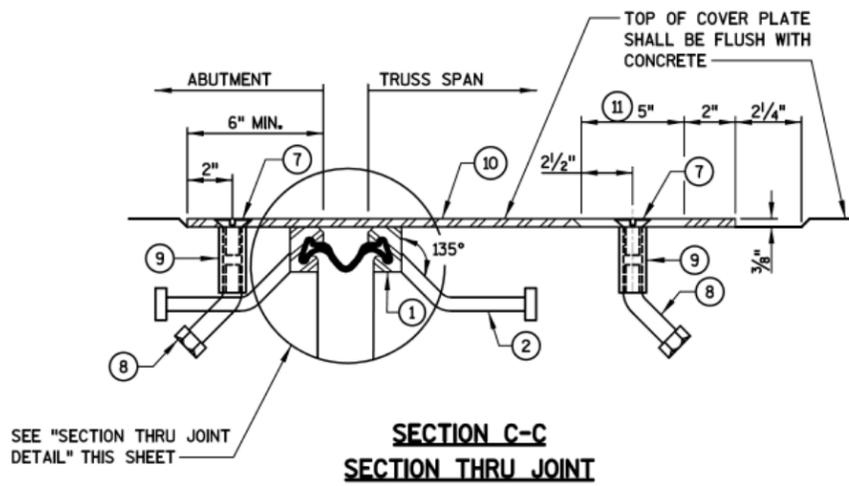


"MORTAR JOINT" DETAIL
APPLIES TO HORIZONTAL AND VERTICAL JOINTS

CONCRETE STAINING SCHEDULE

MARK	COLOR	LOCATION
A	FS 20122	ABUTMENT, CLOSURE WALLS, PEDESTAL CAPS
B	FS 33448	PEDESTALS

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SUPERSTRUCTURE ELEVATIONS & AESTHETIC DETAILS			SHEET 9



PLAN OF COVER PLATE WITH SLIP RESISTANT SURFACE

PLACE SLIP-RESISTANT SURFACE ON TOP WALKING SURFACE IN SHADED AREA

APPROVED SLIP-RESISTANT APPLIED SURFACES FOR STEEL PLATES		
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W.S. MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170

LEGEND

- ① NEOPRENE STRIP SEAL (4-INCH) & STEEL EXTRUSIONS.
- ② STUDS $\frac{5}{8}$ " ϕ \times $6\frac{3}{8}$ " LONG AT 6" CENTERS. WELD TO EXTRUSIONS & BEND AS SHOWN AFTER WELDING.
- ⑦ $\frac{3}{4}$ " ϕ \times $1\frac{1}{2}$ " STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. RECESS $\frac{1}{16}$ " BELOW PLATE SURFACE.
- ⑧ $\frac{3}{4}$ " ϕ \times 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
- ⑨ $\frac{3}{4}$ " ϕ \times $2\frac{1}{4}$ " GALVANIZED THREADED COUPLING.
- ⑩ GALVANIZED PLATE $\frac{3}{8}$ " \times 2'-0" \times LIMITS SHOWN, WITH HOLES FOR #7.
- ⑪ 1" \times 5" SLOTTED COUNTERSUNK HOLE FOR #7. SLOT PARALLEL TO DIRECTION OF MOVEMENT.
- ⊗ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

GENERAL NOTES

NO FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST & SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN & SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

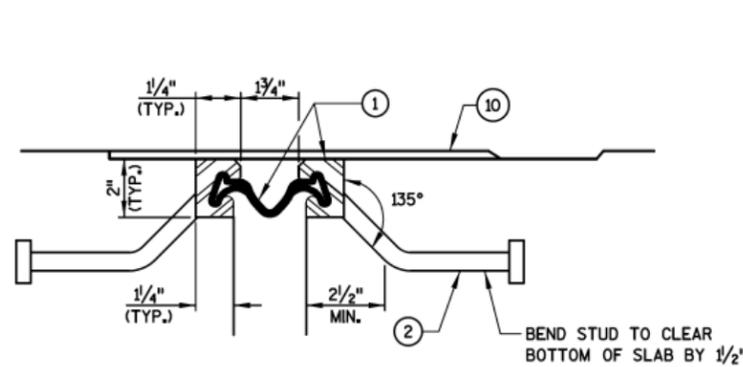
SANDBLAST PLATES, SUPPORTS, AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS, AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. SLIP RESISTANT SURFACE IS APPLIED TO SIDEWALK COVER PLATES BY THE MANUFACTURER AND THEN HOT DIPPED GALVANIZED TO THEIR RECOMMENDATIONS TO MAINTAIN THE INTEGRITY OF THIS SURFACE.

ANCHOR SYSTEM #8 & #9 SHALL CONFORM TO ASTM A307 & SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C & D.

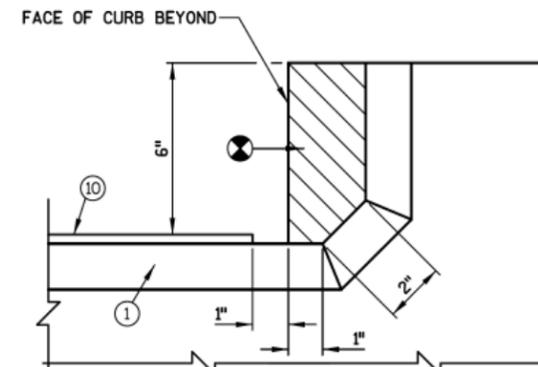
THE EXPANSION DEVICE MANUFACTURER SHALL PROVIDE A MECHANISM TO SUPPORT THE JOINT IN PLACE DURING THE CONCRETE POUR.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS & HARDWARE WILL BE PAID FOR AT THE PRICE BID FOR "EXPANSION DEVICE B-13-866".

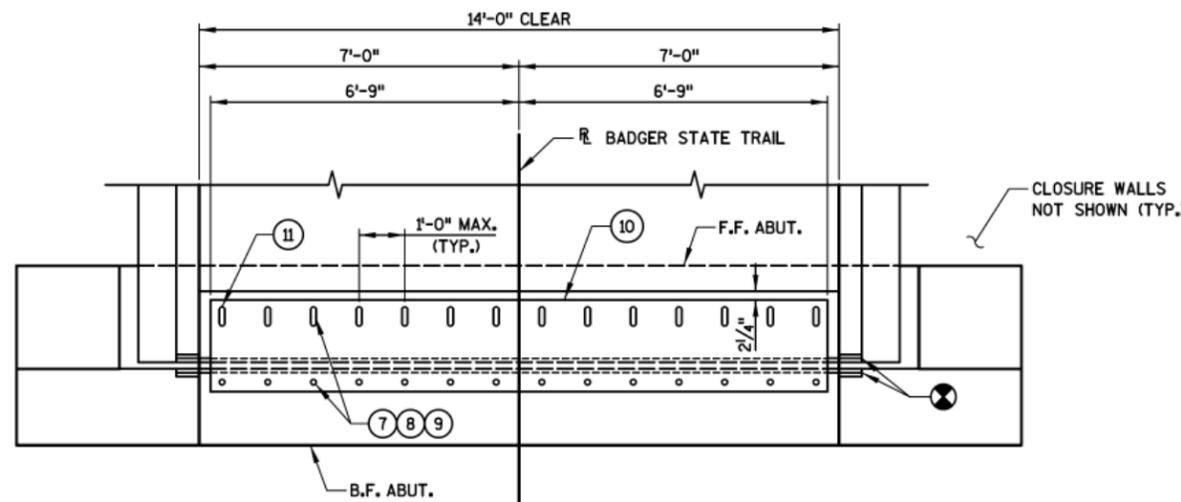
PLACE SLIP RESISTANT SURFACE ON TOP WALKING SURFACE. SEE DETAIL THIS SHEET.



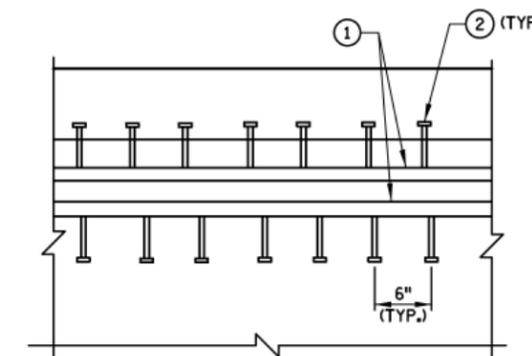
SECTION THRU JOINT DETAIL



SECTION D-D SECTION THRU JOINT AT CURB

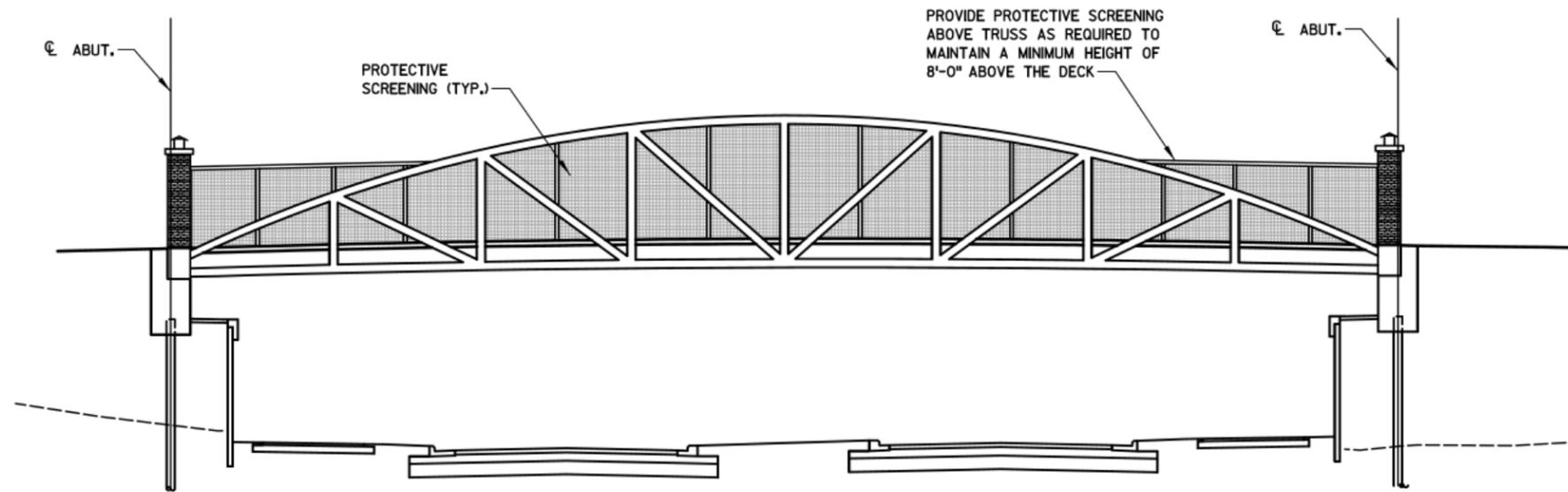


PLAN

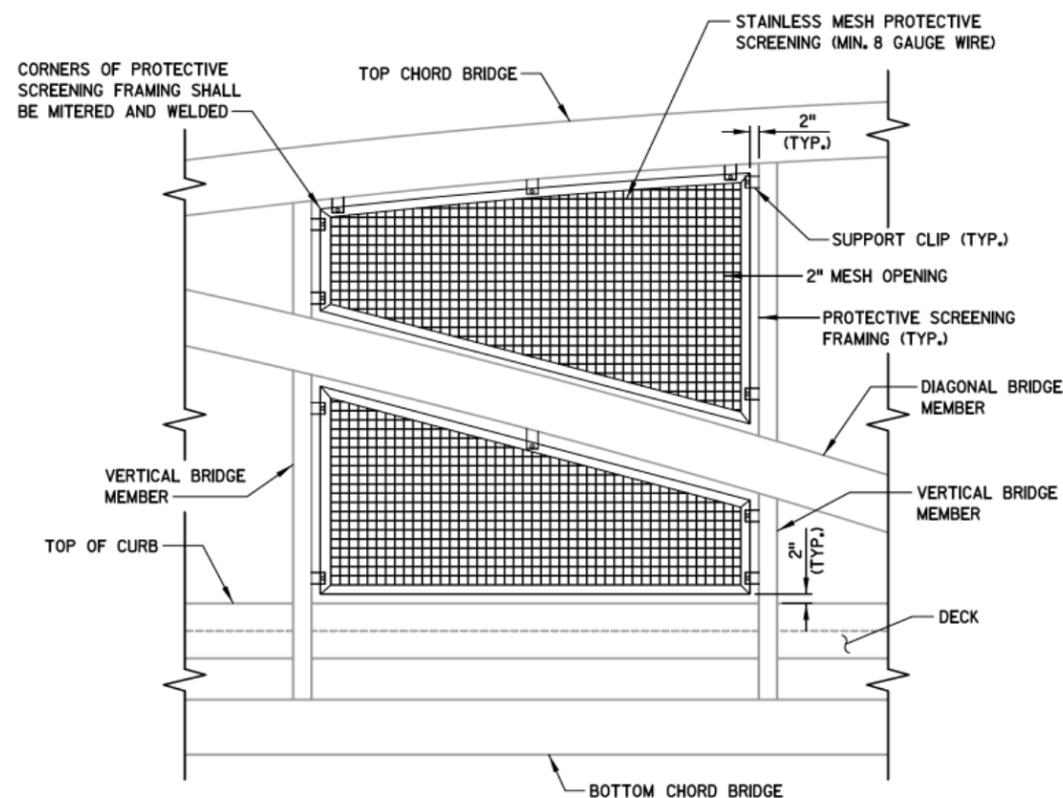


PART PLAN

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STRUCTURE B-13-866			
DRAWN BY		DTH	PLANS CK'D. BMO
EXPANSION DEVICES			SHEET 10



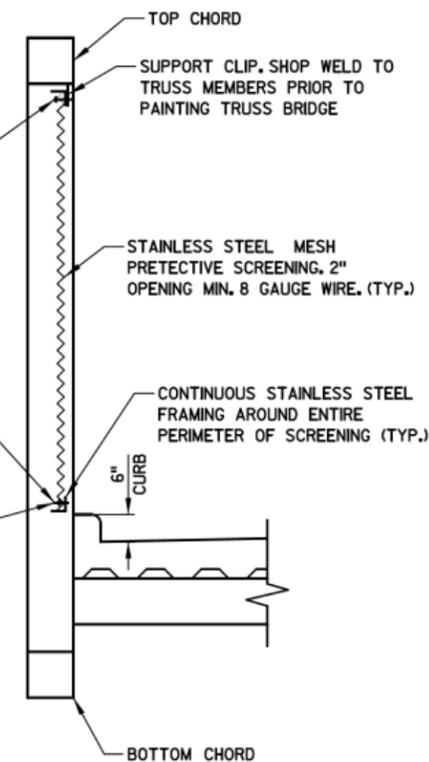
ELEVATION
(TYPICAL EACH SIDE)



PROTECTIVE SCREENING

BOLT PROTECTIVE SCREENING ASSEMBLY TO SUPPORT CLIPS USING STAINLESS STEEL HARDWARE. PROVIDE NEOPRENE WASHERS BETWEEN PAINTED SUPPORT CLIPS AND STAINLESS STEEL SCREENING ASSEMBLY TO PREVENT PAINT DAMAGE

CONTINUOUS STAINLESS STEEL FLAT RETAINER BAR (TYP.)
STAINLESS BOLT, LOCKNUT, AND WASHERS, SIZE AND SPACING DETERMINED BY TRUSS BRIDGE MANUFACTURER (TYP.)



PROTECTIVE SCREENING DETAIL

NOTES

PROTECTIVE SCREENING SHALL BE PROVIDED BY THE PREFABRICATED BRIDGE MANUFACTURER. ALL WORK ASSOCIATED WITH PROTECTIVE SCREENING SHALL BE INCIDENTAL TO BID ITEM "PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE LRFD B-13-866".

STAINLESS STEEL MESH SHALL BE ORIENTED VERTICALLY/HORIZONTALLY ACROSS THE FULL LENGTH OF THE BRIDGE.

ALL MATERIALS FOR THE PROTECTIVE SCREENING, INCLUDING HARDWARE, SHALL BE STAINLESS STEEL.

ALTERNATE DETAILS FOR THE PROTECTIVE SCREENING MAY BE PROPOSED BY THE PREFABRICATED BRIDGE MANUFACTURER, BUT MUST BE APPROVED BY THE ENGINEER.

PROTECTIVE SCREENING SHALL BE PROVIDED ON BOTH SIDES OF THE STEEL TRUSS PEDESTRIAN BRIDGE FROM THE TOP OF THE CURB TO THE TOP OF THE TRUSS OR 8'-0" ABOVE DECK, WHICHEVER IS GREATER. EXTEND SCREENING THE FULL LENGTH OF THE TRUSS BRIDGE.

PROVIDE PROTECTIVE SCREENING ABOVE THE TOP CHORD AS REQUIRED IN ORDER TO MAINTAIN A MINIMUM VERTICAL DIMENSION OF 8'-0" FROM THE TOP OF DECK TO TOP OF TRUSS OR TOP OF SCREENING. PROVIDE ADDITIONAL FRAMING ABOVE THE TRUSS AS REQUIRED TO SUPPORT THE PROTECTIVE SCREENING.

8

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STRUCTURE B-13-866			
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PROTECTIVE SCREENING DETAILS			SHEET 11