### WIS Jan 11, 2022

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0 ORDER OF SHEETS

- Section No. 1 Title Typical Sections and Details (Erosion Control Section No. 2 Plans Included) Estimate of Quantities Section No. 3 Miscellaneous Quantities Section No. 3 Right of Way Plat Section No. 4 Plan and Profile Section No. 5 Section No. 6 Standard Detail Drawings Section No. 7 Sign Plates Section No. 8 Structure Plans Section No. 9 Computer Earthwork Data
- Section No. 9 Cross Sections

TOTAL SHEETS = 116

### DESIGN DESIGNATION 9318-02-00

A.A.D.T.	(2022)	=	6,300
A.A.D.T.	(2042)	=	7,000
D.H.V.	(2042)	=	700
D.D.		=	60/40
т.		=	11%
DESIGN S	PEED	=	40 MPH
ESALS		=	1,600,000

CONVENTIONAL SYMBOLS CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT 0 EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)

MARSH AREA

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

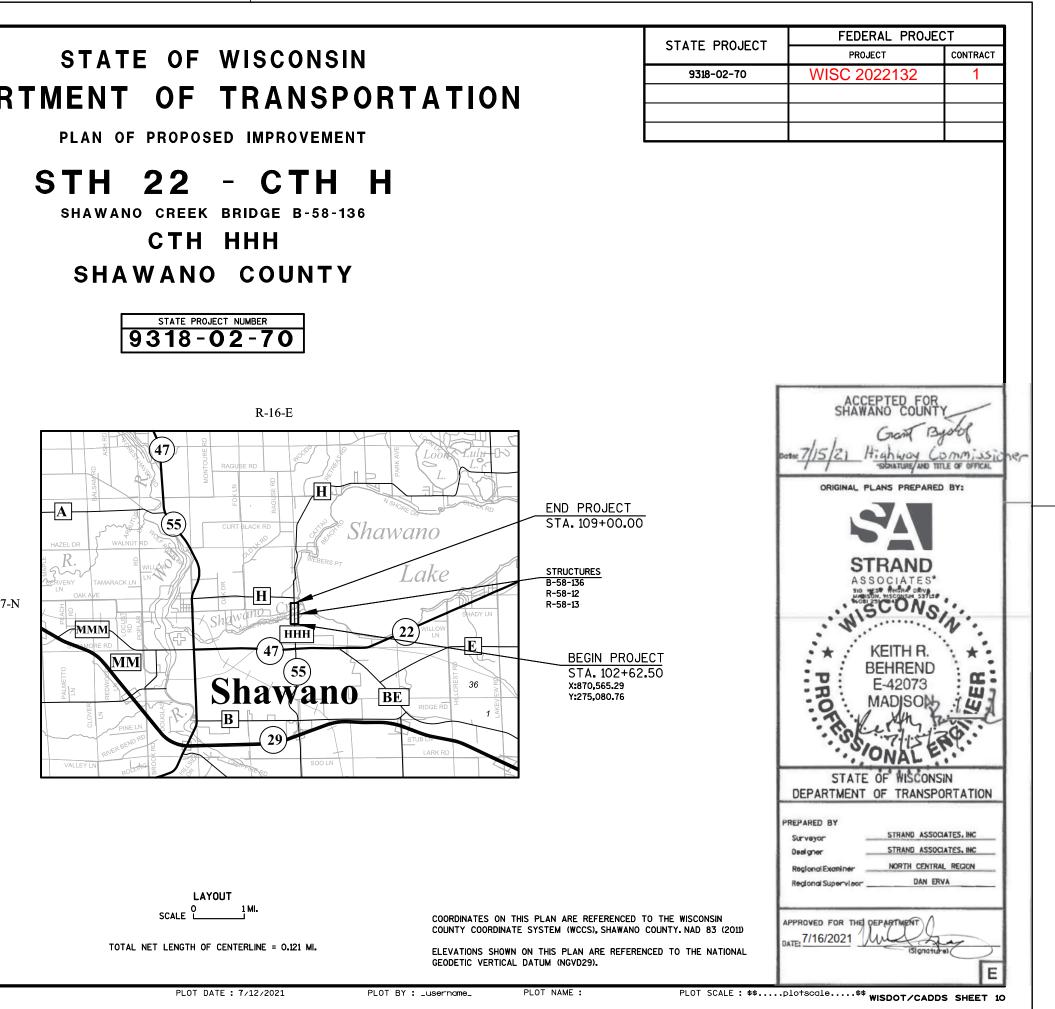
GRADE LINE <u>///////</u> ORIGINAL GROUND MARSH OR ROCK PROFILE -----(To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) -----UTILITIES ELECTRIC ----FIBER OPTIC GAS SANITARY SEWER STORM SEWER TELEPHONE WATER UTILITY PEDESTAL POWER POLE TELEPHONE POLE

PROFILE

# DEPARTMENT OF TRANSPORTATION

СТН ННН





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T-27-N

ROCK

LABEL

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2	GENERAL NOTES EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER IN CONSULTATION WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES. MAINTAIN ALL EROSION CONTROL MEASURES UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.	UTILITY CONTACT FRONTIER COMMUNICATIONS
_	ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.	
	ALL EXISTING SIGNS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OPERATIONS REQUIRE THEIR REMOVAL OR UNLESS THE ENGINEER APPROVES THEIR REMOVAL.	NSIGHT (NET LEC, LLC)
	SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO CONSTRUCTION.	
	DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.	SHAWANO LAKE SANITARY DISTRICT
-	REMOVAL ITEMS SHALL BE REMOVED TO AN EXISTING JOINT, SAWCUT WHERE SHOWN ON PLANS, OR AS DIRECTED BY THE ENGINEER.	
	THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN THE DRIVING, TURNING, OR BIKE LANE.	SPECTRUM (CHARTER)
	NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.	
	THE LOCATION OF DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.	
	EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGES BUT IS MEASURED AND PAID FOR AS EXCAVATION COMMON.	WE ENERGIES (ELECTRIC)
	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.	
	A SAWED JOINT SHALL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.	WE ENERGIES (GAS)

DESIGN CONTACT

KEITH BEHREND P.E. STRAND ASSOCIATES, INC. 910 W. WINGRA DR. MADISON, WI 53715 PH: (608) 251-4843 keith.behrend@STRAND.COM

### COUNTY CONTACT HUNTER HOFFMAN P.E. SHAWANO COUNTY HIGHWAY DEPARTMENT 3035 E. RICHMOND STREET SHAWANO, WI 54166 PH: (715) 526-9182

# TRAND.COM hunter.hoffman@CO.SHAWANO.WI.US

WISDOT CONTACT JASON SCHAEFFER WISDOT NC REGION 1681 2nd AVENUE SOUTH

WISDOT NC REGION 1681 2nd AVENUE SOUTH WISCONSIN RAPIDS, WI54495 PH: (715) 421-7309 Jason.schaeffer@DOT.WI.GOV

### DNR CONTACT

JIM DOPERALSKI, JR. NORTHEAST REGION 2984 SHAWANO AVE. GREEN BAY, WI 54313 PH: (920) 412-0165 James.doperalski@WISCONSIN.GOV

### ASPHALT BID/MIX SPECIFICATIONS

2

	THICKNESS	BID/MIX SPECIFICATIONS
UPPER LAYER	2-INCH	4 MT 58-28 H
LOWER LAYER	4.5-INCH	3 MT 58-28 S

PROJECT NO:9318-02-70	НЖА:СТН ННН	COUNTY: SHAWANO	GENERAL NOTES	
FILE NAME : S:\MAD\15001599\1563\001\Drawings\CAD\MICROS\	- PLAN\020101_gn.dgn	PLOT DATE : 5/19/2021	PLOT BY : _username_	PLOT NAME :

## UTILITY CONTACT

KEVIN OTTEN 1345 NORTH ROAD, SUITE B GREEN BAY, WI54313 PH: (920) 465-8018, EXT. 8906 kotten@ml-tech.us

RICK VINCENT 450 SECURITY BOULEVARD GREEN BAY, WI 54313 PH: (920) 617-700 rick.vincentensight.com

JERRY WEISNICHT N4802 RIVER BEND ROAD SHAWANO, WI. 54166 PH: (715) 524-2176 shawis**e**granitewave.com

BILL PARMENTER 853 MCINTOSH STREET WAUSAU, WI 54401 PH: (608) 301-6189 BIII.Parmenter@CHARTER.COM

SHANE BRUHNKE 800 S. LYNNDALE DRIVE APPLETON, WI 54912 PH: (920) 450-5648 WE-Utility-Relocations@we-energies.com

EDDIE HEDLUND 800 S. LYNNDALE DRIVE APPLETON, WI 54912 PH: (920) 470-0418 WE-Utility-Relocations@we-energies.com

### UTILITY TYPE

TELEPHONE

FIBER

WATER, SANITARY SEWER

FIBER

ELECTRIC

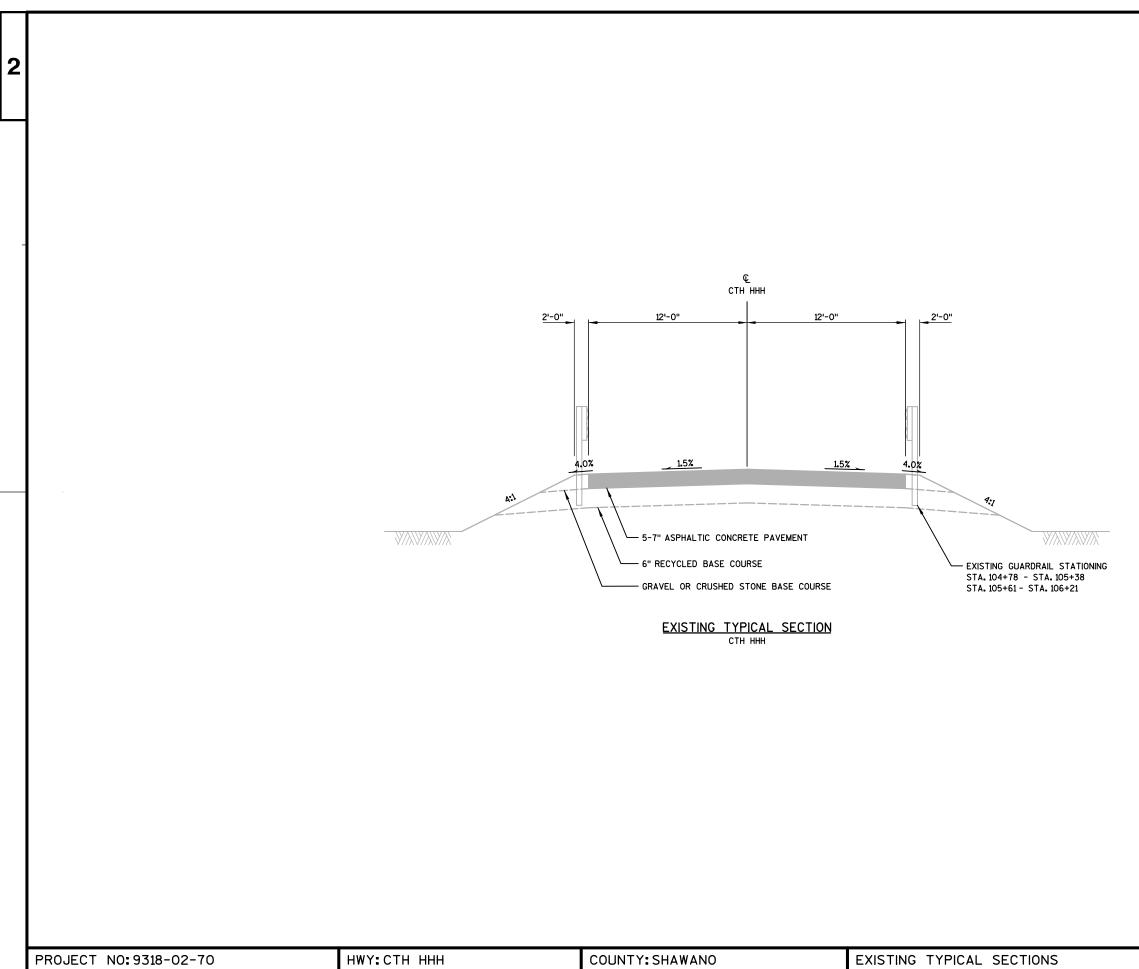
GAS

Dial Or (800)242-8511

# www.DiggersHotline.com

\*\* NOT A MEMBER OF DIGGERS HOTLINE

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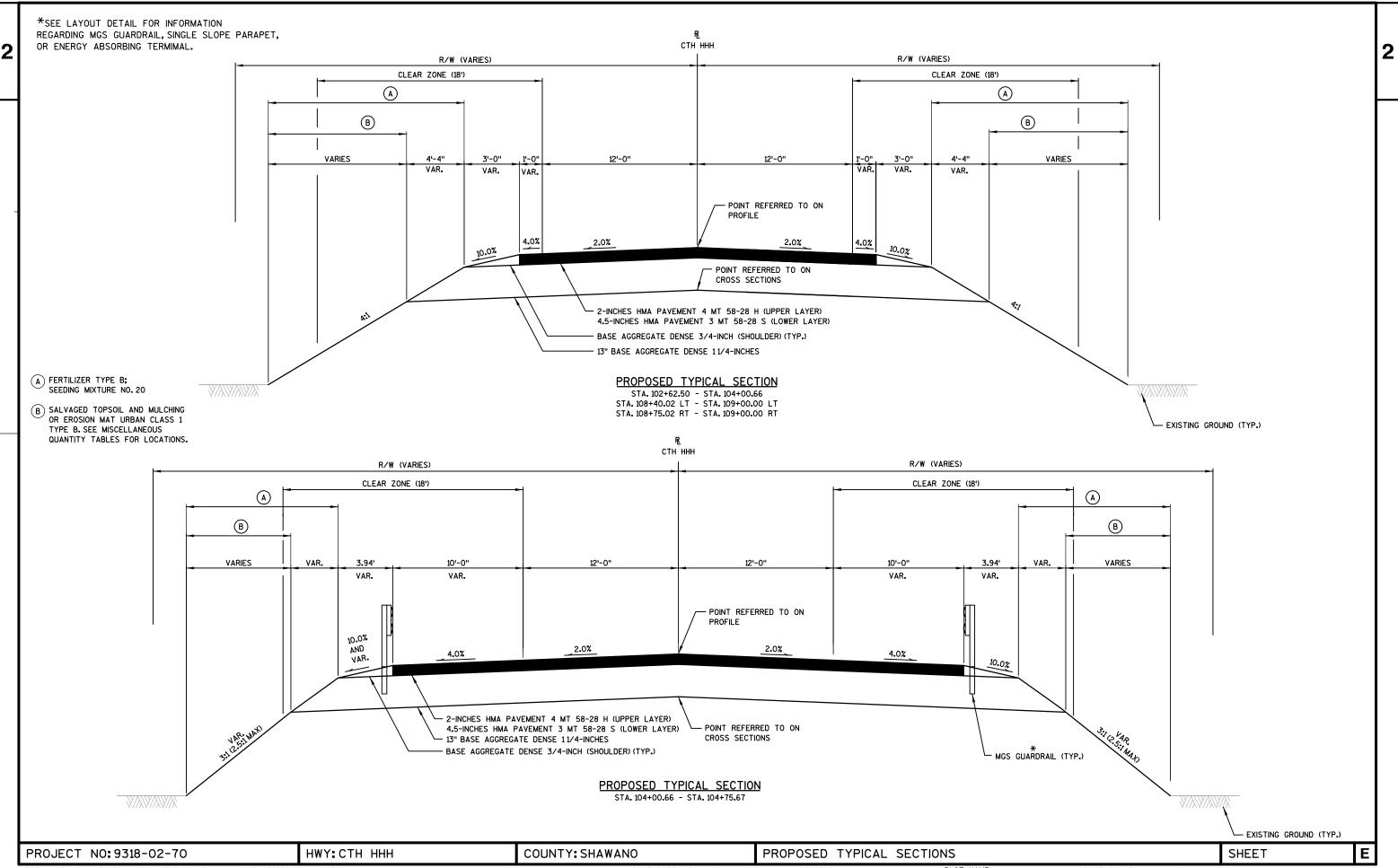
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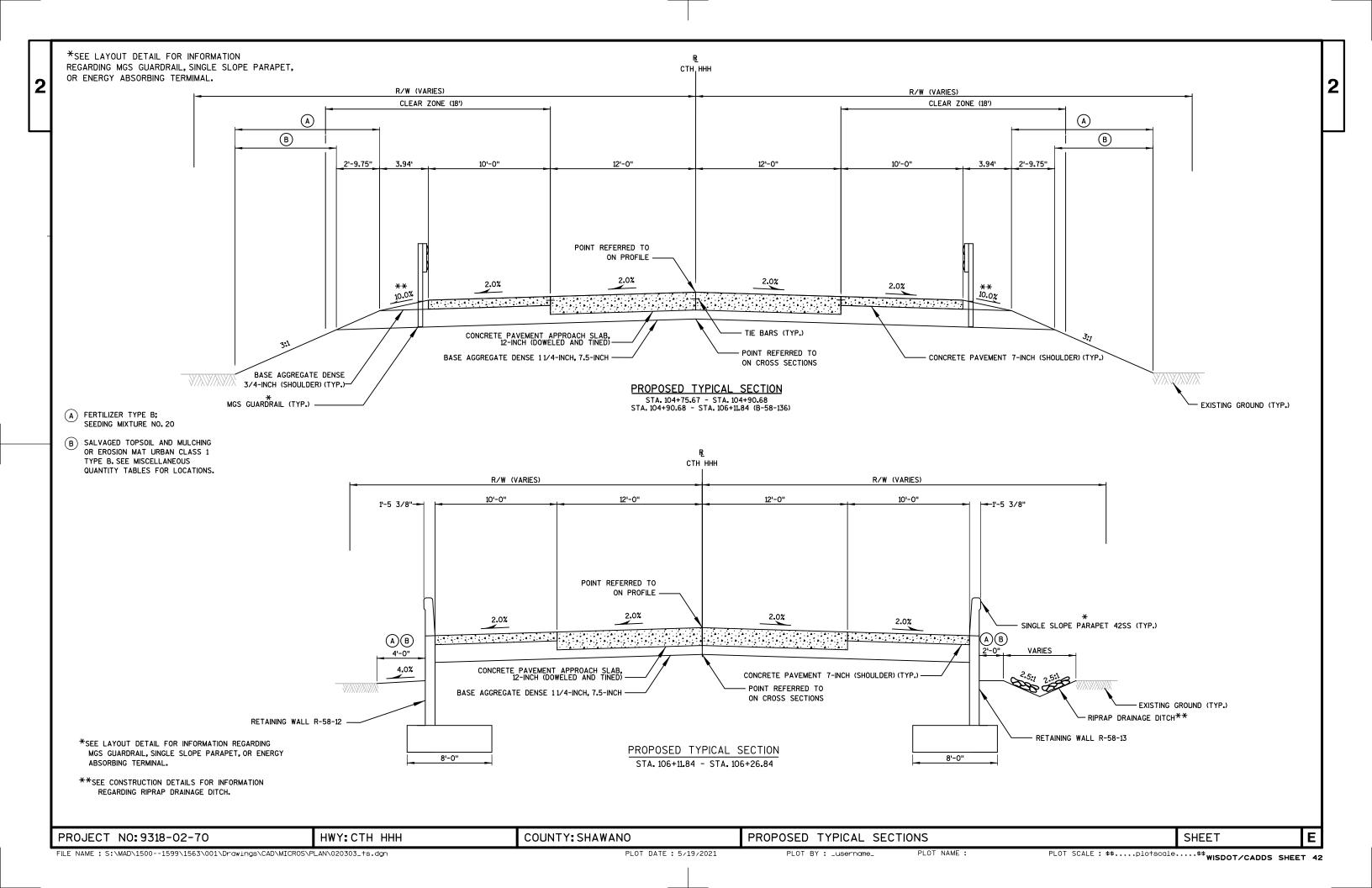
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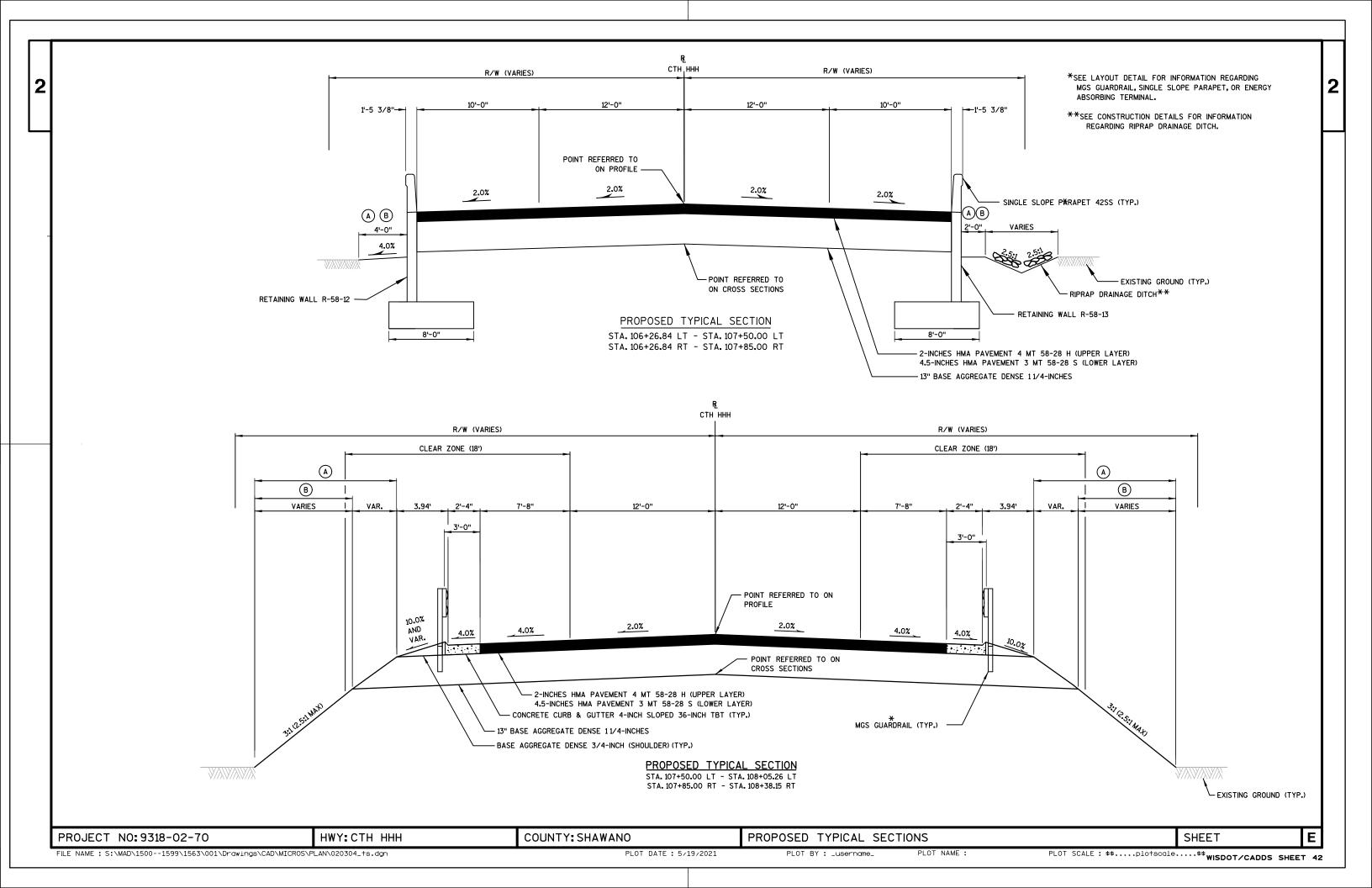
PLOT DATE : 5/19/2021

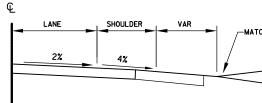
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PLOT NAME :

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







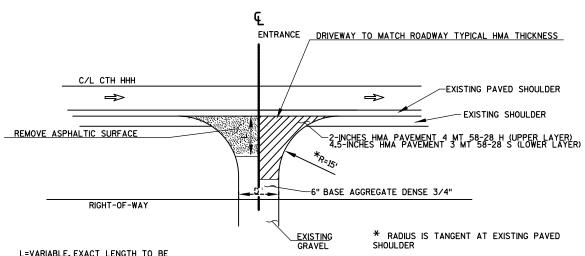
TYPICAL PROFILE VIEW

### RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
	A B						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
ROW CROPS	.08	.16	.22	.12	.20	.27 .44	.15	.24	.33	.19	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												I
ASPHALT						.7095						
CONCRETE						.8095						
BRICK	.7080											
DRIVES, WALKS	S .7585											
ROOFS	R00FS .7595											
GRAVEL ROADS,	SHOULD	ERS				.4060						

TOTAL PROJECT AREA = 1.33 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.98 ACRES



L=VARIABLE, EXACT LENGTH TO BE DETERMINED IN THE FIELD BY THE ENGINEER D=DRIVEWAY WIDTH, MATCH EXISTING

PLAN VIEW

RURAL CE DRIVEWAY INTERSECTION AT STA. 109+00 RT

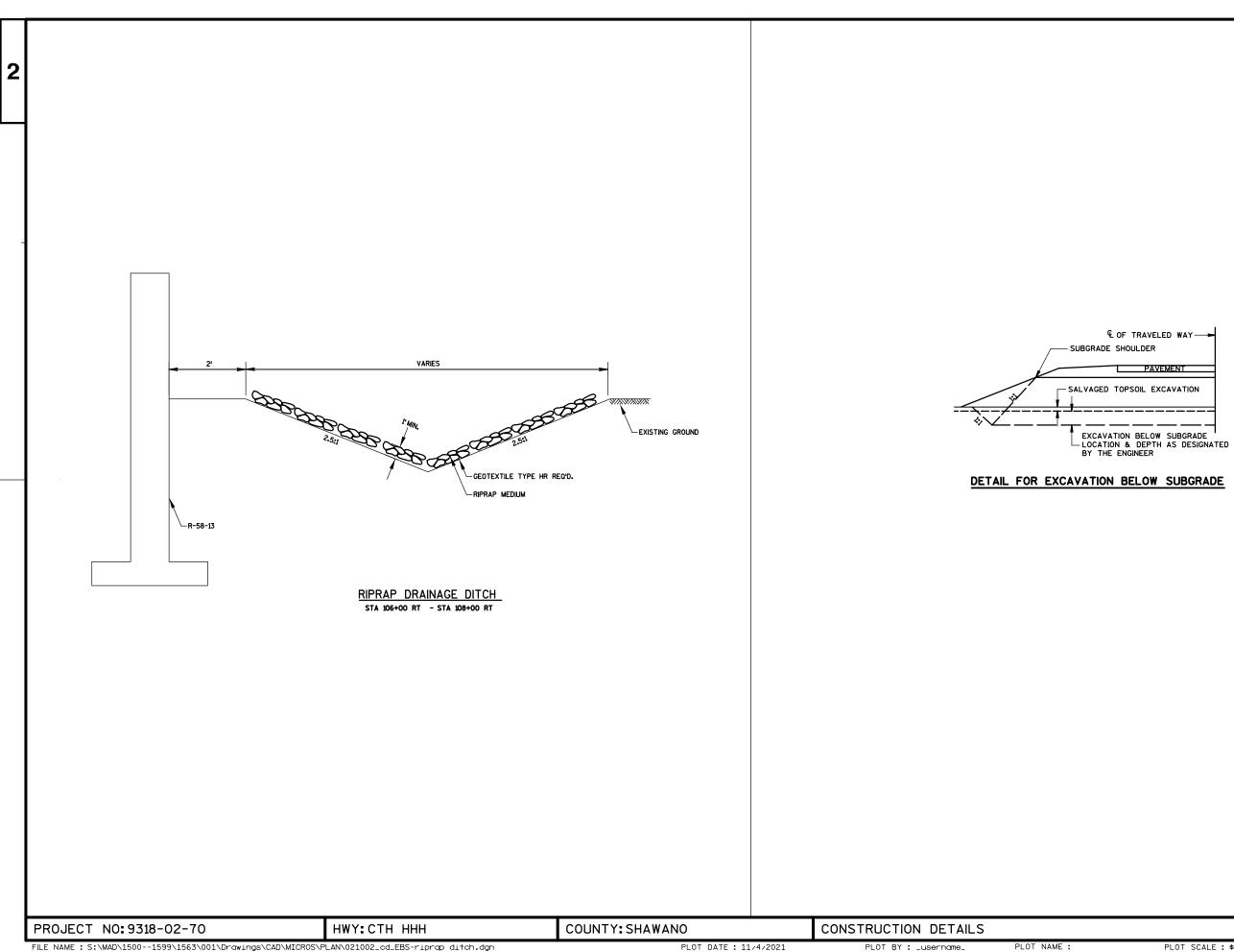
PROJECT NO:9318-02-70	Н₩Ү:СТН ННН	COUNTY: SHAWANO	CONSTRUCTION DETAILS	
FILE NAME : S:\MAD\15001599\1563\001\Drawings\CAD\MICROS\F	LAN\021001_cd_driveway-runoff coeff.dgn	PLOT DATE : 11/4/2021	PLOT BY : _username_	PLOT NAME :

-MATCH EXISTING

VAR VAR

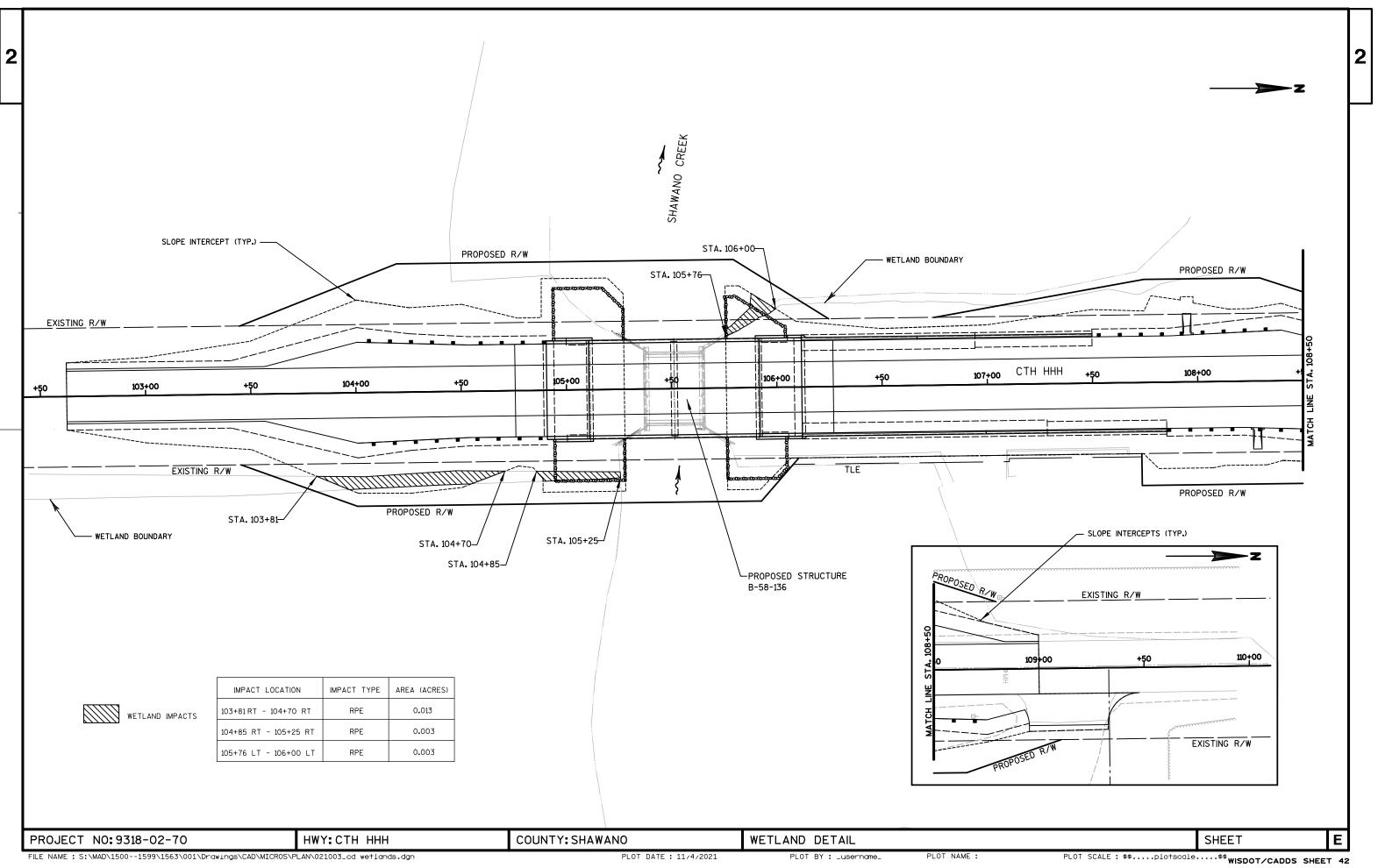
SHEET

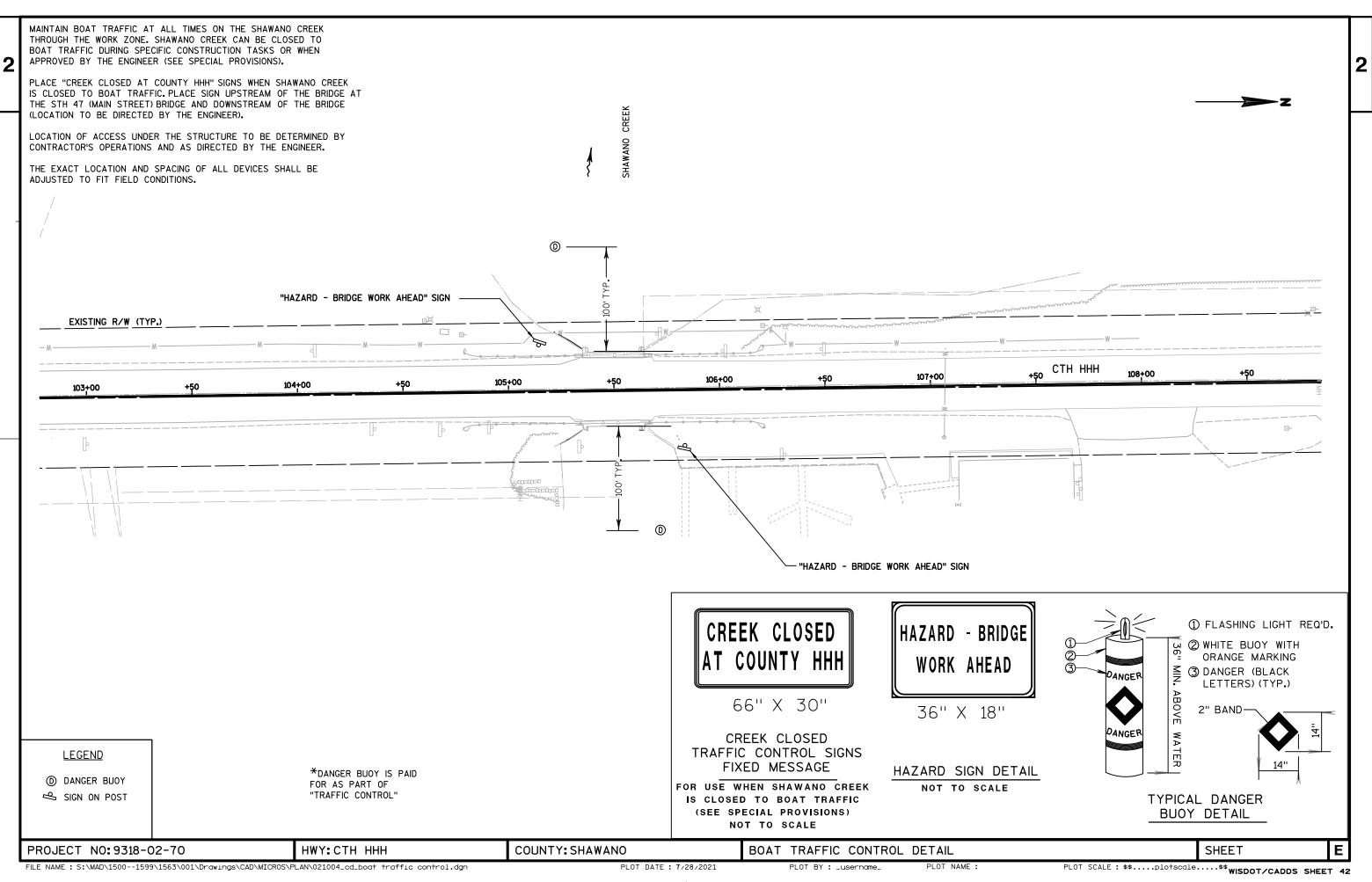
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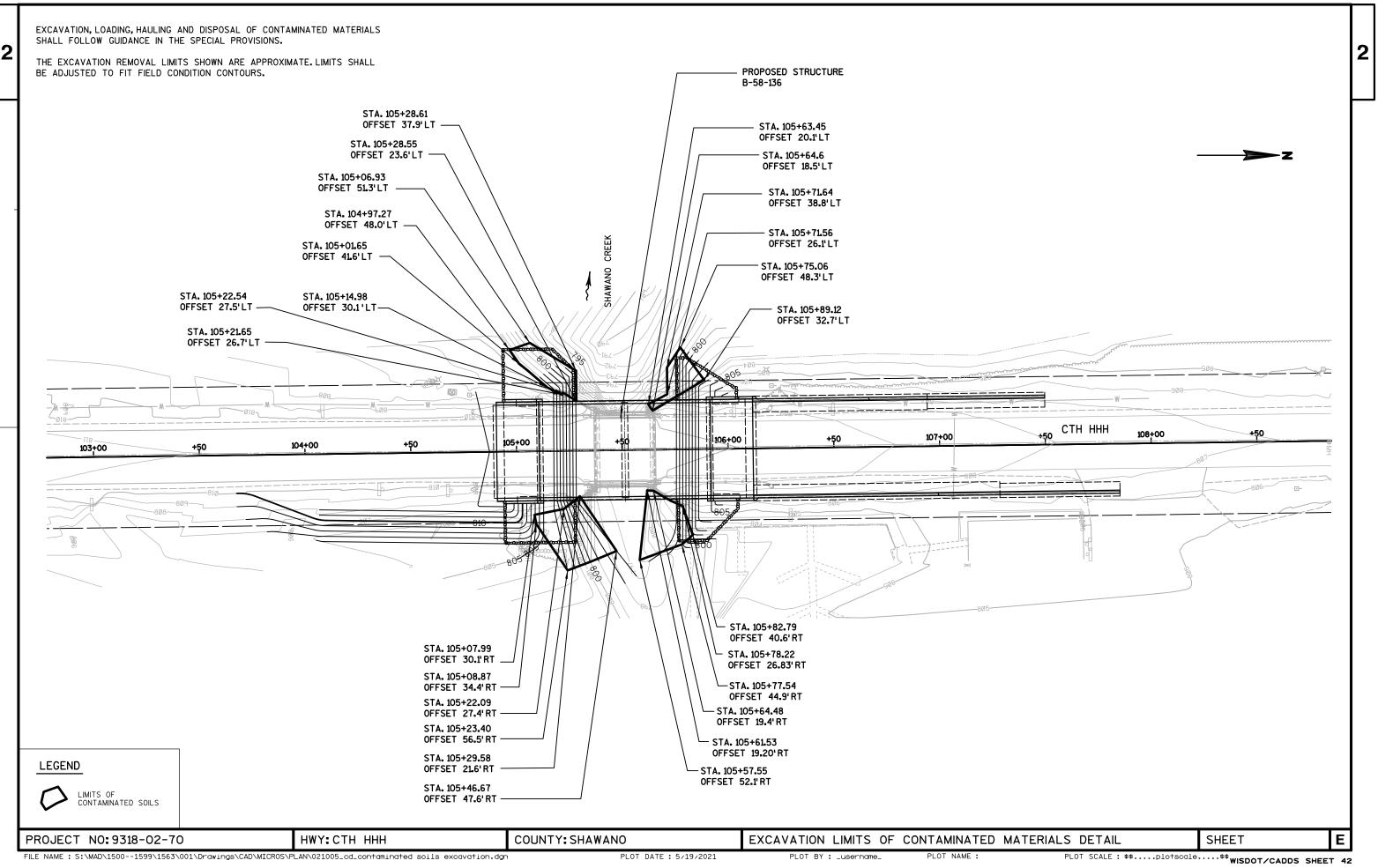


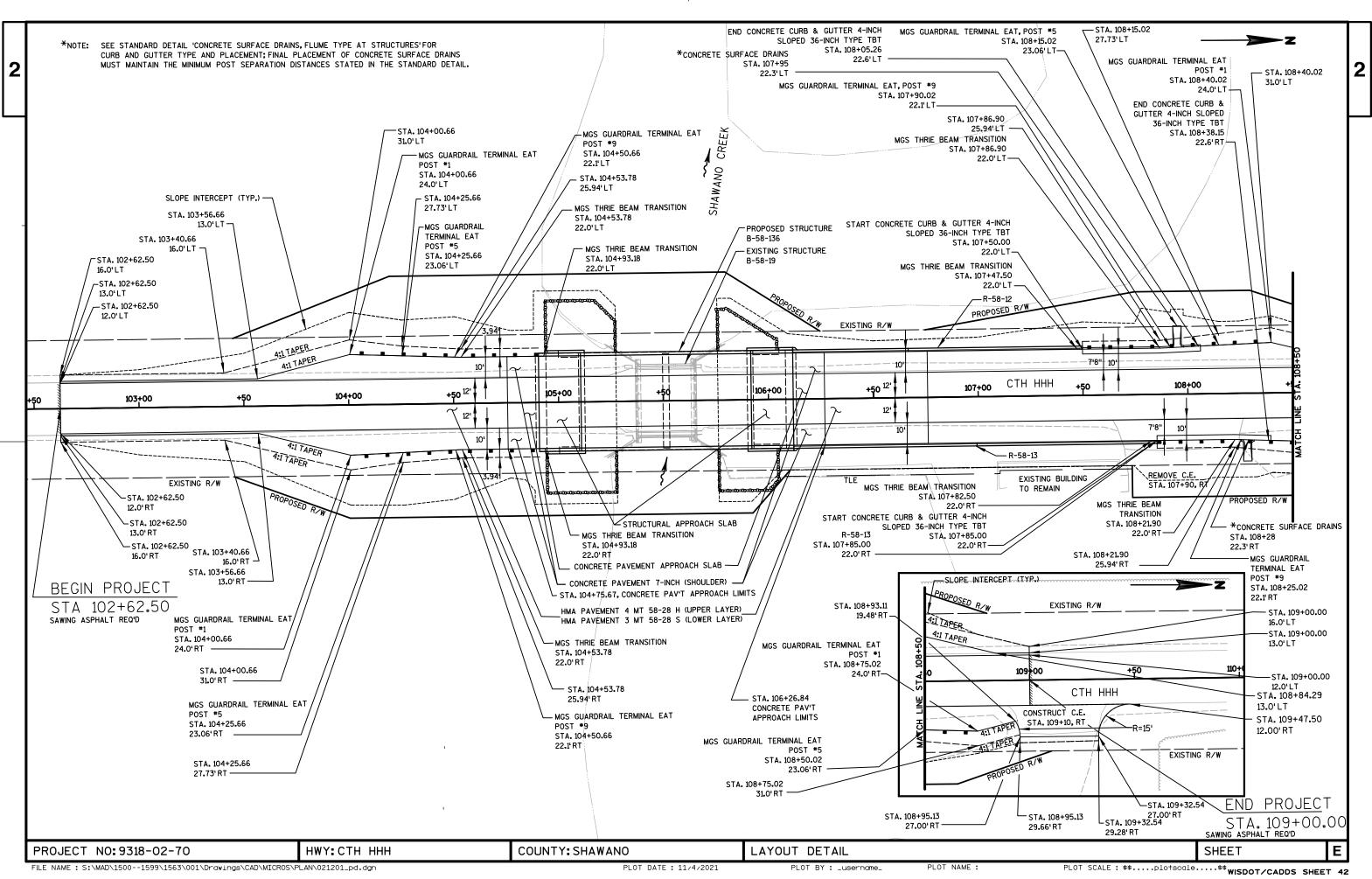
### SHEET

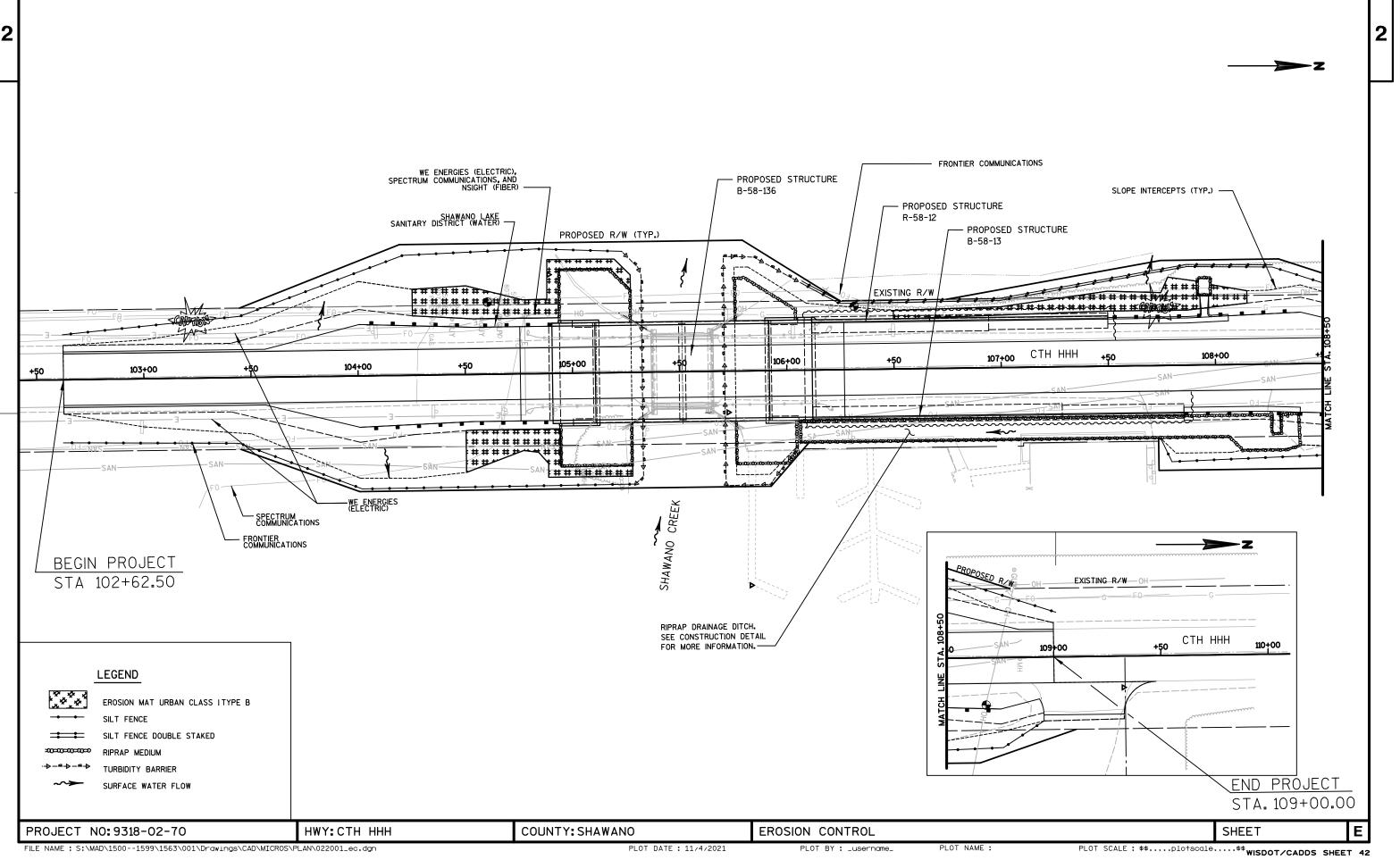
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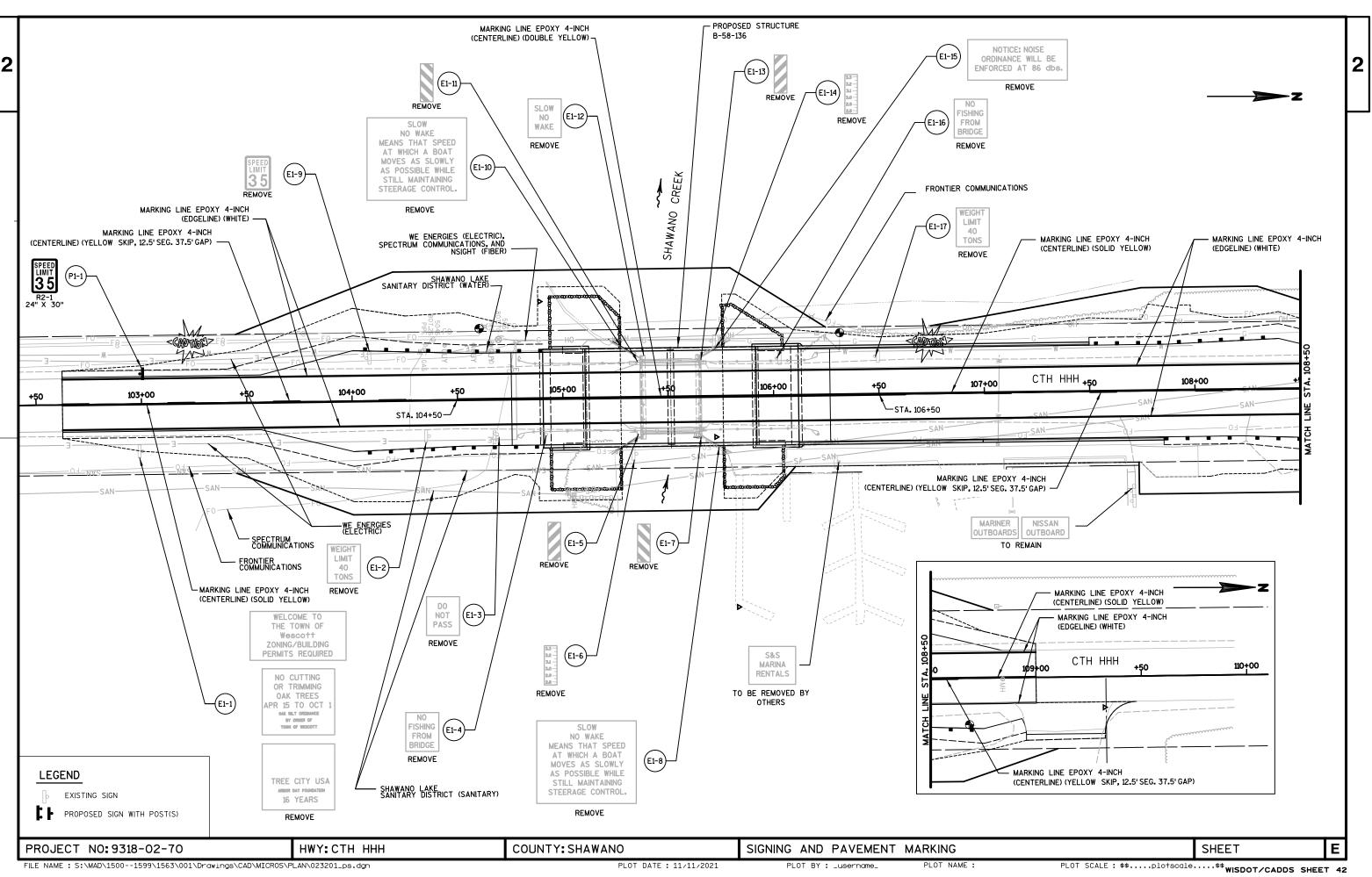












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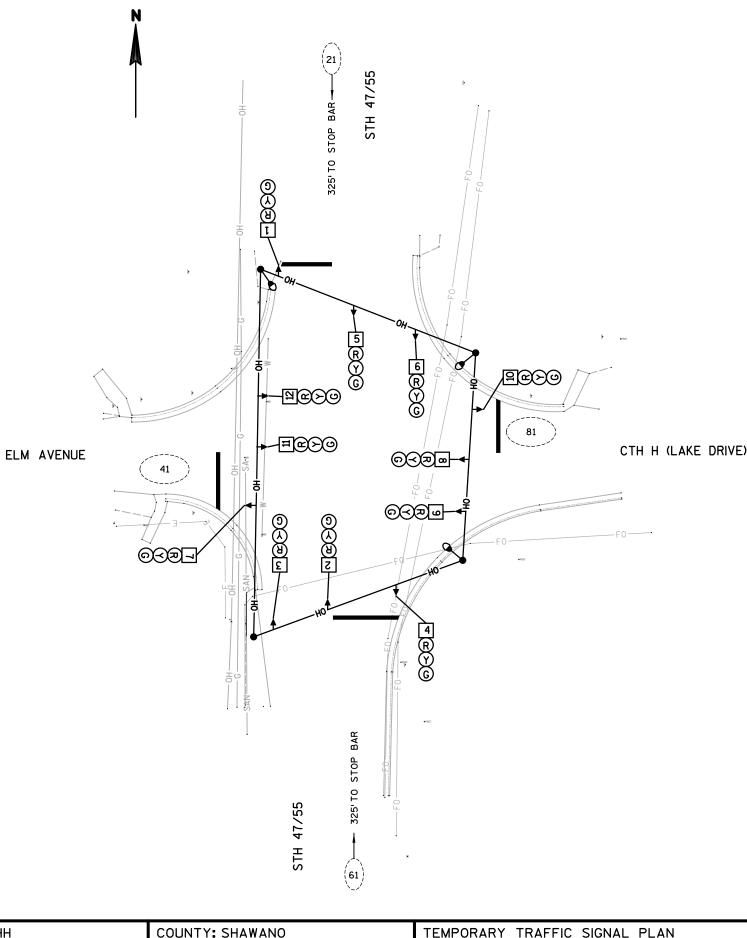
PLOT DATE : 11/11/2021

### CONSTRUCTION NOTES:

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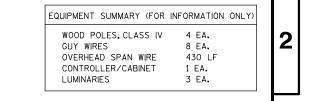
- 1. FINAL LOCATION OF SIGNAL POLES, SPAN WIRE, CONTROLLER AND HEADS SHALL BE APPROVED BY THE ENGINEER.
- 2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
- 3. THE LOCATION OF EXISTING AND PROPOSED UTILITIES ARE APPROXIMATE. THERE MAY BE OTHER EXISTING UTILITIES AND PROPOSED UTILITY INSTALLATIONS WITHIN THE PROJECT THAT ARE NOT SHOWN.
- 4. ALL TEMPORARY TRAFFIC SIGNAL INSTALLATIONS, MATERIALS, AND OPERATIONS SHALL BE IN ACCORDANCE WITH STANDARD DESIGN DETAILS FOR "SPAN WIRE TEMPOARARY TRAFFIC SIGNAL".
- PROVIDE TEMPORARY VEHICLE DETECTION SYSTEM (VIDEO OR MICROWAVE) 5. WHICH WILL DETECT TRAFFIC AT THE TEMPORARY STOP BAR AND OTHER LOCATIONS AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER. PROVIDE ADDITIONAL POLES AS NEEDED TO ALLOW FOR PROPER LOCATION OF VEHICLE DETECTION, INDIVIDUAL VEHICLE DETECTION ZONE LOCATIONS SHALL BE ADJUSTED TO REFLECT ACTUAL FIELD CONDITIONS.
- 6. PROVIDE LUMINAIRES FOR THE TEMPORARY TRAFFIC SIGNAL AS INIDCATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
- 7. PROVIDE TEMPORARY 18-INCH STOP BAR FOR ALL APPROACHES. FINAL LOCATION SHALL BE APPROVED BY ENGINEER. EXISTING CTH H AND ELM AVENUE STOP SIGNS SHALL BE COVERED AND STOP BARS SHALL BE REMOVED DURING TEMPORARY SIGNAL OPERATIONS.
- 8. UPON COMPLETION OF PROJECT AND TURN OFF OF TEMPORARY TRAFFIC SIGNAL, FULLY REMOVE TEMPORARY STOP BARS AND REESTABLISH STOP CONTROL ON CTH H AND ELM AVENUE.
- 9. ONE WEEK PRIOR TO TURN ON OF TEMPORARY TRAFFIC SIGNAL PROVIDE PCMS BOARDS FOR ALL FOUR APPROACHES TO NOTIFY OF THE CONTROL CHANGE AT THE INTERSECTION. THE LOCATION AND MESSAGE ON THE PCMS BOARDS SHALL BE APPROVED BY THE ENGINEER. LEAVE THE PCMS BOARDS IN OPERATION FOR TWO WEEKS AFTER THE TEMPORARY TRAFFIC SIGANL HAS BEEN TURNED ON FOR THE EAST AND WEST APPROACHES TO THE INTERSECTION. LEAVE THE PCMS BOARDS IN OPERATION FOR THE DURATION OF THE TEMPORARY TRAFFIC SIGNAL ON THE STH 47/55 APPROACHES TO NOTIFY DRIVERS OF THE TEMPORARY TRAFFIC SIGNAL.
- 10. ONE WEEK PRIOR TO SHUT DOWN OF THE TEMPORARY TRAFFIC SIGNAL PROVIDE PCMS BOARDS FOR THE EAST AND WEST APPROACHES, ALL FOUR APPROACHES TO NOTIFY OF THE RESUMPTION OF TWO WAY STOP CONTROL. LEAVE THE PCMS BOARDS IN OPERATION ON ALL FOUR APPROACHES FOR TWO WEEKS PAST THE SHUT DOWN OF THE TEMPORARY SIGNAL.

	LEGEND		
он∙	OVERHEAD SPAN WIRE		
→	TEMPORARY SIGNAL HEAD		
•	CLASS 4 WOOD POLE		
<b>—</b> •	LUMINAIRE		
8	SIGNAL HEAD NUMBER		
R	RED CIRCULAR INDICATOR		
$\odot$	YELLOW CIRCULAR INDICATOR		
G	GREEN CIRCULAR INDICATOR		
(1)	APPROXIMATE VEHICLE DETECTION ZONE		
PROJECT N	0:9318-02-70	HWY:CTH	ННН

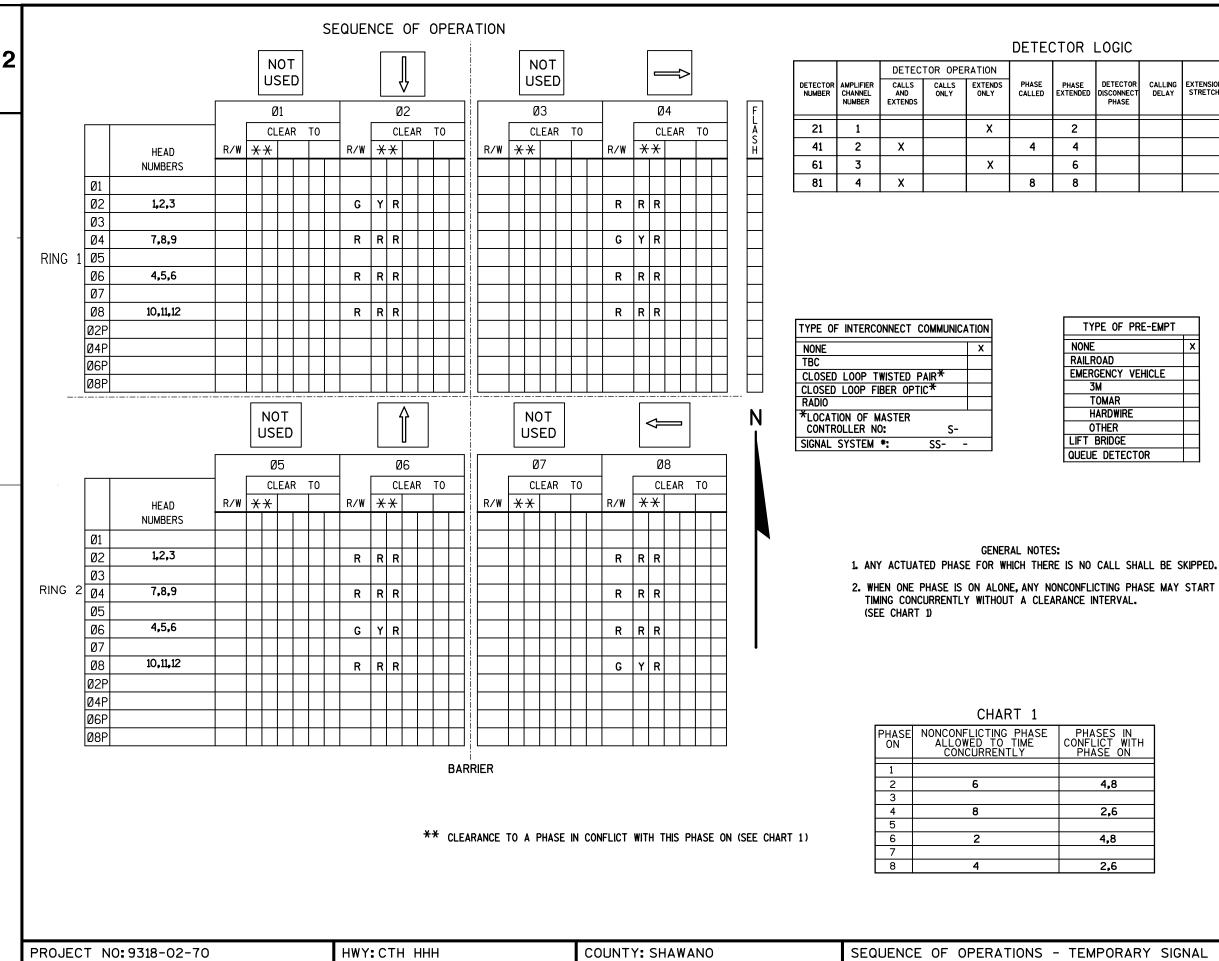


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PLOT NAME :



CONFIGURATION WITH HEAD NUMBERS 3-V R Y G 1-12 TRAFFIC CONTROL SIGNAL STH 47/55 AND CTH H SHAWANO COUNTY SIGNAL NO. TEMP CONTROLLER TYPE: TEMP DATE 04/09/2021 PAGE NO.1 OF 2 Ε SHEET PLOT SCALE : \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



FILE NAME : S:\MAD\1500--1599\1563\001\Drawings\CAD\MICROS\PLAN\024015\_cr.dgn PLOT DATE : 5/19/2021 PLOT BY : \_username\_ PLOT NAME :

# CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY ₩ ⁄ Ø	PHASE RECALL	PHASE ACTIVE
1				
2	Х	6	MIN.	Х
3				
4		8		х
5				
6	х	2	MIN.	х
7				
8		4		Х

LING .AY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
			VIDEO

### OVERLAPS

0.L. "A" = 0.L. "B" =	NONE
0.L. "C" =	NUNE
0.L. "D" =	

	Х	
LE		

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	Х
IN SEPARATE DOT LIGHTING CABINET	

	TRAFFIC CONTROL SIGNAL	
	STH 47/55 AND CTH H	
	SHAWANO COUNTY	
	SIGNAL NO. TEMP	
	CONTROLLER TYPE: TEMP	
	DATE 04/09/2021 PAGE NO. 2 OF	2
NAL	SHEET	Ε
PLOT SCALE	: \$\$plotscale\$\$ WISDOT/CADDS SHEET	42

### GENERAL NOTES

DETOUR ROUTE MARKER SIGNING TO BE INSTALLED AND MAINTAINED BY CONTRACTOR.

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

REMOVE OR COVER ANY SIGN, TEMPORARY OR EXISTING, WHICH CONFLICTS WITH TRAFFIC CONTROL "IN USE", OR AS APPROVED BY THE ENGINEER.

"WO" AND "W" SIGNS SHALL BE 48"×48" UNLESS OTHERWISE NOTED.

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

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

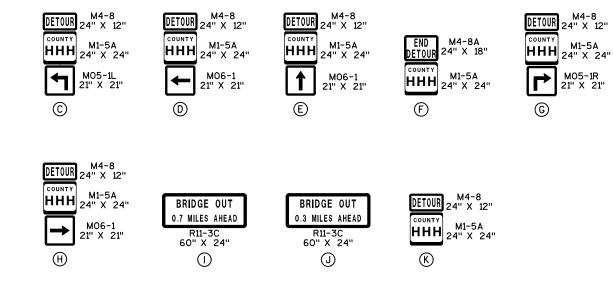
TRAFFIC CONTROL SIGNS PORTABLE CHANGEABLE MESSAGE FOR PREWARNING TO BE INSTALLED ONE WEEK PRIOR TO IMPLEMENTATION OF DETOUR ROUTE.

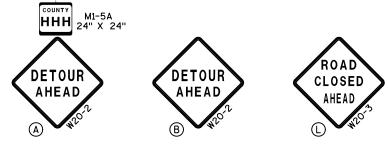
IMMEDIATELY RE-ESTABLISH "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION.

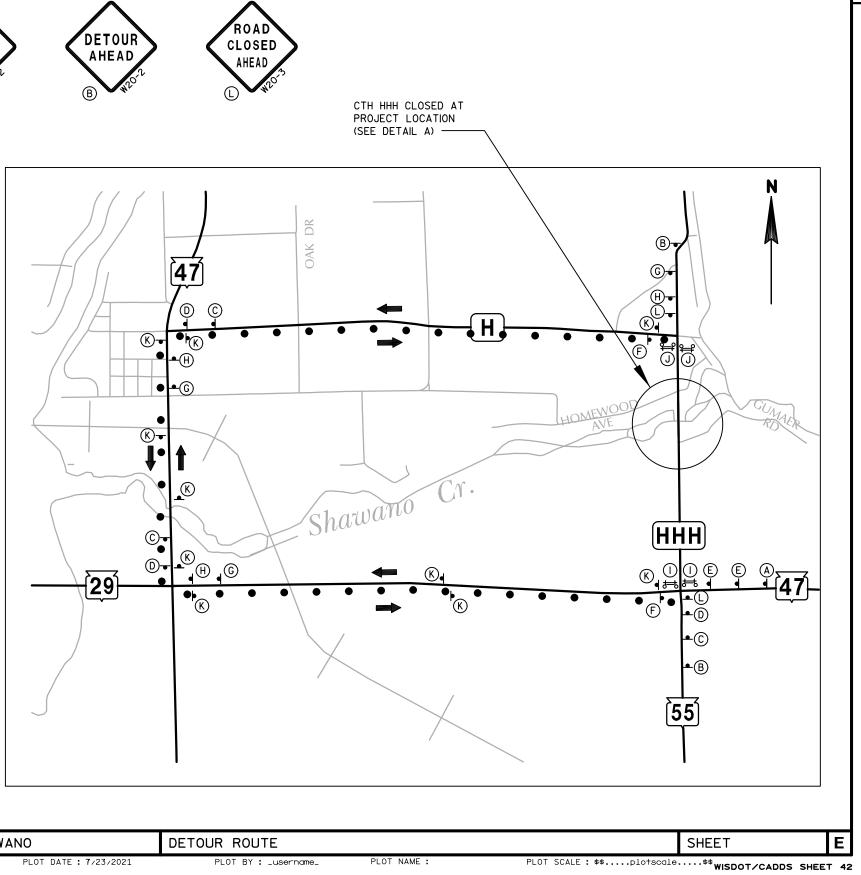
SEE S.D.D. "DETOUR SIGNING FOR MAINLINE CLOSURES", "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

### LEGEND

- DETOUR ROUTE • •
- Ĵ TYPE III BARRICADE WITH ATTACHED SIGN TYPE 2 (TWO WARNING LIGHTS TYPE A REQ'D)
- TRAFFIC CONTROL SIGN ON POST

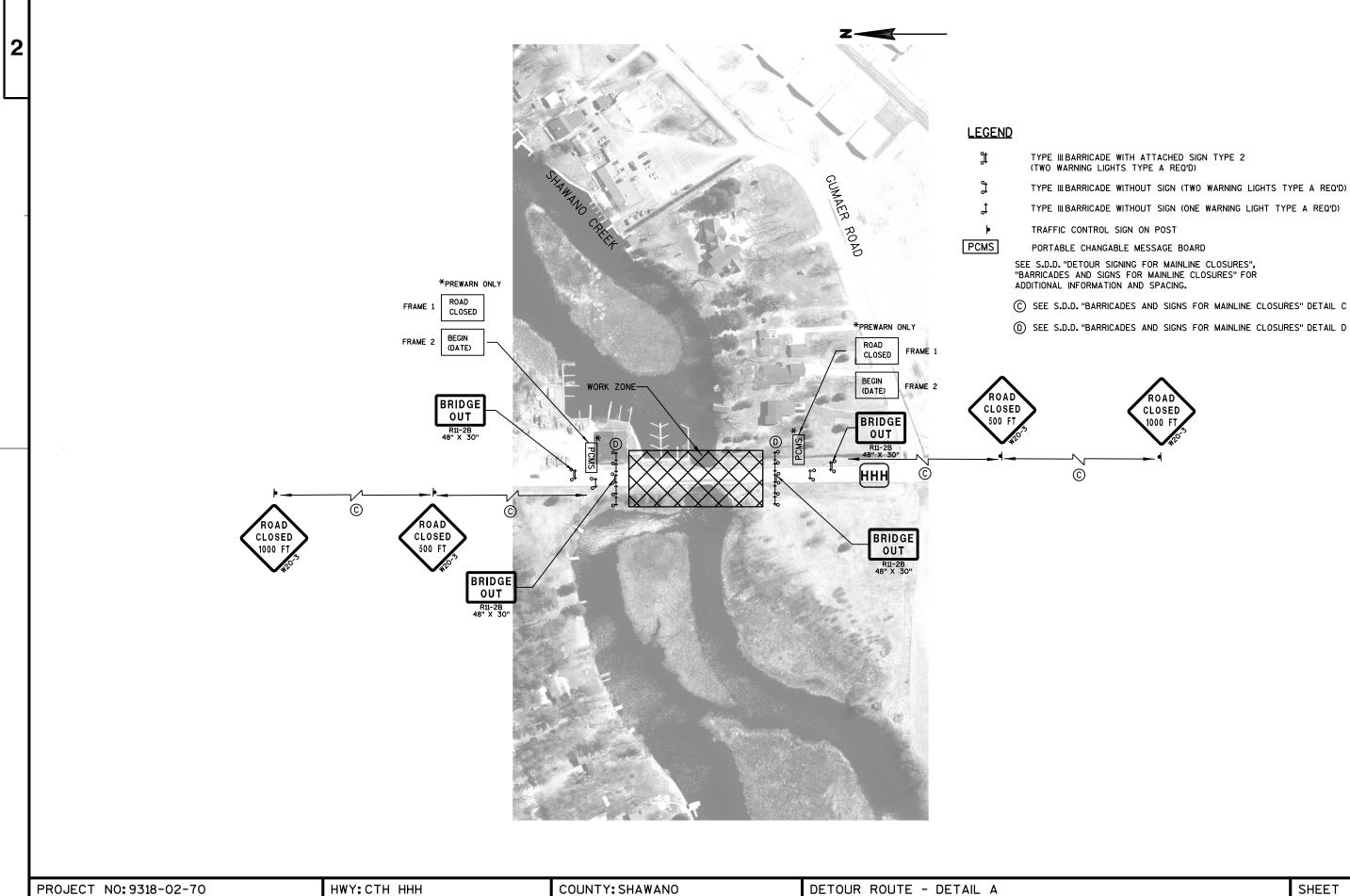






PROJECT NO: 9318-02-70	HWY:CTH HHH	COUNTY: SHAWANO	DETOUR ROUTE	
FILE NAME : S:\MAD\15001599\1563\001\Drawings\CAD\MICROS\F	PLAN\027001_dt.dgn	PLOT DATE : 7/23/2021	PLOT BY : _username_	PLOT NAME :

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PLOT BY : \_username\_

PLOT NAME :

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(TWO WARNING LIGHTS TYPE A REQ'D) TYPE III BARRICADE WITHOUT SIGN (TWO WARNING LIGHTS TYPE A REQ'D) TYPE III BARRICADE WITHOUT SIGN (ONE WARNING LIGHT TYPE A REQ'D) PORTABLE CHANGABLE MESSAGE BOARD SEE S.D.D. "DETOUR SIGNING FOR MAINLINE CLOSURES", "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" FOR © SEE S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL C



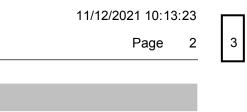
### SHEET

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					9318-02-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	1.000	1.000	
0004	201.0205	Grubbing	STA	1.000	1.000	
0006	203.0211.S	Abatement of Asbestos Containing Material (structure) 01. B-58-19	EACH	1.000	1.000	
8000	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. B-58-19	EACH	1.000	1.000	
0010	204.0165	Removing Guardrail	LF	260.000	260.000	
0012	204.9060.S	Removing (item description) 02. Wood Post	EACH	2.000	2.000	
0014	205.0100	Excavation Common	CY	628.000	628.000	
0016	206.1000	Excavation for Structures Bridges (structure) 01. B-58-136	LS	1.000	1.000	
0018	206.3000	Excavation for Structures Retaining Walls (structure) 01. R-58-12	LS	1.000	1.000	
0020	206.3000	Excavation for Structures Retaining Walls (structure) 02. R-58-13	LS	1.000	1.000	
0022	206.5000	Cofferdams (structure) 01. R-58-12	LS	1.000	1.000	
0024	206.5000	Cofferdams (structure) 02. R-58-13	LS	1.000	1.000	
0026	210.1500	Backfill Structure Type A	TON	1,942.000	1,942.000	
0028	213.0100	Finishing Roadway (project) 01. 9318-02-70	EACH	1.000	1.000	
0030	305.0110	Base Aggregate Dense 3/4-Inch	TON	138.000	138.000	
0032	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,180.000	2,180.000	
0034	311.0110	Breaker Run	TON	173.000	173.000	
0036	312.0110	Select Crushed Material	TON	71.000	71.000	
0038	415.0070	Concrete Pavement 7-Inch	SY	66.000	66.000	
0040	415.0410	Concrete Pavement Approach Slab	SY	80.000	80.000	
0042	416.1010	Concrete Surface Drains	CY	1.500	1.500	
0044	450.4000	HMA Cold Weather Paving	TON	133.000	133.000	
0046	455.0605	Tack Coat	GAL	106.000	106.000	
0048	460.2000	Incentive Density HMA Pavement	DOL	520.000	520.000	
0050	460.6223	HMA Pavement 3 MT 58-28 S	TON	548.000	548.000	
0052	460.6424	HMA Pavement 4 MT 58-28 H	TON	246.000	246.000	
0054	502.0100	Concrete Masonry Bridges	CY	549.000	549.000	
0056	502.3200	Protective Surface Treatment	SY	617.000	617.000	
0058	502.3210	Pigmented Surface Sealer	SY	275.000	275.000	
0060	504.0500	Concrete Masonry Retaining Walls	CY	337.000	337.000	
0062	505.0400	Bar Steel Reinforcement HS Structures	LB	21,640.000	21,640.000	
0064	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	102,490.000	102,490.000	
0066	505.0800.S	Bar Steel Reinforcement HS Stainless Structures	LB	440.000	440.000	
0068	516.0500	Rubberized Membrane Waterproofing	SY	41.000	41.000	
0070	550.2146	Piling CIP Concrete 14 X 0.375-Inch	LF	1,480.000	1,480.000	
0072	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	110.000	110.000	
0074	606.0200	Riprap Medium	CY	92.000	92.000	
0076	606.0300	Riprap Heavy	CY	355.000	355.000	
0078	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	530.000	530.000	
0080	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000	
0082	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600	
0084	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000	
0086	618.0100	Maintenance And Repair of Haul Roads (project) 01. 9318-02-70	EACH	1.000	1.000	
0088	619.1000	Mobilization	EACH	1.000	1.000	
0090	624.0100	Water	MGAL	35.000	35.000	
0092	625.0500	Salvaged Topsoil	SY	690.000	690.000	
	627.0200	Mulching	SY	1,610.000	1,610.000	
0094		-				
0094 0096	628.1504	Silt Fence	LF	935.000	935.000	

# 11/12/2021 10:13:23 3 Page 1

			E	Estimate Of C	uantities	
					9318-02-70	
Line	Item	Item Description	Unit	Total	Qty	
0100	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000	
0102	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0104	628.2008	Erosion Mat Urban Class I Type B	SY	415.000	415.000	
0106	628.6005	Turbidity Barriers	SY	260.000	260.000	
0108	628.7560	Tracking Pads	EACH	3.000	3.000	
0110	629.0210	Fertilizer Type B	CWT	1.000	1.000	
0112	630.0120	Seeding Mixture No. 20	LB	15.000	15.000	
0114	630.0160	Seeding Mixture No. 60	LB	3.000	3.000	
0116	630.0300	Seeding Borrow Pit	LB	31.000	31.000	
0118	630.0500	Seed Water	MGAL	41.000	41.000	
0120	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	1.000	1.000	
0122	637.2210	Signs Type II Reflective H	SF	5.000	5.000	
0124	638.2602	Removing Signs Type II	EACH	19.000	19.000	
0126	638.3000	Removing Small Sign Supports	EACH	13.000	13.000	
0128	642.5201	Field Office Type C	EACH	1.000	1.000	
0130	643.0420	Traffic Control Barricades Type III	DAY	1,944.000	1,944.000	
0132	643.0705	Traffic Control Warning Lights Type A	DAY	3,024.000	3,024.000	
0134	643.0900	Traffic Control Signs	DAY	9,072.000	9,072.000	
0136	643.1000	Traffic Control Signs Fixed Message	SF	13.750	13.750	
0138	643.1050	Traffic Control Signs PCMS	DAY	356.000	356.000	
0140	643.5000	Traffic Control	EACH	1.000	1.000	
0142	645.0111	Geotextile Type DF Schedule A	SY	108.000	108.000	
0144	645.0120	Geotextile Type HR	SY	888.000	888.000	
0146	645.0140	Geotextile Type SAS	SY	385.000	385.000	
0148	646.1020	Marking Line Epoxy 4-Inch	LF	2,225.000	2,225.000	
0150	646.9200	Marking Removal Line Wide	LF	96.000	96.000	
0152	649.0805	Temporary Marking Stop Line Paint 18-Inch	LF	96.000	96.000	
0154	650.4500	Construction Staking Subgrade	LF	520.000	520.000	
0156	650.5000	Construction Staking Base	LF	520.000	520.000	
0158	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	110.000	110.000	
0160	650.6500	Construction Staking Structure Layout (structure) 01. B-58-136	LS	1.000	1.000	
0162	650.6500	Construction Staking Structure Layout (structure) 02. R-58-12	LS	1.000	1.000	
0164	650.6500	Construction Staking Structure Layout (structure) 03. R-58-13	LS	1.000	1.000	
0166	650.7000	Construction Staking Concrete Pavement	LF	30.000	30.000	
0168	650.9910	Construction Staking Supplemental Control (project) 01. 9318-02-70	LS	1.000	1.000	
0170	650.9920	Construction Staking Slope Stakes	LF	520.000	520.000	
0172	661.0200	Temporary Traffic Signals for Intersections (location) 01. STH 47/55 and CTH H	LS	1.000	1.000	
0174	715.0502	Incentive Strength Concrete Structures	DOL	5,316.000	5,316.000	
0176	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000	
0178		Installing and Maintaining Bird Deterrent System (station) 01. 105+50	EACH	1.000	1.000	
0180	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000	
0182	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000	
0184	SPV.0090	Special 01. Silt Fence Double Staked	LF	281.000	281.000	
		•				
0186	SPV.0195	Special 01. Excavation, Loading, Hauling, and Disposal of Contaminated Sediment	TON	360.000	360.000	



CLEARING	AND GRUBBING SUM	MARY	
		201.0105 CLEARING	201.0205 GRUBBING
STATION - STATION	LOCATION	STA	STA
107+00 - 107+90	LT	1	1

TOTALS 1 1

BASE AGGREGATE SUMMARY

	REMOVIN	NG WOOD POS	т			305.0110	305.0120
						BASE AGGREGATE	BASE AGGREGAT
			204.9060.5.02			DENSE 3/4-INCH	DENSE 11/4-INC
CATEGORY	STATION	OFFSET	EACH	CATEGORY	STATION - STATION	TON	TON
0010	106+38	17' RT	1	0010	102+63 - 104+76	65	750
	106+63	17' RT	1		104+76 - 104+91	3	50
					106+12 - 106+27		40
	TOT	ALS	2		106+27 - 109+00	65	1,050
					109+00	5	
					TOTALS	138	1,890

					EARTHWORK				
				205.0100					
					UNUSABLE				
			EXC.	AVATION COMMON (1)	PAVEMENT	STRUCTURE	AVAILABLE	EXPANDED EBS	UNEXPANDED
			CUT (2)	EBS EXCAVATION (3)	MATERIAL	EXCAVATION	MATERIAL (4)	BACKFILL (5)	FILL
								FACTOR	
				5% OF CUT				1.25	
CATEGORY	LOCATION	STATION - STATION	CY	CY	CY	CY	CY	CY	CY
0010	СТН ННН	102+63 - 109+00	598	30	102	3,200	3 <b>,</b> 695	37	464
		ITEM TOTAL		628	_				

1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100.

2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL.

4) AVAILABLE MATERIAL = CUT - UNUSABLE PAVEMENT MATERIAL.

5) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL.EBS BACKFILL EXPANSION FACTOR = 1.25.

6) EXPANDED FILL = (UNEXPANDED FILL)  $\star$  EXPANDED FILL FACTOR. EXPANDED FILL FACTOR = 1.25.

7) MASS ORDINATE: MASS ORDINATE = CUT - UNUSABLE PAVEMENT MATERIAL - EXPANDED FILL

PLUS MASS ORDINATE QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. NEGATIVE MASS ORDINATE QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION. 8) SELECT CRUSHED MATERIAL IS USED FOR BACKFILL OF EBS.

PROJECT NO: 9318-02-70	HWY:CTH HHH	COUNTY: SHAWANO	MISCELLANEOUS QUANTIT	IES
FILE NAME : S:\MAD\15001599\1563\001\Drawings\CAD\MICROS\F	LAN\030201_mg.dgn	PLOT DATE : 11/11/2021	PLOT BY : _username_	PLOT NAME :

CATEGORY

0010

		FINISHING ROAD	WAY	
~	TECODY		213.0100.01	
CA	TEGORY	PROJECT	EACH	
	0010	9318-02-70	1	
ATE ICH				
	REMA	ARKS		
	COMMERC	CAL DWY		
			312.0110 SELECT	
EXPAN		ASS ORDINATE	SELECT CRUSHED	
FILL (	(6)	ASS ORDINATE +/- (7)	SELECT	
FILL (	(6) DR		SELECT CRUSHED	
FILL (	(6) DR		SELECT CRUSHED	
FILL ( FACT( 1.25	26) DR		SELECT CRUSHED MATERIAL (8)	
FILL ( FACTO 1.25 CY	26) DR	+/- (7)	SELECT CRUSHED MATERIAL (8) TON	
FILL ( FACTO 1.25 CY	26) DR	+/- (7)	SELECT CRUSHED MATERIAL (8) TON	
FILL ( FACTO 1.25 CY	26) DR	+/- (7)	SELECT CRUSHED MATERIAL (8) TON	
FILL ( FACTO 1.25 CY	26) DR	+/- (7)	SELECT CRUSHED MATERIAL (8) TON	
FILL ( FACTO 1.25 CY	26) DR	+/- (7)	SELECT CRUSHED MATERIAL (8) TON	
FILL ( FACTO 1.25 CY	26) DR	+/- (7)	SELECT CRUSHED MATERIAL (8) TON	
FILL ( FACTO 1.25 CY	26) DR	+/- (7)	SELECT CRUSHED MATERIAL (8) TON	

	CONCRETE PAVEMEN	7-INCH		C0	NCRETE PAVEMENT APPROACH	SLAB		GUARD	RAIL SUMMARY		
			415.0070			415.0410				614.2500	614.2610
CATEGORY	STATION - STATION	LOCATION	SY	CATEGORY	STATION - STATION	SY				MGS THRIE BEAM	MGS GUARDRAI TERMINAL
0010	104+76 - 104+91	LT/RT	33	0010	104+76 - 104+91	40				TRANSITION	EAT
	106+12 - 106+27	LT/RT	33		106+12 - 106+27	40	CATEGORY	STATION - STATION	LOCATION	LF	EACH
		TOTAL		_	TOTAL		0010	104+01 - 104+54	RT/LT		2
		TOTAL	66		TOTAL	80		104+54 - 104+93	RT/LT	78.8	
								107+48 - 107+87	LT	39.4	
								107+83 - 108+22	RT	39.4	
								107+87 - 108+40	LT		1
								108+22 - 108+75	RT		1
								TOTALS		157.6	4

	F HAUL ROADS	ICE AND REPAIR O	MAINTENAN			MARY	CONCR				
	618.0100.01			650.5500	645.0120	606.0200	601.0588	416.1010			
	EACH	PROJECT	CATEGORY	CONSTRUCTION			CONCRETE				
				STAKING CURB			CURB & GUTTER	CONCRETE SURFACE			
	1	9318-02-70	0050	GUTTER AND	GEOTEXTILE	RIPRAP	4-INCH SLOPED	SURFACE			
				CURB & GUTTER	TYPE HR	MEDIUM	36-INCH TYPE TBT	DRAINS			
				LF	SY	CY	LF	CY	LOCATION	STATION	CATEGORY
				56	5	3	56	0.8	LT	107+95	0010
				54	273	89	54	0.7	RT	108+28	
		_		110	278	92	110	1.5	TOTALS		_
STATION - STA	CATEGORY	ſ									

		ASPHALT ITEN	IS						FIN	ISHING ITEMS					
		450.4000 HMA COLD	455.0605 TACK	460.6223 HMA PAVEMENT	460.6424 HMA PAVEMENT				625.0500	627.0200	629.0210	630.0120 SEEDING	630.0160 SEEDING	630.0300 SEEDING	630.0500
		WEATHER PAVING	COAT	3 MT 58-28 S	4 MT 58-28 H				SALVAGED		FERTILIZER	MIXTURE	MIXTURE	BORROW	SEED
CATEGORY	STATION - STATION	TON	GAL	TON	TON				TOPSOIL	MULCHING	TYPE B	N0.20	NO. 60	PIT	WATER
						CATEGORY	STATION - STATION	LOCATION	SY	SY	CWT	LB	LB	LB	MGAL
0010	102+63 - 104+76	53	42	210	93										
	106+27 - 109+00	80	64	320	145	0010	102+62 - 105+28	LT/RT	440	230	0.1	9	1		8
	109+00			18	8		105+77 - 109+41	LT/RT	250	130	0.1	3	1		4
								WASTE SITE		930	0.6			25	21
_	TOTALS	133	106	548	246			UNDISTRIBUTED		320	0.2	3	1	6	8
TE: HMA PAVE	MENT WEIGHT CALCULATIONS	BASED ON 112 LB/SY/	IN.					TOTALS	690	1,610	1.0	15	3	31	41

PROJECT NO: 9318-02-70	НМА:СТН ННН	COUNTY: SHAWANO	MISCELLANEOUS QUANTITIE	S
FILE NAME : S:\MAD\15001599\1563\001\Drawings\CAD\MICROS\P	_AN\030202_mq.dgn	PLOT DATE : 11/4/2021	PLOT BY : _username_	PLOT NAME :

	MOBILIZATIO	N
		619.1000
CATEGOR	Y PROJECT	EACH
0010	9318-02-70	1

### WATER

0010

STATION - STATION	624.0100 MGAL	REMARKS
96+71 - 103+14	5 30	DUST CONTROL COMPACTION
TOTAL	35	

# SHEET

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			EROSION CC	INTROL					MOBILIZATIONS	EROSION CONTROL	
			628.1504	628 <b>.</b> 1520 SILT	628.2008 EROSION MAT	628.6005	SPV.0090.01 SILT FENCE			628.1905	628.1910 MOBILIZATIONS
			SILT	FENCE	URBAN CLASS I	TURBIDITY	DOUBLE			MOBILIZATIONS	EMERGENCY
			FENCE	MAINTENANCE	TYPE B	BARRIERS	STAKED			EROSION CONTROL	EROSION CONTRO
CATEGORY	STATION - STATION	LOCATION	LF	LF	SY	SY	LF	CATEGORY	PROJECT	EACH	EACH
0010	102+62 - 105+28	LT/RT	535	805	210	88	0			-	_
	105+77 - 109+41	LT/RT	210	315	125	145	225	0010	9318-02-70	5	3
		UNDISTRIBUTED	190	280	80	58	56				
	TOTALS		935	1,400	415	291	281				

S (W E PH 24 YNO CUTTING TY ONS S BRIDGE	SIGN SI SIZE TY (W × H) REFLE IN 24 × 30 5 ×	PO GNS WG PE II 4×6 CTIVE H × 1 SF E/ .00 	DSTS DOD REMO I-INCH SIC I4-FT TYF ACH EA 1 -	.2602 638.30 OVING REMOV GNS SMALL PE II SUPPOI ACH EACI  3 1	ING SIGN RTS H REMARKS	
S (W E PH 24 YNO CUTTING TY SNIDGE BRIDGE	SIZE TY (W × H) REFLE IN 24 × 30 5 ×	GNS WG PE II 4×6 CTIVE H × 1 SF E/ .00 	00D REM INCH SIC I4-FT TYF ACH EA 1	GNS SMALL PE II SUPPOI ACH EACI	SIGN RTS H REMARKS	
S (W E PH 24 YNO CUTTING TY SNIDGE BRIDGE	SIZE TY (W × H) REFLE IN 24 × 30 5 ×	PE II 4×6 CTIVE H × 1 SF E/ .00 	-INCH SIC 14-FT TYF ACH EA 1	GNS SMALL PE II SUPPOI ACH EACI	SIGN RTS H REMARKS	
(W PH 24 NO CUTTING TY SRIDGE	(W × H) REFLE IN 24 × 30 5 ×	CTIVE H × 1 SF E/ .00 	14-FT TYF ACH EA 1	PE II SUPPOI ACH EACI	RTS H REMARKS	
E IPH 24 TY CUTTING ONS S BRIDGE	IN 24 × 30 5 × ×	SF E/ .00 	ACH EA 1	ACH EACI	H REMARKS	
PH         24           YNO         CUTTING            TY             SNS             GRIDGE	24 × 30 5 ×	.00 	1			
NO CUTTING TY S BRIDGE	x		:			
NO CUTTING TY S BRIDGE	x		:			
ONS 5 BRIDGE	x			5 1	NEIVIO V E	
S BRIDGE	x					
BRIDGE				1 1	REMOVE	
	x			1 1	REMOVE	
OWN LEFT				1 1	REMOVE	
	~			1 1 1 1	REMOVE REMOVE	
				1 1 1 1	REMOVE	
				1		
				1 1	REMOVE	
				1 1		
OWN LEFT	x			1 1	REMOVE	
	x			1 1	REMOVE	
NANCE	x			1	REMOVE	
BRIDGE	x			1 1	REMOVE	
ONS	x			1 1	REMOVE	
	5	.00	1 1	19 13		
	DOWN RIGHT - KE - DOWN LEFT - DINANCE - BRIDGE -	DOWN RIGHT         x            KE         x            DOWN LEFT         x            x             DINANCE         x            BRIDGE         x            TONS         x	DOWN RIGHT         x	DOWN RIGHT     ×         KE     ×        DOWN LEFT     ×        ×         DINANCE     ×        BRIDGE     ×        TONS     ×	DOWN RIGHT         x          1         1           KE         x          1            DOWN LEFT         x          1         1           x          1         1         1           DINANCE         x          1         1           BRIDGE         x          1         1           TONS         x          1         1	DOWN RIGHT         x          1         1         REMOVE           KE         x          1          REMOVE           DOWN LEFT         x          1         1         REMOVE           x           1         1         REMOVE           DINANCE         x          1         1         REMOVE           BRIDGE         x          1         1         REMOVE           TONS         x          1         1         REMOVE

			4
FILE NAME : S:\MAD\15001599\1563\001\Drawings\CAD\MICROS\P	'LAN\030203_mq.dgn	PLOT DATE : 7/12/2021	

PLOT NAME :

PLOT BY : \_username\_

CO	N.	ΤF	20	L

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		MARKING	LINE ITEMS					CONSTRUCTION	STAKING			
			646.1020						650.4500	650.5000	650.7000	65
			MARKING LINE									
			EPOXY 4-INCH								CONCRETE	S
		(WHITE)	(YELLOW SKIP)	(YELLOW)	( DOUBLE				SUBGRADE	BASE	PAVEMENT	S
			(12.5' SEG., 37.5' GAP)		YELLOW)	CATEGORY	STATION - STATION	LOCATION	LF	LF	LF	
CATEGORY	STATION - STATION	LF	LF		LF							
						0010	102+63 - 104+76	LT/RT	215	215		
0010	102+63 - 104+50	375	47	190			104+76 - 104+91	LT/RT	15	15	15	
	104+50 - 106+50	400			400		106+12 - 106+27	LT/RT	15	15	15	
	106+50 - 109+00	500	63	250			106+27 - 109+00	LT/RT	275	275		
-												
	TOTAL		2,225				TOTALS		520	520	30	

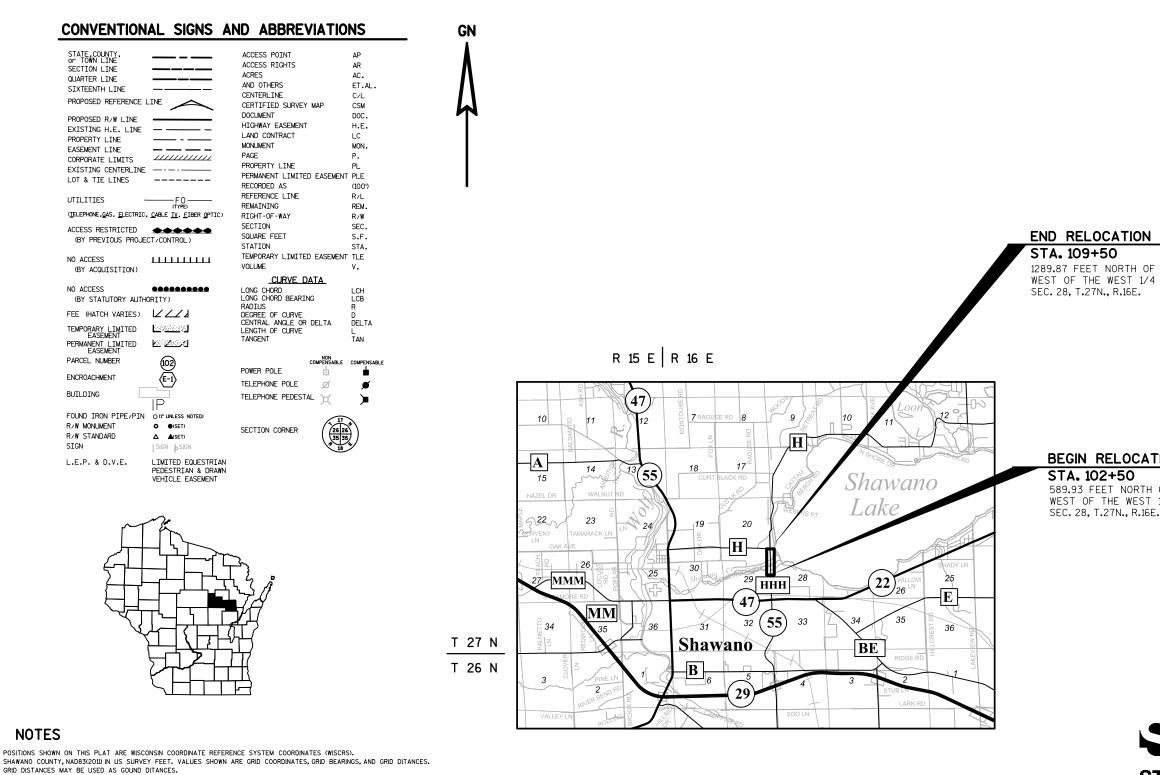
	TE	MPORARY MARKING LIN	NE ITEMS	
		646.9200 MARKING REMOVAL LINE WIDE	649.0805 TEMPORARY MARKING STOP LINE PAINT	
CATEGORY	LOCATION	LF	18-INCH LF	COMMENTS
0010	TEMP.TRAFFIC SIGNAL (INT.STH 47/CTH H)	96	96	ONE 24 LF STOP BAR PER APPROACH LEG
-	TOTALS	96	96	

				TRAFFIC	CONTROL						
			643	.0900	643.0	0420	643.0	705	643.1000	643	.1050
	TRAFFIC CONTROL	DURATION	SI	GNS	BARRICADE	S TYPE III	WARNING LIGH	TS TYPE A	SIGNS FIXED MESSAGE	PC	CMS
CATEGORY	OPERATIONS	(DAYS)	EACH	DAYS	EACH	DAYS	EACH	DAYS	SF	EACH	DAYS
0010	PRE WARNING	7								6	42
	DETOUR AND CLOSURE	108	84	9,072	18	1,944	28	3,024	13.75	2	216
	TEMPORARY TRAFFIC SIGNAL - AFTER TURN ON	14								2	28
	TEMPORARY TRAFFIC SIGNAL - BEFORE TURN OFF	7								2	14
	TEMPORARY TRAFFIC SIGNAL - AFTER TURN OFF	14								4	56
		TOTALS		9,072		1,944		3,024	13.75		356

EXC	AVATION, LOADING, HAULING, AN	D DISPOSAL OF CONTAM	INATED SEDIMENT	E	KCAVATION, HAULING, AND DISPO	SAL OF CREOSOTE CONT	AMINATED SOIL
CATEGORY	STATION - STATION	LOCATION	SPV.0195.01 TON	CATEGORY	STATION - STATION	LOCATION	SPV.0195.02 TON
0010	104+97 - 105+29	LT	75	0010	105+21 - 105+40	LT/RT	55
	105+08 - 105+47	RT	135		105+62 - 105+80	LT/RT	55
	105+58 - 105+83	RT	100				
	105+63 - 105+89	LT	50			TOTAL	110
	-	TOTAL	360				
JECT NO:S	9318-02-70	HWY	:СТН ННН	COUNTY: SHAWA	NO	MISCELLANE	OUS QUANTITIES
ME : S:\MAD\15	001599\1563\001\Drawings	CAD\MICROS\PLAN\030	204_mq.dgn	-	PLOT DATE : 11/11/2021	PLOT BY	:_username_ PLOT NA

			647 5000	
	CATEGORY	PROJECT	643 <b>.</b> 5000 EACH	
	CATEGORI	FROJECT	LACH	-
	0010	9318-02-70	1	
NIC T				
INST	ALLING AND MAI	NTAINING BIRD DETE	RRENT SYSTEM	
INST	ALLING AND MAI	NTAINING BIRD DETEI	RRENT SYSTEM	
	ALLING AND MAI			
CATEGORY	PRO	JECT	999.2000.S EACH	
		JECT	999 <b>.</b> 2000.S	
CATEGORY	PRO	JECT	999.2000.S EACH	
CATEGORY	PRO	JECT	999.2000.S EACH	
CATEGORY	PRO	JECT	999.2000.S EACH	
CATEGORY	PRO	JECT	999.2000.S EACH	
CATEGORY	PRO	JECT	999.2000.S EACH 1	

TRAFFIC CONTROL



RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" X 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJET.

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".

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION. CONTACT THE CITY OF SHAWANO OR THE TOWN OF WESCOTT

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

A TEMPORARY LIMITED EASEMENT (T.L.E.) 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 (T.L.E.'S) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GVEN.

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

DISTANCES SHOWN FROM BUILDINGS TO RIGHT OF WAY LINES ARE APPROXIMATE.

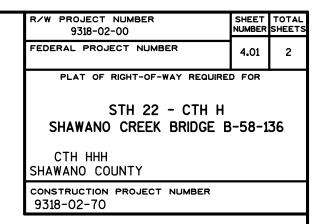
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1 ML.

LAYOUT

TOTAL NET LENGTH OF CENTERLINE = 0.132 MI.

PLOT NAME :



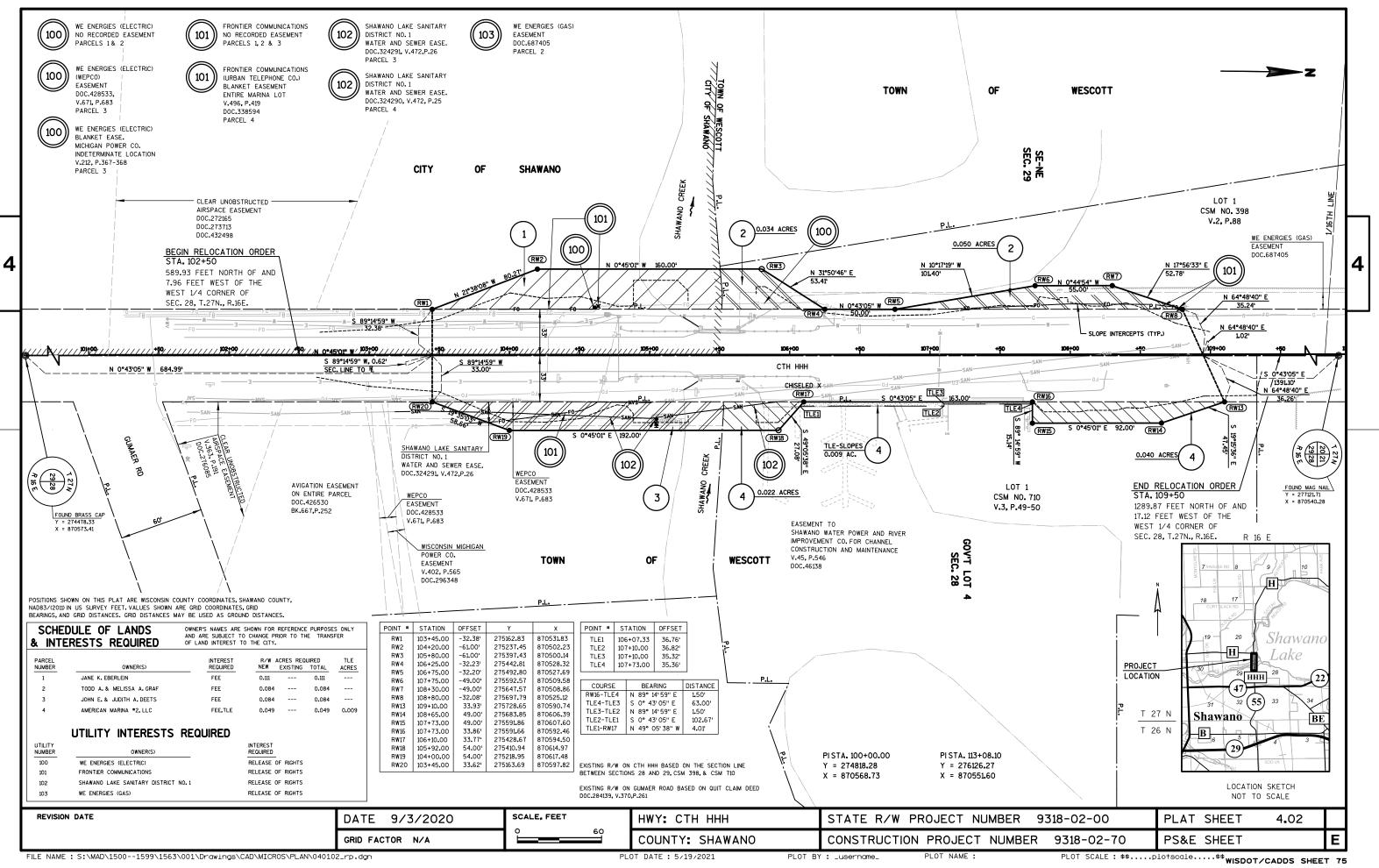
# END RELOCATION ORDER

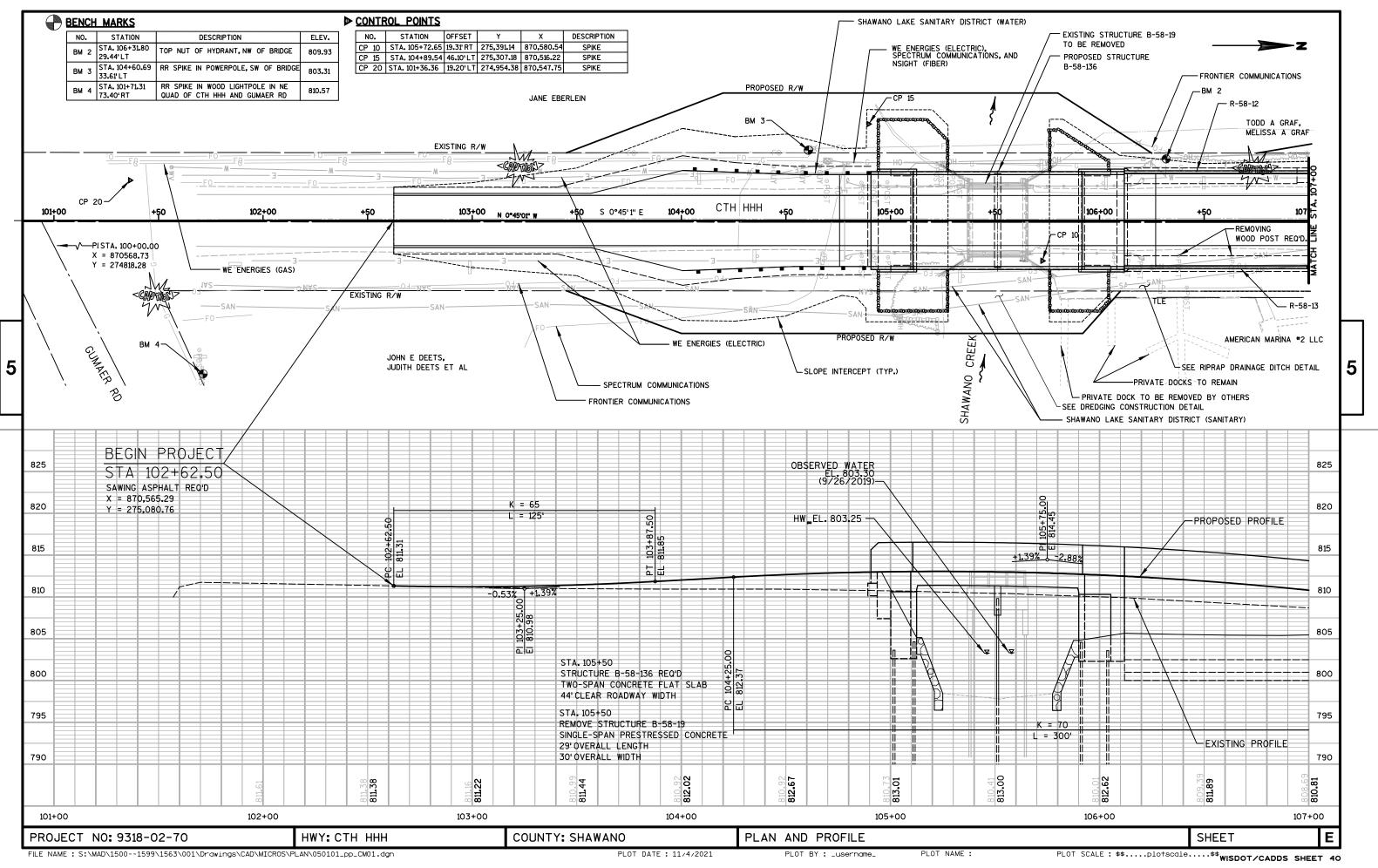
1289.87 FEET NORTH OF AND 17.12 FEET WEST OF THE WEST 1/4 CORNER OF

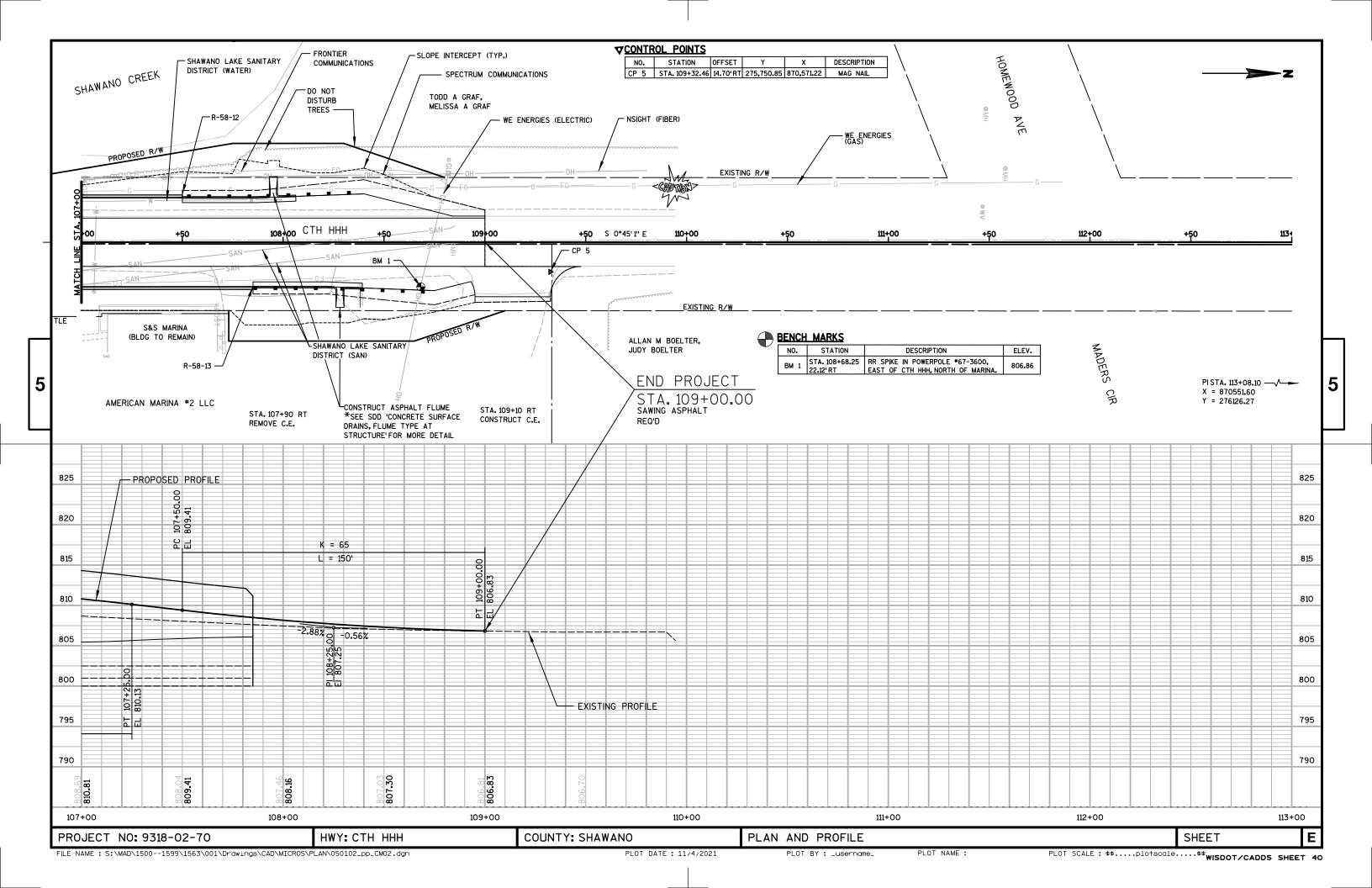
## BEGIN RELOCATION ORDER

589.93 FEET NORTH OF AND 7.96 FEET WEST OF THE WEST 1/4 CORNER OF

	ACCEPTED FOR
	SHAWANO COUNTY
	11-4-21 Aunter Hoff (Date) Aunter Hoff County Engineer (Signature & Title of Official)
	ORIGINAL PLAT PREPARED BY
STRAND STRAND ASSOCIATES <sup>®</sup> MADISON, WISCONSIN 53715 910 WEST WINORA DRIVE MADISON, WISCONSIN 53715	HEATHER S. HEATHER S. BARTELT S-2797 MADISON WI SURVE
REVISION DATE	9/3/20 Healts Barlos
	(Date) (Signature)

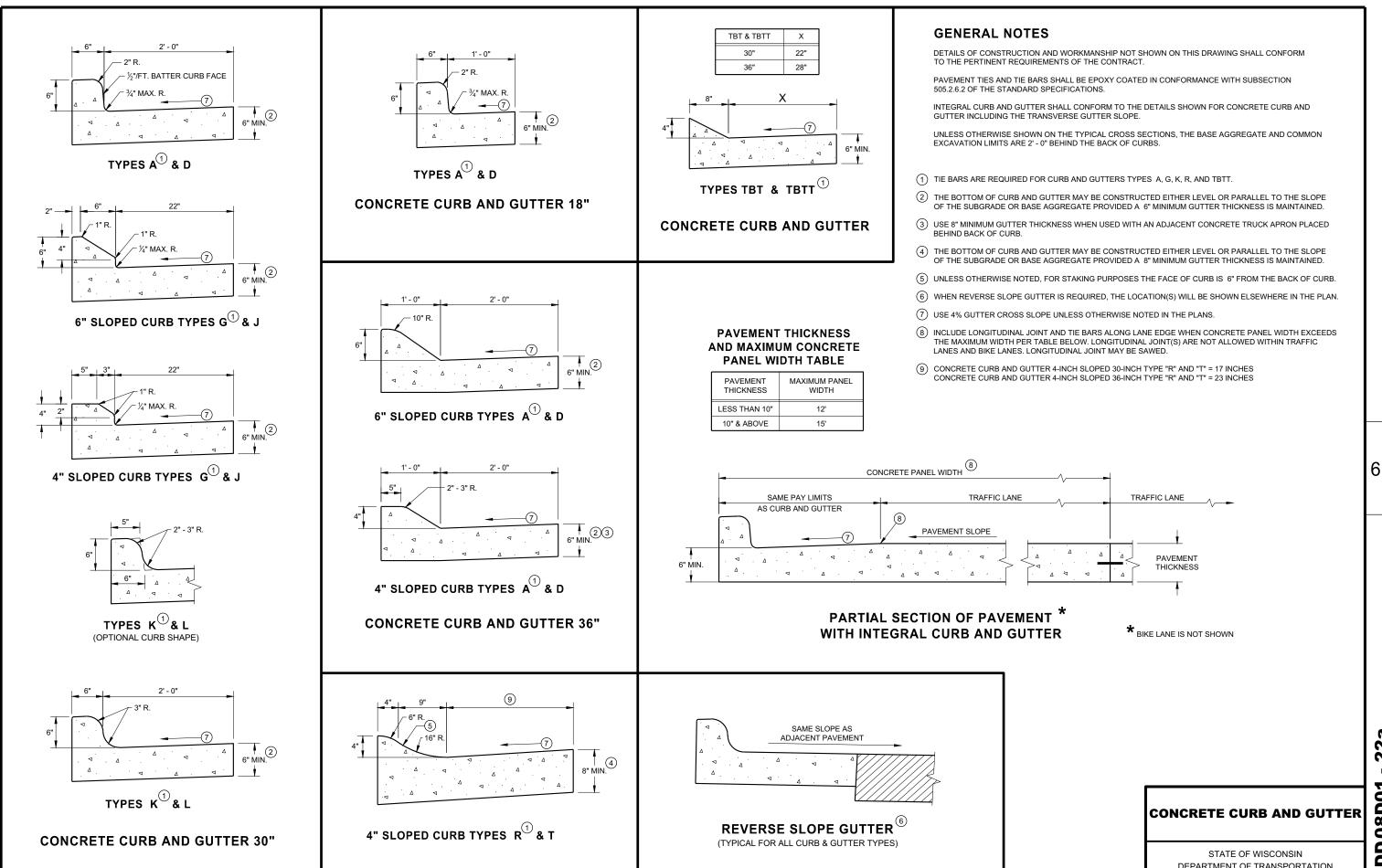






# Standard Detail Drawing List

08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D02-07A	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07B	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07C	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
08E14-01	TRACKING PAD
09G01-04A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
12A03-10	NAME PLATE (STRUCTURES)
13A03-06	CONCRETE PAVEMENT SHOULDERS
13B02-09A	
13B02-09B	
13C11-12A	
13C11-12B	
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 14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
1502-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	
15C11-08B	
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

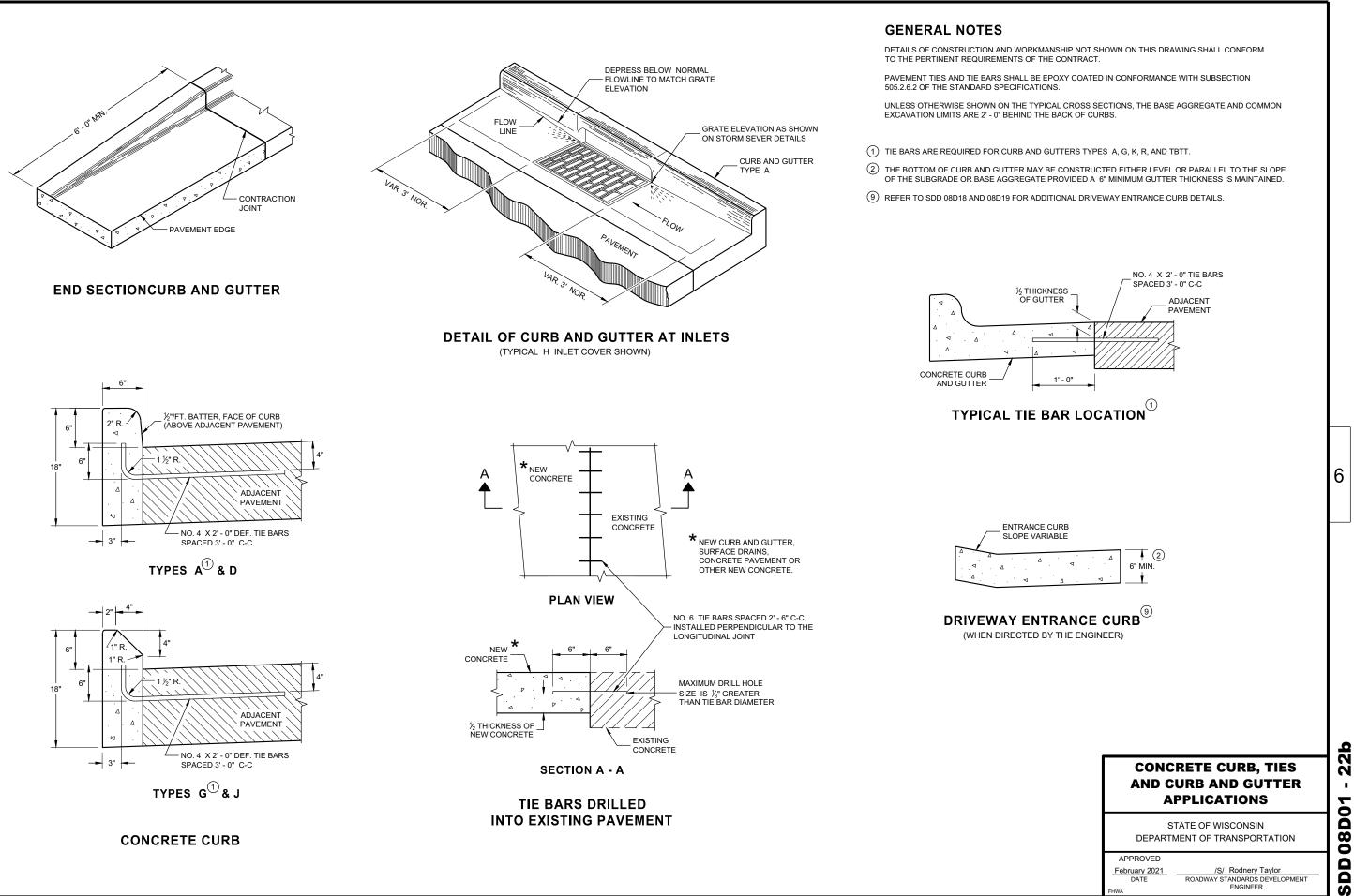


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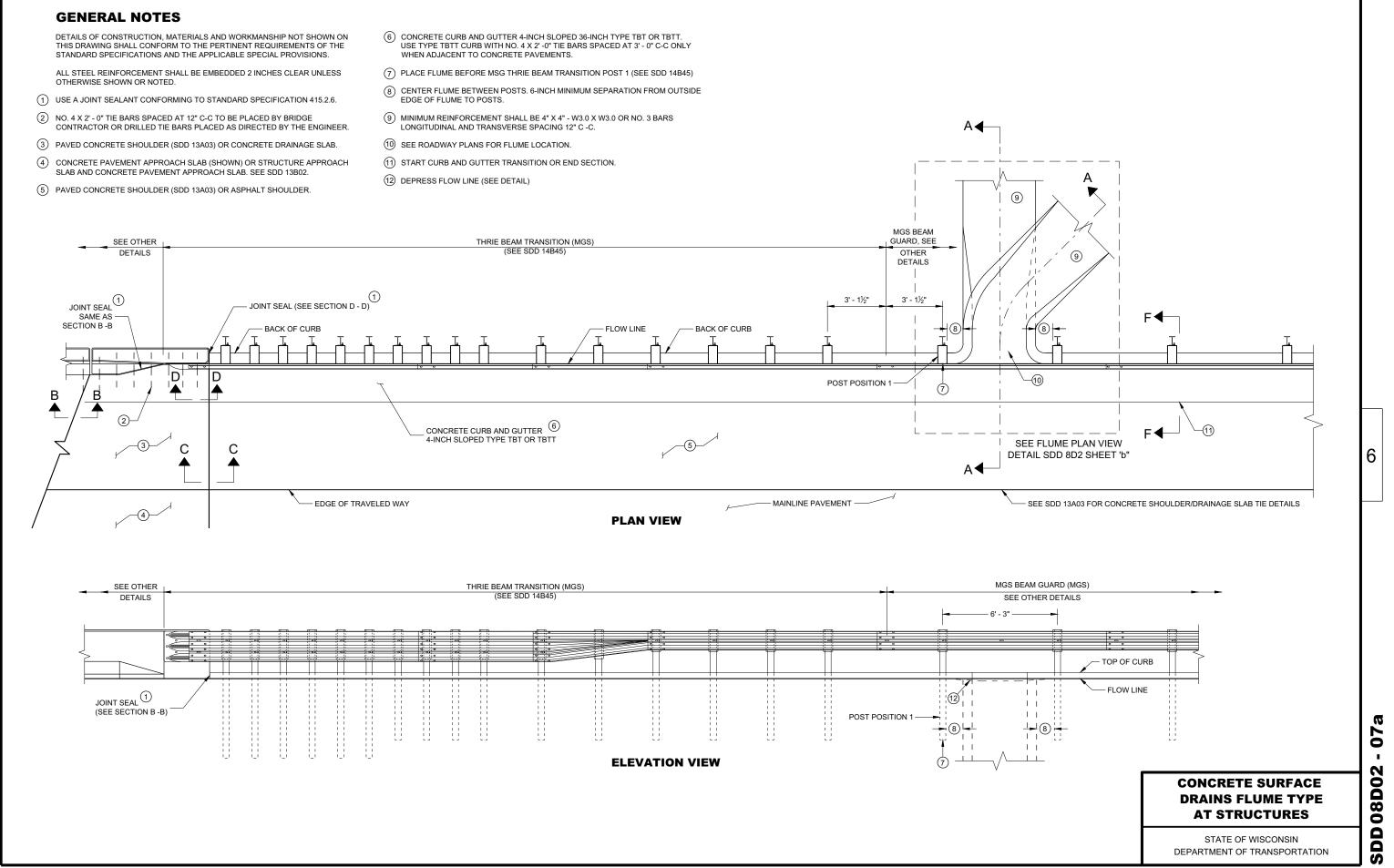
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DEPARTMENT OF TRANSPORTATION

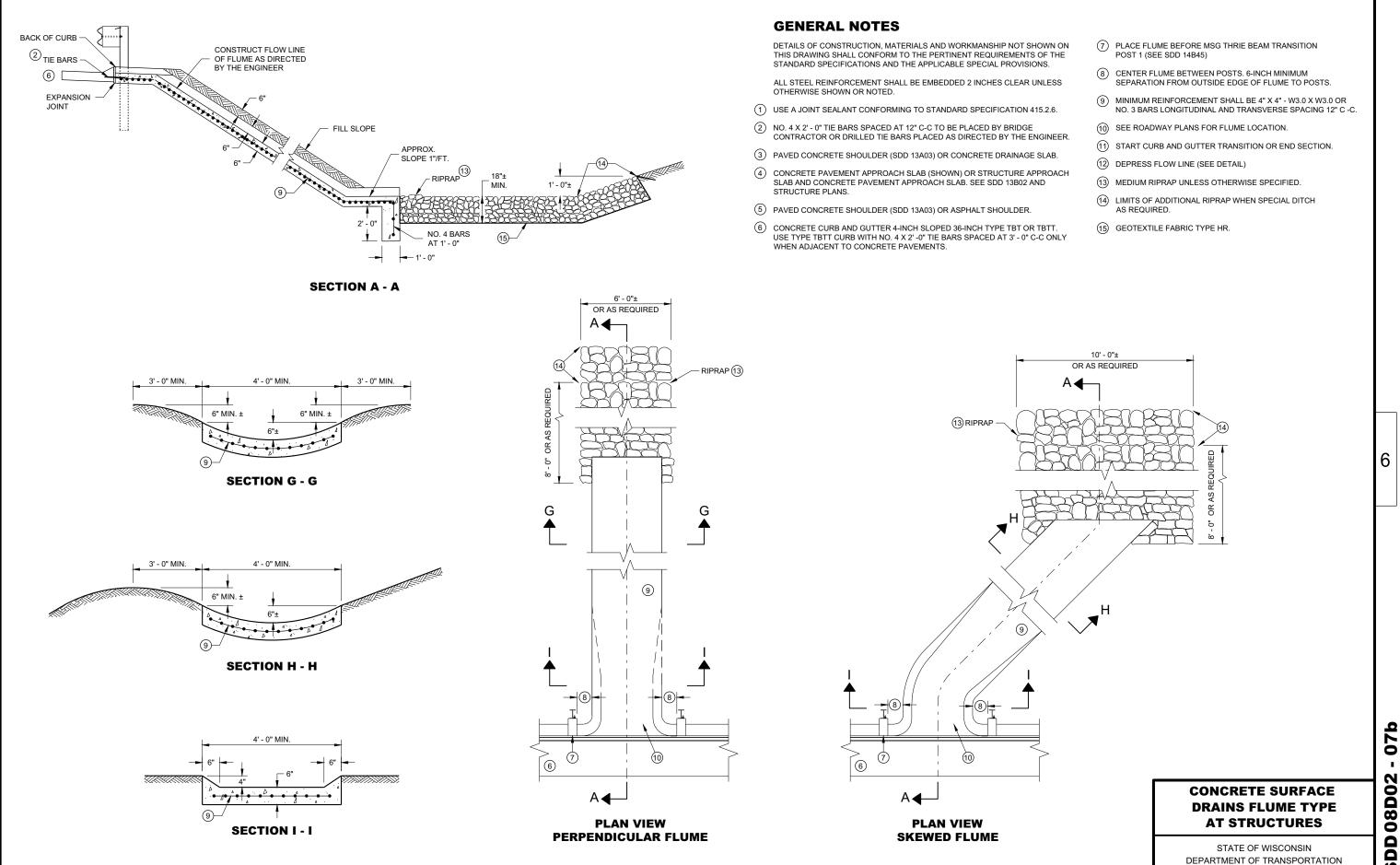
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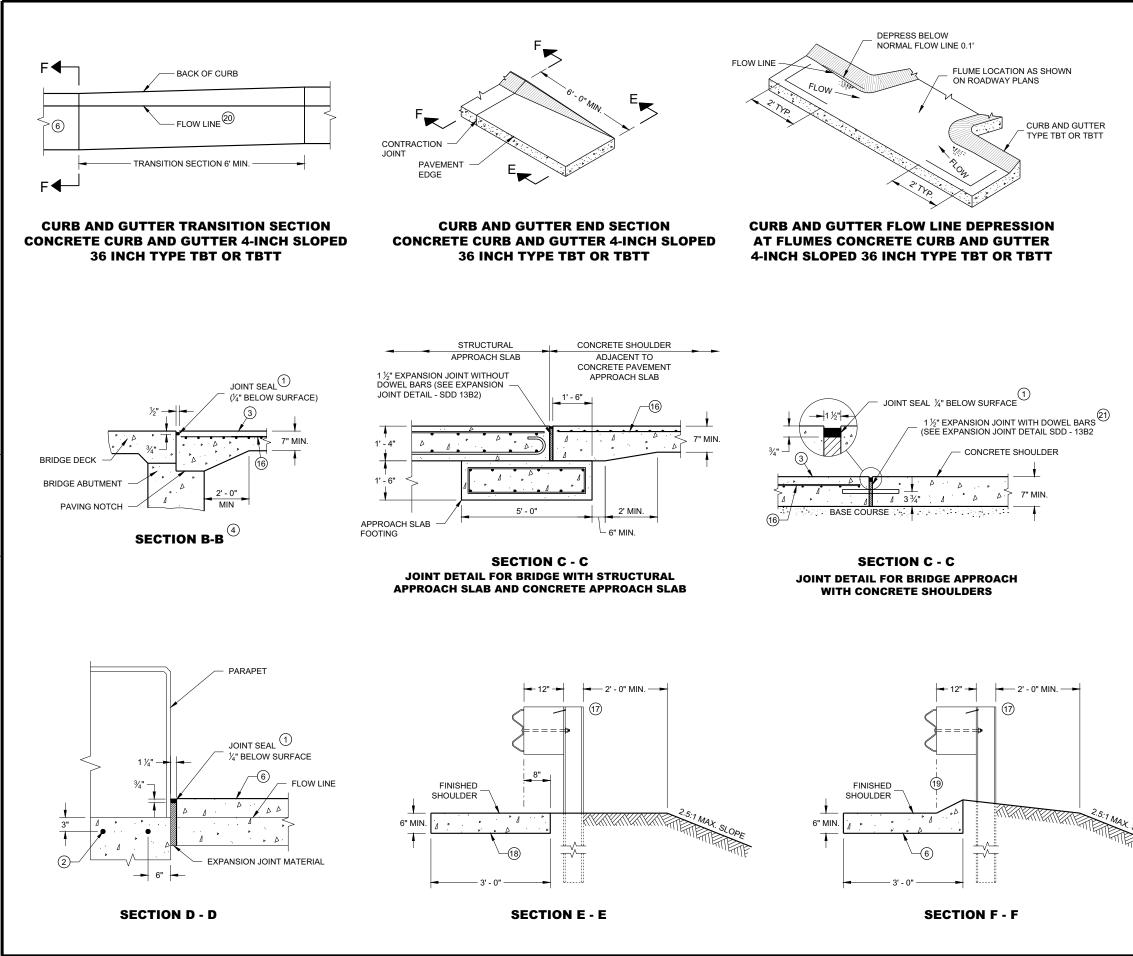
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# SDD 08D02 - 07a



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### **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 OTHERWISE SHOWN OR NOTED.

- (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.
- (1) SEE ROADWAY PLANS FOR FLUME LOCATION.
- (1) 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 FABRIC 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.

## CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER 6

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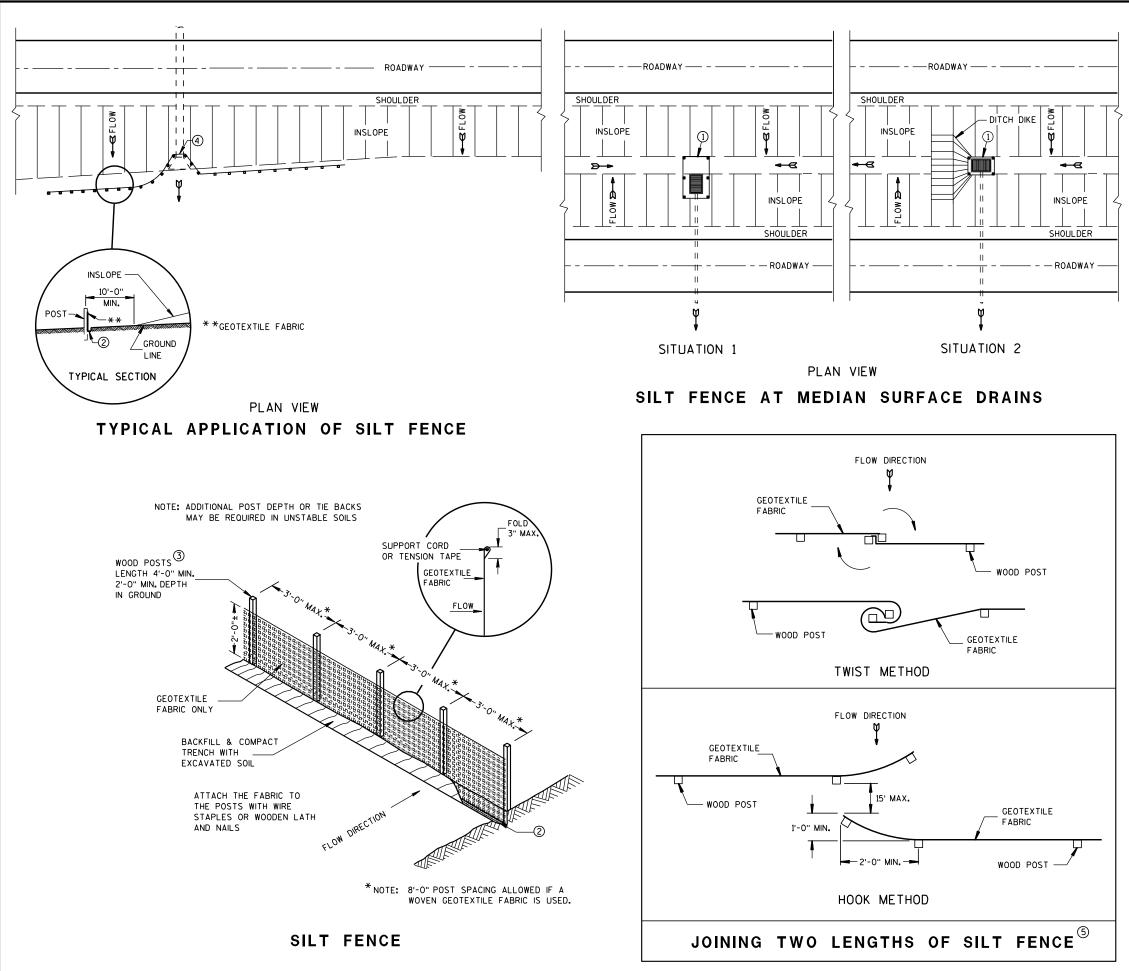
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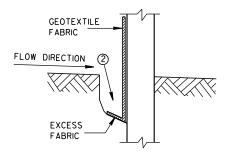
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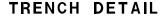
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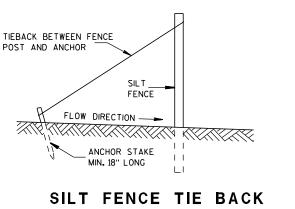
### **GENERAL NOTES**

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

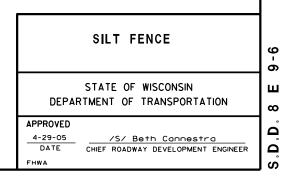
- $\bigcirc$  horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3) WOOD POSTS SHALL BE A MINIMUM SIZE OF  $1/_8$ " X  $1/_8$ " 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.

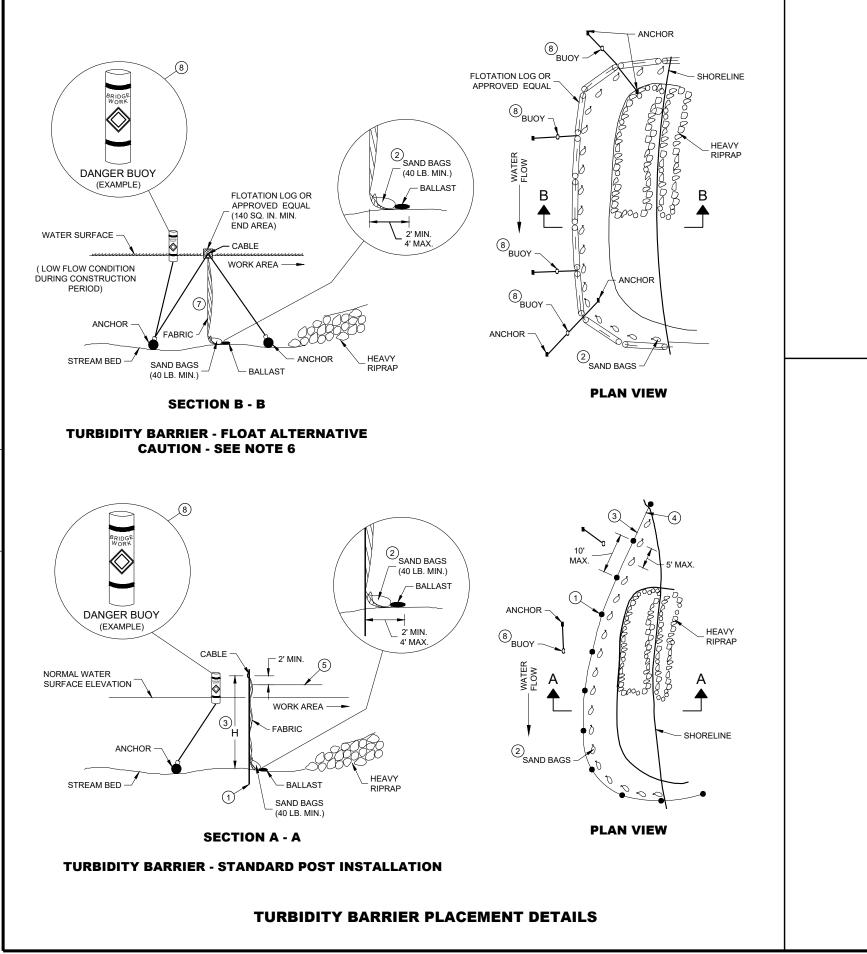




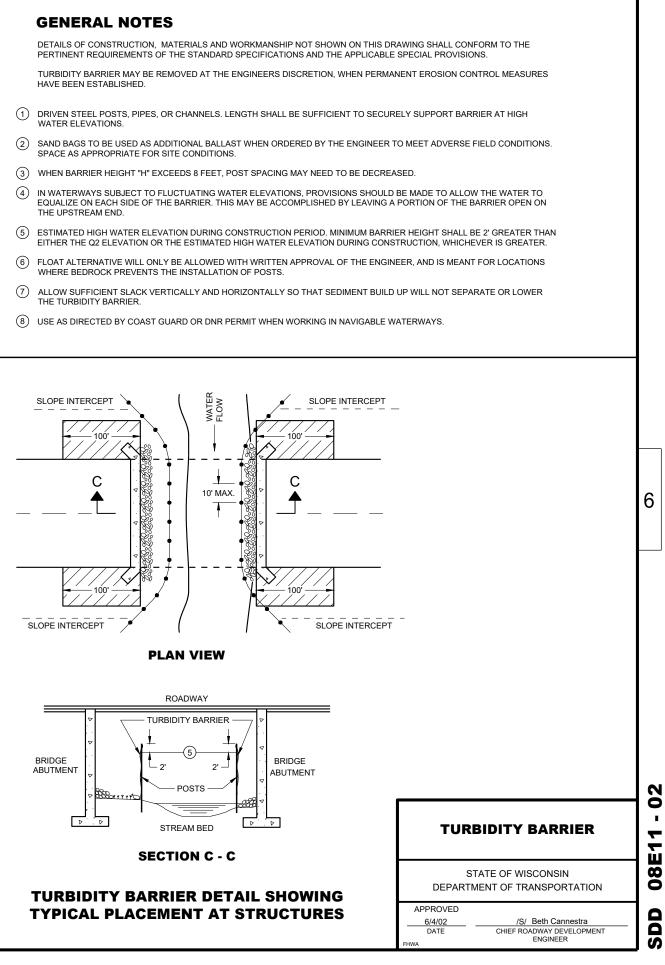


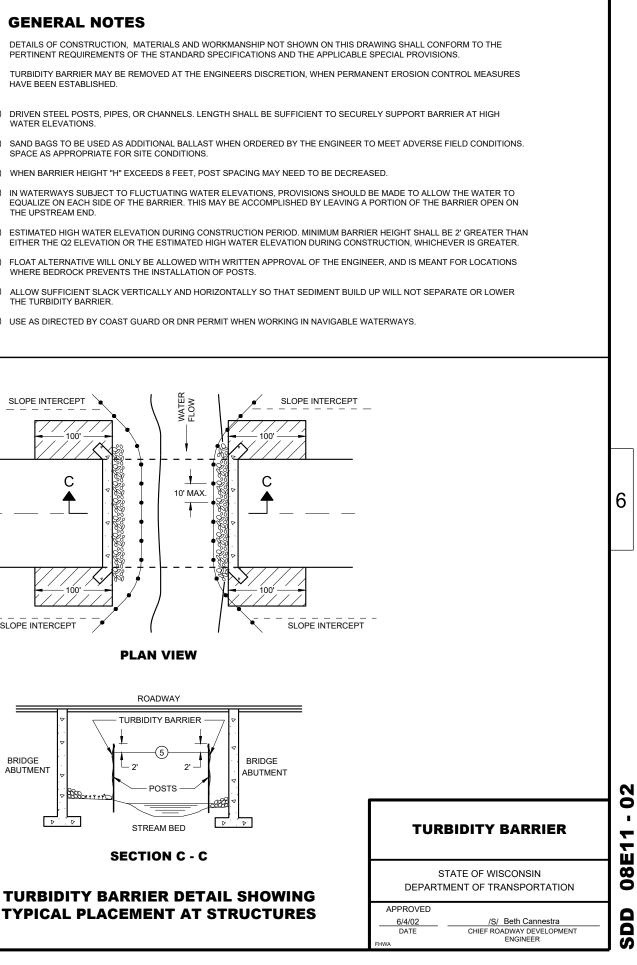
(WHEN REQUIRED BY THE ENGINEER)



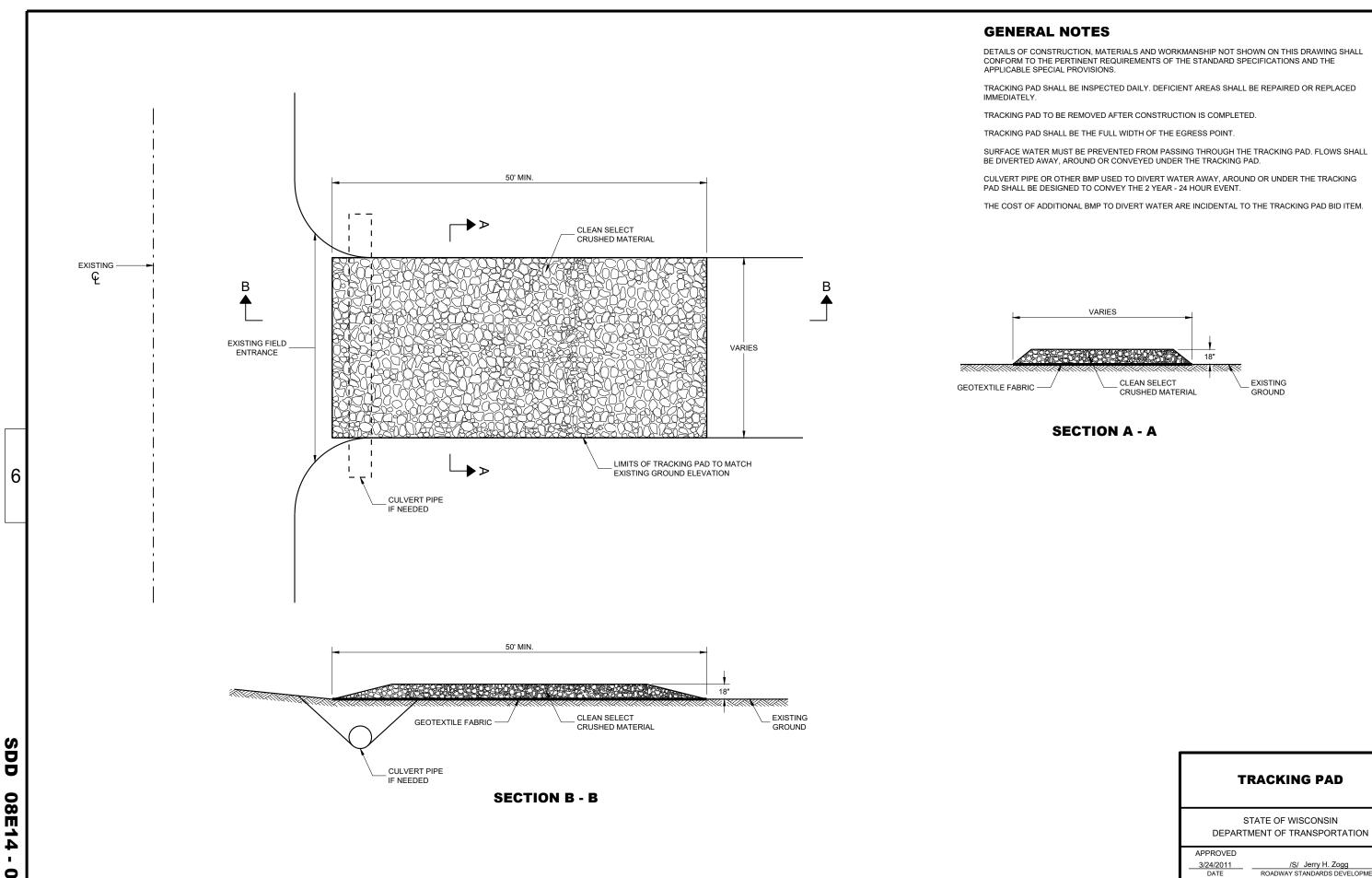


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### **TRACKING PAD**

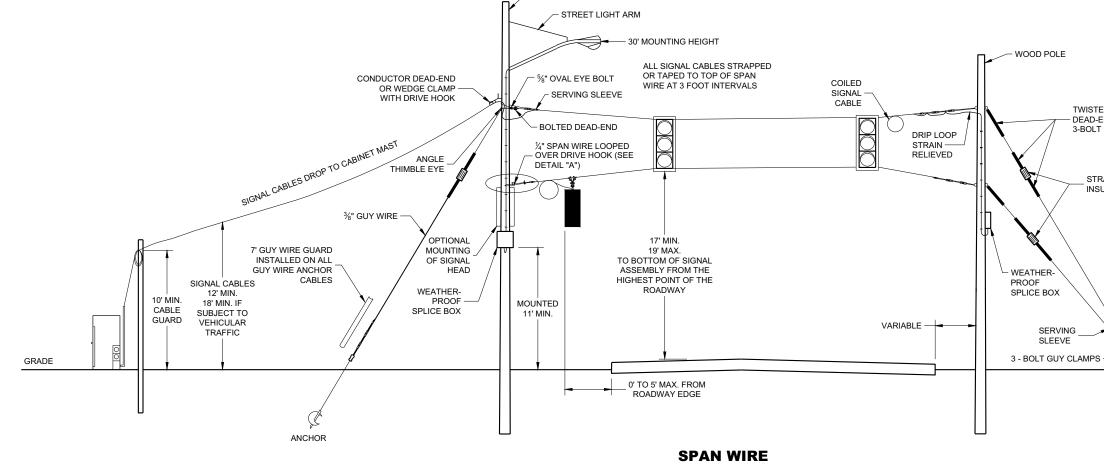
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

- 2. SIGNAL FACES:

- 3. SPAN WIRE:

  - WORK PROGRESSES.



WIRE ROPE TETHER WIRE CLIPS

DETAIL "A"

DRIVE HOOK

WOOD POLE

WOOD POLE

1/4" SERVING SLEEVE

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1/4" TETHER

**TEMPORARY SIGNALS** 

SDD 09G01 04a

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MINIMUM POLE

LENGTHS

25'

30'

35'

40'

45'

POLE BURIAL

DEPTHS

5'

6'

7'

8'

9'

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DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.

B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.

C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.

D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED

B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE. C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY

> TWISTED LOOP DEAD-ENDS OR 3-BOLT CLAMPS

> > STRAIN RELIEF INSULATOR

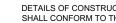
> > > 7' GUY WIRE GUARD INSTALLED ON ALL GUY WIRE ANCHOR CABLES - TWIN EYE AT GRADE GRADE Ð ANCHOR **SPAN WIRE TEMPORARY TRAFFIC SIGNAL** STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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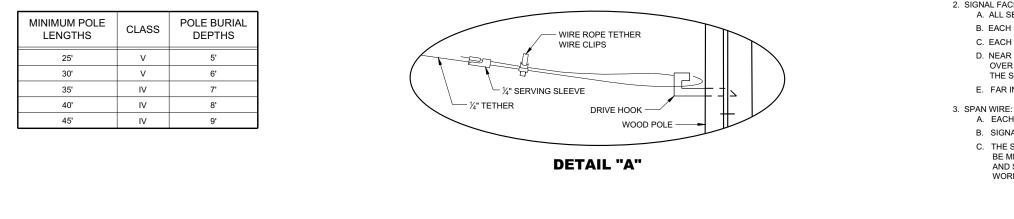
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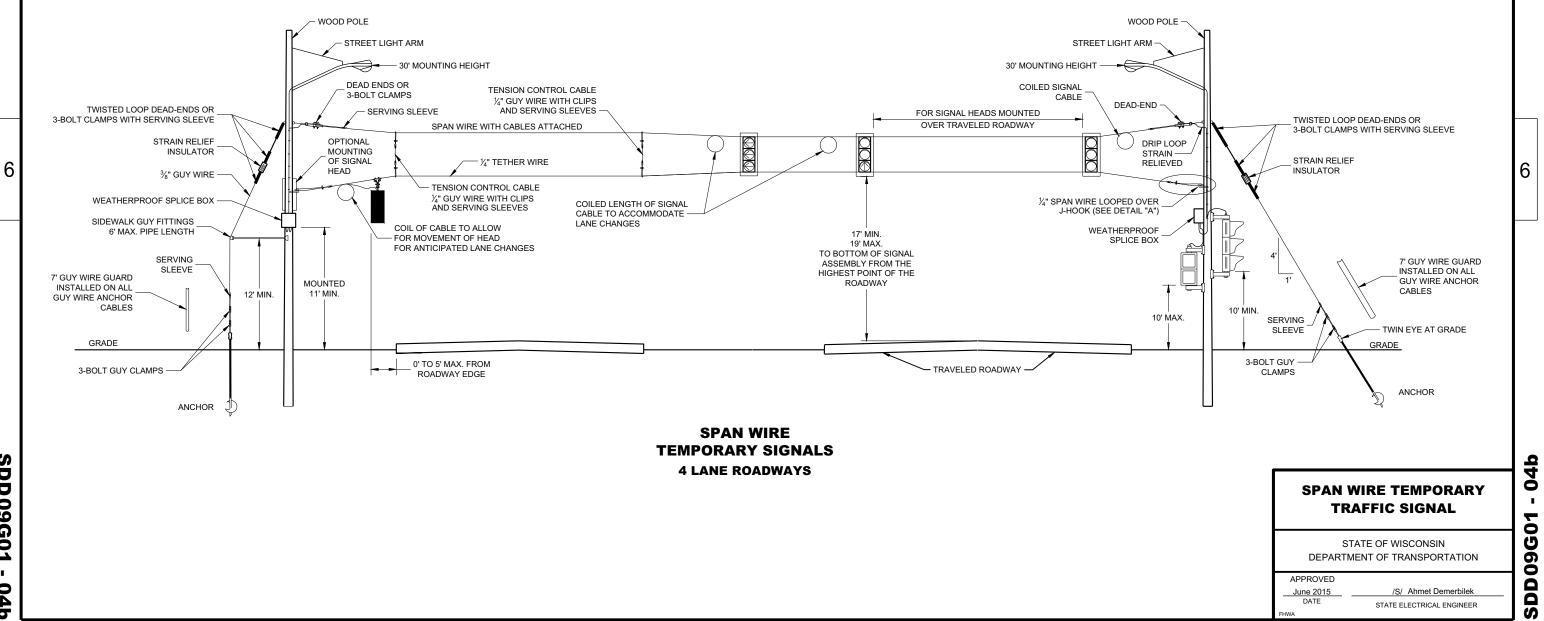
APPROVED June 2015 DATE

/S/ Ahmet Demerbilek STATE ELECTRICAL ENGINEER









DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.

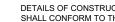
C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET

D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

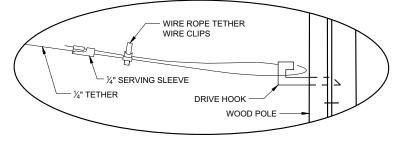
A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED

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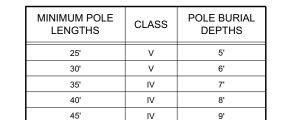


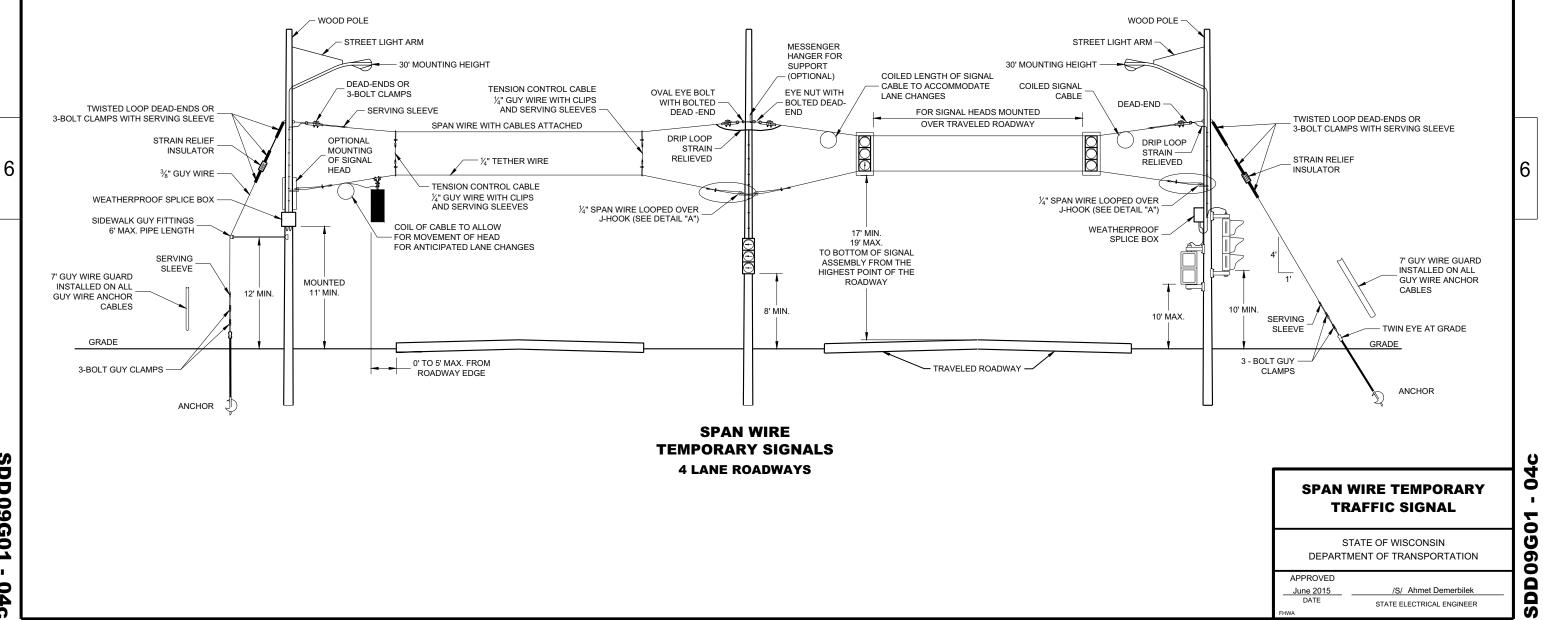
- 2. SIGNAL FACES:
- - 3. SPAN WIRE:

  - WORK PROGRESSES.



DETAIL "A"





DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE

B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.

C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET

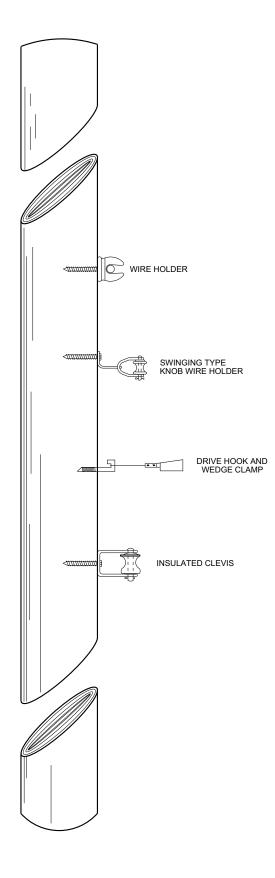
D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

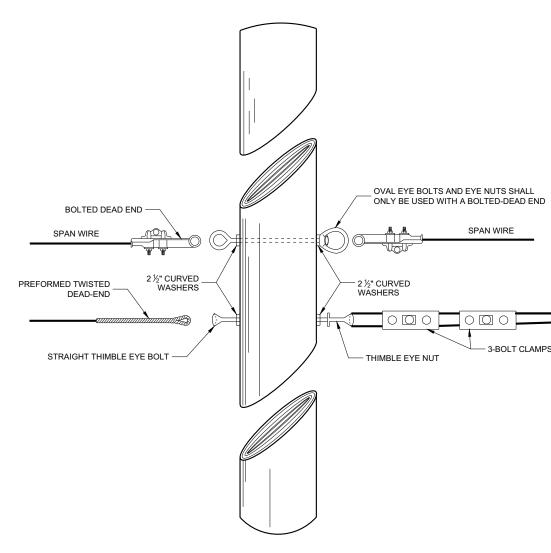
E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED

B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE. C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY







**SPAN WIRE TEMPORARY TRAFFIC SIGNAL** 

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2015 /S/ Ahmet Demerbilek DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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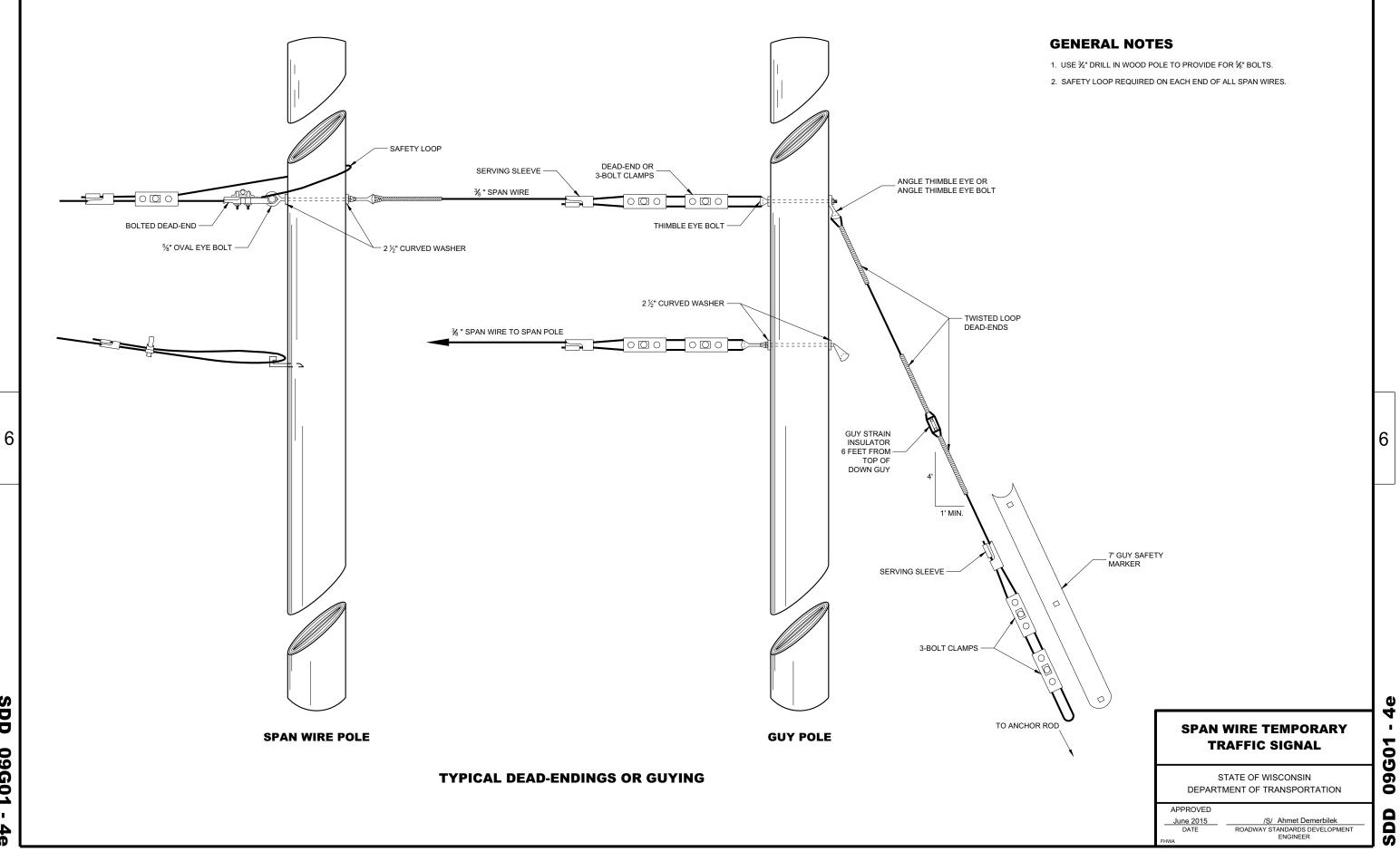
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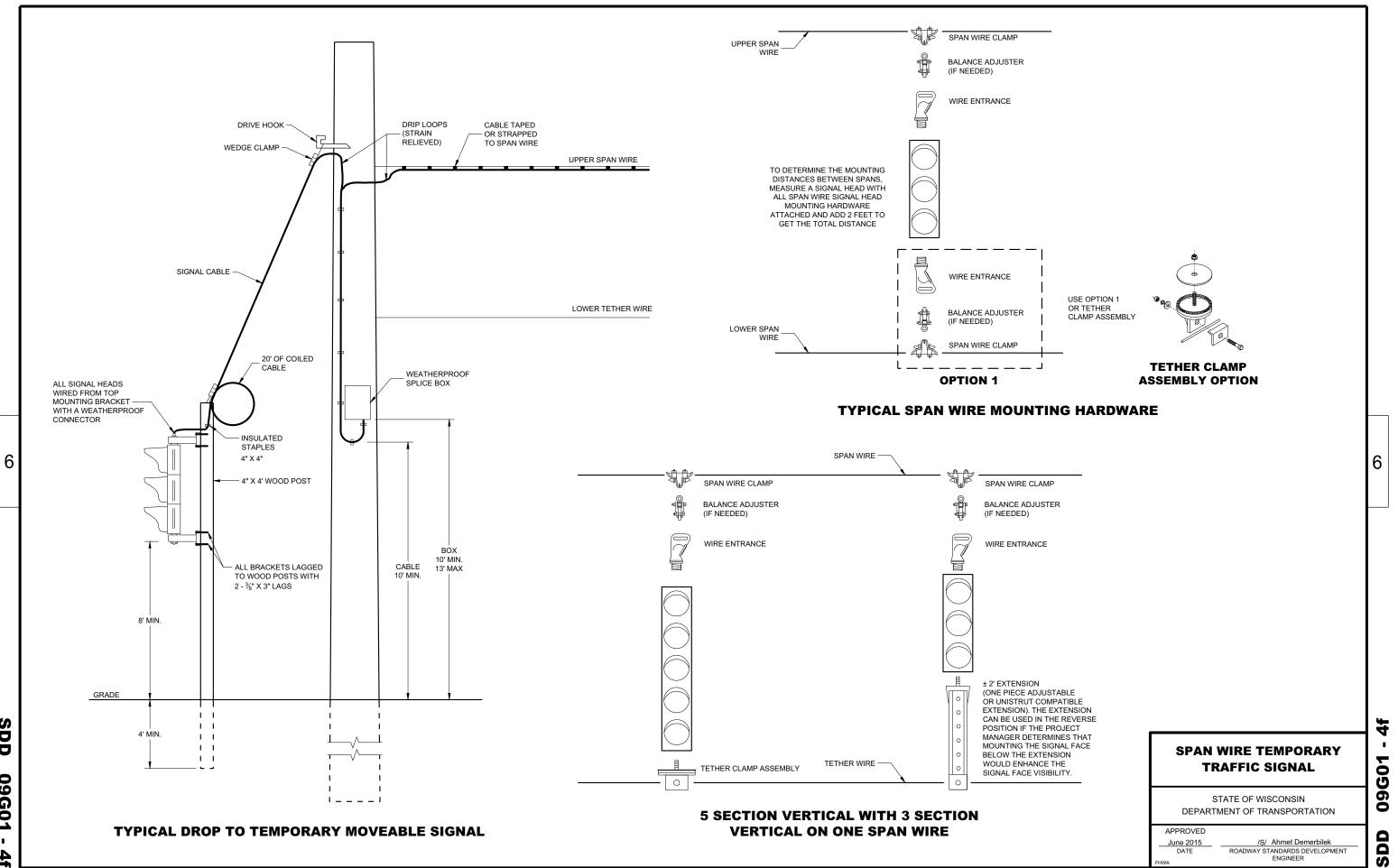
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-LFC 1\_ - SERVING SLEEVE - 3-BOLT CLAMPS

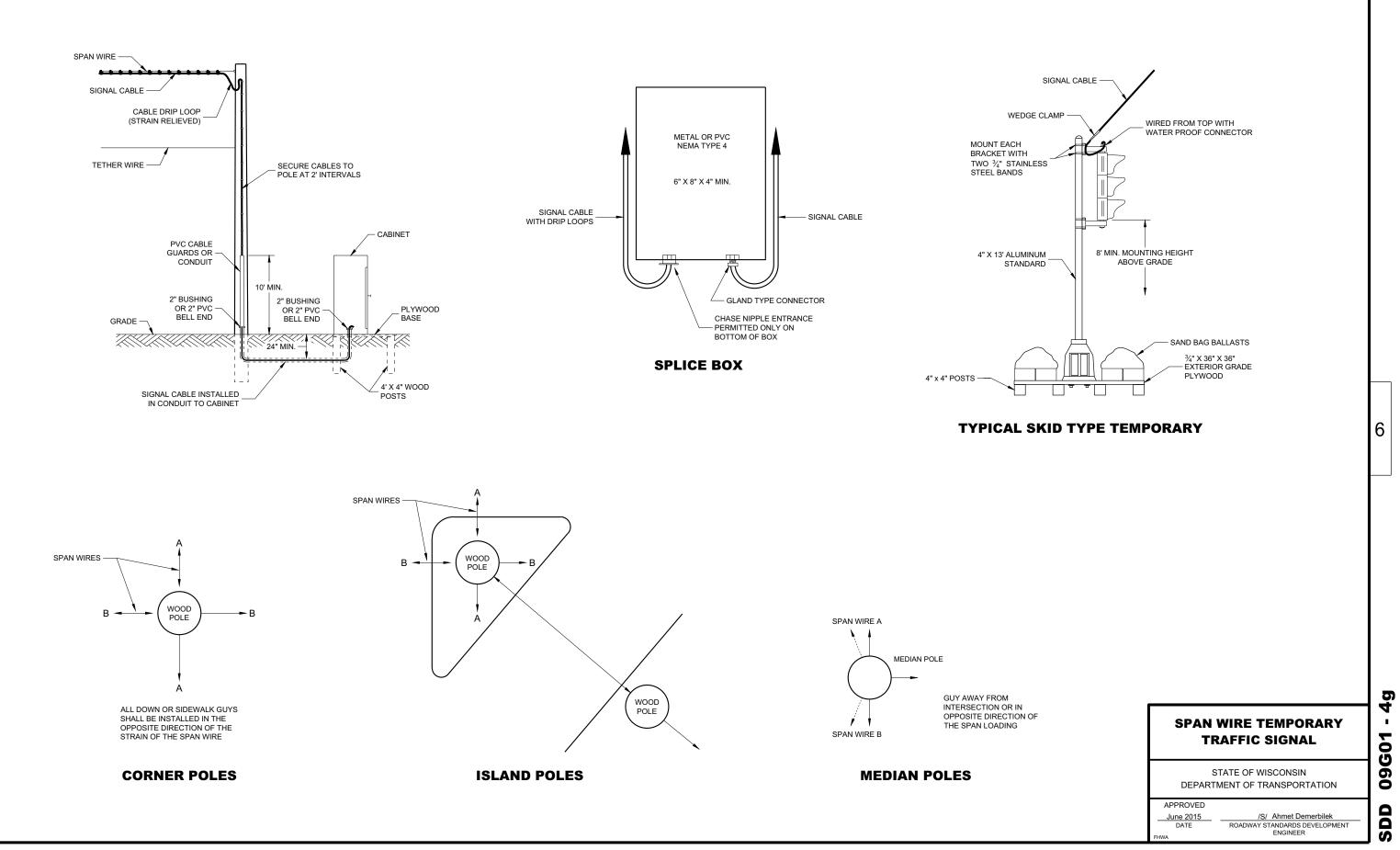


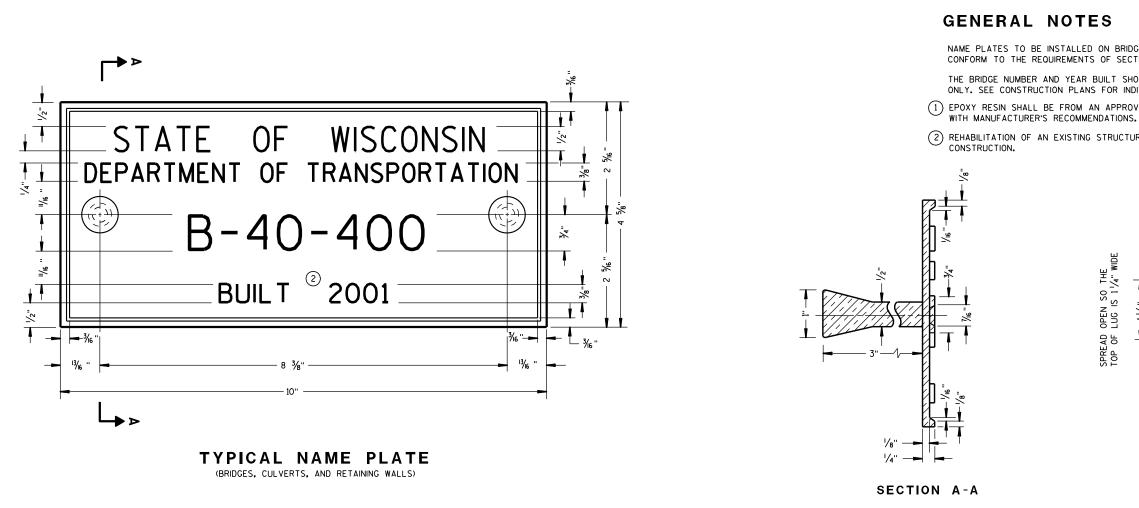


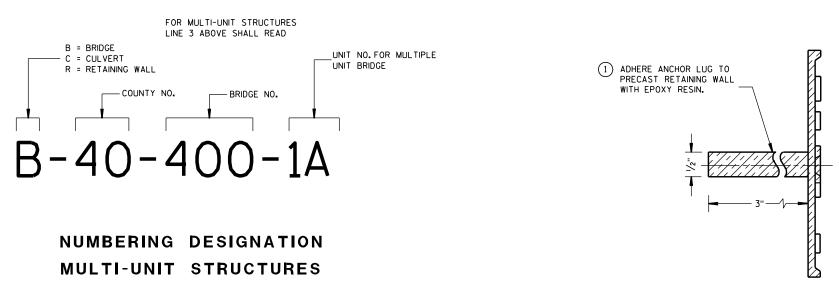
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/S/ Ahmet Demerbilek ROADWAY STANDARDS DEVELOPMENT ENGINEER

June 2015 DATE





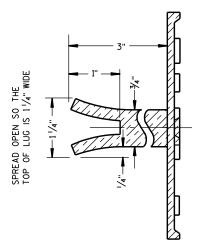


ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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

(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE



### ALTERNATE LUG

### NAME PLATE (STRUCTURES)

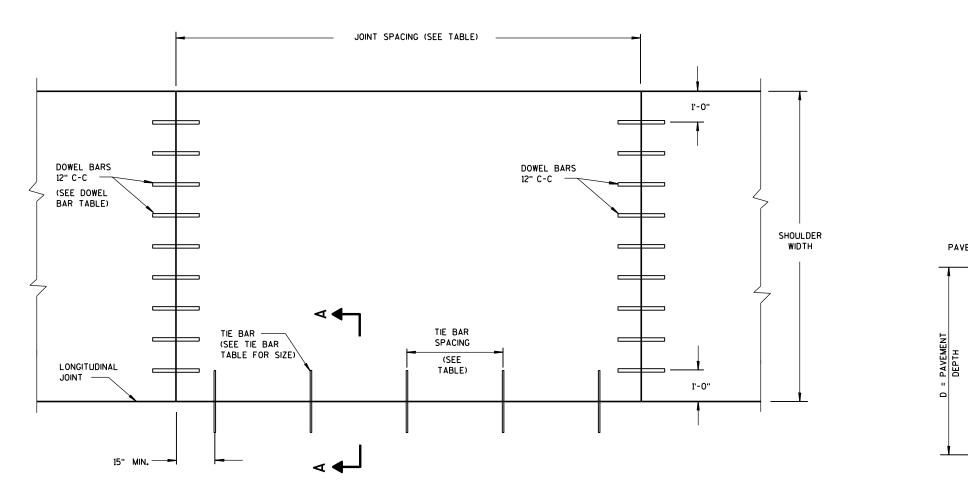
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

### APPROVED

3/26/10 DATE FHWA

/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER 6

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### TIE BAR TABLE

DEI	PAVEMENT TIE BAR DEPTH SIZE (D)		PTH SIZE		TIE BAR Length (L)	MAX. TIE BAR Spacing	
< 10	1⁄2"	NO. 4	30"	36"			
> 10	≥ 10 ½"	NO. 5	36"	36"			
2 10	12	NO. 4 *	30"	24"**			

\* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

\*\* CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN THE BARS WILL BE 30" AT TRANSVERSE JOINTS.

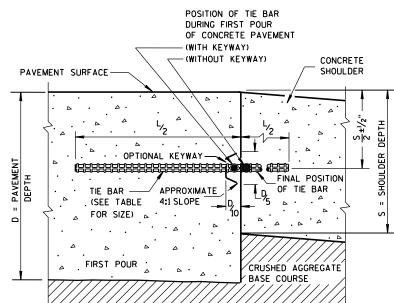
# **GENERAL NOTES**

THE APPLICABLE SPECIAL PROVISIONS.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



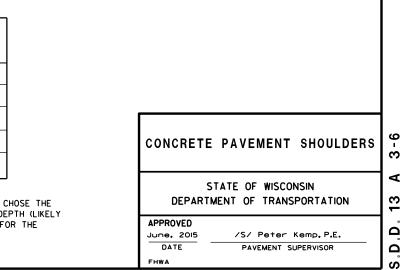
# PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

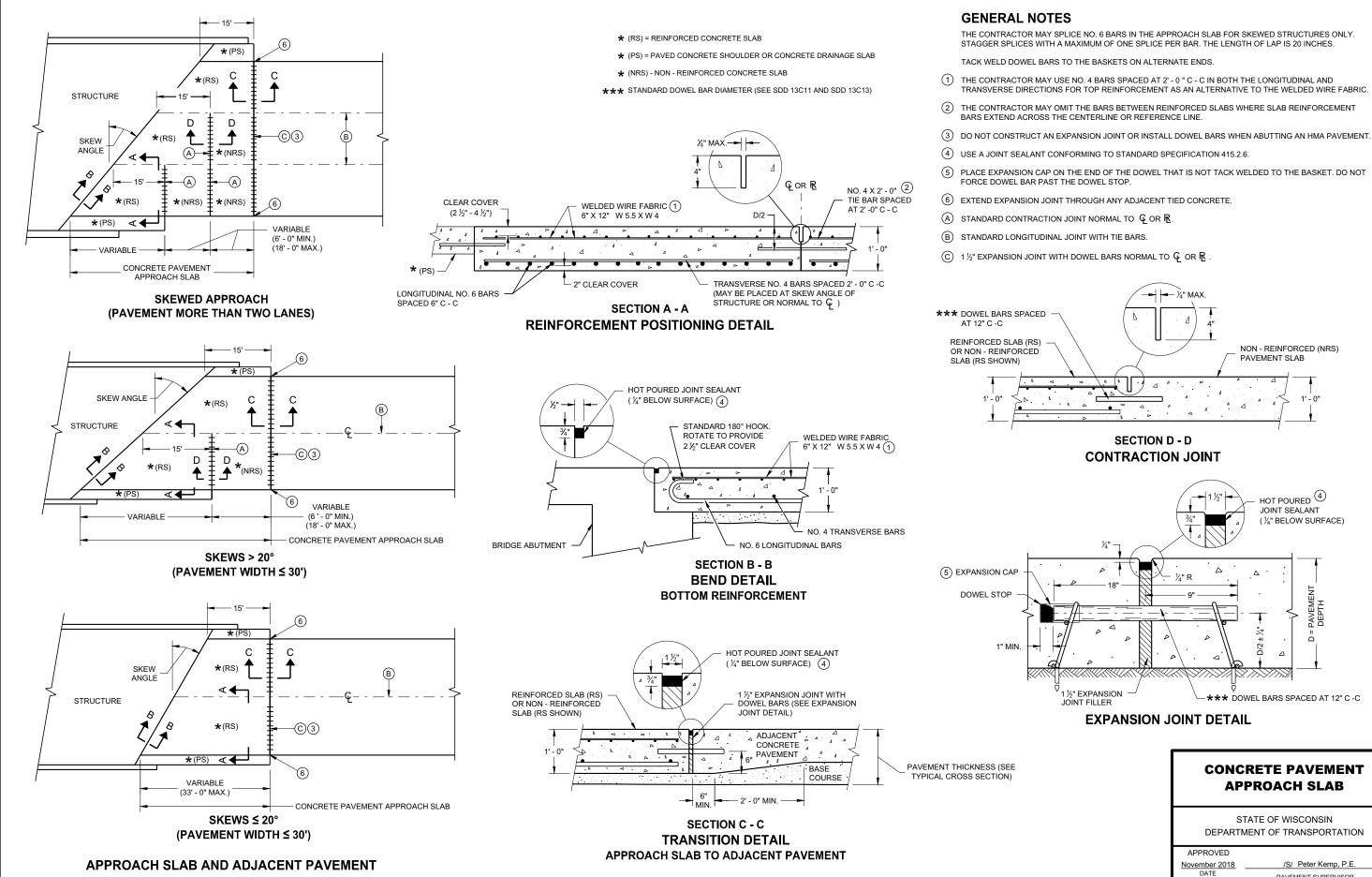
PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER <sup>***</sup>	CONTRACTION JOINT SPACING
5 1/2", 6",6 1/2"	NONE	12'
7" <b>,</b> 7 1⁄2"	1''	14'
8", 8 <sup>1</sup> /2"	1 1⁄4"	15'
9" <b>,</b> 9 ½"	1 1⁄4"	15'
10" & ABOVE	1 1/2"	15'

\*\*\* FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

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

# SECTION A-A LONGITUDINAL CONSTRUCTION JOINT





**SDD 13B02** 09

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### 5 ດ Ó **CONCRETE PAVEMENT** . N 0 2 3 DEPARTMENT OF TRANSPORTATION ~ Δ

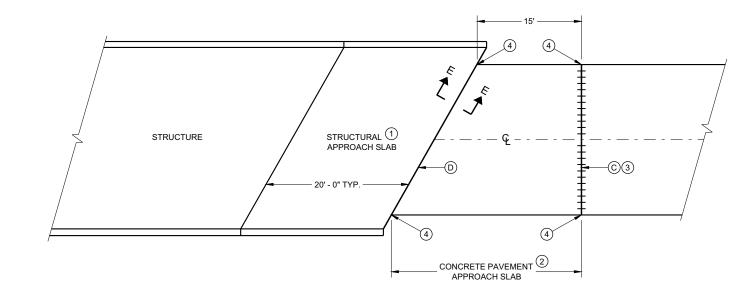
PAVEMENT SUPERVISOR

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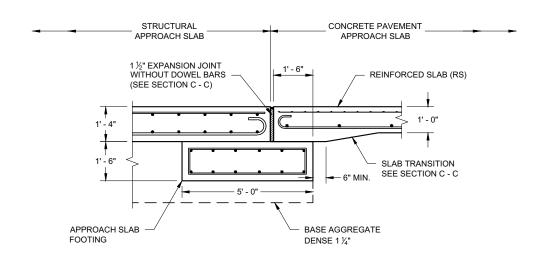
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### (1) SEE BRIDGE PLAN.

- (2) CONFORM TO SDD 13B02 SHEET A FOR CONCRETE PAVEMENT APPROACH SLAB DETAILS  $(\mathfrak{Z})$  do not construct an expansion joint or install dowel bars when abutting an HMA pavement.
- (4) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.
- $\bigcirc$  1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO  $\bigcirc$  OR  $\mathbb{R}$ .
- (D) 1 ½" EXPANSION JOINT (NO DOWELS)



### **BRIDGE APPROACHES**



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

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

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# 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

SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

(1) REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

SEE TABLE FOR JOINT SPACING

CONTRACTION JOINT LAYOUT

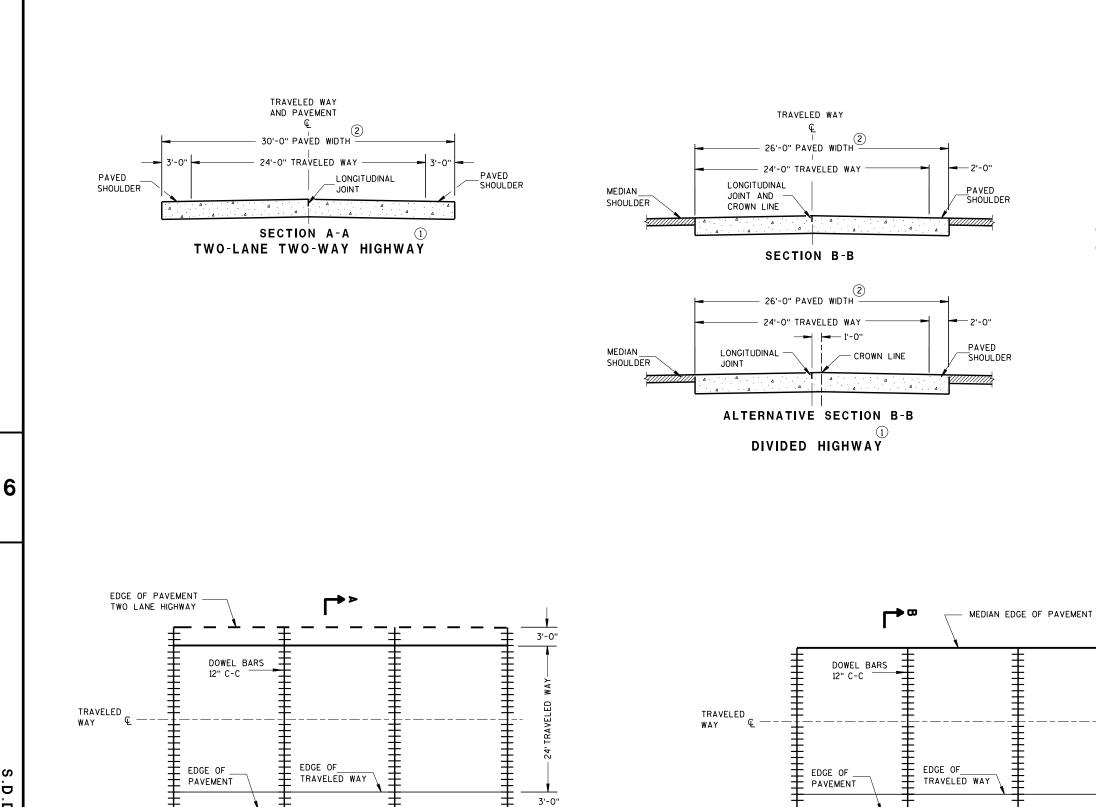
FOR DIVIDED HIGHWAY

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**TRAVELED** 

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2'-0''



SEE TABLE FOR JOINT SPACING

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CONTRACTION JOINT LAYOUT

FOR TWO-LANE TWO-WAY HIGHWAY



CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

(2) MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED PAVED SHOULDER AS CONCRETE PAVEMENT.

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2",6",6 1/2"	NONE	12'
7",7 <sup> </sup> /2"	1"	14'
8" <b>,</b> 8 <sup>1</sup> / <sub>2</sub> "	1 1⁄4"	15'
9" <b>,</b> 9 <sup>1</sup> / <sub>2</sub> "	1 1⁄4"	15'
10" & ABOVE	1 1⁄2"	15'

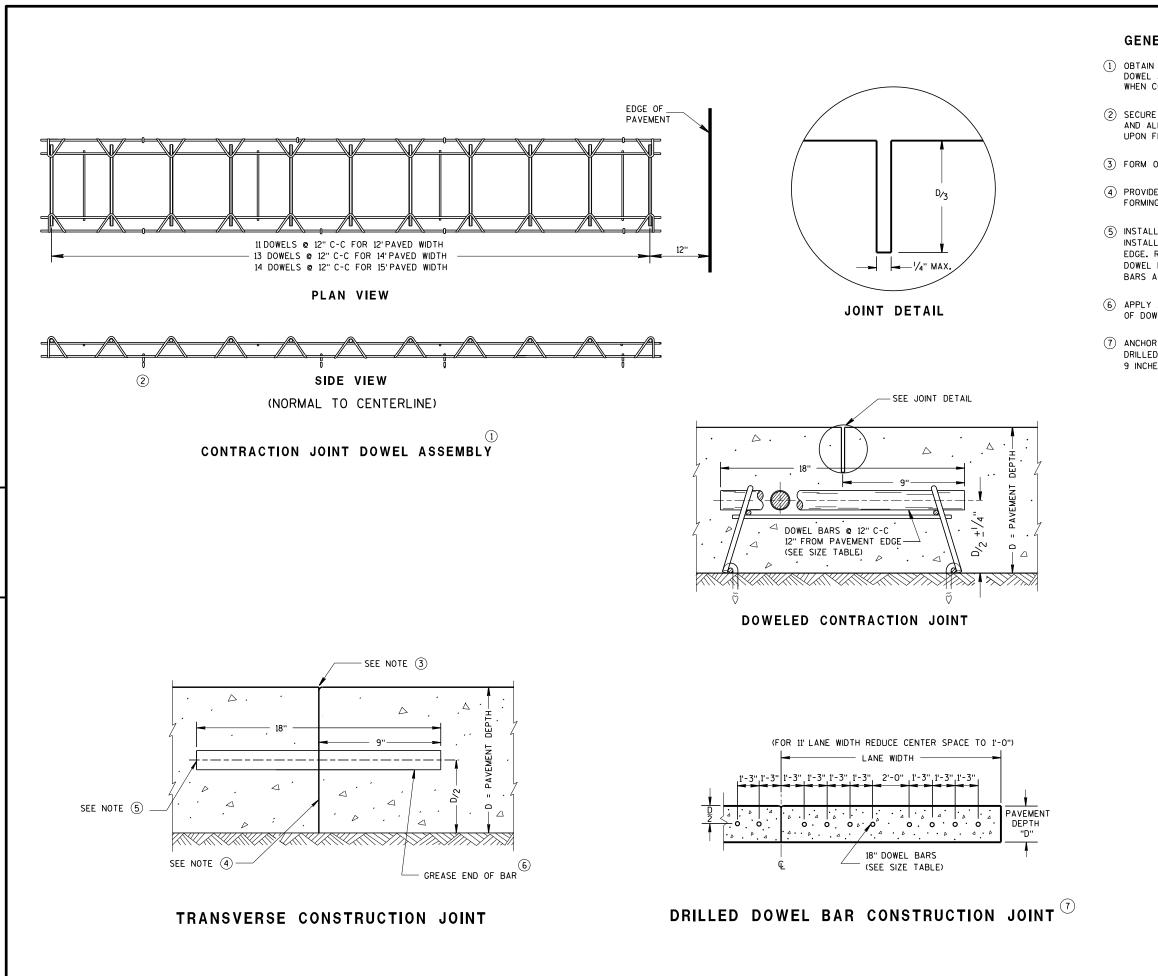
### PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

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### RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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### **GENERAL NOTES**

(1) OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

(2) SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

(3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.

(4) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

(5) INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO DRILLED DOWEL BAR CONSTRUCTION JOINT DETAIL.

(6) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

(7) ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.

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### RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

March 2018 DATE

/S/ Peter Kemp.P.E. PAVEMENT SUPERVISOR

**FHWA** 

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- (A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED
- © DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.
- D ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.
- E HARDWARE MAY VARY BETWEEN MANUFACTURER SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

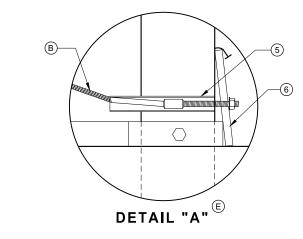
SEE SDD 14B42 FOR MORE INFORMATION.

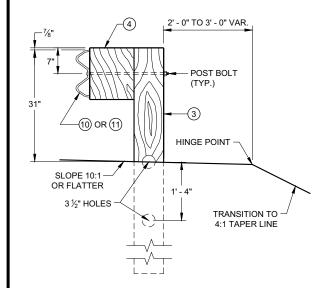
★ DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

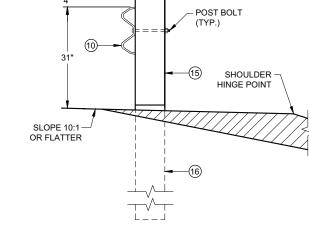
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.

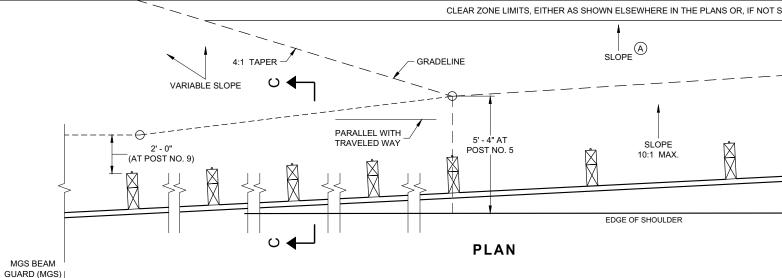


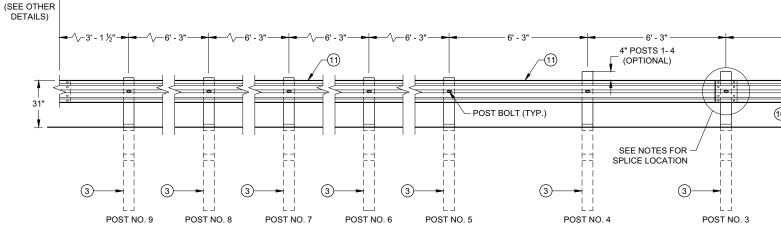


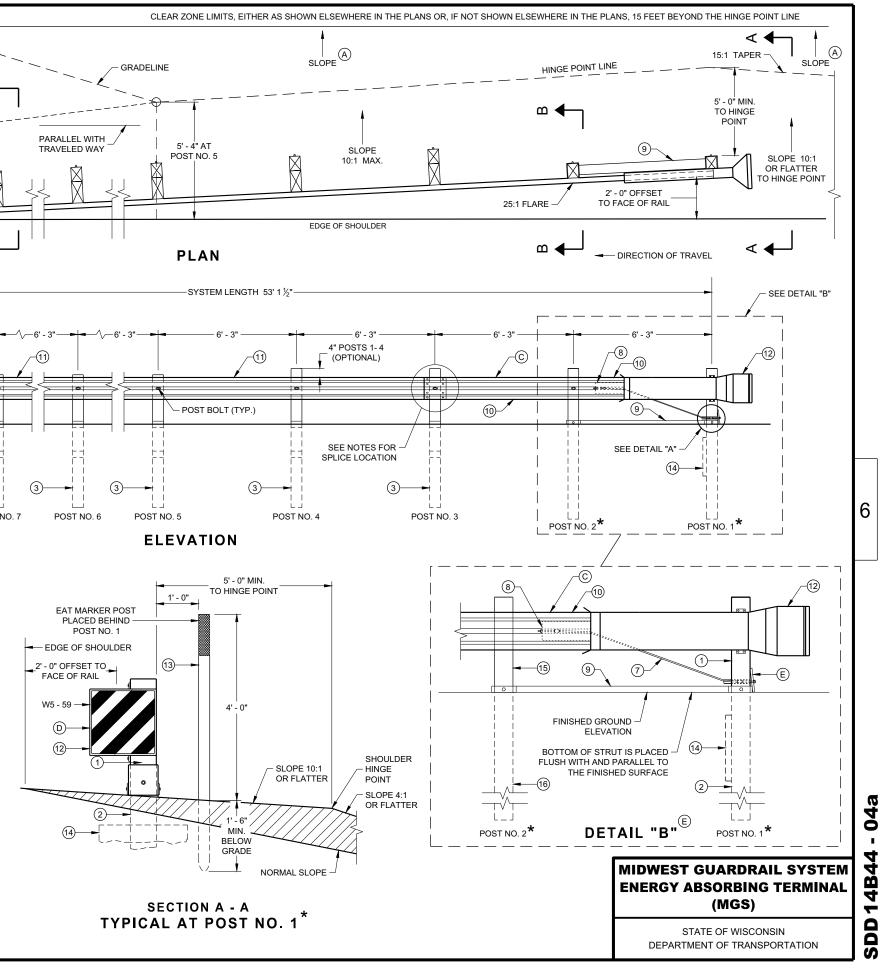


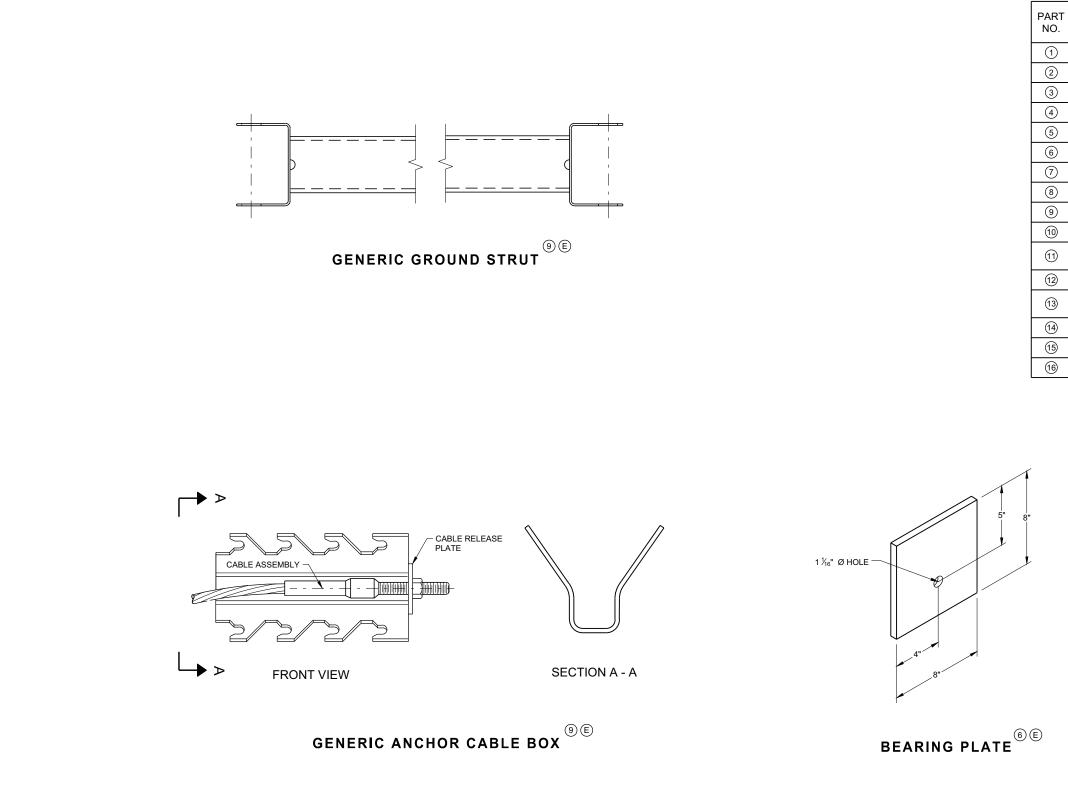


SECTION B - B TYPICAL AT POST NO. 2\*









SDD 14B44 - 04b

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# BILL OF MATERIALS

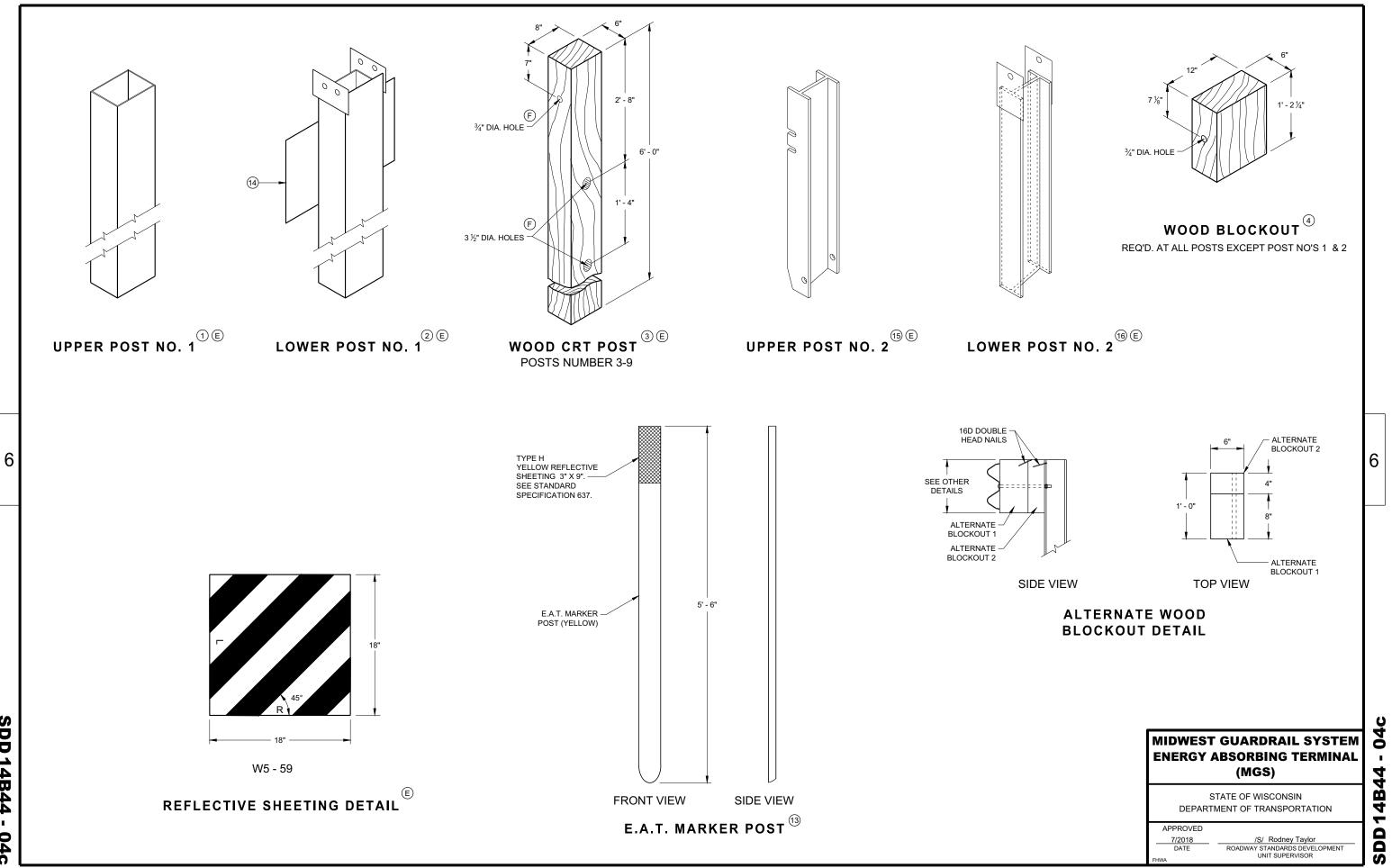
DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
UPPER POST NO. 1 6" X 6" TUBE
LOWER POST NO. 1
WOOD CRT
WOOD BLOCKOUT
PIPE SLEEVE
BEARING PLATE
BCT CABLE ASSEMBLY
ANCHOR CABLE BOX
GROUND STRUT
PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
IMPACT HEAD
EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
SOIL PLATE
UPPER POST NO. 2
LOWER POST NO. 2

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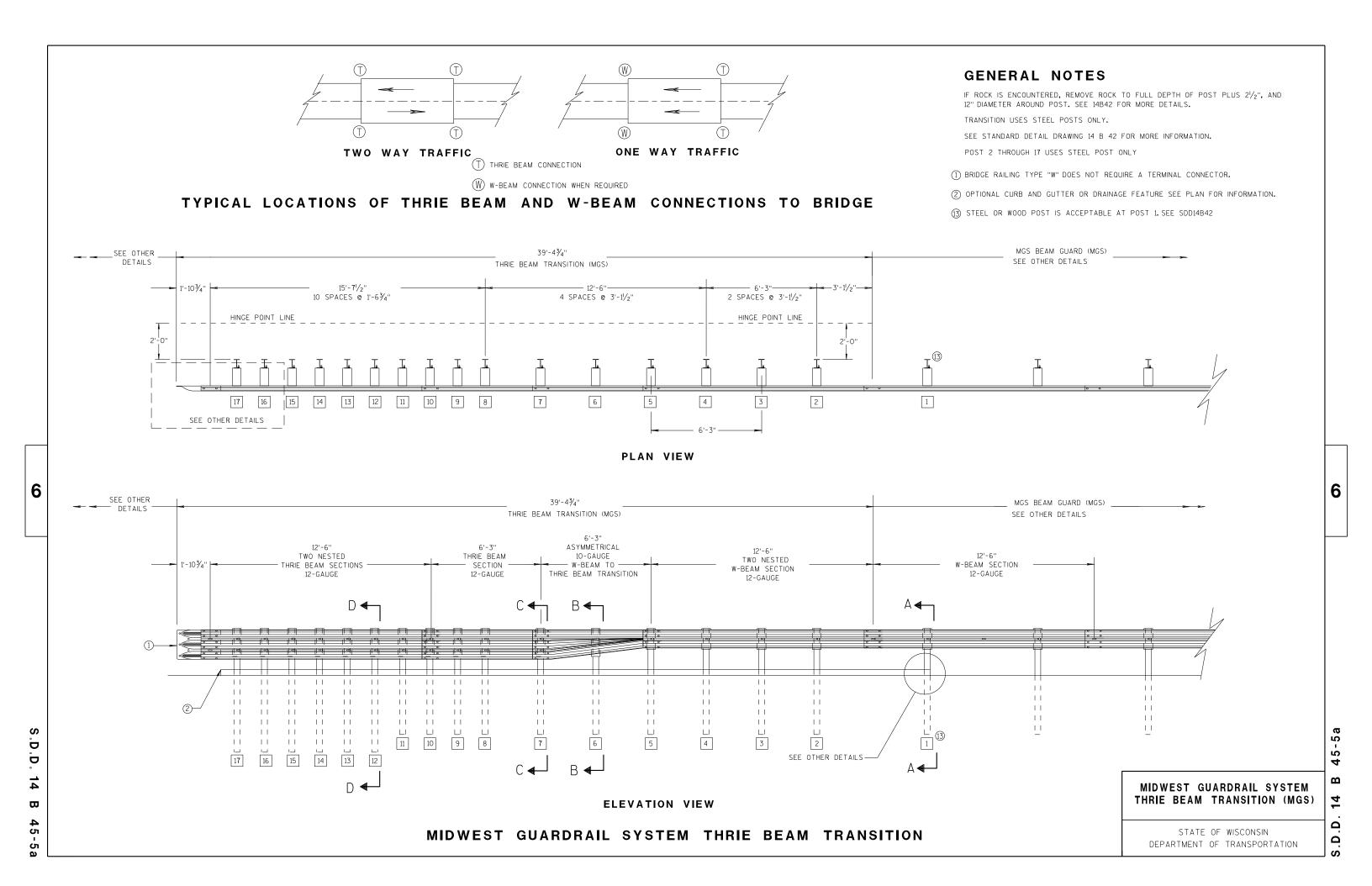
# SDD14B44 - 04b

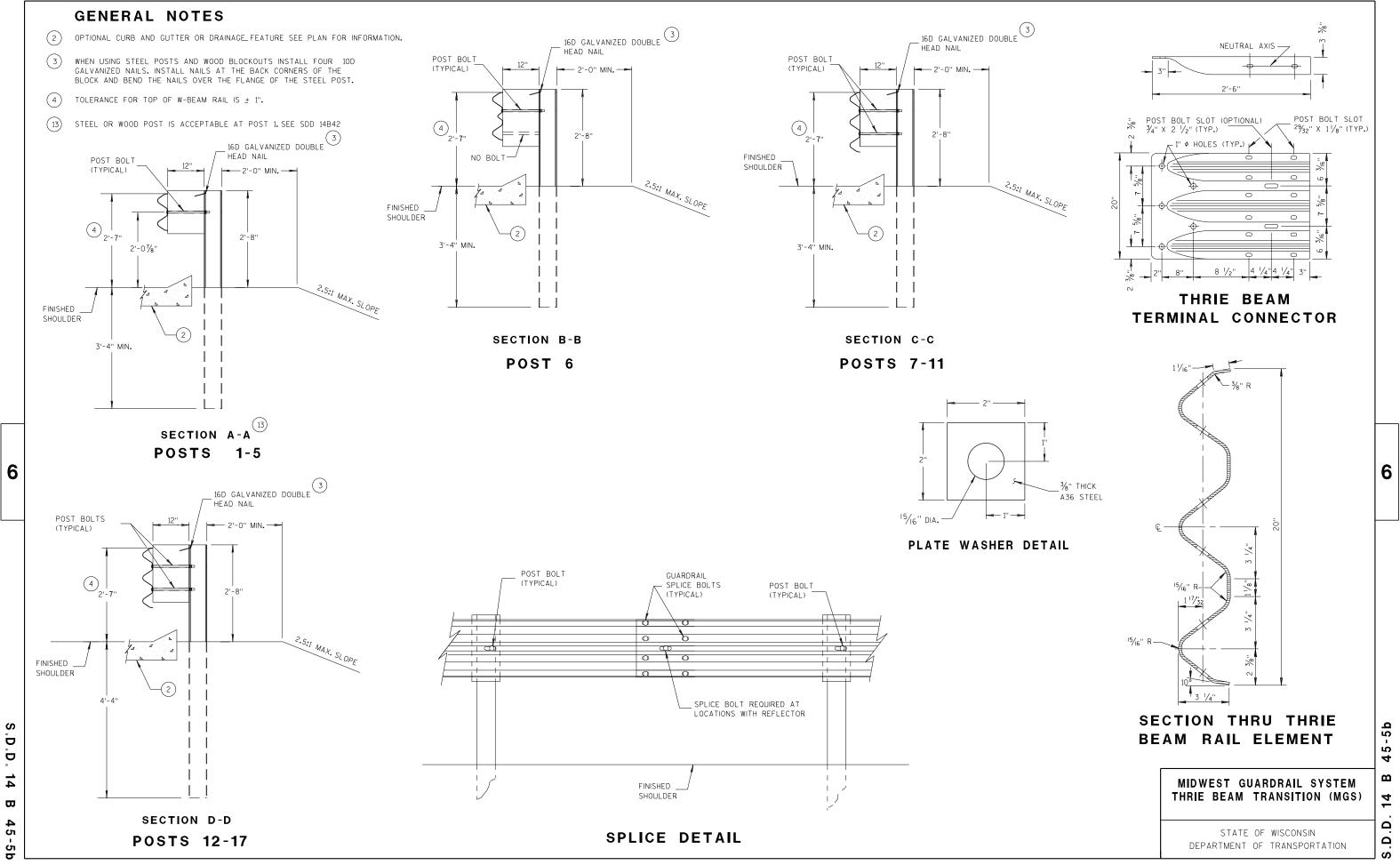
# MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



SDD 14B44 - 04c



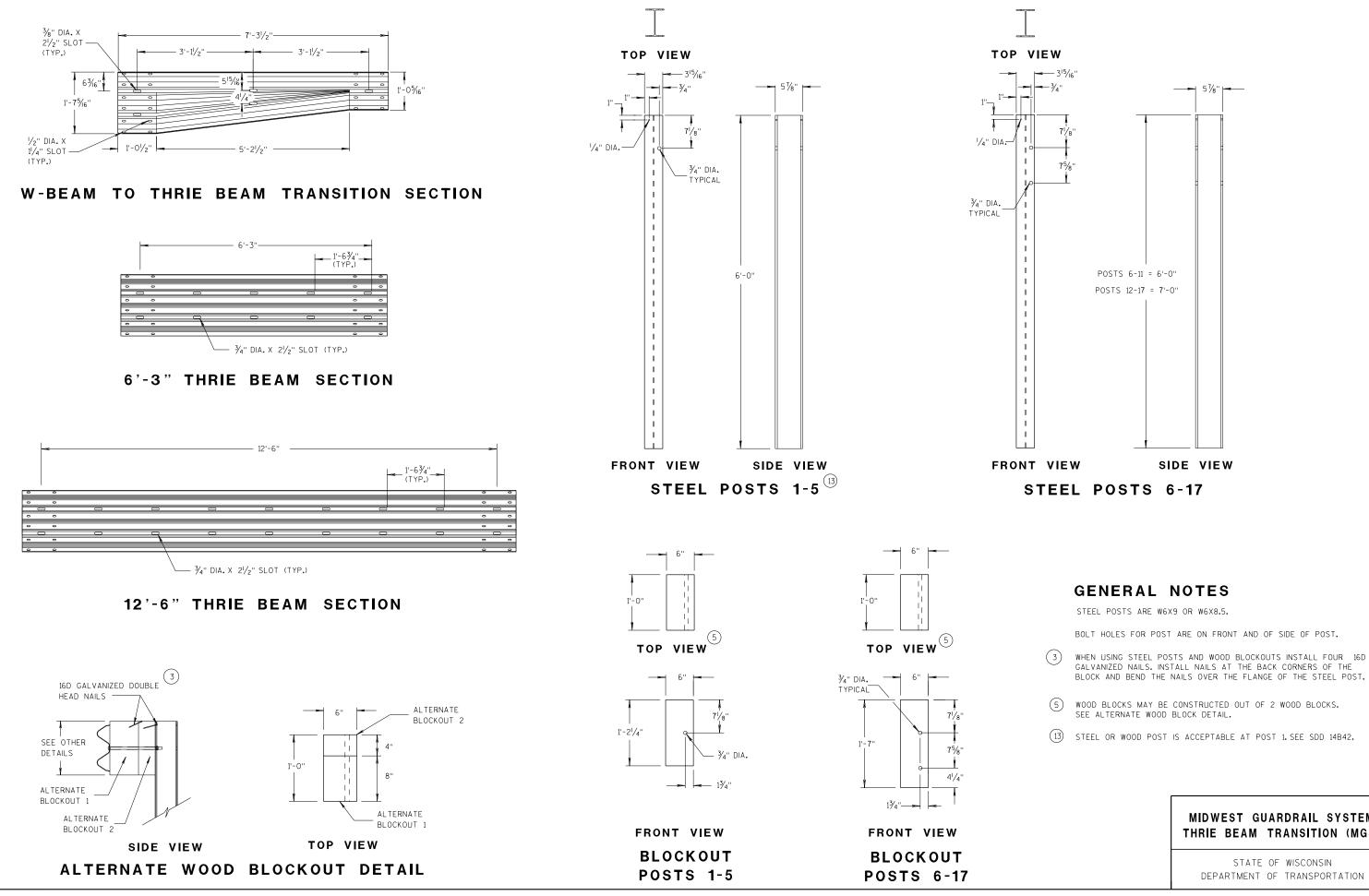


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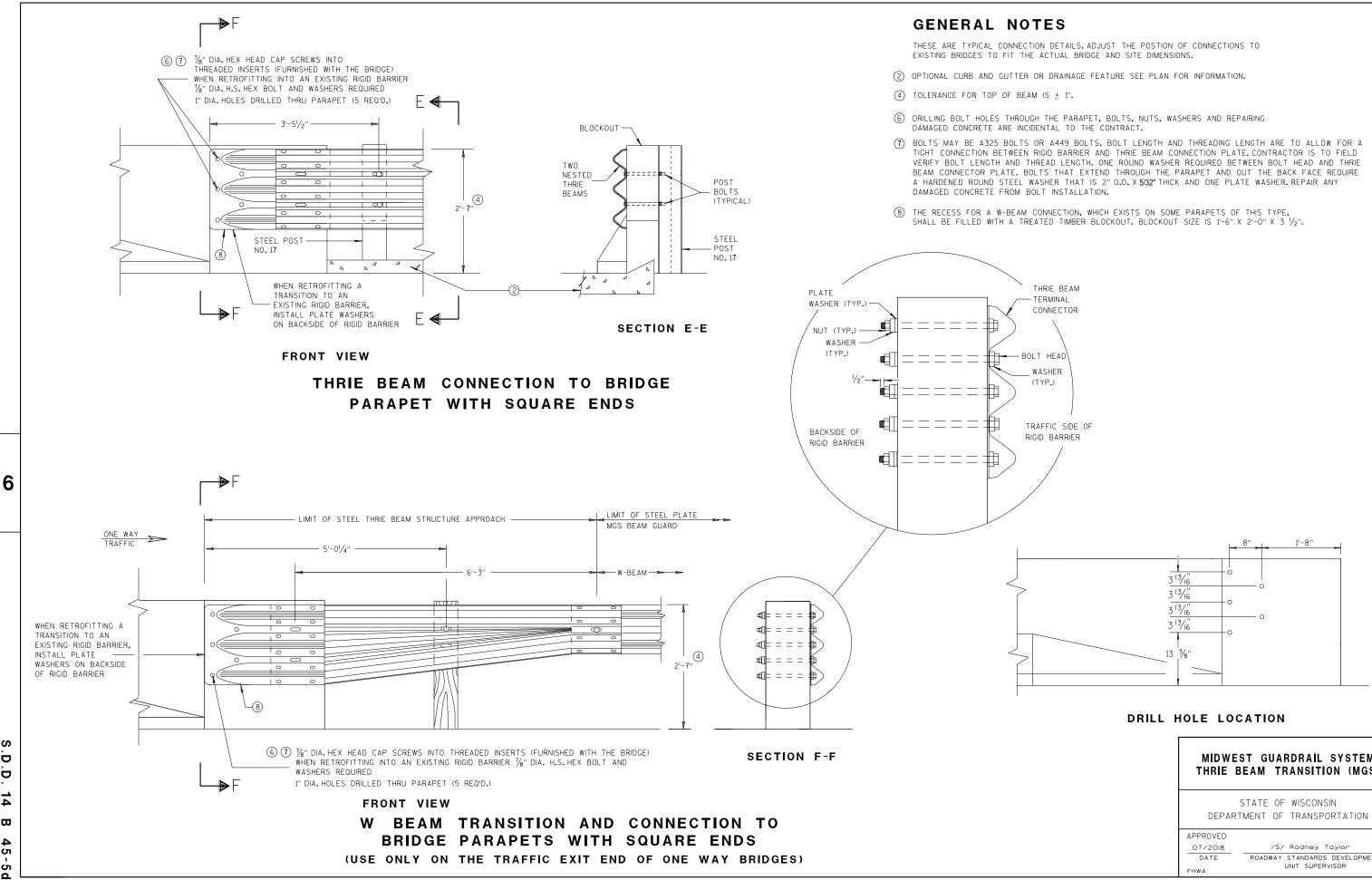
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### MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



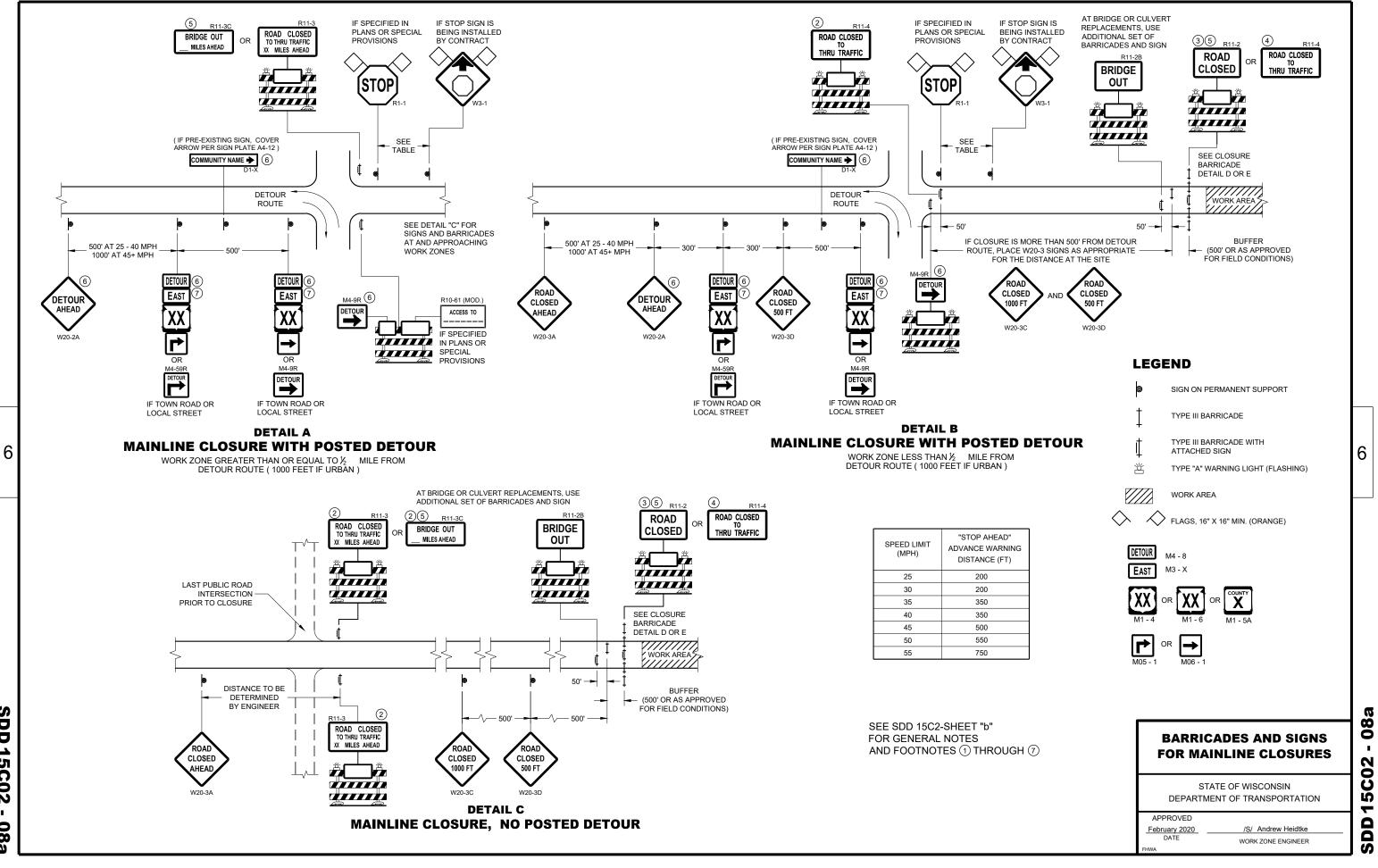
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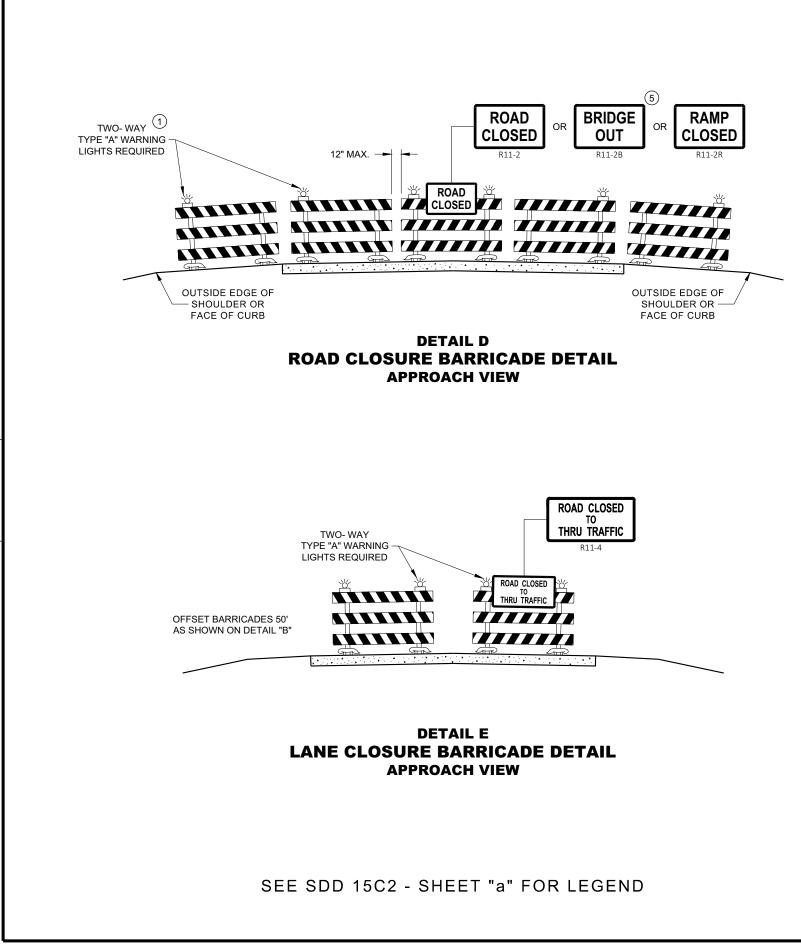
S

ES
DETAILS.ADJUST THE POSTION OF CONNECTIONS TO TUAL BRIDGE AND SITE DIMENSIONS.
DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
5 ± 1".
HE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING TAL TO THE CONTRACT.
A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A D BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD AD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE HER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY INSTALLATION.
NECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, D TIMBER BLOCKOUT, BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 $V_2$ ".
IE BEAM MINAL NECTOR HEAD HER ?.) FIC SIDE OF BARRIER

	ST GUARDRAIL SYSTEM EAM TRANSITION (MGS)	<u>л қ - қ л</u>
	STATE OF WISCONSIN MENT OF TRANSPORTATION	<b>1</b>
APPROVED 07/2018 DATE FHWA	/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR	

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FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

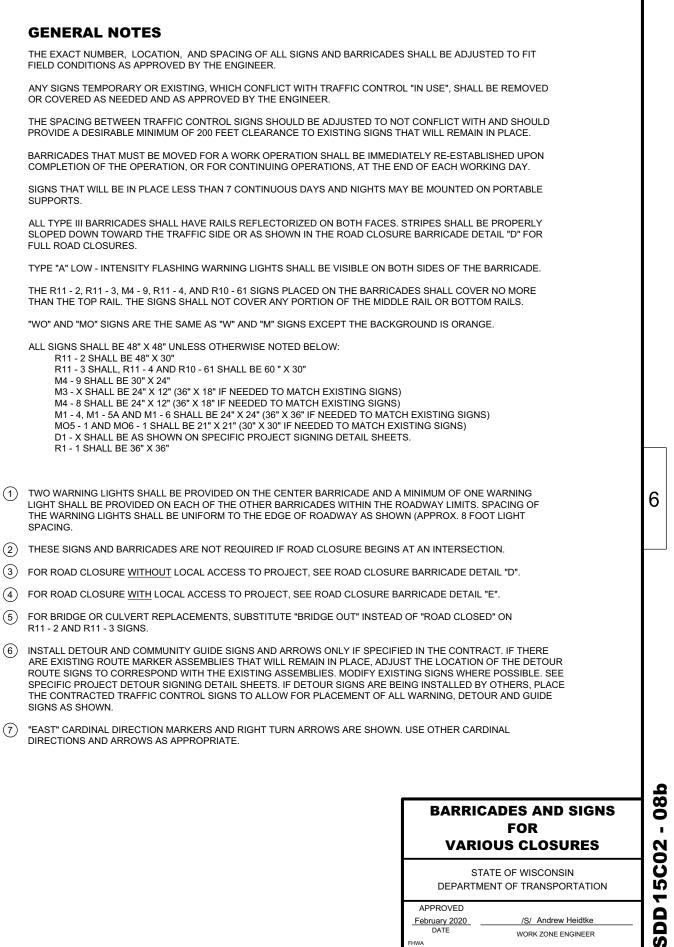
FULL ROAD CLOSURES.

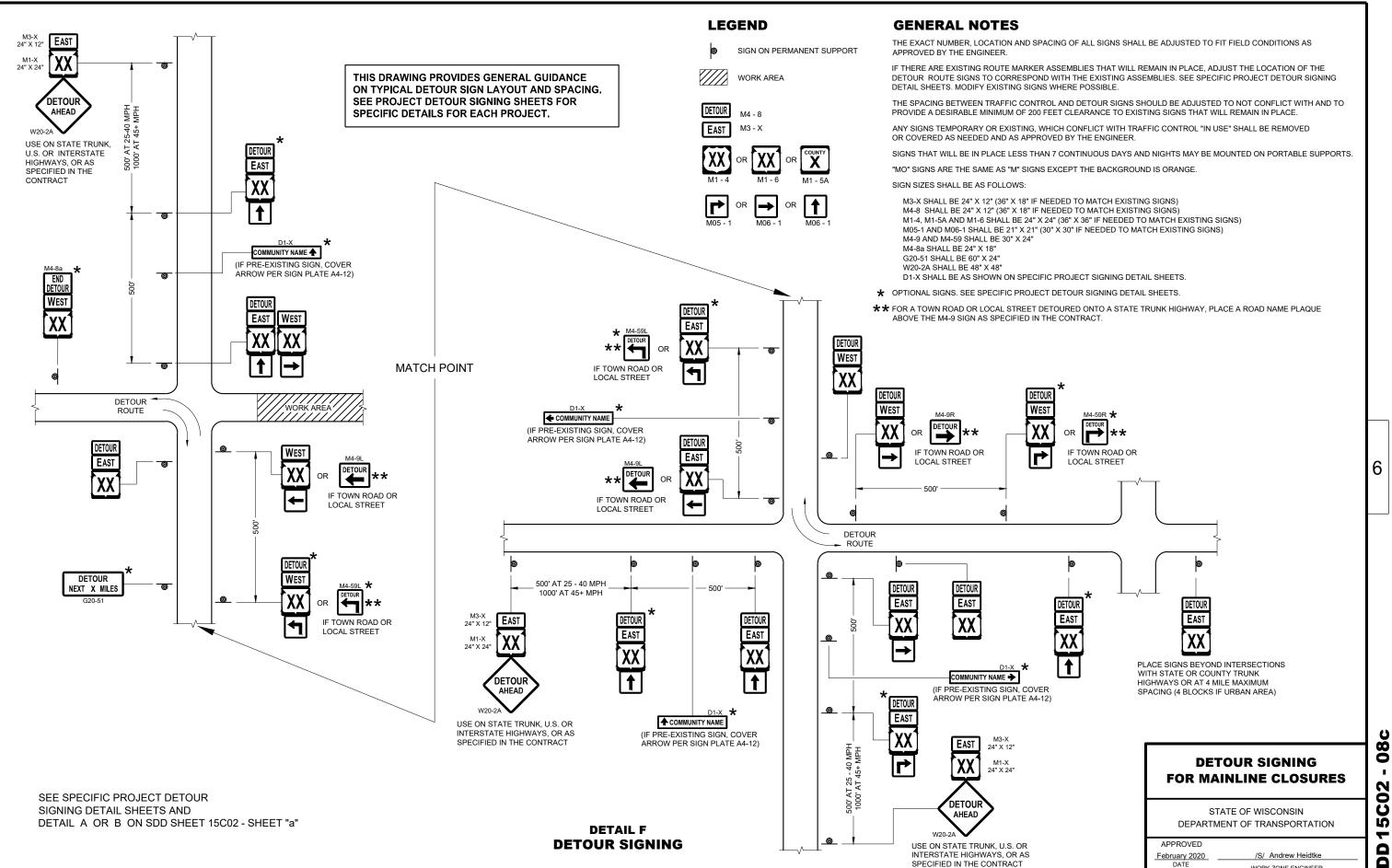
THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"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)

  - R1 1 SHALL BE 36" X 36"
- (1)TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (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 SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.





**SDD 15C02** 0 80

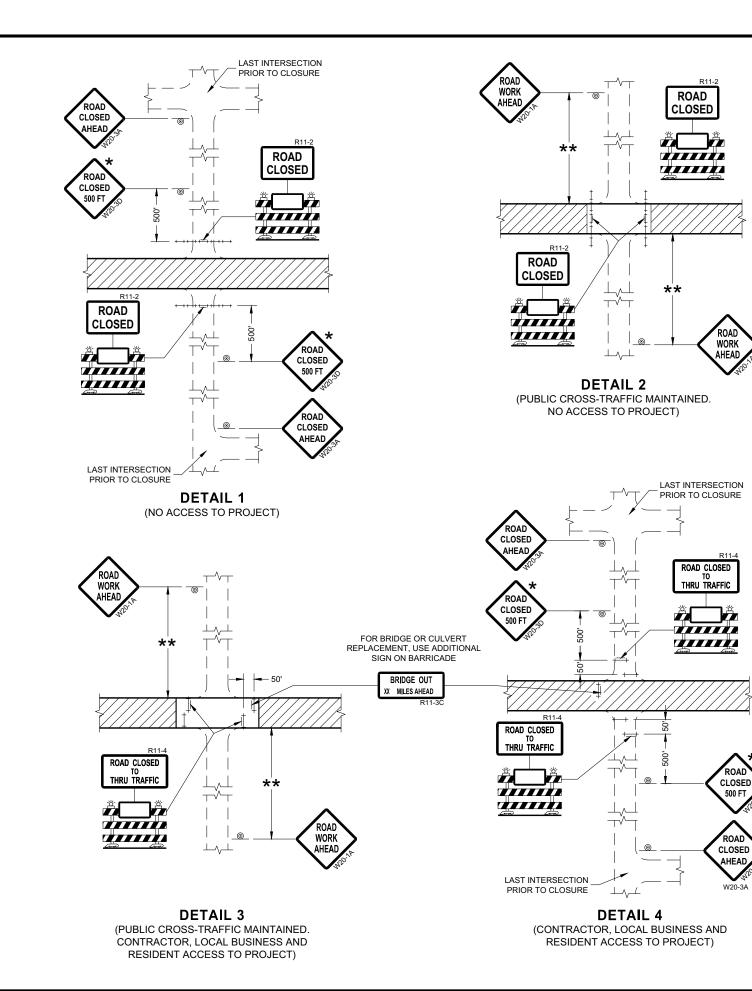
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February 2020 DATE

WORK ZONE ENGINEER

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AS APPROVED BY THE ENGINEER.

NEEDED AND AS APPROVED BY THE ENGINEER.

SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

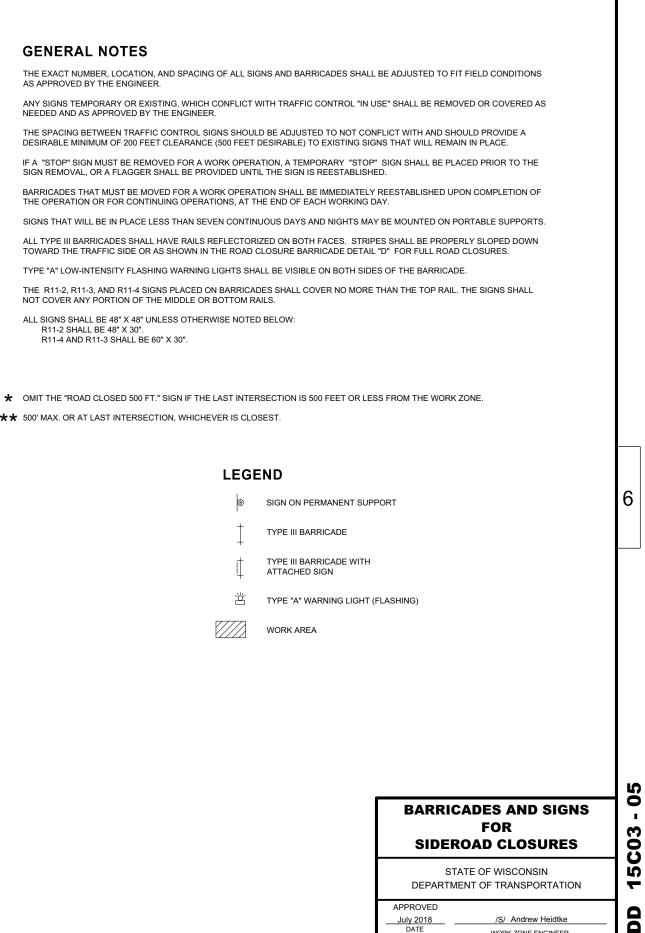
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11-2 SHALL BE 48" X 30". R11-4 AND R11-3 SHALL BE 60" X 30".

★★ 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.



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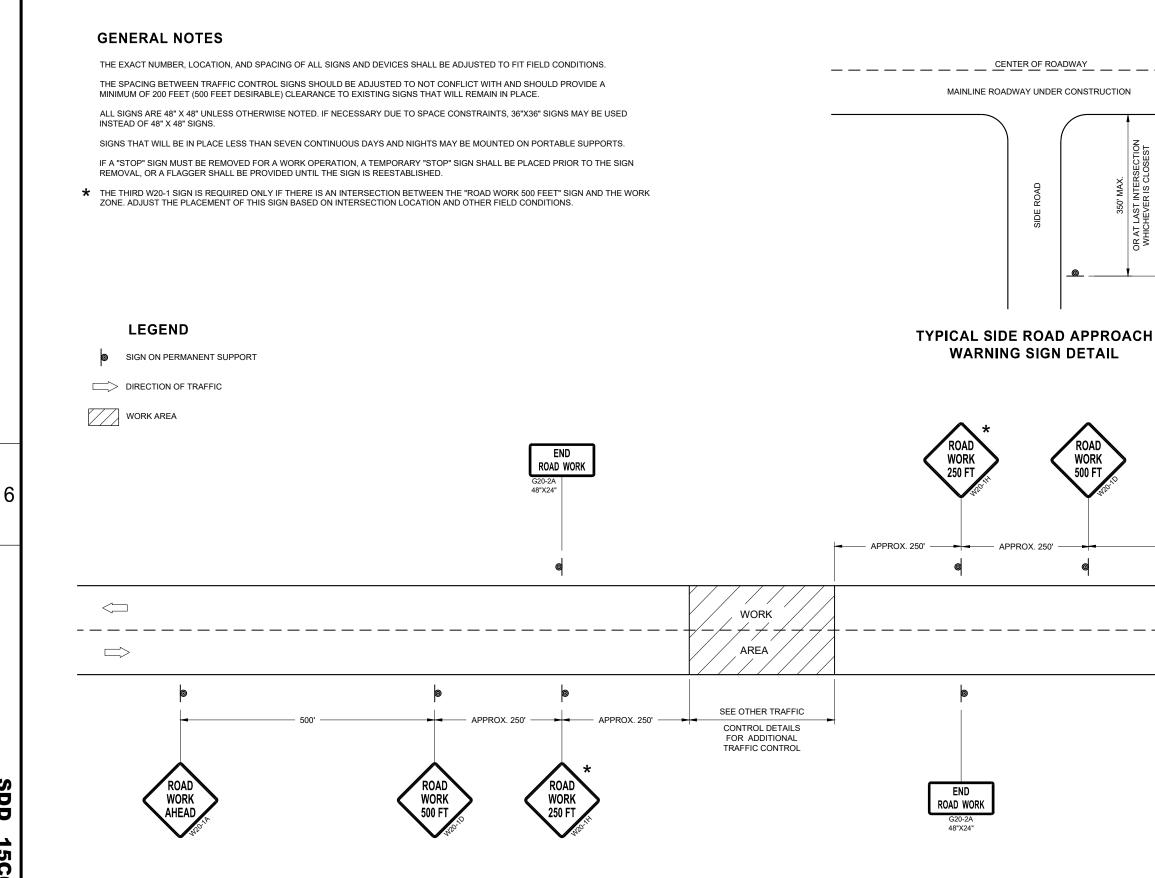
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WORK ZONE ENGINEER

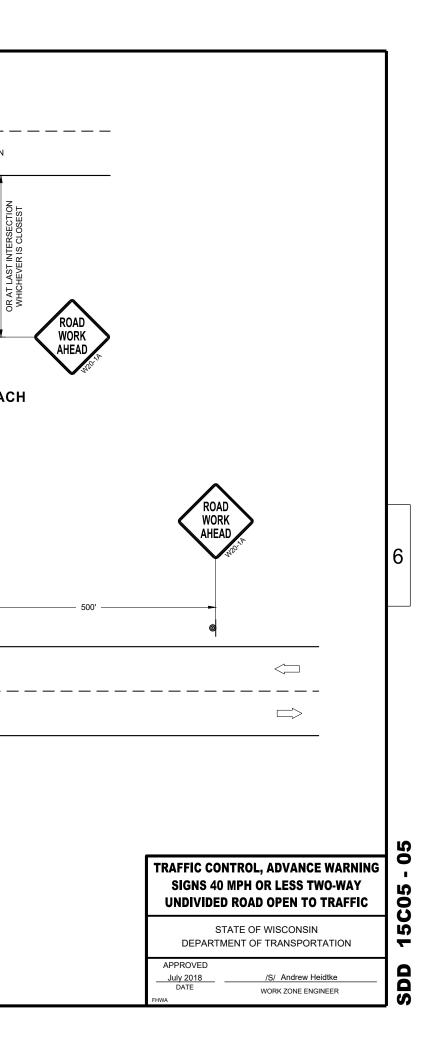
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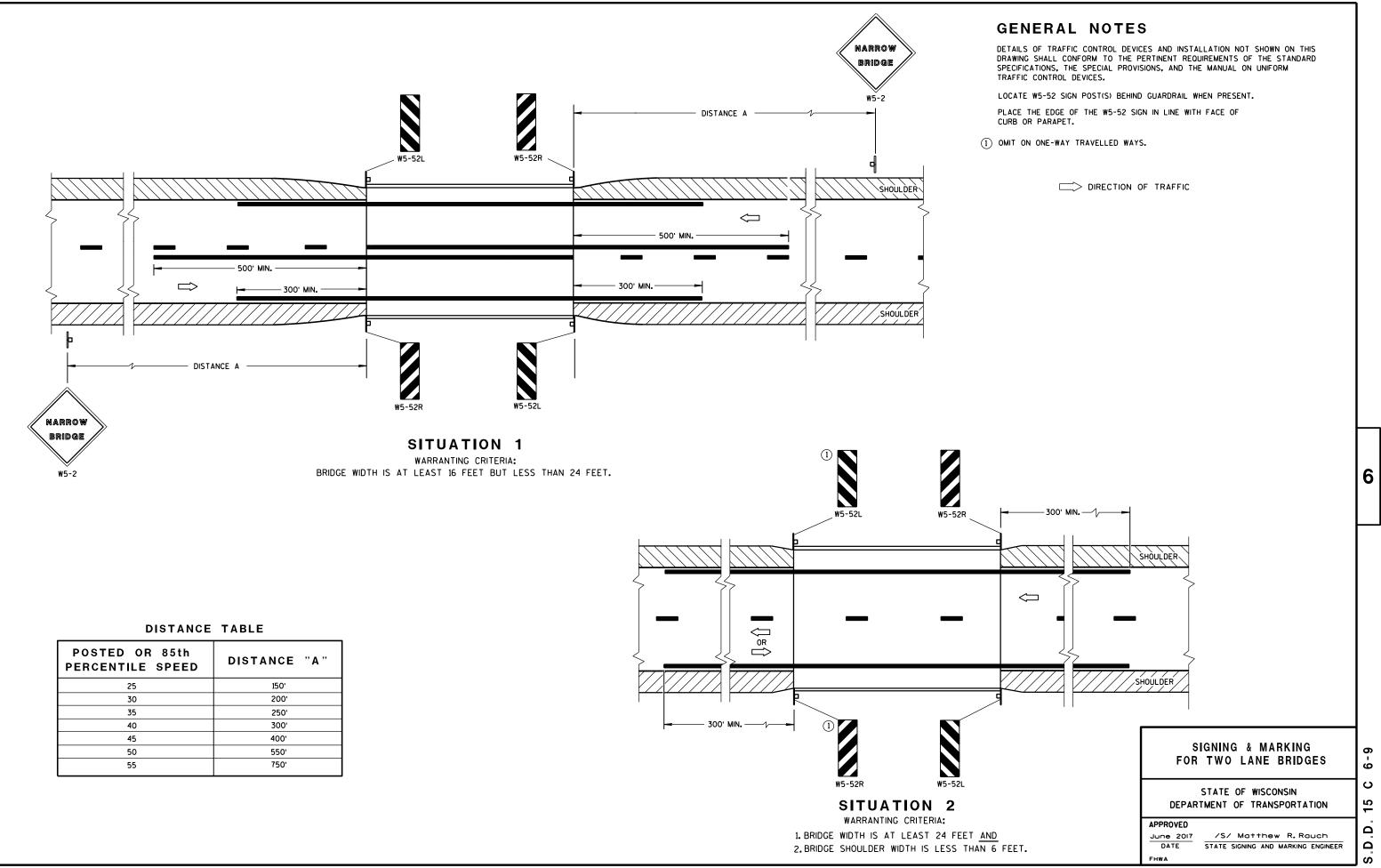
July 2018 DATE



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

**SDD 15C05 - 05** 



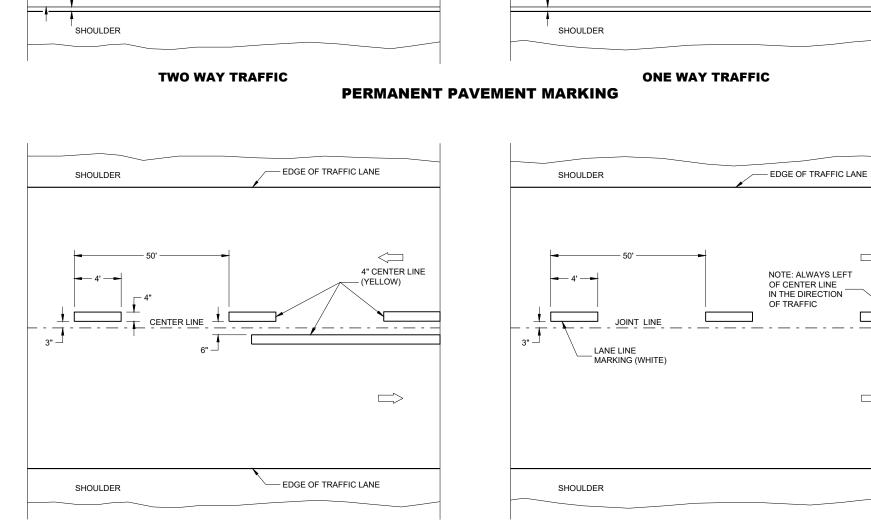


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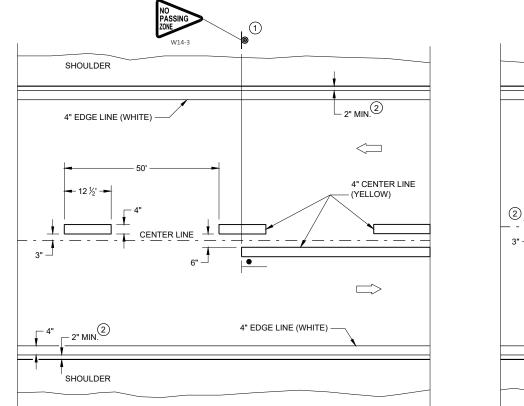
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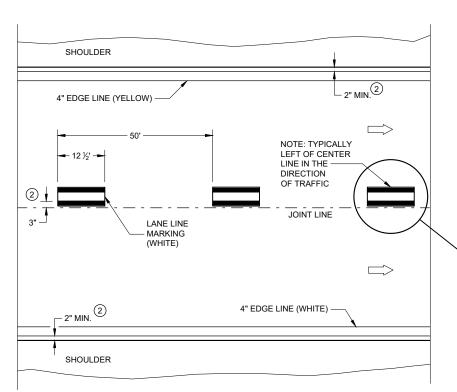




**TEMPORARY PAVEMENT MARKING** 

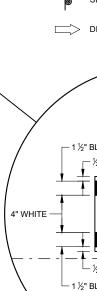


**TWO WAY TRAFFIC** 



**ONE WAY TRAFFIC** 





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# **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

" BLACK CONTRAST – ½" MAX. GROOVE		
_		
	JOINT LINE	/
' BLACK CONTRAST		

# LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

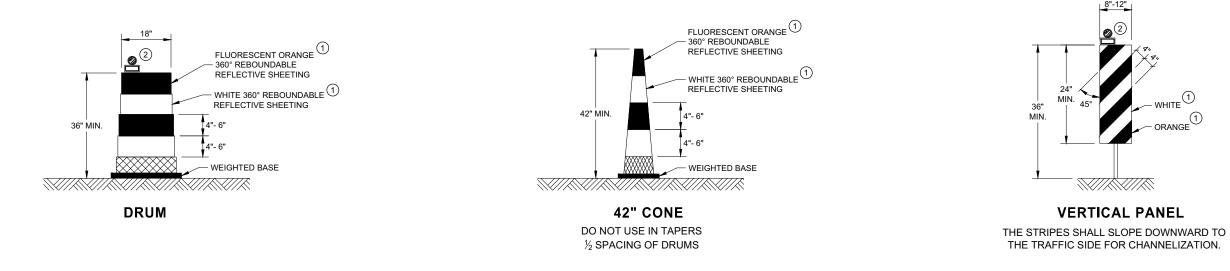
APPROVED February 2020 DATE

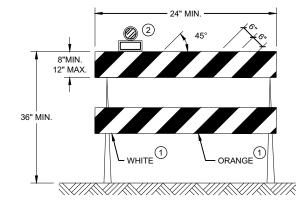
/S/ Matthew Rauch STATEWIDE SIGNING AND MARKING ENGINEER

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**SDD15C08 - 20** 

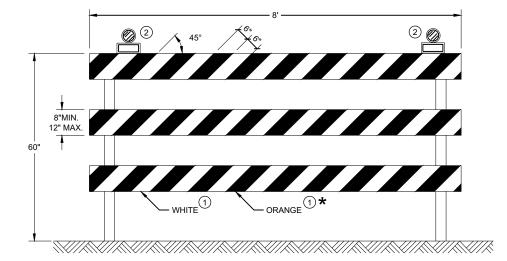
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





**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.

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

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# **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS**

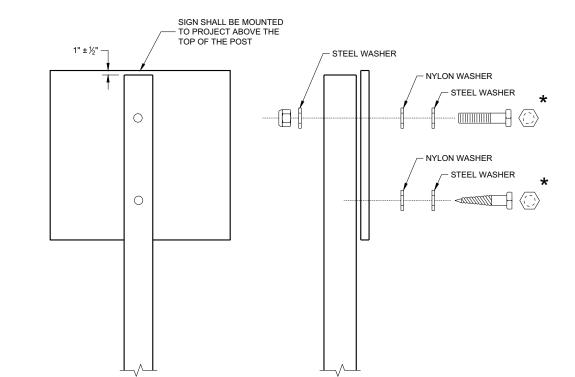
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2020 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

**SDD 15D38** н. **02b** 

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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.

WOOD POST (4" x 6") LAG SCREWS - 3/8" x 3" MACHINE BOLTS -  $\frac{5}{16}$ " x 6  $\frac{1}{2}$ " OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2") MACHINE BOLTS - 3/8" x 3 1/4" LENGTH W/NUTS RIVETS - <sup>9</sup>/<sub>32</sub>" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -1 ¼" O.D. x ¾" I.D. x ¼6" STEEL 1 ¼" O.D. x ¾" I.D. x 0.080 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

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# **ATTACHMENT OF SIGNS TO POSTS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED June 2017 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

# CREEK CLOSED AT COUNTY HHH

# 66" X 30"

### NOTES:

- 1. TRAFFIC CONTROL SIGNS FIXED MESSAGE TYPE F REFLECTIVE SHEETING
- 2. COLOR:

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- BACKGROUND ORANGE MESSAGE - BLACK
- 3. MESSAGE SERIES C
- 4. LETTER HEIGHT 6 INCHES

# HAZARD - BRIDGE WORK AHEAD

36'' X 18''

### NOTES:

- 1. TRAFFIC CONTROL SIGN TYPE F REFLECTIVE SHEETING
- 2. COLOR:
  - BACKGROUND ORANGE
- MESSAGE BLACK
- 3. MESSAGE SERIES C
- 4. LETTER HEIGHT 3 INCHES

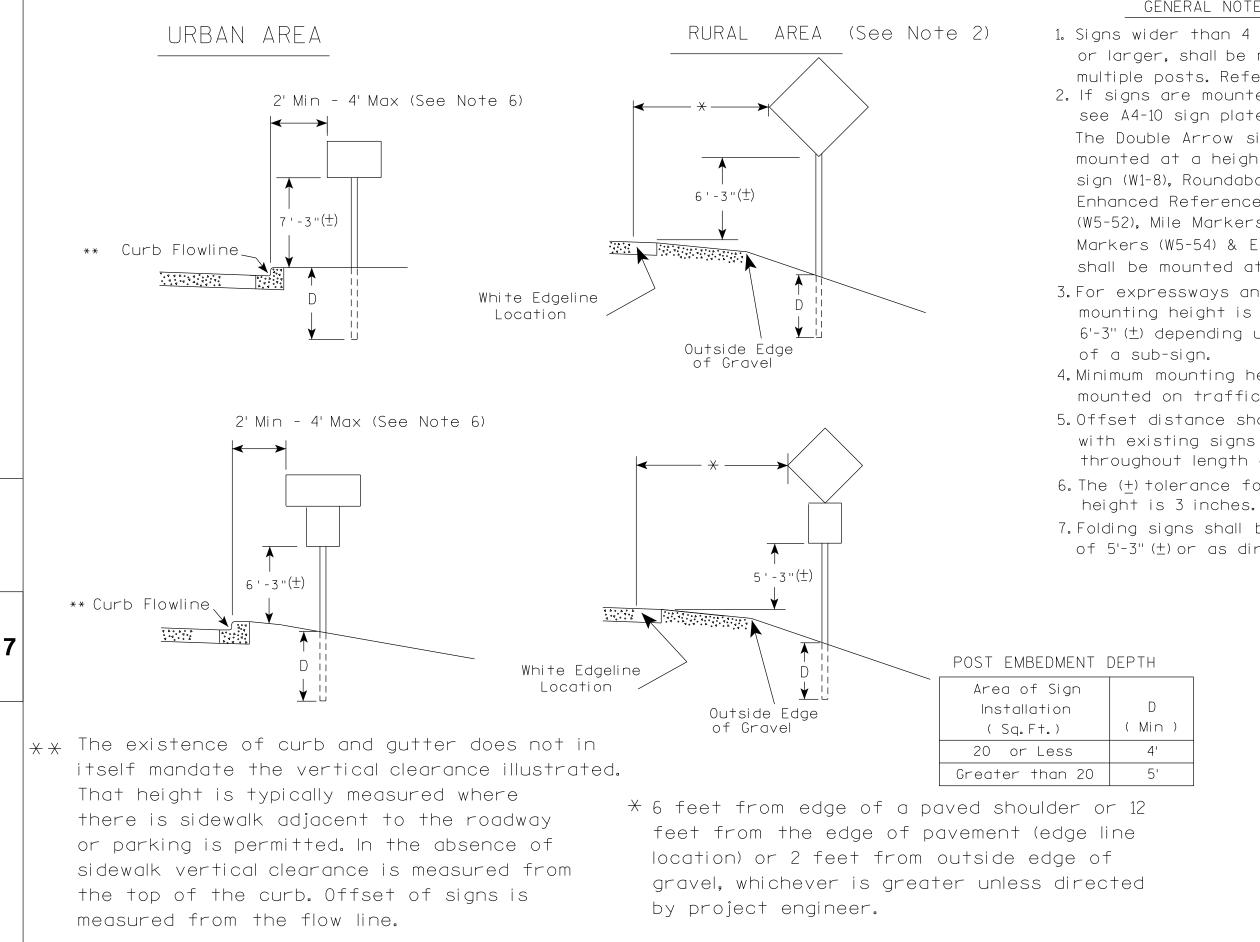
PROJECT NO: 9318-02-70	HWY:CTH HHH	HHH COUNTY: SHAWANO		
FILE NAME : S:\MAD\15001599\1563\001\Drawings\CAD\MICROS\PLAN\070101_sd.dgn		PLOT DATE : 7/27/2021	PLOT BY : _username_	PLOT NAME :



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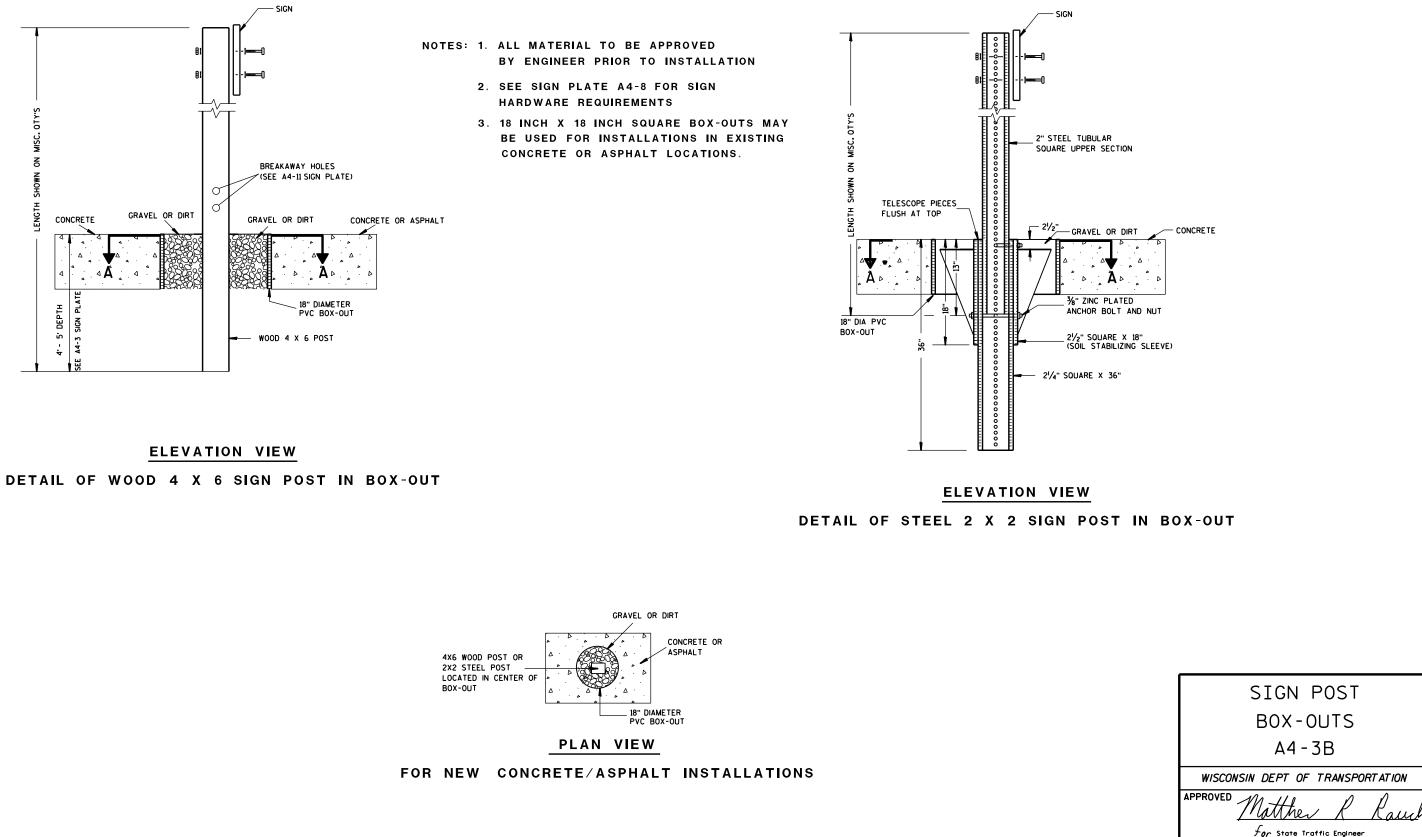
### SHEET

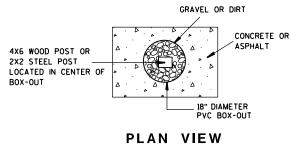


PROJECT NO:	HWY:	COUNTY:			
			DUAT DATE AT MAN AND A A	A DI OT DY O	DLOT NAME -

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 sian plate. The Double Arrow sign (W12-1D) shall be mounted at a height of  $2'-3''(\pm)$ . 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'' (+). 3. For expressways and freeways, mounting height is 7'- 3" ( $\pm$ ) or  $6'-3''(\pm)$  depending upon existence 4. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' (+). 5. Offset distance shall be consistent with existing signs or consistent throughout length of project. 6. The (+) tolerance for mounting 7. Folding signs shall be mounted at a height of 5'-3"  $(\pm)$  or as directd by the Engineer.

)	
	TYPICAL INSTALLATION
	OF PERMANENT TYPE II
	SIGNS ON SINGLE POSTS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthew & Rauch For state Traffic Engineer
	DATE <u>5/13/202</u> 0 PLATE NO. <u>A4-3.22</u>
	SHEET NO: E
PLOT SCALE : \$\$	WISDOT/CADDS SHEET 42





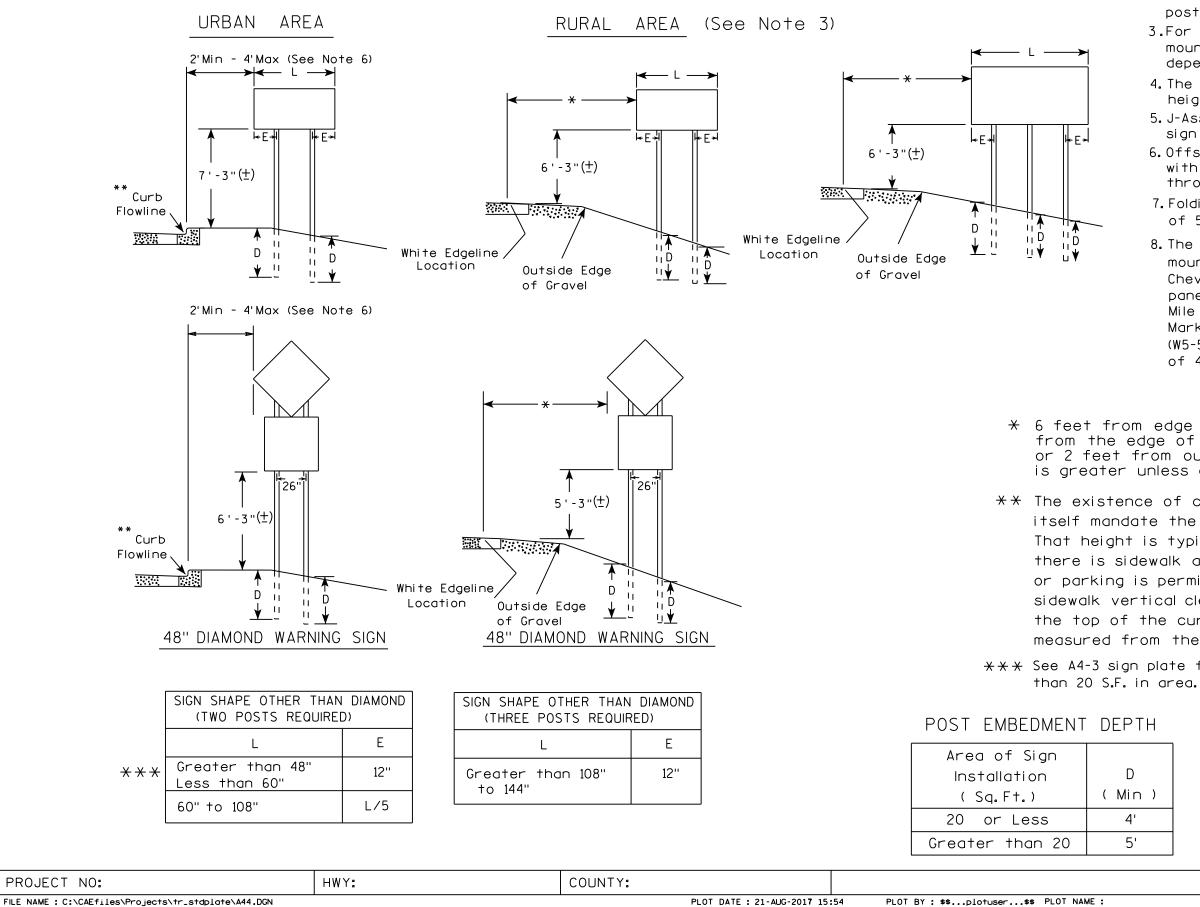
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

DATE <u>1/27/14</u>

SHEET NO:

PLATE NO. <u>A4-3B.1</u>

Ε



FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A44.DGN

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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  $7'-3''(\pm)$  or  $6'-3''(\pm)$ 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"  $(\pm)$  or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-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" (±).

\* 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.

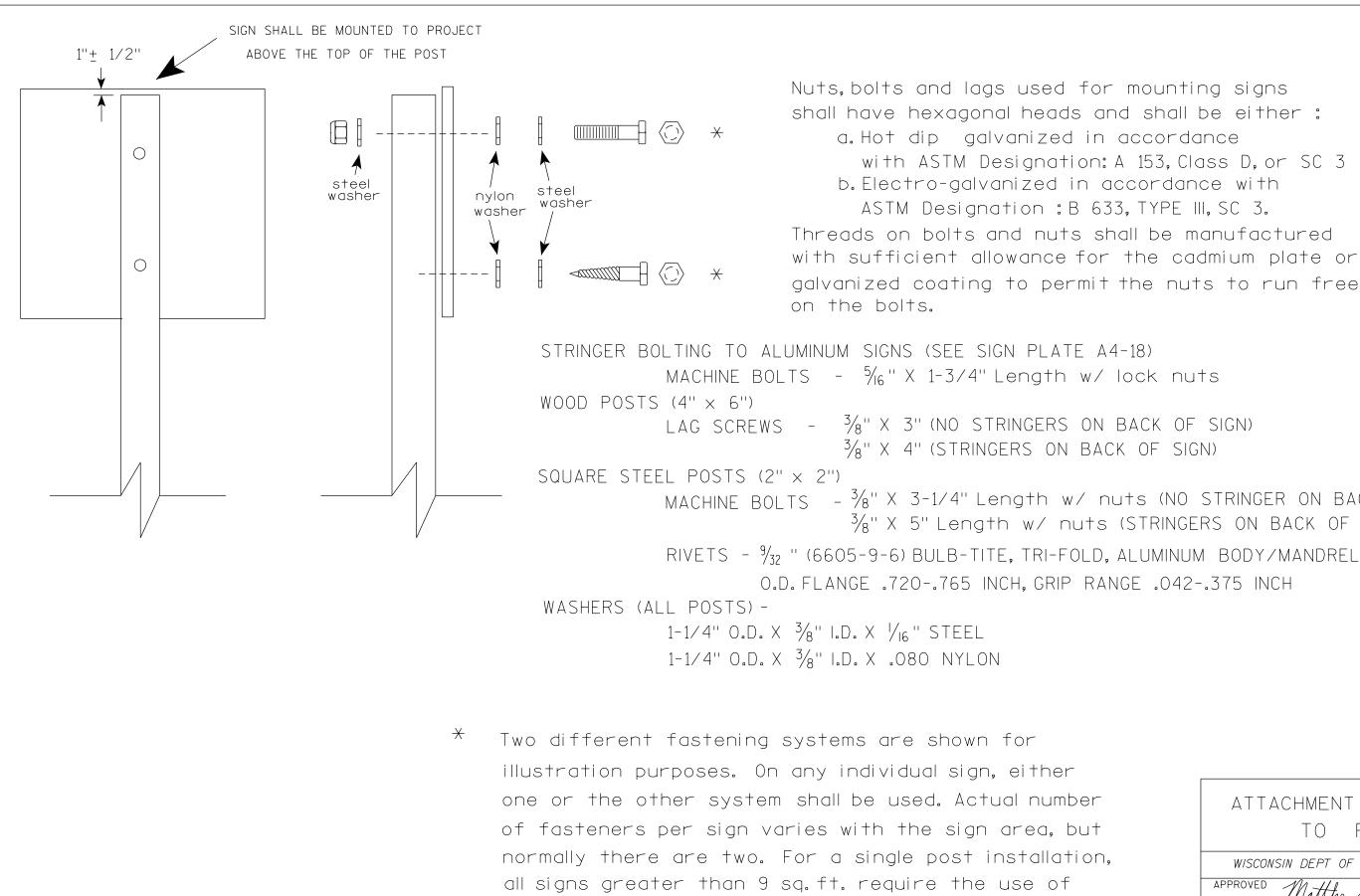
\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of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

 $\times$   $\times$  See A4-3 sign plate for signs 4' or less in width and less

H	TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS
)	WISCONSIN DEPT OF TRANSPORTATION
,	APPROVED Matther & Rauch
	For State Traffic Engineer
	DATE 8/21/17 PLATE NO. 44-4.15
	SHEET NO: E
DI AT. CA	N F + 100 100007+1 00000

PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



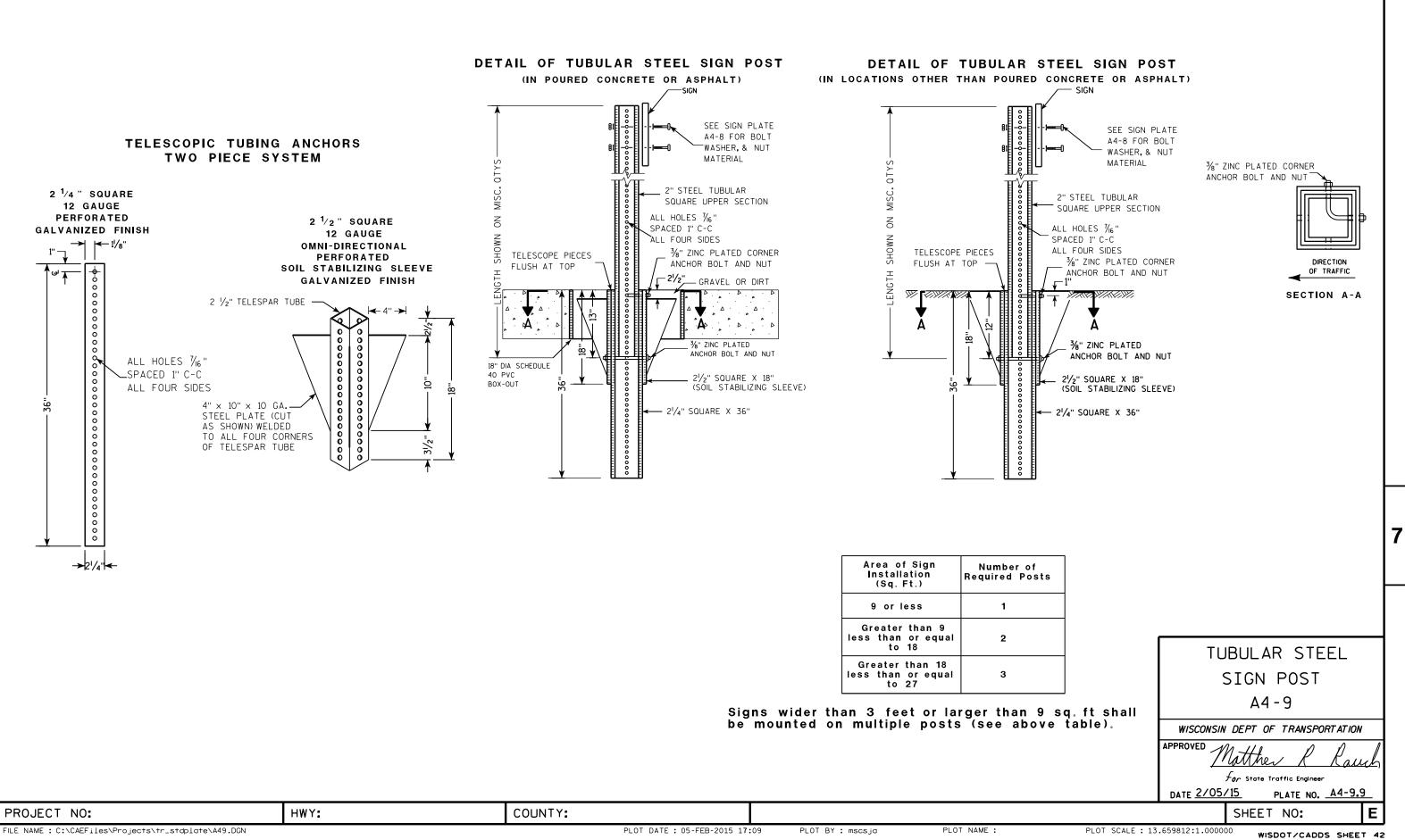
3 fasteners.

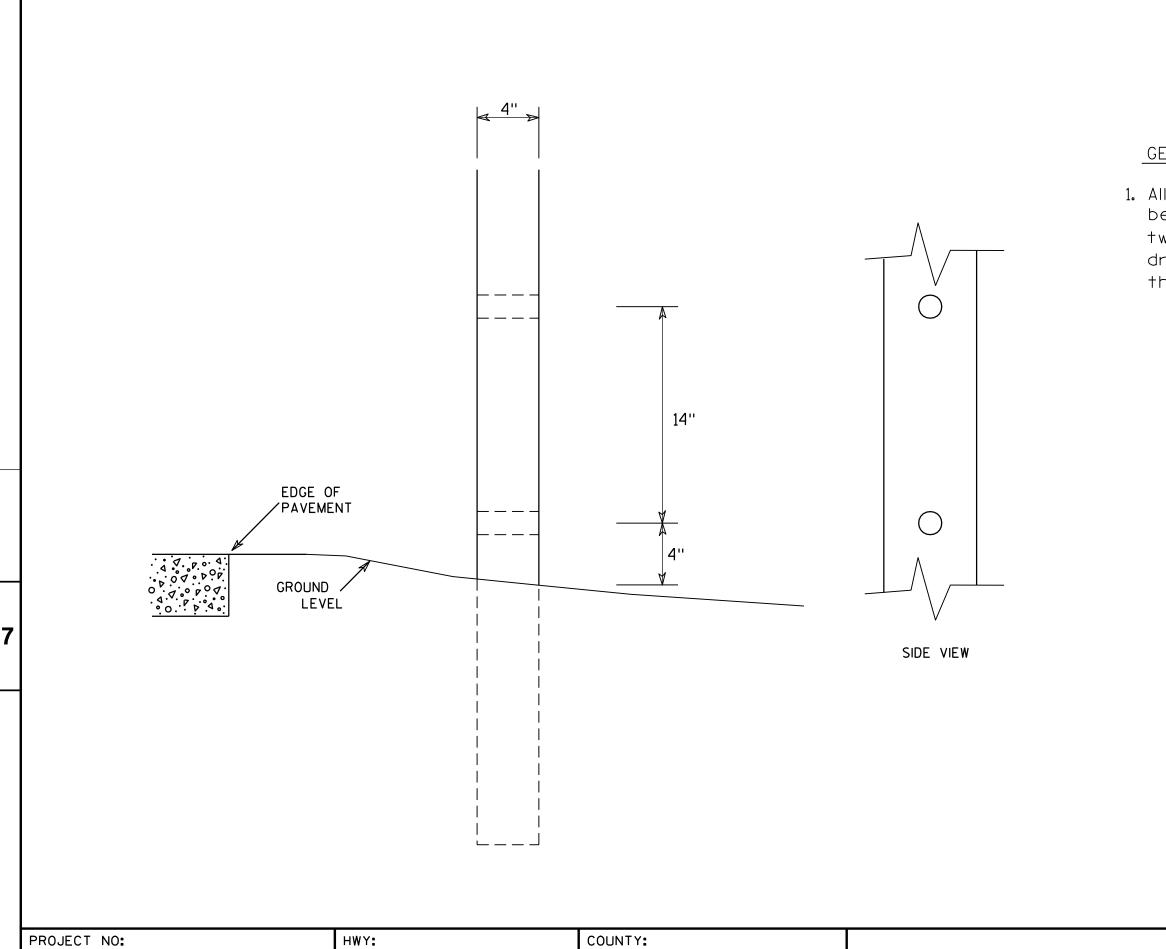
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely

 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)

MACHINE BOLTS - <sup>3</sup>/<sub>8</sub>" 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)

ATTACHMENT OF SIGNS TO POSTS
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
<i>+or</i> State Traffic Engineer
DATE <u>4/1/202</u> 0 plate no. <u>44-8.9</u>
SHEET NO: E



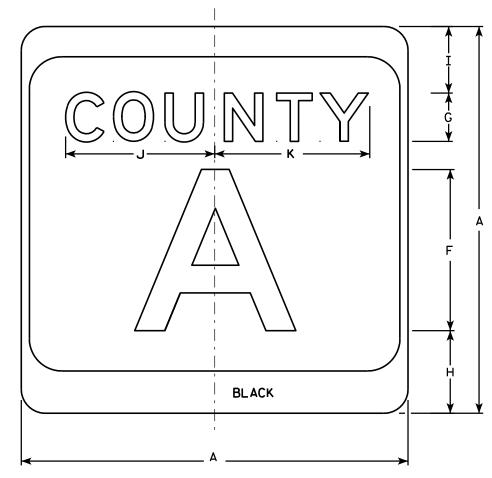


FILE NAME : C:\Users\Projects\tr\_stdplate\A411.DGN

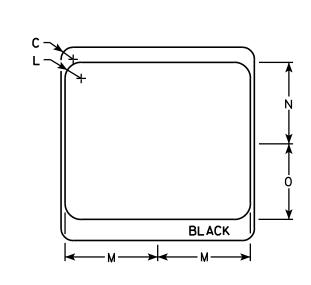
# GENERAL NOTES

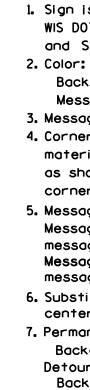
1. All 4 x 6 Wood Posts shall be modified by having two  $1\frac{1}{2}$ " diameter holes drilled perpendicular to the roadway centerline.

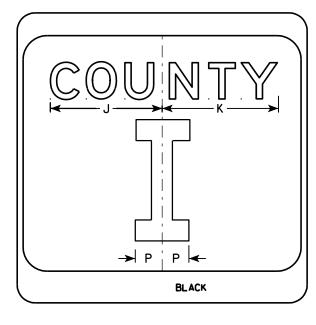
	4	Хe	6	WOO	DF	POST	
		MOD	IF	FICA	ΤI	ONS	
	WISC	onsin l	DEF	PT OF T	RANS	PORT AT IO	N
	APPROVE	D		nester .	Γź	Spang	
			tor	State Tr	affic E	ngineer	
	DATE 3	/27/9	<u>17</u>	PLA	TE N	D. <u>44-11</u>	2
				SHEET	N0:		E
OT SCALE	E:6.20 <b>7</b> 33	8:1.0000	000	WISD	от/с	ADDS SHE	ET 42

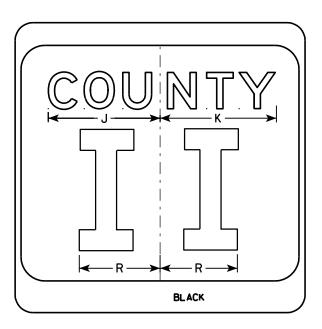












SIZE	Α	В	С	D	E	F	G	н	I	J	ĸ	L	м	N	0	Р	0	R	S	Т	U	v	W	X	Y	
1																										Γ
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8								
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1⁄4	12 7/8	3	17 1/8	15 1⁄4	14	3 3/8		10								
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1⁄4	12 7/8	3	17 1/8	15 1⁄4	14	3 3/8		10								
5	36		2 1/4			16	4	7 5/8	5 5%	12 1⁄4	12 7/8	3	17 1/8	15 1⁄4	14	3 3/8		10								
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FILE N	AME : C:	\Users\P	ROJECTS\+	r_stdpla	†e∖M15A.[	)GN										PLOT DATE	E : 29-SE	EP-2011 11	1:25	PLOT	BY : mscs	sja		PLOT NAME	ε:	

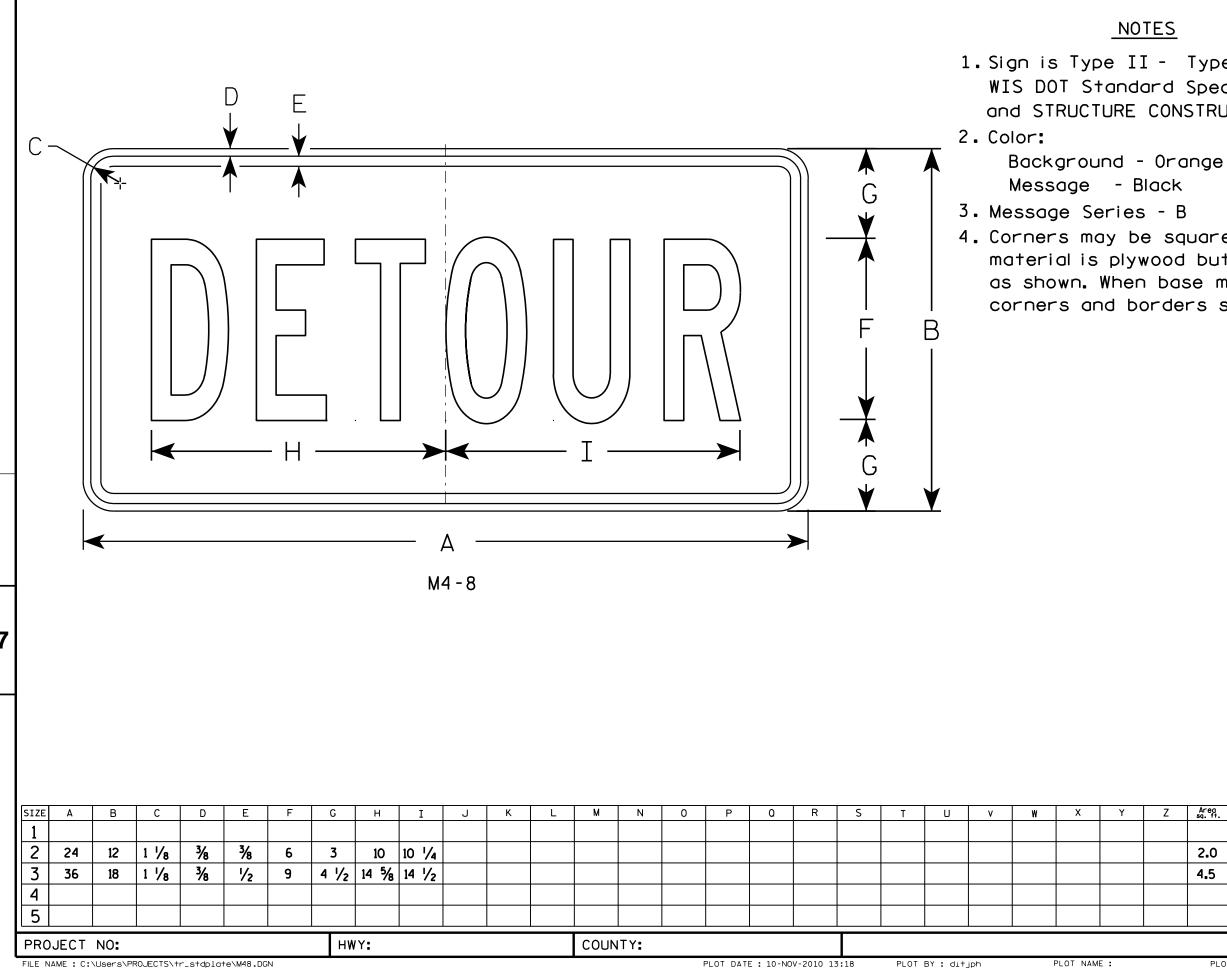
7

PLOT DATE : 29-SEP-2011 11:25

# NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. Background - White & Black - See Note 7 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. Message Series E for 1 letter. Message Series D for 2 letters unless message is too big then Series C. Message Series C for 3 letters unless message is too big then Series B. 6. Substitute appropriate letters & optically center to achieve proper balance. 7. Permanent Signs Background - Type H Reflective Detour or temporary Signs Background - Reflective

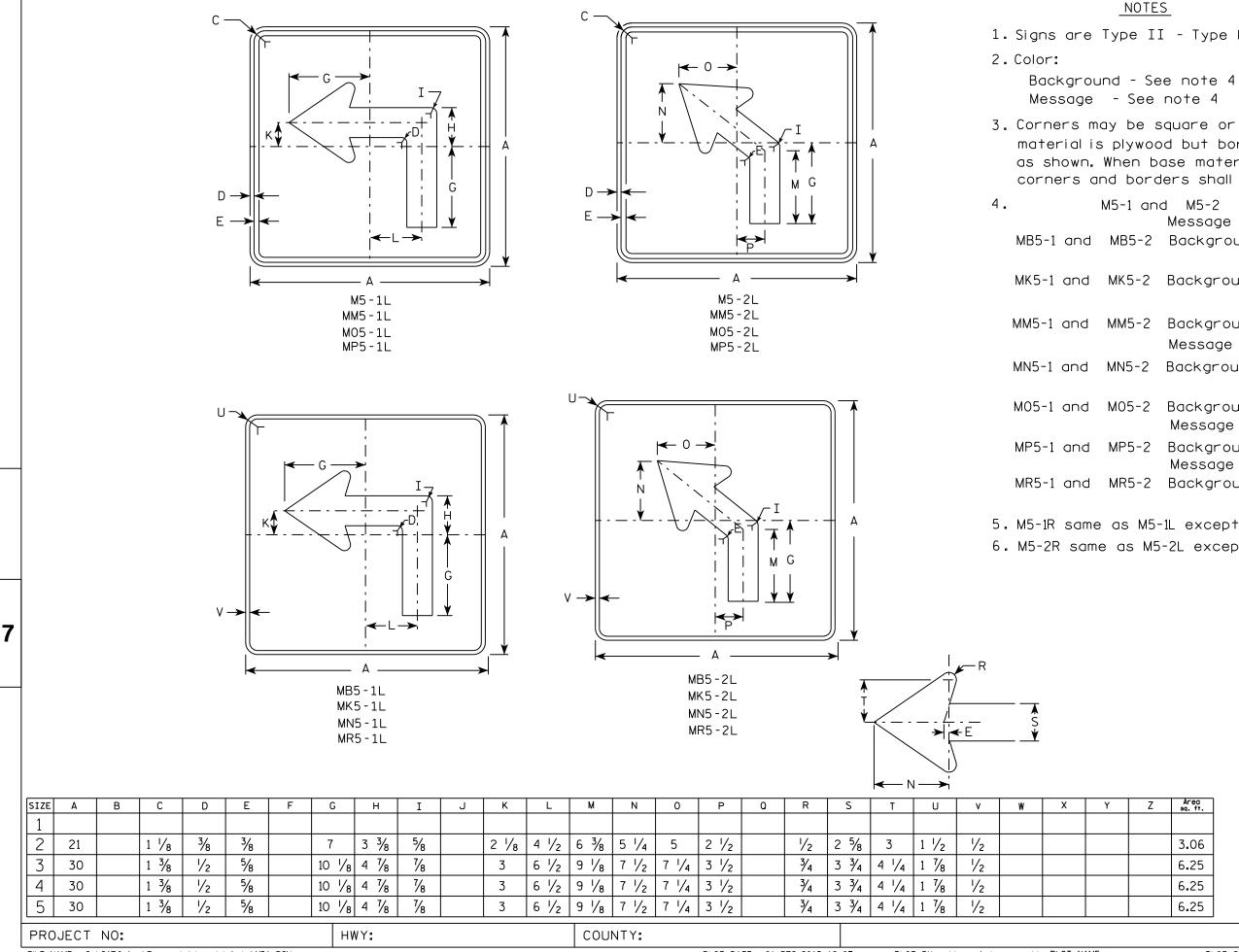
Z	Area sq. ft.		CTH N	MARKER		
		M1-5	A FOR	ASSEMBL	IES	5
	4.0	WISCONS	SIN DEPT C	F TRANSPORT	ATION	1
	9.0	APPROVED	M-II		2	/
	9.0			her R R	and	ý
	9.0	DATE 9/2		PLATE NO. MI	-54.8	<u> </u>
			SHEET	N0:		Ε
	DI OT	47.1 000000	\			



1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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.

Z Areo sq. ff.	STANDARD SIGN
<u> </u>	M4 - 8
2.0	WISCONSIN DEPT OF TRANSPORTATION
4.5	APPROVED Matther R Rauch
	For State Traffic Engineer DATE <u>11/10/10</u> PLATE NO. <u>M4-8.2</u>
	SHEET NO: E
PLOT SCALE : 4	767233:1.000000 WISDOT/CADDS SHEET 42



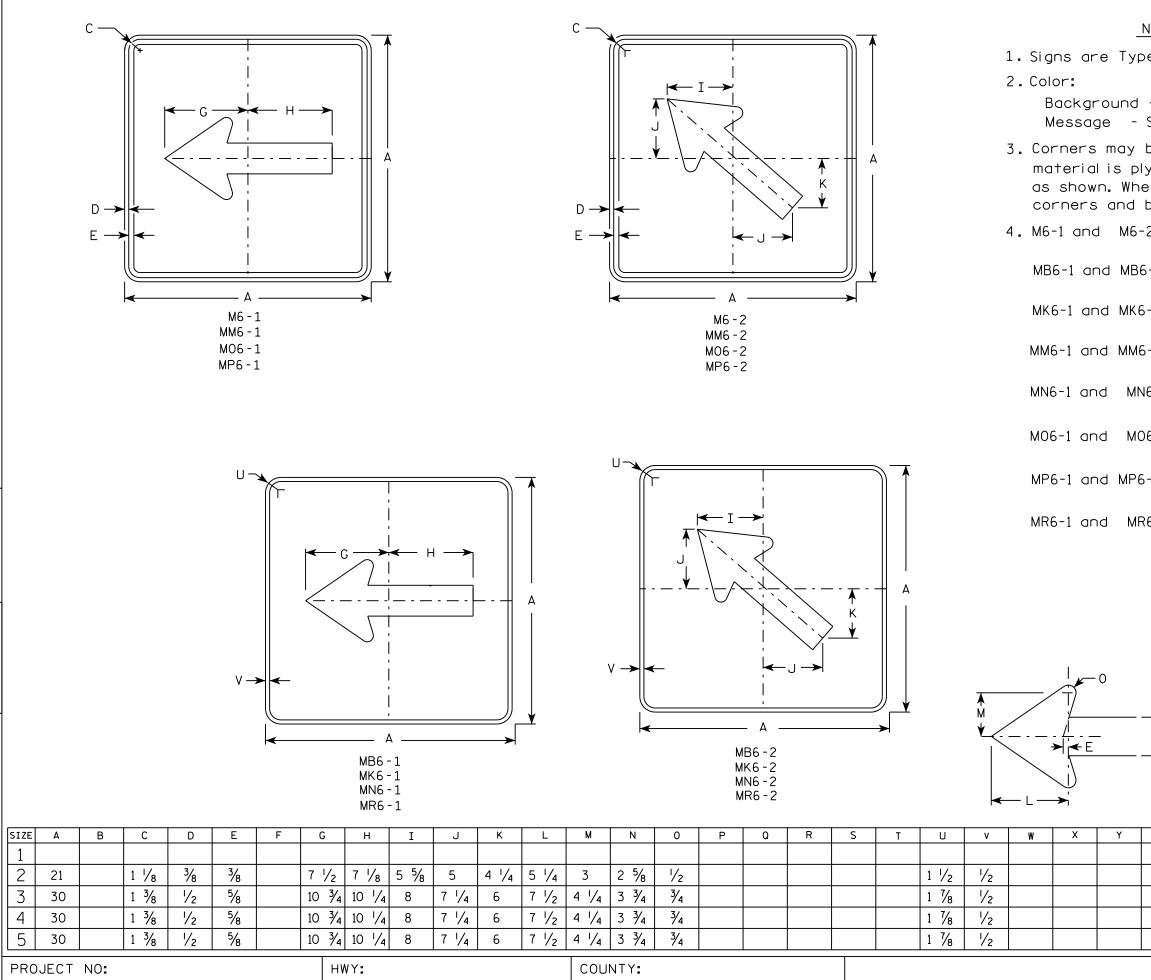
FILE NAME . C.\CAEfiles\Projects\tr\_stdplate\M51 DGN

PLOT DATE . 01-DEC-2015 18.07

PLOT BY . \$\$ DIOTUSER \$\$ PLOT NAME :

```
NOTES
1. Signs are Type II - Type H reflective except as shown
3. 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.
            M5-1 and M5-2
                             Background - White
                    Message - Black
  MB5-1 and MB5-2 Background - Blue
                              Message - White
  MK5-1 and MK5-2 Background - Green
                             Message - White
  MM5-1 and MM5-2 Background - White
                    Message - Green
  MN5-1 and MN5-2 Background - Brown
                             Message - White
  M05-1 and M05-2 Background - Orange - Type F Reflective
                    Message - Black
  MP5-1 and MP5-2 Background - White - Type H Reflective
                    Message - Blue
  MR5-1 and MR5-2 Background - Brown
                             Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.
```

	Aree	STANDARD SIGN	
Z	Area sq. ft.	M5-1 & M5-2	
	3.06	WISCONSIN DEPT OF TRANSPORTATION	
	6.25	APPROVED Matthew & Rauch	
	C 05	T'un March Rallich	-
	6 <b>.</b> 25	for State Traffic Engineer	
	6.25	DATE 10/15/15 PLATE NO. M5-1.13	_
		SHEET NO:	Ε



FILE NAME · C·\CAEfiles\Projects\tr\_stdplate\M61\_DCN

7

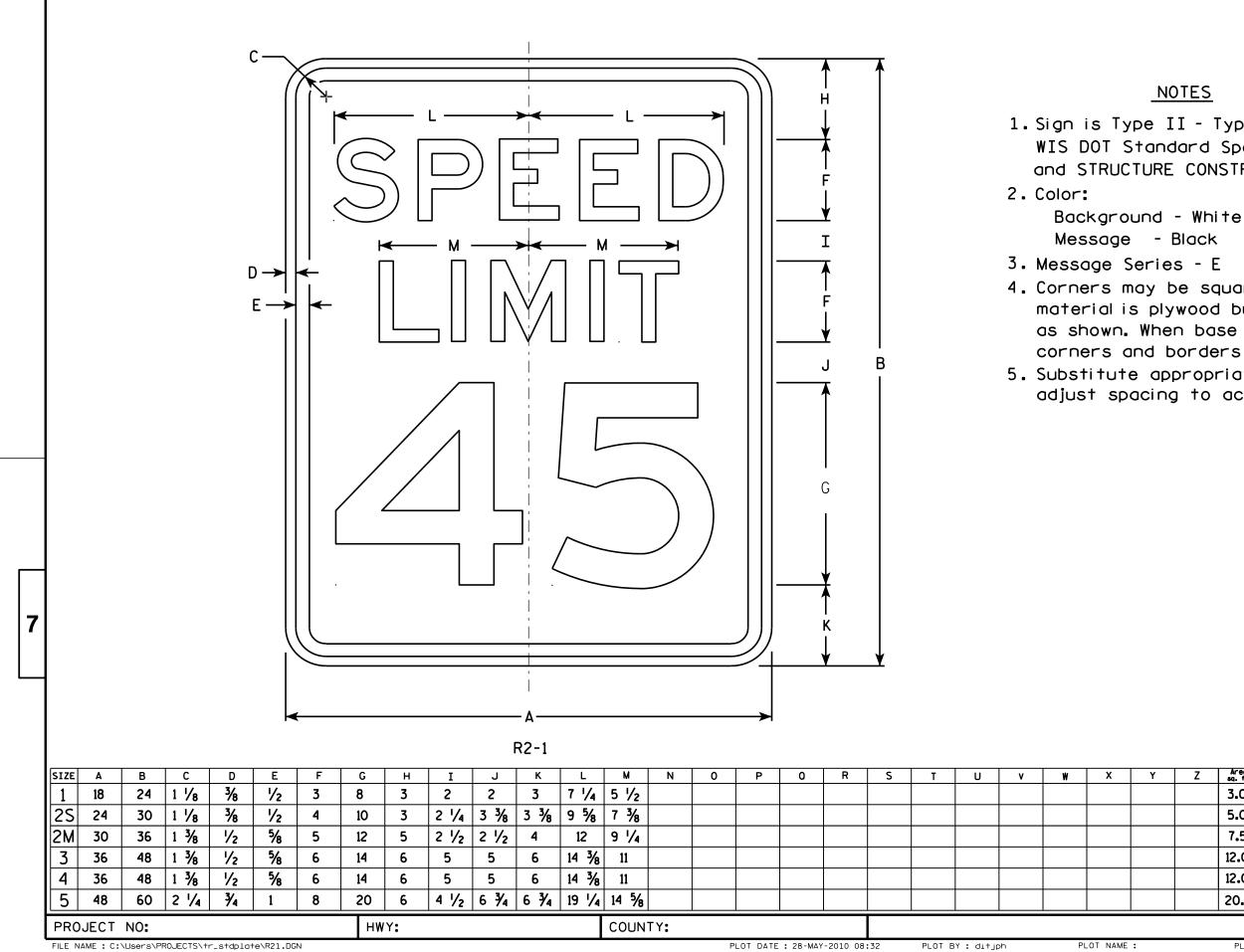
PINT DATE . 01-DEC-2015 17.57 PINT RY . \$\$ 010

PLOT BY . \$\$ DIOTUSER \$\$ PLOT NAME :

NOTES
e II - Type H except as Shown
- See note 4 See note 4
be square or rounded when base ywood but borders shall be rounded en base material is metal, the borders shall be rounded.
2 Background – White Message – Black
5-2 Background - Blue Message - White
-2 Background - Green Message - White
-2 Background - White Message - Green
6-2 Background - Brown Message - White
6-2 Background - Orange - Type F Reflective Message - Black
-2 Background - White Message - Blue
6-2 Background – Brown Message – Yellow

Ā	
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¥	
1	

Z	Årea sq. ft.		5-1 8	RD SIGN & M6-2 RIES	N	
	3.06	WISCONSIN	DEPT OF	TRANSPORT	ATION	
	6.25	APPROVED	Matthe	, P P		1
	6.25			Traffic Engineer	ww	ሥ
	6.25	DATE <u>10/15</u>	/15	PLATE NO	16-1.1	5
			SHEET	NO:		Ε



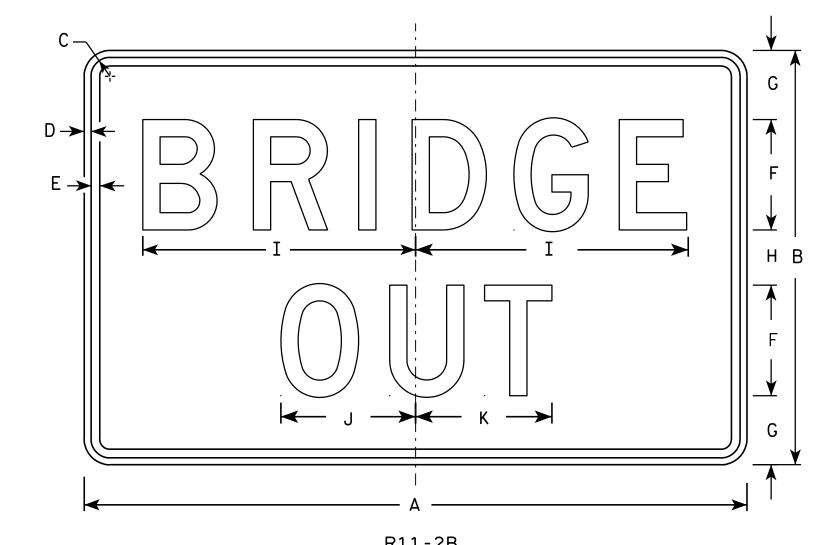
# NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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 and optically adjust spacing to achieve proper balance.

	4700	
Z	Areo sq. ft.	
	3.0	STANDARD SIGN
	5.0	R2 - 1
	7.5	WISCONSIN DEPT OF TRANSPORTATION
	12.0	APPROVED Matther R Rauch
	12.0	For State Traffic Engineer
	20.0	DATE 5/26/10 PLATE NO. R2-1.13
		SHEET NO: E

WISDOT/CADDS SHEET 42



- 2. Color:
  - Background White Message - Black
- 3. Message Series D

$\mathbf{N}\mathbf{I}\mathbf{I}^{-}\mathbf{Z}\mathbf{D}$	R	1	1	-	2	В	
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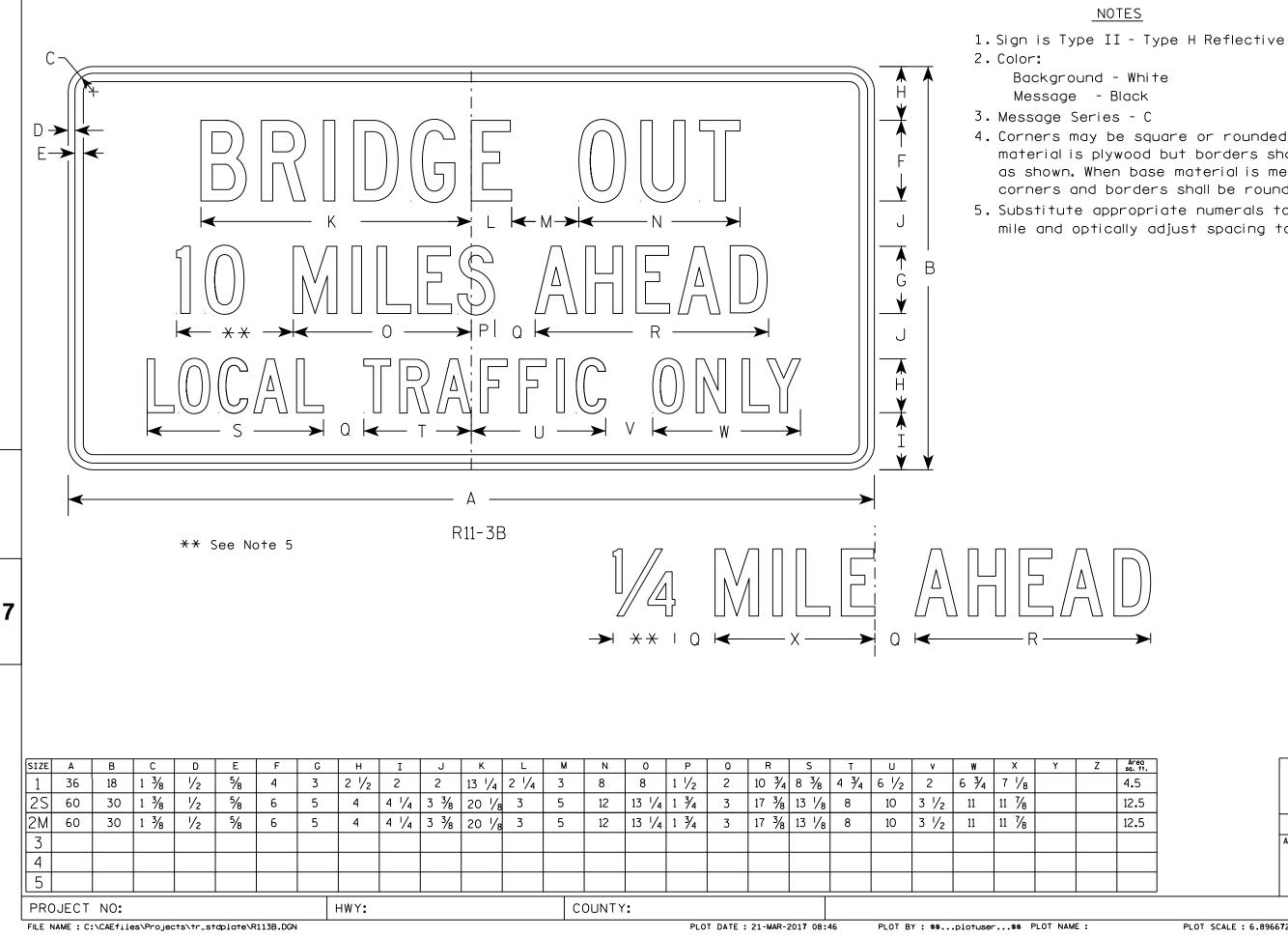
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<b>2</b> S	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3⁄4	9 7/8																I
2M	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3/4	9 7/8																Ī
3	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3/4	9 7/8																Ī
4	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3⁄4	9 7/8																Ī
5	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3/4	9 7/8																Ī
PPO	JECT	NO.																									-
FRU	JECT	NU.																									_
FILE N	AME : C:	\Users\F	ROJECTS	tr_stdpl	ate\R112	B.DGN										PLO	T DATE :	01-APR-2	2011 14:2	23	PLOT B	Y : mscj9	h				

# NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. 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.

Areo	
Area sq. ft.	STANDARD SIGN
10.0	R11-2B
10.0	WISCONSIN DEPT OF TRANSPORTATION
10.0	APPROVED Matthew & Rauch
10.0	For State Traffic Engineer
10.0	DATE 4/1/11 PLATE NO. R11-2B.2
	SHEET NO: E
	SHELT NO: E

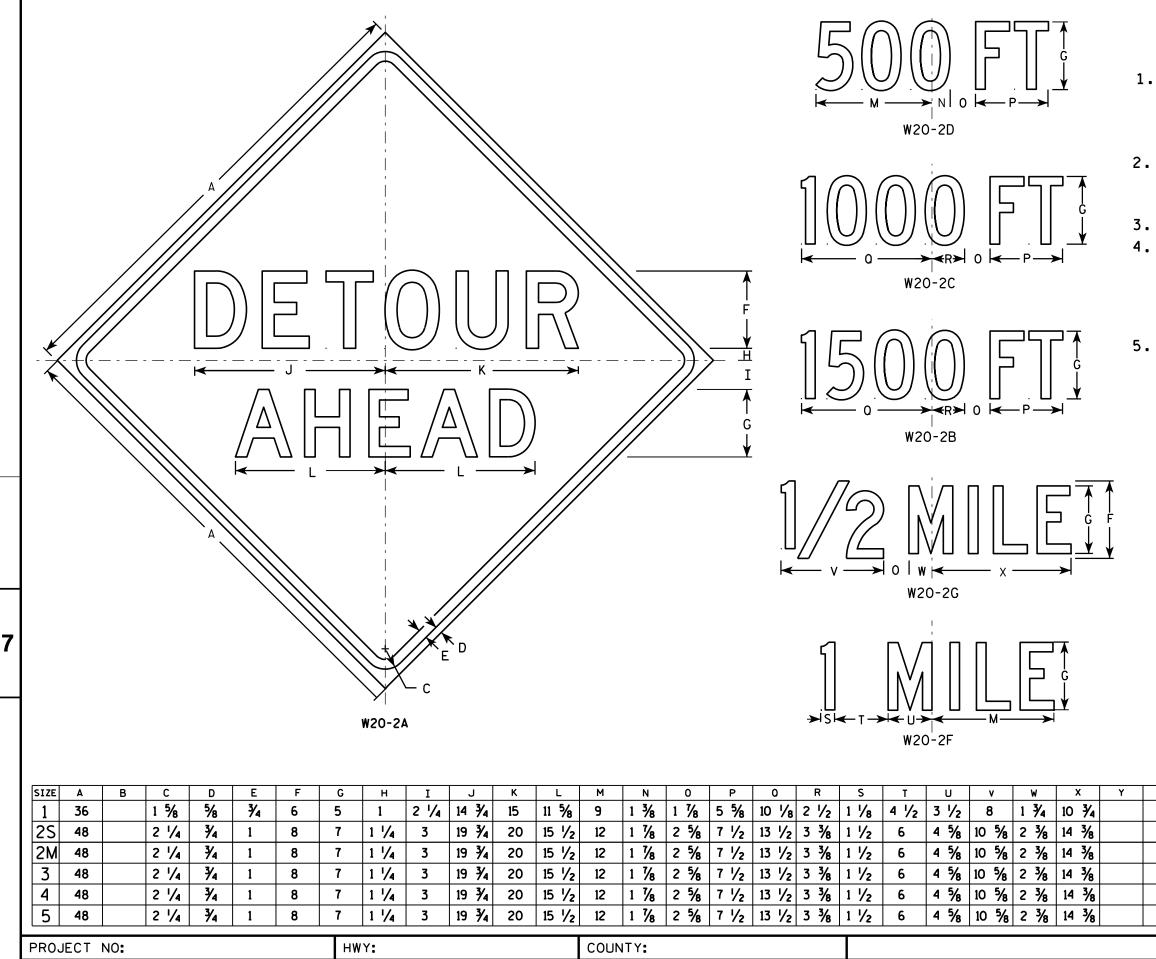
WISDOT/CADDS SHEET 42



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.

$\Big)$
1

.5		S		RD SIGN		
2 <b>.</b> 5		R1	1-3B			
2.5		WISCONSIN DEPT OF TRANSPORTATION				
		APPROVED Matther & Rauch For State Traffic Engineer				
	DATE <u>3/21/17</u> PLATE NO. <u>R11-3B.3</u>					
			SHEET	NO:	Ε	
	PLOT SCALE : 6.8966	572:1.000000	) wisc	DOT/CADDS SHEE	T 42	



FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W202.DGN

PLOT DATE : 18-MAR-2011 10:00

PLOT NAME :

PLOT BY : mscj9h

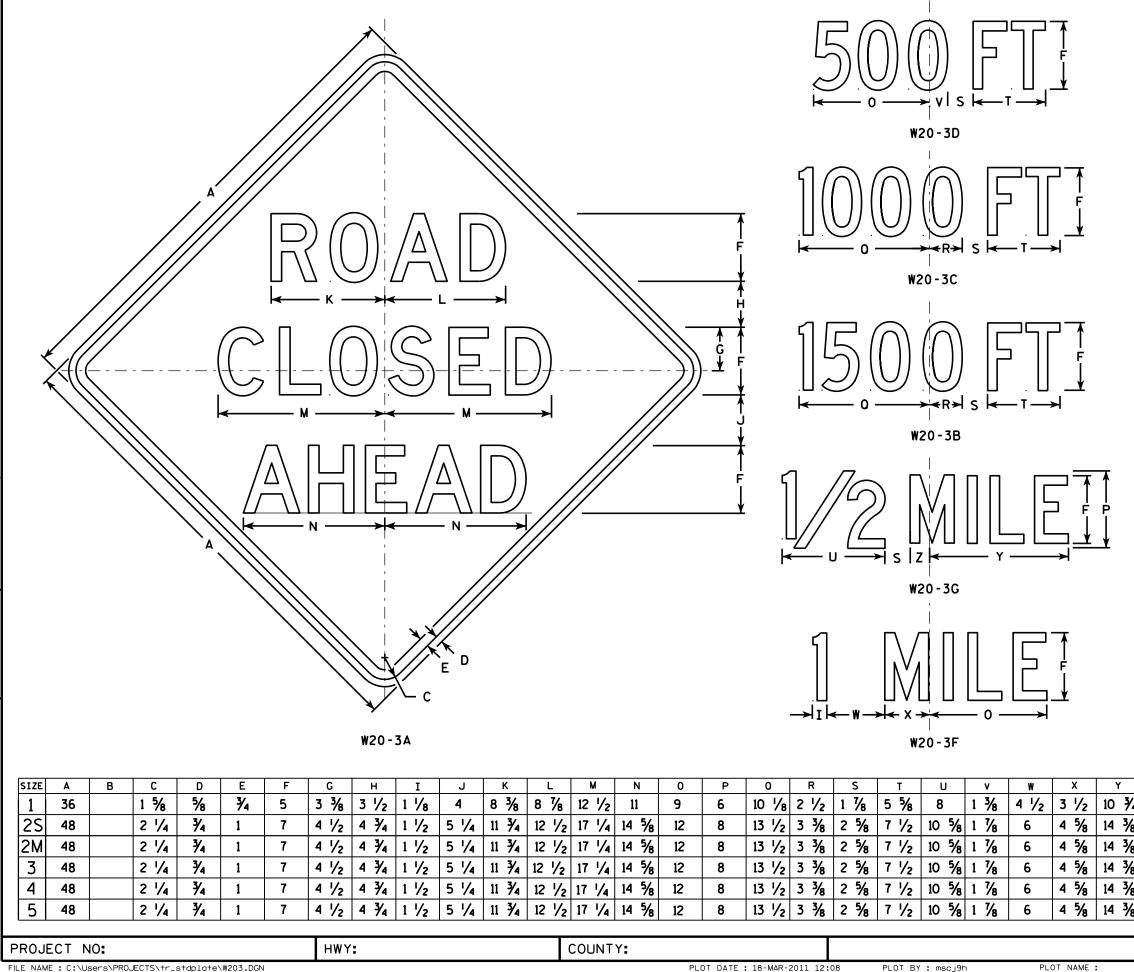
# NOTES

 Sign is Type II - Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
 Color: Background - Orange

Message - Black

 Message Series - See note 5
 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.
 Line 1 is Series D. Line 2 is Series D for AHEAD and Series C for all other distances.

Z	Areo	1								
۷.	sq. ft. 9.0			STANDARD SIGN						
	16.0			-2A,B,C,D,F & G						
	16.0									
	16.0		WISCONSIN DEPT OF TRANSPORTATION							
	16.0		DATE 3/18/11 PLATE NO. W20-2.6							
	16.0									
	SHEET NO: E									
	PLO	DT SCALE : 9.93173	9:1.000000	WISDOT/CADDS SHEET 4						



FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W203.DGN

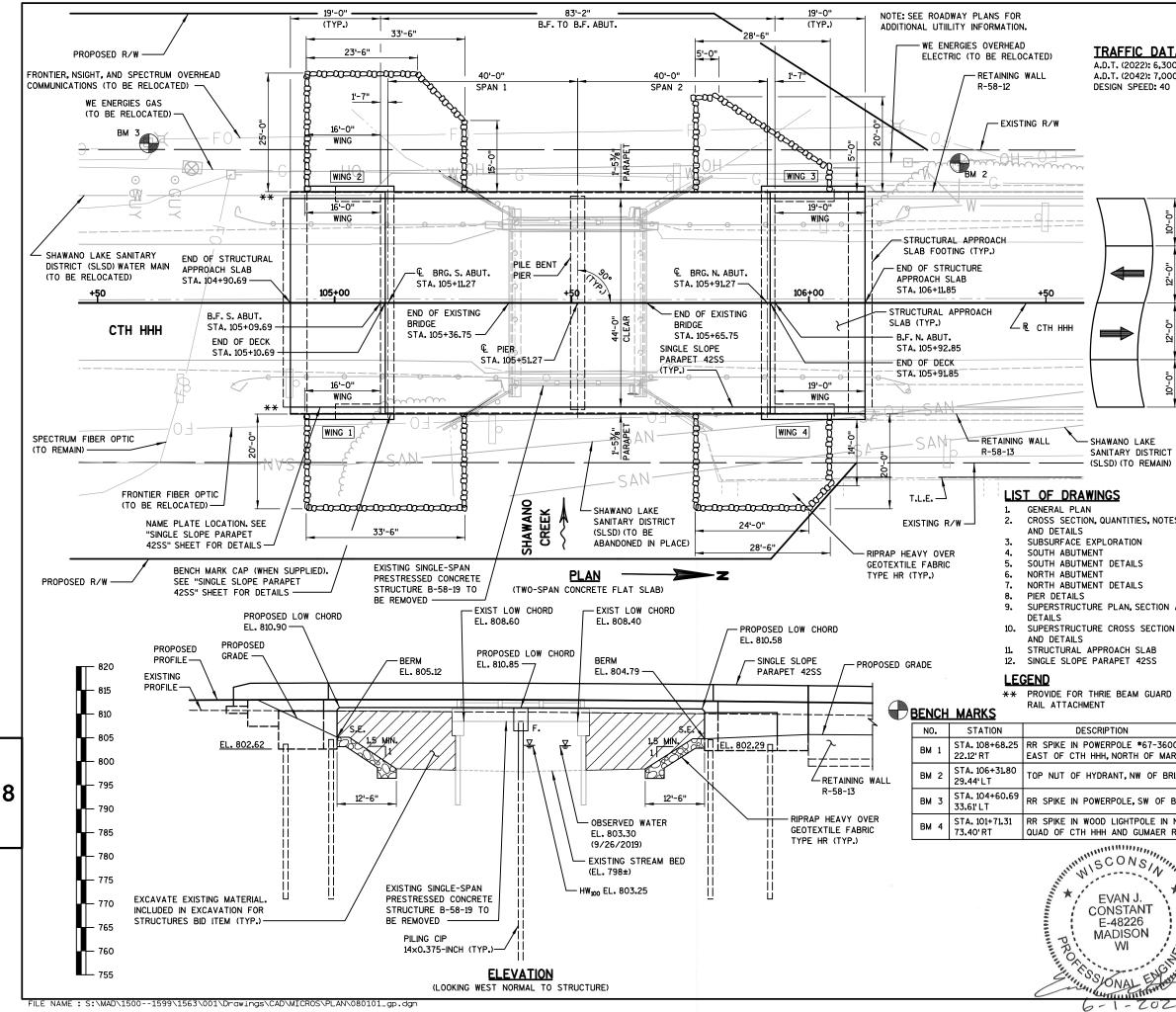
7

PLOT DATE : 18-MAR-2011 12:08

# NOTES

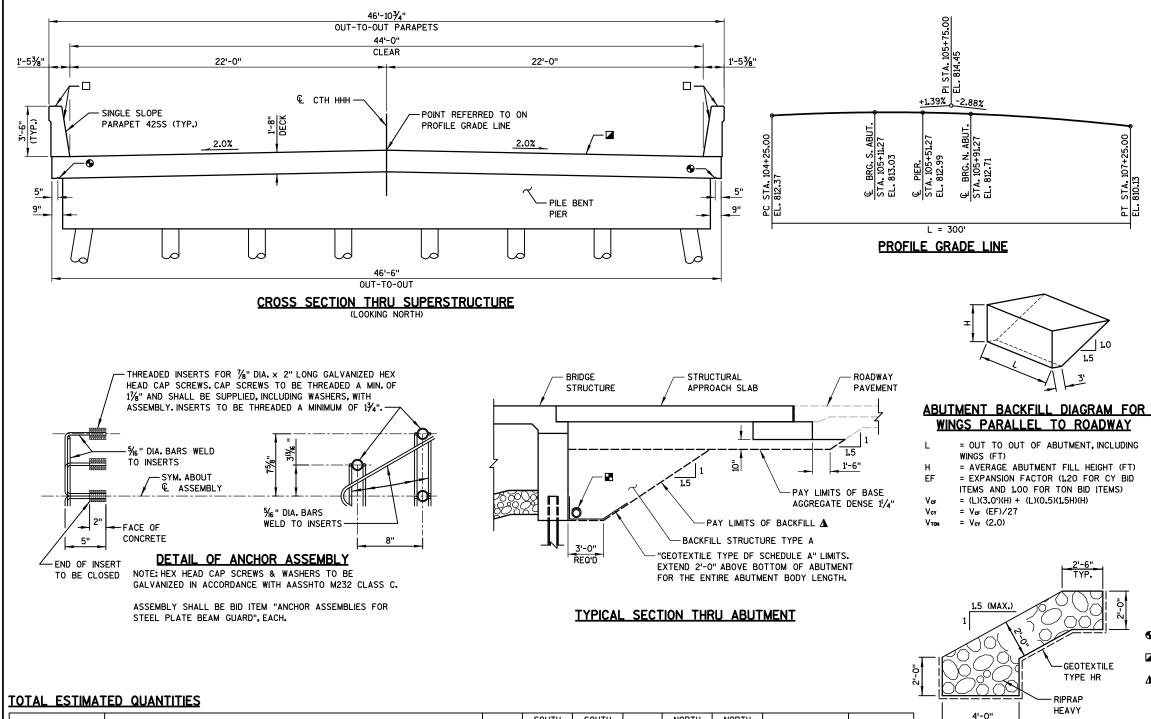
- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color: Background - Orange Message - Black
- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be 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.

	Z	Ζ	Areo sq. ft.	
4	1 7	¥4	9.0	STANDARD SIGN
3	2	⅔	16.0	
,	2	3⁄8	16.0	W2O-3A, B, C, D, F & G
5	2	⅔	16.0	WISCONSIN DEPT OF TRANSPORTATION
3	2	⅔	16.0	APPROVED Matther R Rauch
;	2	⅔	16.0	For State Traffic Engineer DATE 3/18/11 PLATE NO. W20-3.7
				SHEET NO: E
			PLOT S	CALE : 9.931739:1.000000 WISDOT/CADDS SHEET 42



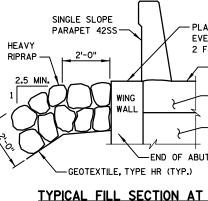
STATE PROJECT NUMBER

				9318·	-02	-70		
C DATA 22): 6,300 42): 7,000	CTDUCTUDE	DESIGNE	D FOR	A FUTURE	02	10		
EED: 40 MPH	INVENT OPERA WISCON	TING RA <sup>-</sup> ISIN STA	TING FA TING FA .NDARD	CTOR	RF = RF =	1.13 1.47		
10'-0" SHLDR	CONCR CONCR HIGH S STEEL	ETE SUP ETE SUB ETE (APF TRENGTH REINFOF	ERSTRUCT STRUCT P. SLAB H BAR CEMENT	ICTURE URE AND FTG.) T RING PRESSURE_	f'c : f'c : fy =	= 3,500 PSI = 4,000 PSI = 60,000 PS		
	EOUNDA ABUTMENTS	TO BE INCH DR PER PIL	DATA SUPPOF	RTED ON PILING D A REQUIRED D DETERMINED BY	CIP C	ONCRETE RESISTANC		
12'-0"	14 × 0.375-	INCH DR PER PI	IVEN TO	N PILING CIP CON D A REQUIRED D DETERMINED BY	RIVING	RESISTANC		
100" SHLDR	USED FOR [ MULTIPLIED	DESIGN IS BY A RI	S THE F ESISTAN	ESISTANCE OF F REQUIRED DRIVIN ICE FACTOR OF EN PILE CAPACI	G RES 0.5 L	ISTANCE		
_AKE DISTRICT REMAIN)	SOUTH PIER _ NORTH	IMATED PILE LENGTHS: SOUTH ABUTMENT 35 FEET EACH PIER 85 FEET EACH NORTH ABUTMENT 35 FEET EACH						
ES, NOTES N S	VEL. HW <sub>100</sub> WATERWAY DRAINAGE A	AREA (B) REA VERTOPF	RIDGE)		1.22 EL. 8 344 73 S	F.P.S. 803.25 S0. FT.		
S SECTION AND SECTION	2 YEAR FRE Q2 VEL HW2				0.60	C.F.S. F.P.S. 802.90		
SLAB 42SS	STRUCTU DESIGN CON EVAN CONS	SULTANT	CONT		S		×.	
I GUARD	BUREAU OF AARON BON							
*67-3600,	ELEV. 806.86	NO. DA		REVISIO			BY	
OF MARINA.	809.93		A	910 WEST WIN MADISON, WISC (608)-251-4843	ONSIN 3			
SW OF BRIDGE	803.31		RAND SOCIATES	WWW.STRAND.C	юм			8
POLE IN NE SUMAER RD	810.57	ACCEPT	ED	STATE OF W PARTMENT OF T STRUCTURES DESIG	RANSI	PORTATION DR $08/2$	2 <mark>5/21</mark> Date	
SININ			STR	UCTURE	B-5	8-136		
***		COUNTY		HHH OVER SHA	WANC	CREEK	FECOTT	
NT 6 DN		DESIGN AASH DESIGNI BY	TO LRF	<u>D BRIDGE DEȘIGI</u>	N SPE			
6 NG NG NG NG NG NG NG NG NG NG NG NG NG				ENERAL PLAN		SHEET 1	0F 12	
Mitte								



	BID ITEM NUMBER	BID ITEMS	UNIT	SOUTH APPROACH	SOUTH ABUTMENT	PIER	NORTH APPROACH	NORTH ABUTMENT	SUPERSTRUCTURE	TOTAL
	203.0211.S	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-58-19	EACH						1	1
	203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS B-58-19	EACH							1
	206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-58-136	LS							1
	210.1500	BACKFILL STRUCTURE TYPE A	TON		188			188		376
8	305.0120	BASE AGGREGATE DENSE 11/4-INCH	TON	145			145			290
	502.0100	CONCRETE MASONRY BRIDGES	CY	64	63	19	65	72	266	549
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	98			98		421	617
	502.3210 PIGMENTED SURFACE SEALER			20			20		80	120
	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		3,370	5,680		3,780		12,830
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	11,050	1,860	90	11,050	2,890	49,020	75,960
	505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	220			220			440
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		13			13		26
	550.2146	PILING CIP CONCRETE 14 X 0.375-INCH	LF		315	850		315		1,480
	606.0300	RIPRAP HEAVY	CY		202			153		355
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		90			90		180
	614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH						2	2
	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		54			54		108
	645.0120	GEOTEXTILE TYPE HR	SY		345			265		610
		NON-BID ITEMS								
		FILLER	SIZE							1/2" & 3/4"

# RIPRAP HEAVY DETAIL



FILE NAME : S:\MAD\1500--1599\1563\001\Drawings\CAD\MICROS\PLAN\080102\_cs.dgn

STATE PROJECT NUMBER

# 9318-02-70

# NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

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

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

BAR DIMENSIONS FOR BENDING ARE OUT-TO-OUT OF BARS.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-58-136" SHALL BE THE EXISTING GROUND LINE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE 'HR' TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

AT THE BACK FACE OF ABUTMENTS ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL "STRUCTURE BACKFILL TYPE A".

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

 EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS
 REQUIRES ENGINEER APPROVAL. "GEOTEXTILE TYPE DF SCHEDULE A" SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

SLAB FALSEWORK SHALL BE SUPPORED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

THE EXISTING STRUCTURE B-58-19, A SINGLE-SPAN PRESTRESSED CONCRETE CHANNEL BRIDGE, IS TO BE REMOVED.

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

AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

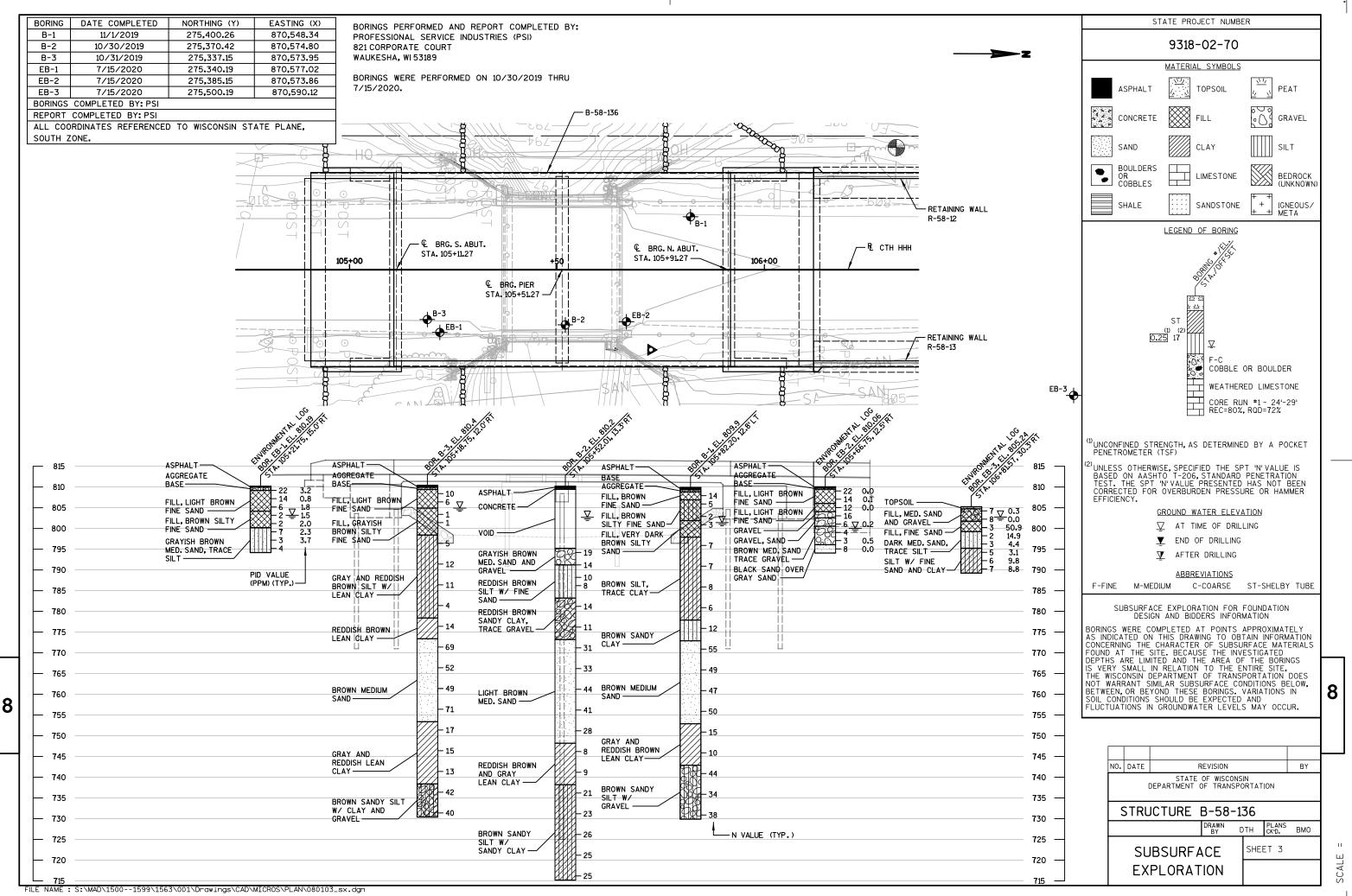
C.I.P. PILE SHELL MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. PILE SHELL MATERIAL SHALL HAVE 45 KSI YEILD STRENGTH. LEGEND

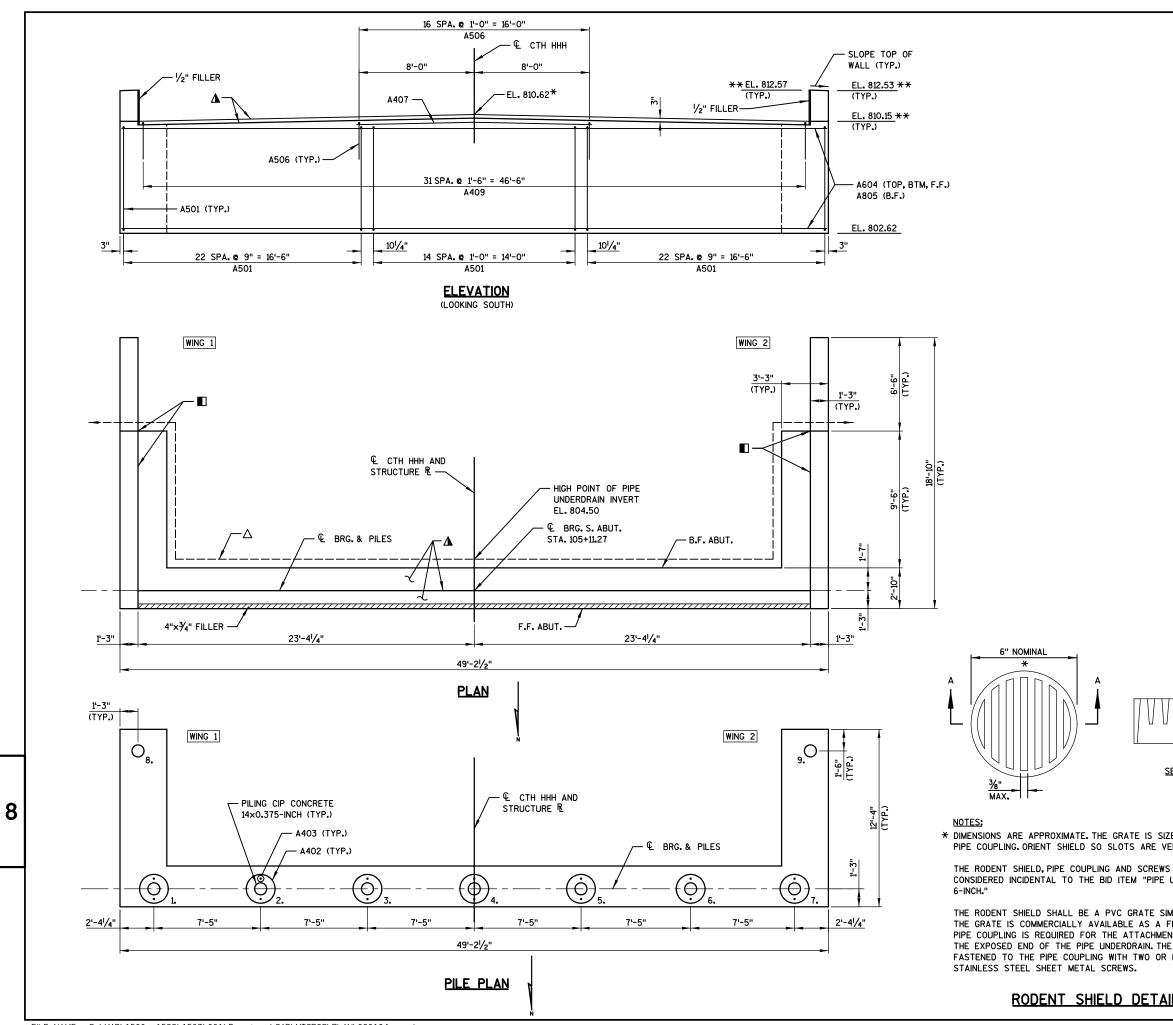
● ¾" V-GROOVE REQ'D. EXTEND TO 6" FROM F.F. OF ABUT. DIAPHRAGMS.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE DECK.

- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL SHEET 4.
- □ PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE INSIDE AND TOP FACES OF PARAPETS, INCLUDING PARAPETS ON STRUCTURAL APPROACH SLABS.

CE HEAVY RIPRAP IN WITH TOP OF WING, EET FROM WING TIP.	[					
TOP OF STRUCTURAL APPROACH SLAB	N0.	DATE	REVISION		BY	
-STRUCTURAL APPROACH SLAB	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION					
BASE AGGREGATE DENSE 11/2" OR FOOTING		ST	RUCTURE B-58	8-136		
MENT WING			DRAWN BY D	TH PLANS	BMO	
			SS SECTION,	SHEET 2		
WING TIPS	N		JANTITIES, S & DETAILS			





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STATE PROJECT NUMBER

# 9318-02-70

# **NOTES**

SEE SHEET 6 FOR PILE SPLICE DETAILS.

SEE SHEET 5 FOR REINFORCING DETAILS.

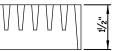
ADJUST A501 BARS INTERFERING WITH PILES.

SOUTH ABUTMENT TO BE SUPPORTED ON PILING CIP CONCRETE 14x0.375-INCH WITH A REQUIRED DRIVING RESISTANCE OF 175 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 35 FEET LONG EACH.

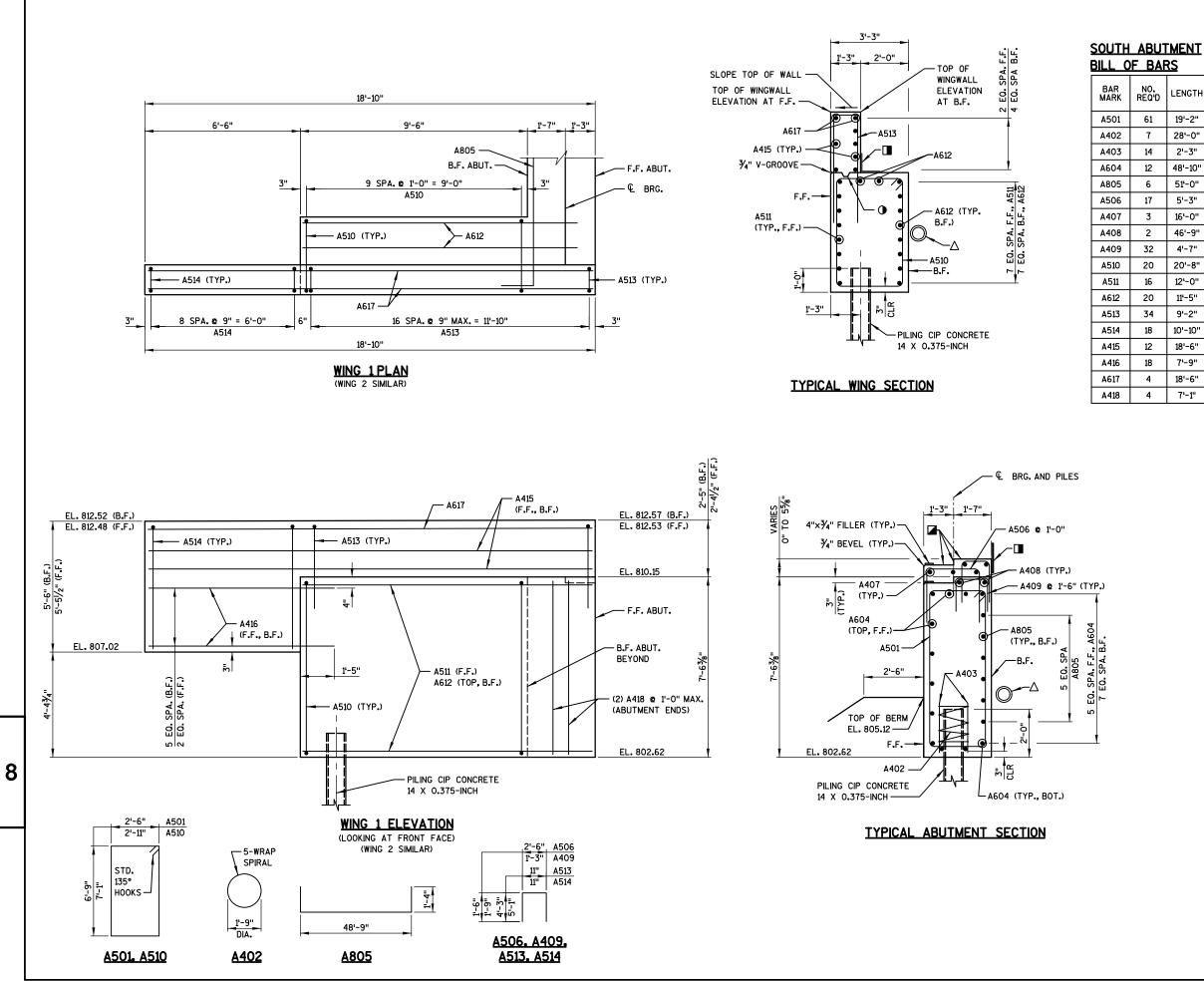
SEE SHEET 2 FOR TYPICAL FILL SECTION AT WING TIPS.

### **LEGEND**

- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- ▲ STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".
- $\bigtriangleup$  PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL THIS SHEET.
- \* THESE ELEVATIONS GIVEN AT B.F. ABUT.
- \*\* THESE ELEVATIONS GIVEN AT F.F. ABUT.



SECTION A-A							
ZED TO FIT INTO A ERTICAL.							
S SHALL BE							
UNDERDRAIN WRAPPED	NO. DATE REVISION					ΒY	
MILAR TO THIS DETAIL.	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION						
FLOOR STRAINER. A NT OF THIS SHIELD TO	STRUCTURE B-58-136						
E SHIELD SHALL BE MORE NO.10 × 1-INCH				DRAWN BY D	тн	PLANS CK1D.	BMO
0	SOUTH SHEET				Τ4		
<u>IL</u>		A	BUTMEN				



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STATE PROJECT NUMBER

9318-02-70

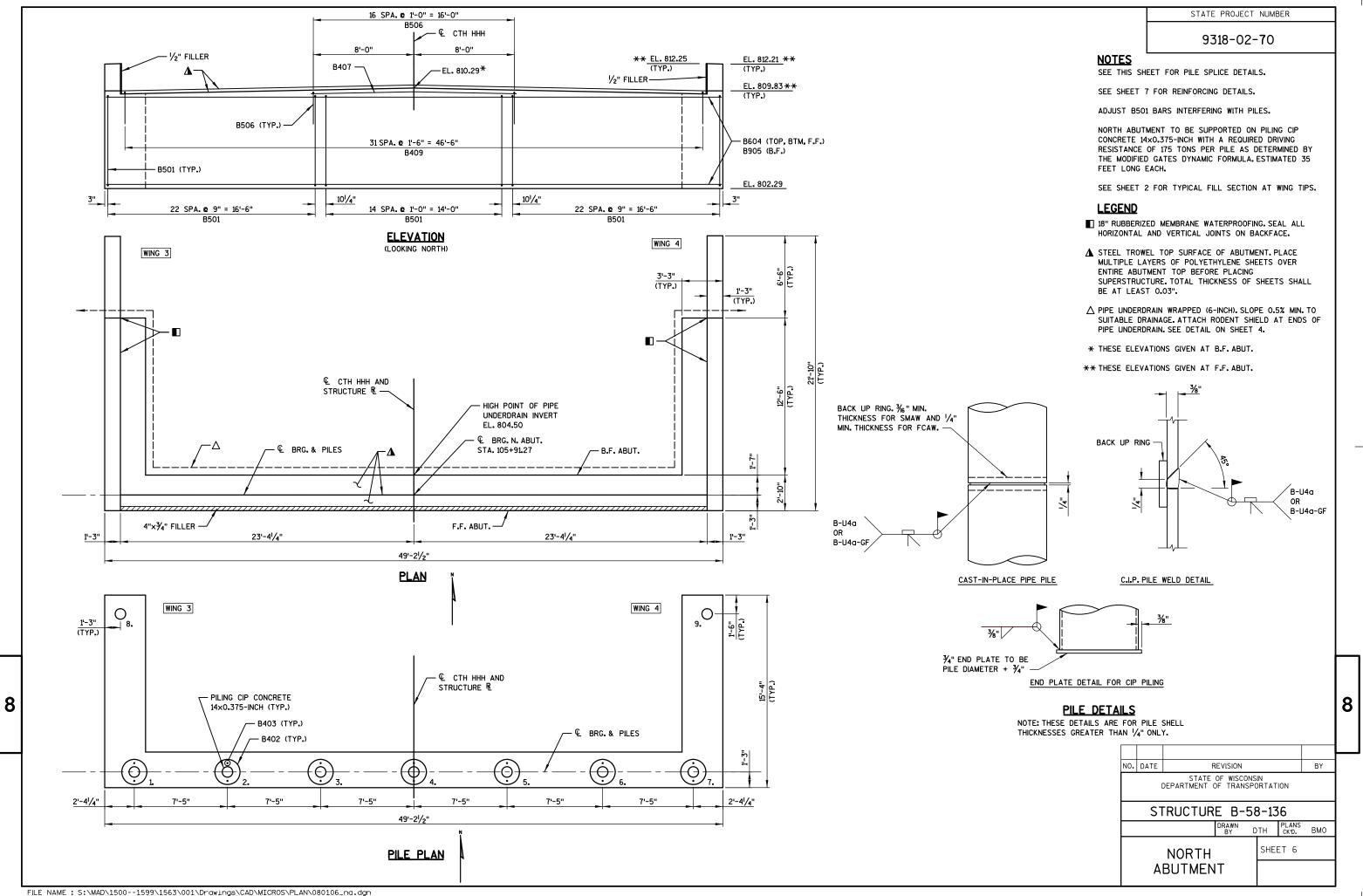
# UNCOATED: 3.370 LBS COATED: 1.860 LBS

				CONTED. 10000 EDD
D	LENGTH	BENT	COAT	LOCATION
	19'-2"	х		BODY - VERT.
	28'-0"	х		BODY - PILES - SPIRAL
	2'-3"			BODY - PILES - VERT.
	48'-10"			BODY - TOP, BOT., & F.F HORIZ.
	51'-0"	х		BODY - B.F HORIZ.
	5'-3"	х		BODY - VERT.
	16'-0"			BODY - TOP, HORIZ.
	46'-9"			BODY - TOP, HORIZ.
	4'-7"	х		BODY - TOP, VERT.
	20'-8"	х	х	LOWER WINGS - VERT.
	12'-0"		х	LOWER WINGS - F.F HORIZ.
	11'-5"		х	LOWER WINGS - B.F HORIZ.
	9'-2"	х	х	UPPER WINGS - VERT.
	10'-10''	х	х	UPPER WINGS - VERT END
	18'-6"		х	UPPER WINGS - HORIZ.
	7'-9"		х	UPPER WINGS - HORIZ END
	18'-6"		х	UPPER WINGS - HORIZ TOP
	7'-1"			BODY - ENDS - VERT.

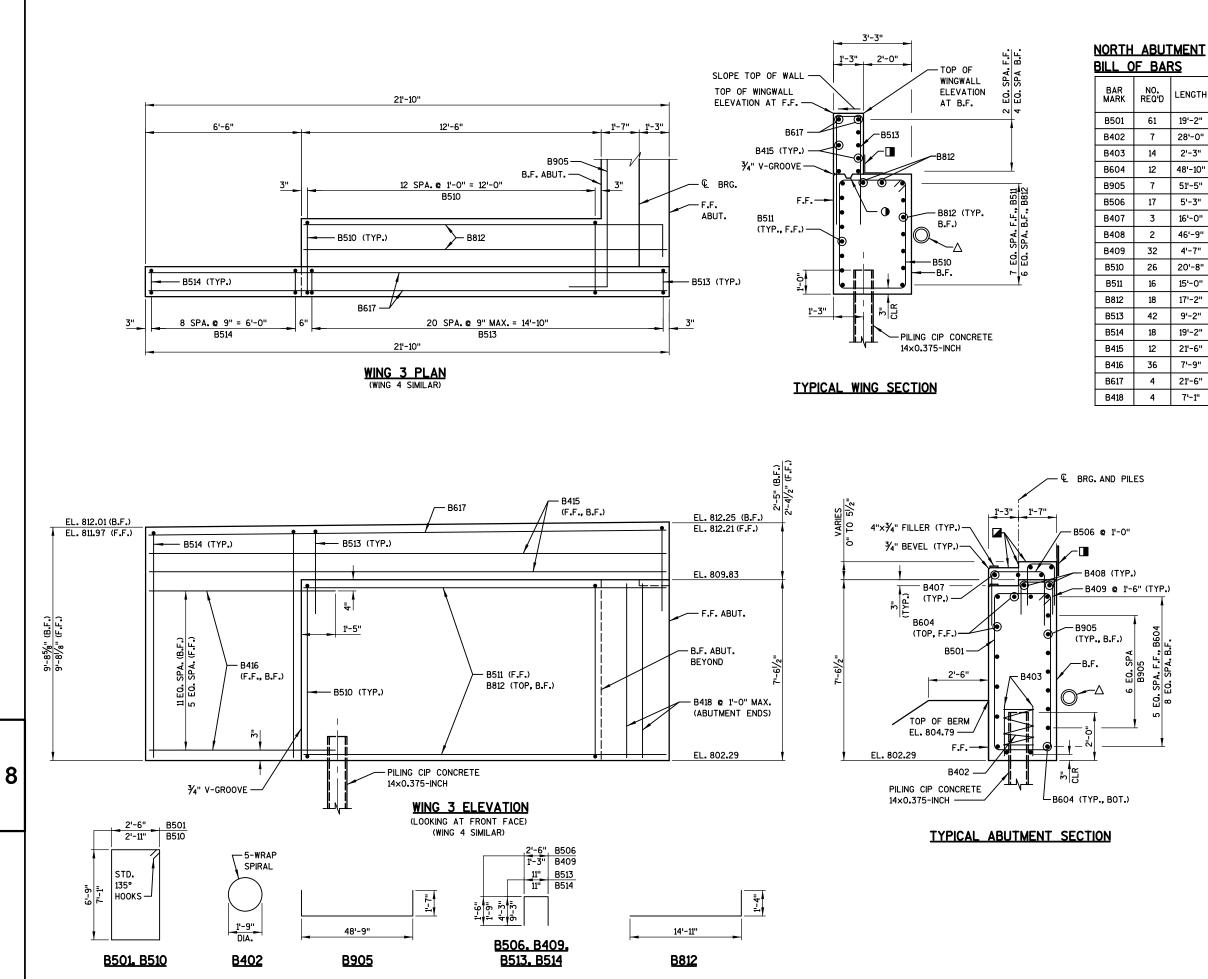
# **LEGEND**

- OPTIONAL CONSTRUCTION JOINT FORMED BY BEVELED 2"X6" KEYWAY WITH MEMBRANE ON BACKFACE.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- △ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. HIGH POINT EL. 804.50 AT R. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN PER DETAIL ON SHEET 4.
- STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHELENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING SUBSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".

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DATE	F	EVISION				BY		1
C					ION			
ST	RUCTUR	E B-	58	3-13	6			
		DRAWN BY	D	ТН	PLANS CK'D.	BMO		
٨	0.122.1							
	ST	STRUCTUR STRUCTUR SOUTH ABUTMEN	STATE OF WISCO DEPARTMENT OF TRANS	STATE OF WISCONS DEPARTMENT OF TRANSPO STRUCTURE B-58 DRAWN BY SOUTH ABUTMENT	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTAT STRUCTURE B-58-13 DRAWN BY DTH SOUTH ABUTMENT	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-58-136 DRAWN BY DTH PLANS BY DTH PLANS CKO. SOUTH SHEET 5	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-58-136 DRAWN BY DTH PLANS CKD. BMO SOUTH ABUTMENT	DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-58-136 DRAWN DTH PLANS BMO SOUTH ABUTMENT SHEET 5







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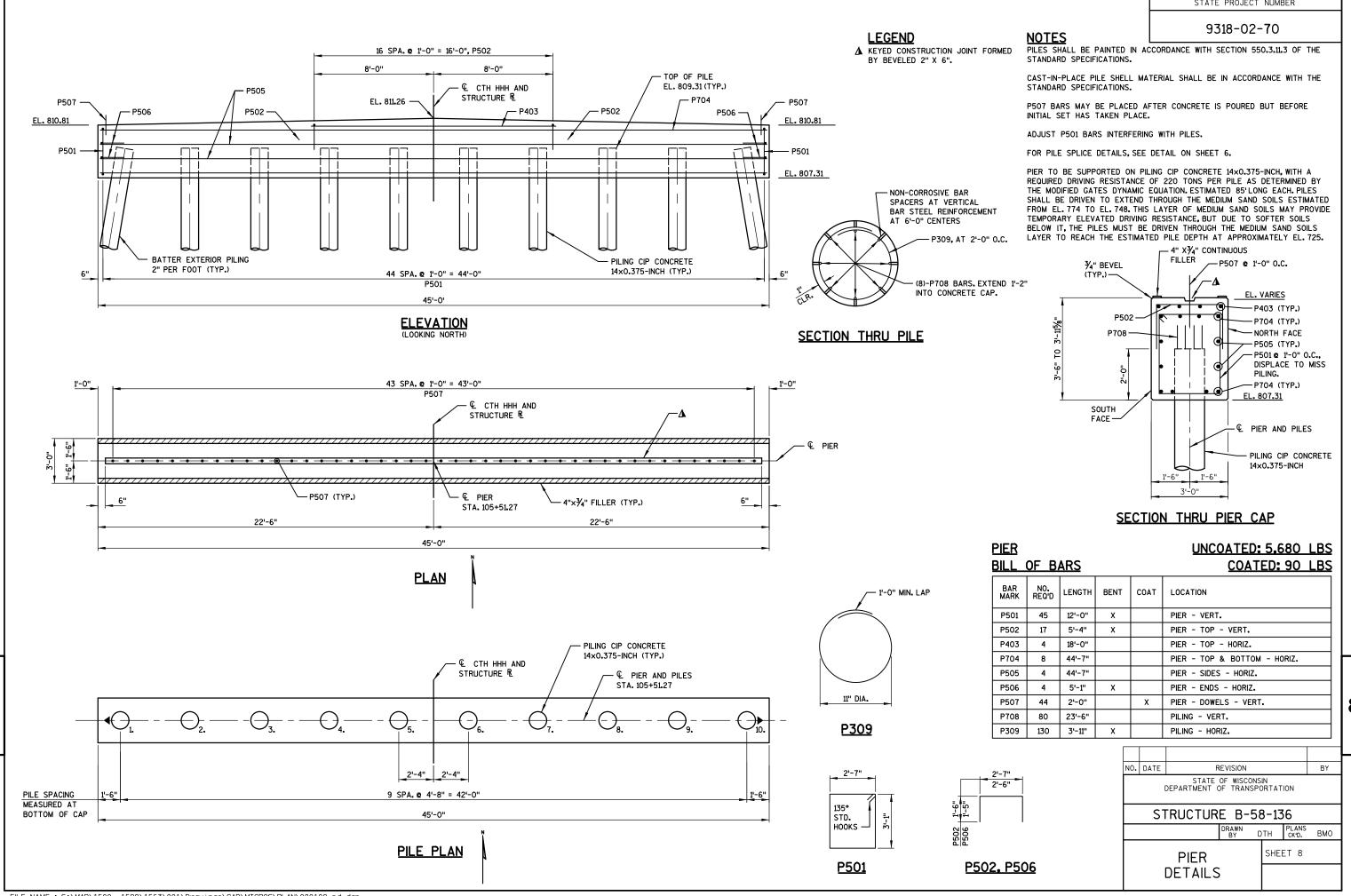
# UNCOATED: 3.780 LBS COATED: 2.890 LBS

41	13			COATED. 2.030 ED3
2	LENGTH	BENT	COAT	LOCATION
	19'-2"	х		BODY - VERT.
	28'-0"	х		BODY - PILES - SPIRAL
	2'-3"			BODY - PILES - VERT.
	48'-10"			BODY - TOP, BOT., & F.F HORIZ.
	51'-5"	х		BODY - B.F HORIZ.
	5'-3"	х		BODY - VERT.
	16'-0"			BODY - TOP, HORIZ.
	46'-9"			BODY - TOP, HORIZ.
	4'-7"	х		BODY - TOP, VERT.
	20'-8"	х	х	LOWER WINGS - VERT.
	15'-0"		x	LOWER WINGS - F.F HORIZ.
	17'-2"	×	х	LOWER WINGS - B.F HORIZ.
	9'-2"	x	х	UPPER WINGS - VERT.
	19'-2"	×	х	UPPER WINGS - VERT END
	21'-6"		х	UPPER WINGS - HORIZ.
	7'-9"		х	UPPER WINGS - HORIZ END
	21'-6"		x	UPPER WINGS - HORIZ TOP
	7'-1"			BODY - ENDS - VERT.

# **LEGEND**

- OPTIONAL CONSTRUCTION JOINT FORMED BY BEVELED 2"X6" KEYWAY WITH MEMBRANE ON BACKFACE.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- △ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE, HIGH POINT EL. 804.50 AT R. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN PER DETAIL ON SHEET 4.
- STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHELENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING SUBSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".

							8
NO.	DATE	F	REVISION			BY	
	[	STATE DEPARTMENT	OF WISCONS OF TRANSP		ION		
	S1	RUCTUR	E B-5	8-13	6		
			DRAWN BY I	ОТН	PLANS CK'D.	BMO	
		NORTH		SHE	et 7		
		BUTMEN DETAILS					

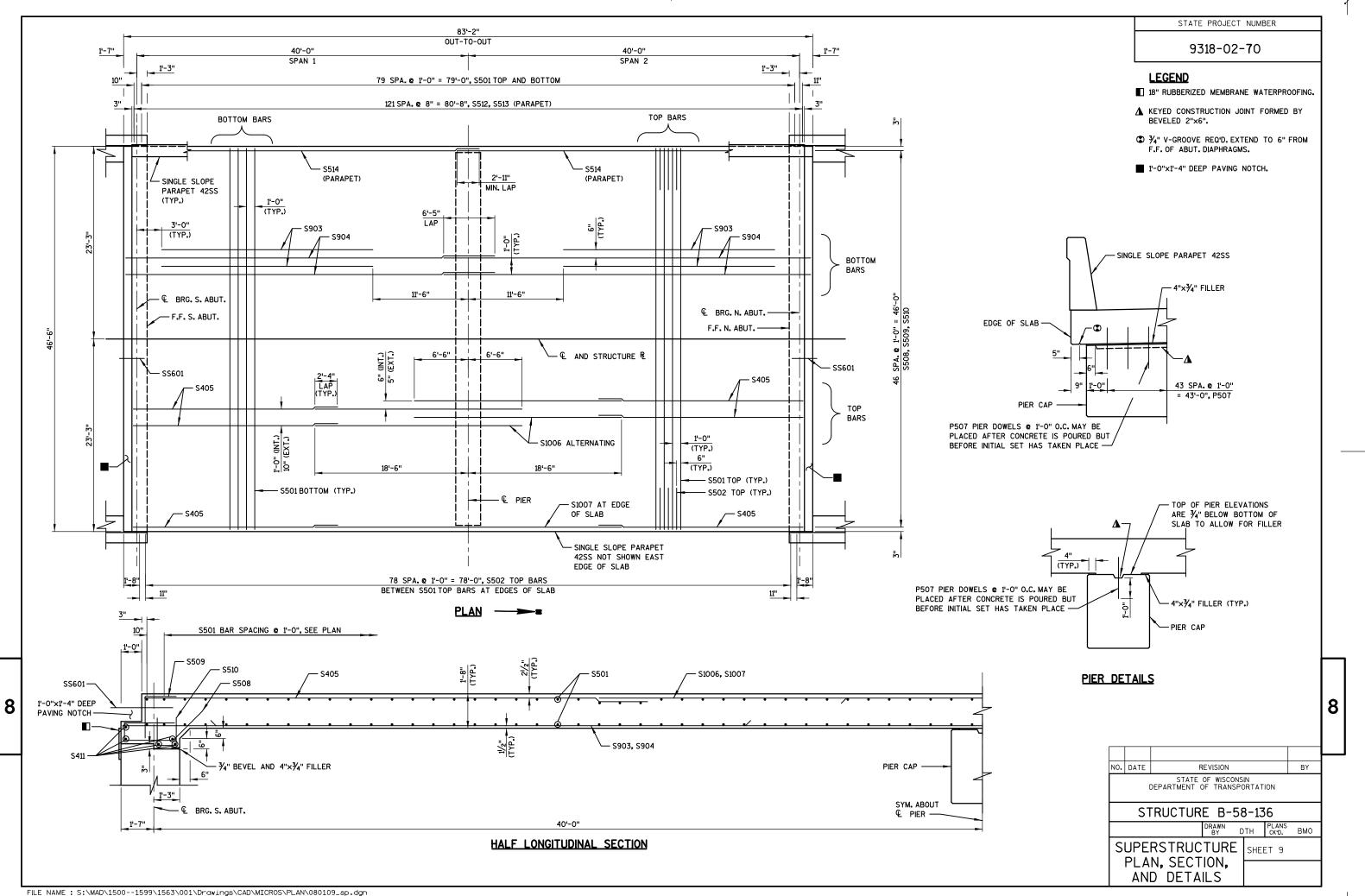


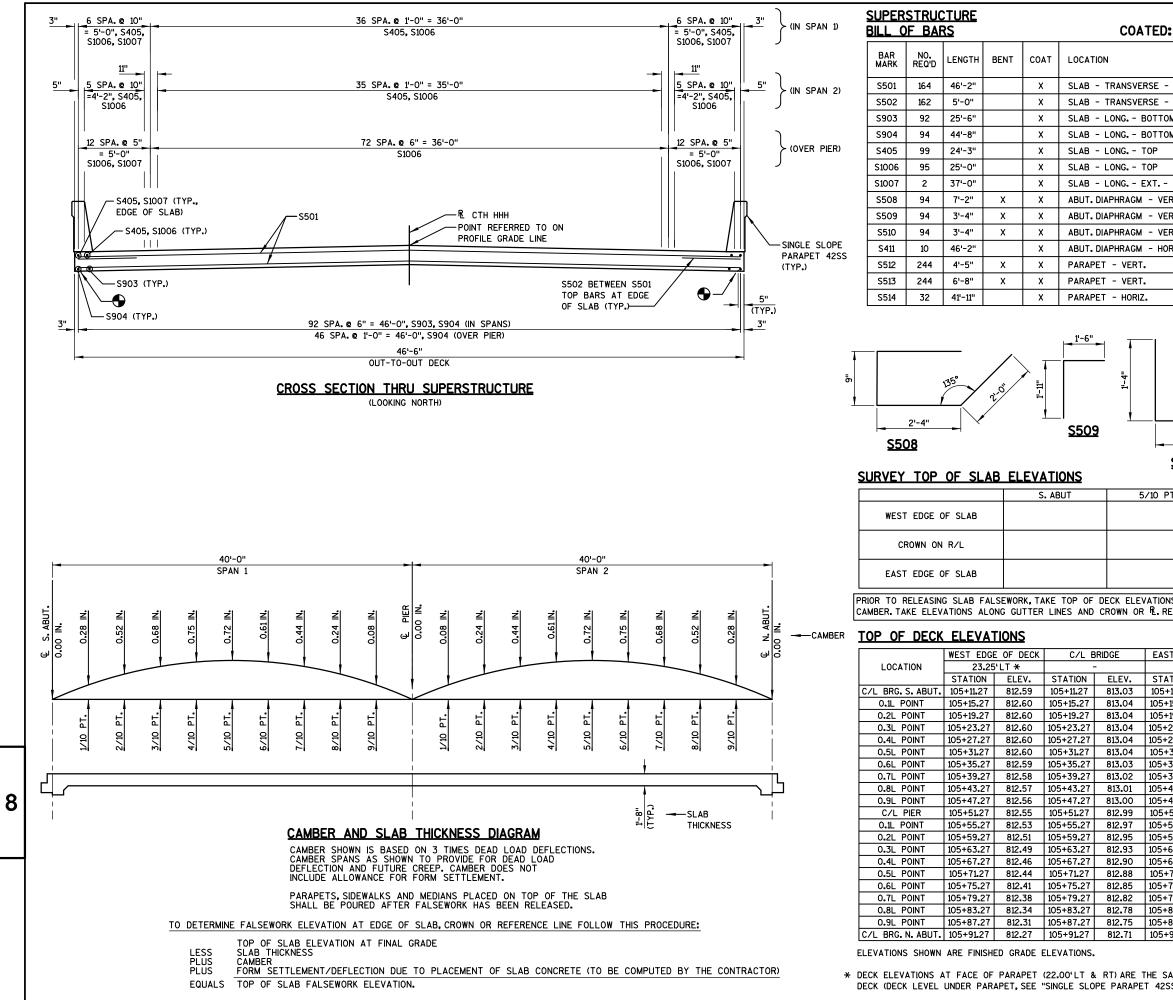
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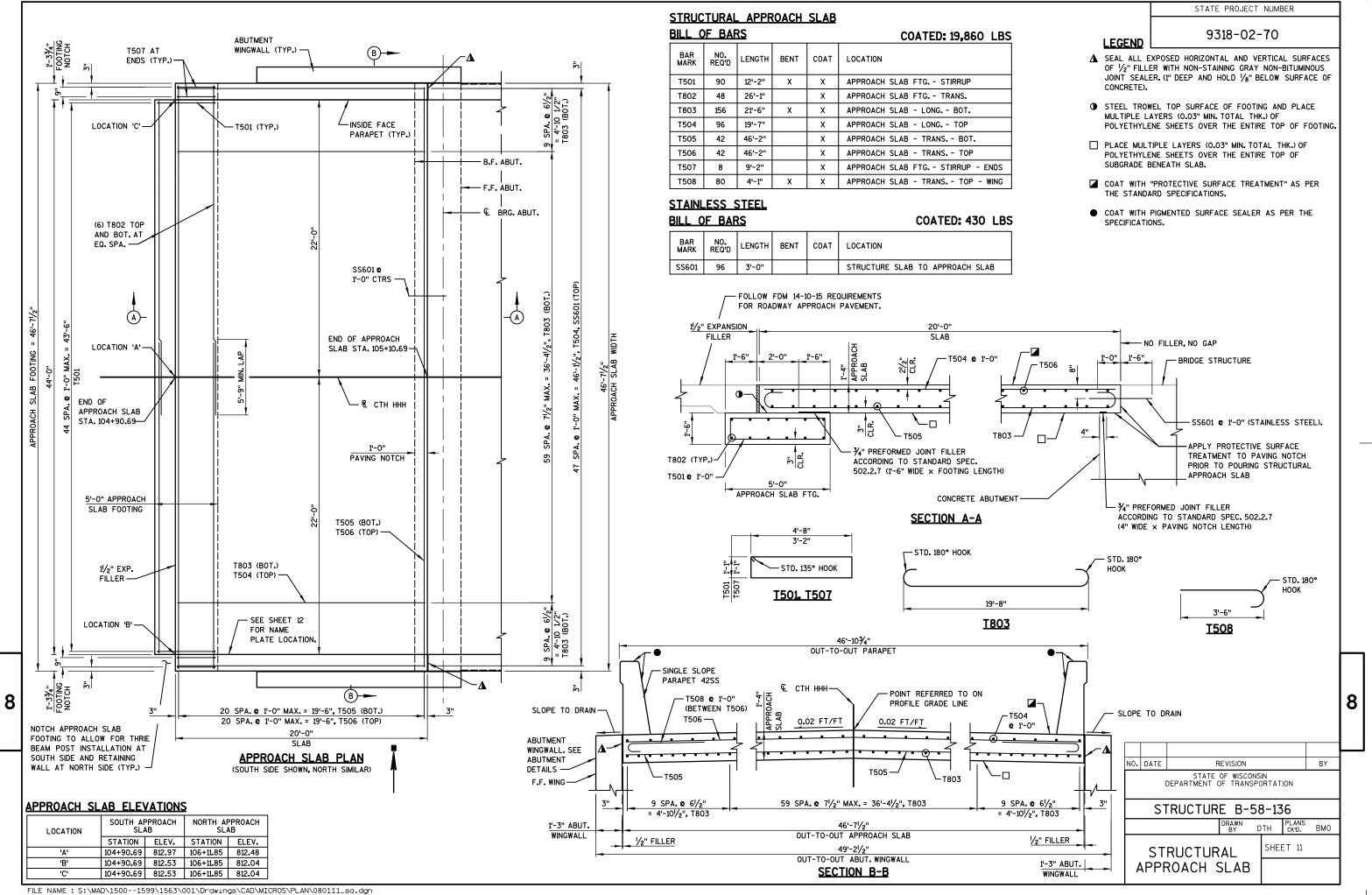
STATE PROJECT NUMBER

RK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION		
01	45	12'-0"	х		PIER - VERT.		
02	17	5'-4"	х		PIER - TOP - VERT.		
03	4	18'-0"			PIER - TOP - HORIZ.		
04	8	44'-7"			PIER - TOP & BOTTOM - HORIZ.		-
05	4	44'-7"			PIER - SIDES - HORIZ.		
06	4	5'-1"	х		PIER - ENDS - HORIZ.		
07	44	2'-0"		х	PIER - DOWELS - VERT.	18	3
08	80	23'-6"			PILING - VERT.		,
09	130	3'-11''	х		PILING - HORIZ.		

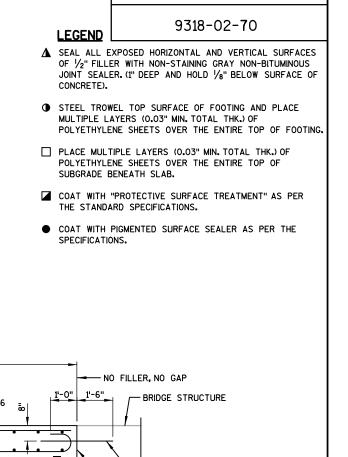


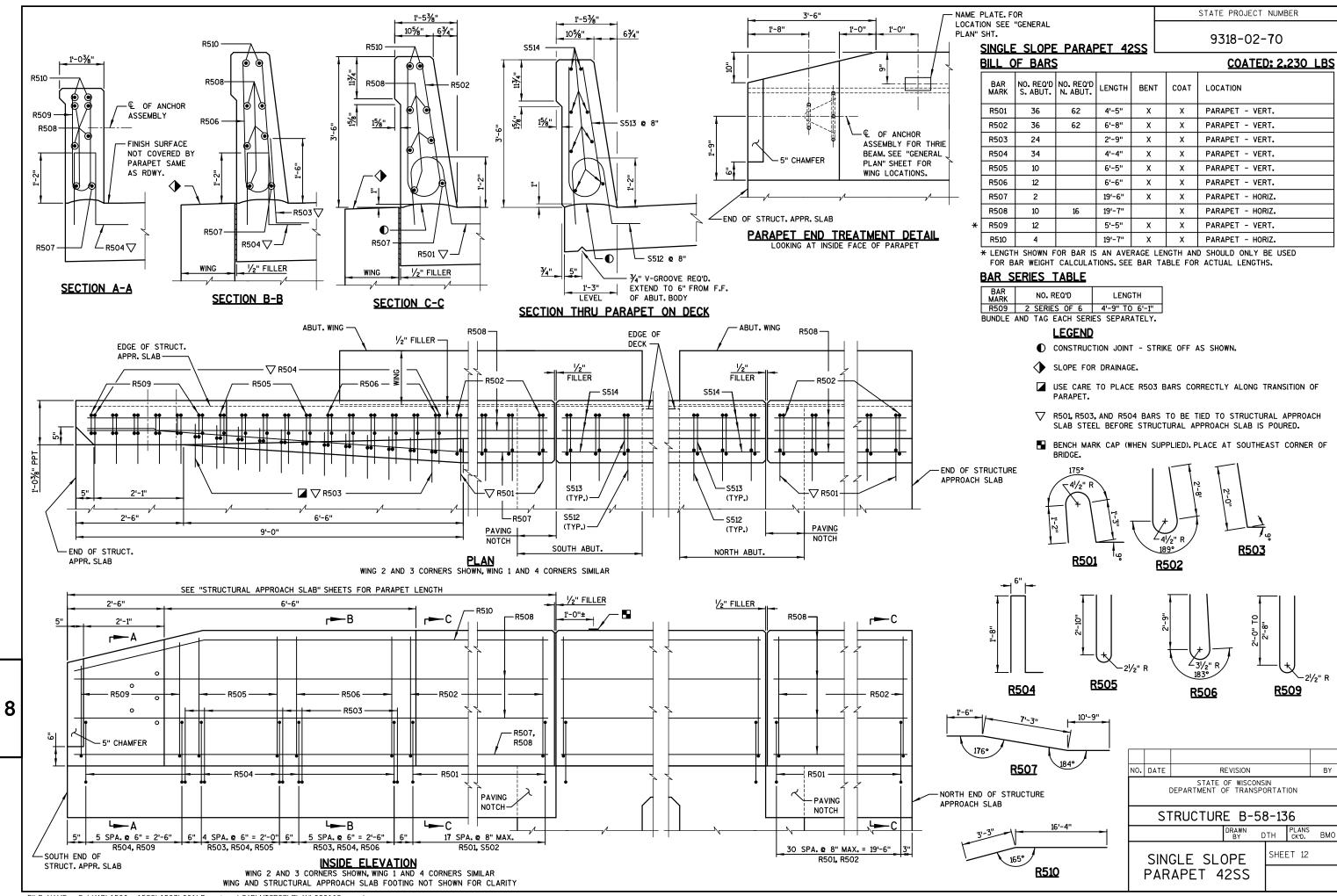


			STATE PRO	JECT NUMBER	
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		NOT			-
- TOP & E	POT		<b>LO</b> FRANSVERSE BARS IN SLA		
	501.		DIVIDUAL BAR CHAIRS AT		
- TOP			RS EACH WAY. BOTTOM L		
M			. BE SUPPORTED BY CON )XIMATELY 4'-0" CENTERS		
M				•	
			SLAB THICKNESS DIMENSIO RANCES NECESSARY TO C		
			EPANCIES ARE TO BE PLU		
TOP					
RT.		LEG	<u>END</u>		
RT.			GROOVE REQ'D. EXTEND	O 6" FROM F.F. OF	
RT.		ABUT.	DIAPHRAGMS.		
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	812.58 812.57	4			
	812.56	1			8
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55.27	812.53	]			
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	812.49 812.46				
	812.46	NO.	DATE REVISIO	DN BY	
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5461	~12.12.1		DRAW BY	N DTH PLANS CK'D. BMC	5 C
AME AS A	T EDGE	OF I			
SS" SHEET	FOR DE	TAIL). (	CROSS SECTIO		
			AND DETAILS		
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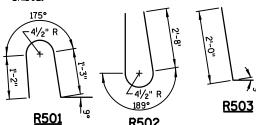
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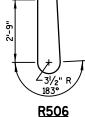
# COATED: 2.230 LBS

NO. REQ'D S. ABUT.	NO. REQ'D N. ABUT.	LENGTH	BENT	COAT	LOCATION
36	62	4'-5"	х	X	PARAPET - VERT.
36	62	6'-8"	х	Х	PARAPET - VERT.
24		2'-9"	х	X	PARAPET - VERT.
34		4'-4"	х	X	PARAPET - VERT.
10		6'-5"	х	X	PARAPET - VERT.
12		6'-6"	х	X	PARAPET - VERT.
2		19'-6"	х	x	PARAPET - HORIZ.
10	16	19'-7"		X	PARAPET - HORIZ.
12		5'-5"	x	X	PARAPET - VERT.
4		19'-7"	х	X	PARAPET - HORIZ.

NO. REQ'D	LENGTH			
2 SERIES OF 6	4'-9" TO 6'-1"			

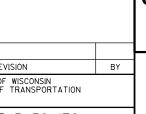
- $\bigtriangledown$  R501, R503, AND R504 BARS TO BE TIED TO STRUCTURAL APPROACH
- BENCH MARK CAP (WHEN SUPPLIED). PLACE AT SOUTHEAST CORNER OF

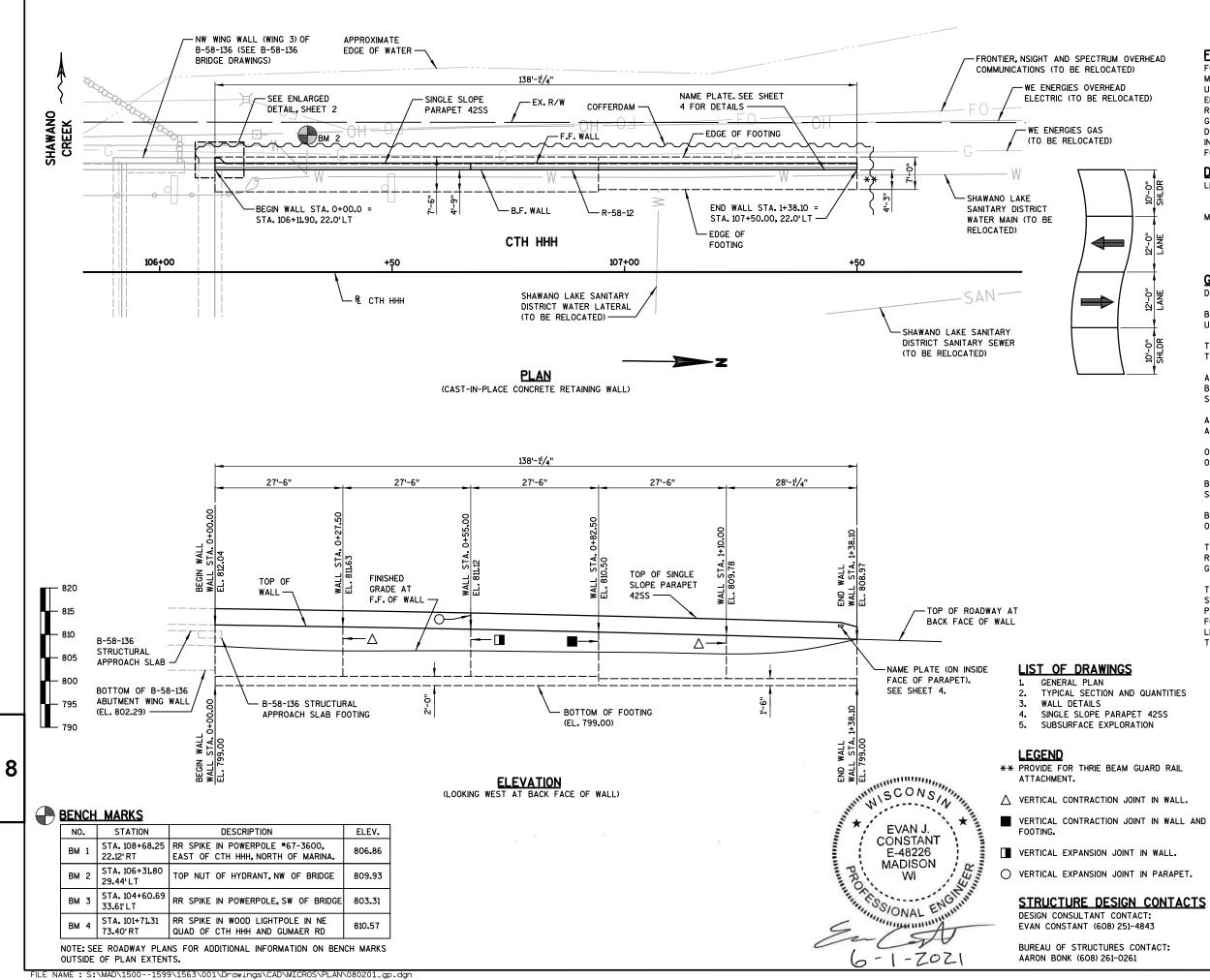












STATE PROJECT NUMBER

# 9318-02-70

# 58 빌봄 12'-0' LANE 12'-0" LANE 히뚭 힘분

# FOUNDATION DATA

FOOTING AT THE RETAINING WALL IS DESIGNED TO PLACE A MAXIMUM LOAD OF 2 TONS PER SQUARE FOOT ON THE UNDERLYING SOIL. SOILS AT THE RETAINING WALL FOOTING ELEVATIONS ARE ESTIMATED TO HAVE A FACTORED BEARING RESISTANCE OF 3.8 TONS PER SQUARE FOOT. THE REGIONAL GEOTECHNICAL ENGINEER, WITH THREE DAYS NOTICE, WILL DETERMINE THE FACTORED BEARING RESISTANCE BY VISUAL INSPECTION PRIOR TO CONSTRUCTION OF THE RETAINING WALL FOOTING.

DESIGN	DATA
LIVE LOAD:	

LIVE LOAD SURCHARGE \_\_\_\_240 PSF

ATERIAL PROPERTIES:					
CONCRETE PARAPET.		_f'c	=	4,000	PSI
CONCRETE RETAINING	WALL	_f'c	=	3,500	PSI
HIGH STRENGTH BAR	STEEL				
REINFORCEMENT		_fy	=	60,000	PSI

### **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

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

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

AT THE BACKFACE OF THE WALL ALL VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

ALL RETAINING WALL STATIONS AND OFFSETS ARE MEASURED ALONG CTH HHH REFERENCE LINE.

OFFSETS ARE MEASURED TO THE BACK FACE (ROADWAY SIDE) OF THE RETAINING WALL.

BEVEL EXPOSED EDGES OF CONCRETE  $\frac{3}{4}$ ", UNLESS NOTED OR SHOWN OTHERWISE.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES RETAINING WALLS R-58-12" SHALL BE THE EXISTING GROUNDLINE.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED FOR THE ENTIRE WALL LENGTH. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

	BY			ISION	REV		DATE	NO.	
8		I		655 FAX	DISON, W 8)-251-4	MA (60) (60)	STRAND ASSOCIATES		
Ľ	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION CCEPTED CHIEF STRUCTURES DESIGN ENGINEER DATE								
		2	58-1	R-	JRE	UCTI	STR		
		58-136	OF B-	INSION	. EXTE	G WALL	NW WIN		
	ESCOTT	. <del>AGE</del> WE	TY/VILI	TOWN/C	ANO	SHAWA	NTY	COU	
		TIONS	ECIFICA	SIGN SP	GE DES	D BRID	GN SPEC. SHTO LRF		
	BMO	PLANS CK'D.	DTH	DRAWN BY	BMO	DESIGN CK'D.	GNED KRB	DES BY	
	0F 5	ET 1	SHE		AL	ENEF	G		
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# TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
206.3000	EXCAVATION FOR STRUCTURES RETAINING WALLS R-58-12	LS	1
206.5000	COFFERDAMS R-58-12	LS	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	718
311.0110	BREAKER RUN	TON	77
502.3210	PIGMENTED SURFACE SEALER	SY	69
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	151
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	3,920
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	11,720
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	7
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	160
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	1
645.0140	GEOTEXTILE TYPE SAS	SY	171
	NON-BID ITEMS		
	FILLER	SIZE	3/4"

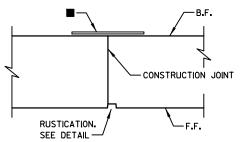
TOP OF PARAPET. SEAL ALL EXPOSED

SURFACE OF CONCRETE.-

WITH NON-STAINING GRAY NON-BITUMINOUS

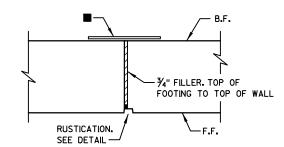
### **ELEVATION TABLE**

R/L CTH HHH STA.	WALL STA.	TOP OF WALL EL.	BOTTOM OF FTG.EL.	FINISHED GRADE EL.
106+11.90	0+00.00	812.04	799.00	806.84
106+36.90	0+25.00	811.67	799.00	806.69
106+39.40	0+27.50	811.63	799.00	806.67
106+61.90	0+50.00	811.22 799.00		806.46
106+66.90	0+55.00	811.12 799.00		806.40
106+86.90	0+75.00	810.68	799.00	806.16
106+94.40	0+82.50	810.50	799.00	806.25
107+11.90	1+00.00	810.06	799.00	806.77
107+21.90	1+10.00	809.78	809.78 799.00 8	
107+36.90	1+25.00	809.35	809.35 799.00	
107+50.00	1+38.10	808.97	799.00	809.23

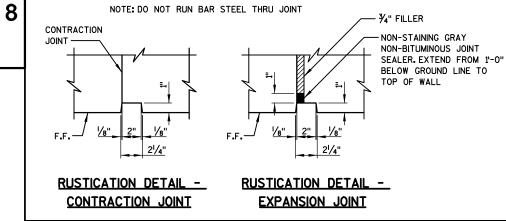


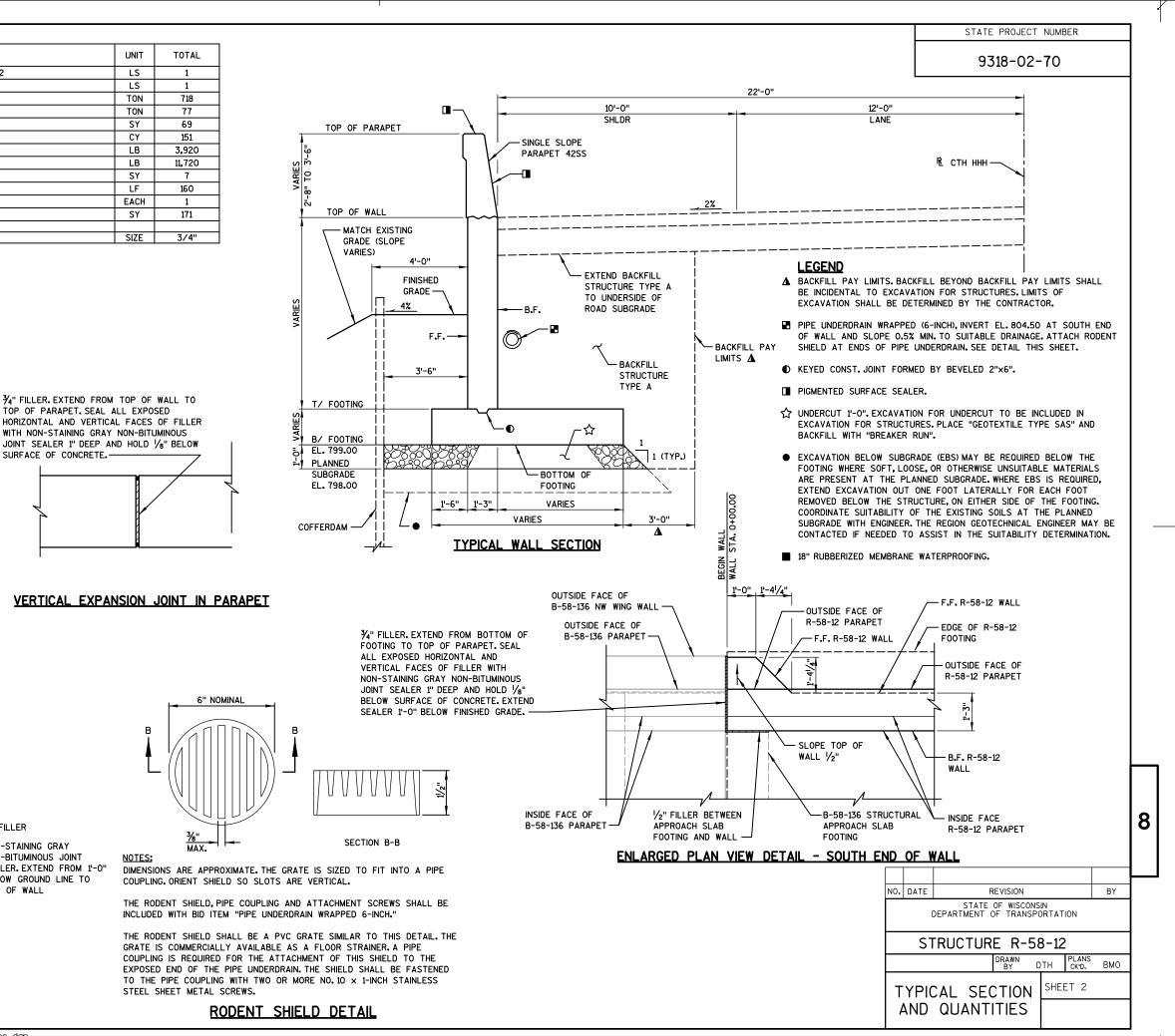
# VERTICAL CONTRACTION JOINT IN WALL

NOTE: DO NOT RUN BAR STEEL THRU JOINT



VERTICAL EXPANSION JOINT IN WALL



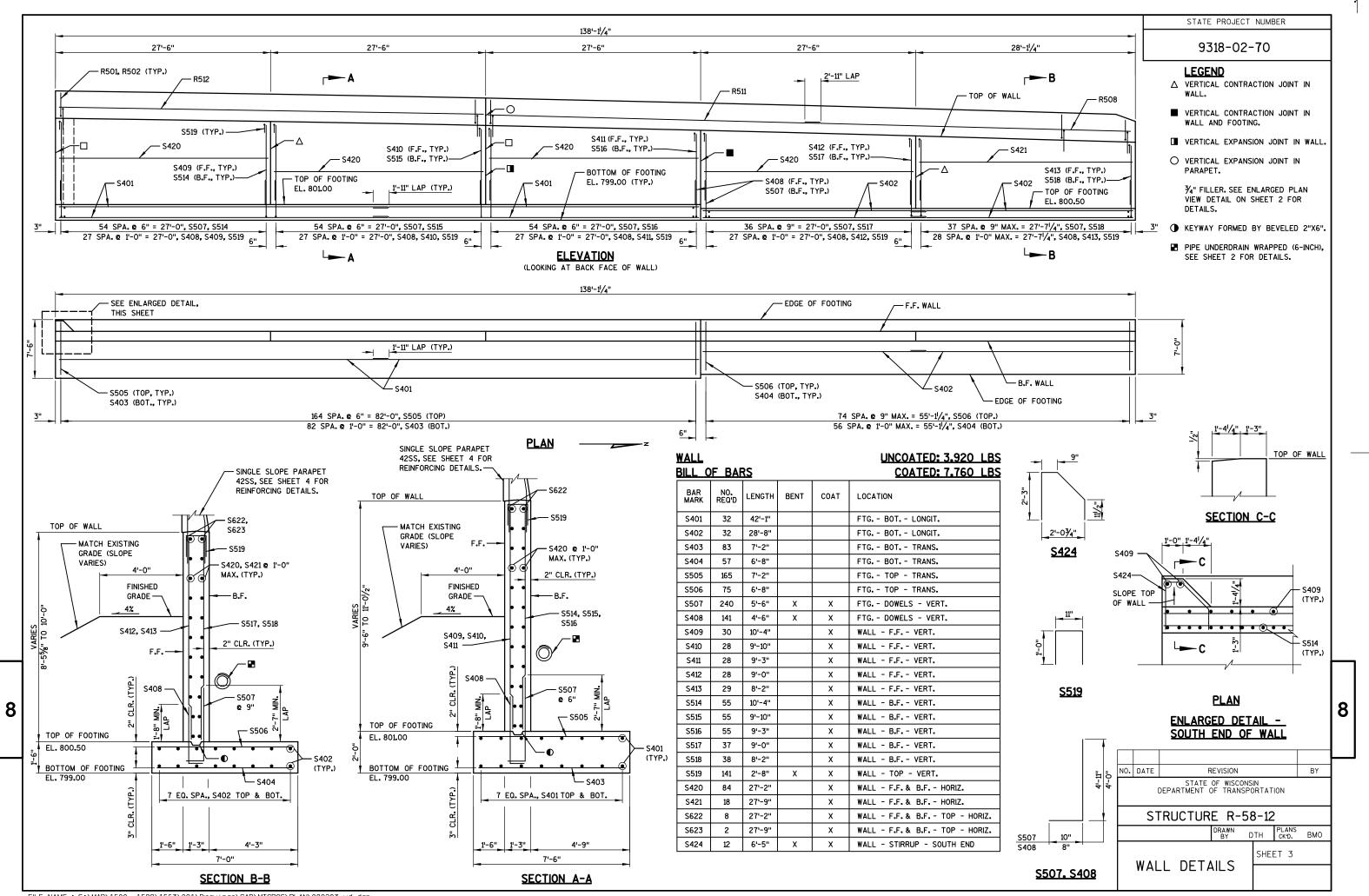


NOTES; DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SHIELD SO SLOTS ARE VERTICAL.

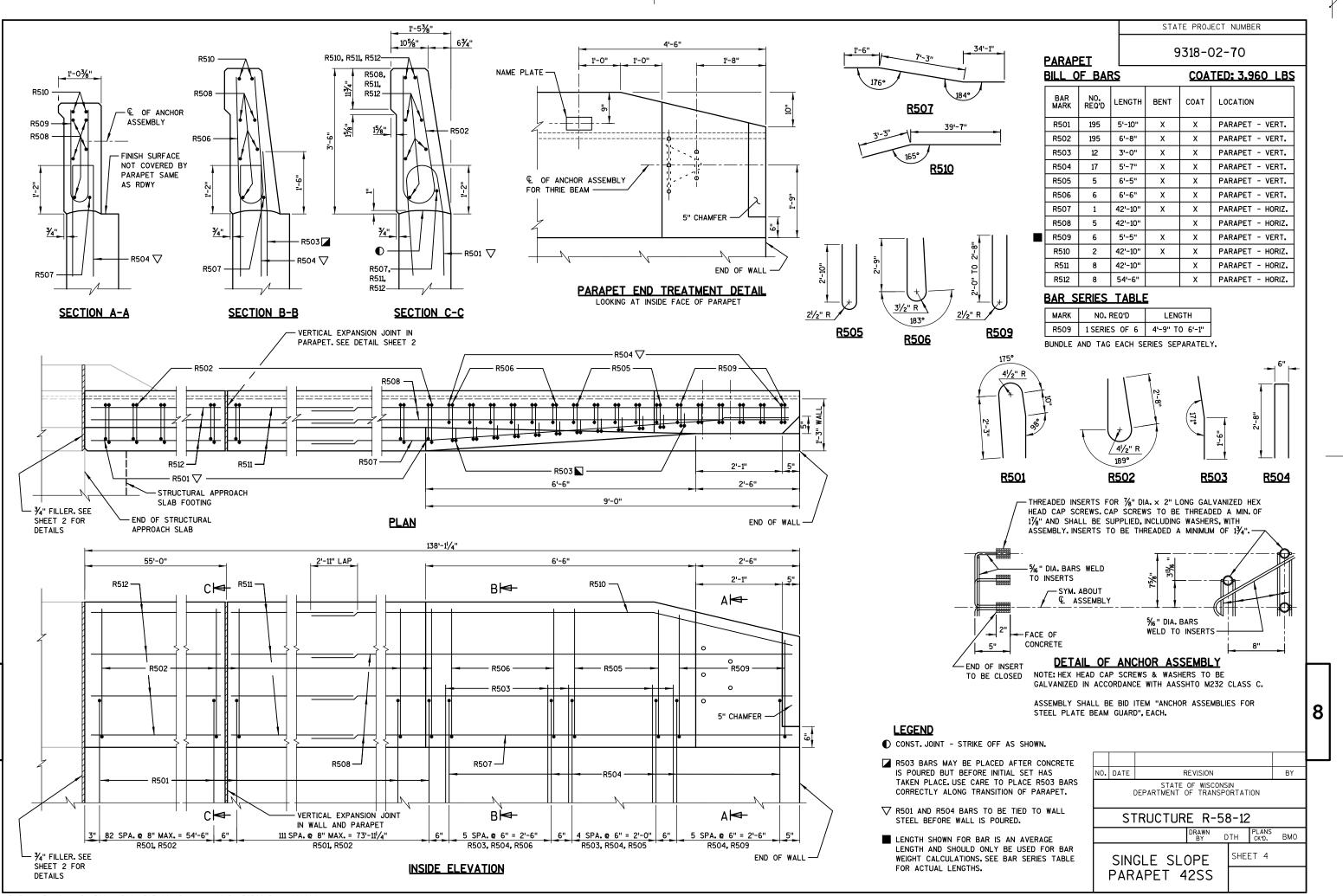
THE RODENT SHIELD, PIPE COUPLING AND ATTACHMENT SCREWS SHALL BE INCLUDED WITH BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH."

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 × 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

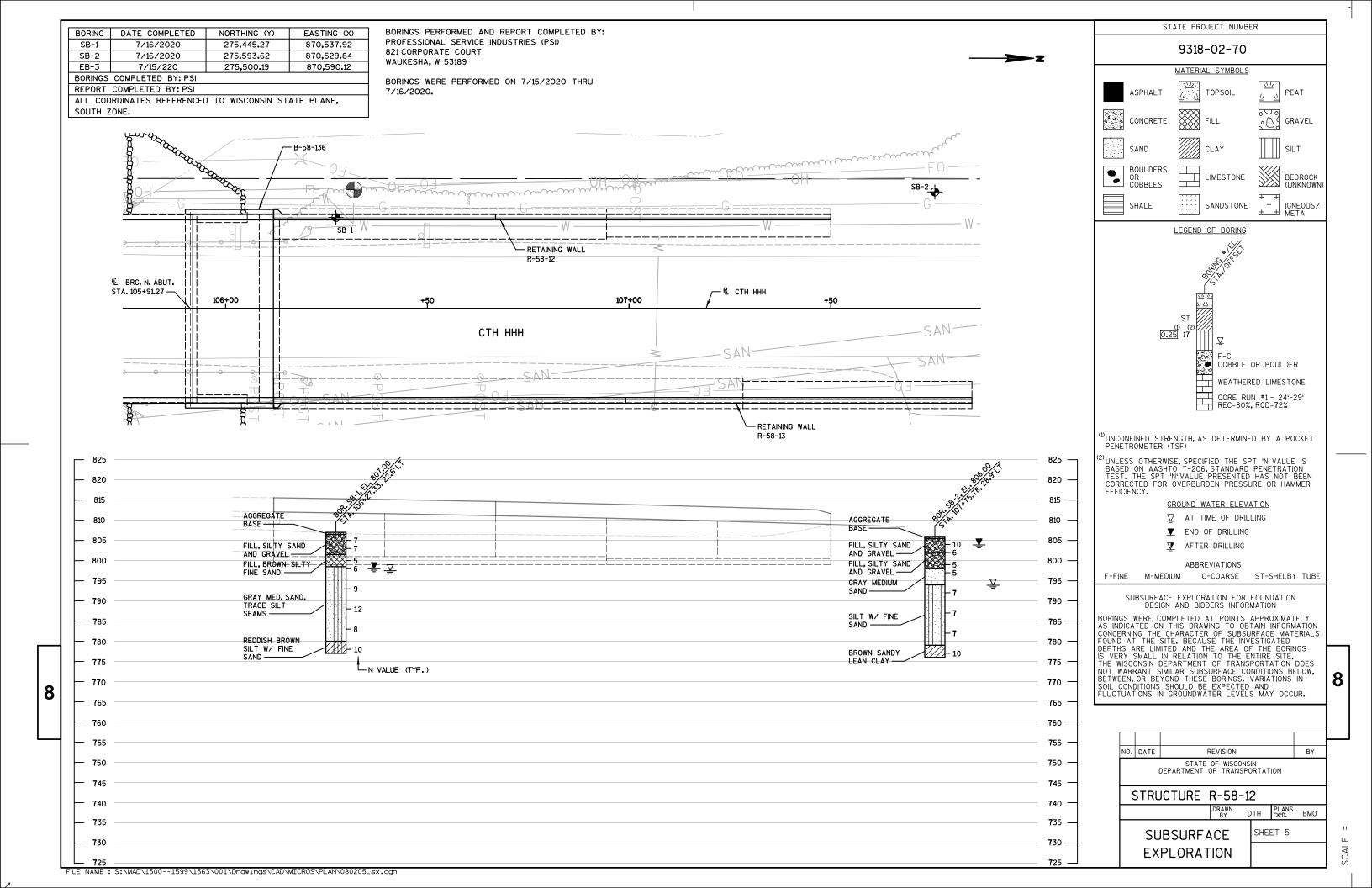
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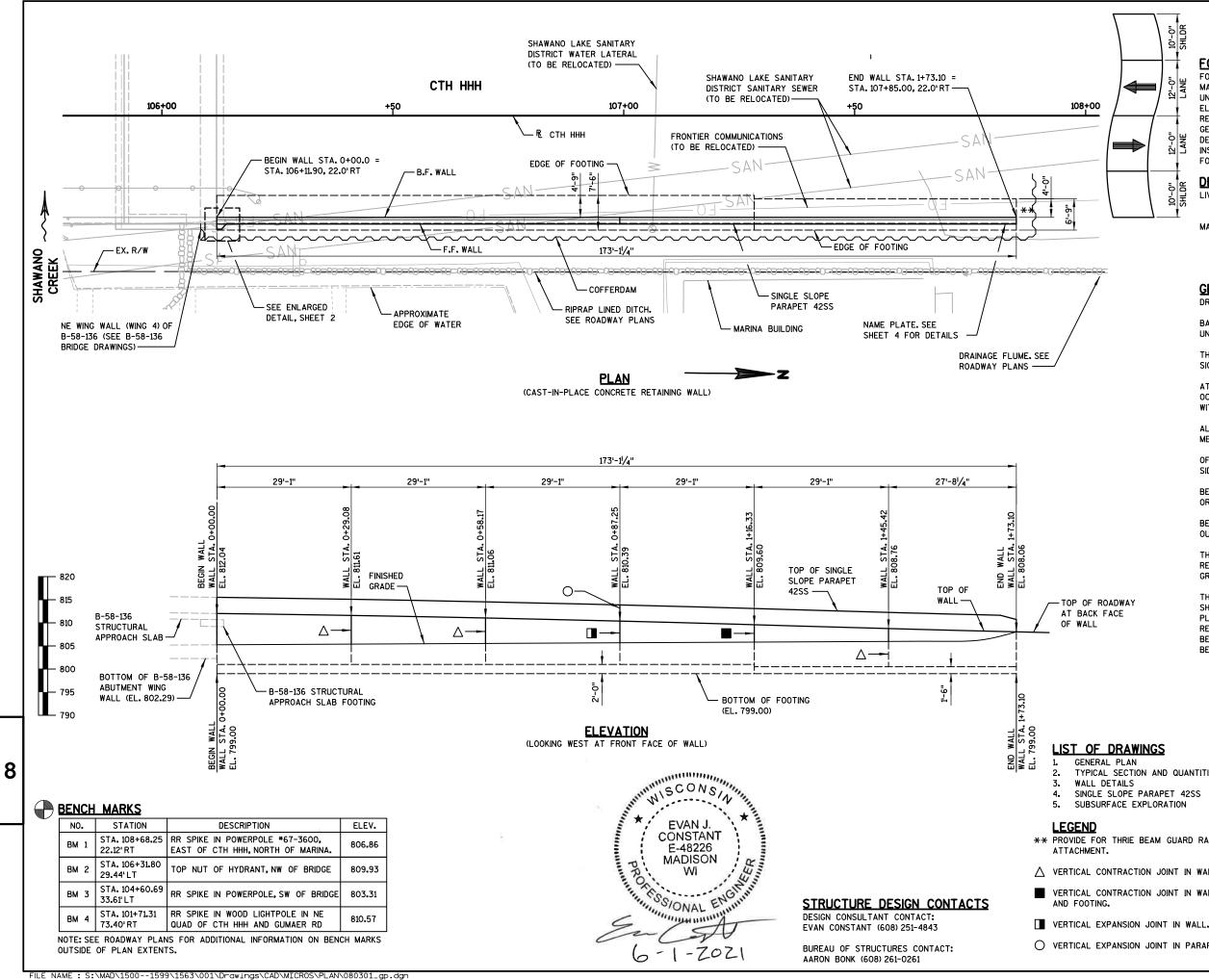


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STATE PROJECT NUMBER

9318-02-70

# FOUNDATION DATA

FOOTING AT THE RETAINING WALL IS DESIGNED TO PLACE A MAXIMUM LOAD OF 2 TONS PER SQUARE FOOT ON THE UNDERLYING SOIL, SOILS AT THE RETAINING WALL FOOTING ELEVATIONS ARE ESTIMATED TO HAVE A FACTORED BEARING RESISTANCE OF 3.8 TONS PER SQUARE FOOT. THE REGIONAL GEOTECHNICAL ENGINEER, WITH THREE DAYS NOTICE, WILL DETERMINE THE FACTORED BEARING RESISTANCE BY VISUAL INSPECTION PRIOR TO CONSTRUCTION OF THE RETAINING WALL FOOTING.

### DESIGN DATA LIVE LOAD:

LIVE LOAD SURCHARGE 240 PSF

MATERIAL PROPERTIES:	
CONCRETE PARAPET	f'c = 4,000 PSI
CONCRETE RETAINING WALL	f'c = 3,500 PSI
HIGH STRENGTH BAR STEEL	
REINFORCEMENT	fy = 60,000 PSI

**GENERAL NOTES** 

DRAWINGS SHALL NOT BE SCALED.

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

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

AT THE BACKFACE OF THE WALL ALL VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

ALL RETAINING WALL STATIONS AND OFFSETS ARE MEASURED ALONG CTH HHH REFERENCE LINE.

OFFSETS ARE MEASURED TO THE BACK FACE (ROADWAY SIDE) OF THE RETAINING WALL.

BEVEL EXPOSED EDGES OF CONCRETE  $\frac{3}{4}$ ", UNLESS NOTED OR SHOWN OTHERWISE.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES RETAINING WALLS R-58-13" SHALL BE THE EXISTING GROUNDLINE.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED FOR THE ENTIRE WALL LENGTH. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

	NO.	DATE				-1/1	SION			_	ВҮ	,	
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# TOTAL ESTIMATED QUANTITIES

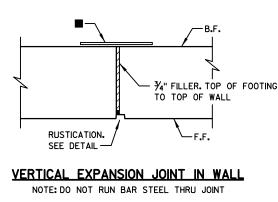
BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
206.3000	EXCAVATION FOR STRUCTURES RETAINING WALLS R-58-13	LS	1
206.5000	COFFERDAMS R-58-13	LS	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	848
311.0110	BREAKER RUN	TON	96
502.3210	PIGMENTED SURFACE SEALER	SY	86
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	186
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	4,890
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	14,810
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	8
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	190
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	1
645.0140	GEOTEXTILE TYPE SAS	SY	214
	NON-BID ITEMS		
	FILLER	SIZE	3/4"

# ELEVATION TABLE

R/L CTH HHH STA.	WALL STA.	TOP OF WALL EL.	BOTTOM OF FTG.EL.	FINISHED GRADE EL.
106+11.90	0+00.00	812.04	799.00	805.66
106+36.90	0+25.00	811.67	799.00	805.52
106+40.98	0+29.08	811.61	799.00	805.51
106+61.90	0+50.00	811.22	799.00	805.43
106+70.07	0+58.17	811.06	799.00	805.42
106+86.90	0+75.00	810.68	799.00	805.40
106+99.15	0+87.25	810.39	799.00	805.38
107+11.90	1+00.00	810.06	799.00	805.51
107+28.23	1+16.33	809.60	799.00	805.64
107+36.90	1+25.00	809.35	799.00	805.79
107+57.32	1+45.42	808.76	799.00	806.50
107+61.90	1+50.00	808.64	799.00	806.75
107+85.00	1+73.10	808.06	799.00	808.32

-CONSTRUCTION JOINT RUSTICATION. SEE DETAIL -

VERTICAL CONTRACTION JOINT IN WALL NOTE: DO NOT RUN BAR STEEL THRU JOINT



8

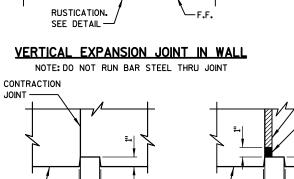
<u>/8" \_</u> 2"

F.F. ----

1/8"

21/4"

CONTRACTION JOINT



RUSTICATION DETAIL -RUSTICATION DETAIL -**EXPANSION JOINT** 

<u>%"</u>

21/4"

1/8'

VERTICAL EXPANSION JOINT IN PARAPET

- ¾" FILLER

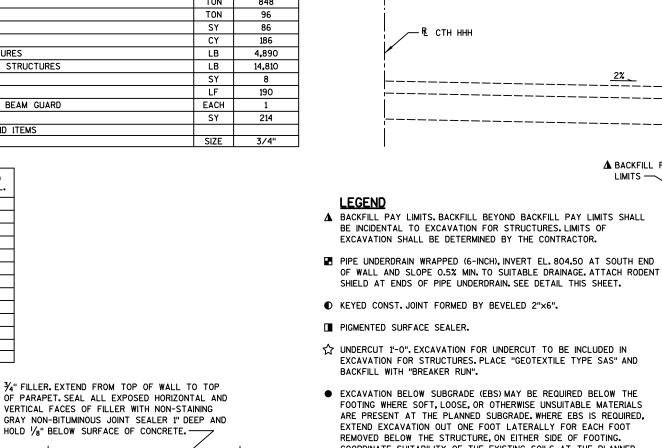
NON-STAINING GRAY

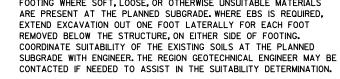
TOP OF WALL

NON-BITUMINOUS JOINT

SEALER, EXTEND FROM 6"

BELOW GROUND LINE TO





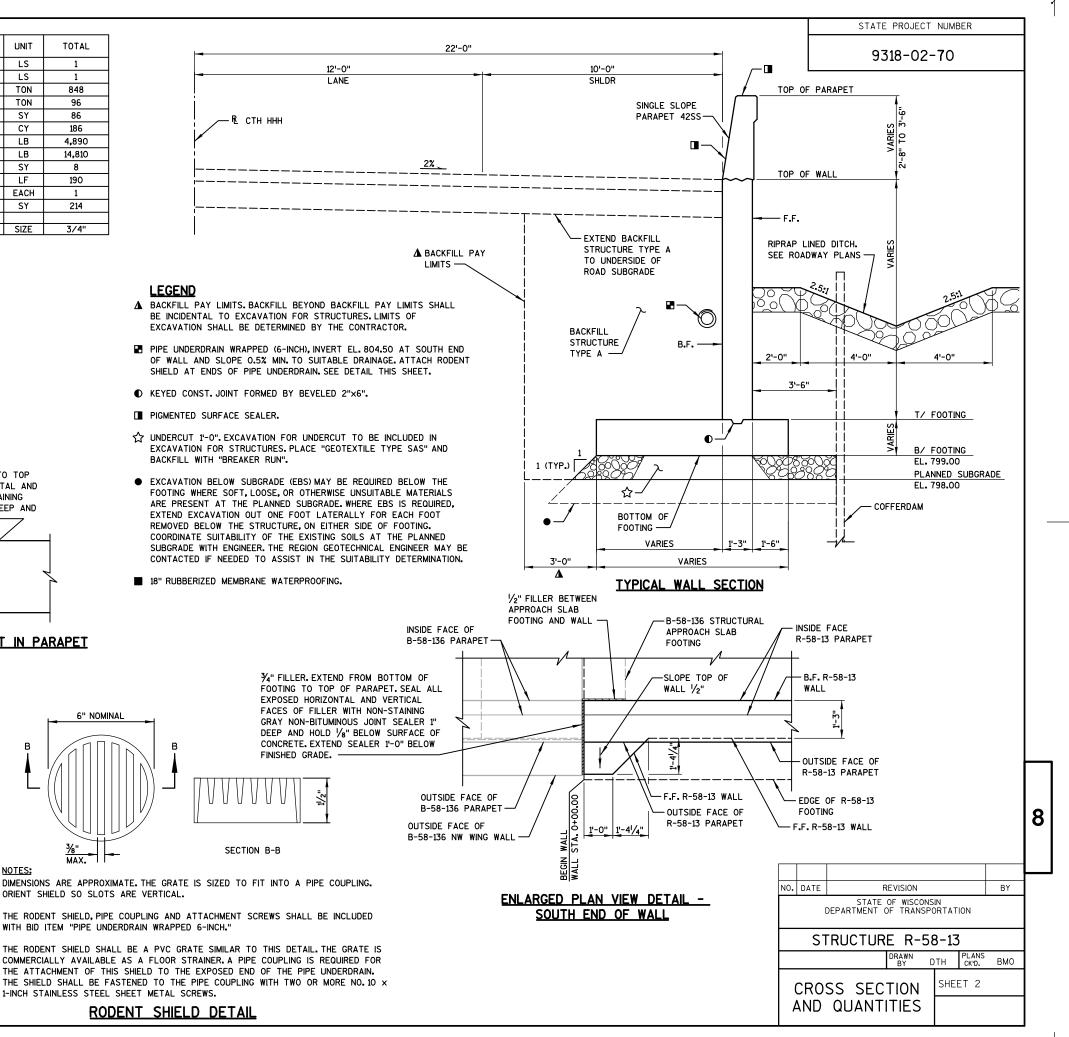
FINISHED GRADE.

SECTION B-B

12'-0"

LANE

■ 18" RUBBERIZED MEMBRANE WATERPROOFING.



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.

# RODENT SHIELD DETAIL

6" NOMINAL

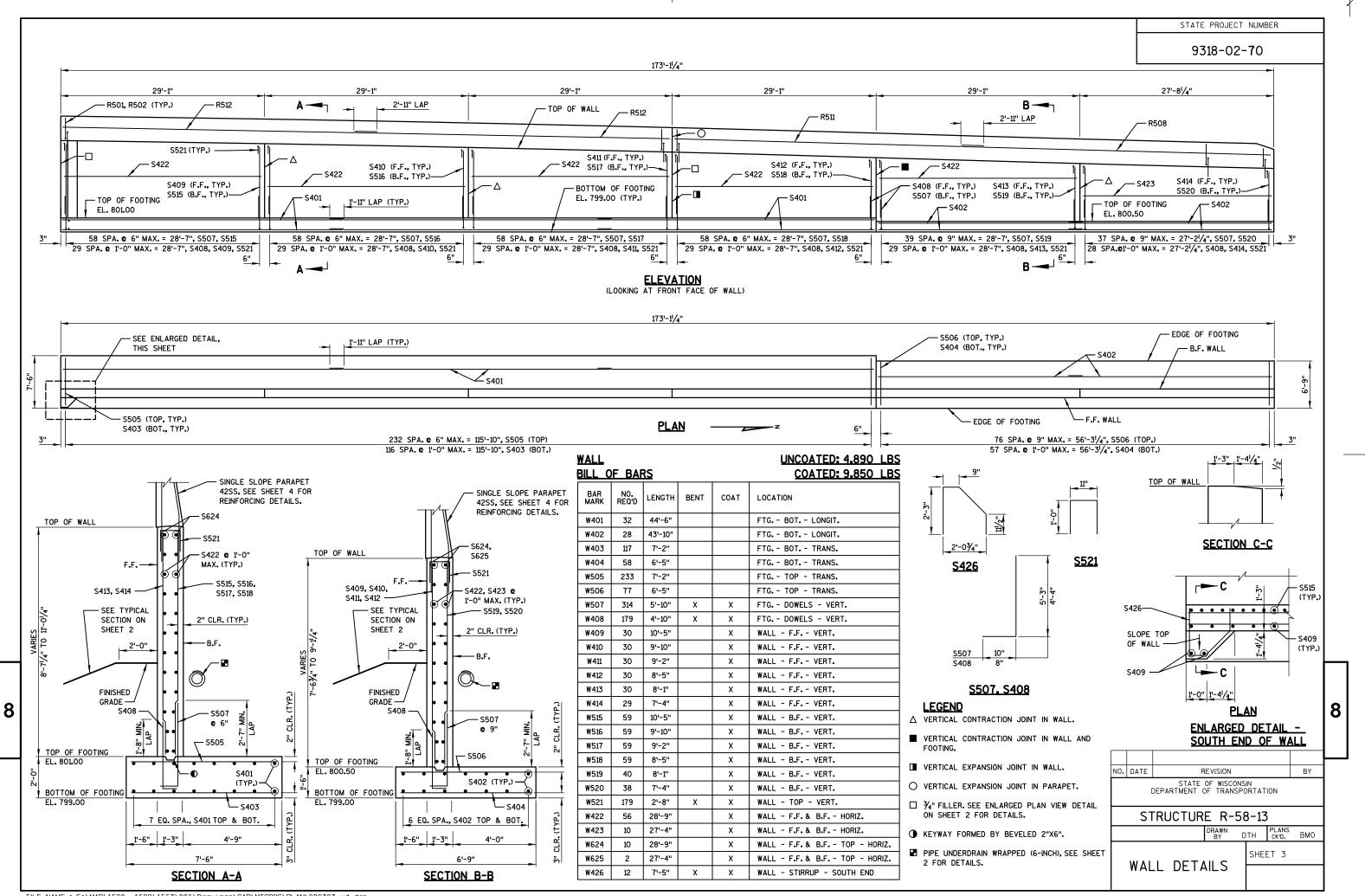
MAX.

ORIENT SHIELD SO SLOTS ARE VERTICAL.

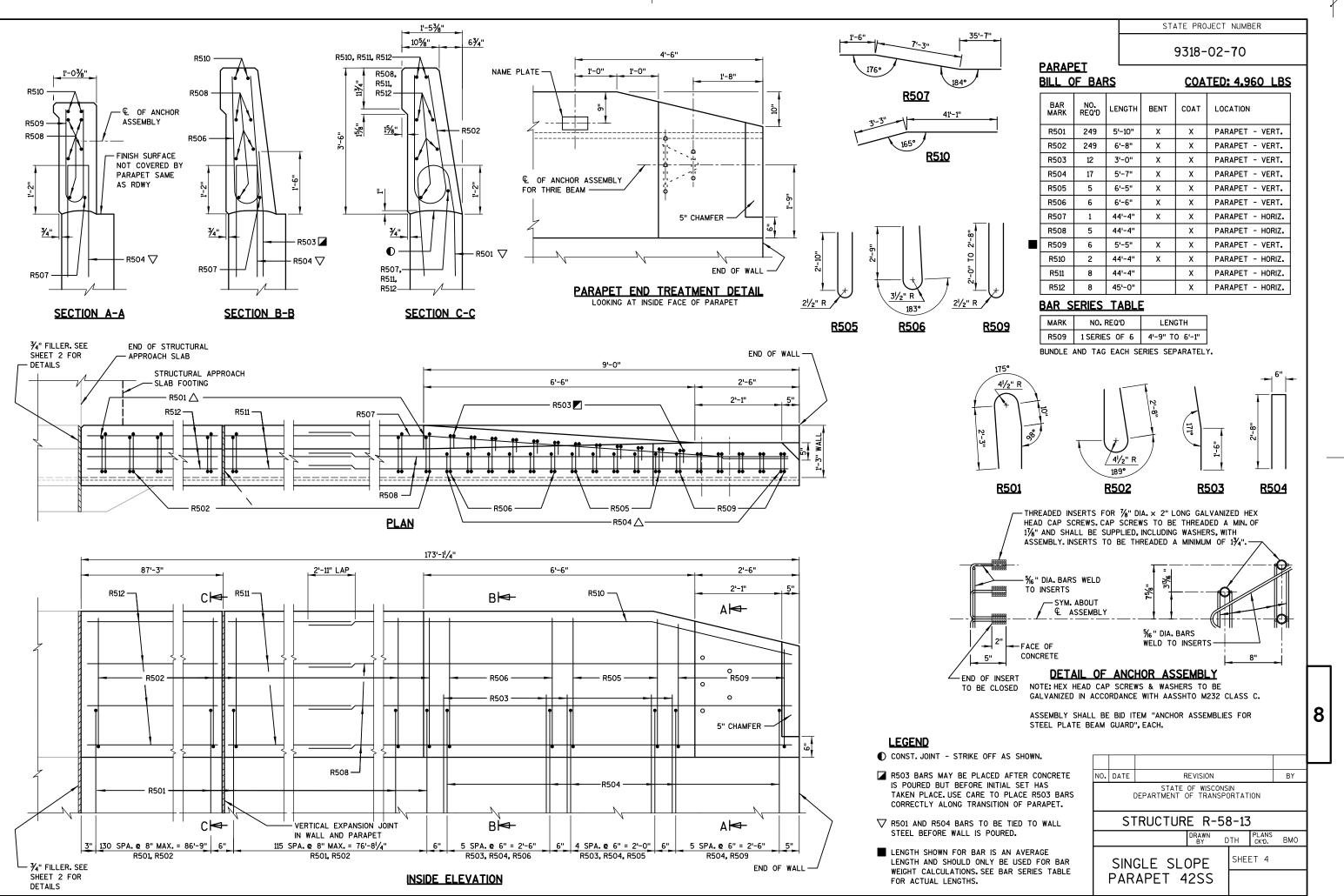
WITH BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH."

NOTES:

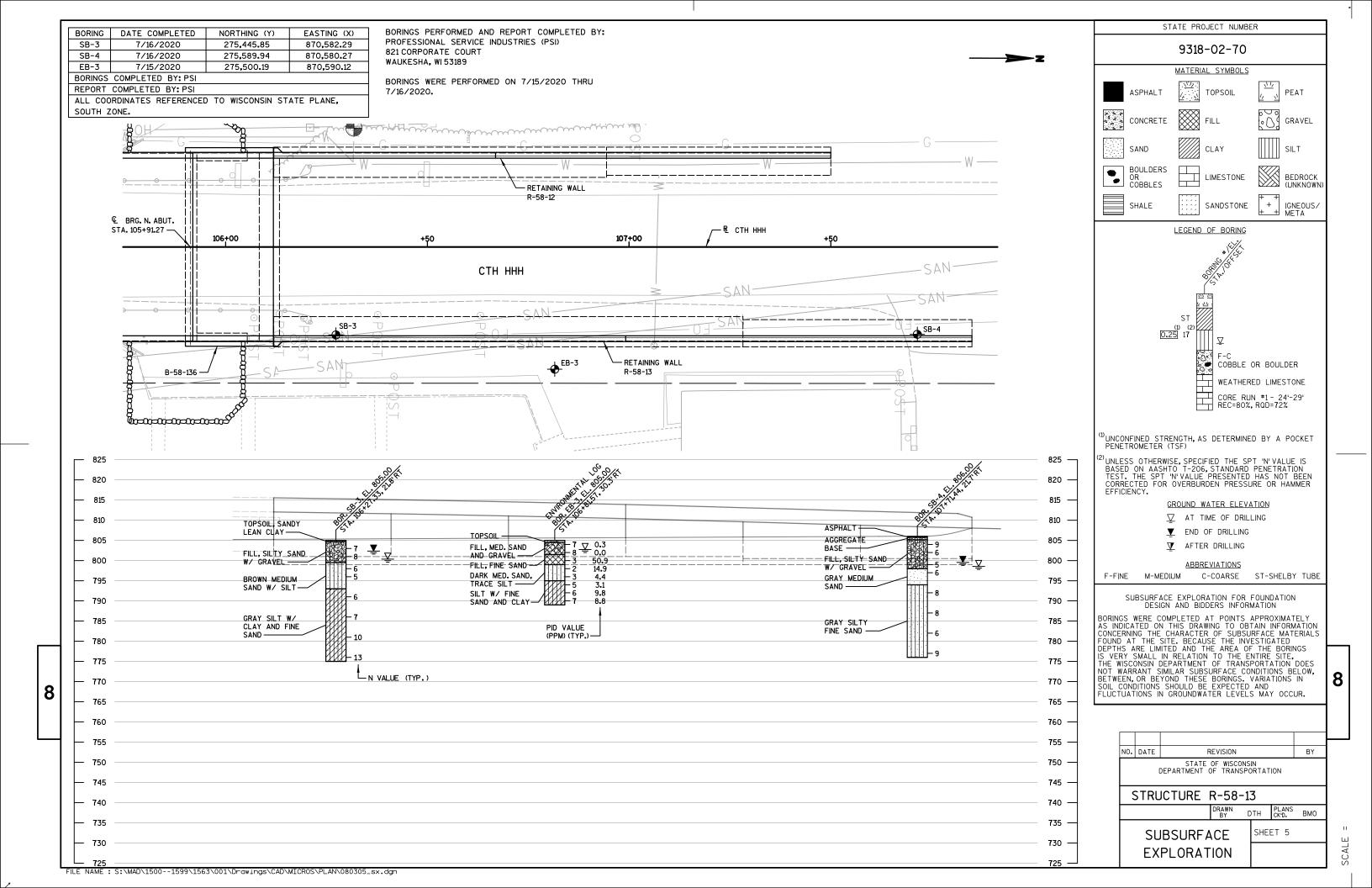
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FILE NAME : S:\MAD\1500--1599\1563\001\Drawings\CAD\MICROS\PLAN\080304\_ss.dgn



СТН ННН		AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			UNUSABLE			AVAILABLE		UNUSABLE			AVAILABLE			STRUCTURE	-
			PAVEMENT			STRUCTURE		PAVEMENT			STRUCTURE	СИТ	EXPANDED	EXCAVATION	MASS
		CUT	MATERIAL	FILL	EBS	EXCAVATION	CUT	MATERIAL	FILL		EXCAVATION	1.00	FILL	1.00	ORDINATE
STATION	DISTANCE	NOTE 1	NOTE 2	NOTE 3	(5% OF CUT)	NOTE 4	NOTE 1	NOTE 2	NOTE 3	EBS	NOTE 4	NOTE 1	1.25	NOTE 4	NOTE 5
102+63		53.6	8.0	0.0	2.6	0.0	0	0	0	0	0	0	0	0	0
103+00	38	61.0	8.0	0.0	2.9	0.0	80	11	0	4	0	80	0	0	65
103+50	50	41.7	8.0	2.3	2.0	0.0	95	15	2	5	0	175	3	0	138
104+00	50	16.4	8.0	89.8	0.8	0.0	54	15	85	3	0	228	109	0	68
104+01	1	16.1	3.3	91.1	0.8	0.0	0	0	2	0	0	229	112	0	65
104+26	25	4.0	3.3	99.7	0.2	0.0	9	3	88	0	0	238	222	0	-40
104+50	24	0.0	0.0	120.2	0.0	0.0	2	1	99	0	0	240	346	0	-163
104+51	1	0.0	3.3	119.9	0.0	0.0	0	0	3	0	0	240	350	0	-167
104+91	40	51.2	3.3	0.3	2.4	22.7	38	5	89	2	17	278	461	17	-230
106+12		37.1	0.0	0.0	1.8	471.2	0	0	0	0	0	278	461	17	-230
106+50	38	13.3	0.0	24.9	0.6	415.0	36	0	18	2	626	313	483	643	408
107+00	50	11.2	0.0	14.7	0.5	372.9	23	0	37	1	730	336	529	1,373	1,113
107+50	50	15.5	8.0	11.8	0.7	175.7	25	7	25	1	508	361	560	1,881	1,607
107+90	40	35.1	8.0	4.2	1.7	0.0	38	12	12	2	130	399	575	2,011	1,746
108+00	10	38.8	8.0	3.7	1.8	0.0	14	3	1	1	0	412	577	2,011	1,754
108+15	15	48.0	8.0	1.0	2.3	0.0	24	4	1	1	0	436	578	2,011	1,771
108+25	10	52.1	8.0	0.3	2.5	0.0	19	3	0	1	0	455	579	2,011	1,785
108+40	15	61.1	8.0	0.9	2.9	0.0	31	4	0	1	0	486	579	2,011	1,810
108+50	10	63.6	8.0	0.4	3.0	0.0	23	3	0	1	0	509	579	2,011	1,829
108+75	25	65.7	8.0	0.0	3.1	0.0	60	7	0	3	0	569	580	2,011	1,879
109+00	25	60.3	8.0	0.0	2.9	0.0	58	7	0	3	0	628	580	2,011	1,927
					COLUMN	TOTALS	628	102	464	30	2,011		•	•	•

NOTES:

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1) CUT: CUT INCLUDES EBS AND SALVAGED PAVEMENT MATERIAL.EBS = 5% OF CUT

2) SALVAGED/UNUSABLE PAVEMENT MATERIAL: NOT SHOWN IN CROSS SECTIONS

3) FILL: FILL DOES NOT INCLUDE SALVAGED/UNUSABLE PAVEMENT MATERIAL

4) AVAILABLE STRUCTURE EXCAVATION IS FOR INFORMATION ONLY AND IS INCLUDED IN BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-58-136"

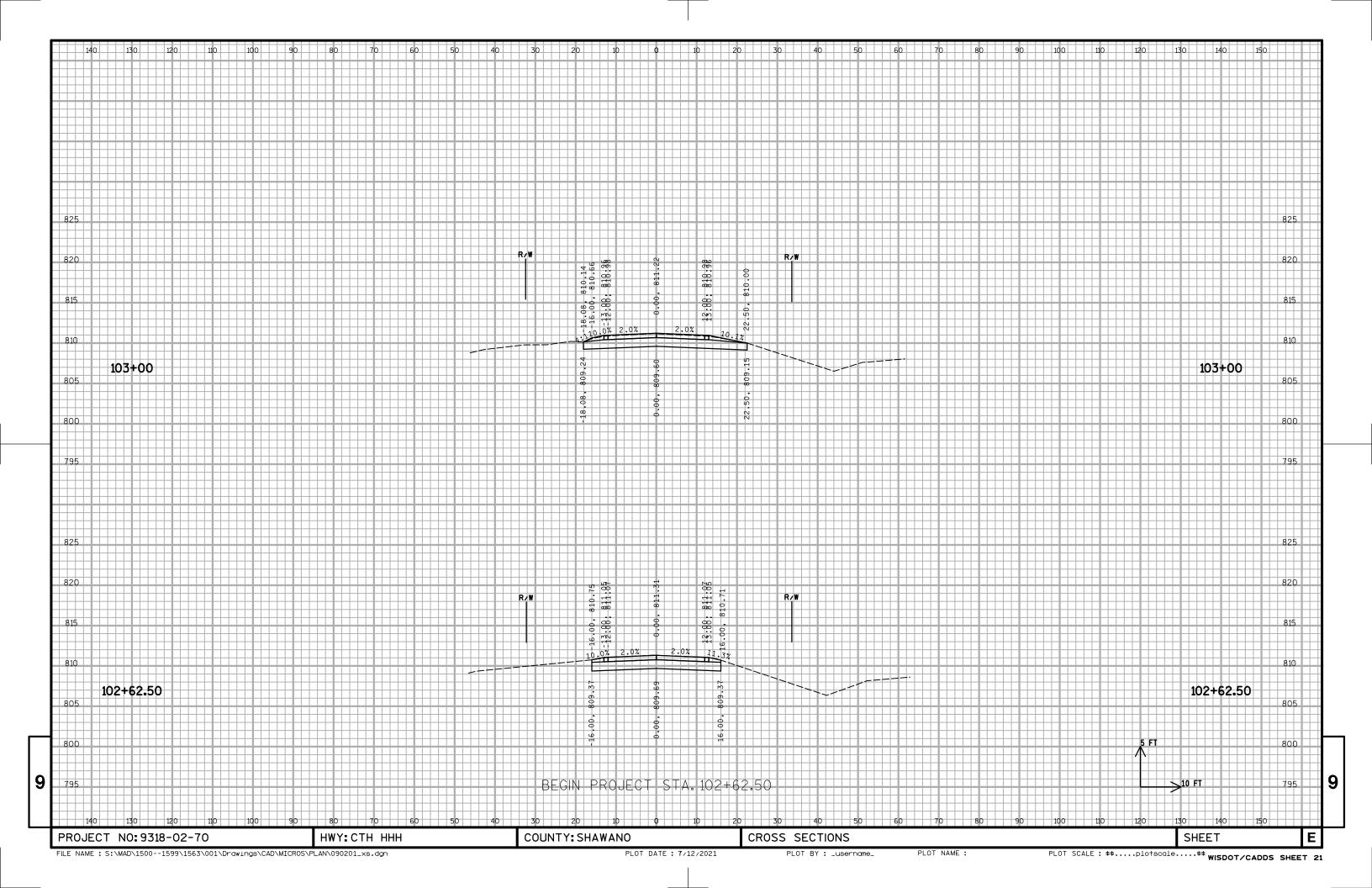
5) MASS ORDINATE: MASS ORDINATE = (CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL) - (FILL \* FILL FACTOR)

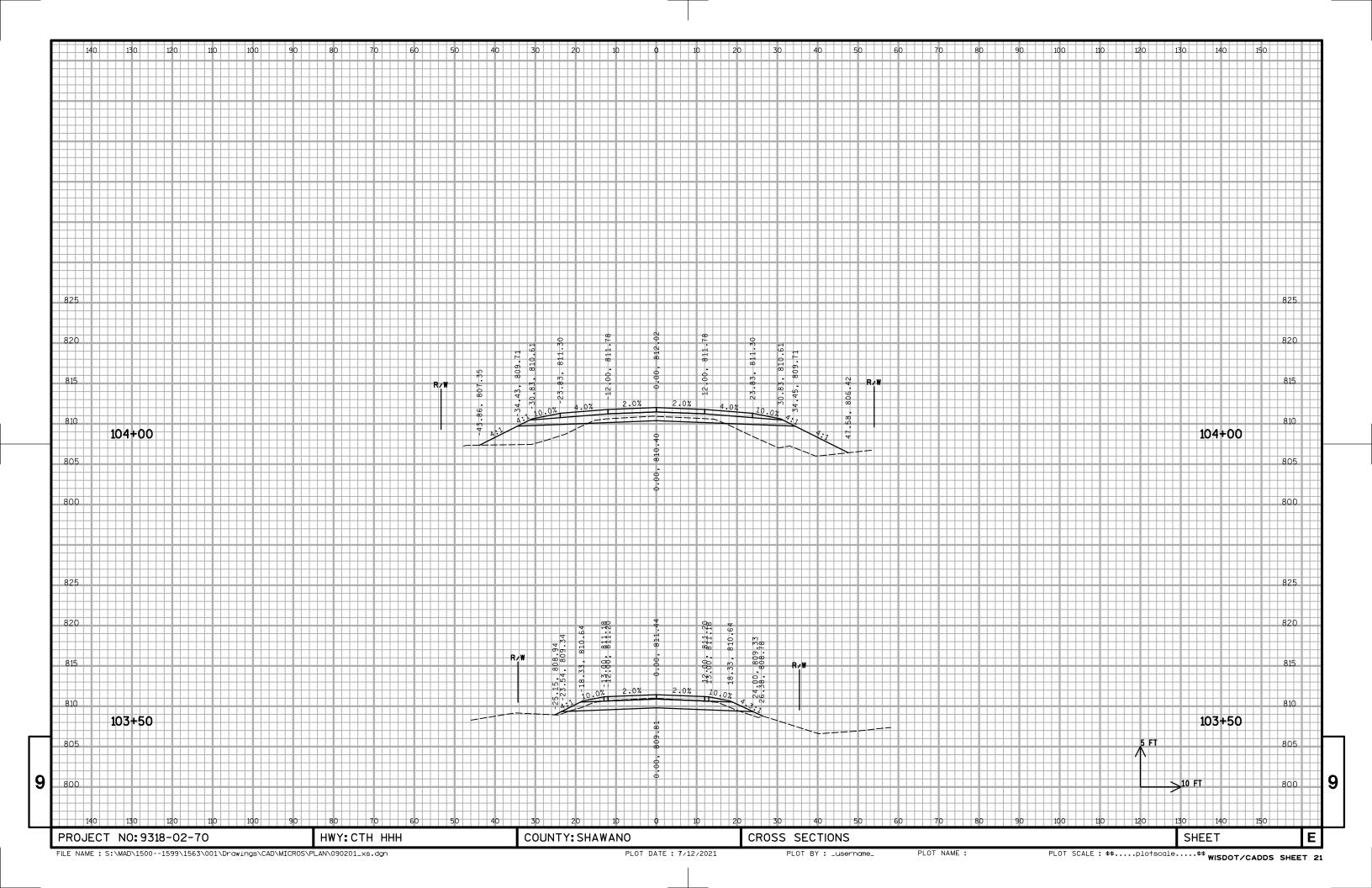
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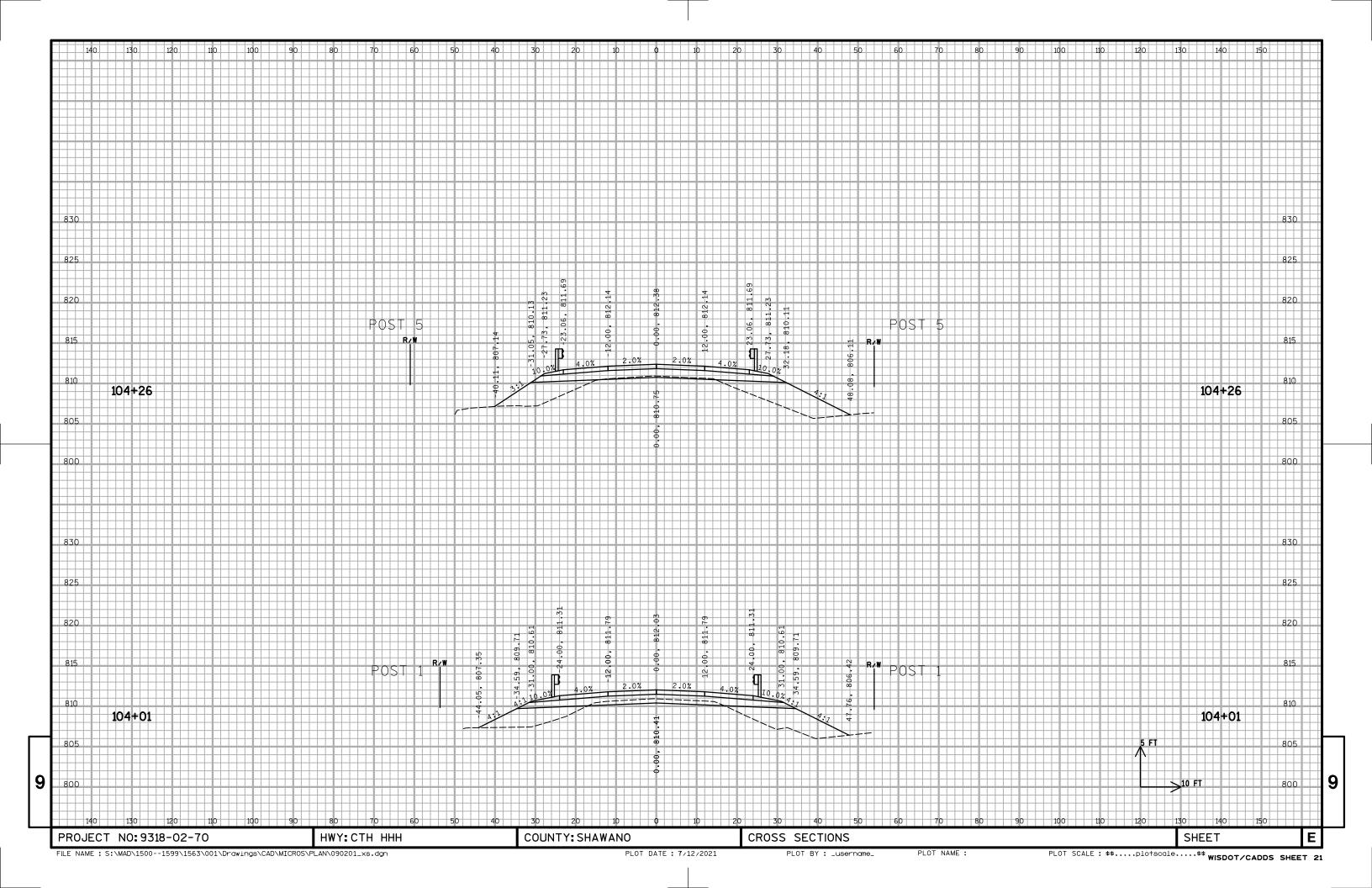
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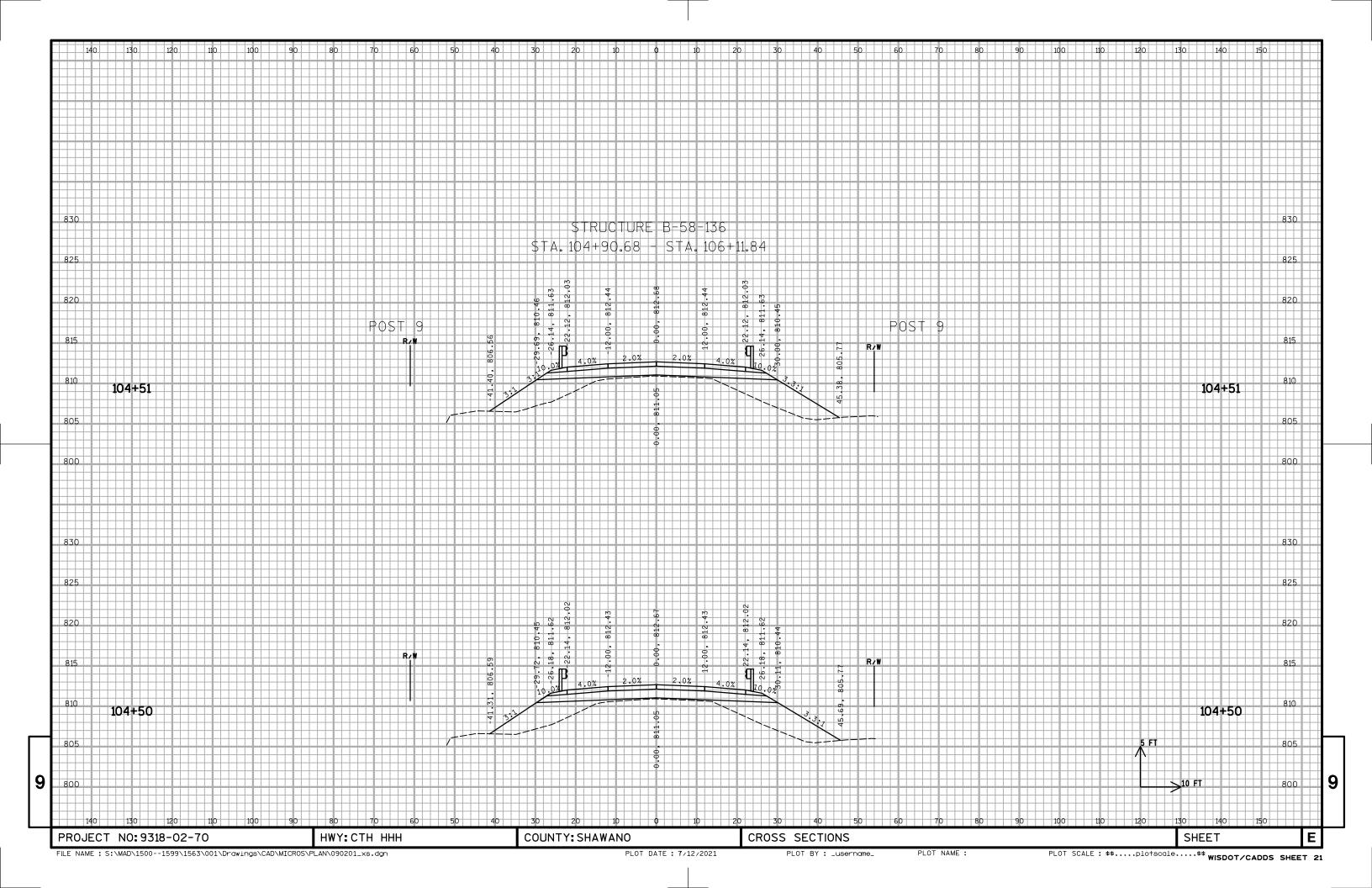
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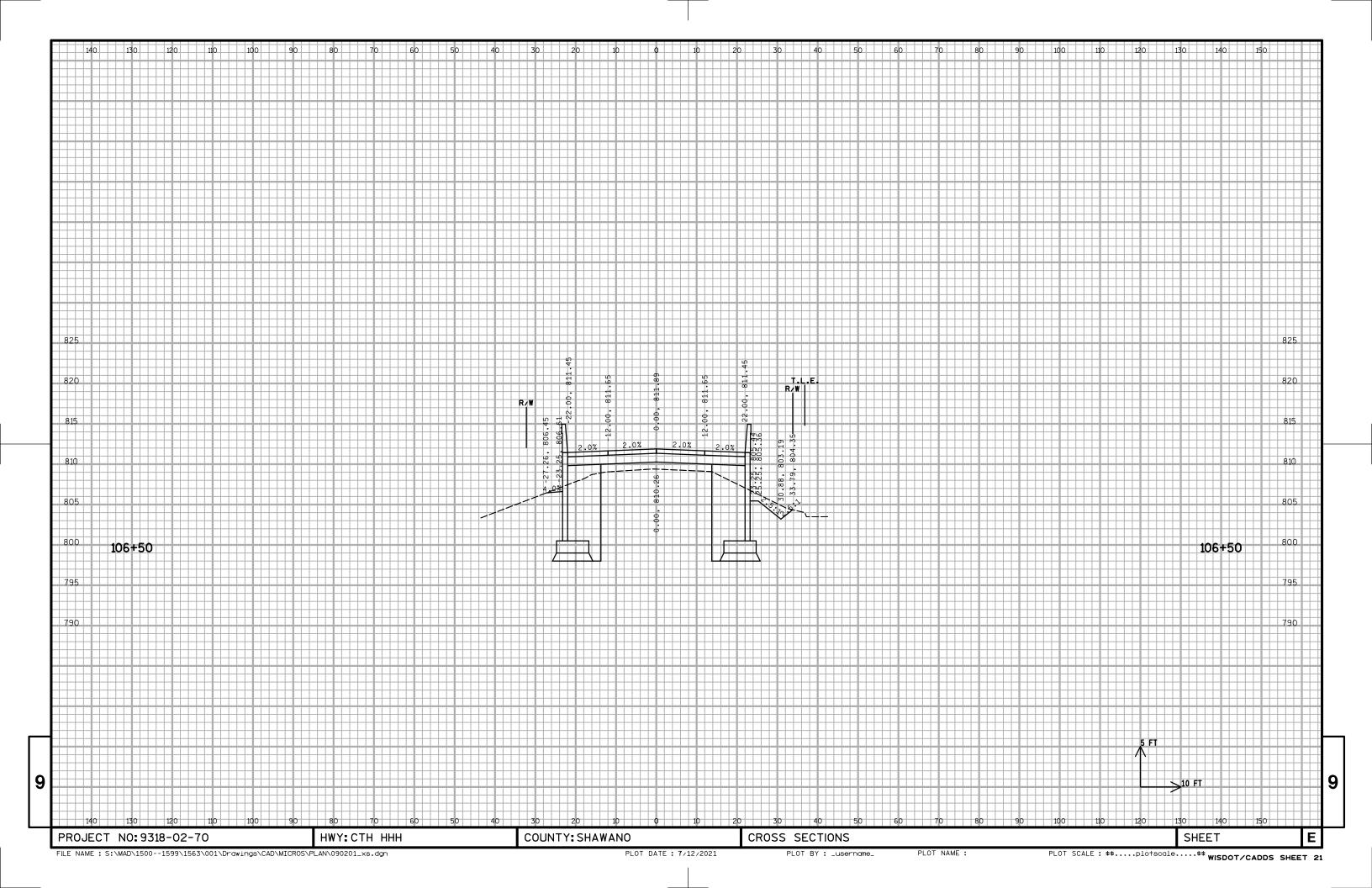
SHEET

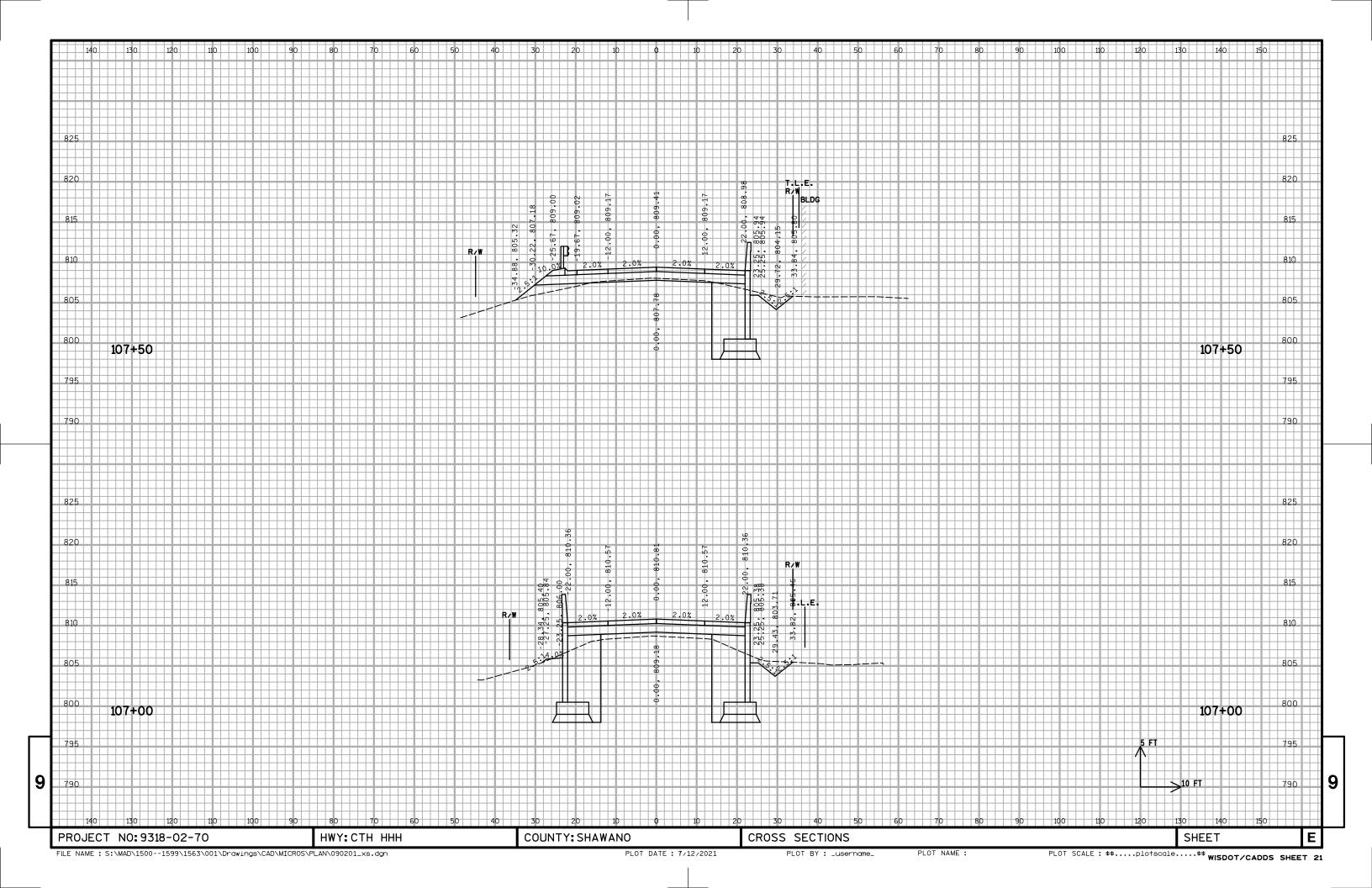


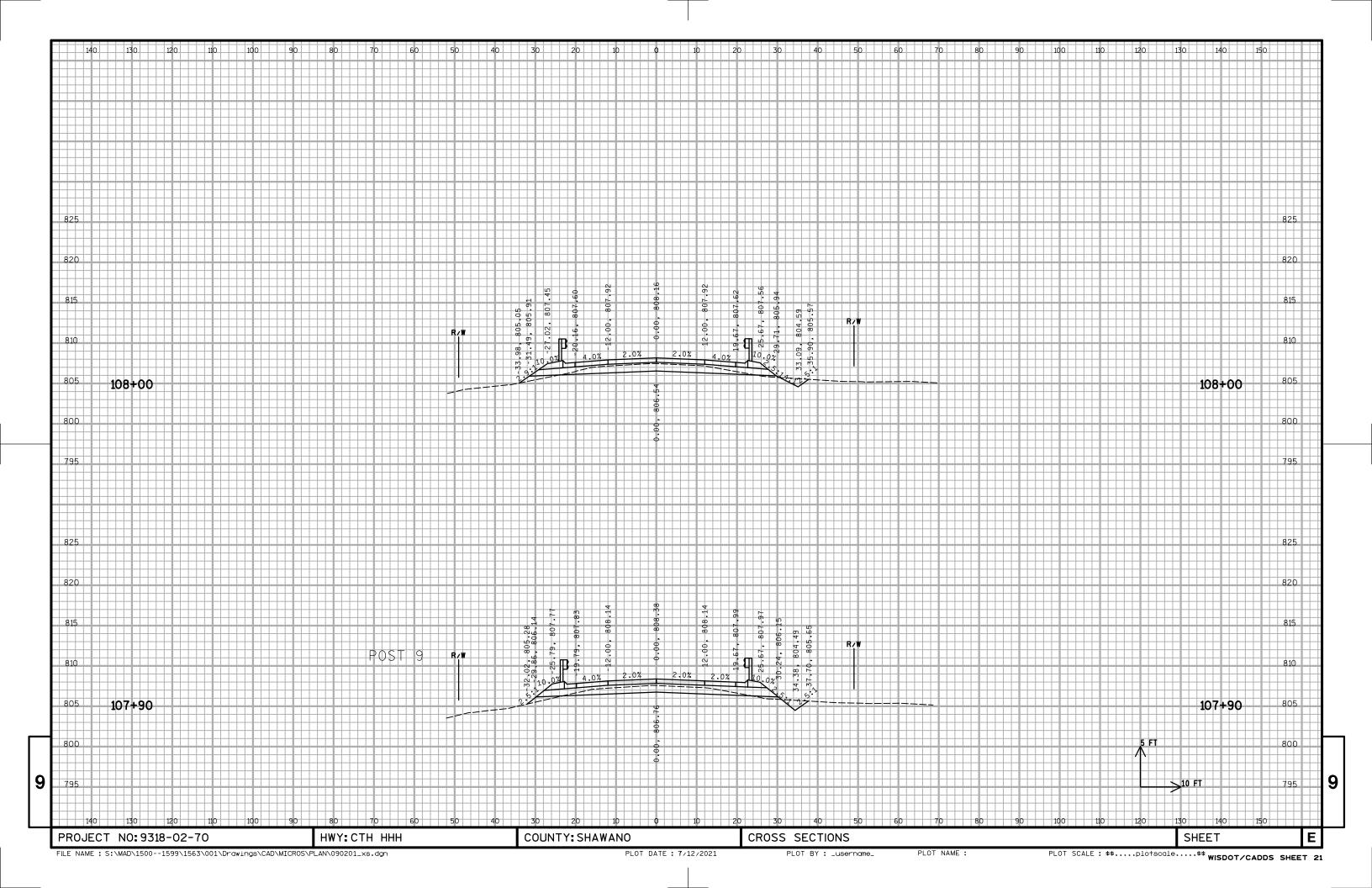


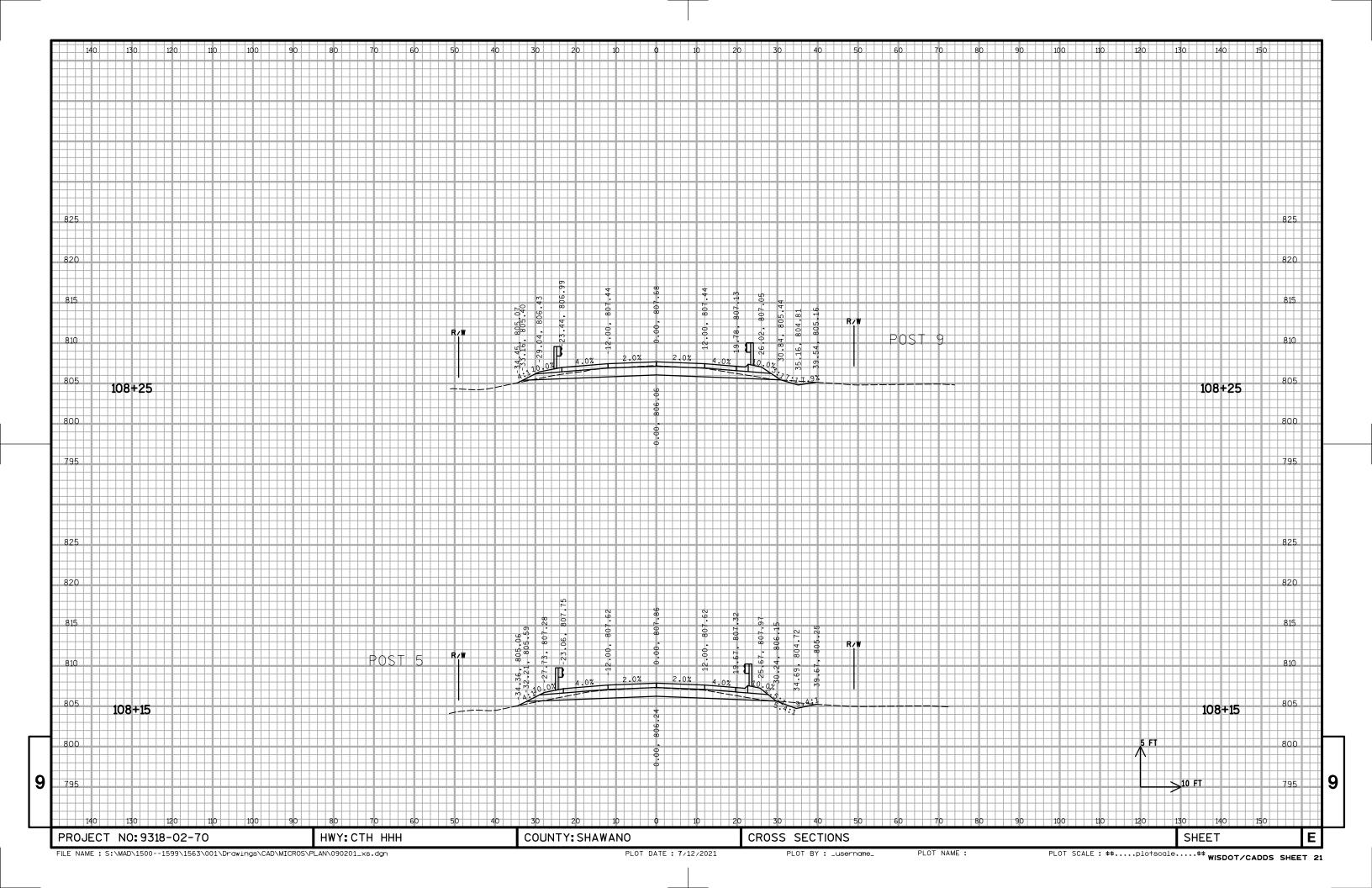


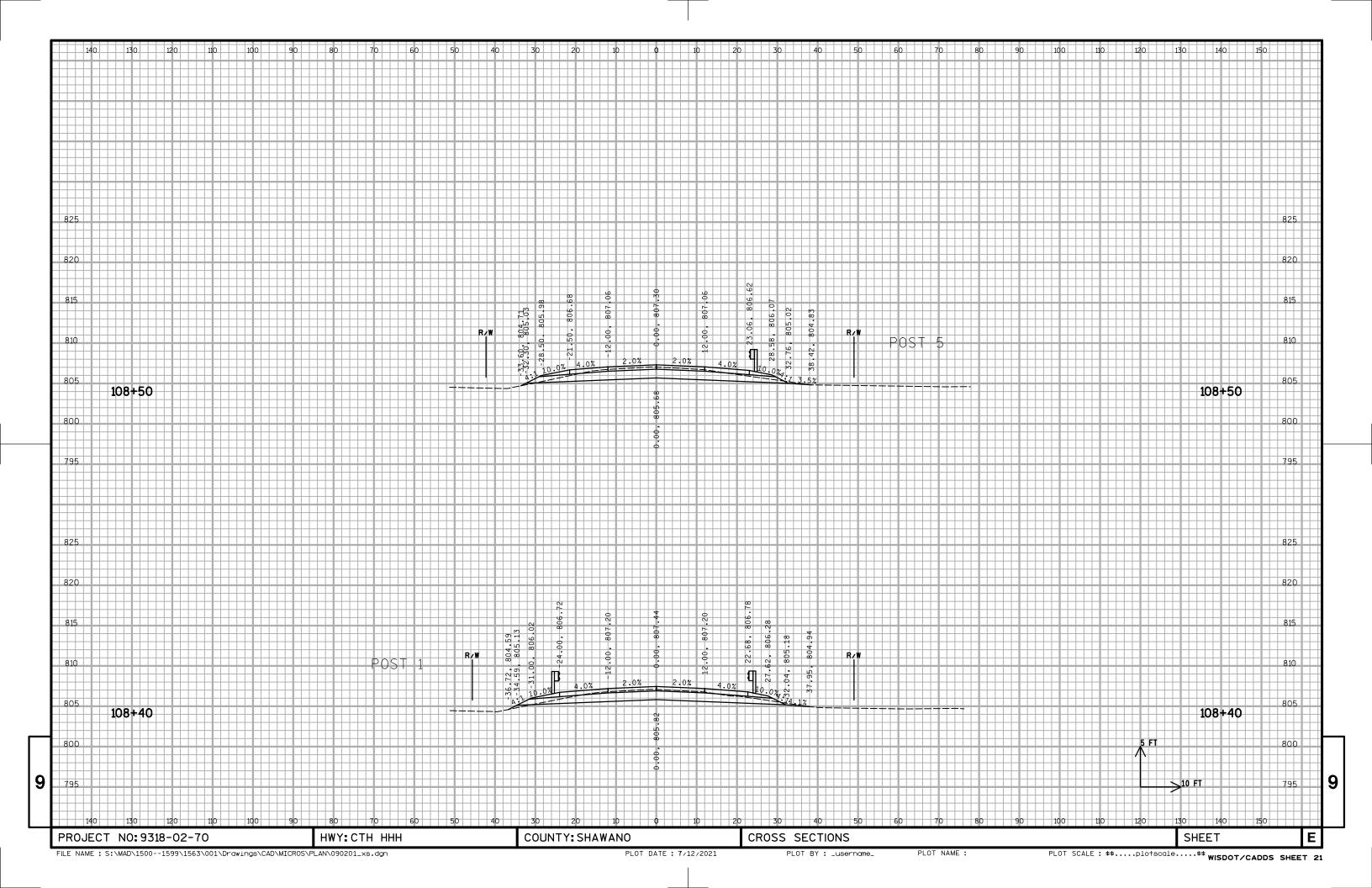


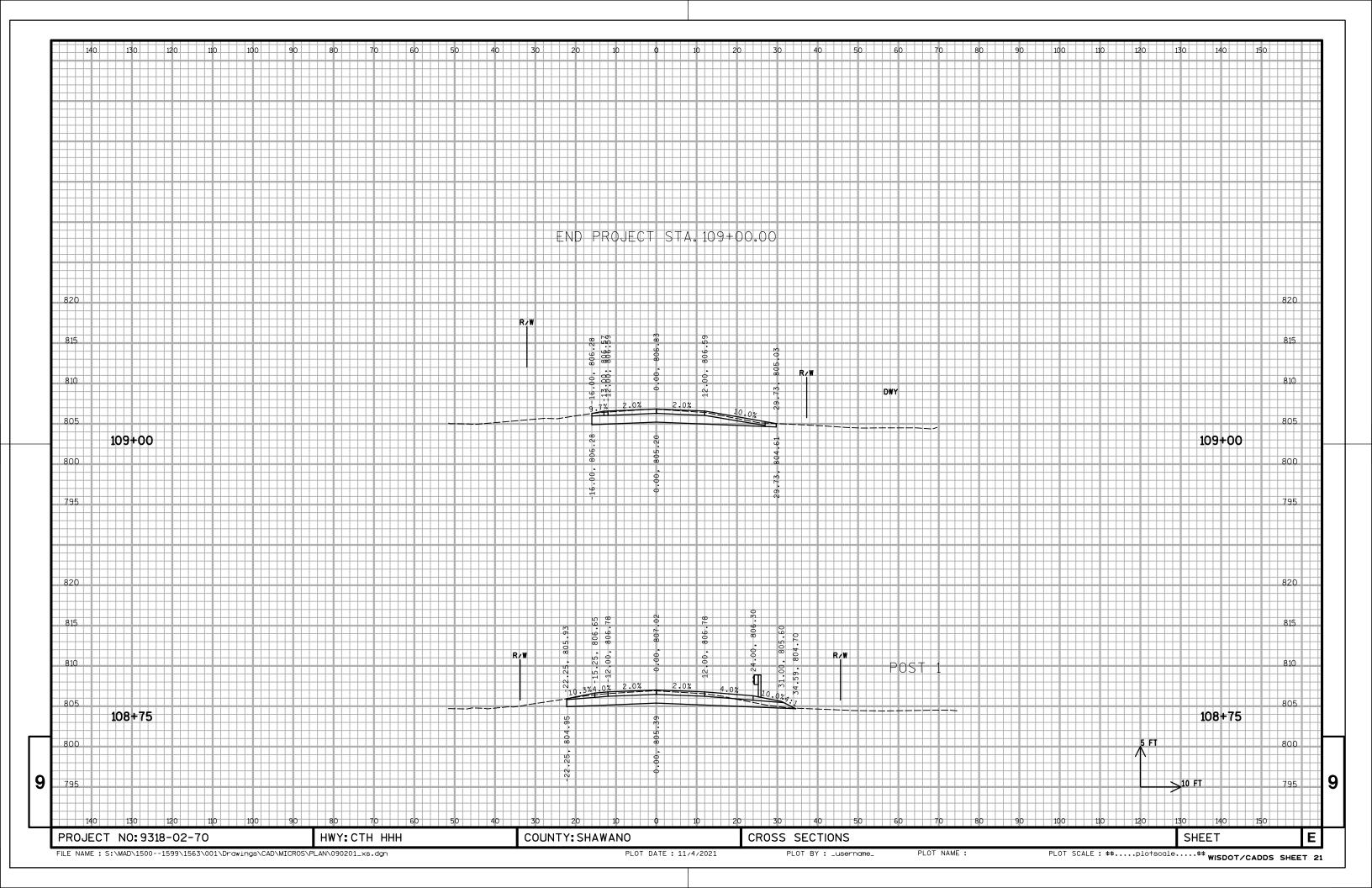


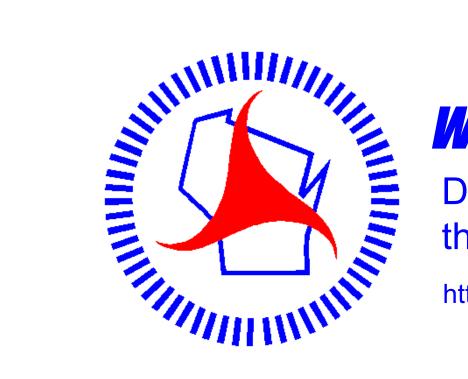












# Wisconsin Department of Transportation

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