WAUKESHA

JANUARY 2025 ORDER OF SHEETS STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details Estimate of Quantities

PLAN OF PROPOSED IMPROVEMENT

V VERNON - CENTER DRIVE

BRIDGE OVER FOX RIVER, P-67-0100

STATE PROJECT NUMBER 2719-00-71

LOCAL STREET **WAUKESHA COUNTY**



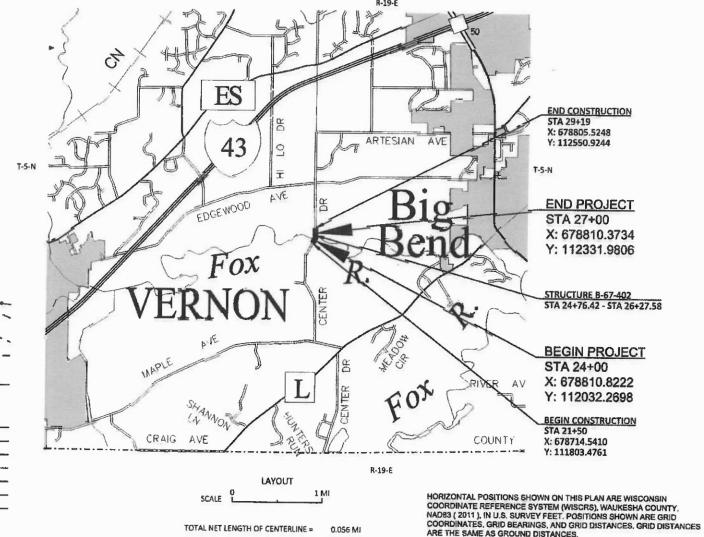
DESIGN DESIGNATION 2719-00-71

TOTAL SHEETS = 108

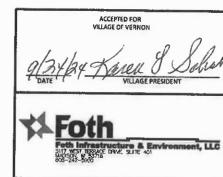
A.A.D.T. 2025 = 490 A.A.D.T. 2045 = 599 D.H.V. = 75 = 60/40 = 5.0% DESIGN SPEED = 40 MPH ESALS = 52,000

CONVENTIONAL SYMBOLS

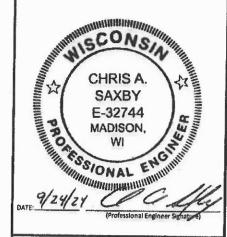
CONVENTIONAL SYMBO	JLS		
PLAN		PROFILE	
CORPORATE LIMITS	1111111	GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	_ ROCK
LIMITED HIGHWAY EASEMENT	L — — -	SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY			95.36
PROPOSED OR NEW R/W LINE		GRADE ELEVATION	96
SLOPE INTERCEPT		CULVERT (Profile View)	0 🗆
REFERENCE LINE	300,58.	UTILITIES	
EVICTING CURVEDT		ELECTRIC	ε
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	Jul	SANITARY SEWER	SAN
COMBOSTIBLE FLOTOS	-CAUTION-	STORM SEWER	5S
	1	TELEPHONE	1
MARSH AREA	(111)	WATER	— w —
	(d d)	UTILITY PEDESTAL	д
	,	POWER POLE	Ь
WOODED OR SHRUB AREA	£	TELEPHONE POLE	ø



FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 2719-00-71 WISC 2025157







STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

REPARED BY						
Surveyor	FOTH					
Designer	FOTH					
Project Manager	JOSEPH JELACIC					
Regional Examiner Regional Supervisor	WISDOT SOUTHEAST REGION					
	BRIAN BOOTHBY					

DATE: 9/30/24

Joseph Jelacic

FILE NAME: Q:\WISDOT\23VD04.06 2719-01 CENTER DRIVE WAUKESHA CTY\CIVIL3D\27190001\SHEETS\010101-TI.DWG

9/23/2024 4:17 PM

PLOT BY: LEX, BRANDON

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	А			В			С			D		
	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			
LAND USE:	0-2 2-6 6 & OVER (0-2 2-6 6 & OVER		0-2 2-6		6 & OVER	0-2	2-6	6 & OVER		
DOW CDODG	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
ROW CROPS:	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIPTURF:	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
MEDIAN STRIPTORF:	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPETURF:			.25			.27			.28			.30
SIDE SLOPETORP.			.32			.34			.36			.38
PAVEMENT:												
ASPHALT:						.70	95					
CONCRETE:	.8095 .7080											
BRICK:												
DRIVES, WALKS:	.7585											
ROOFS:	.7595											
GRAVEL ROADS, SHOULDERS:						.40	60					

TOTAL PROJECT AREA = 1.15 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.9 ACRES

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES PROJECT OVERVIEW TYPICAL SECTIONS CONSTRUCTION DETAILS PLAN DETAILS **EROSION CONTROL** ALIGNMENT LAYOUT - SURVEY CONTROL DETOUR SIGNING AND MARKING

WATER MARKERS

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS. OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, OR COVERED IN RIPRAP, SHALL BE FERTILIZED, SEEDED AND COVERED WITH EROSION MAT.

ALL GRADED OR DISTURBED AREAS THAT WILL NOT BE PERMANENTLY RESTORED WITHIN 5 DAYS. SHALL RECEIVE TEMPORARY SEED AND MULCH WITHIN 24 HOURS OF ANY DISTURBANCE.

TEMPORARY CAUSEWAY RESTORATION IS INCIDENTAL TO THE BID ITEM TEMPORARY CAUSEWAY.

PAVEMENT REMOVAL WILL BE TO A SAWED EDGE.

SAWCUTS, AS SHOWN ON THE PLANS, ARE SUGGESTED LOCATIONS AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER TO BETTER SUIT FIELD CONDITIONS.

PRIOR TO PLACEMENT OF BEAM GUARD THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

DO NOT DRIVE OR STORE EQUIPMENT, OR STORE CONSTRUCTION MATERIALS IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS OR WATERWAYS

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.

APPLY TACK COAT AT A RATE OF 0.07 GAL/SY TO AGGREGATE SURFACES AND 0.05 GAL/SY BETWEEN LAYERS OF HMA PAVEMENT.

A CONVERSION FACTOR OF 2.1 TONS/CY IS USED TO ESTIMATE BASE AGGREGATE DENSE 3/4-INCH AND BASE AGGREGATE DENSE 1 1/4-INCH.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE, SUBBASE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER...

PIPE ELEVATIONS, LENGTHS AND LOCATIONS AS SHOWN ON THE PLANS, MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR'S PAVING OPERATION SHALL BE CONSISTENT WITH THE TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR PARKING LANE.

SAW CUT SLURRY SHALL BE SQUEEGEED TO AGGREGATE SHOULDER OR SHOVELED UP AND REMOVED FROM THE PAVEMENT BEFORE MOVING ONTO THE NEXT SAW CUT LOCATION.

STANDARD ABBREVIATIONS



UTILITIES CONTACTS

WE ENERGIES ELECTRICITY STEVE KING S13 W33800 HWY 18 DELAFIELD, WI 53018 PHONF: 414-940-0570 EMAIL: STEVE.KING@WE-ENERGIES.COM

SPECTRUM COMMUNICATION LINE

DAVE YOPPS 1320 N. DR. MARTIN LUTHER KING JR DRIVE MILWAUKEE, WI 53212 PHONE: 414-277-4281

EMAIL: CHTR_WI_CONST@CHARTER.COM

9/26/2024 11:20 AM

VILLAGE OF VERNON

KAREN SCHUH VILLAGE PRESIDENT W249 S8910 CENTER DR VERNON, WI 53103 PHONE: 262-662-2039 EMAIL: KSCHUH@VILLAGEOFVERNONWI.ORG

DESIGN PROJECT LEADER

CHRIS SAXBY FOTH INFRASTRUCTURE & ENVIRONMENT, LLC 5117 WEST TERRACE DRIVE, SUITE 401 MADISON, WI 53718 PHONE: 608-242-5942 EMAIL: CHRIS.SAXBY@FOTH.COM

DESIGN PROJECT MANAGER

JOSEPH JELACIC WISDOT SOUTHEAST REGION 141 NW BARSTOW ST WAUKESHA, WI 53188 PHONF: 262-548-6762 EMAIL: JOSEPH.JELACIC@DOT.WI.GOV

WISCONSIN DNR LIAISON

CRAIG WEBSTER SOUTHEAST REGION 141 NW BARSTOW ST, ROOM 180 WAUKESHA, WI 53188 PHONE: 262-574-2141 EMAIL: CRAIG.WEBSTER@WI.GOV

COUNTY: WAUKESHA PROJECT NO: 2719-00-01 HWY: CENTER DRIVE

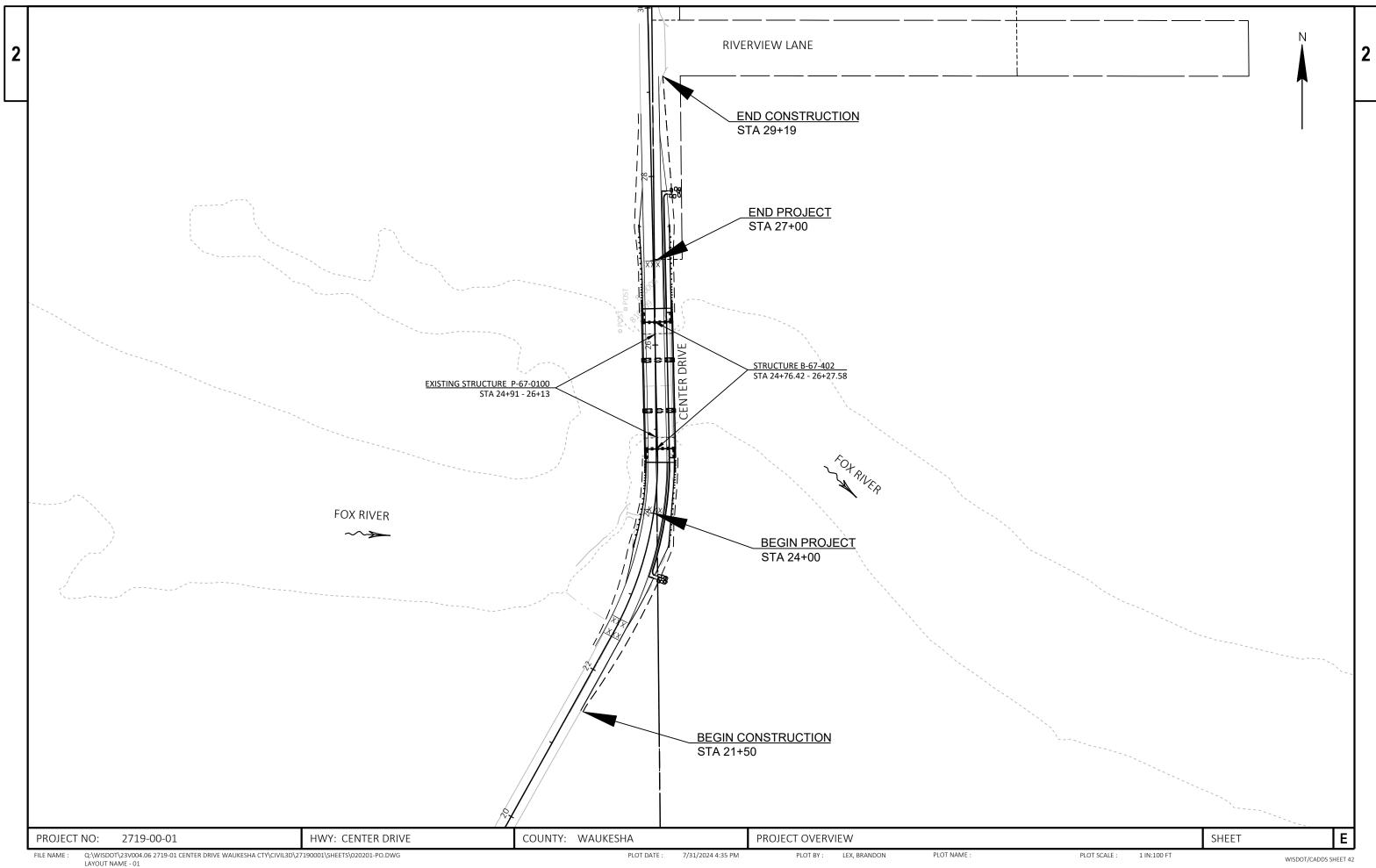
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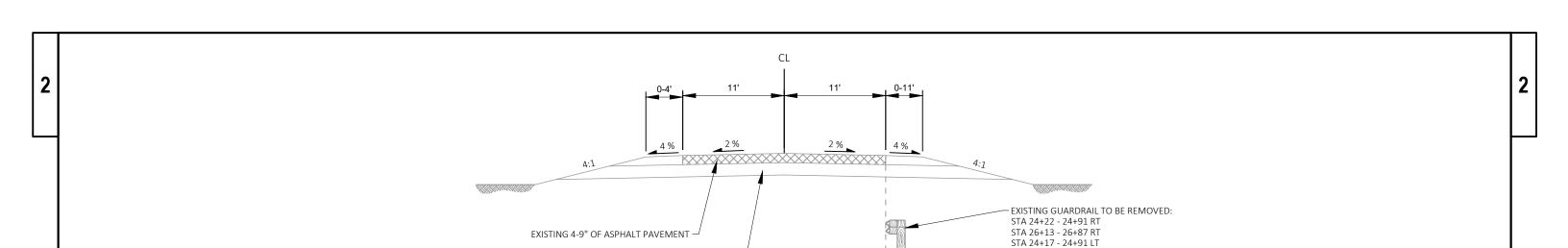
GENERAL NOTES

PLOT NAME

PLOT SCALE :

SHEET

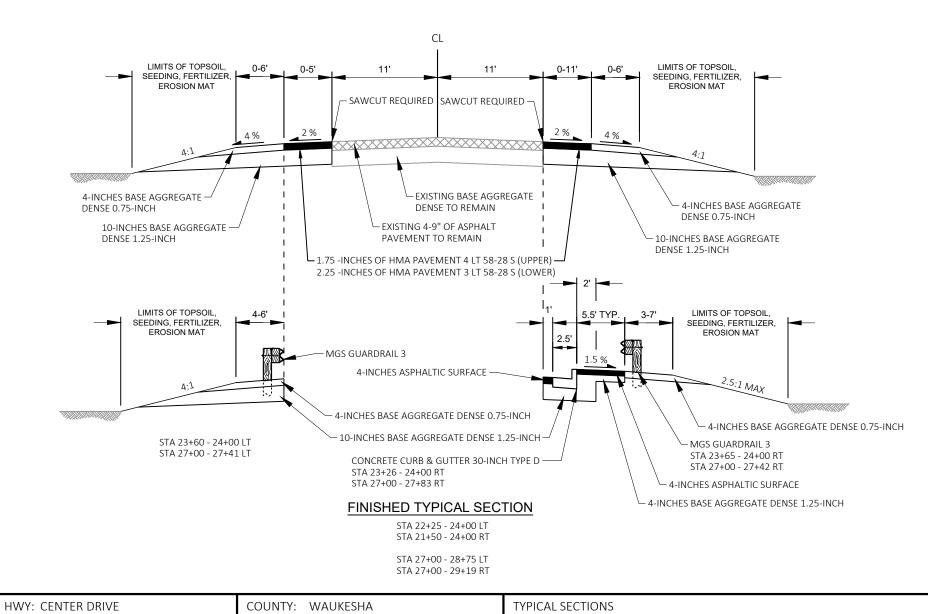




EXISTING TYPICAL SECTION

STA 24+00 - 24+91 STA 26+13 - 27+00

EXISTING BASE AGGREGATE -



STA 26+13 - 26+83 LT

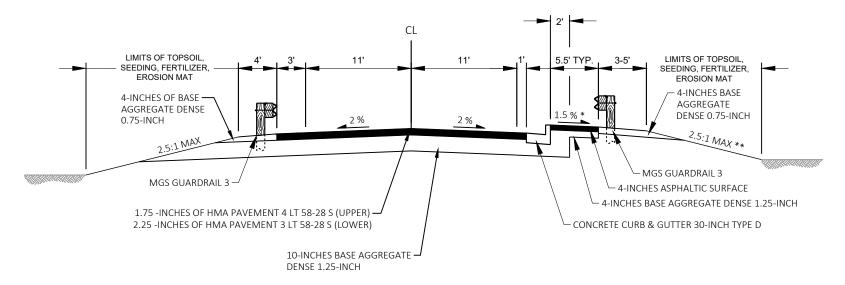
PLOT SCALE :

SHEET

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2719-00-01

PROJECT NO:



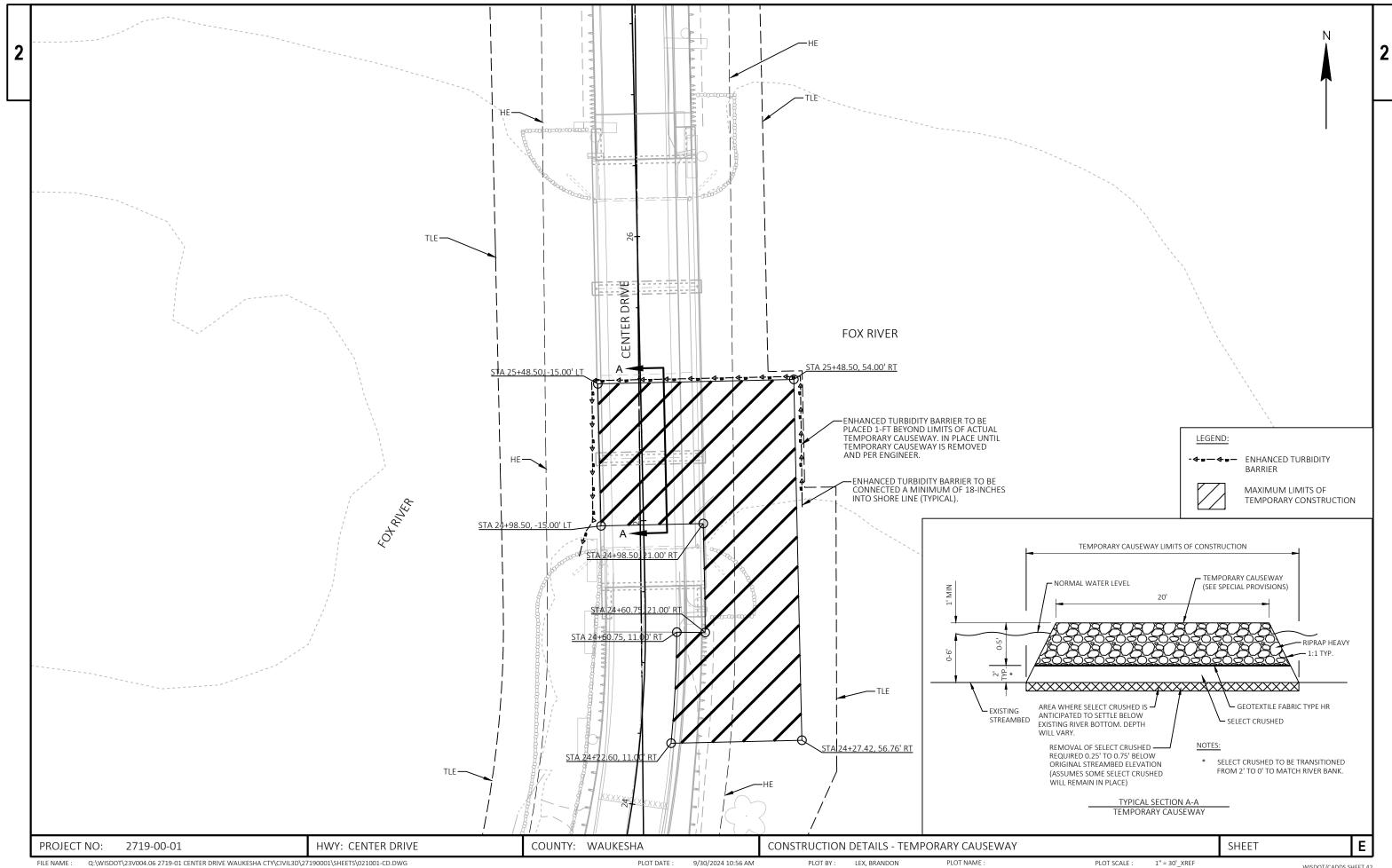
NOTES:

- * SIDEWALK SLOPE ON CONCRETE APPROACH / BRIDGE IS + 1.5%. TRANSITION SIDEWALK SLOPE AFTER CONCRETE APPROACH OVER 15-FT FROM +1.5% TO -1.5%.
- ** FROM STA 26+15 26+60 RT 1.5:1 SLOPES WILL OCCUR, SEE CROSS SECTIONS.

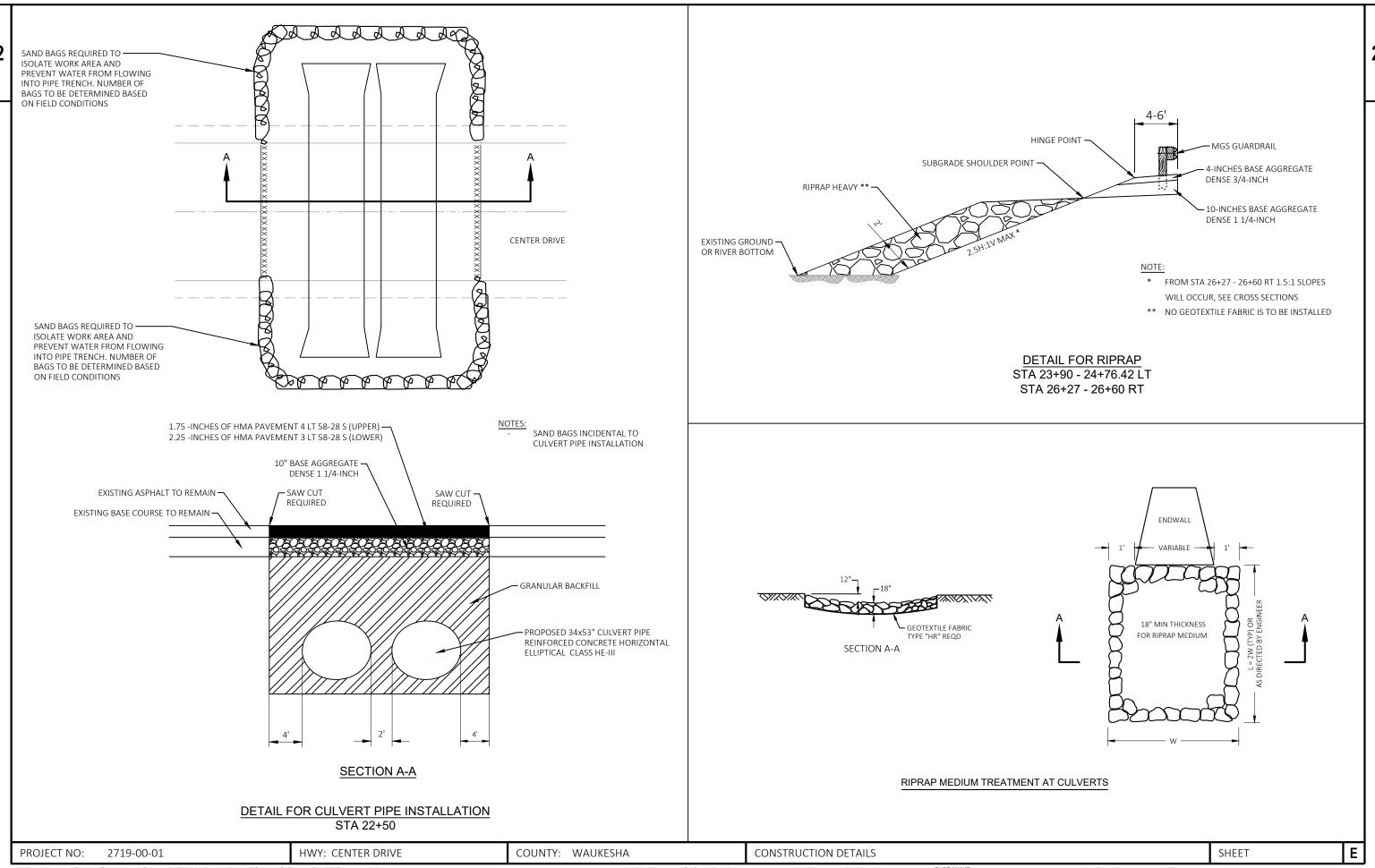
FINISHED TYPICAL SECTION

STA 24+00 - 24+60 STA 26+43 - 27+00

Ε PROJECT NO: 2719-00-01 HWY: CENTER DRIVE COUNTY: WAUKESHA TYPICAL SECTIONS SHEET

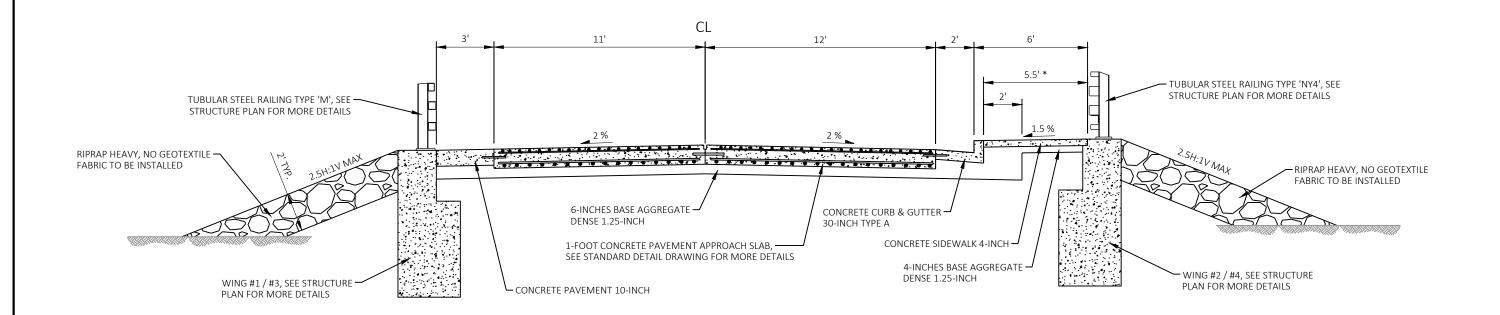


WISDOT/CADDS SHEET 42 LAYOUT NAME - 02



Q:\WISDOT\23V004.06 2719-01 CENTER DRIVE WAUKESHA CTY\CIVIL3D\27190001\SHEETS\021002-CD.DWG LEX, BRANDON FILE NAME : PLOT DATE : 9/26/2024 5:12 PM PLOT BY: PLOT NAME : PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42

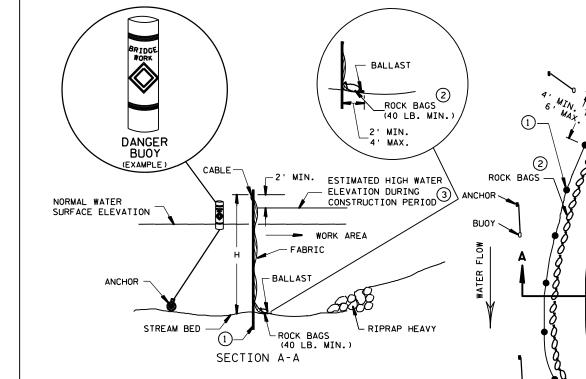




* FOR SIDEWALK OUTSIDE THE WING WALL LIMITS, THE BACK OF PAVEMENT (CONCRETE SIDEWALK / ASPHALTIC SURFACE) IS TO MATCH THE BACK OF GUARDRAIL.

DETAIL FOR CONCRETE SIDEWALK AT CONCRETE PAVEMENT APPROACH SLABS

Ε PROJECT NO: 2719-00-01 HWY: CENTER DRIVE COUNTY: WAUKESHA CONSTRUCTION DETAILS SHEET Q:\WISDOT\23V004.06 2719-01 CENTER DRIVE WAUKESHA CTY\CIVIL3D\27190001\SHEETS\021002-CD.DWG PLOT BY: LEX, BRANDON PLOT NAME : FILE NAME : 9/26/2024 5:12 PM PLOT SCALE : 1 IN:10 FT



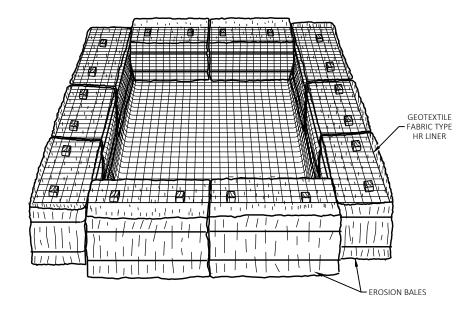
ENHANCED TURBIDITY BARRIER DETAIL

NOTES:

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS. SEE SDD 08E11-02 TURBIDITY BARRIER FOR ADDITIONAL INFORMATION.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEER'S DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- 2 INSTALL A CONTINUOUS LINE OF ROCK BAGS TO ANCHOR THE BARRIER
- 3 ESTIMATE HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2 FEET GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.



EXAMPLE TEMPORARY SETTLING BASIN DETAIL FOR DEWATERING

NOTES

- 1. WHEN DEWATERING REQUIRED, CONTRACTOR SHALL PUMP TURBID WATER FROM EXCAVATION TO SEDIMENT BAG PLACED INSIDE FABRIC LINED STAKED BALE ENCLOSURE PRIOR TO DISCHARGING TO DITCHES/INLETS/WETLANDS OR WATERWAYS.
- 2. SEDIMENT BAG TO BE PLACED IN AN UPLAND VEGETATED AREA OR EQUIVALENT LOCATION APPROVED BY THE ENGINEER.
- 3. BASIN TO BE KEPT LESS THAN 10% FULL OF SEDIMENT. GEOTEXTILE FABRIC AND SEDIMENTS TO BE DISPOSED BY THE CONTRACTOR OFF OF THE PROJECT
- 4. TEMPORARY SETTLING BASIN AND SEDIMENT BAG TO BE INCIDENTAL TO CONTRACT. ANY REQUIRED MAINTENANCE OR REPLACEMENT OF EROSION BALES, GEOTEXTILE FABRIC, AND SEDIMENT BAG IS INCIDENTAL TO CONTRACT.
- 5. SIZE TO BE DETERMINED BY THE CONTRACTOR AS PART OF THE ECIP SUBMITTAL

PROJECT NO: 2719-00-01 HWY: CENTER DRIVE

COUNTY: WAUKESHA

CONSTRUCTION DETAILS

PLOT SCALE:

SHEET

PLAN VIEW

SHORELINE

RIPRAP HEAVY

Q:\WISDOT\23V004.06 2719-01 CENTER DRIVE WAUKESHA CTY\CIVIL3D\27190001\SHEETS\021002-CD.DWG FILE NAME :

PLOT DATE: 9/26/2024 5:12 PM

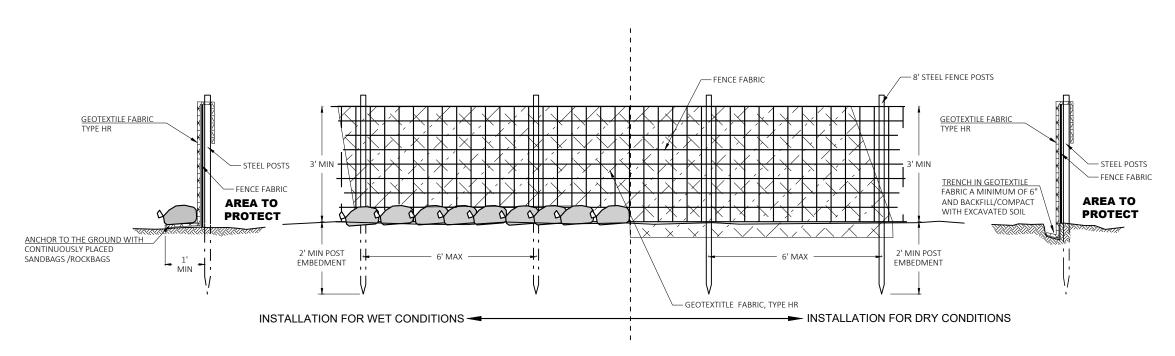
LEX. BRANDON PLOT BY:

PLOT NAME

1 IN:10 FT

WISDOT/CADDS SHEET 42

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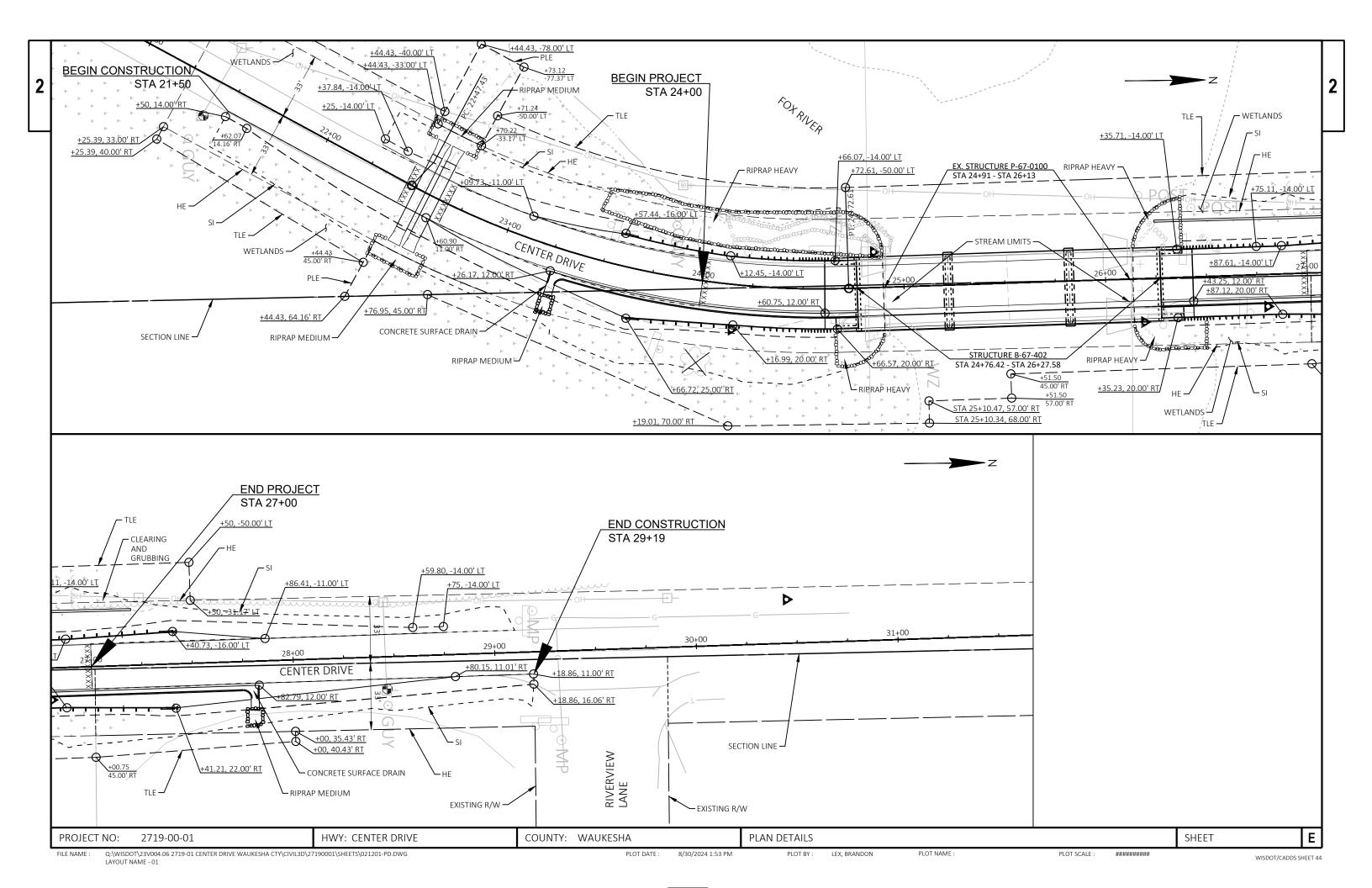


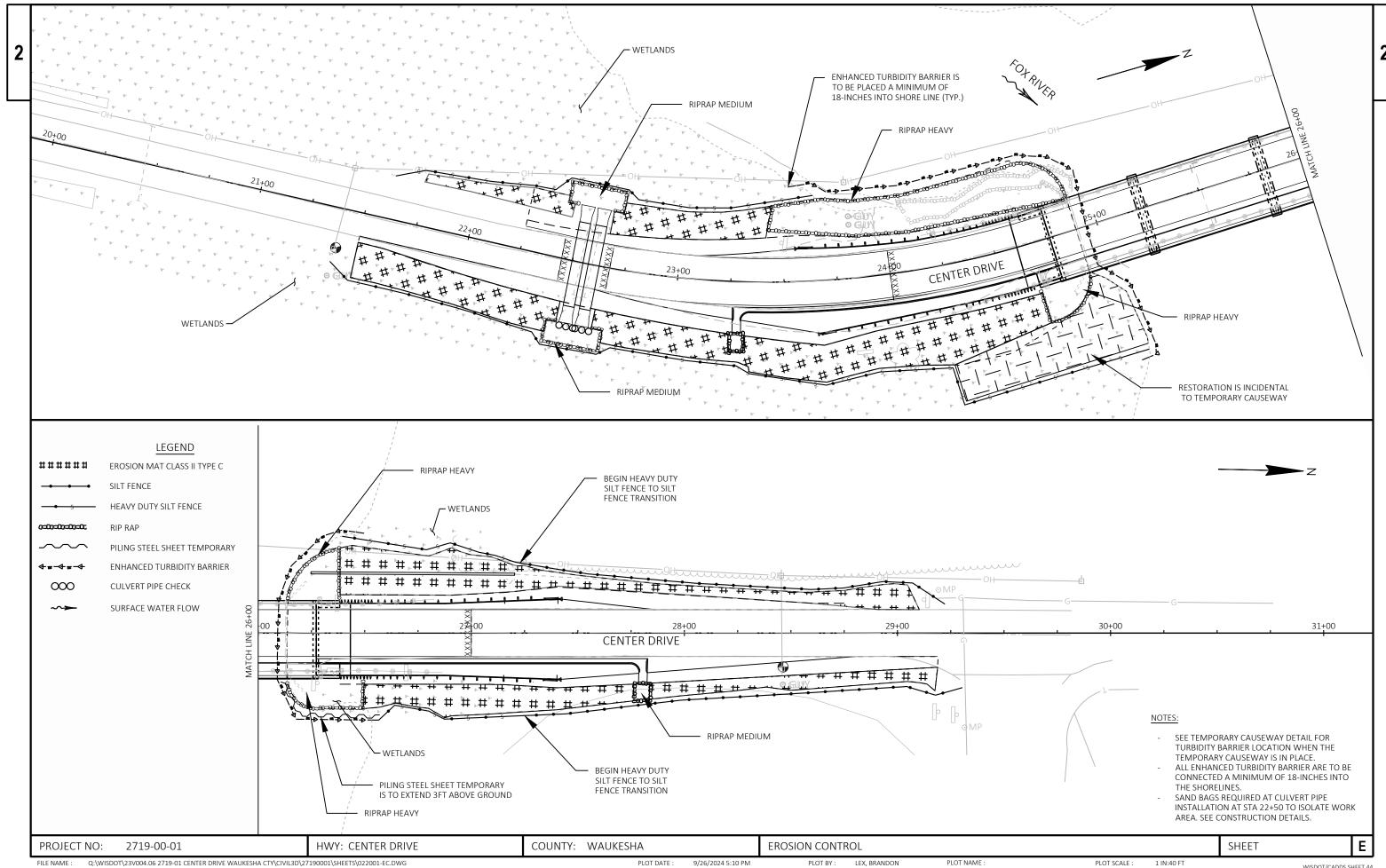
HEAVY DUTY SILT FENCE

GENERAL NOTES:

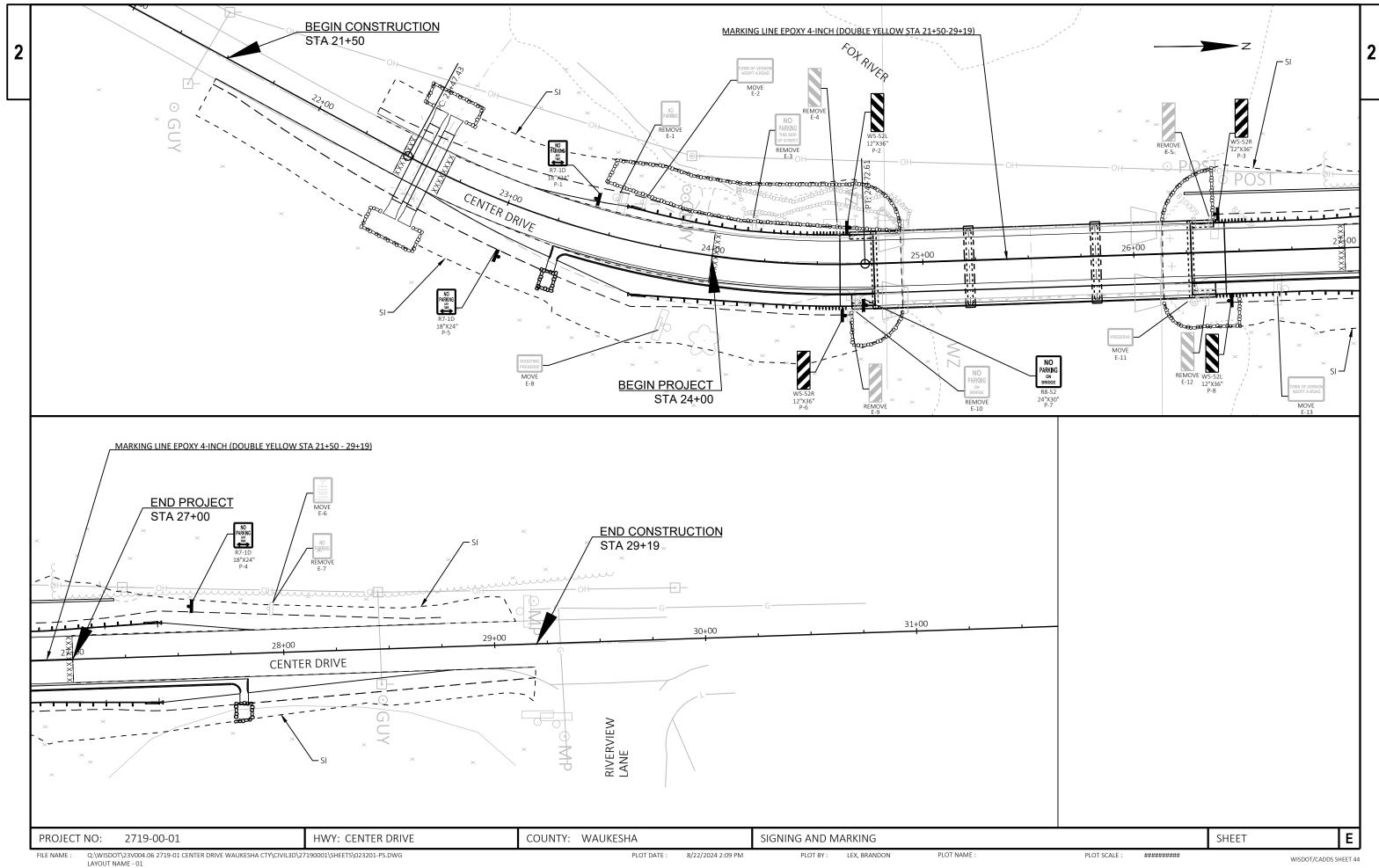
- ATTACH FENCE FABRIC TO POSTS A MINIMUM OF 3 TIES PER POST (TOP, MIDDLE, BOTTOM)
 ATTACH GEOTEXTILE FABRIC TO FENCE FABRIC AND/OR POSTS AT A MAXIMUM SPACING OF
- EVERY 2 FEET ALONG THE TOP AND ADDITIONALLY AS NECESSARY TO PREVENT DISPLACEMENT BY WIND AND WAVE ACTIONS.

Ε PROJECT NO: 2719-00-01 HWY: CENTER DRIVE COUNTY: WAUKESHA CONSTRUCTION DETAILS SHEET

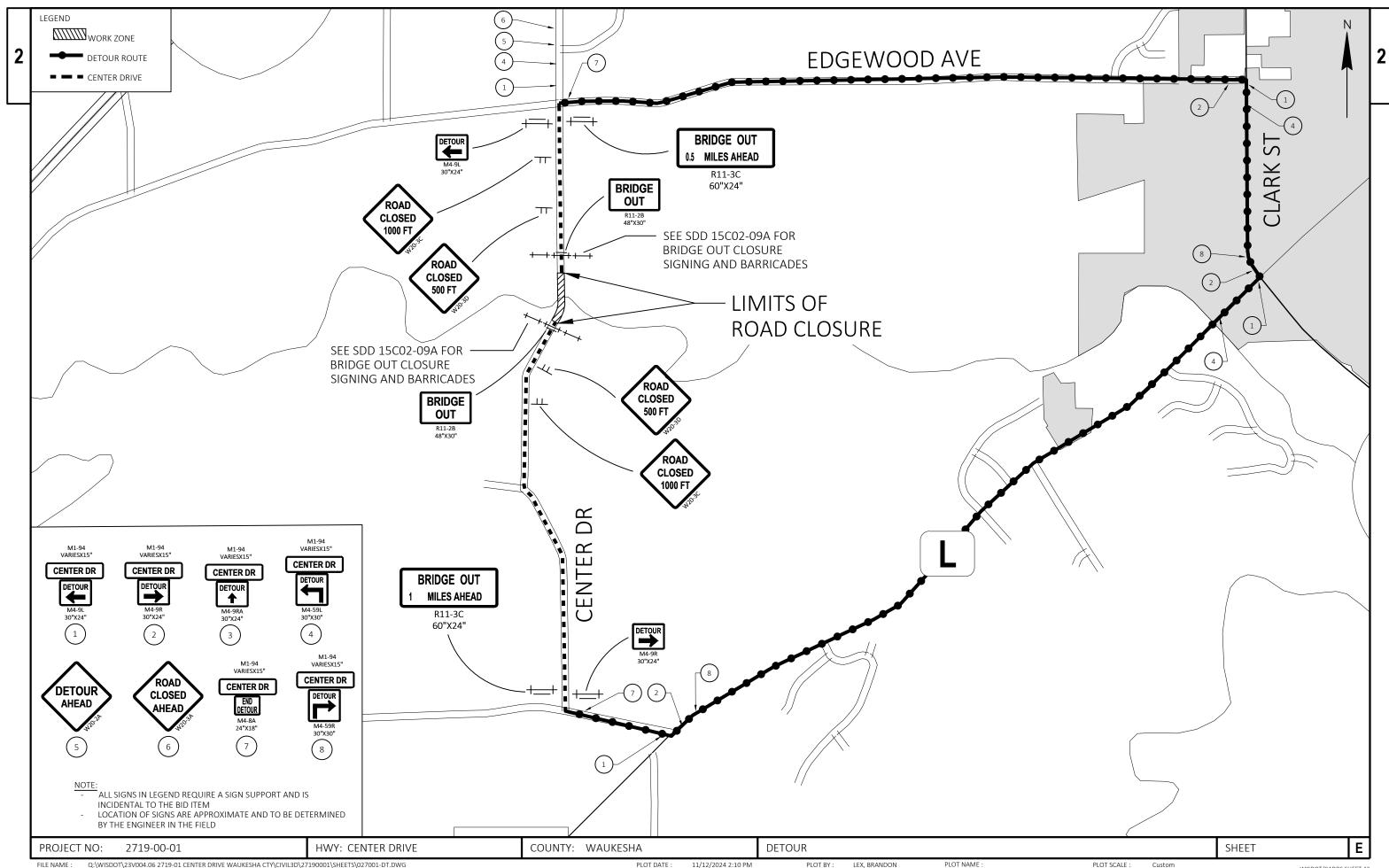


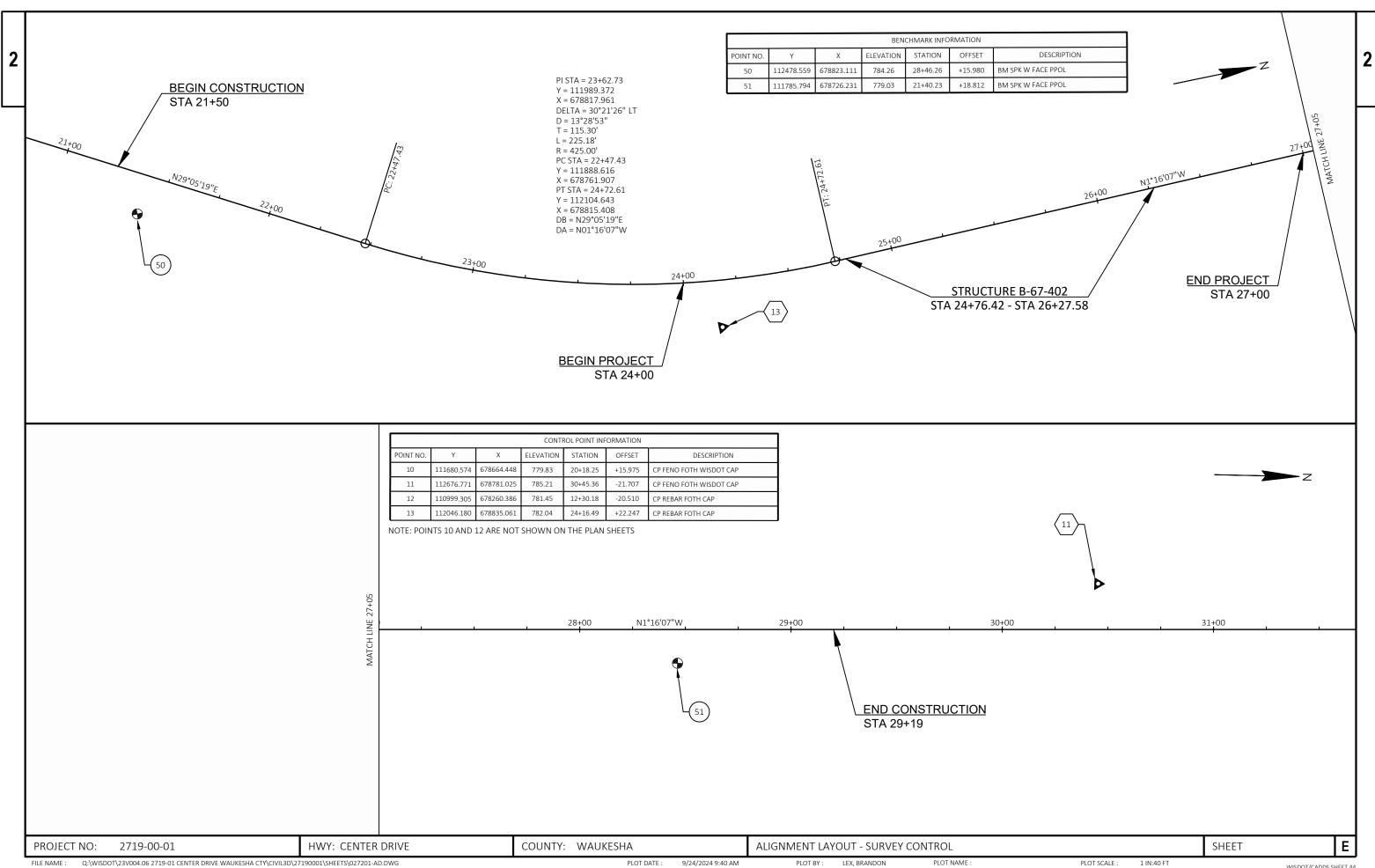


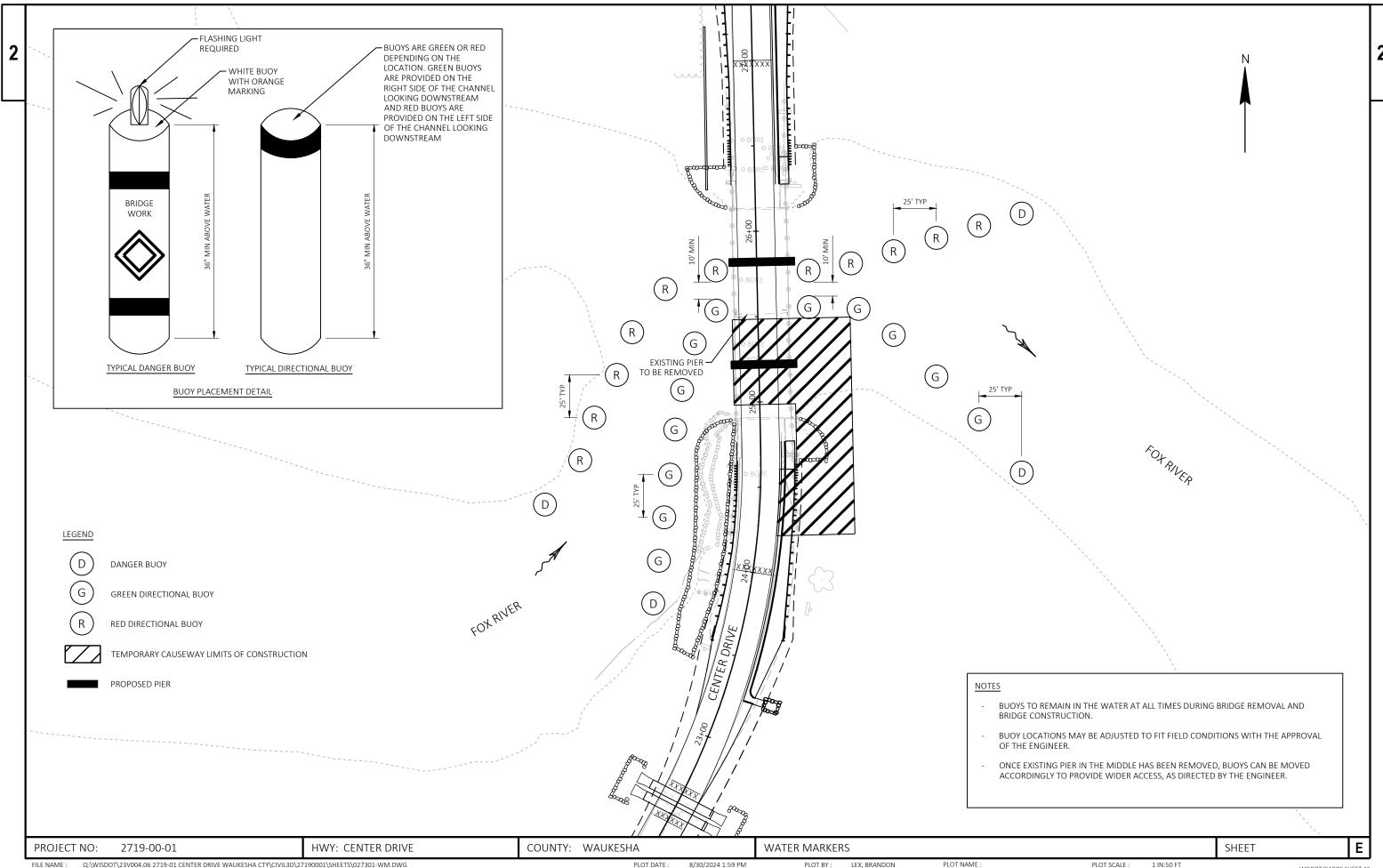
LAYOUT NAME - 03



WISDOT/CADDS SHEET 44







2719-00-71

					2/19-00-/1	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	1.000	1.000	
0004	201.0120	Clearing	ID	20.000	20.000	
0006	201.0205			1.000	1.000	
8000	201.0220	Grubbing		20.000	20.000	
0010	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000	
0012	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-67-0100	EACH	1.000	1.000	
0014	204.0150	Removing Curb & Gutter	LF	40.000	40.000	
0016	204.0165	Removing Guardrail	LF	540.000	540.000	
0018	204.0190	Removing Surface Drains	EACH	4.000	4.000	
0020	205.0100	Excavation Common	CY	343.000	343.000	
0022	206.1001	Excavation for Structures Bridges (structure) 01. B-67-402	EACH	1.000	1.000	
0024	206.5001	Cofferdams (structure) 01. B-67-402	EACH	3.000	3.000	
0026	208.0100	Borrow	CY	392.000	392.000	
0028	210.1500	Backfill Structure Type A	TON	140.000	140.000	
0030	213.0100	Finishing Roadway (project) 01. 2719-00-71	EACH	1.000	1.000	
0032	305.0110	Base Aggregate Dense 3/4-Inch	TON	157.000	157.000	
0034	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	795.000	795.000	
0036	415.0100	Concrete Pavement 10-Inch	SY	10.000	10.000	
0038	415.0410	Concrete Pavement Approach Slab	SY	80.000	80.000	
0040	455.0605	Tack Coat	GAL	60.000	60.000	
0042	460.2000	Incentive Density HMA Pavement	DOL	70.000	70.000	
0044	460.5223	HMA Pavement 3 LT 58-28 S	TON	57.000	57.000	
0046	460.5224	HMA Pavement 4 LT 58-28 S	TON	45.000	45.000	
0048	465.0105	Asphaltic Surface	TON	48.000	48.000	
0050	502.0100	Concrete Masonry Bridges	CY	589.900	589.900	
0052	502.3200	Protective Surface Treatment	SY	773.000	773.000	
0054	502.9000.S	. , ,	EACH	2.000	2.000	
0056	505.0400	Bar Steel Reinforcement HS Structures	LB	8,820.000	8,820.000	
0058	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	85,080.000	85,080.000	
0060	512.1000	Piling Steel Sheet Temporary	SF	495.000	495.000	
0062	513.4061	Railing Tubular Type M	LF LF	179.000	179.000	
0064	513.7084	Railing Steel Type NY4		179.000	179.000 22.000	
0066	516.0500	Rubberized Membrane Waterproofing	SY LF	22.000		
0068	522.2334	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 34x53-Inch	EACH	80.000	80.000 4.000	
0070 0072	522.2634 530.0112	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch Culvert Pipe Corrugated Polyethylene 12-Inch	LF	4.000 96.000	96.000	
0072	550.0010	Pre-Boring Unconsolidated Materials	LF	140.000	140.000	
0074	550.0500	Pile Points	EACH	32.000	32.000	
0078	550.0300	Piling Steel HP 10-Inch X 42 Lb	LF	735.000	735.000	
0080	550.1120	Piling Steel HP 12-Inch X 53 Lb	LF	1,125.000	1,125.000	
0082	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	33.000	33.000	
0082	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	262.000	262.000	
0086	602.0405	Concrete Sidewalk 4-Inch	SF	177.000	177.000	
0088	602.3010	Concrete Surface Drains	CY	2.000	2.000	
0090	606.0200	Riprap Medium	CY	46.000	46.000	
0090	606.0300	Riprap Heavy	CY	360.000	360.000	
0092	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	200.000	200.000	
0096	614.2300	MGS Guardrail 3	LF	52.000	52.000	
0098	614.2500	MGS Thrie Beam Transition	LF	160.000	160.000	
5555	S 2000			. 50.000	. 55.555	

0194

0196

ASP.1T0G On-the-Job Training Graduate at \$5.00/HR

SPV.0060 Special 01. Temporary Causeway

					2719-00-71	
.ine	Item	Item Description	Unit	Total	Qty	
00	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000	
2	618.0100	Maintenance and Repair of Haul Roads (project) 01. 2719-00-71	EACH	1.000	1.000	
4	619.1000	Mobilization	EACH	1.000	1.000	
6	624.0100	Water	MGAL	120.000	120.000	
8	625.0500	Salvaged Topsoil	SY	1,200.000	1,200.000	
0	627.0200	Mulching	SY	1,200.000	1,200.000	
2	628.1504	Silt Fence	LF	408.000	408.000	
4	628.1520	Silt Fence Maintenance	LF	408.000	408.000	
;		Silt Fence Heavy Duty	LF	778.000	778.000	
}		Silt Fence Heavy Duty Maintenance	LF	778.000	778.000	
)	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
	628.2027	Erosion Mat Class II Type C	SY	1,200.000	1,200.000	
· i	628.7555	Culvert Pipe Checks	EACH	20.000	20.000	
	629.0210	Fertilizer Type B	CWT	0.800	0.800	
)	630.0130	Seeding Mixture No. 30	LB	22.000	22.000	
	630.0200	Seeding Temporary	LB	22.000	22.000	
	630.0500	Seed Water	MGAL	27.000	27.000	
;	633.5200	Markers Culvert End	EACH	5.000	5.000	
	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	4.000	4.000	
	634.0816	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	4.000	4.000	
	637.2210	Signs Type II Reflective H	SF	14.000	14.000	
	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
	638.2602		EACH	8.000	8.000	
		Removing Signs Type II	EACH	8.000	8.000	
	638.3000 638.4000	Removing Small Sign Supports	EACH	4.000	4.000	
		Moving Small Sign Supports				
!	642.5001	Field Office Type B	EACH	1.000	1.000	
	643.0420	Traffic Control Barricades Type III	DAY	2,576.000	2,576.000	
	643.0705	Traffic Control Warning Lights Type A	DAY	3,680.000	3,680.000	
	643.0900	Traffic Central Signs PCMS	DAY	7,360.000	7,360.000	
	643.1050	Traffic Control Signs PCMS Traffic Control	DAY	14.000	14.000	
	643.5000		EACH	1.000	1.000	
	645.0111	Geotextile Type UP	SY	72.000	72.000	
	645.0120	Geotextile Type HR	SY	315.000	315.000	
	646.1020	Marking Line Epoxy 4-Inch	LF	1,538.000	1,538.000	
	650.4500	Construction Staking Subgrade	LF	652.000	652.000	
	650.5000	Construction Staking Base	LF	618.000	618.000	
	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	295.000	295.000	
	650.6000	Construction Staking Pipe Culverts	EACH	3.000	3.000	
	650.6501	Construction Staking Structure Layout (structure) 01. B-67-402	EACH	1.000	1.000	
	650.9911	Construction Staking Supplemental Control (project) 01. 2719-00-71	EACH	1.000	1.000	
	650.9920	Construction Staking Slope Stakes	LF	618.000	618.000	
	690.0150	Sawing Asphalt	LF	584.000	584.000	
5	715.0502	Incentive Strength Concrete Structures	DOL	3,539.400	3,539.400	
3	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000	
)		Installing and Maintaining Bird Deterrent System (station) 01. 25+50	EACH	1.000	1.000	
2	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,600.000	1,600.000	
1	A O D 4 TO O	On the Jak Training Creducts at #5 00/LD	LIDO	2 200 000	2 200 000	

HRS

EACH

3,200.000

1.000

3,200.000

1.000

11/13/2024 09:12:29

Estimate Of Quantities

Page 3

Line Item	Item Description	Unit	Total	Qty
V.0090	Special 01. Flashing Stainless Steel	LF	153.000	
)200 SPV.0180	Special 01. Enhanced Turbidity Barrier	SY	387.000	387.000

CLEARING	AND	GRU	JBBING	ò

						201.0105	201.0120	201.0205	201.0220
						CLEARING	CLEARING	GRUBBING	GRUBBING
_	CATEGORY	STATION	TO	STATION	LOCATION	STA	ID	STA	ID
	0010	24+02	-	-	RT	-	20	-	20
	0010	26+50	-	27+90	LT	1	-	1	-
					TOTAL	1	20	1	20

					203.0100 REMOVING	204.0150 REMOVING	204.0165	204.0190 REMOVING	
					SMALL PIPE	CURB &	REMOVING	SURFACE	
					CULVERTS	GUTTER	GUARDRAIL	DRAINS	
CATEGORY	STATION	TO	STATION	LOCATION	EACH	LF	LF	EACH	REMARKS
0010	22+54	-	-	LT & RT	1	-	-	-	PIPE ARCH CORRUGATED STEEL 36X54
0010	22+59	-	-	LT & RT	1	-	-	-	PIPE ARCH CORRUGATED STEEL 36X54
0010	24+17	-	24+82	LT & RT	-	-	126	-	
0010	24+81	-	24+91	LT & RT	-	20	144	-	
0010	26+13	-	26+23	LT & RT	-	20	126	-	
0010	26+12	-	26+83	LT & RT	-	-	144	-	
0010	24+68	-	-	LT & RT	-	-	-	2	
0010	26+28	-	-	LT & RT	-	-	-	2	
				TOTAL	2	40	540	4	

EARTHWORK QUANTITIES

DIVISION DIVISION 1	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.00	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW	COMMENT
South of Bridge North of Bridge	21+42.93/24+65.49 26+43.25/29+18.85	Center Drive Center Drive	200 143	200 143	464 271	464 271	-264 -128	0	264 128	
DIVISION 1 SUBTOTAL	20.13.23/23110.03	Certer Diffe	343	343	735	735	-392	0	392	
GRAND TOTAL			343	343	735	735	-392	0	392	

NOTES:

- (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- 5) AVAILABLE MATERIAL = CUT SALVAGED/UNUSUABLE PAVEMENT MATERIAL
- (6) MARSH EXCAVATION TO BE BACKFILLED WITH SELECT BORROW MATERIAL. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL. ITEM NUMBER 205.0500
- (7) ROCK EXCAVATION ITEM NUMBER 205.0200
- (13) EXPANDED FILL FACTOR = 1.00

DEPENDING ON SELECTIONS:

EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH - REDUCED EBS) * FILL FACTOR

OR EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED EBS) * FILL FACTOR
OR EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH) * FILL FACTOR

OR EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK) * FILL FACTOR

- (14) THE MASS ORDINATE + OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
- (15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

PROJECT NO: 2719-00-71 HWY: CENTER DRIVE COUNTY: WAUKESHA MISCELLANEOUS QUANTITIES SHEET: **E**

BASE AGGREGATE DENSE

305.0110 305.0120 624.0100 BASE AGGREGATE DENSE 3/4-BASE AGGREGATE WATER INCH DENSE 1 1/4-INCH CATEGORY STATION TO STATION LOCATION TON TON MGAL 0010 21+50 24+00 LT & RT 76 240 36 0010 24+00 24+76.42 LT & RT 20 170 26 0010 26+27.58 27+00 LT & RT 165 25 LT & RT 0010 27+00 29+19 43 220 33 TOTAL 157 795 120

CONCRETE PAVEMENT

					415.0100 CONCRETE	415.0410 CONCRETE
					PAVEMENT 10-	PAVEMENT
					INCH	APPROACH SLAB
CATEGORY	STATION	TO	STATION	LOCATION	SY	SY
0010	24+60.	-	24+76.42	LT & RT	5	40
0010	26+27.58	-	26+43	LT & RT	5	40
		-				
				TOTAL 0000	10	80

<u>ASPHALT</u>

					455.0605 TACK COAT	460.5223 HMA PAVEMENT 3 LT 58-28 S	460.5224 HMA PAVEMENT 4 LT 58-28 S	465.0105 ASPHALTIC SURFACE
CATEGORY	STATION	TO	STATION	LOCATION	GAL	TON	TON	TON
0010	21+50	-	24+00	LT & RT	10	8	6	16
0010	24+00	-	24+76.42	LT & RT	25	23	18	9
0010	26+27.58	-	27+00	LT & RT	20	21	17	8
0010	27+00	-	29+19	LT & RT	5	5	4	15
				TOTAL	60	57	45	48

PROJECT NO: 2719-00-71 HWY: CENTER DRIVE COUNTY: WAUKESHA MISCELLANEOUS QUANTITIES SHEET: **E**

CULVERTS

522.2334 522.2634 530.0112 633.5200

	APRON ENDWALLS
CULVERT PIPE	FOR CULVERT PIPE
REINFORCED	REINFORCED
CONCDETE	CONCRETE

					REINFORCED CONCRETE HORIZONTAL	REINFORCED CONCRETE HORIZONTAL	CULVERT PIPE CORRUGATED	
					ELLIPTICAL CLASS	ELLIPTICAL 34X53-	POLYETHYLENE 12-	MARKERS
					HE-III 34X53-INCH	INCH	INCH	CULVERT END
CATEGORY	STATION	TO	STATION	LOCATION	LF	EACH	LF	EACH
0010	22+54	-	-	LT & RT	40	2	-	2
0010	22+59	-	-	LT & RT	40	2	-	2
0010	26+75	-	-	LT	-	-	96	1

CONCRETE ITEMS

TOTAL

					601.0409 CONCRETE CURB	601.0411 CONCRETE CURB	602.0405	602.3010
					& GUTTER 30-	& GUTTER 30-	CONCRETE	CONCRETE
					INCH TYPE A	INCH TYPE D	SIDEWALK 4-INCH	SURFACE DRAINS
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	SF	CY
0010	23+28	-	-	RT	-	-	-	2
0010	23+34	-	24+60	RT	-	131	-	-
0010	24+60	-	24+76.42	LT & RT	17	-	90	-
0010	26+27.58	-	26+43	LT & RT	16	-	87	-
0010	26+43	-	27+75	RT	-	131	-	-
0010	27+80	-	-	RT	-	-	-	2
				TOTAL	33	262	177	2

EROSION CONTROL

						*								
					606.0200	606.0300	628.1504	628.1520	628.1530.S	628.1535.S	628.1905	628.1910 MOBILIZATIONS	628.7555	SPV.0180.01
										SILT FENCE HEAVY	MOBILIZATIONS	EMERGENCY		SPECIAL (01.
					RIPRAP	RIPRAP		SILT FENCE	SILT FENCE HEAVY	DUTY	EROSION	EROSION	CULVERT PIPE	ENHANCED
					MEDIUM	HEAVY	SILT FENCE	MAINTENANCE	DUTY	MAINTENANCE	CONTROL	CONTROL	CHECKS	TURBIDITY BARRIER)
CATEGORY	STATION	TO	STATION	LOCATION	CY	CY	LF	LF	LF	LF	EACH	EACH	EACH	SY
0010	21+50	_	25+00	LT	15	150	-	-	202	202	-	-	-	110
0010	21+50	-	25+00	RT	19	-	-	-	416	416	-	-	20	53
0010	26+00	-	29+19	LT	-	-	201	201	88	88	-	-	-	49
0010	26+00	-	29+19	RT	-	-	207	207	72	72	-	-	-	54
0010	23+29	-	-	RT	6	-	-	-	-	-	-	-	-	-
0010	27+80	-	-	RT	6	-	-	-	-	-	-	-	-	-
0010	-	-	-	TEMPORARY CAUSEWAY	-	-	-	-	-	-	1	1	-	121
0010	-	-	-	UNDISTRIBUTED	-	-	-	-	-	-	2	2	-	-
				ΤΟΤΔΙ	46	150	408	408	778	778	3	3	20	387

* QUANTITY SHOWN ELSEWHERE IN THE PLANS

PROJECT NO: 2719-00-71 HWY: CENTER DRIVE COUNTY: WAUKESHA MISCELLANEOUS QUANTITIES SHEET: **E**

GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
CATEGORY	STATION	10	STATION	LOCATION	LΓ	LF	ЕАСП
0010 0010 0010 0010	23+57.44 23+66.71 26+35.71 26+35.23	- - -	24+66.07 24+66.57 27+40.73 27+41.21	LT RT LT RT	13 13 13 13	40 40 40 40	1 1 1 1
				TOTAL	52	160	4

RESTORATION ITEMS

					625.0500 SALVAGED	627.0200	628.2027 EROSION MAT	629.0210	630.0130 SEEDING MIXTURE	630.0200 SEEDING	630.0500	
					TOPSOIL	MULCHING	CLASS II TYPE C	FERTILIZER TYPE B	NO. 30	TEMPORARY	SEED WATER	
CATEGORY	STATION	TO	STATION	LOCATION	SY	SY	SY	CWT	LB	LB	MGAL	REMARKS
0010	21+50	-	25+00	LT	160	-	160	0.10	3	-	4	
0010	21+50	-	25+00	RT	566	-	566	0.36	10	-	13	
0010	26+00	-	29+19	LT	314	-	314	0.20	6	-	7	
0010	26+00	-	29+19	RT	160	-	160	0.10	3	-	4	
0010	21+50	-	29+19	UNDISTRIBUTED	-	1,200	-	-		22	-	TO BE USED WHEN PERMANENT SEEDING NOT PLACED WITHIN 5 DAYS OF DISTURBANCE
				TOTAL	1.200	1.200	1.200	0.8	22	22	27	-

PROJECT NO: 2719-00-71 HWY: CENTER DRIVE COUNTY: WAUKESHA MISCELLANEOUS QUANTITIES SHEET: **E**

DETOUR 643.0420 643.0705 643.0900 643.1050 TRAFFIC CONTROL SIGNS TRAFFIC CONTROL WARNING TRAFFIC CONTROL TRAFFIC CONTROL SIGNS BARRICADES TYPE III LIGHTS TYPE A PCMS CATEGORY DAYS NO. DAY NO. DAY NO. DAY 14 2,576 3,680 0010 184 7,360 14 2,576 TOTAL 3,680 7,360 PAVEMENT MARKING 646.1020 MARKING LINE EPOXY 4-INCH CATEGORY STATION TO STATION LOCATION REMARKS 0010 21+50 29+19 CENTER DR 1,538 DOUBLE YELLOW 1,538 TOTAL STAKING ITEMS 650.4500 650.5000 650.5500 650.6000 650.6501.01 650.9911.01 650.9920 CONSTRUCTION CONSTRUCTION STAKING STAKING CONSTRUCTION STRUCTURE SUPPLEMENTAL CONSTRUCTION STAKING CURB CONSTRUCTION LAYOUT CONTROL CONSTRUCTION STAKING CONSTRUCTION **GUTTER AND CURB** STAKING PIPE (STRUCTURE) (01. (PROJECT) (01. STAKING SLOPE SUBGRADE STAKING BASE & GUTTER CULVERTS B-67-402) 2719-00-71) STAKES CATEGORY STATION TO STATION LOCATION EACH EACH EACH LF 0010 22+54 LT & RT 0010 22+59 LT & RT 0010 LT 0010 21+50 - 24+76.52 LT & RT 326 326 326 0010 - 26+27.58 LT & RT 24+76.52 LT & RT 0010 26+27.58 - 29+19 326 292 292 0010 23+34 - 24+76.42 RT 148 RT 0010 26+27.58 - 27+75 147 0010 CENTER DR TOTAL 652 618 295 618 HWY: CENTER DRIVE COUNTY: WAUKESHA Ε PROJECT NO: 2719-00-71 MISCELLANEOUS QUANTITIES SHEET:

SAWING ASPHALT

690.0150

					SAWING ASPHALT
CATEGORY	STATION	TO	STATION	LOCATION	LF
0010	22+44.70	-	-	LT & RT	22
0010	22+67.86	-	-	LT & RT	22
0010	22+60	-	24+00	RT	140
0010	23+10	-	24+00	LT	90
0010	24+00	-	-	LT & RT	22
0010	27+00	-	-	LT & RT	22
0010	27+00	-	27+86	LT	86
0010	27+00	-	28+80	RT	180
				TOTAL 0000	584

SIGNING

						634.0814	634.0816	637.2210	637.2230	638.2602	638.3000	638.4000	
						POSTS TUBULAR STEEL 2X2-INCH X	POSTS TUBULAR STEEL 2X2-INCH X	SIGNS TYPE II	SIGNS TYPE II	REMOVING SIGNS	REMOVING SMALL	MOVING SMALL	
						14-FT	16-FT	REFLECTIVE H	REFLECTIVE F	TYPE II	SIGN SUPPORTS	SIGN SUPPORTS	
CATEGORY	SIGN # ON PLAN	PROPOSED SIGN #	STATION	LOCATION	SIZE	EACH	EACH	SF	SF	EACH	EACH	EACH	REMARKS
0010	E-1	-	23+50	LT	- X -	-	-	-	-	1	1	-	NO PARKING
0010	E-2	-	23+62	LT	- X -	-	-	-	-	-	-	1	TOWN OF VERNON SIGN
0010	E-3	_	24+17	LT	- X -	_	-	_	-	1	1	_	NO PARKING THIS SIDE OF STREET
0010	E-4	_	24+62	LT	- X -	_	-	_	-	1	1	_	-
0010	E-5	-	26+38	LT	- X -	-	-	-	-	1	1	-	-
0010	E-6	-	27+56	LT	- X -	-	-	-	-	-	-	1	TOWN OF VERNON SIGN
0010	E-7	-	27+94	LT	- X -	-	-	-	-	1	1	-	NO PARKING
0010	E-8	-	23+82	RT	- X -	-	-	-	-	-	-	1	SHOOTING PRESERVE
0010	E-9	-	24+64	RT	- X -	-	-	-	-	1	1	-	-
0010	E-10	-	24+70	RT	- X -	-	-	-	-	1	1	-	NO PARKING ON BRIDGE
0010	E-11	-	26+28	RT	- X -	-	-	-	-	-	-	-	PRESERVE
0010	E-12	-	26+34	RT	- X -	-	-	-	-	1	1	-	-
0010	E-13	-	26+45	RT	- X -	-	-	-	-	-	-	1	TOWN OF VERNON SIGN
0010	P-1	R7-1D	23+39	LT	18" X 24"	1	-	3	-	-	-	-	NO PARKING ANYTIME
0010	P-2	W5-52L	24+17	LT	12" X 36"	-	1	-	3	-	-	-	-
0010	P-3	W5-52R	26+38	LT	12" X 36"	-	1	-	3	-	-	-	-
0010	P-4	R7-1D	27+56	LT	18" X 24"	1	-	3	-	-	-	-	NO PARKING ANYTIME
0010	P-5	R7-1D	23+05	RT	18" X 24"	1	-	3	-	-	-	-	NO PARKING ANYTIME
0010	P-6	W5-52R	24+64	RT	12" X 36"	-	1	-	3	-	-	-	-
0010	P-7	R8-52	24+70	RT	24" X 30"	1		5		-	-		NO PARKING ON BRIDGE
0010	P-8	W5-52L	26+45	RT	12" X 36"	-	1	-	3	-	-	-	-
				TOTAL				14	12	8	8		

PROJECT NO: 2719-00-71 HWY: CENTER DRIVE COUNTY: WAUKESHA MISCELLANEOUS QUANTITIES SHEET: **E**

R/W MONUMENT (TO BE SET)

R/W POINT

OFF-PREMISE

NON-MONUMENTED O

Н

11111111

000000000

UTILITY NUMBER (40)

PCC

(100')

RDE

SFPV

TLE

TPP

Δ/DELTA

CABLE TELEVISION

SANITARY SEWER

ABANDONED UTILITY

STORM SEWER

FIBER OPTIC

FOUND IRON PIN (1-INCH UNLESS NOTED)

CONVENTIONAL SYMBOLS

SYMBOL

SECTION

CORNER

MONLIMENT

ELECTRIC POLE

TELEPHONE POLE

PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)

1111111111

AR

FT AI

CSM

CONC

CRD

CTH DIST

COR

EASE

NGS

PLE

CONVENTIONAL ABBREVIATIONS

CULVERT T

GEODETIC SURVEY MONUMENT

SIXTEENTH CORNER MONUMENT

ACCESS RESTRICTED BY ACQUISITION

ACCESS RESTRICTED (BY PREVIOUS

PROJECT OR CONTROL)

NO ACCESS (NEW HIGHWAY)

PARALLEL OFFSETS

POINT OF CURVATURE

PROPERTY LINE

RECORDED AS

REEL / IMAGE

REMAINING

RIGHT

SECTION

STATION

VOLUME

LONG CHORD

REFERENCE LINE

EASEMENT

RIGHT OF WAY

SEPTIC VENT

SQUARE FEET

SHED OR POLE BARN

STATE TRUNK HIGHWAY

TELEPHONE PEDESTAL

TEMPORARY LIMITED

UNITED STATES HIGHWAY

LONG CHORD BEARING

DEGREE OF CURVE

CENTRAL ANGLE

TANGENT

LENGTH OF CURVE

DIRECTION AHEAD

TRANSPORTATION PROJECT PLAT

CURVE DATA ABBREVIATIONS

EASEMENT

POINT OF COMPOUND CURVE

POINT OF INTERSECTION

RESTRICTIVE DEVELOPMENT

NO ACCESS (BY STATUTORY AUTHORITY)

SECTION LINE

CUARTER LINE

SIXTEENTH LINE

NEW R/W LINE

PROPERTY LINE

LOT, TIE & OTHER MINOR LINES

SLOPE INTERCEPT

CORPORATE LIMITS

UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC

NEW R/W (FEE OR HE

TEMPORARY LIMITED

(PERMANENT LIMITED OR

RESTRICTED DEVELOPMENT)

TRANSMISSION STRUCTURES

EASEMENT AREA

ACCESS RIGHTS

AND OTHERS

ACRES

AHEAD ALUMINUM

BACK

BLOCK

BUILDING

CENTERLINI

CONCRETE

COORDINATE

DISTANCE

CORNER

FASEMENT

GAS VALVE

GRID NORTH

IDENTIFICATION

LAND CONTRACT

MONUMENT

NUMBER

OUTLOT

EXISTING

GARAGE

CERTIFIED SURVEY MAP

COUNTY TRUNK HIGHWAY

DOCUMENT NUMBER

HIGHWAY FASEMENT

POINT OF TANGENCY

PERMANENT LIMITED

POINT OF BEGINNING

EASEMENT

NATIONAL GEODETIC SURVEY

NEW REFERENCE LINE

EXISTING R/W OR HE LINE

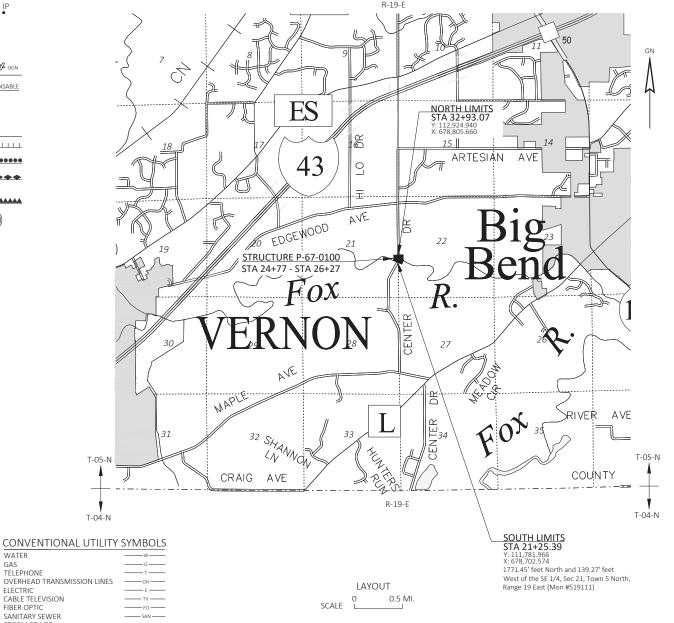
STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION** TRANSPORTATION PROJECT PLAT TITLE SHEET 2719-00-01

V VERNON - CENTER DRIVE

BRIDGE OVER FOX RIVER. P-67-0100

CENTER DRIVE

WAUKESHA COUNTY



THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 2719-00-01

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), RACINE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES, GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY AND PERMANENT EASEMENT MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾ X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, CENTERLINE OF EXISTING PAVEMENTS AND/OR EXISTING OCCUPATIONAL LINES.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES. AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS. AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.

PROPERTY LINES SHOWN ON THIS PLAT FOR PROPERTIES BEING IMPACTED ARE DRAWN FROM DATA DERIVED FROM FILED/RECORDED MAPS AND DOCUMENTS OF PUBLIC RECORD. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY. SOUTHEAST REGION, CITY OF WAUKESHA

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE TPP DETAIL PAGES.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE TPP DETAIL PAGES

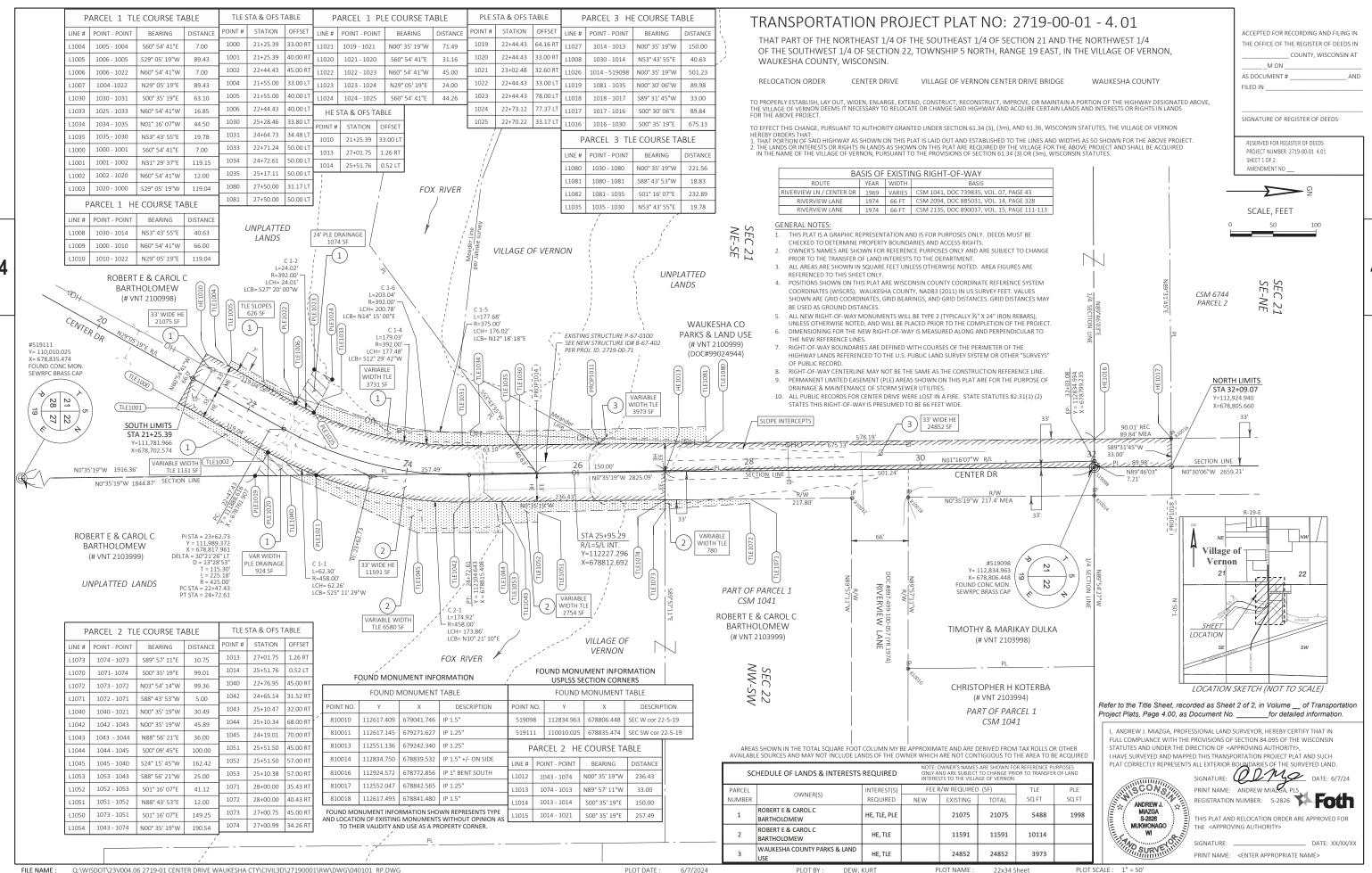
Refer to the Detail Sheet, recorded as Sheet 1 of 2, in Volume of Transportation Project Plats, Page 4.01, as Document No. for detailed information

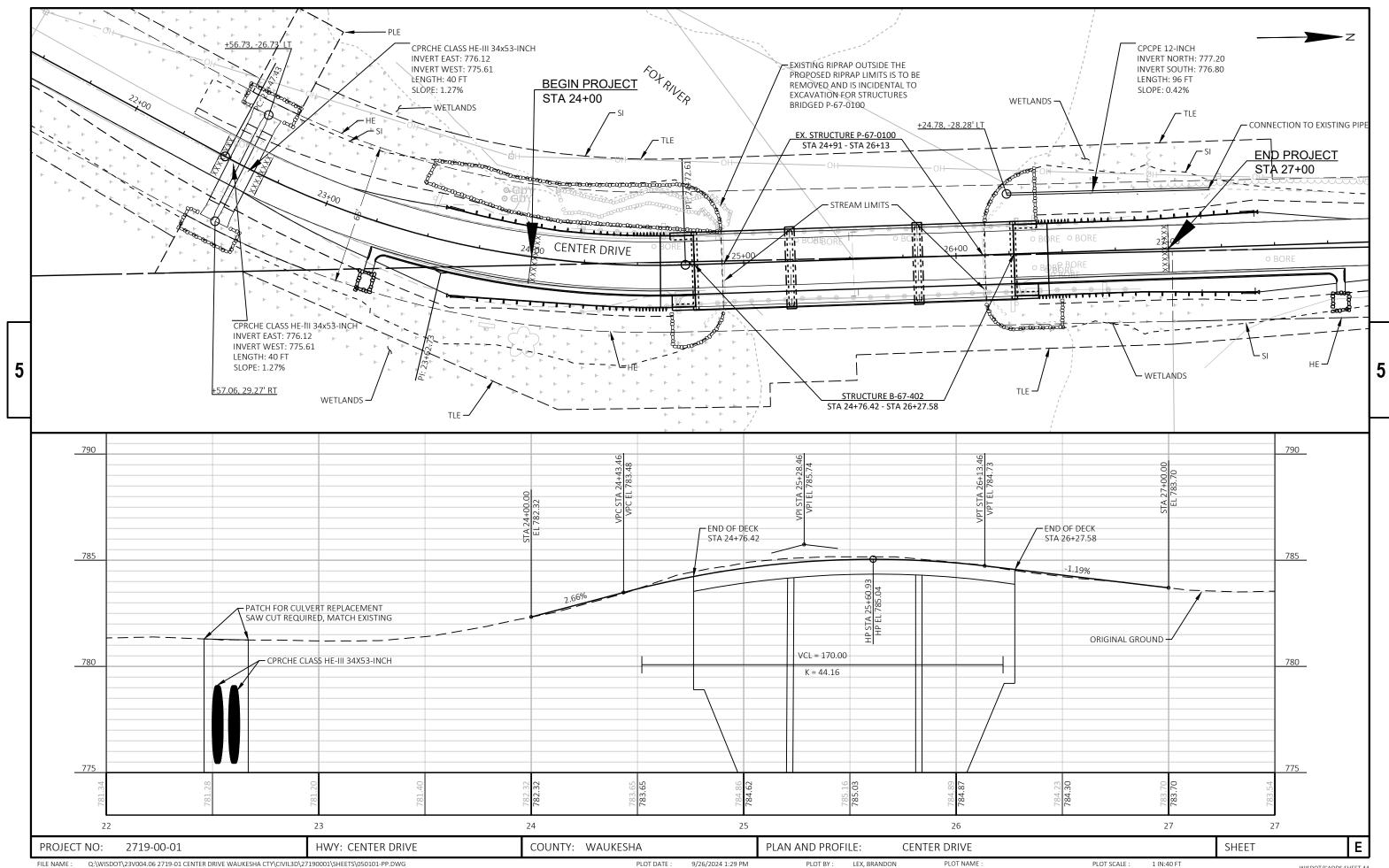
PROJECT NUMBER 2719-00-01 - 4. 00 SHEET 2 OF 2

Q:\WISDOT\23V004.06 2719-01 CENTER DRIVE WAUKESHA CTY\CIVIL3D\27190001\RW\DWG\040100-RT.DWG

6/7/2024

DEW, KURT

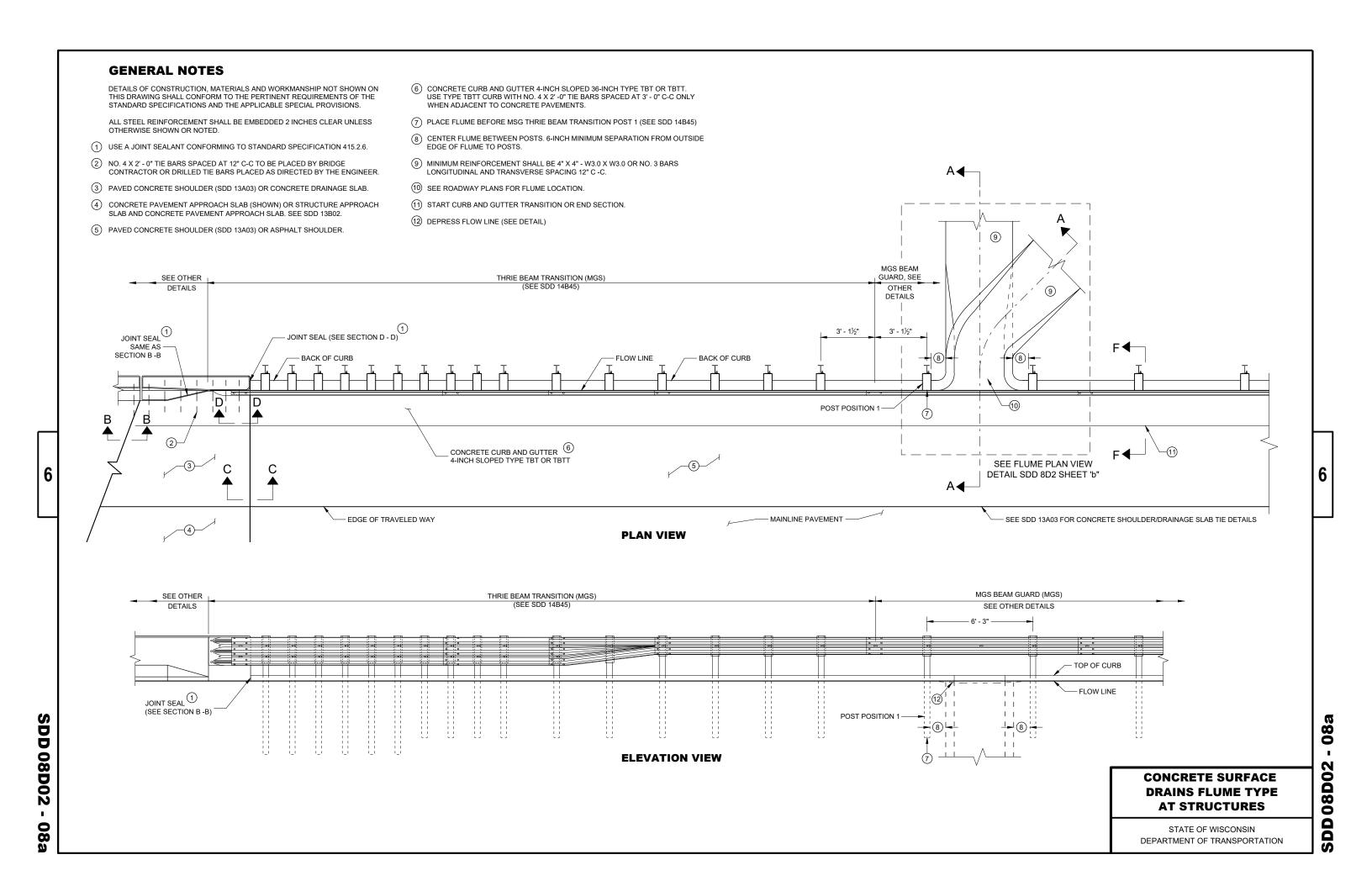


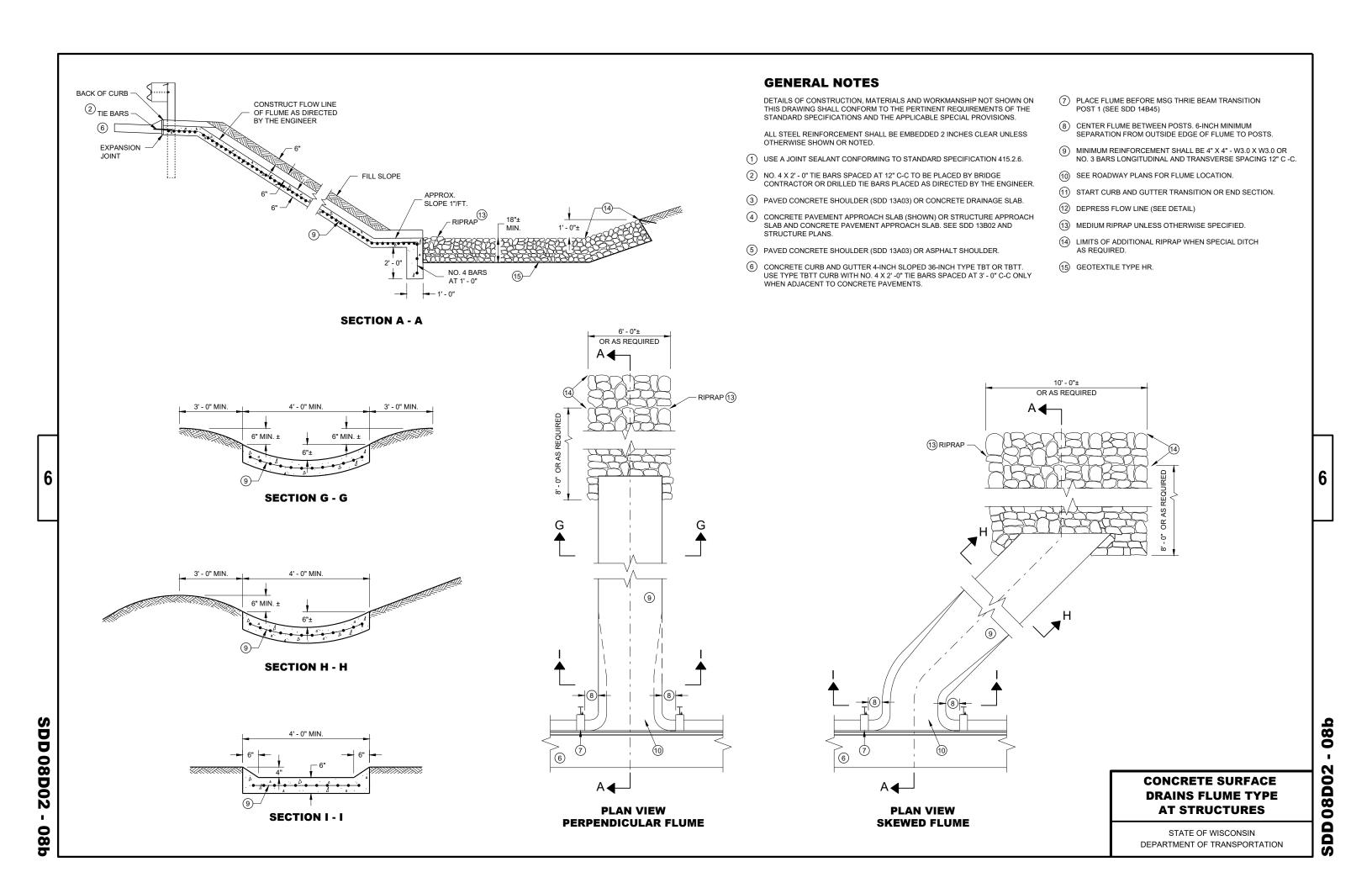


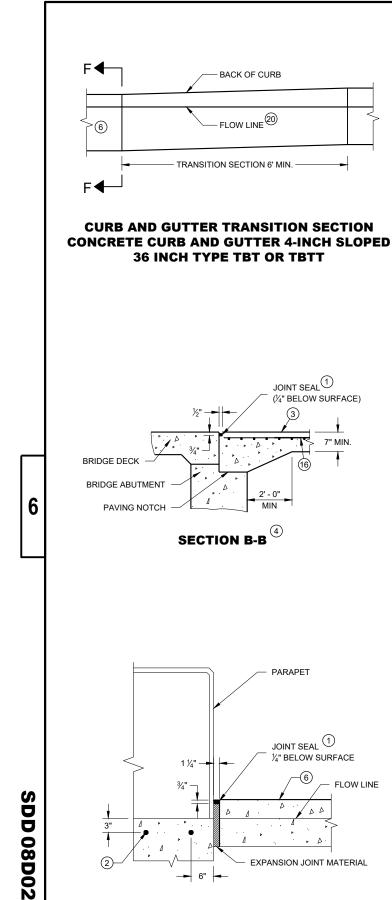
Standard Detail Drawing List

08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E09-06	SILT FENCE
08E15-01	CULVERT PIPE CHECK
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
12A03-10	NAME PLATE (STRUCTURES)
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C19-03	HMA LONGITUDINAL JOINTS
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14в42-07в	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14в45-05н	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14в45-05к	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15А03-02В	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15с02-09в	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-23A	PERMANENT LONGTTUDTNAL PAVEMENT MARKINGS

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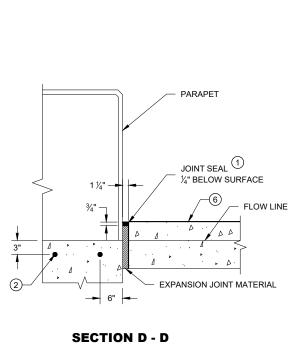






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SECTION B-B

BACK OF CURB

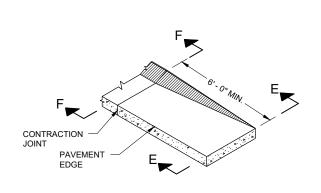
FLOW LINE 20

JOINT SEAL 1

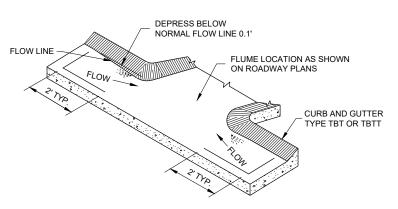
(1/4" BELOW SURFACE)

7" MIN.

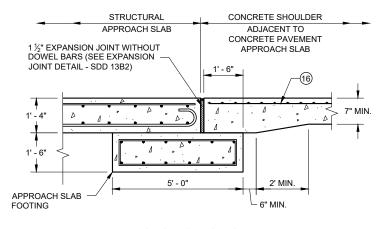
TRANSITION SECTION 6' MIN.



CURB AND GUTTER END SECTION CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



CURB AND GUTTER FLOW LINE DEPRESSION AT FLUMES CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT

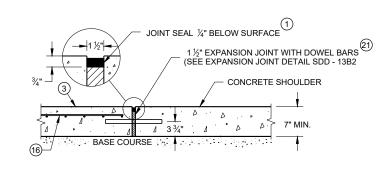


SECTION C - C JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB

FINISHED

SHOULDER

6" MIN



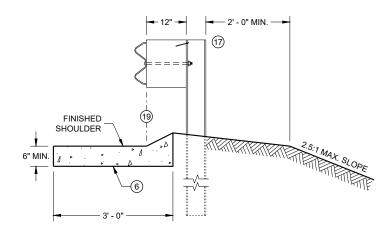
SECTION C - C JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS

- (1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
- (2) NO. 4 X 2' 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
- (3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.
- (4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.
- (5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.
- (6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.
- 7 PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
- 8 CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.
- 9 MINIMUM REINFORCEMENT SHALL BE 4" X 4" W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.
- (10) SEE ROADWAY PLANS FOR FLUME LOCATION.
- (11) START CURB AND GUTTER TRANSITION OR END SECTION.
- (12) DEPRESS FLOW LINE (SEE DETAIL)
- (13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
- (14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.
- (15) GEOTEXTILE TYPE HR.
- (16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.
- (7) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.
- (18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.
- (19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.
- 20 MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.
- (21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



SECTION F - F

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

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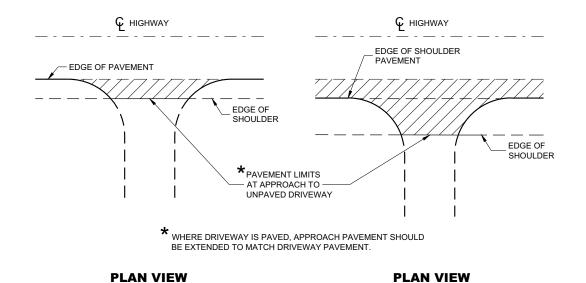
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE /S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER

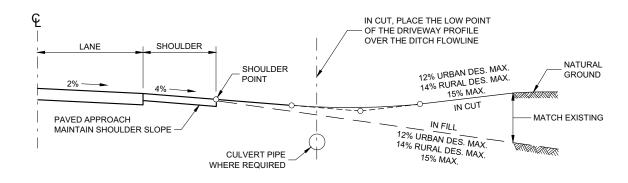
SECTION E - E

2' - 0" MIN. —

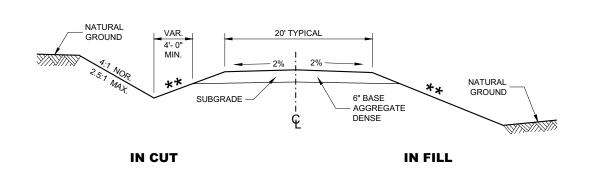


RURAL DRIVEWAY INTERSECTION DETAIL (NO CURB AND GUTTER OR SIDEWALK)

(PAVED SHOULDER ON HIGHWAY)



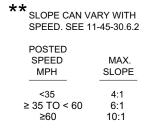
TYPICAL DRIVEWAY PROFILES

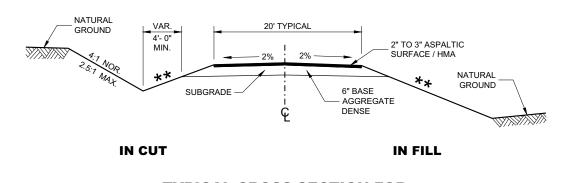


TYPICAL CROSS SECTION FOR

PRIVATE DRIVE OR FIELD ENTRANCE **AGGREGATE SURFACE**

(UNPAVED SHOULDER ON HIGHWAY)





TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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SDD 08D21

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December 2017 DATE

TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- \bigcirc HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

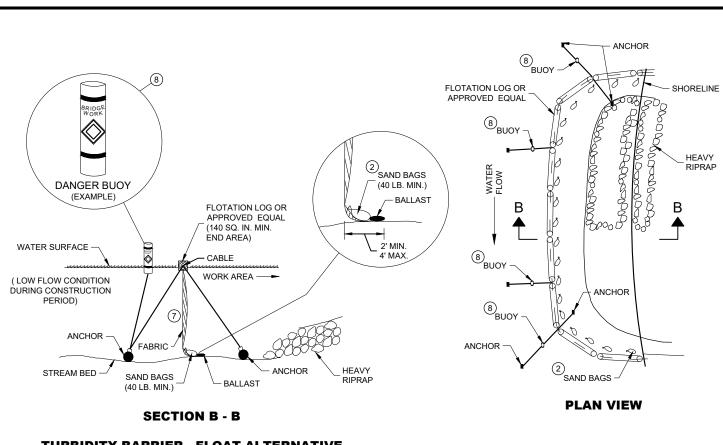
(WHEN REQUIRED BY THE ENGINEER)



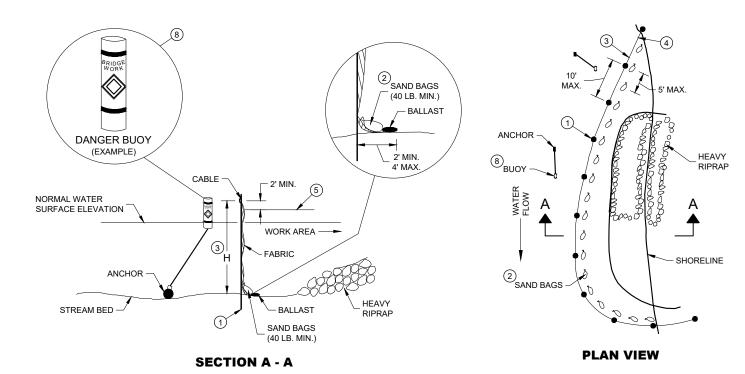
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D.D. 8 E 9-6



TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6



TURBIDITY BARRIER - STANDARD POST INSTALLATION

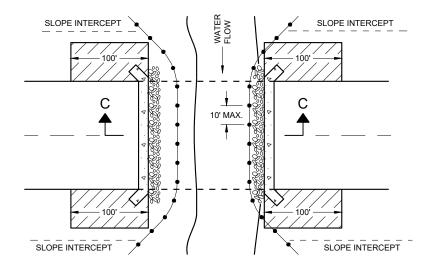
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

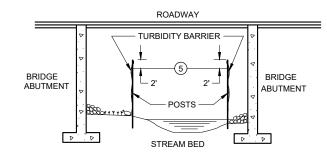
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH
- (2) SAND BAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT "H" EXCEEDS 8 FEET, POST SPACING MAY NEED TO BE DECREASED.
- (4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C - C

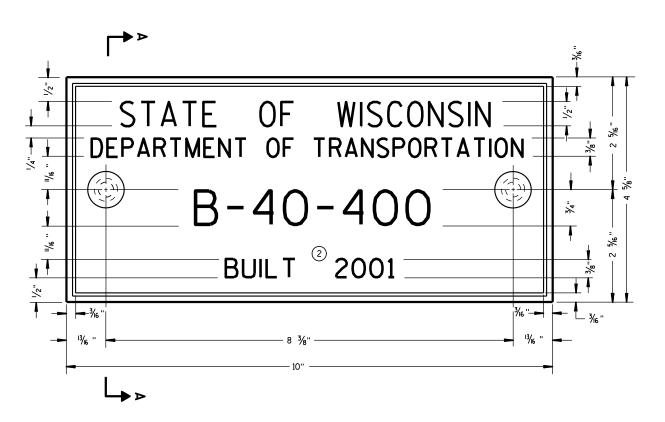
TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ∞

APPROVED /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT
ENGINEER 6/4/02 DATE





TYPICAL NAME PLATE (BRIDGES, CULVERTS, AND RETAINING WALLS)

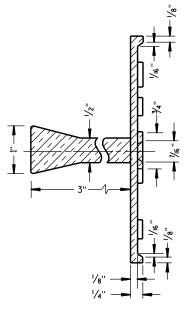
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

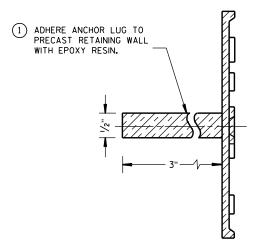
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE
TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

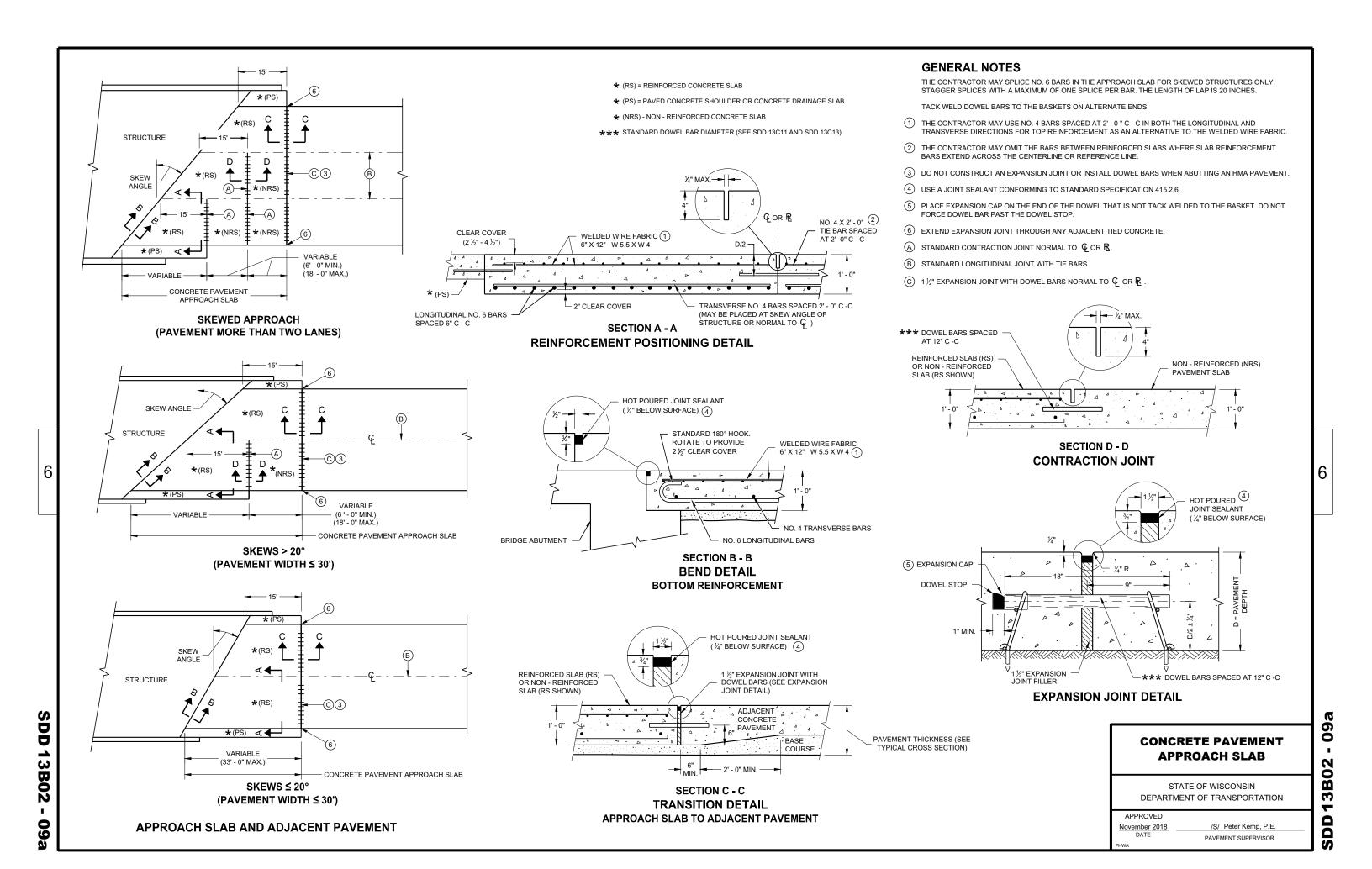
(FOR ATTACHMENT TO PRECAST STRUCTURES)

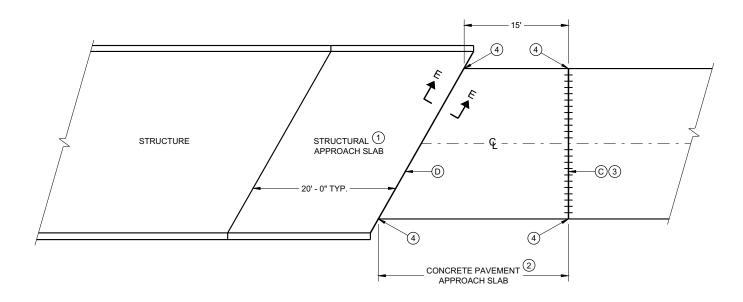
NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

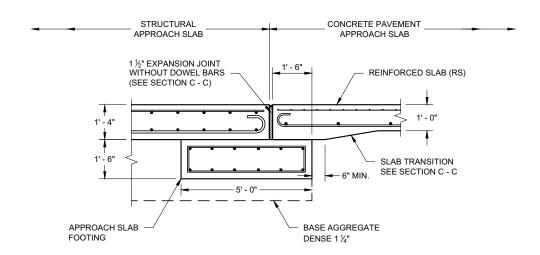
APPROVED

 D.D. 12 A 3-10





BRIDGE APPROACHES



SECTION E - E FOOTING DETAIL STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

GENERAL NOTES

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE PAVEMENT APPROACH SLAB.

- (1) SEE BRIDGE PLAN.
- (2) CONFORM TO SDD 13B02 SHEET A FOR CONCRETE PAVEMENT APPROACH SLAB DETAILS
- \bigcirc DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.
- 4 EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.
- © 1½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO GOR R.
- D 1 ½" EXPANSION JOINT (NO DOWELS)

STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT **APPROACH SLAB**

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

November 2018 DATE

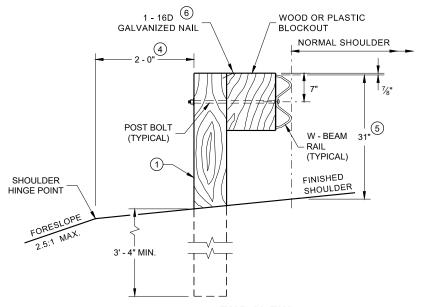
/S/ Peter Kemp P.E. PAVEMENT SUPERVISOR

3B02 SDD

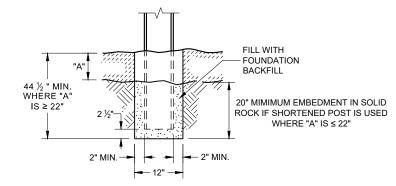
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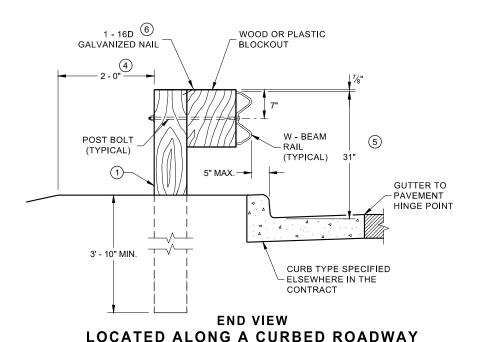
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $\fill \ensuremath{\texttt{5}}$ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS \$\pm1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 % " TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.
- \bigcirc TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".

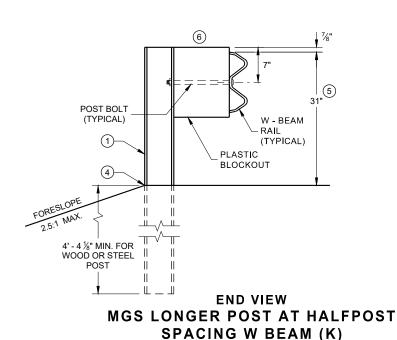


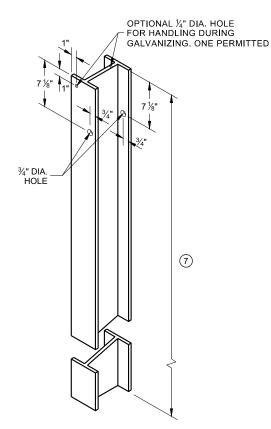
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



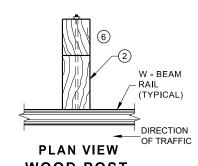
SETTING STEEL OR WOOD POST IN ROCK



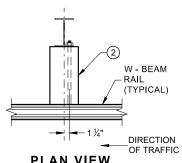




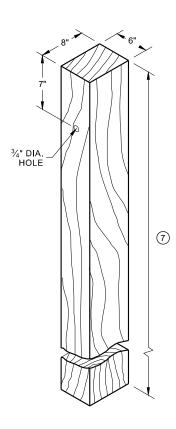
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



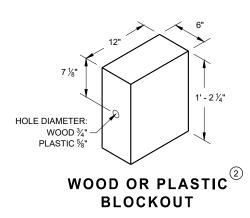
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

FRONT VIEW HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

6' 3" C - C

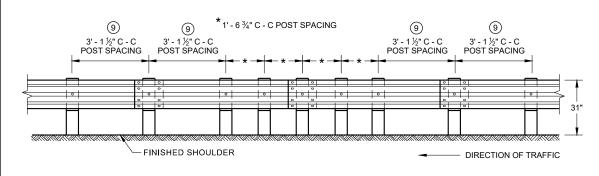
POST SPACING

DIRECTION OF TRAFFIC

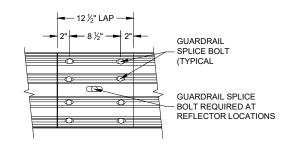
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW
QUARTER POST SPACING (QS)



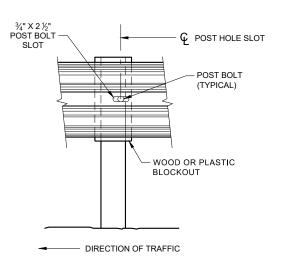
FRONT VIEW
MID-SPAN BEAM SPLICE

GENERAL NOTES

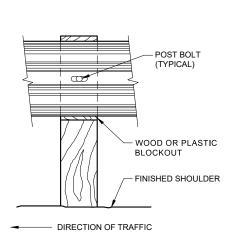
- 8 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

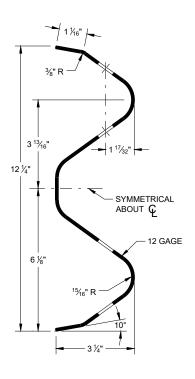
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



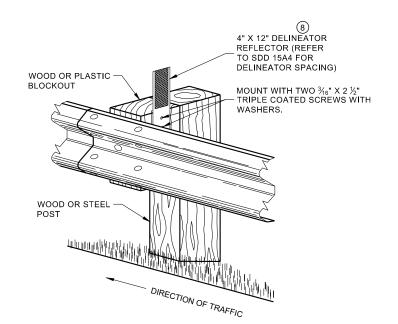
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

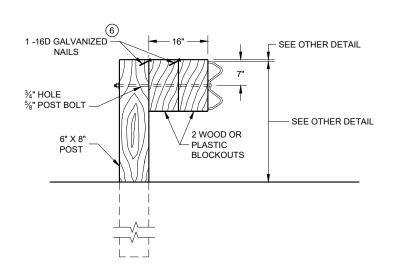
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SDD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

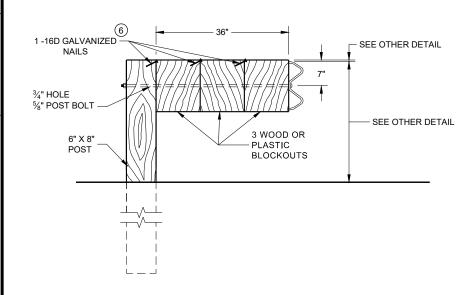
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6



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



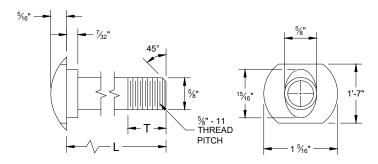
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

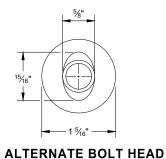
NOTE:

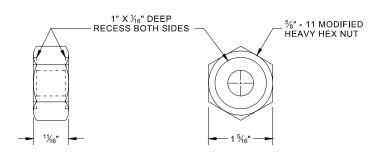
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

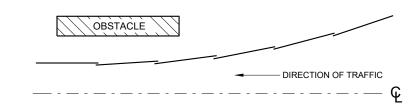
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



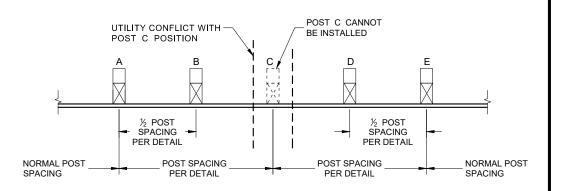


POST BOLT, SPLICE BOLT **AND RECESS NUT**

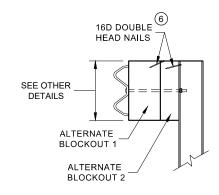
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

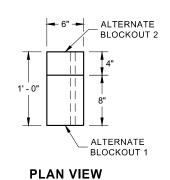


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

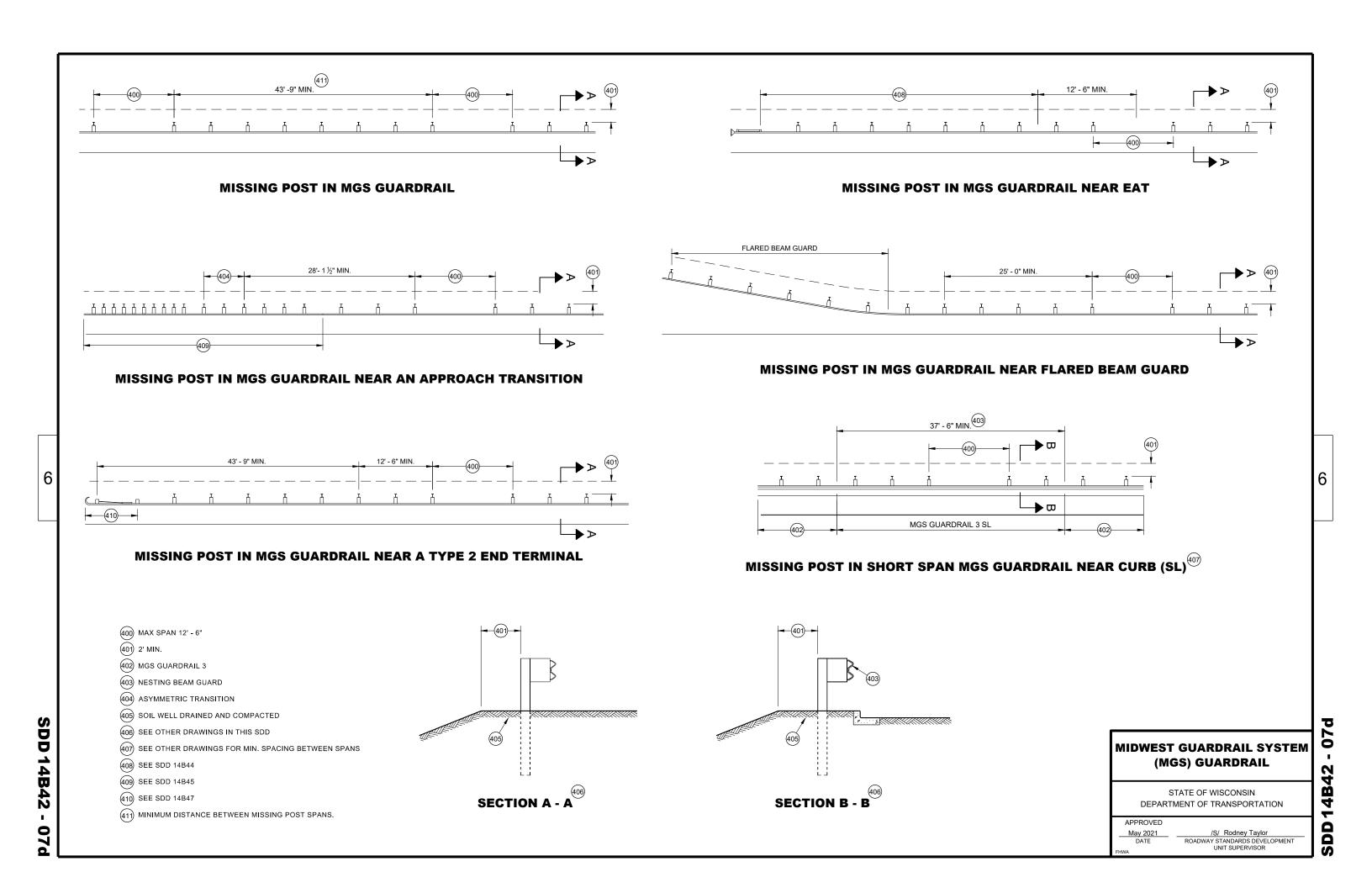
ALTERNATE WOOD BLOCKOUT DETAIL

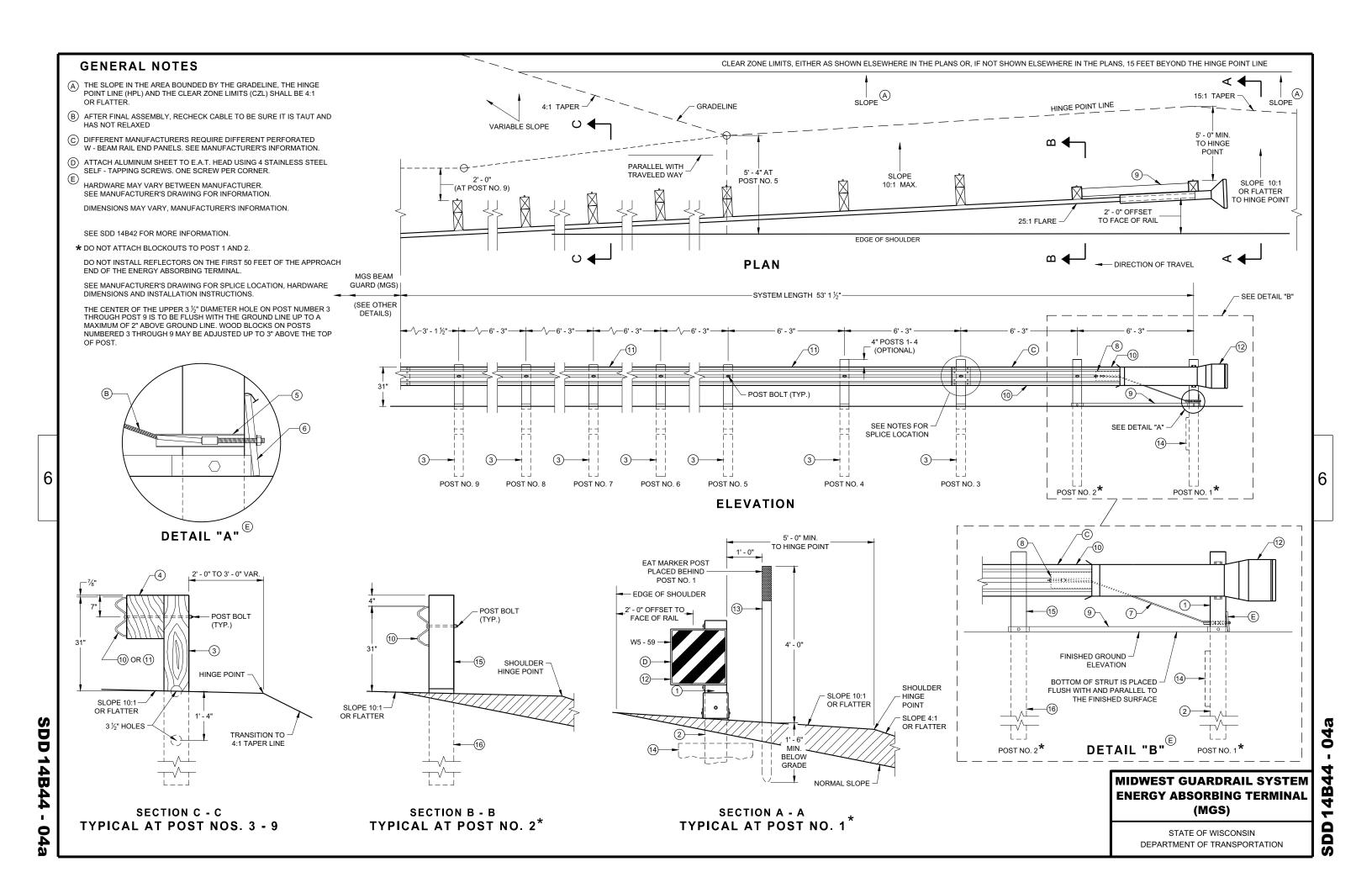
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

07

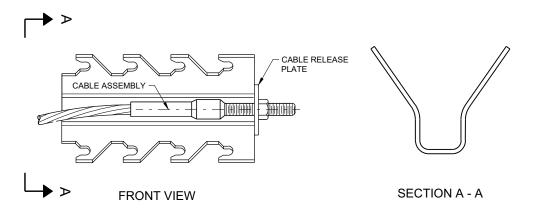
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

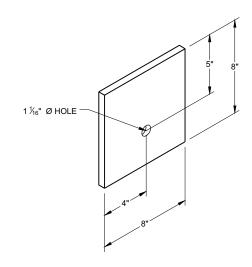




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX ^{(9) (E)}



BEARING PLATE

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

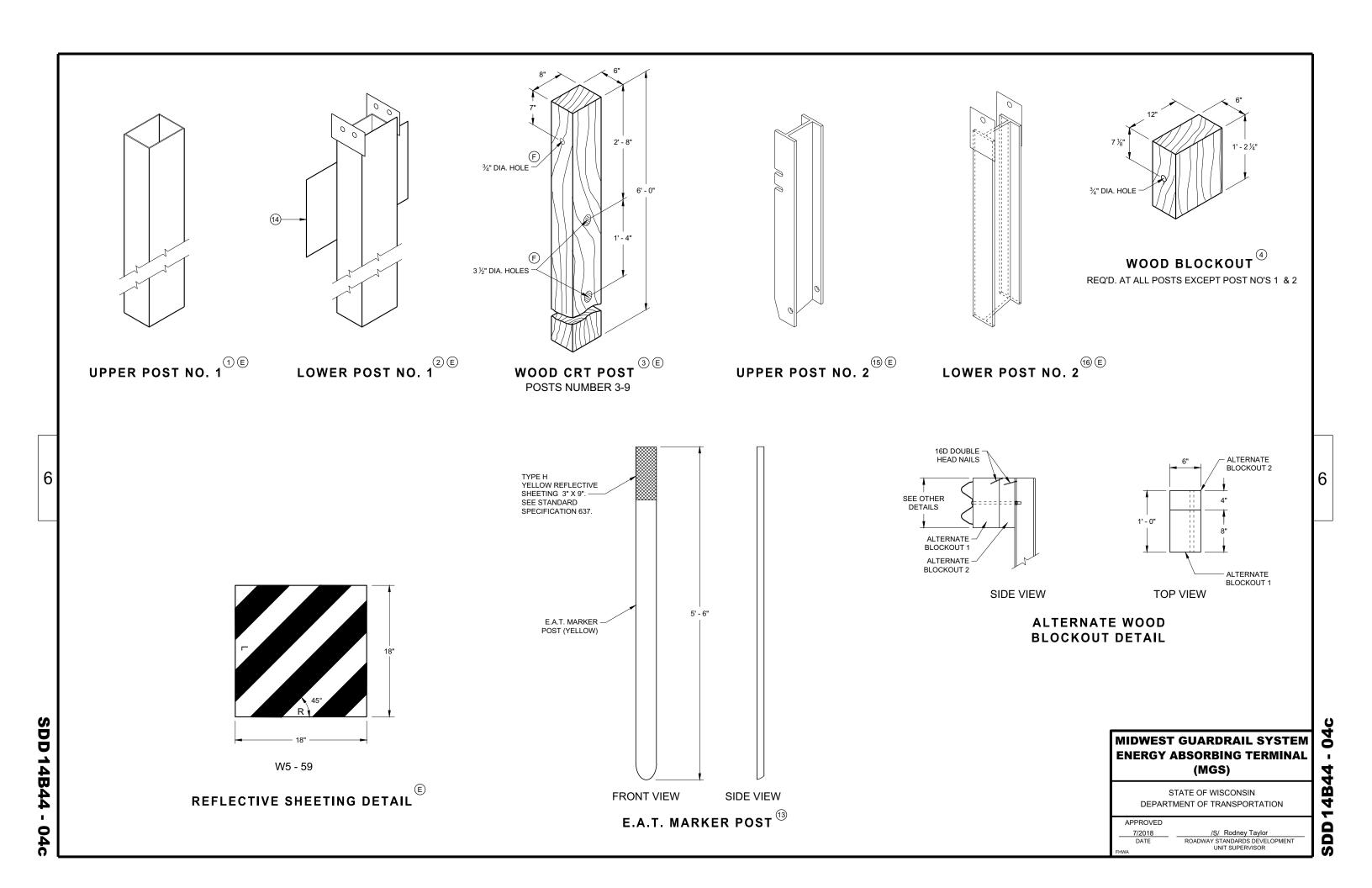
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

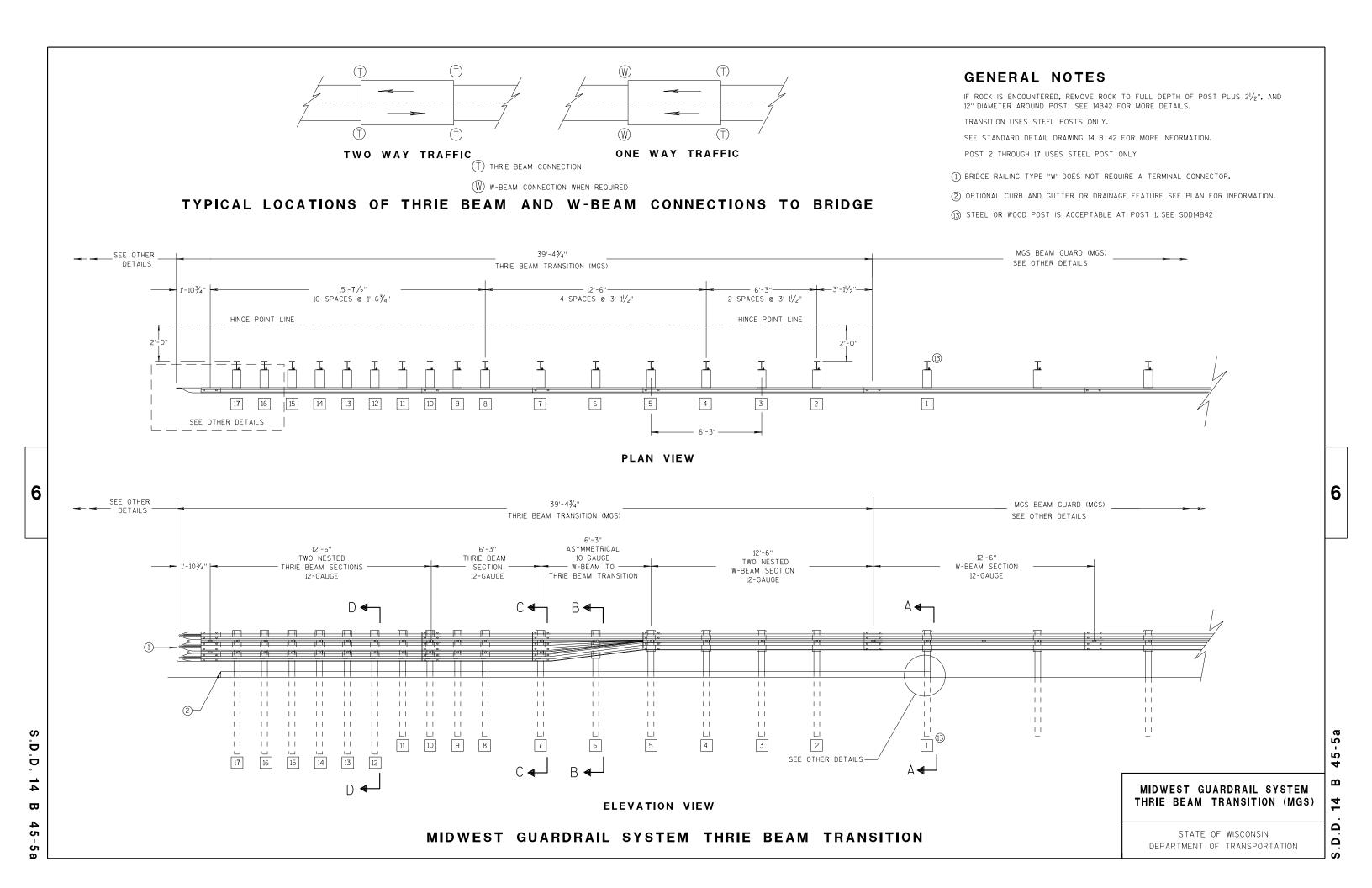
6

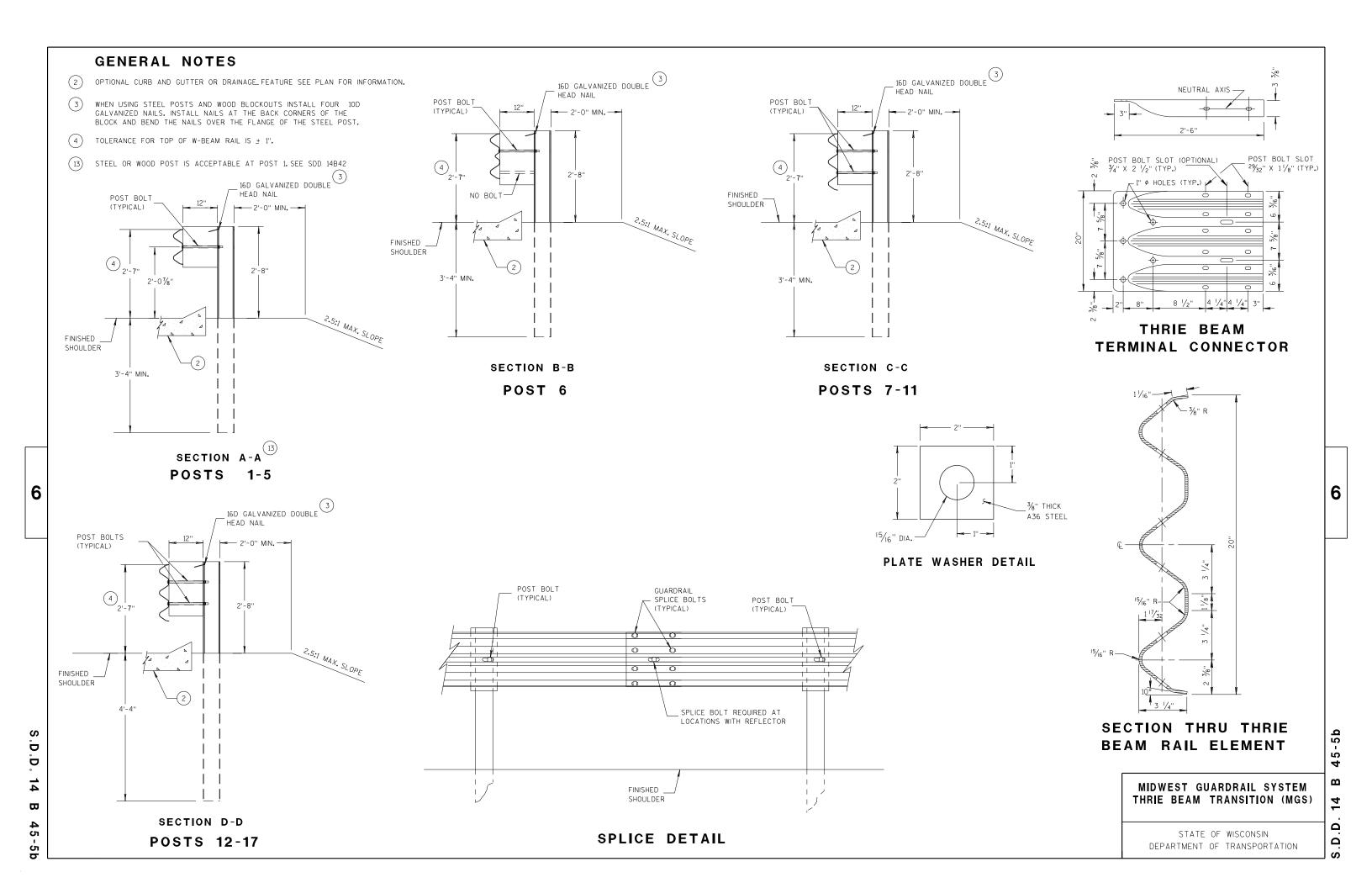
O

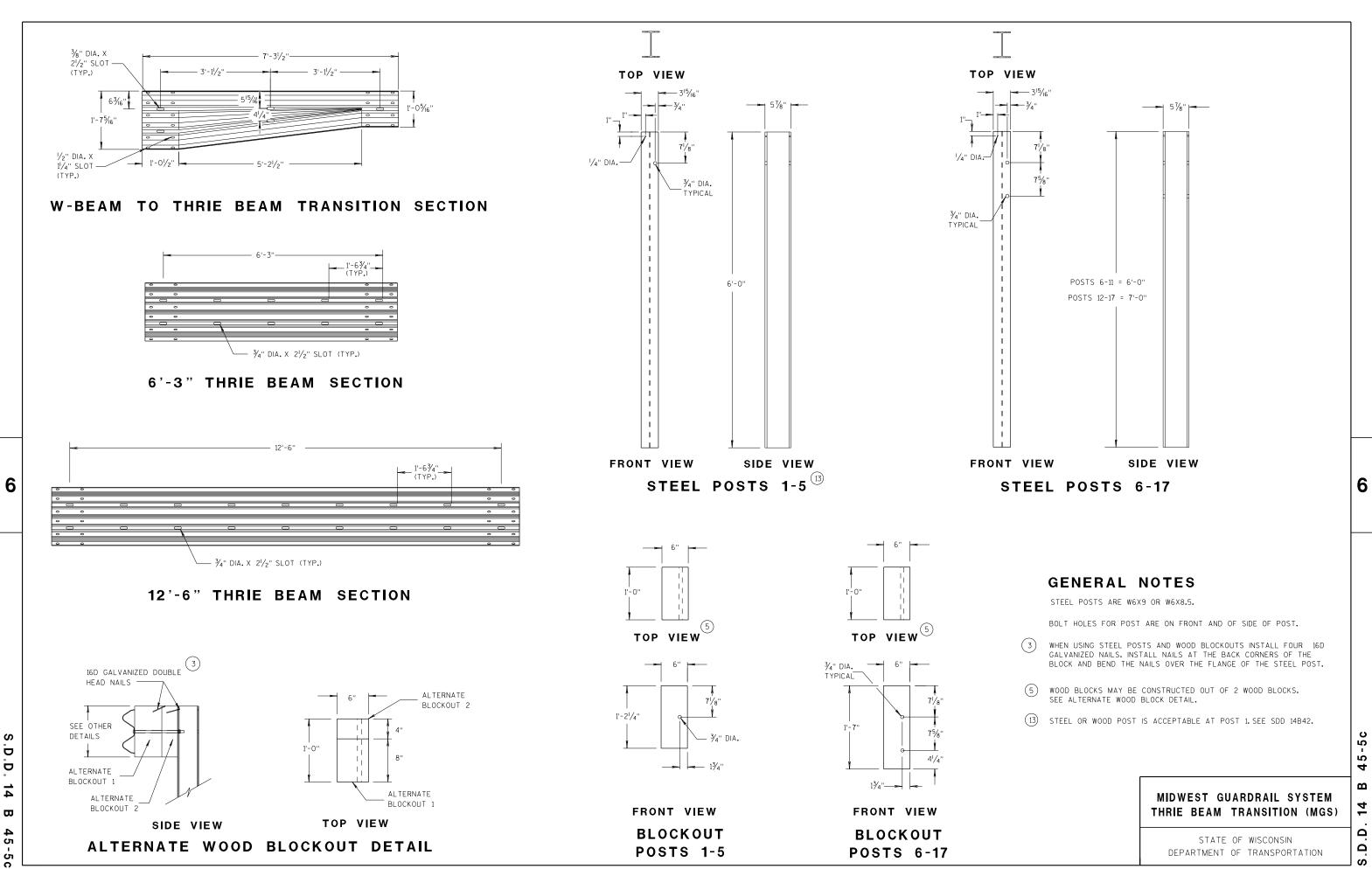
SDD

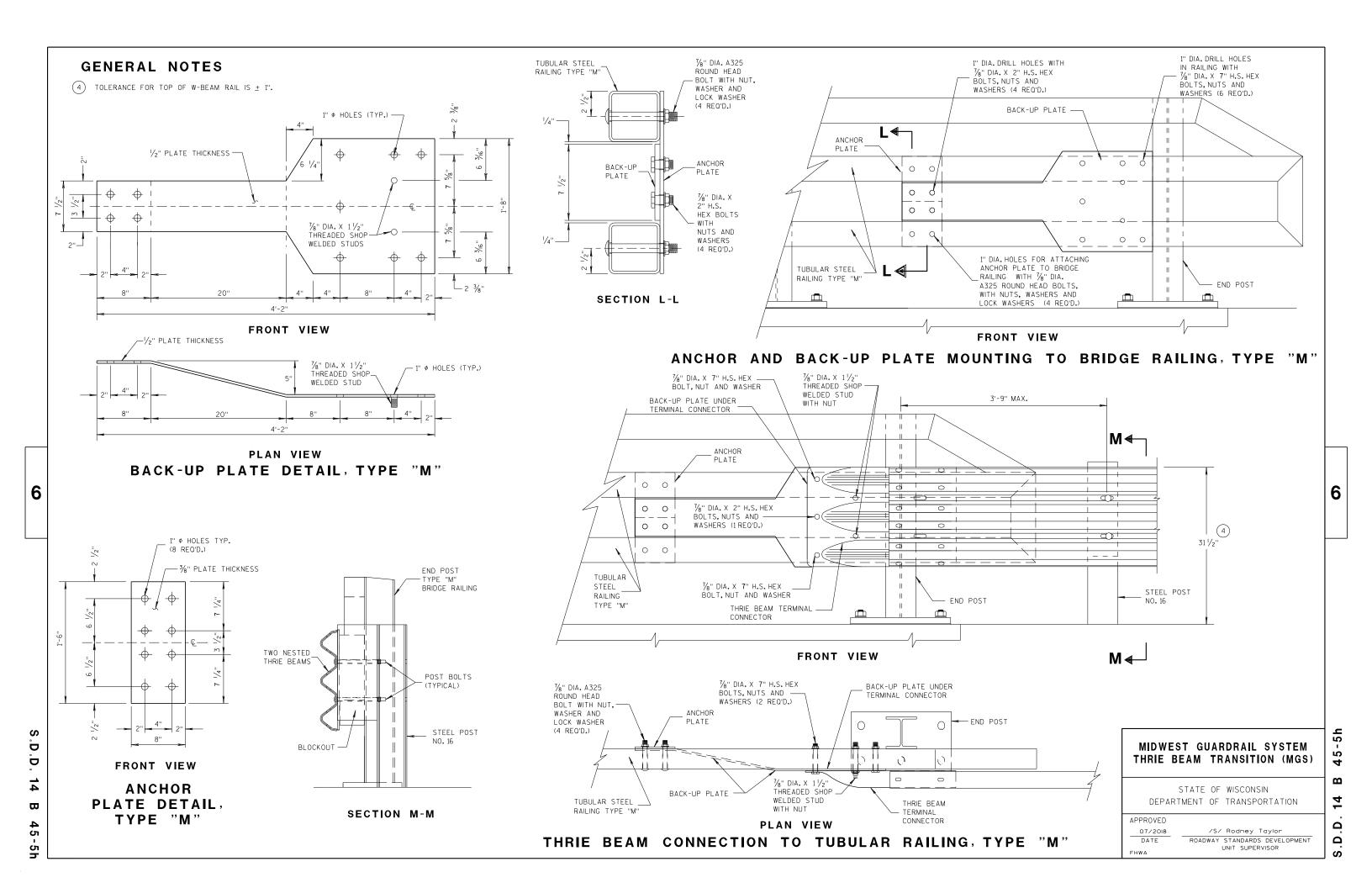
SDD 14B44 - 04















DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL **APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2. R11 - 3. M4 - 9. R11 - 4. AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS) D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

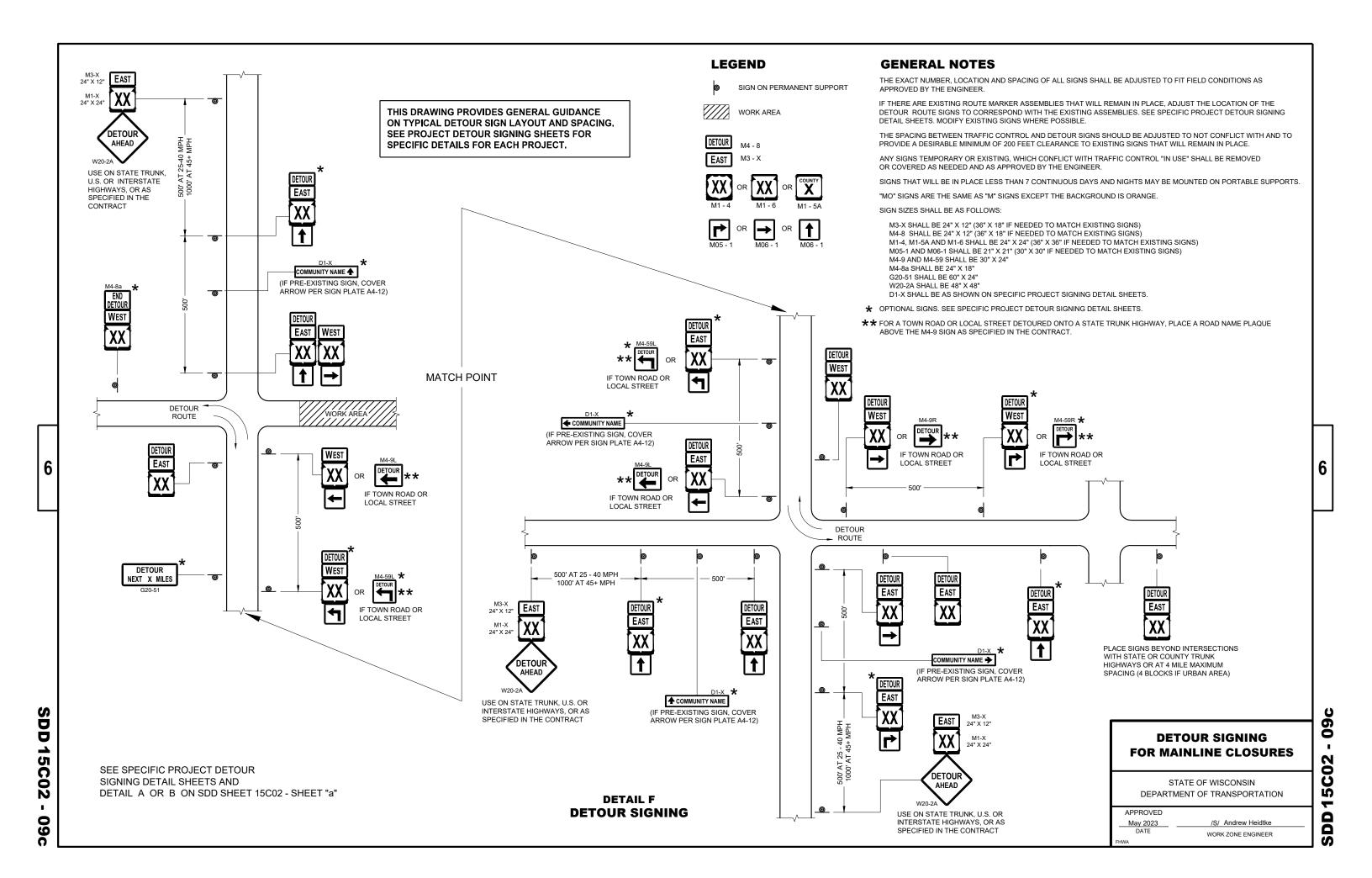
- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

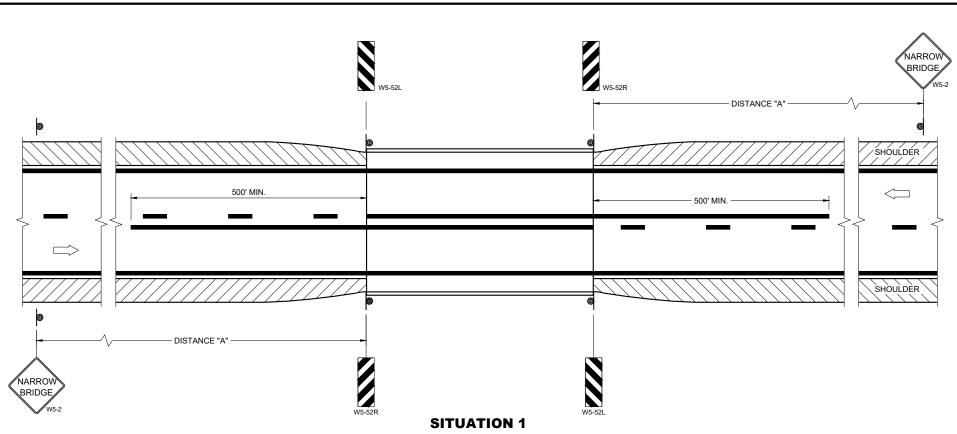
APPROVED May 2023 DATE WORK ZONE ENGINEER

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SDD 15C06-12



WARRANTING CRITERIA: BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

OR SHOULDER SHOULDER WS-52R WS-52L

SITUATION 2

WARRANTING CRITERIA: 1. BRIDGE WIDTH IS AT LEAST 24 FEET <u>AND</u> 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

SDD

15C06-12

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

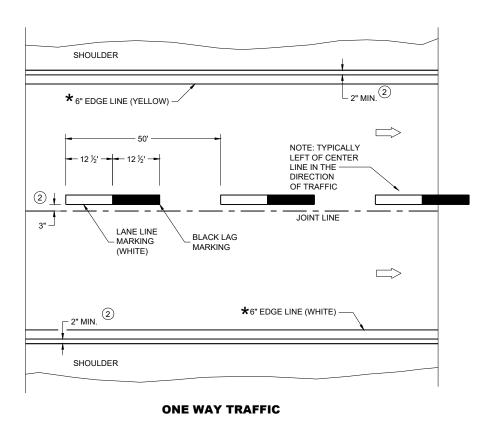
DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2023	/S/ Jeannie Silver
DATE	Statewide Pavement Marking Engineer
FHWA	



PERMANENT PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- 1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- (2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

C08-23

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

APPROVED May 2023

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

DATE Statewide Pavement Marking Engineer

6

SDD 1

) 15C08-23a

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER Ŋ

SDD

SDD 15C11

2" MAX.

4" MAX.

- WHITE 360° REBOUNDABLE
REFLECTIVE SHEETING

- FLEXIBLE ORANGE POST

FLUORESCENT ORANGE

The state of the state o

FLEXIBLE TUBULAR

FLEXIBLE TUBULAR

MARKER POST

WORK ZONE

SDD 15C11

GENERAL NOTES

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

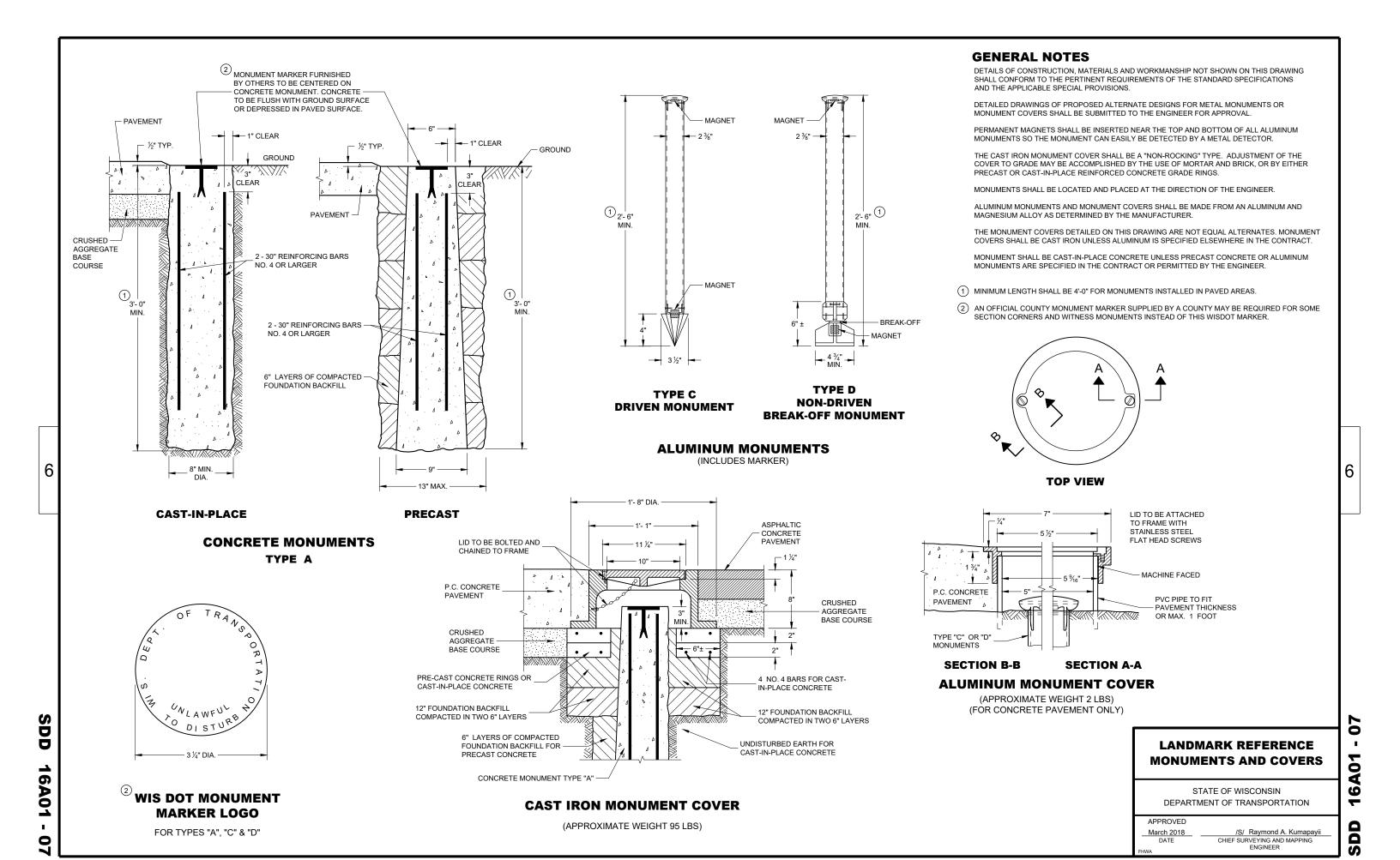
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

APPROVED	
November 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER







RURAL AREA (See Note 2)



GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (\pm) 3".

- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) 3" or 6'-3" (\pm) 3" depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ($\frac{+}{-}$) 3''.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. Folding signs shall be mounted at a height of 5'-3'' (\pm) 3'' or as directd by the Engineer.

2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq.Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. _A4-3.23

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42





2'Min - 4'Max (See Note 6)



	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRE)	
	L	E
***	Greater than 48" Less than 60"	12''
	60" to 108"	L/5

HWY:

SIGN SHAPE OTHER THAN	DIAMOND
(THREE POSTS REQUIR	RED)
L	Е
Greater than 108" to 144"	12''

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) 3'' or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\times \times \times$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

	ı
Area of Sign	
Installation	D
(Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

PLATE NO. <u>A4-4.16</u>

Ε

CUEET NO.

SHEET NO:

FILE NAME : C:\CAEfiles\Project\tr_stdplate\A44.dgn

PROJECT NO:

COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 1/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN

PROJECT NO:



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

CHANNEL

GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

PROJECT NO:

VIEW FROM TOP

GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X $1/_{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $\frac{2}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Manher R

APPROVED

DATE 4/19/2022 PLATE NO. A5-10.3

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

SIGN

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series B
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

$\begin{array}{c c} & & & \\ \downarrow & & \downarrow \\ \hline & & & \\ \hline & & & \\ \end{array}$	G	
		3
M4-8	>	<u>'</u>

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	┙	М	N	0	Р	Q	R	S	Т	U	٧	W	Χ	Υ	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

COUNTY:

STANDARD SIGN M4 - 8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

DATE 2/9/2023 PLATE NO. M4-8.4

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M48.dgn

HWY:

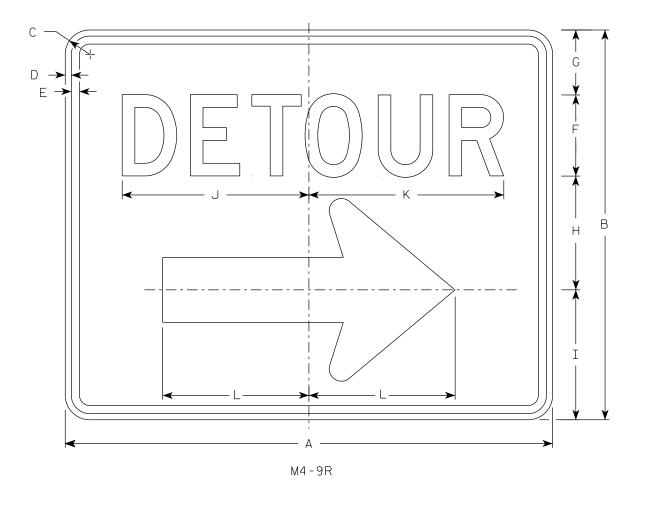
PROJECT NO:

PLOT DATE: 9-FEB 2023 7:38

PLOT BY : dotc4c

PLOT NAME :

SHEET NO: PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

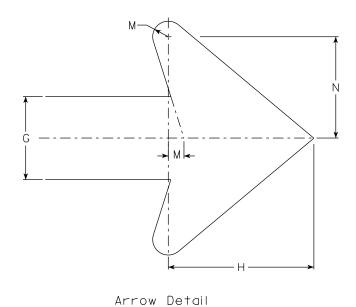


NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message – Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M4-9L is the same as M4-9R except the arrow is reversed.



SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
4	48	36	1 1/8	1/2	5/8	8	6	10 1/2 1	11	20 5/8	20 1/2	13 1/4	1 1/8	6 1/8													12.0
5	48	36	1 1/8	1/2	5/8	8	6	10 1/2 1	11 %	20 %	20 1/2	13 1/4	1 1/8	6 1/8													12.0

COUNTY:

STANDARD SIGN M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R

ForState Traffic Engineer DATE 2/9/2023 PLATE NO. M4-9R.6

Ε

HWY:

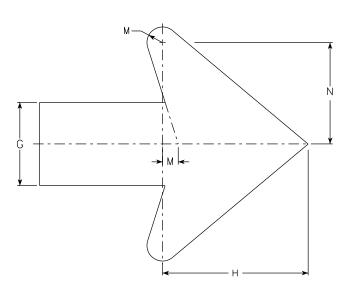
PROJECT NO:

PLOT NAME :

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown when base material is metal.
- 5. M4-59L is the same as M4-59R except the arrow is reversed.



Arrow Detail

*	
	\

M4-59R

HWY:

SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
25	30	30	1 1/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 1/8	2 1/8												6.25
2M	30	30	1 1/8	3/8	1/2	5	3 1/2	2 3/4	16 %	11 1/2	12	10 1/2	3/4	4 1/8	2 1/8												6.25
3	30	30	1 1/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 1/8	2 1/8												6.25
4	48	48	2 1/4	1/2	5/8	8				20 %		1	1 1/8	6 1/8	3 3/8												16.0
5	48	48	2 1/4	1/2	5/8	8	5 %	4 3/8	26 ½	20 %	20 1/2	17	1 1/8	6 1/8	3 3/8												16.0

COUNTY:

STANDARD SIGN M4-59 L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED /

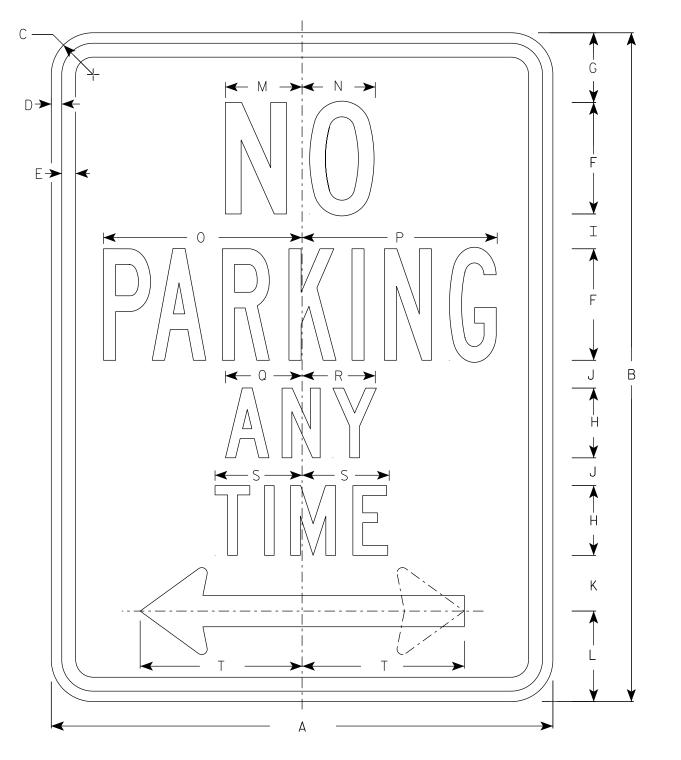
For State Traffic Engineer

DATE 2/13/2023 PLATE NO. M4-59.2

SHEET NO:

Ε

PROJECT NO:



NOTES

- 1. Sign is Type II Type H Reflective
- 2. Color:

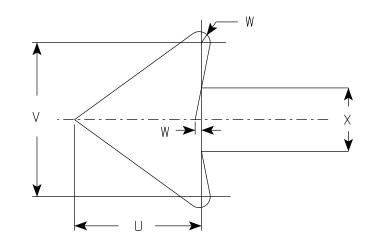
Background - White Message - Red

- 3. Message Series See Note 4
- 4. Lines 1, 3 and 4 are series C, line 2 is series B.
- 5. R7-1D (double arrow)

R7-1L (left arrow)

R7-1R (right arrow)

ARROW DETAIL



R7-1

SIZE	А	В	С	D	E	Ŀ	G	Н	I	٦	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/2	3/8	3/8	3	1 1/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 1/8	4 1/8	2 1/4	2 1/8	2 1/2	3 1/8	1 1/2	1 3/4	1/8	3/4			1.5
25	18	24	1 1/2	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 %	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/2	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/2	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

COUNTY:

STANDARD SIGN R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

MMU/MU/MUState Traffic Engineer

SHEET NO:

DATE 10/26/23

PLATE NO. <u>R7-1.11</u>

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.dgn

HWY:

PROJECT NO:

PLOT DATE: 26-OCT 2023 2:48

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

NOTES

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message – Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

C —		<u> </u>
		G
E →		F
		F J G
		//
←	A	-
	R11-2B	

SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0
2M	48	30	1 1/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 7/8																10.0
3	48	30	1 1/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 1/8																10.0
4	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0
5	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0

STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 2/5/24 PLATE NO. R11-2B.3

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:20

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R112B.dgn



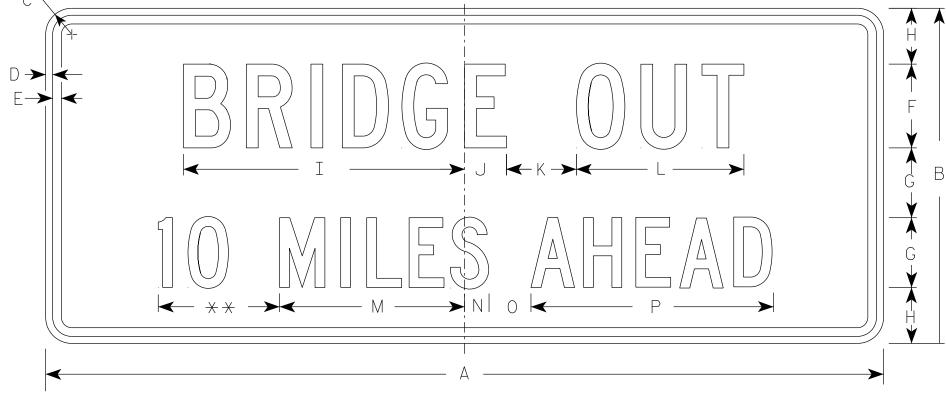
- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White

Message - Black

3. Message Series - C

- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3C

** See Note 5

SIZE	۸	В		D	F	F	G	Н	т	.1	K		М	N	0	Р	0	R	ς	т	- 11	v	w	Χ	Y	7	Area
3122						'	-	11	1		- 10		141	IN .		' 7,		11		!	0	· ·	11		'		sq. ft.
$\parallel 1 \parallel$	36	15	1 1/2	1/2	1 %	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4		7 1/8									3.75
25	60	24	1 1/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
2M	60	24	1 1/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
3																											
4																											
5																											

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 f_{or} State Traffic Engineer

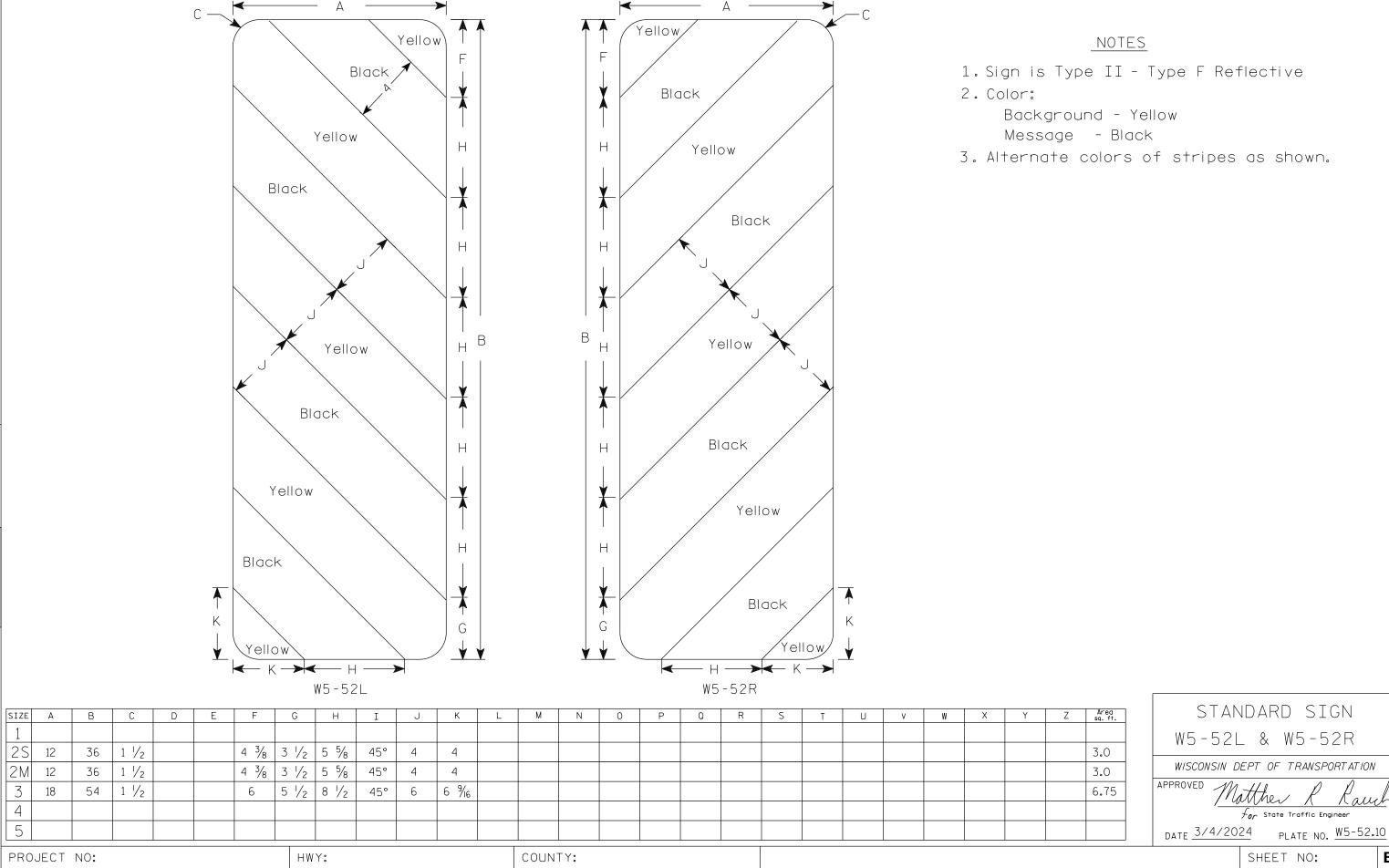
DATE 2/5/24

PLATE NO. R11-3C.4

SHEET NO:

PROJECT NO:

Ε



PLOT DATE : 4-MARCH 2024 11:57 PLOT NAME : PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42 PLOT BY : dotc4c

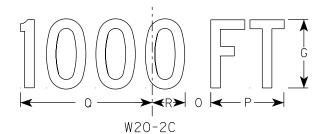


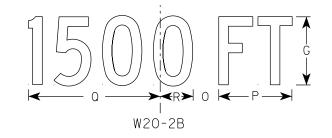
- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

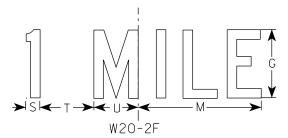
- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Line 1 is Series D.
 Line 2 is Series D for AHEAD and
 Series C for all other distances.

S N O P
W20-2D









SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 1/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
25	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 ½	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 ½	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 ½	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0

COUNTY:

STANDARD SIGN W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R

DATE 1/10/2024 PLATE NO. W20-2.7

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W202.DGN

PROJECT NO:

PLOT DATE: 10-JAN 2024 11:36

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$WISDOT/CADDS SHEET 42

W20-2A

HWY:



- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D.
 Line 3 is Series D for AHEAD and
 Series C for all other distances.

1
W20-3D
$\begin{array}{c c} \hline & & & \\ \hline $
W20-3B
W20-3G

W20-3A

HWY:

SIZE	А	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 1/8	12 1/2	11	9	6	10 1/8	2 1/2	1 1/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4 1 3/4	9.0
25	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 3/8	2 %	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 %	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 3/8	2 %	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-3.8

SHEET NO:

HEET NO:

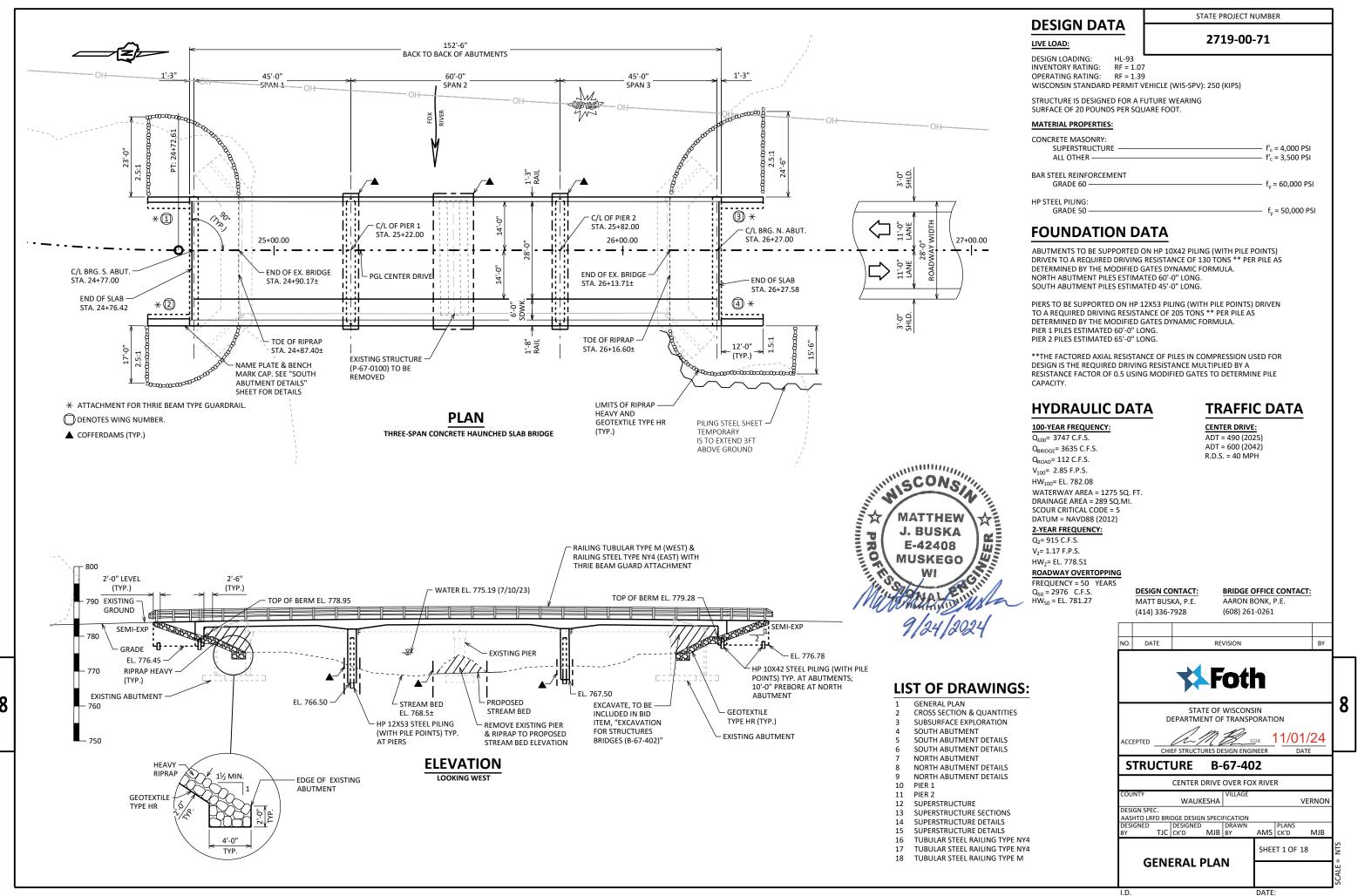
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W203.DGN

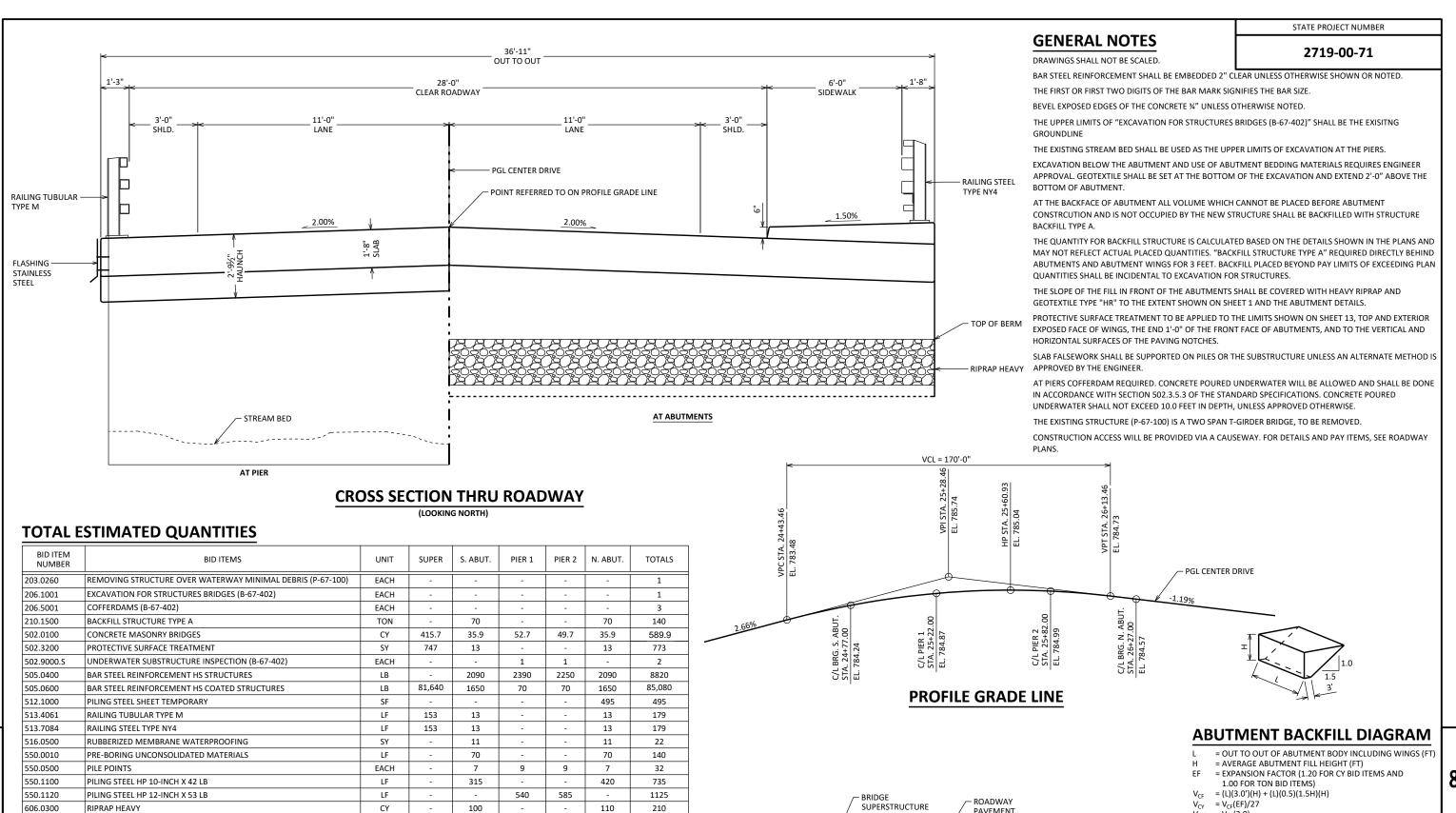
PROJECT NO:

COUNTY: PLOT DATE: 10-JAN 2024 12:02

PLOT BY : dotc4c

PLOT NAME :





▲ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR

100

36

150

LF

SY

SY

LF

SIZE

153

100

36

165

200

72

315

153

1/2", 3/4"

612.0406

645.0111.

645.0120

SPV.0090.01

PIPE UNDERDRAIN WRAPPED 6-INCH

GEOTEXTILE TYPE DF SCHEDULE A

GEOTEXTILE TYPE HR

NON-BID ITEMS

FILLER

FLASHING STAINLESS STEEL

■ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.



– ROADWAY

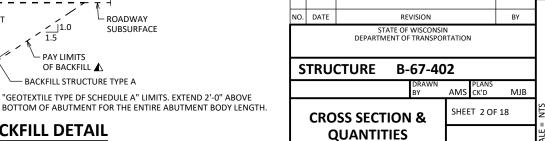
- PAY LIMITS

OF BACKFILL A

BACKFILL STRUCTURE TYPE A

SUBSURFACE

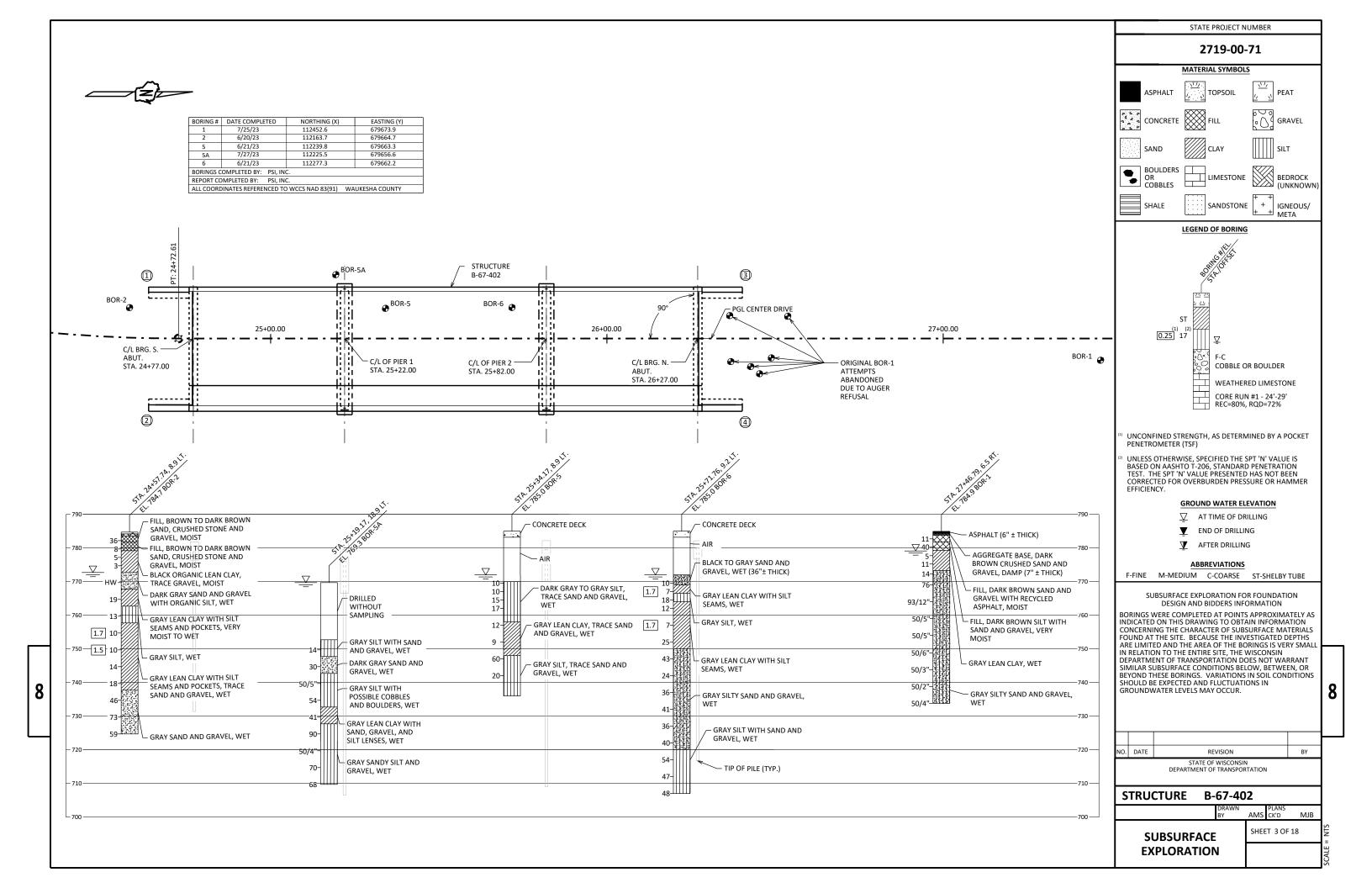
"GEOTEXTILE TYPE DF SCHEDULE A" LIMITS. EXTEND 2'-0" ABOVE

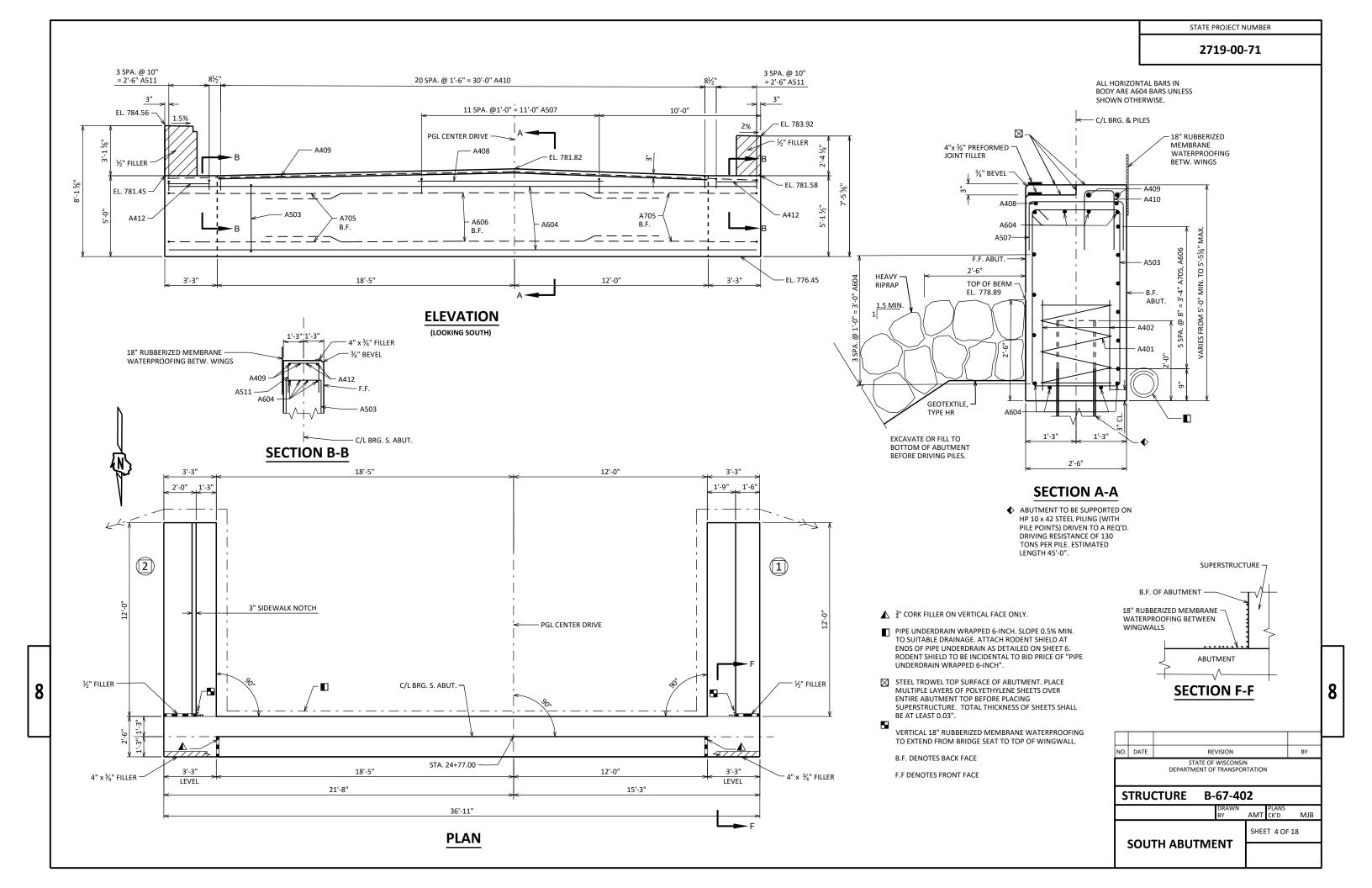


ABUTMENT BACKFILL DETAIL

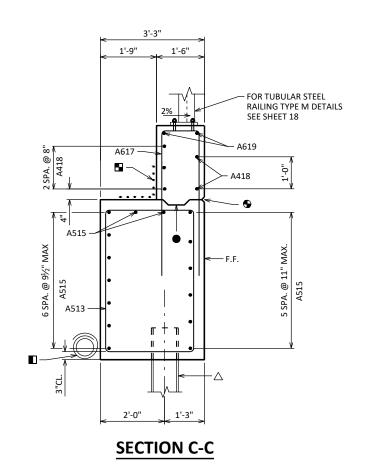
ARIITMENT

BACKFACE









ELEVATION - WING 1

11 SPA. @ 1'-0" = 11'-0" A513

12'-0" 16 SPA. @ 9" MAX. = 11'-6" A617

4'-10"

– A619 E.F

✓ A418 B.F.

A515 E.F. A418 E.F.

A418 F.F.

1'-0"

2'-0"

- RAIL POST SPACING

– EL. 783.67

- A617

4'-10"

FINISHED

GRADE

- A513

- A420

1'-4"

EL. 783.92 —

A617

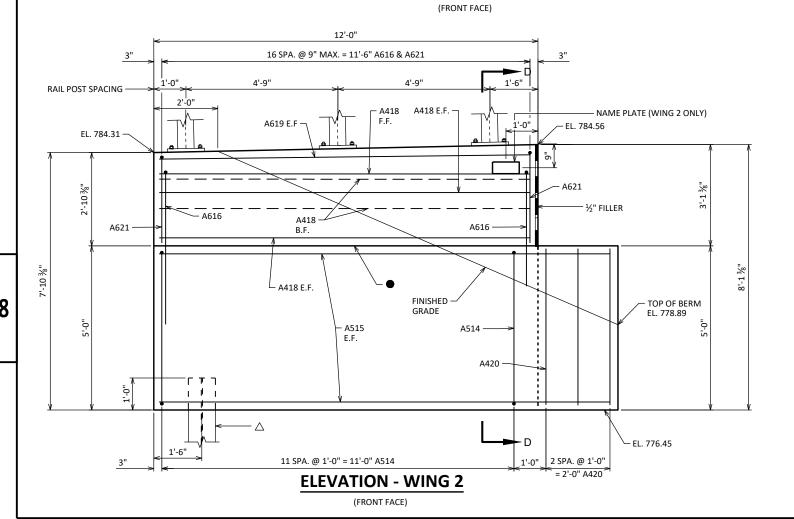
2 SPA. @ 1'-0" 1'-0" = 2'-0" A420

½" FILLER -

TOP OF BERM

EL. 776.45 -

EL. 778.89

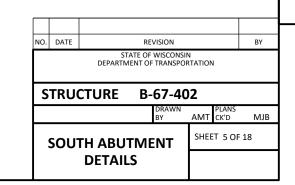




PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 6. RODENT SHIELD TO BE INCIDENTAL TO BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

RESISTANCE OF 130 TONS PER PILE.

- § ¾" "V" GROOVE ON FRONT FACE OF WINGWALL. ONLY REQUIRED IF OPTIONAL CONSTRUCTION JOINT IS USED.
- OPTIONAL CONST. JOINT FORMED BY A BEVELED 2" x 6" KEYWAY WITH MEMBRANE ON BACK FACE.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.
 - B.F. DENOTES BACK FACE.
 - F.F DENOTES FRONT FACE.
 - E.F. DENOTES EACH FACE.



3" x 4" SDWK
PAVING NOTCH

FOR RAILING STEEL
TYPE NY4 DETAILS
SEE SHEETS 16 & 17

A619

A418
A621

A616

F.F.

A616

F.F.

A515

A616

F.F.

A218

A218

A218

A218

A219

A218

A218

A219

A219

A218

A218

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A219

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A219

A219

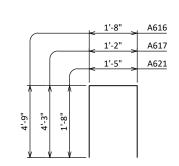
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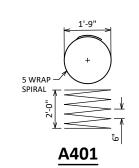
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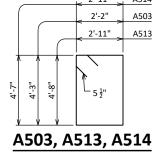
SECTION D-D

BILL OF BARS

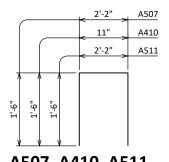
MARK Series Location A401 5 28'-0" X BODY AT PILES A402 10 2'-3" BODY AT PILES A503 45 13'-6" X BODY VERT. A604 11 36'-7" BODY HORIZ. AT WING B.F. A606 6 18'-5" BODY HORIZ. BETW. WINGS B.F. A507 12 4'-11" X BODY HORIZ. TOP A408 3 11'-4" BODY HORIZ. TOP A410 21 3'-9" X BODY HORIZ. TOP A410 21 3'-9" X BODY VERT. TOP A412 4 2'-11" X BODY HORIZ. TOP AT ENDS A511 8 4'-11" X BODY HORIZ. TOP AT ENDS A513 X 12 15'-10" X WING 1 VERT. A514 X 12 15'-8" X WING 2 VERT A515 X 30 14'-2" WING 1 VERT. A516 X<	BAR	COAT	NO.	LENGTH	ENT	BAR	1650 # COATED; 2090 # UNCOATED
A402 10 2'-3" BODY AT PILES A503 45 13'-6" X BODY VERT. A604 11 36'-7" BODY HORIZ. A705 12 13-0 X BODY HORIZ. AT WING B.F. A606 6 18'-5" BODY HORIZ. BETW. WINGS B.F A507 12 4'-11" X BODY HORIZ. TOP A408 3 11'-4" BODY HORIZ. TOP A409 2 36'-7" BODY HORIZ. TOP A410 21 3'-9" X BODY VERT. TOP A511 8 4'-11" X BODY VERT. TOP A511 8 4'-11" X BODY VERT. TOP AT ENDS A412 4 2'-11" BODY HORIZ. TOP AT ENDS A513 X 12 15'-8" X WING 1 VERT. A514 X 12 15'-8" X WING 2 VERT A515 X 30 14'-2" WINGS 1 & 2 HORIZ. B.F., F.F. & TOP A616 X 17 10'-10" X WING 1 VERT. A617 X 17 9'-4" X WING 1 VERT. A619 X 4 11'-8" WINGS 1 & 2 HORIZ. E.F. A619 X 4 11'-8" WINGS 1 & 2 HORIZ. E.F. A619 X 4 11'-8" WINGS 1 & 2 HORIZ. E.F. BODY VERT. END AT WINGS 1 & 2	MARK	8	REQ'D.	LLINGIII	BE	SERIES	LOCATION
A503	A401		5	28'-0"	Х		BODY AT PILES
A604 11 36'-7" BODY HORIZ. A705 12 13-0 X BODY HORIZ. AT WING B.F. A606 6 18'-5" BODY HORIZ. BETW. WINGS B.F A507 12 4'-11" X BODY HORIZ. TOP A408 3 11'-4" BODY HORIZ. TOP A409 2 36'-7" BODY HORIZ. TOP A410 21 3'-9" X BODY VERT. TOP A511 8 4'-11" X BODY VERT. TOP A511 8 4'-11" X BODY VERT. TOP AT ENDS A412 4 2'-11" BODY HORIZ. TOP AT ENDS A513 X 12 15'-10" X WING 1 VERT. A514 X 12 15'-8" X WING 2 VERT A515 X 30 14'-2" WINGS 1 & 2 HORIZ. B.F., F.F. & TOP A616 X 17 10'-10" X WING 2 VERT. A617 X 17 9'-4" X WING 1 VERT. A418 X 14 11'-8" WINGS 1 & 2 HORIZ. E.F. A619 X 4 11'-8" WINGS 1 & 2 HORIZ. E.F. A620 6 4'-7" BODY VERT. END AT WINGS 1 & 2	A402		10	2'-3"			BODY AT PILES
A705	A503		45	13'-6"	Χ		BODY VERT.
A606 6 18'-5" BODY HORIZ. BETW. WINGS B.F A507 12 4'-11" X BODY VERT. TOP A408 3 11'-4" BODY HORIZ. TOP A409 2 36'-7" BODY HORIZ. TOP A410 21 3'-9" X BODY VERT. TOP A511 8 4'-11" X BODY VERT. TOP AT ENDS A412 4 2'-11" BODY HORIZ. TOP AT ENDS A513 X 12 15'-10" X WING 1 VERT. A514 X 12 15'-8" X WING 2 VERT A515 X 30 14'-2" WINGS 1 & 2 HORIZ. B.F., F.F. & TOP A616 X 17 10'-10" X WING 1 VERT. A617 X 17 9'-4" X WING 1 VERT. A418 X 14 11'-8" WINGS 1 & 2 HORIZ. E.F. A619 X 4 11'-8" WINGS 1 & 2 HORIZ. E.F. A420 6 4'-7" BODY VERT. END AT WINGS 1 & 2	A604		11	36'-7"			BODY HORIZ.
A507	A705		12	13-0	Х		BODY HORIZ. AT WING B.F.
A408 3 11'-4" BODY HORIZ. TOP A409 2 36'-7" BODY HORIZ. TOP A410 21 3'-9" X BODY VERT. TOP A511 8 4'-11" X BODY VERT. TOP AT ENDS A412 4 2'-11" BODY HORIZ. TOP AT ENDS A513 X 12 15'-10" X WING 1 VERT. A514 X 12 15'-8" X WING 2 VERT A515 X 30 14'-2" WINGS 1 & 2 HORIZ. B.F., F.F. & TOP A616 X 17 10'-10" X WING 2 VERT. A617 X 17 9'-4" X WING 1 VERT. A418 X 14 11'-8" WINGS 1 & 2 HORIZ. E.F. A420 6 4'-7" BODY VERT. END AT WINGS 1 & 2	A606		6	18'-5"			BODY HORIZ. BETW. WINGS B.F
A409 2 36'-7" BODY HORIZ. TOP A410 21 3'-9" X BODY VERT. TOP A511 8 4'-11" X BODY VERT. TOP AT ENDS A412 4 2'-11" BODY HORIZ. TOP AT ENDS A513 X 12 15'-10" X WING 1 VERT. A514 X 12 15'-8" X WING 2 VERT A515 X 30 14'-2" WINGS 1 & 2 HORIZ. B.F., F.F. & TOP A616 X 17 10'-10" X WING 2 VERT. A617 X 17 9'-4" X WING 1 VERT. A418 X 14 11'-8" WINGS 1 & 2 HORIZ. E.F. A619 X 4 11'-8" WINGS 1 & 2 HORIZ. E.F. A420 6 4'-7" BODY VERT. END AT WINGS 1 & 2	A507		12	4'-11"	Χ		BODY VERT. TOP
A410 21 3'-9" X BODY VERT. TOP A511 8 4'-11" X BODY VERT. TOP AT ENDS A412 4 2'-11" BODY HORIZ. TOP AT ENDS A513 X 12 15'-10" X WING 1 VERT. A514 X 12 15'-8" X WING 2 VERT A515 X 30 14'-2" WINGS 1 & 2 HORIZ. B.F., F.F. & TOP A616 X 17 10'-10" X WING 2 VERT. A617 X 17 9'-4" X WING 1 VERT. A418 X 14 11'-8" WINGS 1 & 2 HORIZ. E.F. A619 X 4 11'-8" WINGS 1 & 2 HORIZ. E.F. A420 6 4'-7" BODY VERT. END AT WINGS 1 & 2	A408		3	11'-4"			BODY HORIZ. TOP
A511 8 4'-11" X BODY VERT. TOP AT ENDS A412 4 2'-11" BODY HORIZ. TOP AT ENDS A513 X 12 15'-10" X WING 1 VERT. A514 X 12 15'-8" X WING 2 VERT A515 X 30 14'-2" WINGS 1 & 2 HORIZ. B.F., F.F. & TOP A616 X 17 10'-10" X WING 2 VERT. A617 X 17 9'-4" X WING 1 VERT. A418 X 14 11'-8" WINGS 1 & 2 HORIZ. E.F. A619 X 4 11'-8" WINGS 1 & 2 HORIZ. E.F. A420 6 4'-7" BODY VERT. END AT WINGS 1 & 2	A409		2	36'-7"			BODY HORIZ. TOP
A412	A410		21	3'-9"	Χ		BODY VERT. TOP
A513 X 12 15'-10" X WING 1 VERT. A514 X 12 15'-8" X WING 2 VERT A515 X 30 14'-2" WINGS 1 & 2 HORIZ. B.F., F.F. & TOP A616 X 17 10'-10" X WING 2 VERT. A617 X 17 9'-4" X WING 1 VERT. A418 X 14 11'-8" WINGS 1 & 2 HORIZ. E.F. A619 X 4 11'-8" WINGS 1 & 2 HORIZ. E.F. A420 6 4'-7" BODY VERT. END AT WINGS 1 & 2	A511		8	4'-11"	Х		BODY VERT. TOP AT ENDS
A514 X 12 15'-8" X WING 2 VERT A515 X 30 14'-2" WINGS 1 & 2 HORIZ. B.F., F.F. & TOP A616 X 17 10'-10" X WING 2 VERT. A617 X 17 9'-4" X WING 1 VERT. A418 X 14 11'-8" WINGS 1 & 2 HORIZ. E.F. A619 X 4 11'-8" WINGS 1 & 2 HORIZ. E.F. A420 6 4'-7" BODY VERT. END AT WINGS 1 & 2	A412		4	2'-11"			BODY HORIZ. TOP AT ENDS
A515 X 30 14'-2" WINGS 1 & 2 HORIZ. B.F., F.F. & TOP A616 X 17 10'-10" X WING 2 VERT. A617 X 17 9'-4" X WING 1 VERT. A418 X 14 11'-8" WINGS 1 & 2 HORIZ. E.F. A619 X 4 11'-8" WINGS 1 & 2 HORIZ. E.F. A420 6 4'-7" BODY VERT. END AT WINGS 1 & 2	A513	Х	12	15'-10"	Χ		WING 1 VERT.
A616 X 17 10'-10" X WING 2 VERT. A617 X 17 9'-4" X WING 1 VERT. A418 X 14 11'-8" WINGS 1 & 2 HORIZ. E.F. A619 X 4 11'-8" WINGS 1 & 2 HORIZ. E.F. A420 6 4'-7" BODY VERT. END AT WINGS 1 & 2	A514	Х	12	15'-8"	Х		WING 2 VERT
A617 X 17 9'-4" X WING 1 VERT. A418 X 14 11'-8" WINGS 1 & 2 HORIZ. E.F. A619 X 4 11'-8" WINGS 1 & 2 HORIZ. E.F. A420 6 4'-7" BODY VERT. END AT WINGS 1 & 2	A515	Х	30	14'-2"			WINGS 1 & 2 HORIZ. B.F., F.F. & TOP
A418 X 14 11'-8" WINGS 1 & 2 HORIZ. E.F. A619 X 4 11'-8" WINGS 1 & 2 HORIZ. E.F. A420 6 4'-7" BODY VERT. END AT WINGS 1 & 2	A616	Х	17	10'-10"	Х		WING 2 VERT.
A619 X 4 11'-8" WINGS 1 & 2 HORIZ. E.F. A420 6 4'-7" BODY VERT. END AT WINGS 1 & 2	A617	Х	17	9'-4"	Х		WING 1 VERT.
A420 6 4'-7" BODY VERT. END AT WINGS 1 & 2	A418	Х	14	11'-8"			WINGS 1 & 2 HORIZ. E.F.
7.55	A619	Х	4	11'-8"			WINGS 1 & 2 HORIZ. E.F.
A621 X 17 4'-5" X WING 2 VERT.	A420		6	4'-7"			BODY VERT. END AT WINGS 1 & 2
	A621	Х	17	4'-5"	Х		WING 2 VERT.

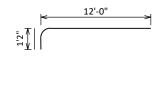






A616, A617, A621



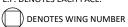


A705

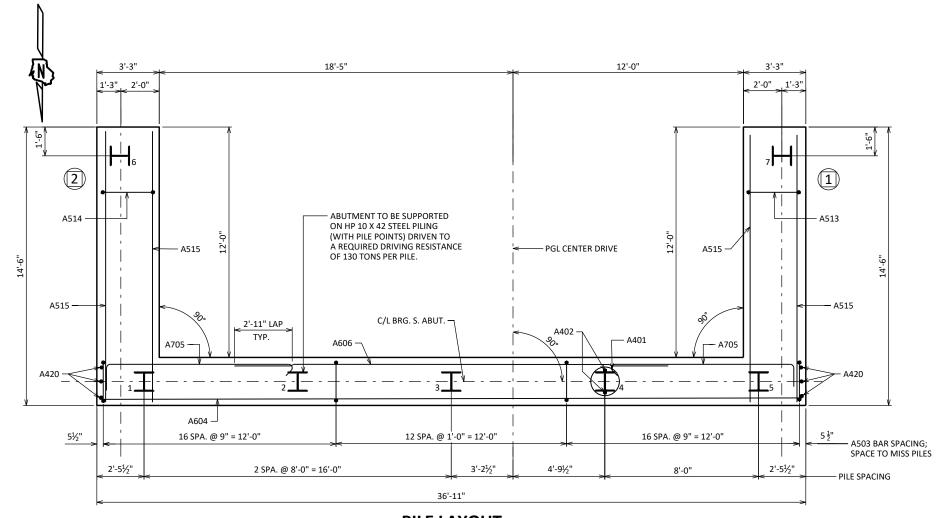
A507, A410, A511

8

B.F. DENOTES BACK FACE. F.F DENOTES FRONT FACE. E.F. DENOTES EACH FACE.



NO.	DATE		REVISION			BY
			TE OF WISCONSII ENT OF TRANSPOI		N	
S	TRU	CTURE	B-67-40)2		
			DRAWN BY	AMT	PLANS CK'D	MJB
	sou ⁻	TH ABUT	MENT	SHEE	T 6 OF	18
		DETAILS	S			



PILE LAYOUT

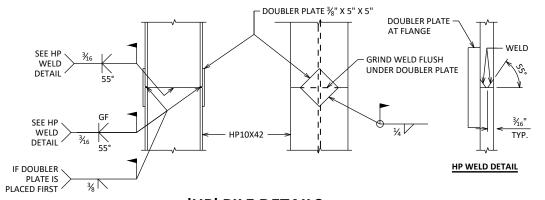
NOMINAL ΙΛΛΛΛΛΛΙ SECTION MAX.

RODENT SHIELD DETAIL

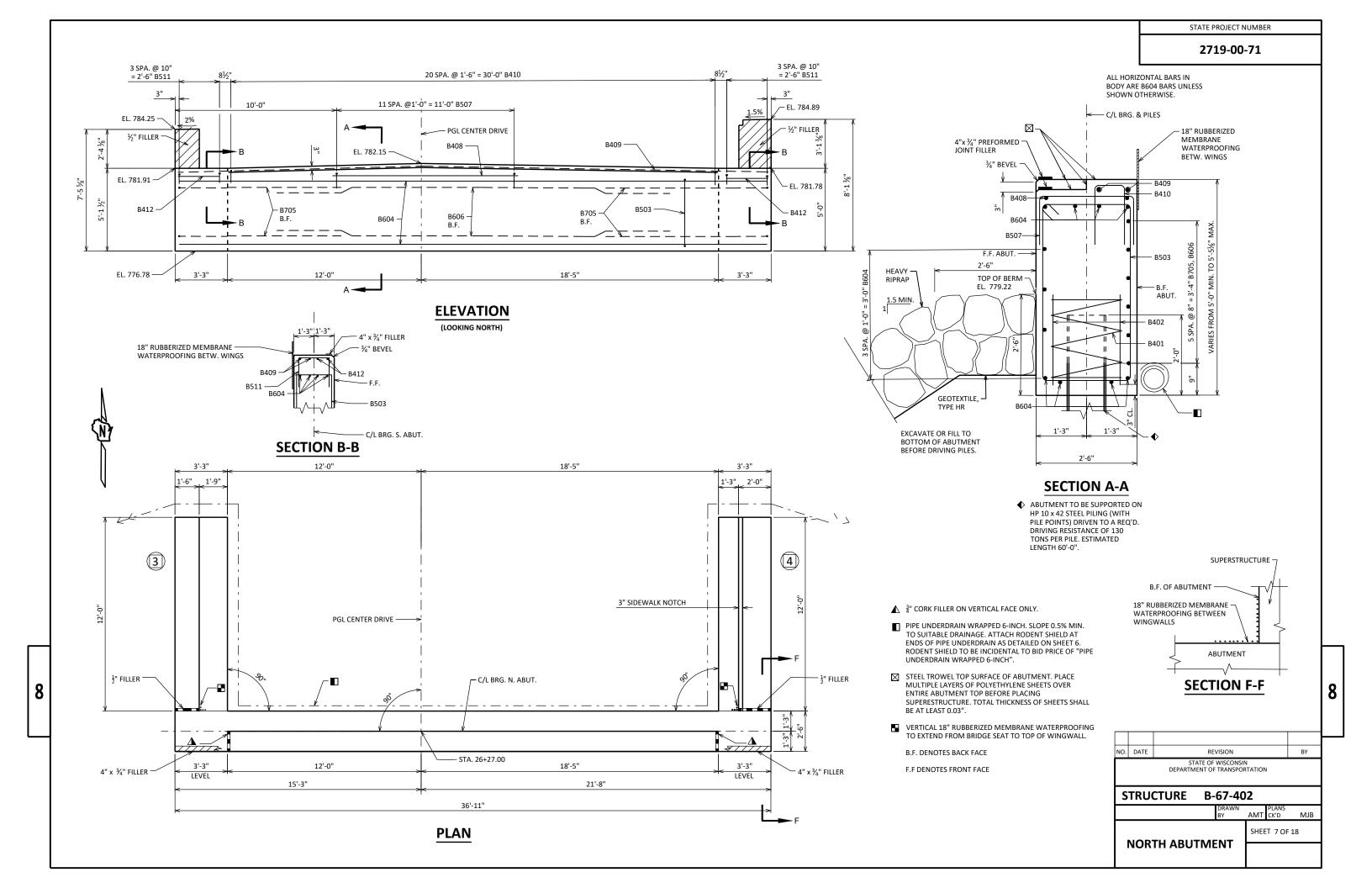
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

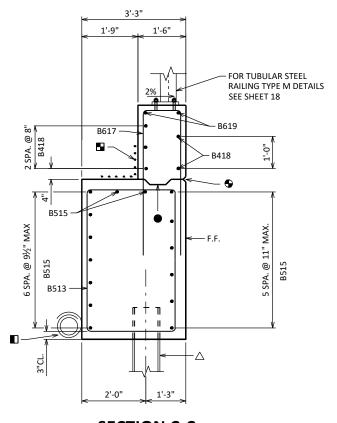
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



'HP' PILE DETAILS







ELEVATION - WING 3

12'-0" 16 SPA. @ 9" MAX. = 11'-6" B617

4'-10"

FINISHED -

B513 -

B420 -

1'-4"

← EL. 784.25

1'-0" 2 SPA. @ 1'-0" =2'-0" B420

½" FILLER

TOP OF BERM EL. 779.22

L. 776.78

4'-10"

B619 E.F

B418 B.F. →

- B515

11 SPA. @ 1'-0" = 11'-0"B513

L B418 E.F.

- B418 F.F.

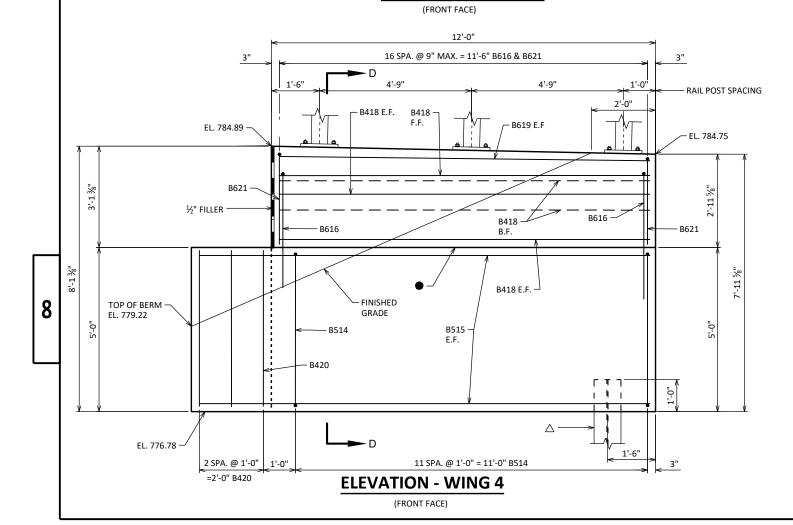
1'-0"

2'-0"

RAIL POST SPACING

EL. 784.11 -

B617 -



SECTION C-C

2'-0"

FOR RAILING STEEL

TYPE NY4 DETAILS

SEE SHEETS 16 & 17

3" x 4" SDWK

PAVING NOTCH

B616

2'-0"

SECTION D-D

B-

B515 -

B514

6 SPA.

- SUPPORT ABUTMENT ON HP 10X42 STEEL PILING, ESTIMATED 45'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 130 TONS PER PILE. PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 6.
 - 34" "V" GROOVE ON FRONT FACE OF WINGWALL. ONLY REQUIRED IF OPTIONAL CONSTRUCTION JOINT IS USED.

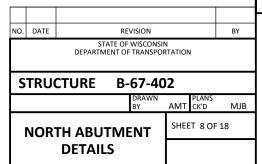
RODENT SHIELD TO BE INCIDENTAL TO BID PRICE OF "PIPE

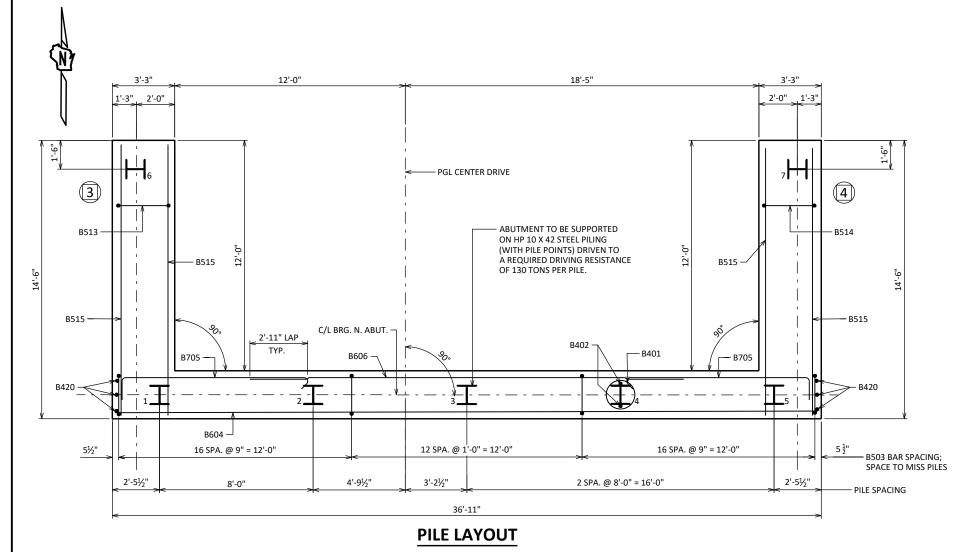
- OPTIONAL CONST. JOINT FORMED BY A BEVELED 2" x 6" KEYWAY WITH MEMBRANE ON BACK FACE.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.

B.F. DENOTES BACK FACE.

F.F DENOTES FRONT FACE.

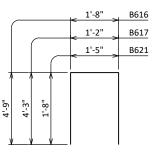
E.F. DENOTES EACH FACE.

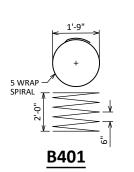


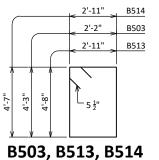


BILL OF BARS

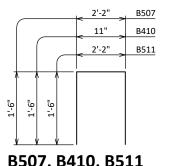
BAR	ΑT	NO.	LENGTH	BENT	BAR	1650 # COATED; 2090 # UNCOATED
MARK	8	REQ'D.	LENGTH	BE	SERIES	LOCATION
B401		5	28'-0"	Х		BODY AT PILES
B402		10	2'-3"			BODY AT PILES
B503		45	13'-6"	Х		BODY VERT.
B604		11	36'-7"			BODY HORIZ.
B705		12	13'-0"	Х		BODY HORIZ. AT WING B.F.
B606		6	18'-5"			BODY HORIZ. BETW. WINGS B.F
B507		12	4'-11"	Х		BODY VERT. TOP
B408		3	11'-4"			BODY HORIZ. TOP
B409		2	36'-7"			BODY HORIZ. TOP
B410		21	3'-9"	Χ		BODY VERT. TOP
B511		8	4'-11"	Χ		BODY VERT. TOP AT ENDS
B412		4	2'-11"			BODY HORIZ. TOP AT ENDS
B513	Х	12	15'-10"	Χ		WING 3 VERT.
B514	Х	12	15'-8"	Х		WING 4 VERT.
B515	Х	30	14'-2"			WINGS 3 & 4 HORIZ. B.F., F.F. & TOP
B616	Х	17	10'-10"	Χ		WING 4 VERT.
B617	Х	17	9'-4"	Χ		WING 3 VERT.
B418	Х	14	11'-8"			WINGS 3 & 4 HORIZ. E.F.
B619	Х	4	11'-8"			WINGS 3 & 4 HORIZ. E.F.
B420		6	4'-7"			BODY VERT. END AT WINGS 3 & 4
B621	Х	17	4'-5"	Χ		WING 4 VERT.

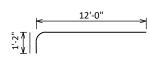






B616, B617, B621





B705

8

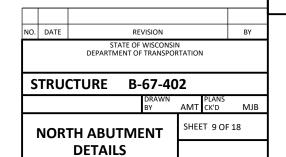
B507, B410, B511

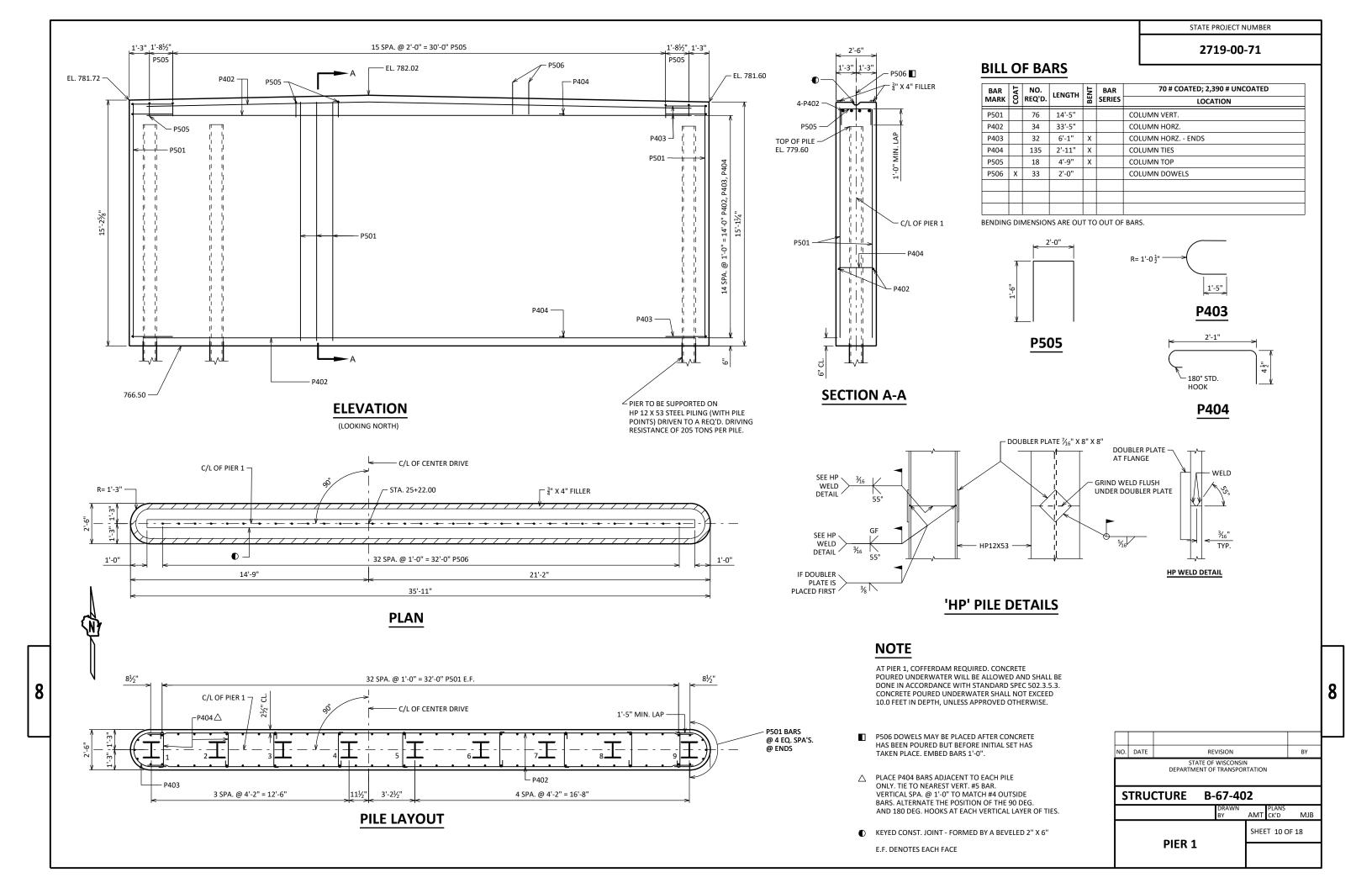
NOTE

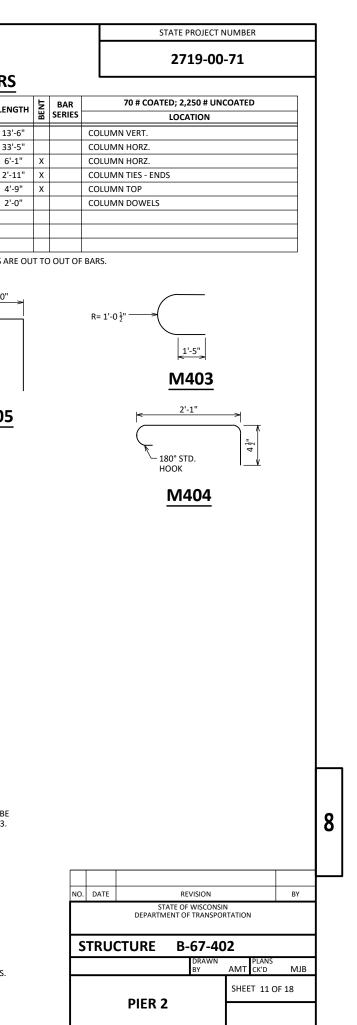
FOR PILE SPLICE AND RODENT SHIELD DETAILS SEE SHEET 6.

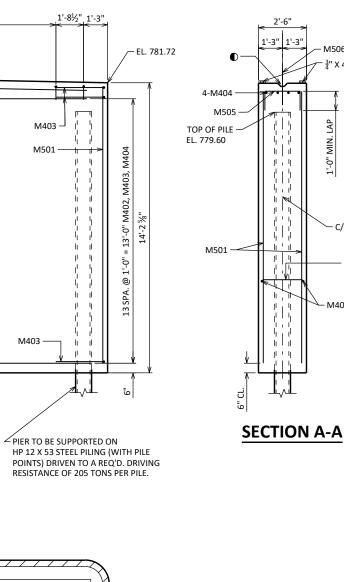
- B.F. DENOTES BACK FACE.
- F.F DENOTES FRONT FACE.
- E.F. DENOTES EACH FACE.











BILL OF BARS

- M506 ■

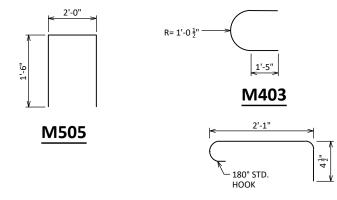
√ ¾" X 4" FILLER

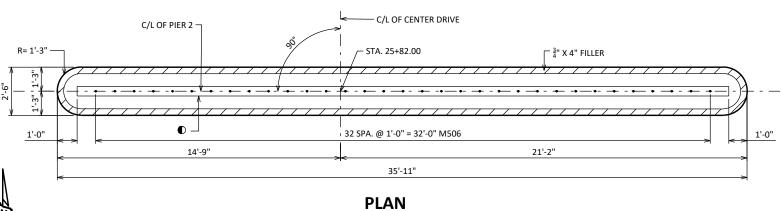
C/L OF PIER 2

- M402

BAR	ΑT	NO.	LENGTH	Ę	BAR	70 # COATED; 2,250 # UNCOATED
MARK	8	REQ'D.	LLITOIII	ᆱ	SERIES	LOCATION
M501		76	13'-6"			COLUMN VERT.
M402		32	33'-5"			COLUMN HORZ.
M403		30	6'-1"	Х		COLUMN HORZ.
M404		126	2'-11"	Х		COLUMN TIES - ENDS
M505		18	4'-9"	Х		COLUMN TOP
M506	Х	33	2'-0"			COLUMN DOWELS

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.





15 SPA. @ 2'-0" = 30'-0" M506

– EL. 782.14

- M501

ELEVATION

(LOOKING NORTH)

- M402

1'-3" 1'-8½"

767.50 -

- M505

M402 —

M505

EL. 781.84 -

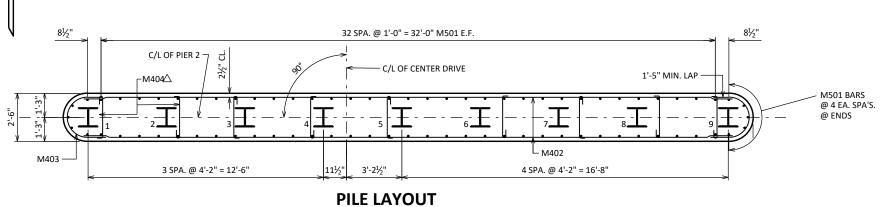
- M404

M404 -

M403

M501

M403 -



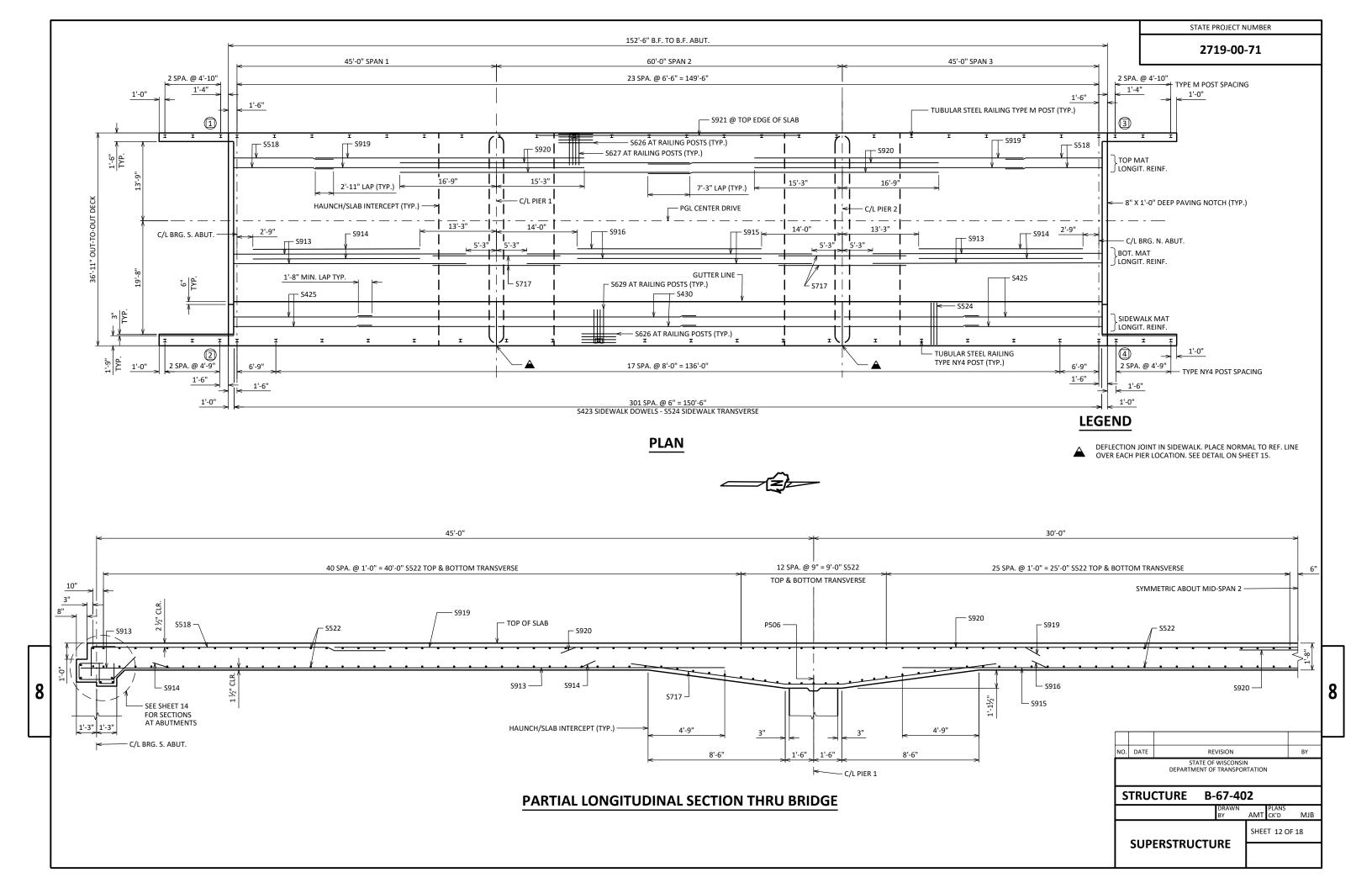
NOTES

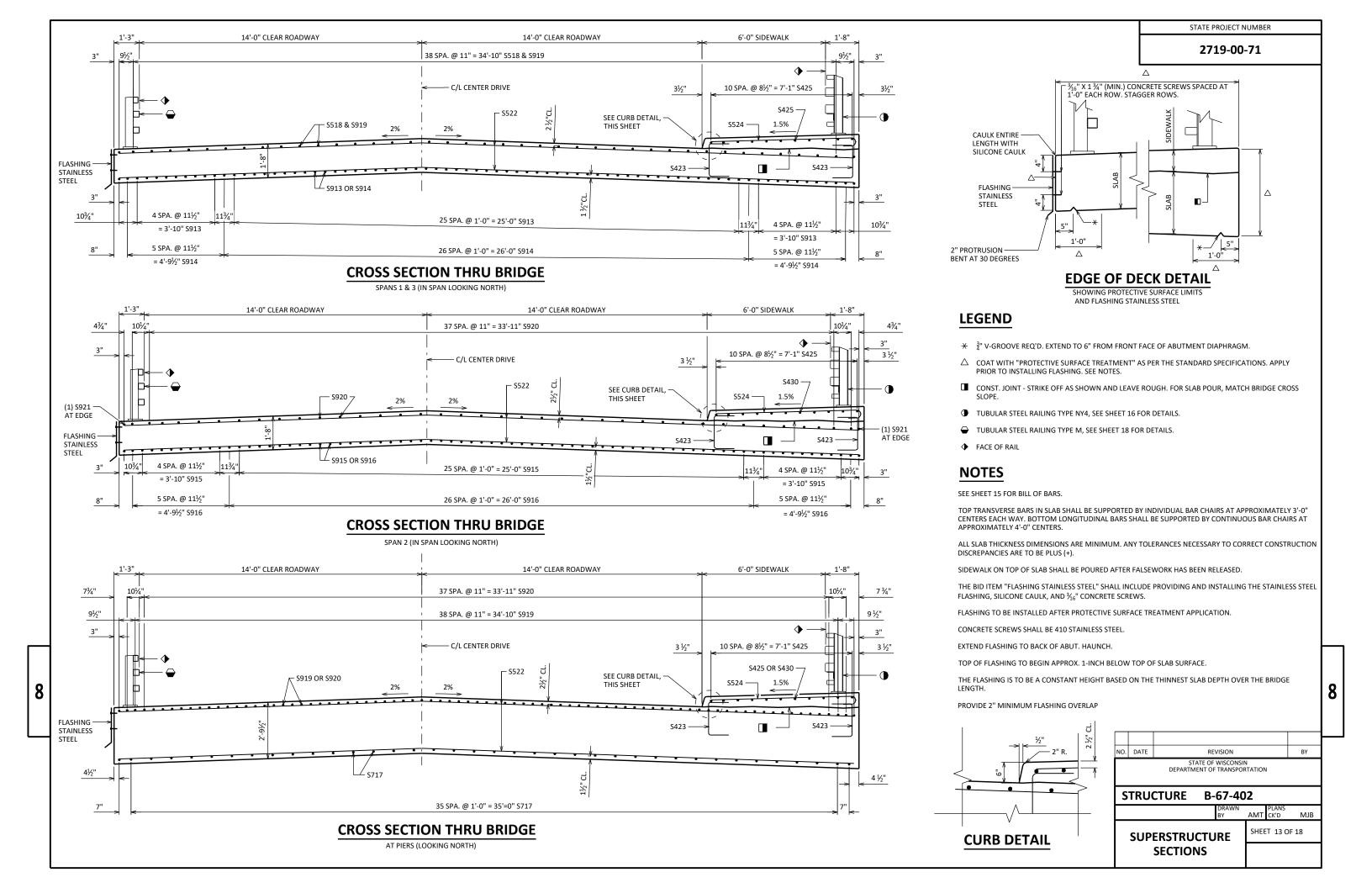
AT PIER 2, COFFERDAM REQUIRED. CONCRETE POURED UNDERWATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH STANDARD SPEC 502.3.5.3. CONCRETE POURED UNDERWATER SHALL NOT EXCEED 10.0 FEET IN DEPTH, UNLESS APPROVED OTHERWISE.

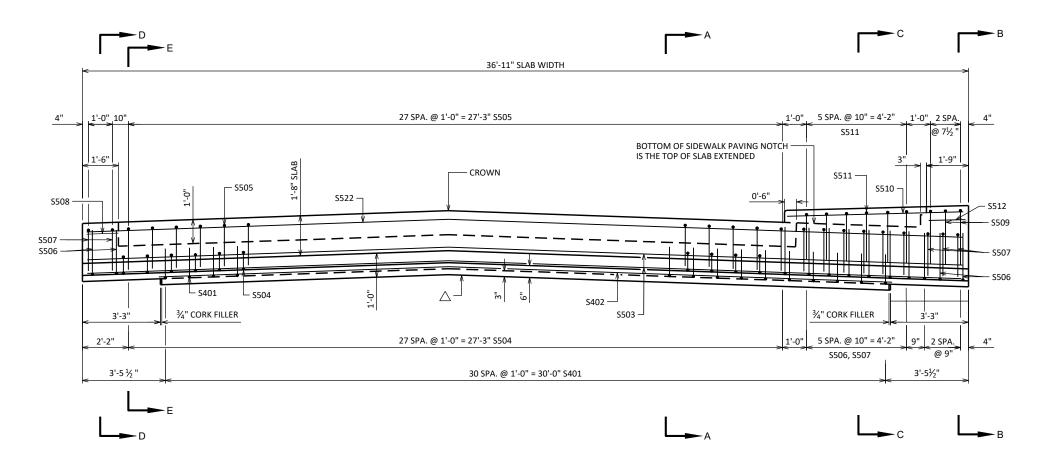
FOR PILE SPLICE DETAIL SEE SHEET 10.

- M506 DOWELS MAY BE PLACED AFTER CONCRETE HAS BEEN POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED BARS 1'-0".
- △ PLACE M404 BARS ADJACENT TO EACH PILE ONLY. TIE TO NEAREST VERT. #5 BAR. VERTICAL SPA. @ 1'-0" TO MATCH #4 OUTSIDE BARS. ALTERNATE THE POSITION OF THE 90 DEG. AND 180 DEG. HOOKS AT EACH VERTICAL LAYER OF TIES.
- KEYED CONST. JOINT FORMED BY A BEVELED 2" X 6"

E.F. DENOTES EACH FACE

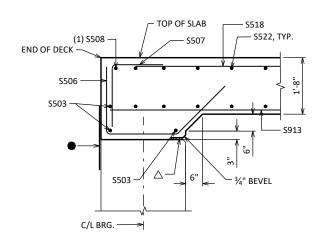






LEGEND

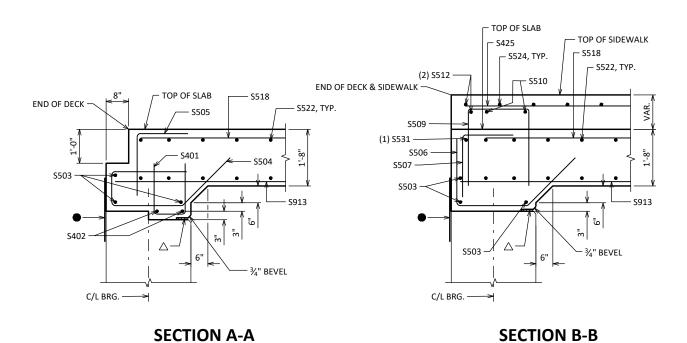
- \triangle 4" X $\frac{3}{4}$ " PREFORMED JOINT FILLER. SEE ABUTMENT SHEETS FOR ADDITIONAL DETAILS.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZ. AND VERT. JOINTS ON BACKFACE.



SECTION D-D

SECTION THRU HAUNCH - NORTH ABUTMENT

LOOKING NORTH AT NORTH ABUTMENT, FRONT FACE SOUTH ABUTMENT FRONT FACE IS OPPOSITE HAND



TOP OF SLAB

S425

S518

S518

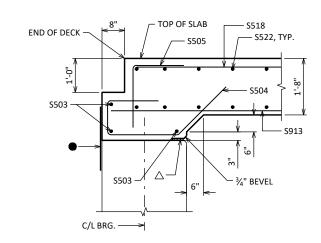
S522, TYP.

S500

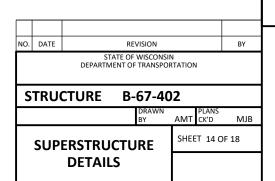
S600

S700

SECTION C-C

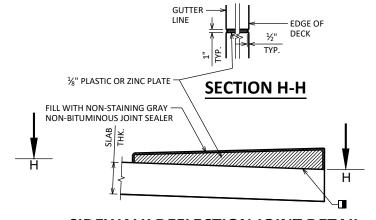


SECTION E-E





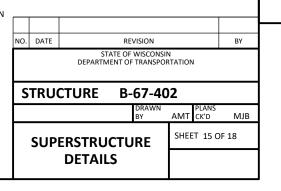


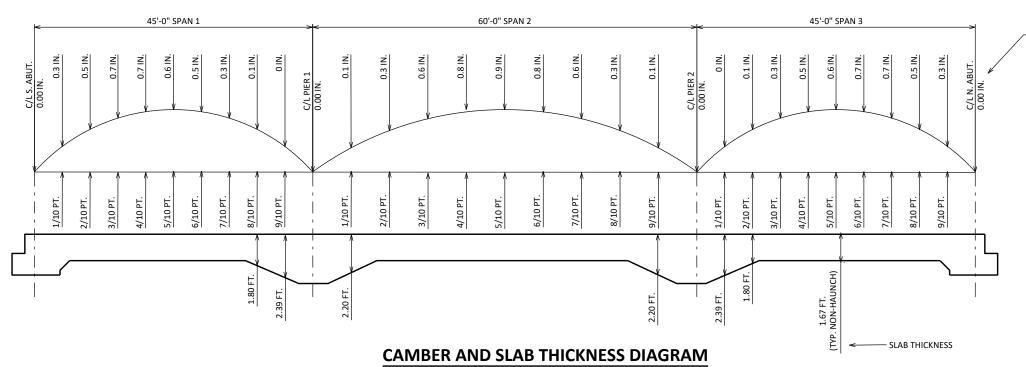


SIDEWALK DEFLECTION JOINT DETAIL

PLACE NORMAL TO REF. LINE OVER PIERS **LEGEND**

CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH FOR SLAB POUR. MATCH BRIDGE CROSS SLOPE.





TOP OF SLAB ELEVATIONS

101 01 3	JEAD LELV	<u> </u>	
LOCATION	WEST EDGE OF SLAB *	PGL CENTER DRIVE	EAST EDGE OF SLAB *
	15.25' LT	-	21.67' RT
C/L S. ABUT.	783.94	784.24	783.81
0.1L POINT	784.02	784.33	783.89
0.2L POINT	784.10	784.41	783.97
0.3L POINT	784.17	784.48	784.05
0.4L POINT	784.24	784.55	784.12
0.5L POINT	784.31	784.61	784.18
0.6L POINT	784.37	784.67	784.24
0.7L POINT	784.43	784.73	784.30
0.8L POINT	784.48	784.78	784.35
0.9L POINT	784.52	784.83	784.39
C/L PIER 1	784.56	784.87	784.44
0.1L POINT	784.61	784.92	784.49
0.2L POINT	784.65	784.96	784.53
0.3L POINT	784.69	784.99	784.56
0.4L POINT	784.71	785.02	784.58
0.5L POINT	784.73	785.03	784.60
0.6L POINT	784.74	785.04	784.61
0.7L POINT	784.74	785.04	784.61
0.8L POINT	784.73	785.03	784.60
0.9L POINT	784.71	785.02	784.58
C/L PIER 2	784.69	784.99	784.56
0.1L POINT	784.66	784.97	784.53
0.2L POINT	784.63	784.94	784.51
0.3L POINT	784.60	784.91	784.47
0.4L POINT	784.56	784.87	784.43
0.5L POINT	784.52	784.83	784.39
0.6L POINT	784.47	784.78	784.35
0.7L POINT	784.42	784.73	784.29
0.8L POINT	784.37	784.67	784.24
0.9L POINT	784.32	784.62	784.19
C/L N. ABUT.	784.26	784.57	784.13

* EDGE OF SLAB ELEVATION IS TOP OUTER EDGE OF THE SLAB BENEATH

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT, PARAPETS. SIDEWALKS AND MEDIANS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

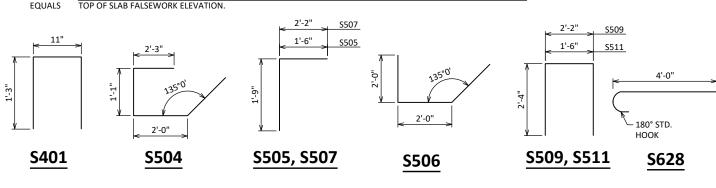
TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE: TOP OF SLAB ELEVATION AT FINAL GRADE

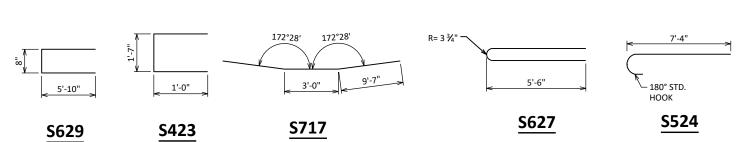
MINUS SLAB THICKNESS

PLUS

FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR) PLUS

TOP OF SLAB FALSEWORK ELEVATION.

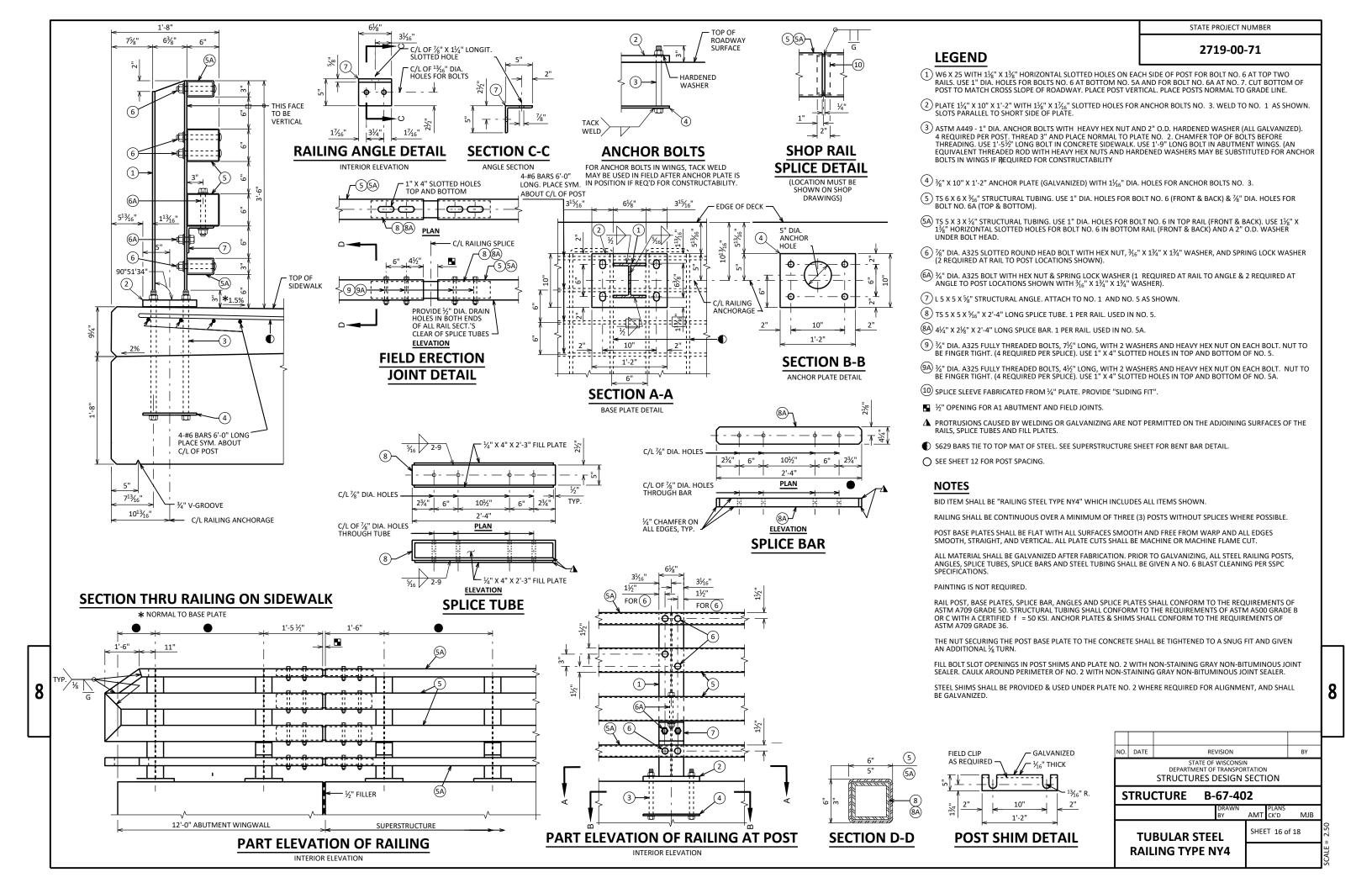


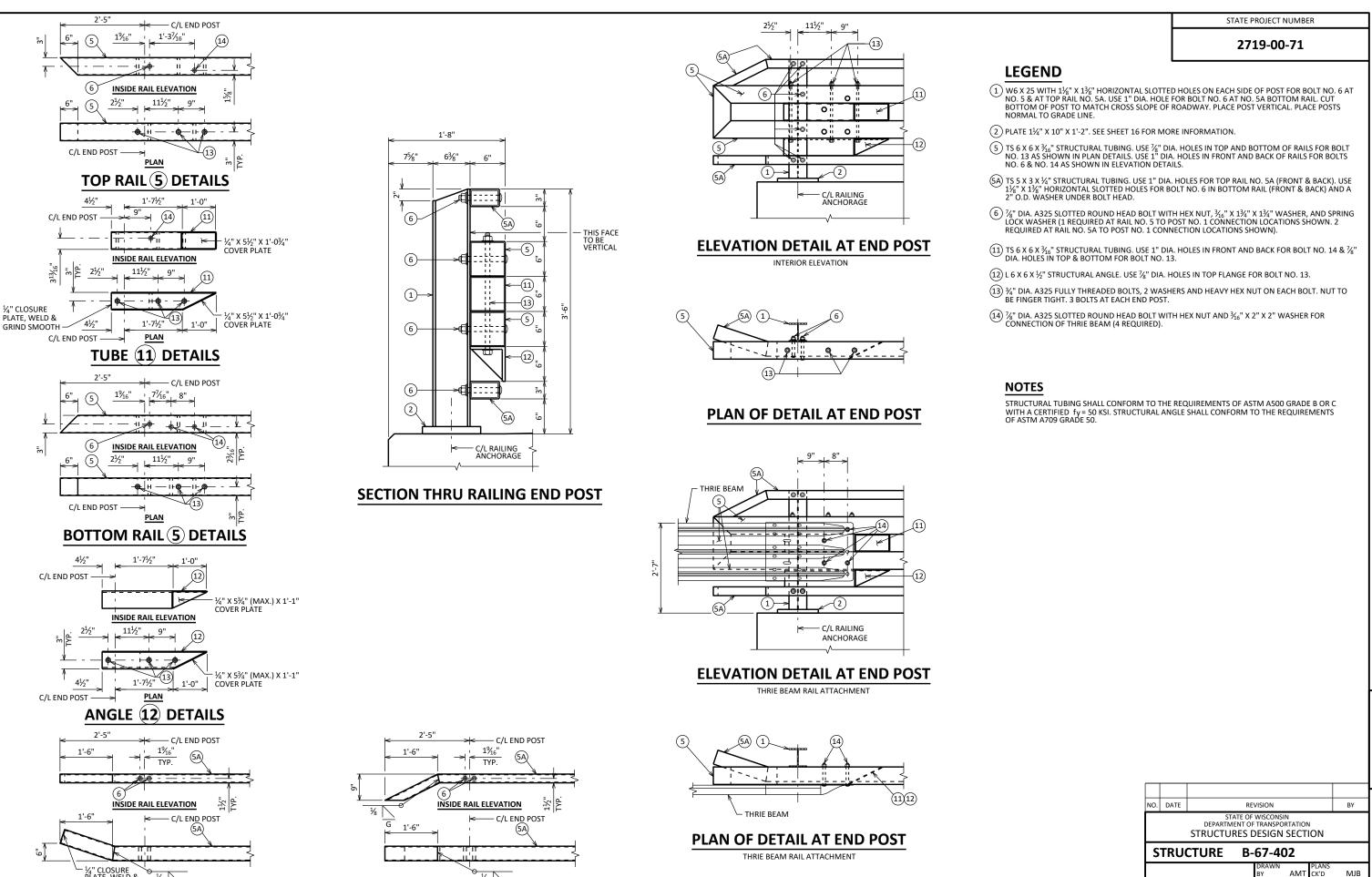


SURVEY TOP OF SLAB ELEVATIONS

	C/L BRG. S. ABUT.	5/10 PT.	C/L PIER 1	5/10 PT.	C/L PIER 2	5/10 PT.	C/L BRG. N. ABUT.
WEST EDGE OF SLAB							
PGL CENTER DRIVE/ CROWN PT.							
EAST EDGE OF SLAB							

PRIOR TO RELEASING SLAB FALSE WORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS, THE C/L OF PIERS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGES OF SLAB, AND PGL. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.





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TOP RAIL (5A) DETAILS

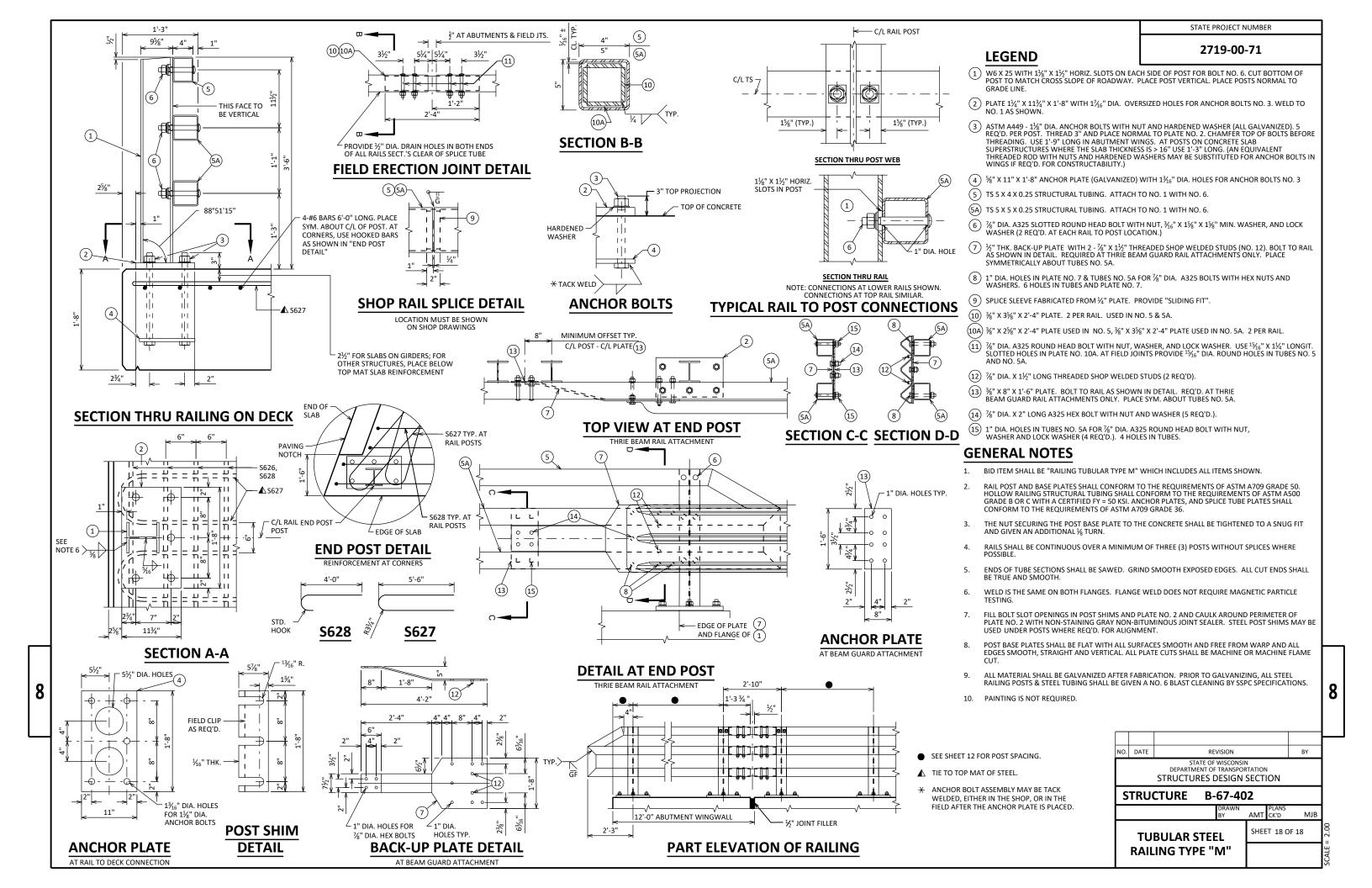
BOTTOM RAIL (5A) DETAILS

SCALE = 2.50

SHEET 17 OF 18

TUBULAR STEEL

RAILING TYPE NY4



DIVISION 1 - SOUTH OF BRIDGE

DIVISION 1 - SOU	I		AREA	A (SF)	INCREMENTAL VO	L (CY) (UNADJUSTED)		CUMULATIVE VO	L (CY)
STATION	REAL STATION	DISTANCE	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL	MASS ORDINATE
					NOTE 1	NOTE 3	NOTE 1		NOTE 8
21+42.93	2142.93	0.00	2.83	16.36	0	0	0	0	0
21+50.00	2150.00	7.07	3.14	15.82	1	4	1	4	-3
21+75.00	2175.00	25.00	3.24	18.78	3	16	4	20	-16
22+00.00	2200.00	25.00	4.01	19.90	3	18	7	38	-31
22+23.99	2223.99	23.99	3.66	25.57	3	20	10	58	-48
22+24.00	2224.00	0.01	8.07	37.04	0	0	10	58	-48
22+44.79	2244.79	20.79	4.90	50.61	5	34	15	92	-77
22+44.80	2244.80	0.01	17.81	50.65	0	0	15	92	-77
22+52.40	2252.40	7.60	25.62	84.28	6	19	21	111	-90
22+67.69	2267.69	15.29	23.05	61.43	14	41	35	152	-117
22+67.72	2267.72	0.03	5.30	61.30	0	0	35	152	-117
22+75.00	2275.00	7.28	8.62	42.60	2	14	37	166	-129
23+00.00	2300.00	25.00	18.56	22.16	13	30	50	196	-146
23+25.00	2325.00	25.00	21.01	16.73	18	18	68	214	-146
23+50.00	2350.00	25.00	13.38	50.40	16	31	84	245	-161
23+59.63	2359.63	9.63	15.56	47.14	5	17	89	262	-173
23+68.12	2368.12	8.49	18.20	39.38	5	14	94	276	-182
23+75.00	2375.00	6.88	19.03	23.60	5	8	99	284	-185
23+99.99	2399.99	24.99	7.05	36.94	12	28	111	312	-201
24+00.00	2400.00	0.01	35.93	36.99	0	0	111	312	-201
24+25.00	2425.00	25.00	33.83	67.17	32	48	143	360	-217
24+50.00	2450.00	25.00	34.31	78.11	32	67	175	427	-252
24+65.49	2465.49	15.49	52.63	52.30	25	37	200	464	-264

DIVISION 1 - NORTH OF BRIDGE

			AREA	(SF)	INCREMENTAL VOL	(CY) (UNADJUSTED)		CUMULATIVE VO	L (CY)
STATION	REAL STATION	DISTANCE	CUT	FILL	СИТ	FILL	CUT 1.00	EXPANDED FILL	MASS ORDINATE
					NOTE 1	NOTE 3	NOTE 1		NOTE 8
26+43.25	2643.25	0.00	36.56	84.84	0	0	0	0	0
26+50.00	2650.00	6.75	35.38	82.05	9	21	9	21	-12
26+75.00	2675.00	25.00	32.83	82.02	32	76	41	97	-56
26+99.99	2699.99	24.99	31.16	72.44	30	71	71	168	-97
27+00.00	2700.00	0.01	5.73	66.44	0	0	71	168	-97
27+15.73	2715.73	15.73	5.96	66.59	3	39	74	207	-133
27+25.00	2725.00	9.27	6.54	40.25	2	18	76	225	-149
27+40.73	2740.73	15.73	6.50	25.08	4	19	80	244	-164
27+50.00	2750.00	9.27	7.05	16.95	2	7	82	251	-169
27+75.00	2775.00	25.00	5.71	10.03	6	12	88	263	-175
28+00.00	2800.00	25.00	8.24	3.44	6	6	94	269	-175
28+25.00	2825.00	25.00	11.17	0.57	9	2	103	271	-168
28+50.00	2850.00	25.00	13.65	0.00	11	0	114	271	-157
28+75.00	2875.00	25.00	13.14	0.00	12	0	126	271	-145
29+00.00	2900.00	25.00	13.15	0.00	12	0	138	271	-133
29+04.65	2904.65	4.65	12.02	0.00	2	0	140	271	-131
29+04.66	2904.66	0.01	6.35	0.00	0	0	140	271	-131
29+18.85	2918.85	14.19	4.50	0.00	3	0	143	271	-128

TES:	
CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL

NOTES 1 - CUT 3 - FILL

DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

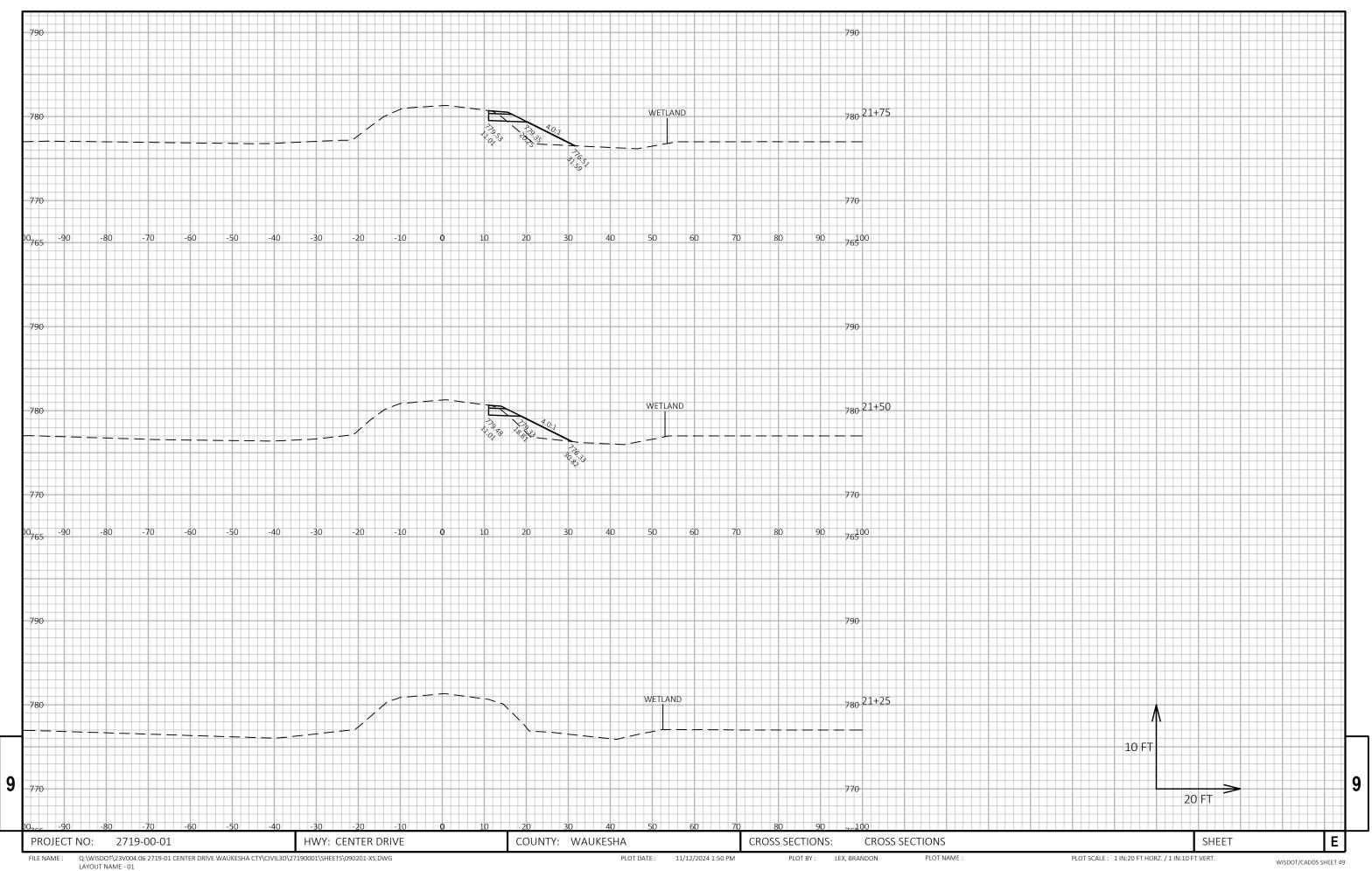
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FILE NAME :

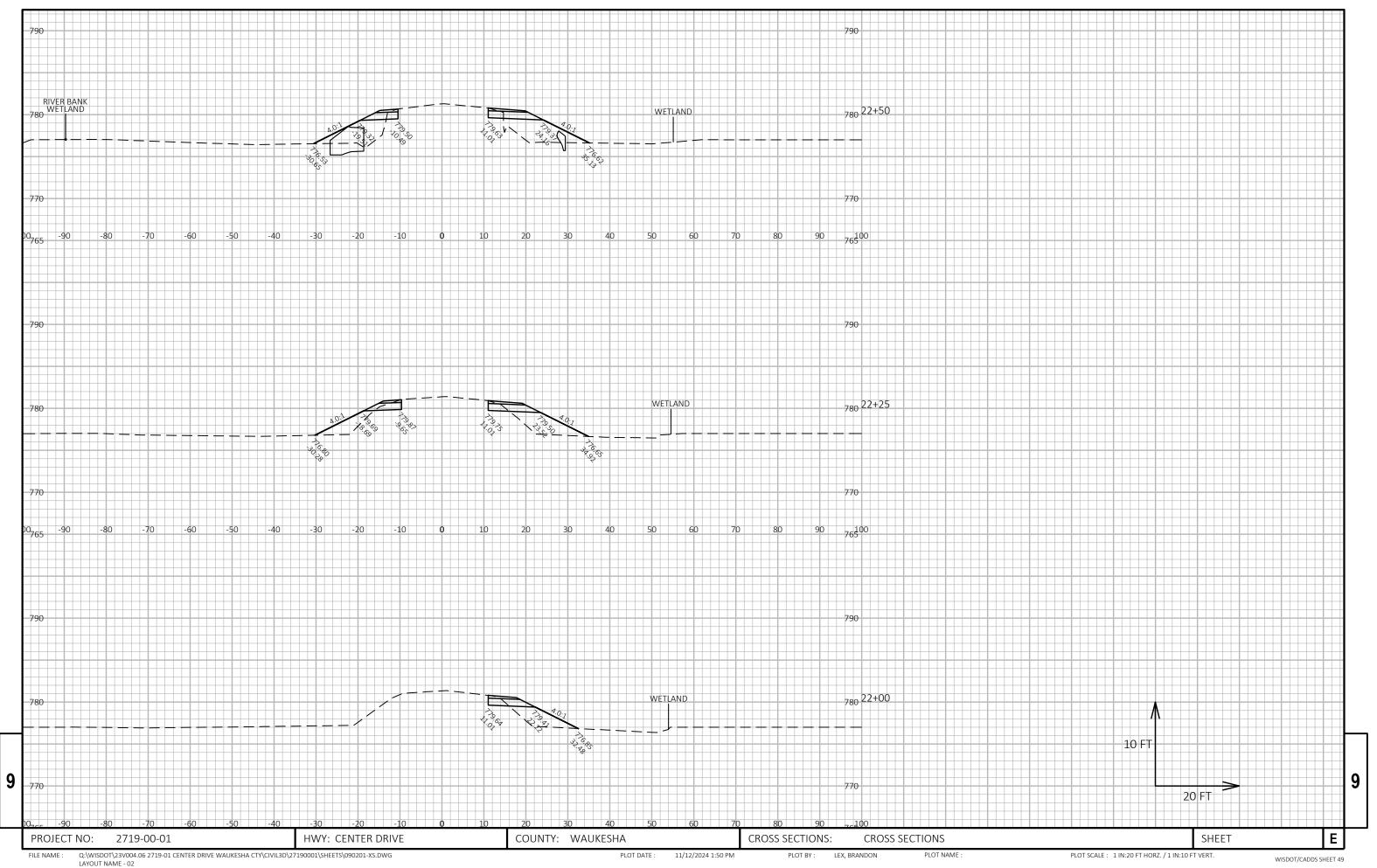
PLOT DATE : 9/12/2024 8:48 PM

PLOT NAME :

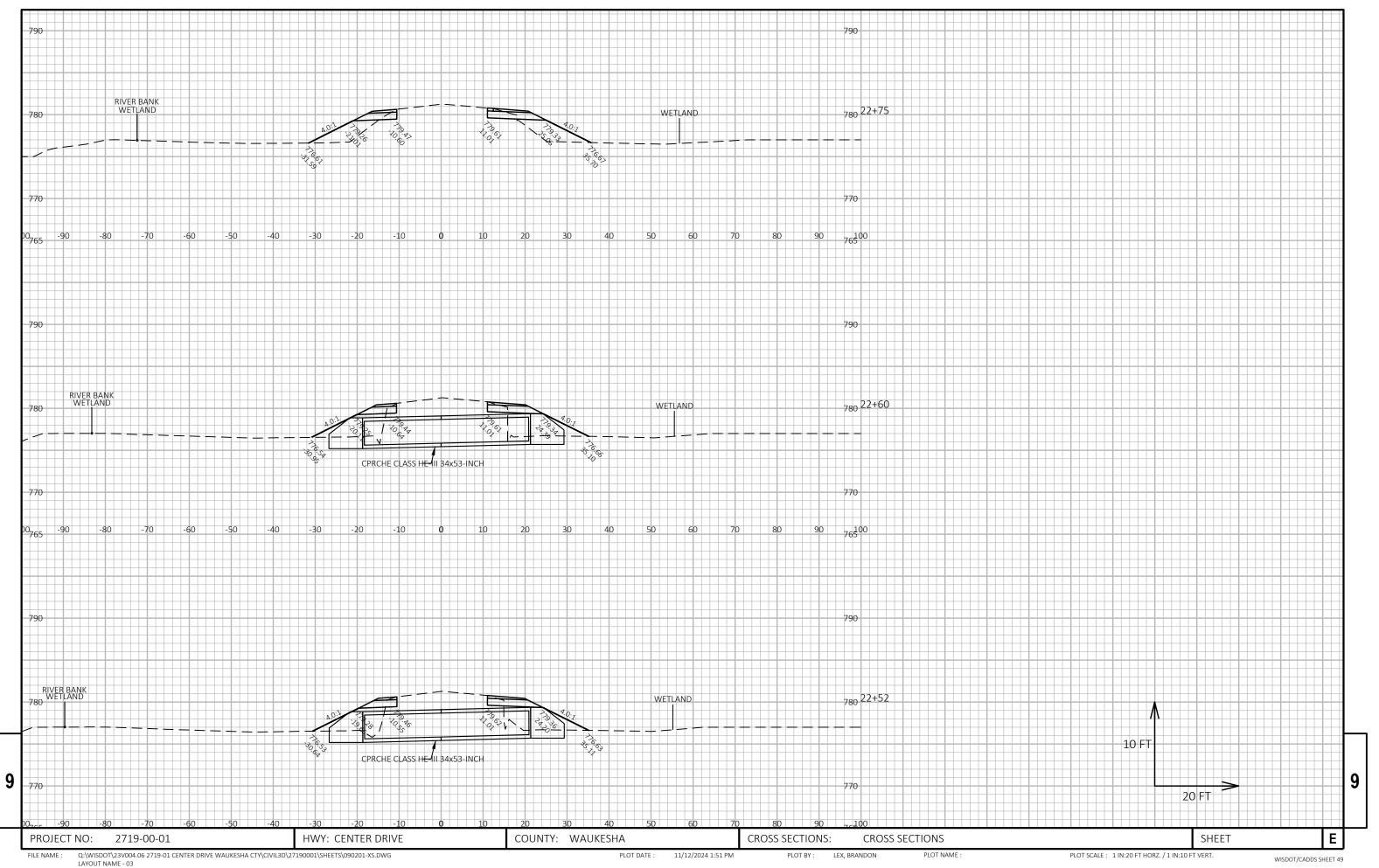
PLOT SCALE : 1" = 1'



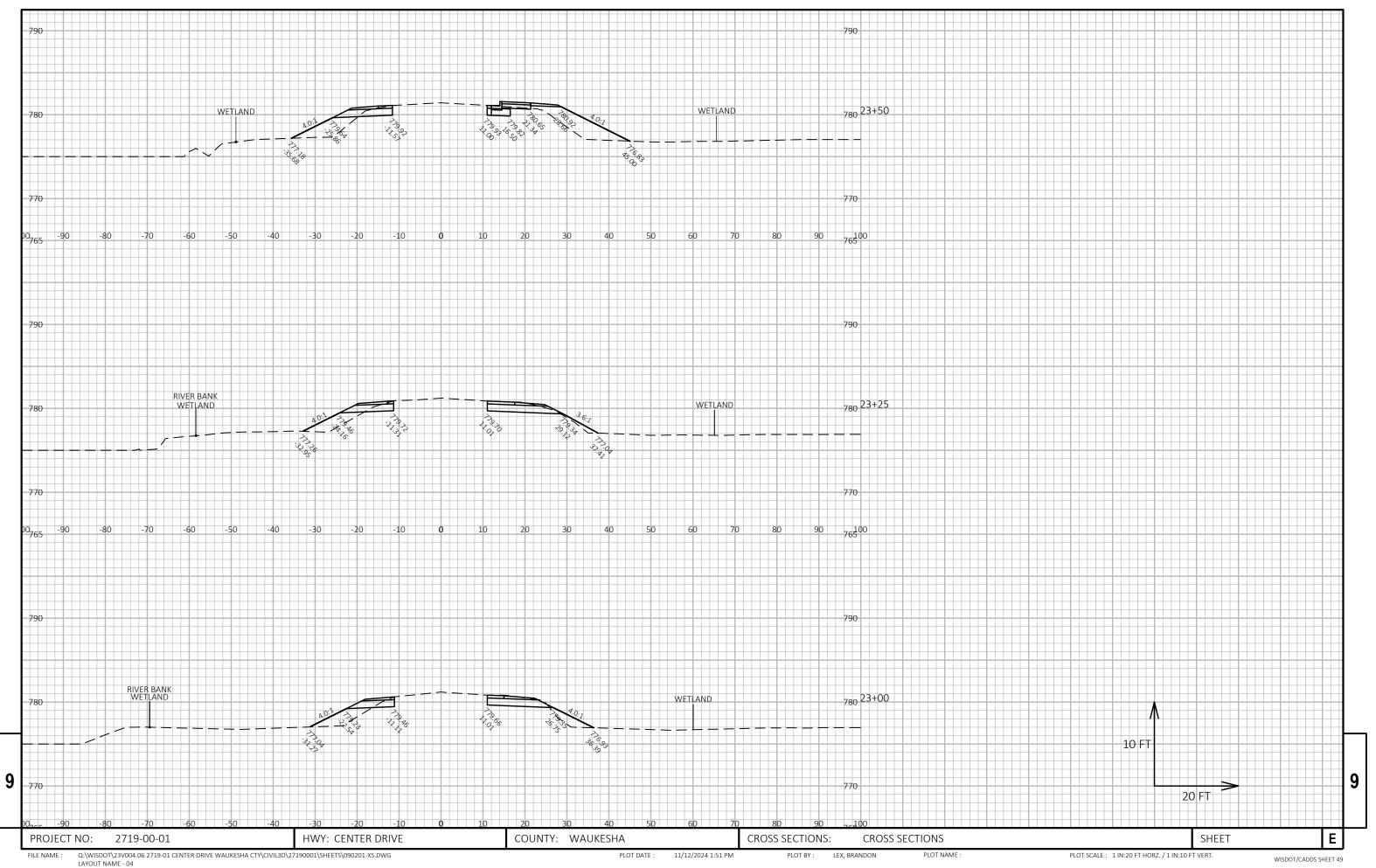
ENGOTIVAME - 01

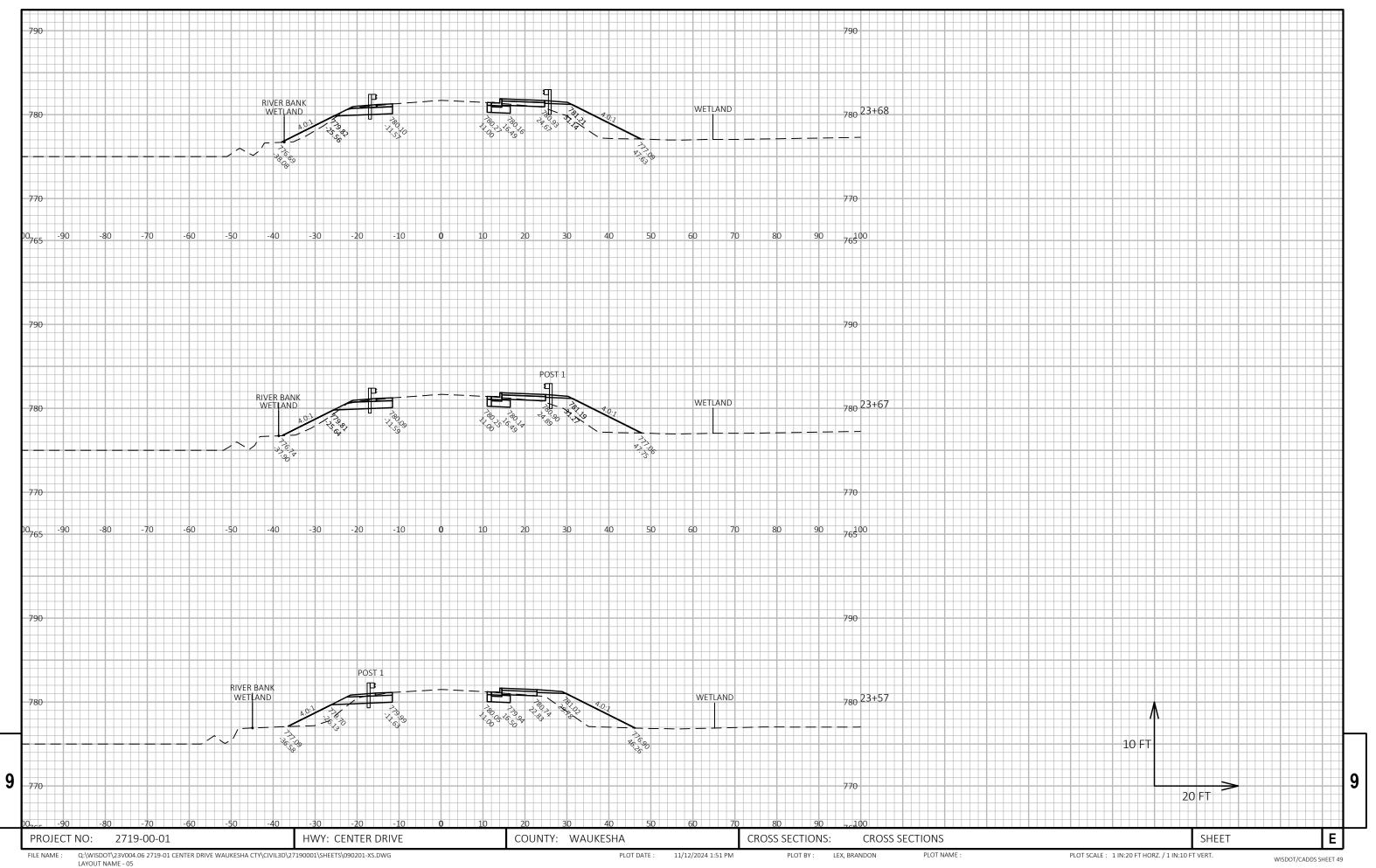


LATOUT NAIVIE - UZ

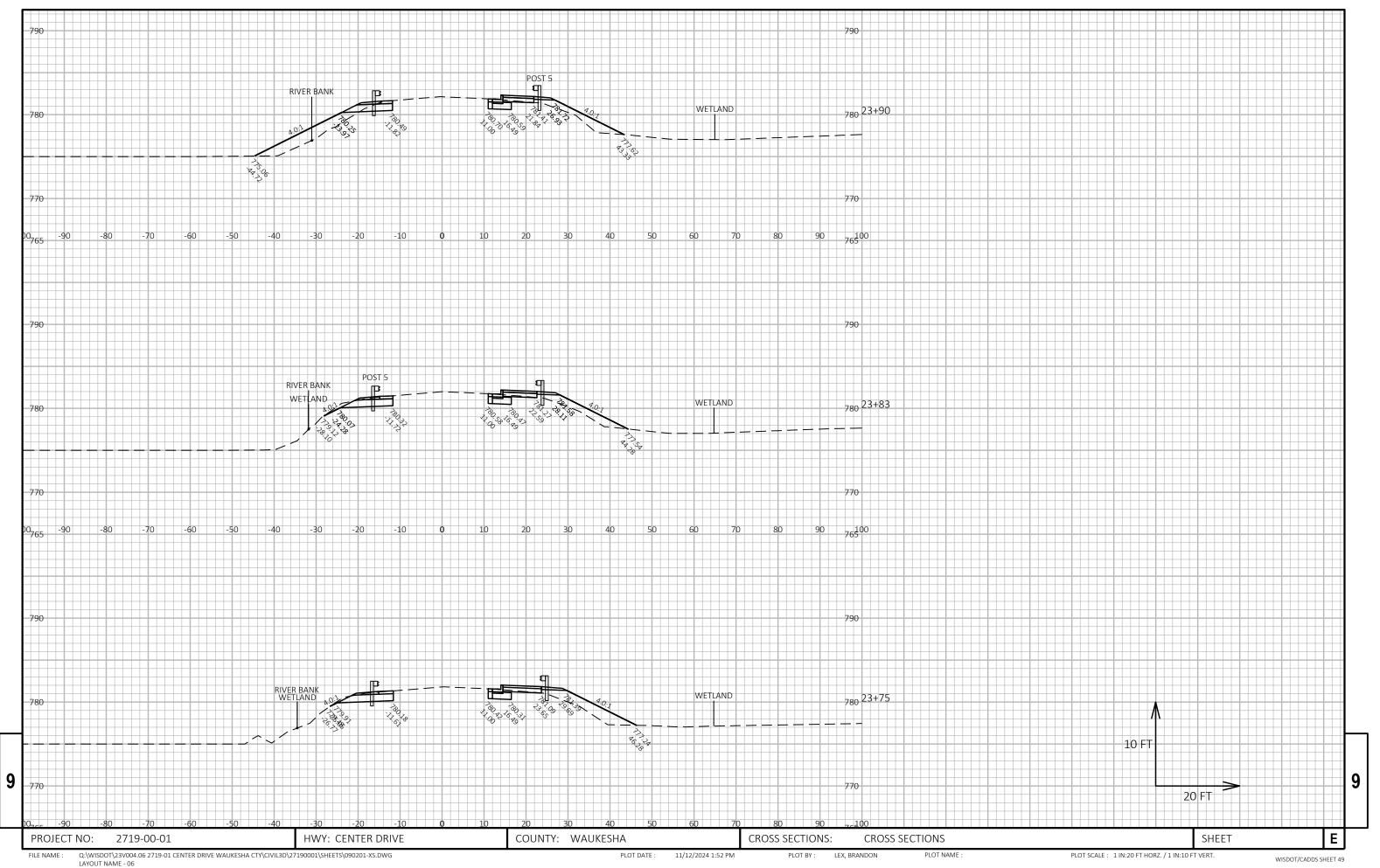


LATOUT NAIME - US

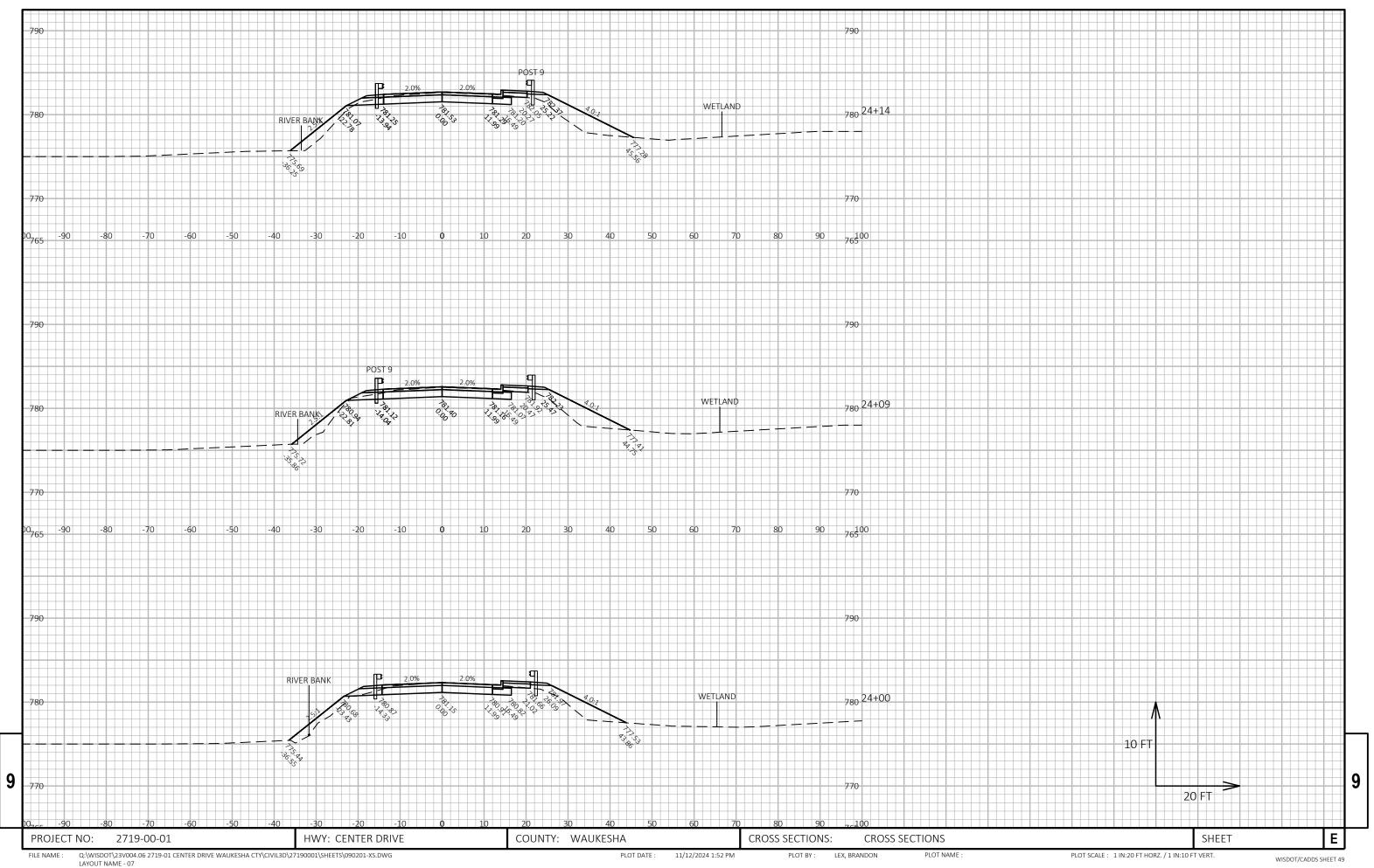


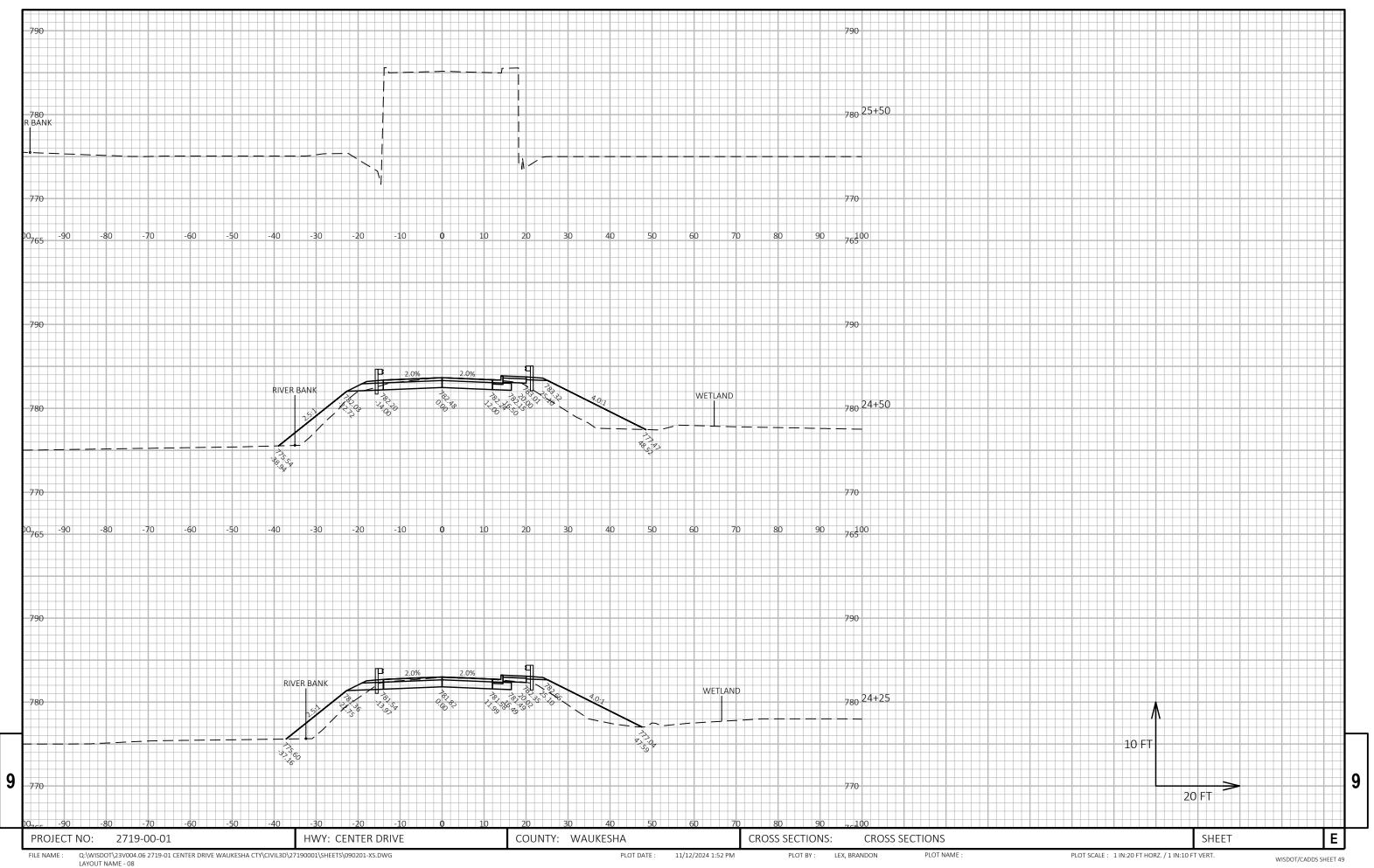


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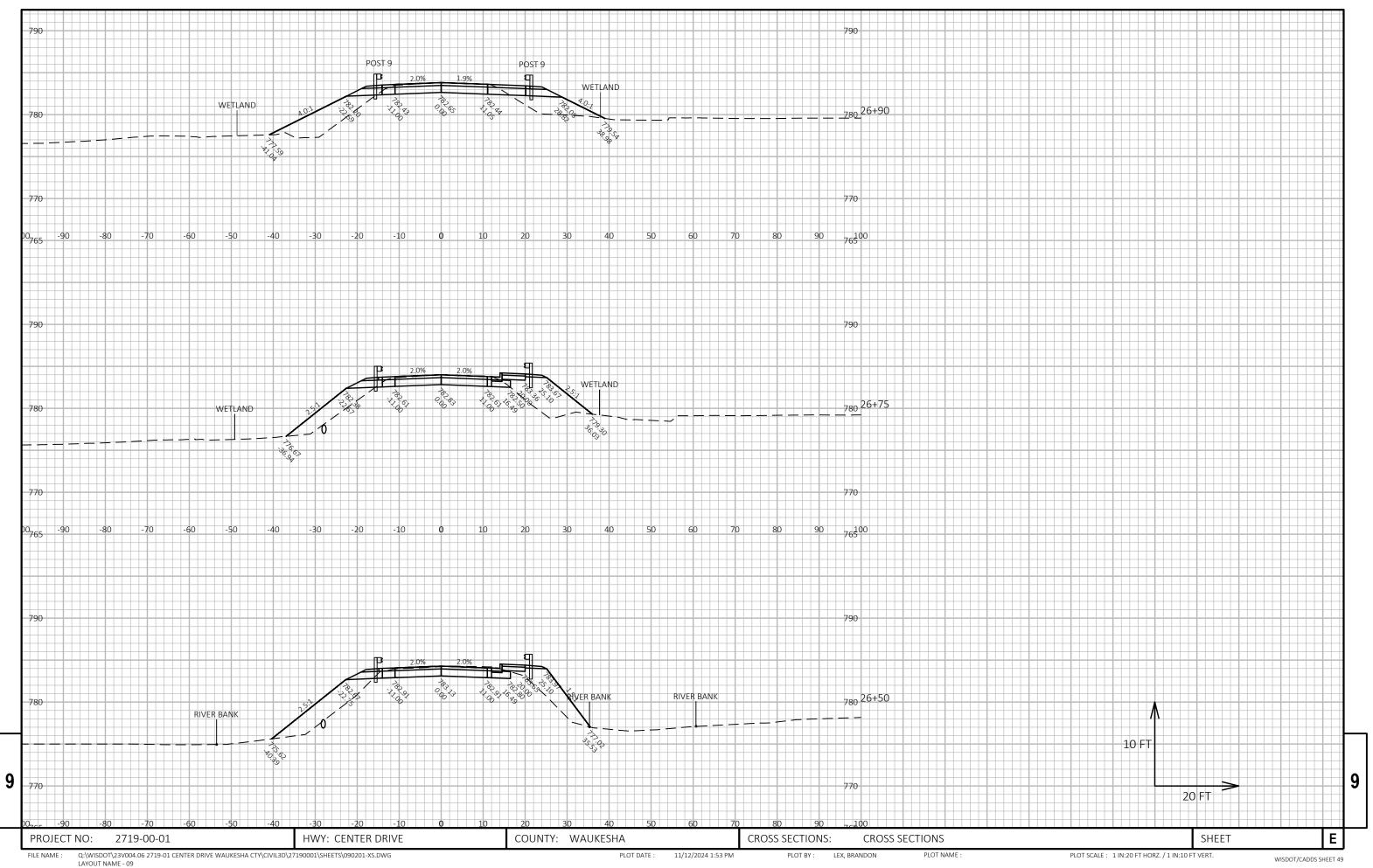


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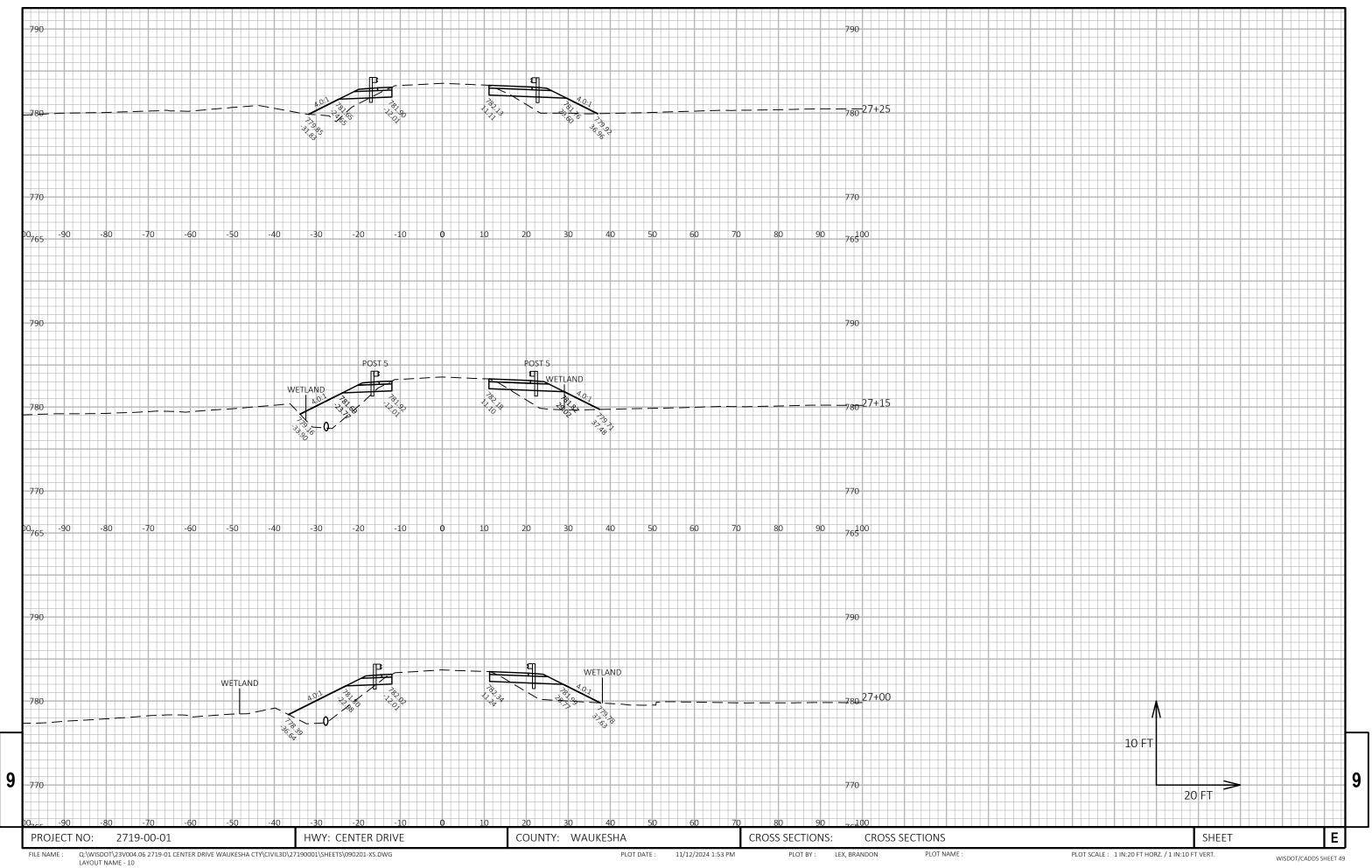


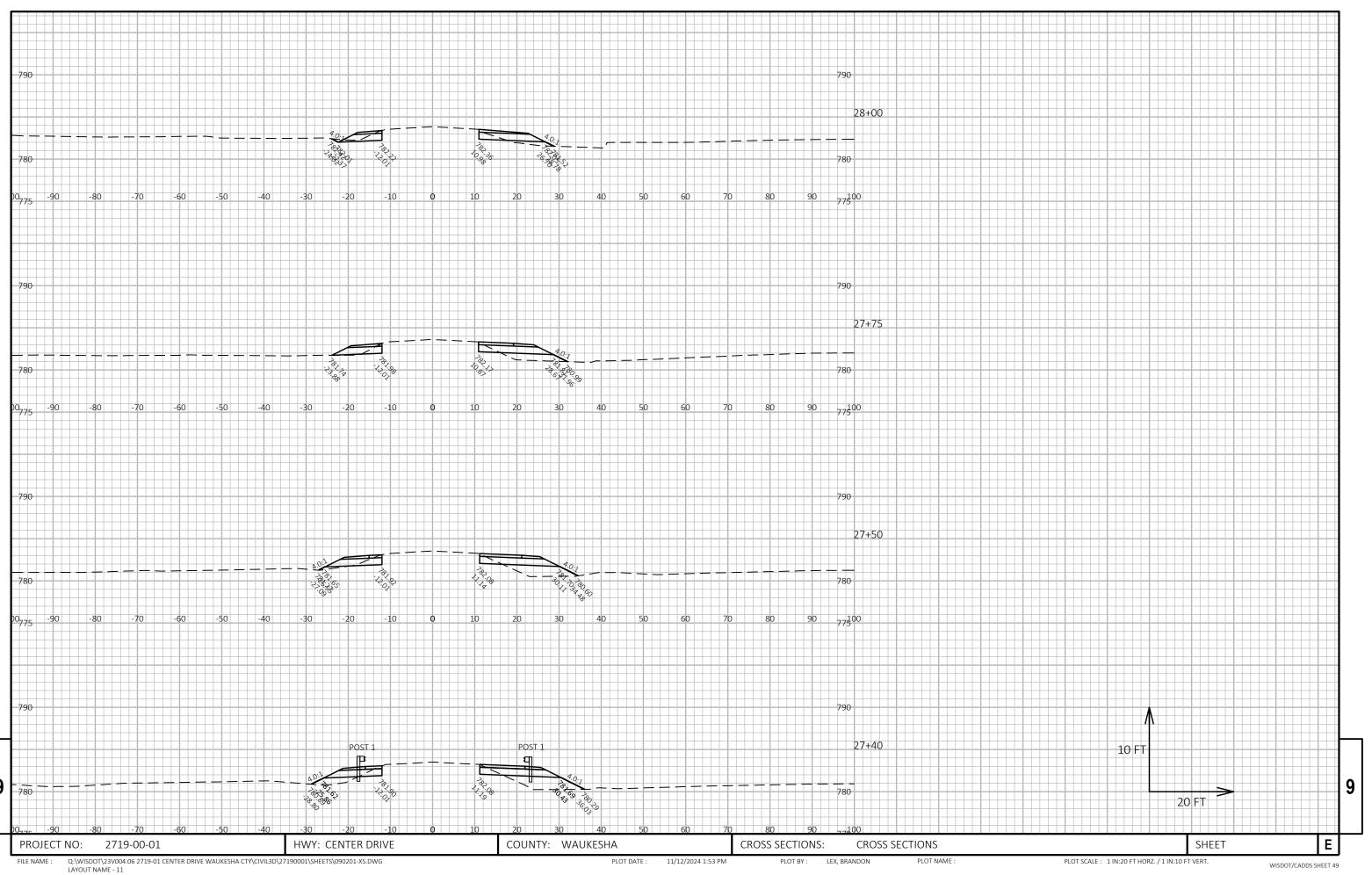


EATOUT MAINE - US

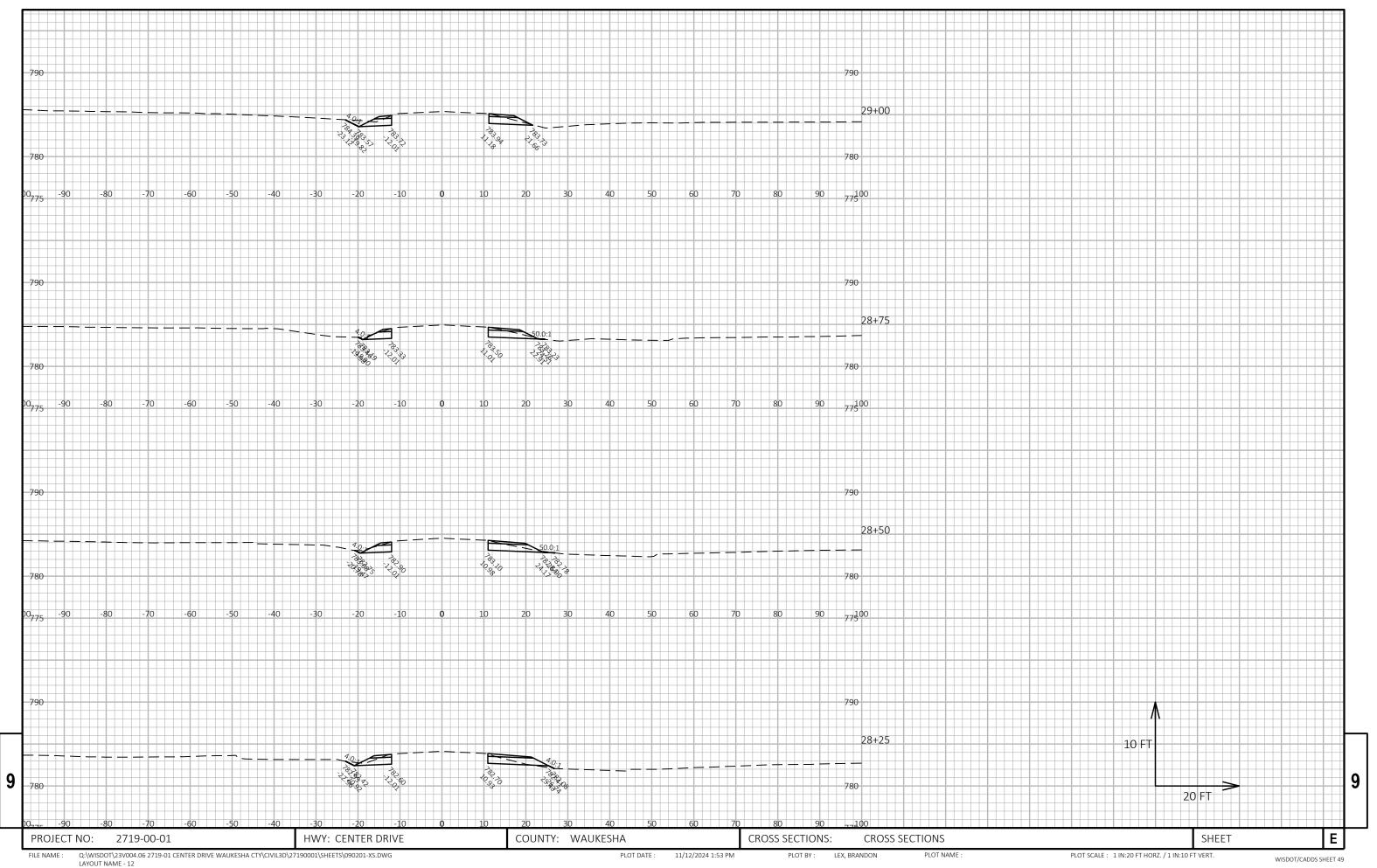


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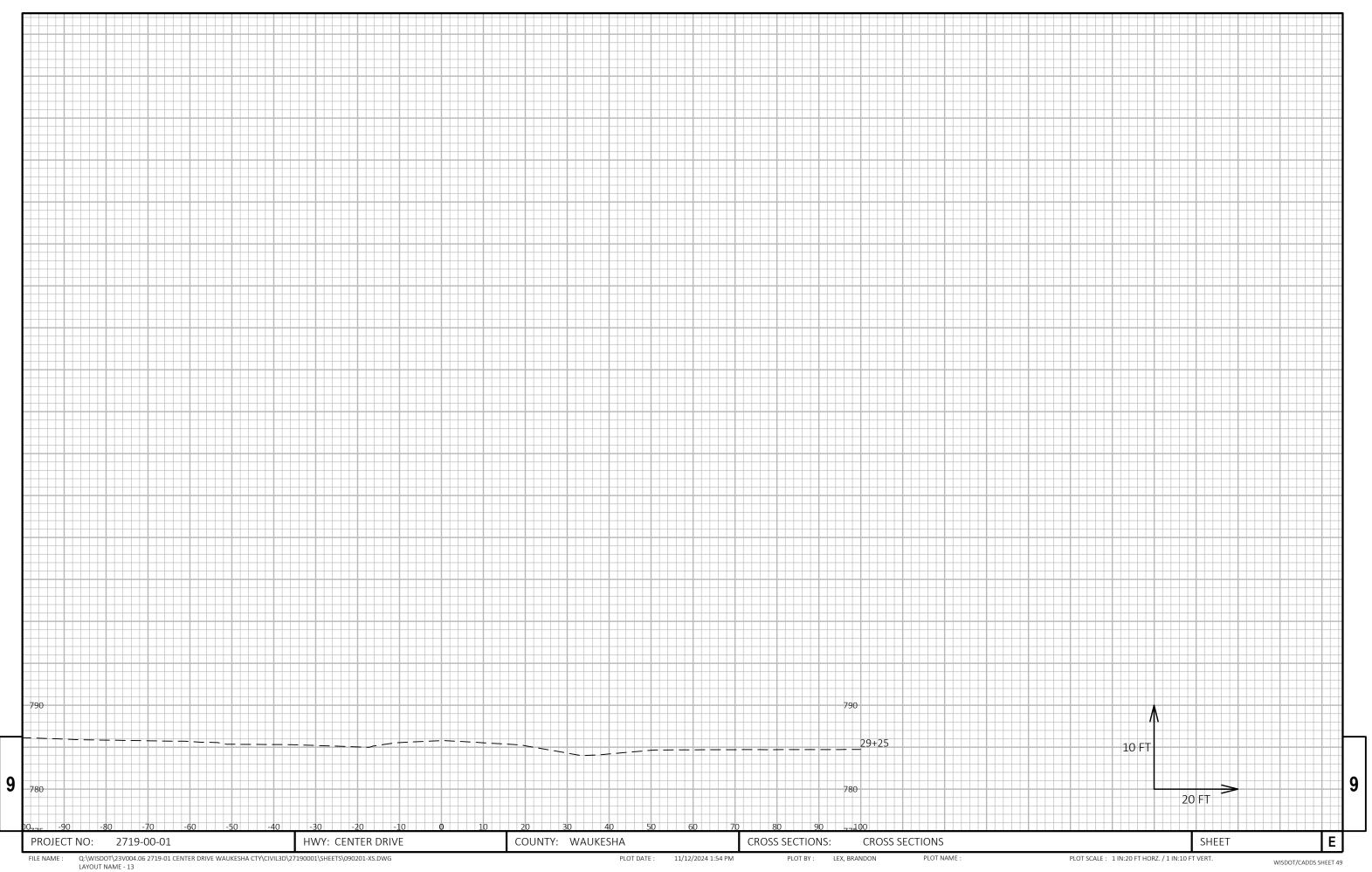




LATOUT NAIVIE - 11



LAYOUT NAME - 12



LAYOUT NAME - 13



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