GRE	Jan 11, 2022				T
	ORDER OF SHEETS			STATE OF WISCONSIN	
PROJECT ID: WITH: N/A	Section No. 1 Title Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantities Section No. 4 Right of Way Plat		DEPART	MENT OF TRANSPO PLAN OF PROPOSED IMPROVEMENT	
4208-05-71	Section No. 5 Plan and Profile 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		T GRE	ENBUSH, CENTER MULLET RIVER BRIDGE	
5-71				SHEBOYGAN COUNTY	
	CHARTER P			STATE PROJECT NUMBER 4208-05-71	END PROJ
		N		TOWN OF RUSSE	20-E
			STRUCTURE B-59-320		REVISIONE SR SR RD RD RD RD RD RD RD RD RD R
	DESIGN DESIGNATION A.A.D.T. (2022) = 95 A.A.D.T. (2042) = 140				ICKORY IN A L BADGER RD ARTON
COUNT	D.H.V. (2042) = 12.6 D.D. = 60/40 T. = 10% (ASSUMED) DESIGN SPEED = 55 M.P.H. ESALS = 42,925			T-16-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-15-N T-	enbeulah Grader States
HS H	CONVENTIONAL SYMBOLS PLAN	PROFILE			
EBO	CORPORATE LIMITS	GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH		HO NMOL	
IGAN	EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE	GRADE ELEVATION	BEGIN PROJECT STA. 10+00 Y = 185,747.67 X = 115,492.91		Plymouth +
	EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS	ELECTRIC E E E E E E E E E E E E E E E E E E E		31 STATE FOREST	
	MARSH AREA	STORM SEWER SS TELEPHONE T WATER W UTILITY PEDESTAL X		LAYOUT SCALE 2 MI TOTAL NET LENGTH OF CENTERLINE = 0.028 MILES	순 할 수 HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY C SHEBOYGAN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GR BEARINGS, AND GRID DISTANCES. GRID DISTANCE MAY BE USED AS GROUN
l	WOODED OR SHRUB AREA	POWER POLE		PLOT DATE : 7/9/2021 1:54	ELEVATION SHOWN ON THIS PLAN ARE REFERENCE TO THE NORTH AMERIC 1988, NAVD (2012). 42 PM PLOT BY: COLTON PEPER

1.44



GENERAL NOTES

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

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE, AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION. EXACT LOCATIONS OF EBS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

UNLESS SHOWN OTHERWISE, DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE FERTILIZED (TYPE B), SEEDED (USE SEED MIX NO. 20), AND EROSION MATTED AS DIRECTED BY THE ENGINEER. ALL POST CONSTRUCTION WET AREAS SHALL BE SEEDED WITH SEEDING MIXTURE NO. 60. DO NOT FERTILIZE WETLAND AREAS

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

SILT FENCE AND TURBIDITY BARRIER SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE AND TURBIDITY BARRIER SHALL BE PLACED PRIOR TO CONSTRUCTION AND SHALL BE IN PLACE PRIOR TO STRUCTURE REMOVAL.

EROSION MAT ALL MAINLINE SLOPES AS DIRECTED BY THE ENGINEER IN THE FIELD.

FILL EXPANSION IS VARIABLE AND IS ESTIMATED AT 25%.

2

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

THE LOCATION OF ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO PLACEMENT

4-INCHES OF ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 2 ¼-INCH LOWER LAYER AND A 1 ¾-INCH UPPER LAYER

ADJUST DITCH/ STREAMBED GRADING AS NECESSARY TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

ASPHALTIC SURFACE QUANTITIES WERE CALCULATED USING 115 LB/SY/IN.

CURVE DATA IS BASED ON THE ARC DEFINITIONS.

WETLANDS ARE PRESENT IN THE PROJECT LIMITS AT STA. 10+06 - STA. 10+61, RT.; STA. 10+14 - STA.11+32, LT.; STA. 10+41 - STA. 11+33, RT.; AND STA. 10+80 - STA. 11+44, LT. THE CONTRACTOR SHALL NOT OPERATE OR STOCKPILE EQUIPMENT BEYOND THE EXISTING TOE OF SLOPE, OR FINISHED SLOPE INTERCEPT.

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DESIGN CONSULTANT:

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CELL: (608) 341-8159

DNR LIAISON:

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GREEN BAY, WI 54313 ATTN: JAY SCHIEFELBEIN

PHONE: (920) 360-3784

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EMAIL: ellery.schaffer@jewellassoc.com

STATE OF WISCONSIN DNR NORTHEAST REGIONAL HQ

EMAIL: jeremiah.schiefelbein@wisconsin.gov

SHEBOYGAN COUNTY

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PLYMOUTH, WI 53073

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UTILITIES

DIGGERS J HOTLINE	
Dial or (800) 242-8511 www.DiggersHotline.com	

ABUT	Abutment	INV	Invert	SALV	Salvaged
AC	Acre	IP	Iron Pipe or Pin	SAN S	Sanitary Sewer
AGG	Aggregate	IRS	Iron Rod Set	SEC	Section
AH	Ahead	JT	Joint	SHLDR	Shoulder
<	Angle	JCT	Junction	SHR	Shrinkage
ASPH	Asphaltic	LHF	Left-Hand Forward	SW	Sidewalk
AVG	Average	L	Length of Curve	S	South
ADT	Average Daily Traffic	LIN FT or LF	Linear Foot	SQ	Square
BAD	Base Aggregate Dense	LC	Long Chord of Curve	SF or SQ FT	Square Feet
BK	Back	MH	Manhole	SY or SQ YD	Square Yard
BF	Back Face	MB	Mailbox	STD	Standard
BM	Bench Mark	ML or M/L	Match Line	SDD	Standard Detail Drawings
BR	Bridge	N	North	STH	State Trunk Highways
C or C/L	Center Line	Y	North Grid Coordinate	STA	Station
,	Center to Center	O.A.L.	Overall Length	SS	Storm Sewer
CC				SG	
СТН	County Trunk Highway	OD	Outside Diameter		Subgrade
CR	Creek	PLE	Permanent Limited Easement	SE	Superelevation
CR	Crushed		Point	SL or S/L	Survey Line
CY or CU YD	Cubic Yard	PT	Point of Curvature	SV	Septic Vent
CP	Culvert Pipe	PC	Point of Intersection	Т	Tangent
C & G	Curb and Gutter	PI	Point of Reverse Curvature	TEL	Telephone
D	Degree of Curve	PRC	Point of Tangency	TEMP	Temporary
DHV	Design Hour Volume	PT	Point On Curve	TI	Temporary Interest
DIA	Diameter	POC	Point on Tangent	TLE	Temporary Limited Easement
E	East	POT	Polyvinyl Chloride	t	Ton
Х	East Grid Coordinate	PVC	Portland Cement Concrete	T or TN	Town
ELEC	Electric (al)	PCC	Pound	TRANS	Transition
EL or ELEV	Elevation	LB	Pounds Per Square Inch	TL or T/L	Transit Line
ESALS	Equivalent Single Axle Loads	PSI	Private Entrance	Т	Trucks (percent of)
EBS	Excavation Below Subgrade	PE	Radius	ТҮР	Typical
ESTR	Existing Sign to Remain	R	Railroad	UNCL	Unclassified
FF	Face to Face	RR	Range	UG	Underground Cable
FE	Field Entrance	R	Reference Line	USH	United States Highway
F	Fill	RL or R/L	Reference Point	VAR	Variable
FG	Finished Grade	RP	Reinforced Concrete Culvert	V	Velocity or Design Speed
FL or F/L	Flow Line	RCCP	Pipe	VERT	Vertical
FT	Foot	REQ'D	Required	VC	Vertical Curve
FTG	Footing	RES	Residence or Residential	VOL	Volume
GN	Grid North	RW	Retaining Wall	WM	Water Main
HT	Height	RT	Right	WV	Water Valve
CWT	Hundredweight	RHF	Right-Hand Forward	W	West
HYD		R/W	Right-of-Way	WB	Westbound
	Hydrant Inlet			YD WB	Yard
INL		R	River	۲D	Talu
ID	Inside Diameter	RD	Road		
		RDWY	Roadway		

						HYDROLOGIC	SOIL	GROUP				
		4	ł		1	3		(2		[D
	SLOPE	RANG	E (PERCENT)	SLOPE	RANG	E (PERCENT)	SLOPE	RANG	E (PERCENT)	SLOPE	RANG	E (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 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.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												
ASPHALT						.709	95					
CONCRETE						.809	€					
BRICK						.708	30					
DRIVES, WALKS						.758						
ROOFS						.759	-					
GRAVEL ROADS, S	HOULD	DERS				.406	50					
TOTAL PROJECT A	REA= C	.37 AC	RES									
TOTAL AREA EXPE	CTED 1	TO BE D	DISTURBED B	Y CONS	STRUC	TION ACTIVIT	IES = 0	.20 AC	RES			

GENERAL NOTES, UTILITIES, CONTACTS, & A

PLOT BY : CODY KINTZ

FILE NAME : S:\PROJECTS\W11607 WISDOT - CENTER ROAD, SHEBOYGAN CO\SHEETSPLAN\DETAILS\42080571 GEN NOTES,DWG

PLOT DATE : 7/29/2021 4:02:15 PM

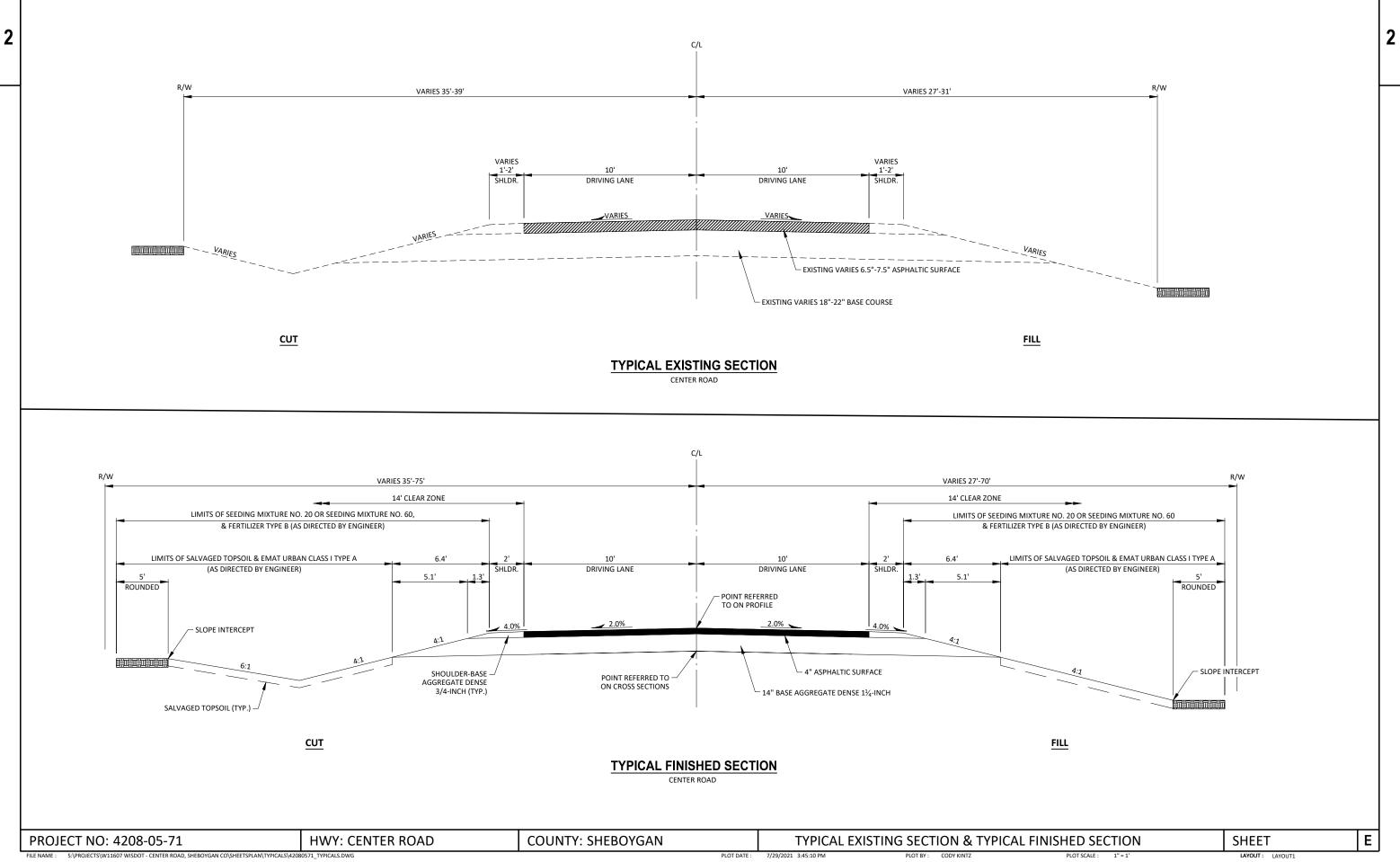
LIST OF STANDARD ABBREVIATIONS

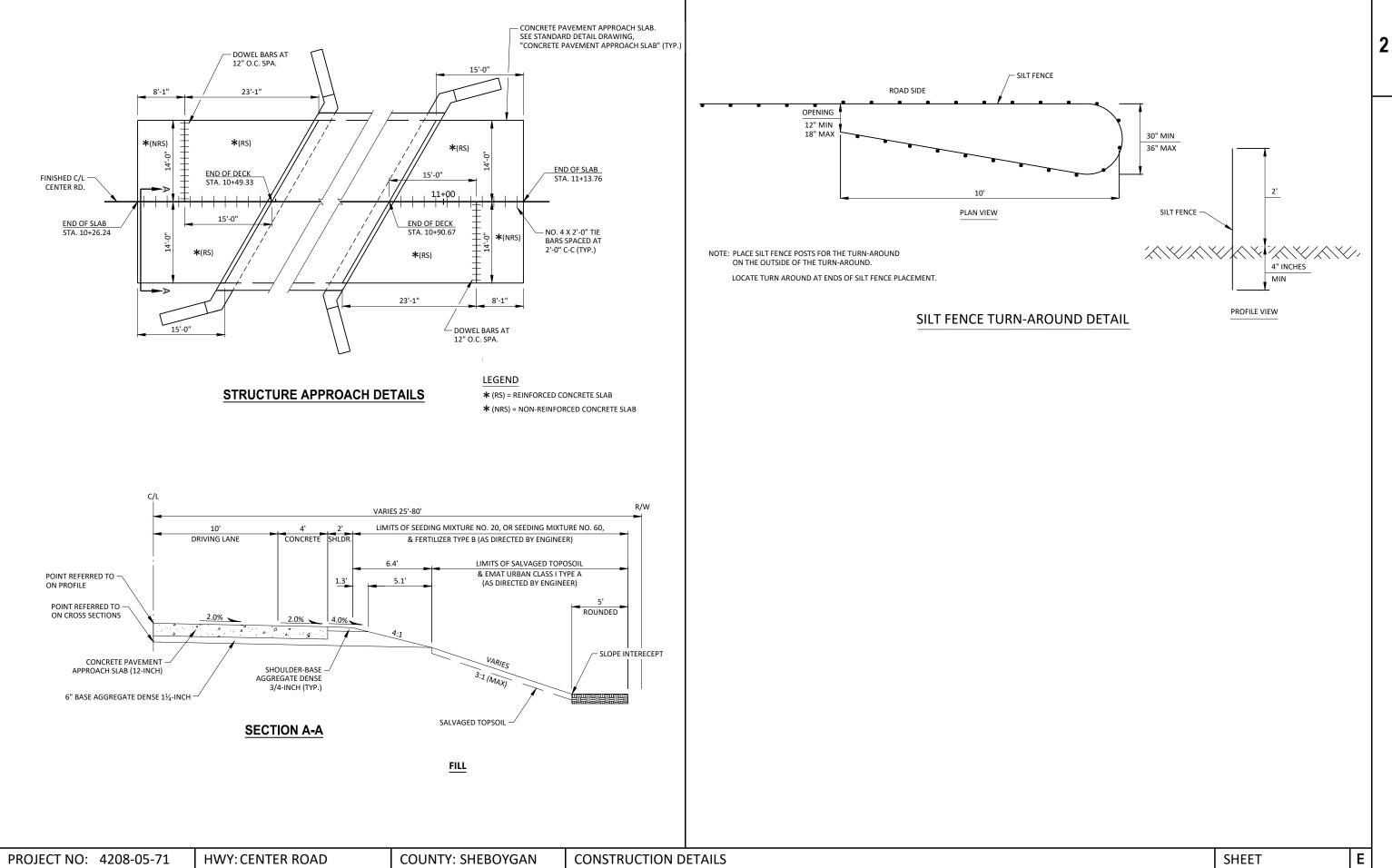
ABBREVIA	TIONS
PLOT SCALE :	1" = 1'

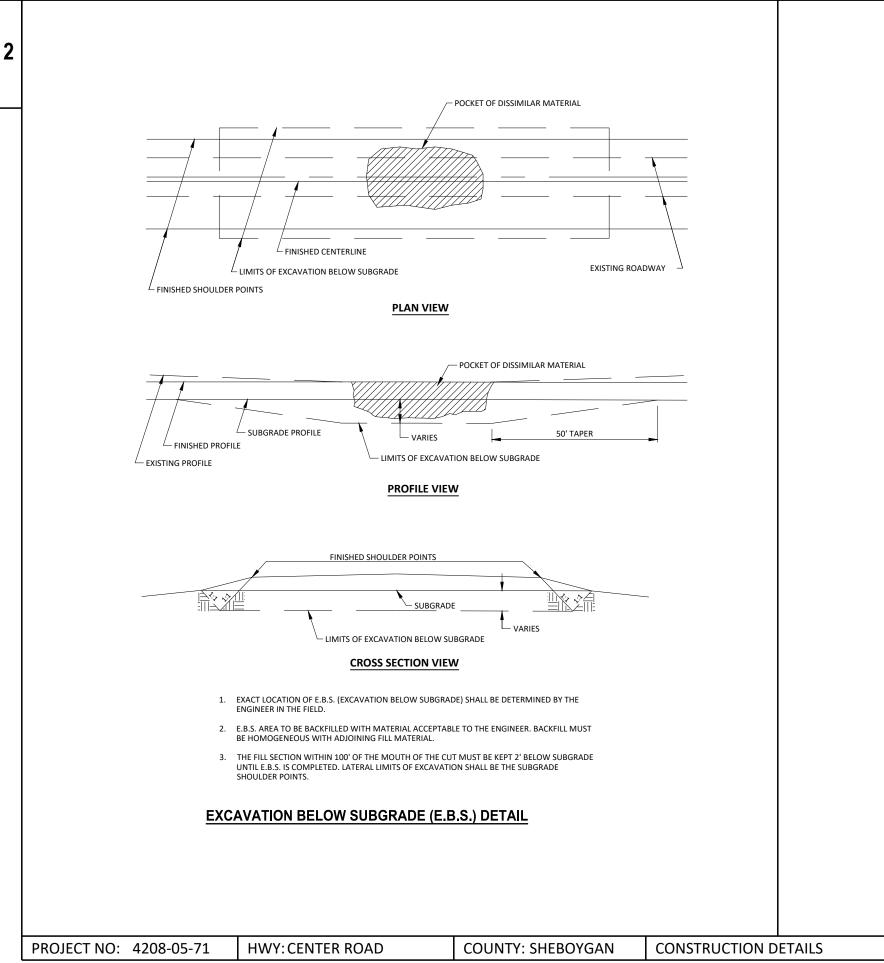
SHEET

LAYOUT: LAYOUT1

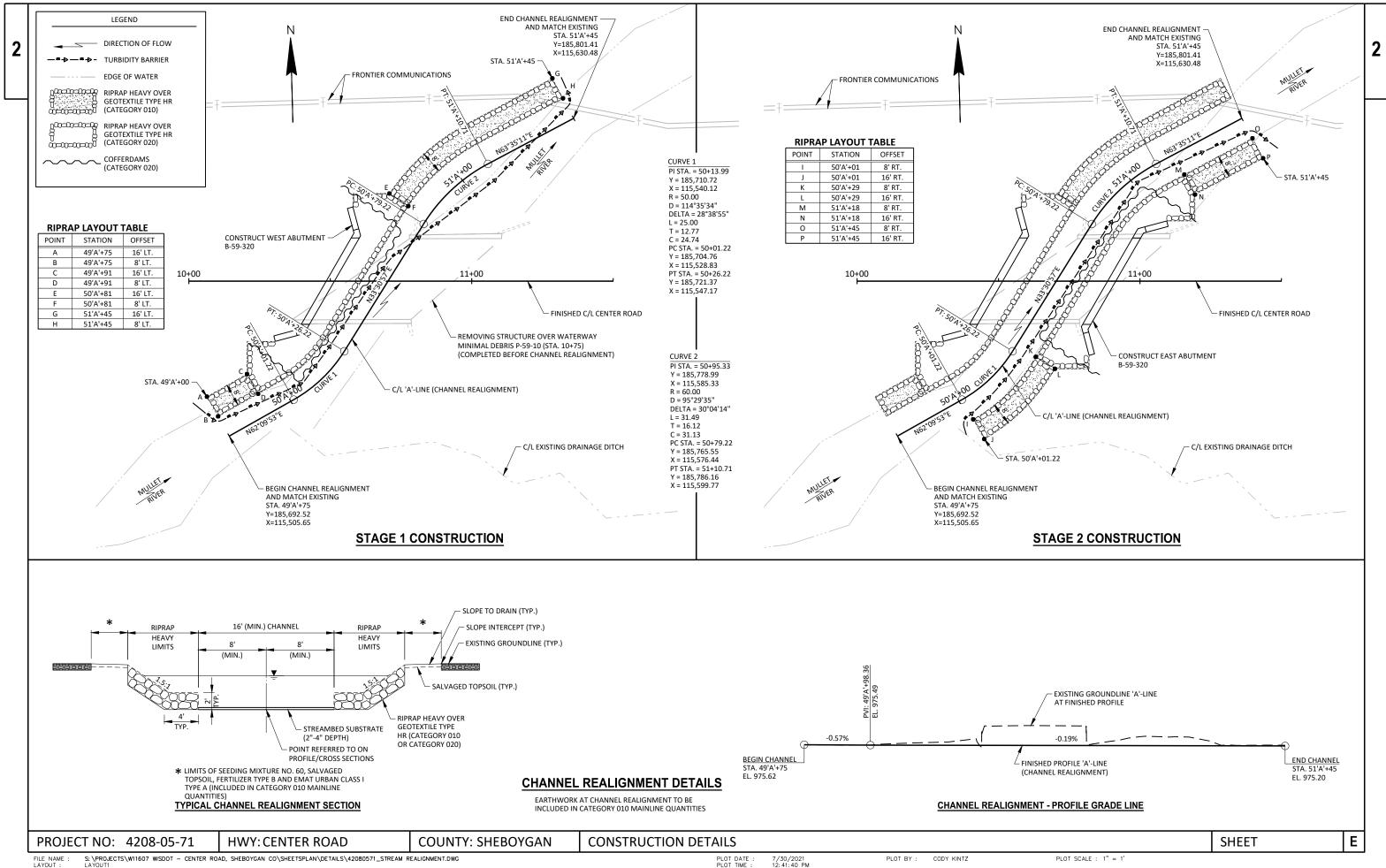
Ε





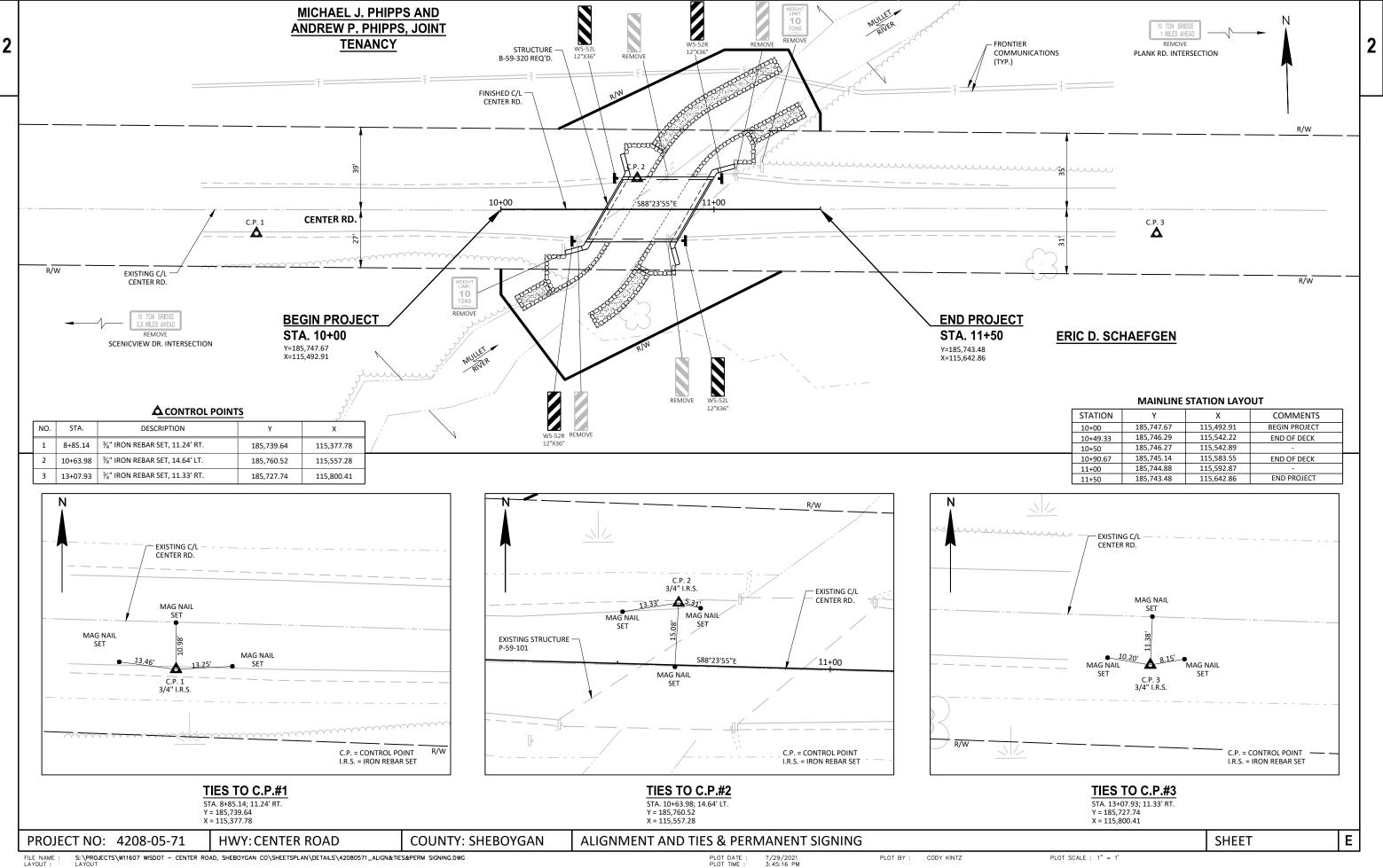


PLOT DATE : 7/29/2021 PLOT TIME : 3: 45: 12 PM



PLOT DATE PLOT TIME

PLOT BY : CODY KINTZ



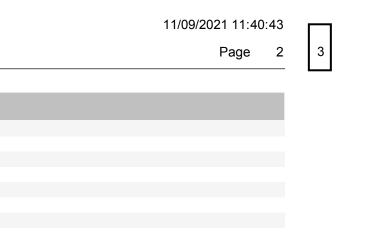
PLOT DATE : 7/29/2021 3:45:16 PM PLOT BY : CODY KINTZ

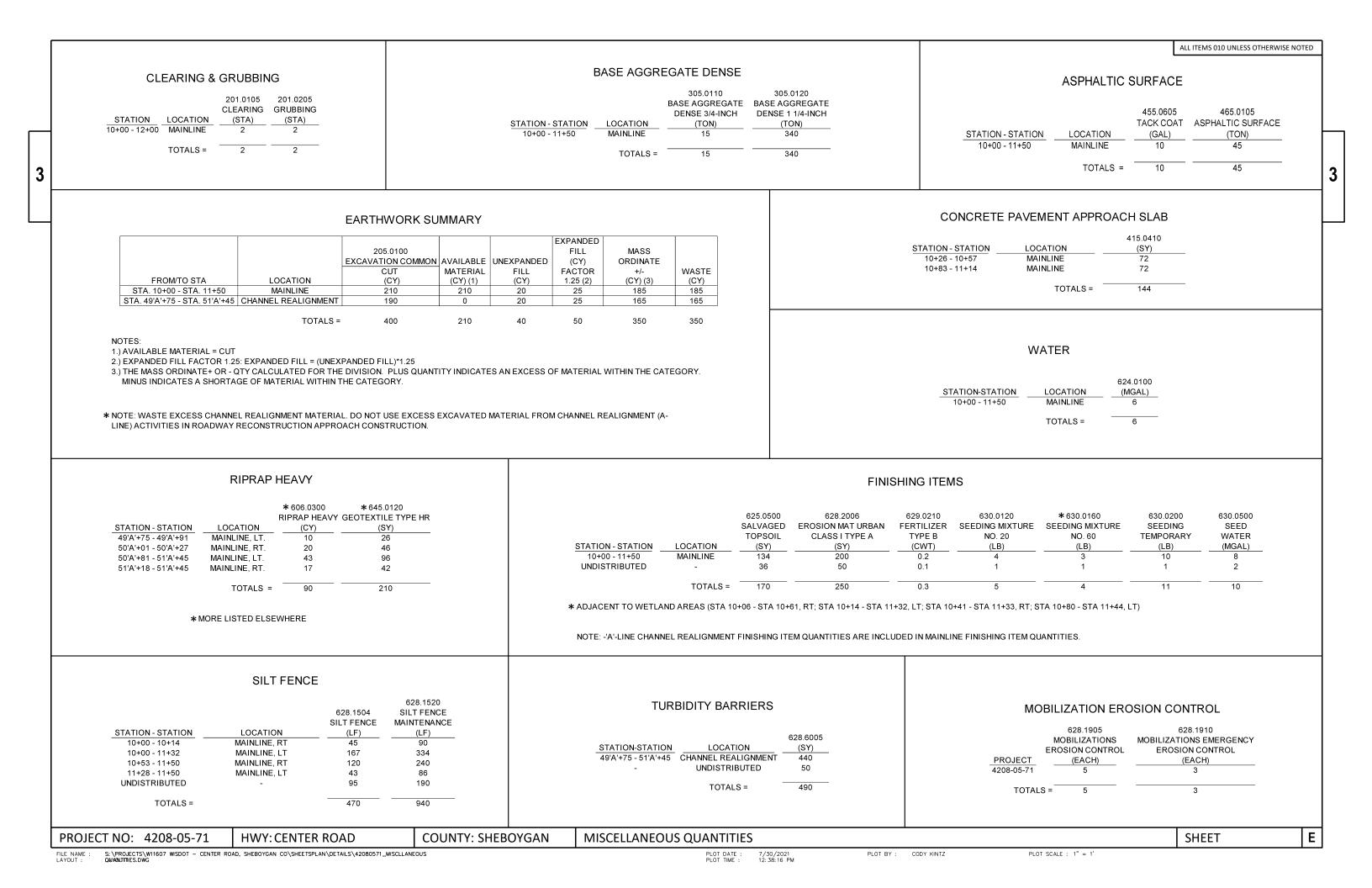
Estimate Of Quantities

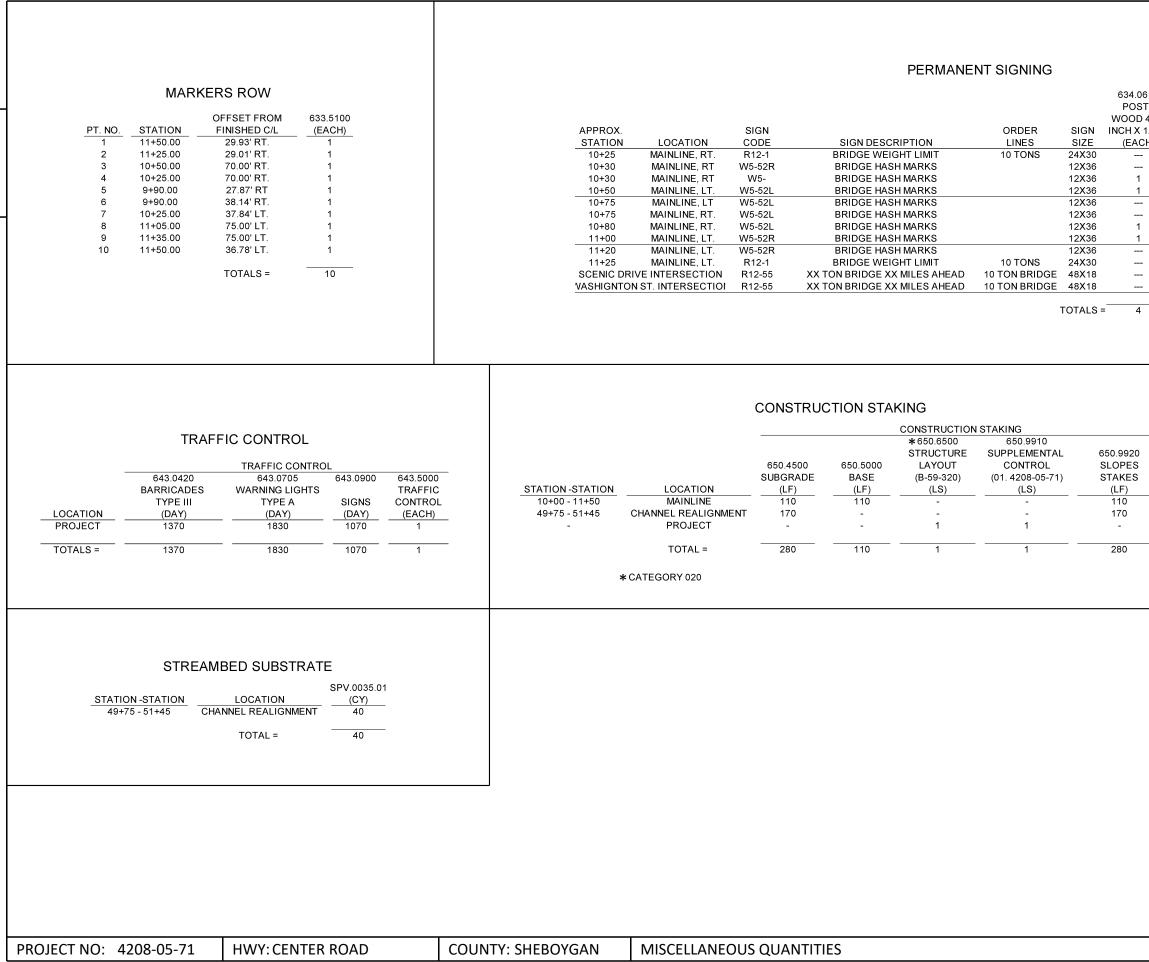
Line 002	Item					
002		Item Description	Unit	Total	Qty	
	201.0105	Clearing	STA	2.000	2.000	
004	201.0205	Grubbing	STA	2.000	2.000	
006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-59-101	EACH	1.000	1.000	
008	205.0100	Excavation Common	CY	400.000	400.000	
010	206.1000	Excavation for Structures Bridges (structure) 01. B-59-320	LS	1.000	1.000	
012	206.5000	Cofferdams (structure) 01. B-59-320	LS	1.000	1.000	
014	210.1500	Backfill Structure Type A	TON	320.000	320.000	
016	213.0100	Finishing Roadway (project) 01. 4208-05-71	EACH	1.000	1.000	
018	305.0110	Base Aggregate Dense 3/4-Inch	TON	15.000	15.000	
020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	340.000	340.000	
022	415.0410	Concrete Pavement Approach Slab	SY	144.000	144.000	
024	455.0605	Tack Coat	GAL	10.000	10.000	
026	465.0105	Asphaltic Surface	TON	45.000	45.000	
028	502.0100	Concrete Masonry Bridges	CY	153.000	153.000	
030	502.3200	Protective Surface Treatment	SY	205.000	205.000	
032	505.0400	Bar Steel Reinforcement HS Structures	LB	4,920.000	4,920.000	
034	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	19,070.000	19,070.000	
036	513.4061	Railing Tubular Type M	LF	86.000	86.000	
038	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000	
040	550.0500	Pile Points	EACH	16.000	16.000	
042	550.2104	Piling CIP Concrete 10 3/4 X 0.25-Inch	LF	960.000	960.000	
044	606.0300	Riprap Heavy	CY	220.000	220.000	
046	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	160.000	160.000	
048	618.0100	Maintenance And Repair of Haul Roads (project) 01. 4208-05-71	EACH	1.000	1.000	
050	619.1000	Mobilization	EACH	1.000	1.000	
052	624.0100	Water	MGAL	6.000	6.000	
054	625.0500	Salvaged Topsoil	SY	170.000	170.000	
056	628.1504	Silt Fence	LF	470.000	470.000	
058	628.1520	Silt Fence Maintenance	LF	940.000	940.000	
060	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000	
062	628.1905	Mobilizations Encylercy Erosion Control	EACH	3.000	3.000	
064	628.2006	Erosion Mat Urban Class I Type A	SY	250.000	250.000	
066	628.6005	Turbidity Barriers	SY	490.000	490.000	
068	629.0210	Fertilizer Type B	CWT	0.300	0.300	
070	630.0120	Seeding Mixture No. 20	LB	5.000	5.000	
	630.0120	Seeding Mixture No. 60				
072 074	630.0200	Seeding Temporary	LB LB	4.000	4.000	
076	630.0200	Seed Water	MGAL	10.000	10.000	
078	633.5100	Markers ROW	EACH	10.000	10.000	
080	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
			SF			
082 084	637.2230 638.2602	Signs Type II Reflective F Removing Signs Type II	EACH	12.000 8.000	12.000 8.000	
			EACH	8.000		
086	638.3000 642.5001	Removing Small Sign Supports	EACH		8.000 1.000	
088		Field Office Type B		1.000		
090	643.0420	Traffic Control Barricades Type III	DAY	1,370.000	1,370.000	
092	643.0705	Traffic Control Warning Lights Type A	DAY	1,830.000	1,830.000	
094 096	643.0900	Traffic Control Signs	DAY	1,070.000	1,070.000	
uyn	643.5000	Traffic Control	EACH SY	1.000	1.000 100.000	



			E	stimate Of Q	uantities	
					4208-05-71	
Line	Item	Item Description	Unit	Total	Qty	
0100	645.0120	Geotextile Type HR	SY	460.000	460.000	
0102	650.4500	Construction Staking Subgrade	LF	280.000	280.000	
0104	650.5000	Construction Staking Base	LF	110.000	110.000	
0106	650.6500	Construction Staking Structure Layout (structure) 01. B-59-320	LS	1.000	1.000	
0108	650.9910	Construction Staking Supplemental Control (project) 01. 4208-05-71	LS	1.000	1.000	
0110	650.9920	Construction Staking Slope Stakes	LF	280.000	280.000	
0112	690.0150	Sawing Asphalt	LF	44.000	44.000	
0114	715.0502	Incentive Strength Concrete Structures	DOL	912.000	912.000	
0116	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000	
0118	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+70	EACH	1.000	1.000	
0120	SPV.0035	Special 01. Streambed Substrate	CY	40.000	40.000	
0122	SPV.0090	Special 01. Flashing Stainless Steel	LF	75.000	75.000	







ALL ITEMS 010 UNLESS OTHERWISE NOTED

612 TS	637.2230	638.2602 REMOVING	638.3000 REMOVING
4X6-	SIGNS TYPE II	SIGNS	SMALL SIGN
12-FT	REFLECTIVE F	TYPE II	SUPPORTS
CH)	(SF)	(EACH)	(EACH)
		1	1
		1	1
	3.00		
	3.00		
		1	1
		1	1
	3.00		
	3.00		
		1	1
		1	1
		1	1
		1	1
	12.00	8	8

S	SAWING ASPHA	ALT.
 TATION 10+00 11+50	LOCATION MAINLINE MAINLINE	690.0150 (L.F.) 22 22
	TOTAL =	44

SHEET	E

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION ACCESS RIGHTS ACRES AND OTHERS BARN CENTERLINE CERTIFIED SURVEY MAP CORNER CONVEYANCE OF RIGHTS DOCUMENT EASEMENT	AP AR AC. ET.AL. B. C/L CSM COR. CR DOC. EASE.	PROPERTY LINE RECORDED AS REFERENCE LINE RELEASE OF RIGHTS REMAINING RIGHT-OF-WAY SECTION SHED STATION TEMPORARY LIMITED EASEMENT VOLUME	PL (100') R/L ROR REM. R/W SEC. S. STA. TLE V.
GARAGE	G.	CURVE DATA	LCH
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCB
HOUSE TRAILER	H. T.	RADIUS	R
LAND CONTRACT	LC	DEGREE OF CURVE	D
MONUMENT	MON	CENTRAL ANGLE OR DELTA	DELTA
PAGE	P.	LENGTH OF CURVE	L
PERMANENT LIMITED EASEMENT	PLE	TANCENT	TAN

CONVENTIONAL SYMBOLS

FOUND SURVEY MONUMENT (WITH POINT NUMBER)	0 ¹⁰⁴⁰	PROPOSED R/W LINE EXISTING H.E. LINE	
R/W MONUMENT	0 • (SET)	PROPERTY LINE	
R/W STANDARD	△ ▲ (SET)	LOT & TIE LINES	
SIGN	ISIGN	SLOPE INTERCEPTS CORPORATE LIMITS	
SECTION CORNER MONUMENT	⊕	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	•••••
SECTION CORNER SYMBOL	$\begin{pmatrix} 5\\ 3\\ 4\\ 8\\ 9\\ 7\\ 9\\ 1 \end{pmatrix}$	NO ACCESS (BY ACQUISTION) NO ACCESS	818888888888888888888888888888888888888
FEE (HATCH VARIES)		(BY STATUTORY AUTHORITY) SECTION LINE	
TEMPORARY LIMITED EASEMENT	de, en	QUARTER LINE SIXTEENTH LINE	
PERMANENT LIMITED EASEMENT	K / /J	EXISTING CENTERLINE	
R/W BOUNDARY POINT	RWB20	PROPOSED REFERENCE LINE	
PARCEL NUMBER	8	PARALLEL OFFSET	
UTILITY PARCEL NUMBER	92	ENCROACHMENT	E-D/TYPE
SIGN NUMBER (OFF PREMISE)	21-1	HIGHWAY EASEMENT	
BUILDING			

CONVENTIONAL UTILITY SYMBOLS

WATER	w	SANITARY SEWER		-SAN	
GAS	G	STORM SEWER		- ss	
TELEPHONE	T		NON		
OVERHEAD	OH		COMPENSABLE	COMPENSABLE	
TRANSMISSION LINES		POWER POLE	9	÷	
ELECTRIC	——— E ———	TELEPHONE POLE	ø	۲	
CABLE TELEVISION	TV	TELEPHONE PEDESTA	al X	×	
FIBER OPTIC	FO	ELECTRIC TOWER	\boxtimes	3	

NOTES

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WSCRS), SHEBOYGAN COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

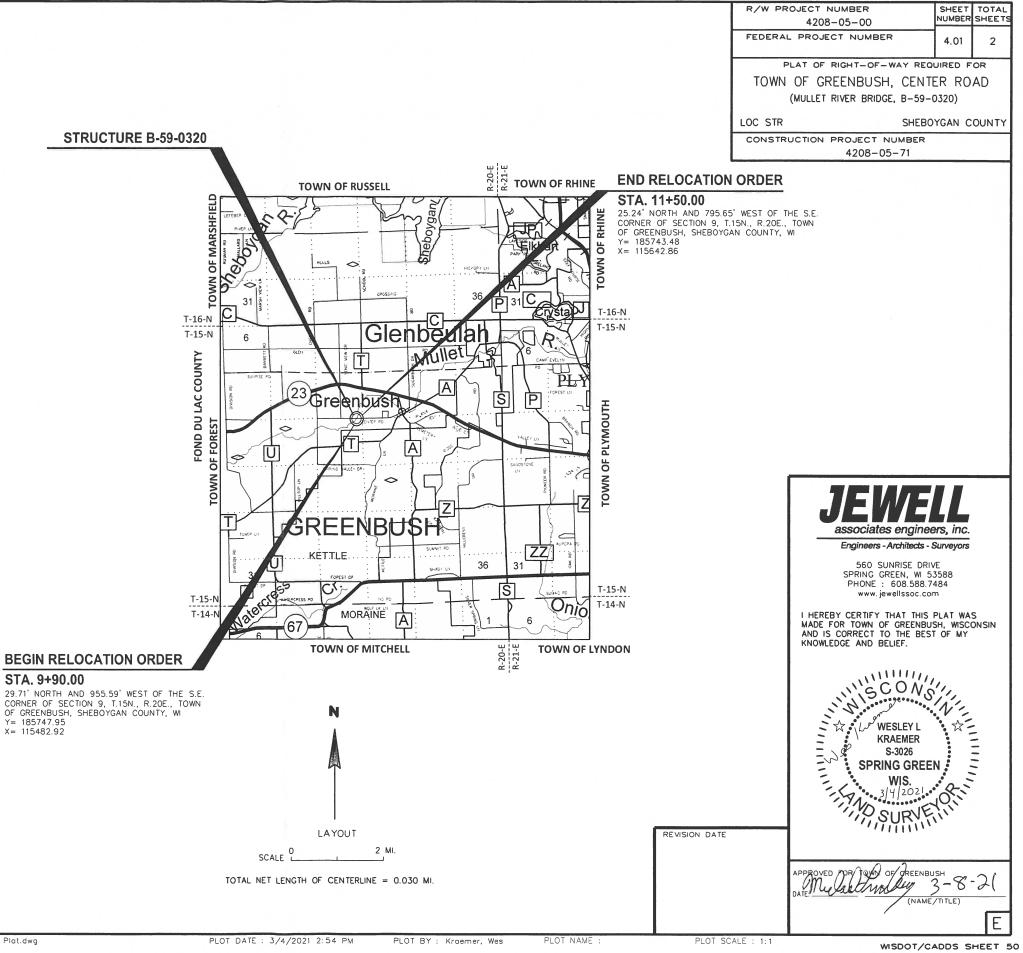
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" X 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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."

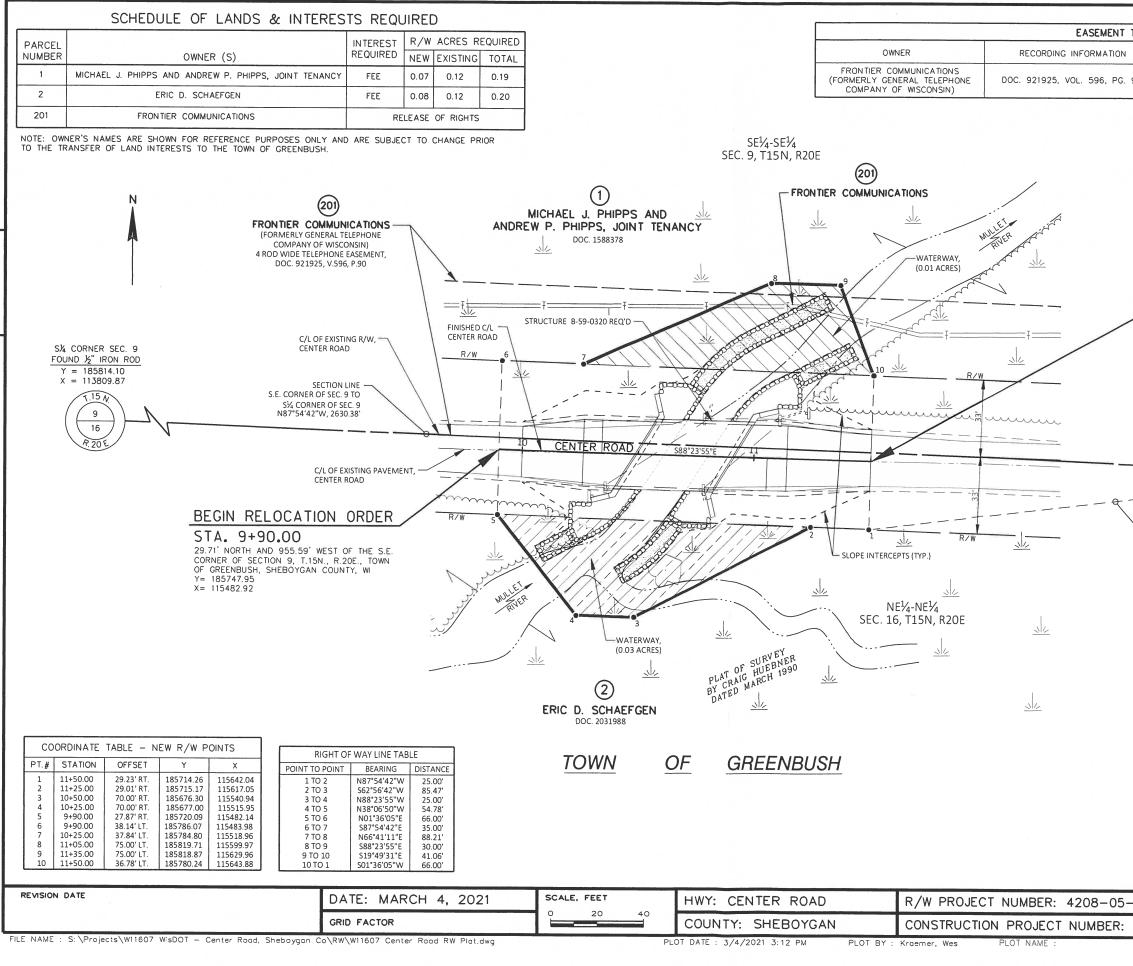


Y= 185747.95

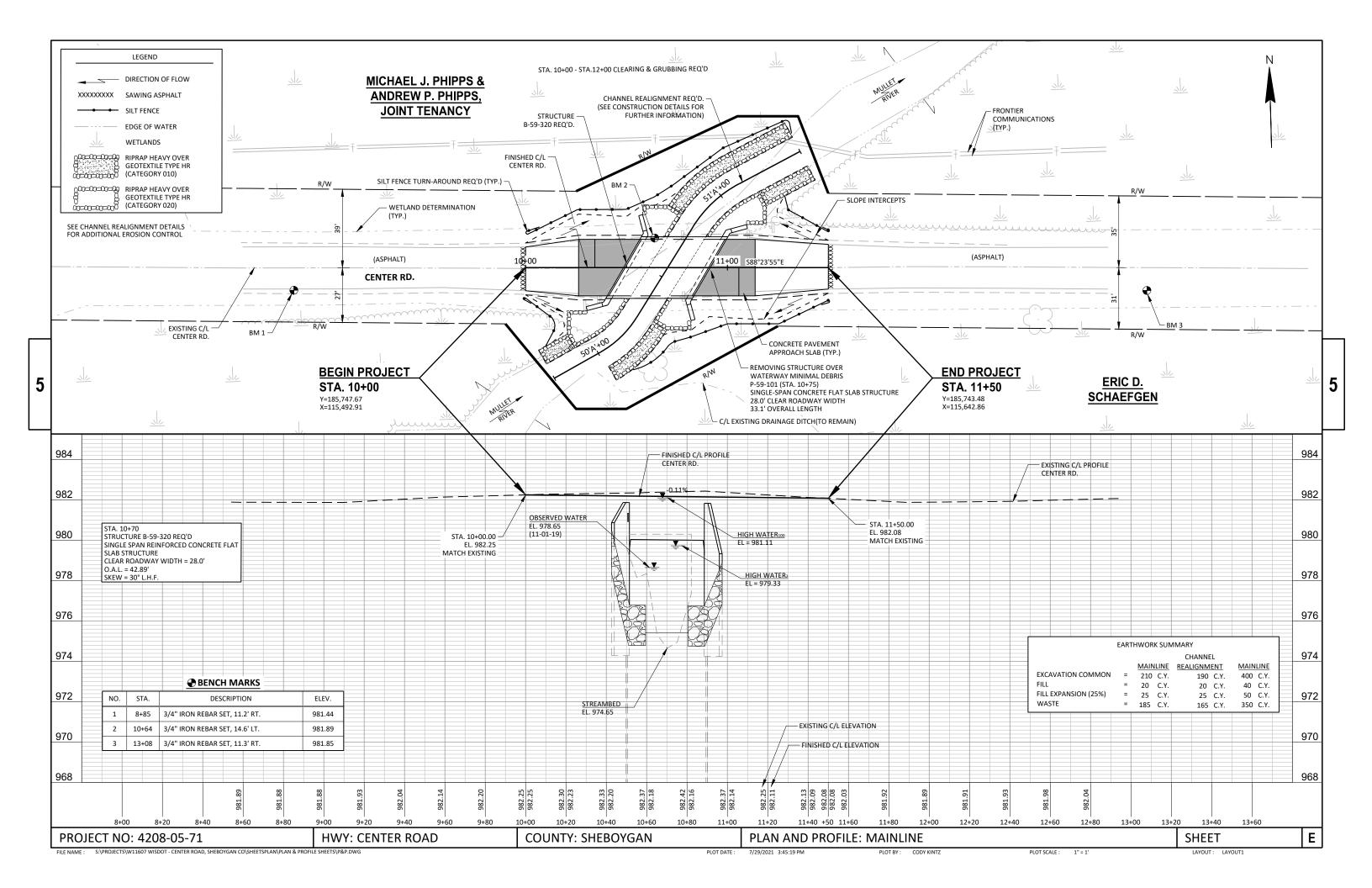
X= 115482.92



FILE NAME : S: \Projects\W11607 WisDOT - Center Road, Sheboygan Co\RW\W11607 Center Road RW Plat.dwg

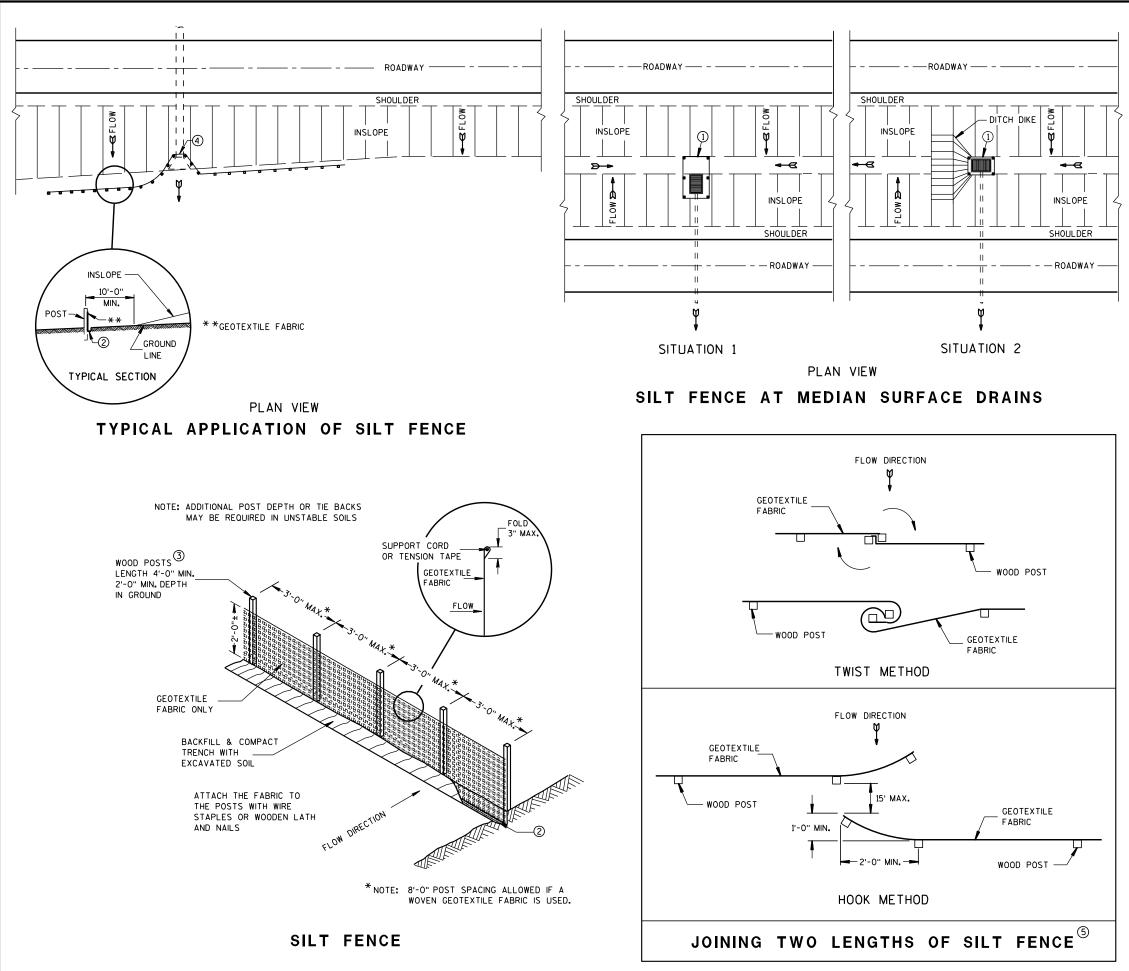


	DT SCALE : 1:1	PS&E SHEET	Е 75
	-05-71		
	S.E. CORNER OF SEC. 9 S89°42'50"W, 796.48'	NOTE: EXISTING C/L OF CENTER ROAD BASED ON THE LOCATION OF THE SOUTH LINE OF THE SE¼ OF SECTION 9. EXISTING RIGHT-OF-WAY FOR CENTER ROAD BASED ON THE LOCATION OF THE SOUTH LINE OF THE SE¼ OF SECTION 9, P.O.S. A-18691, BOOK 90 PAGES 34-35, AND WIS. STATUTE 82.31(2).	
	-V	S.E. CORNER SEC. 9 FOUND MAG NAIL Y = 185718.24 X = 116438.51 T.15 M 9 10 16 15 R.20 E	
	STA. 11+50 25.24' NORTH AN CORNER OF SECTI	CATION ORDER D.00 D 795.65' WEST OF THE S.E. ON 9, T.15N., R.20E., TOWN HEBOYGAN COUNTY, WI	4
3.90	1	THE CENTERLINE OF CENTER ROAD IN THE SE¼-SE¼, SEC. 9, T15N, R2OE	
	LOCATED IN PARCEL NUMBE	THE SOUTH 4 RODS LYING NORTH OF	
IN			



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15с02-08в	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15С11-09В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



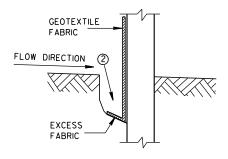
S.D.D. 8 E 9

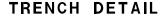
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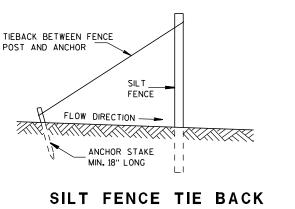
GENERAL NOTES

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

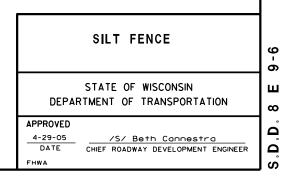
- \bigcirc horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3)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

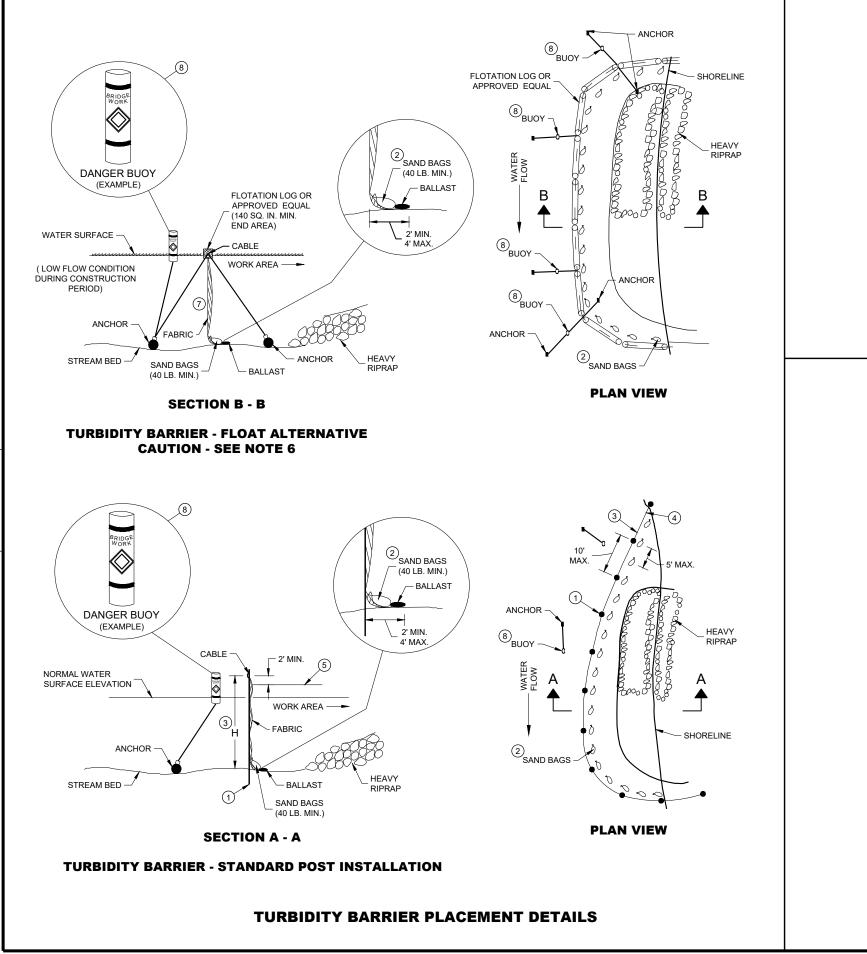




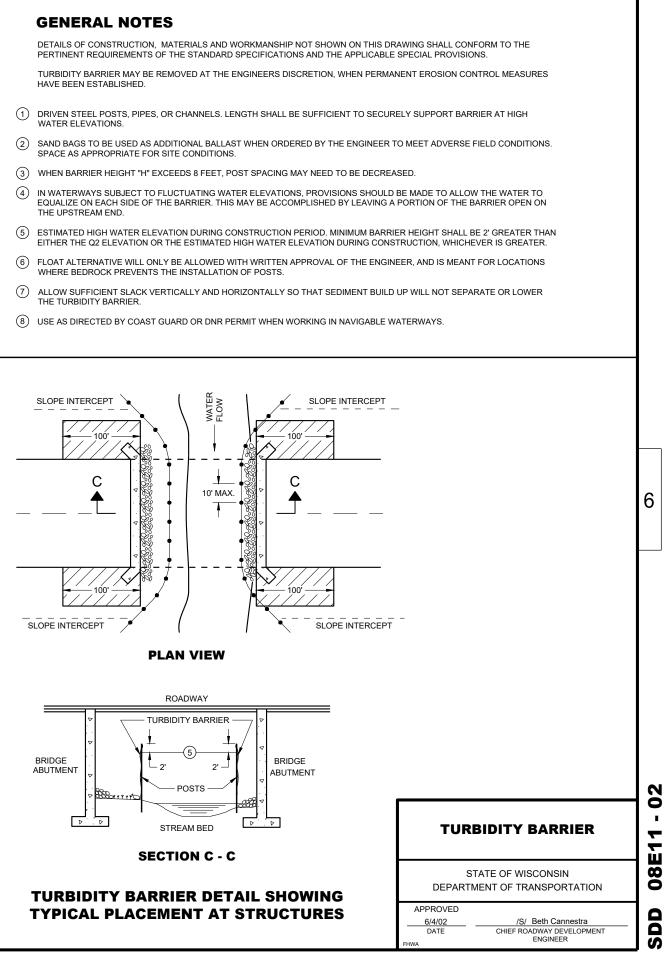


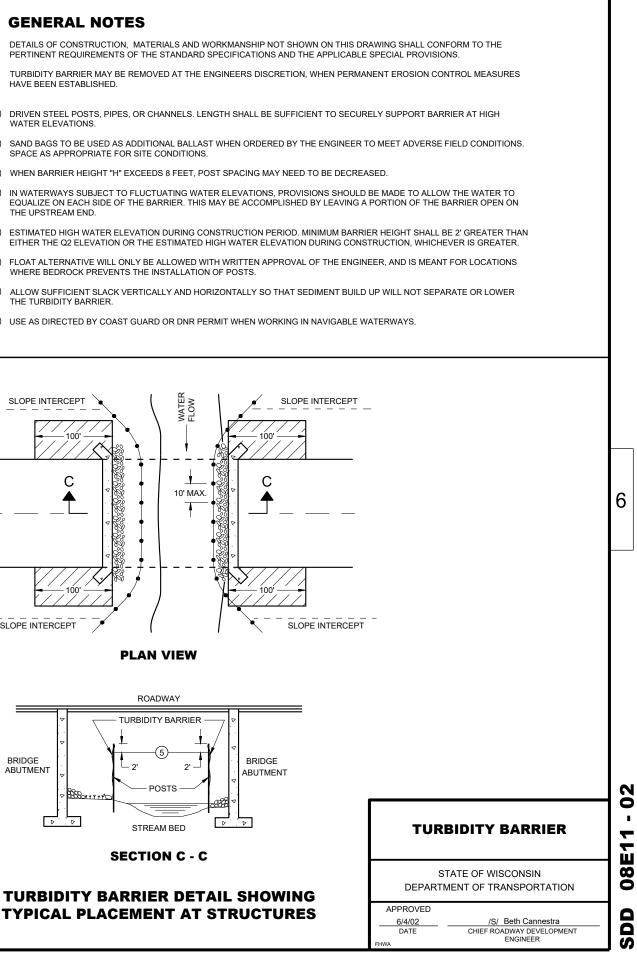
(WHEN REQUIRED BY THE ENGINEER)



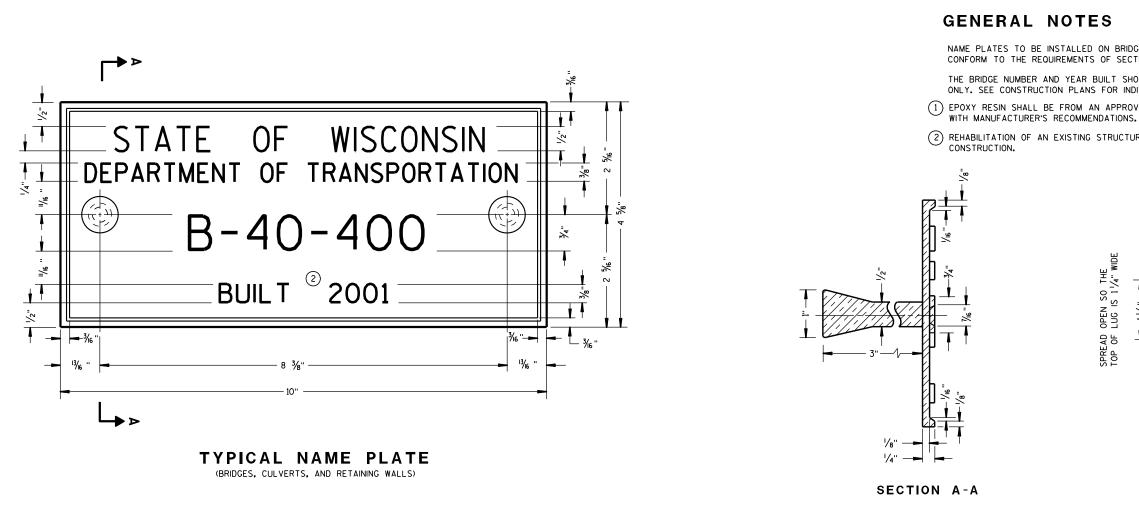


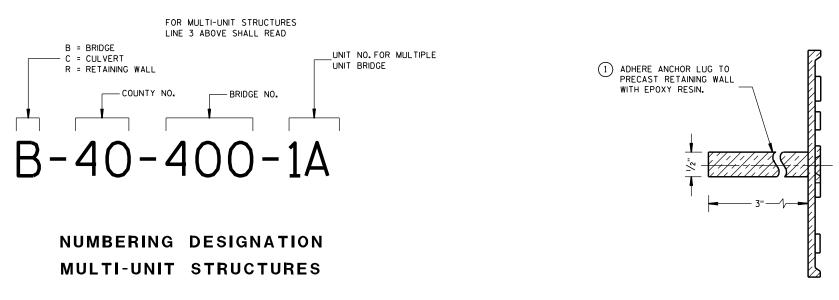
- WATER ELEVATIONS.





SDD 08E -. 02



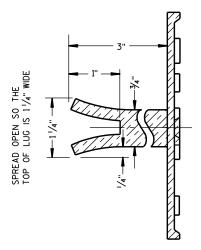


ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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)

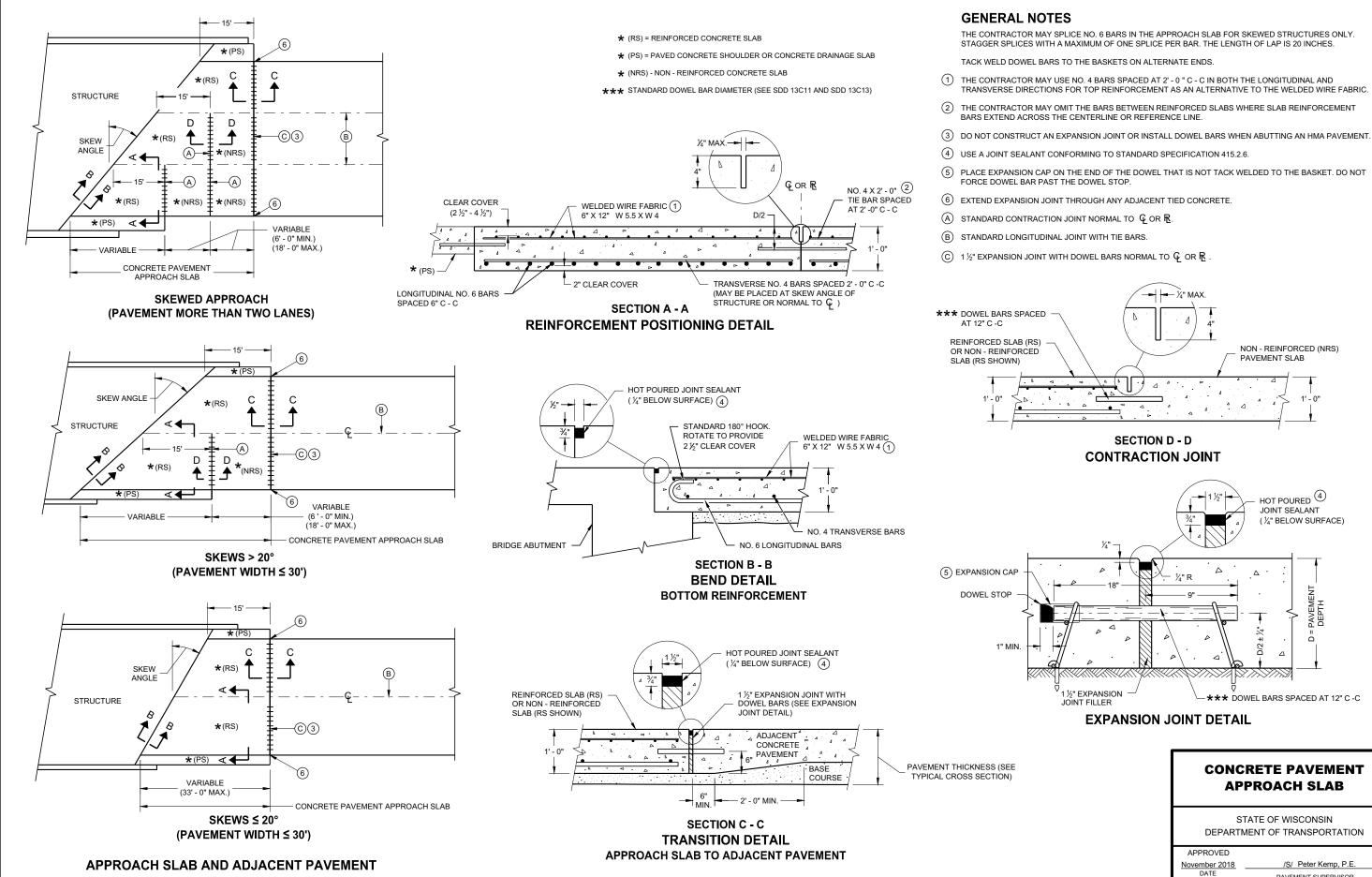
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE FHWA

/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER 6

3-10 ∢ 2 Δ Δ ഗ



SDD 13B02 09

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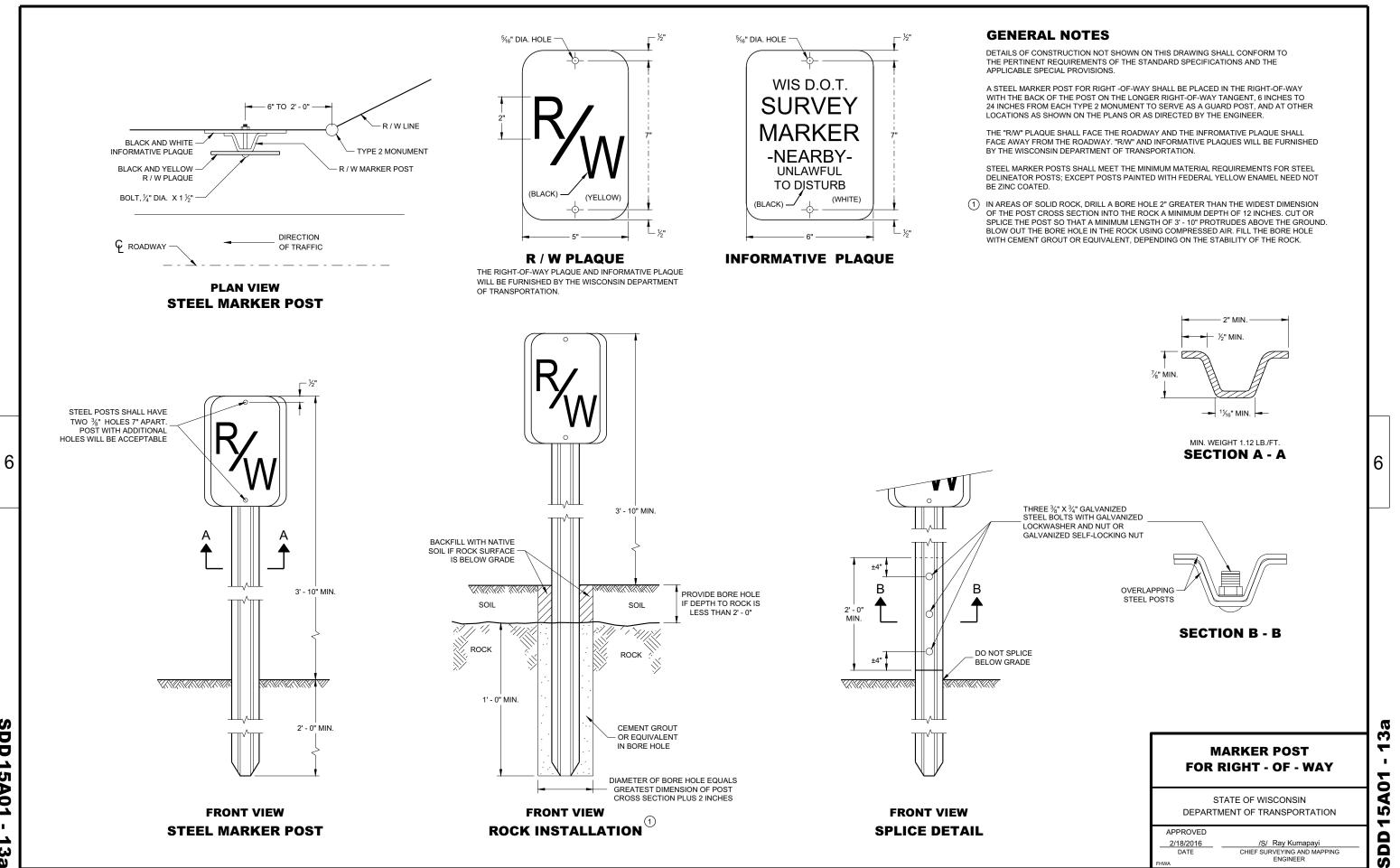
6

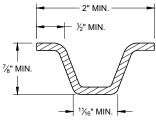
5 ດ Ó **CONCRETE PAVEMENT** . N 0 2 3 DEPARTMENT OF TRANSPORTATION ~ Δ

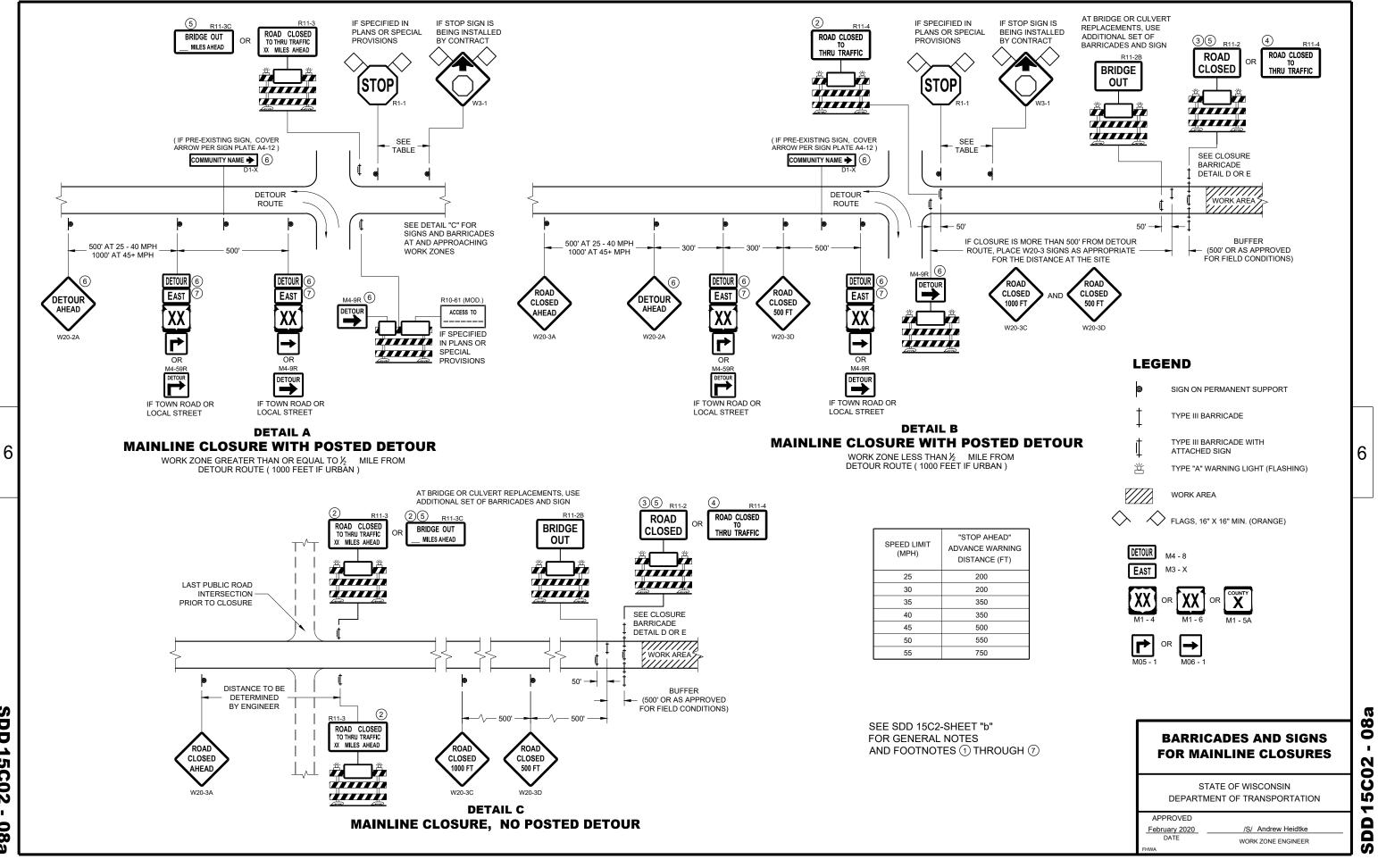
PAVEMENT SUPERVISOR

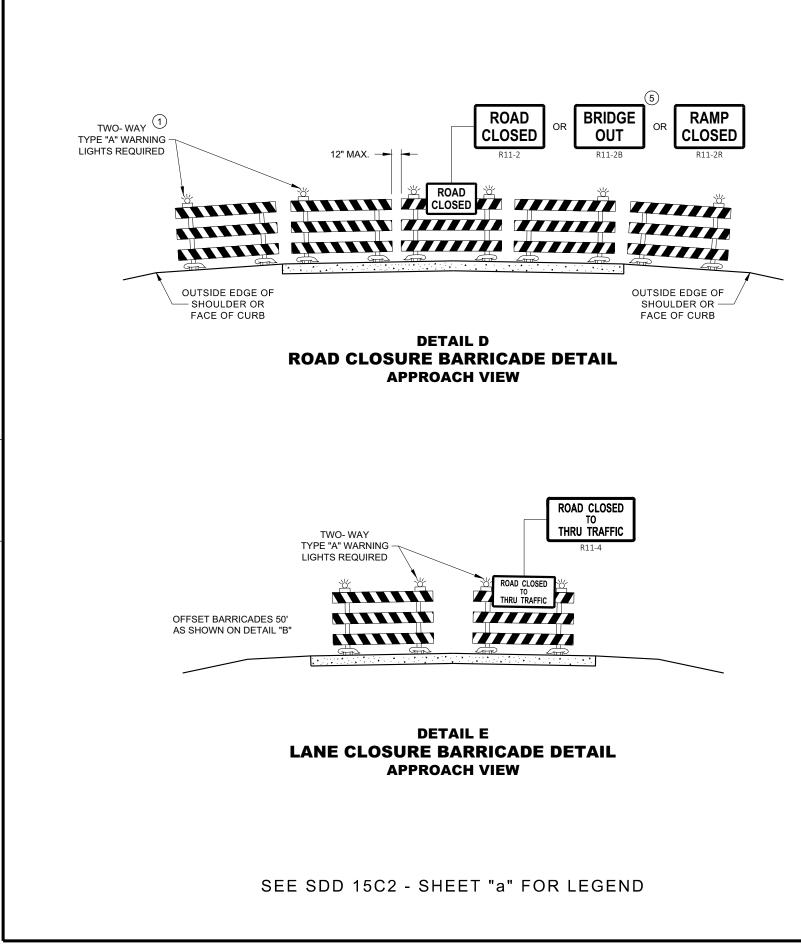
6

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GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

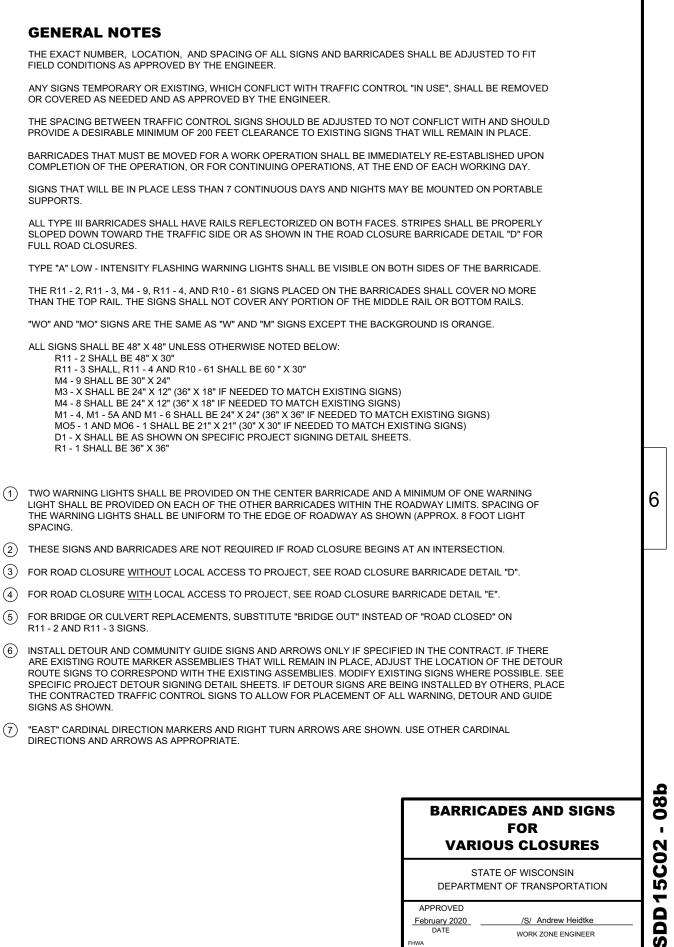
FULL ROAD CLOSURES.

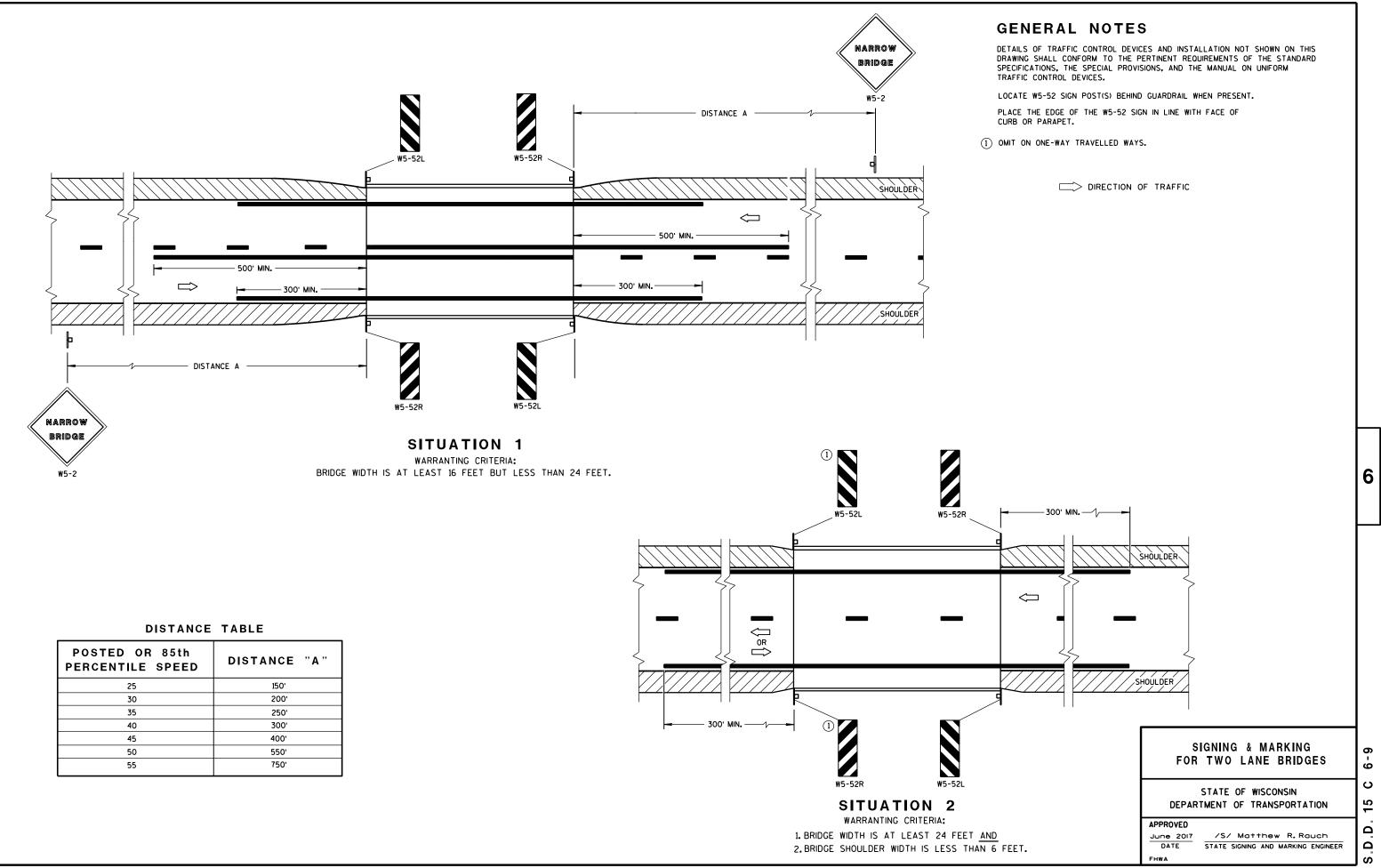
THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"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.



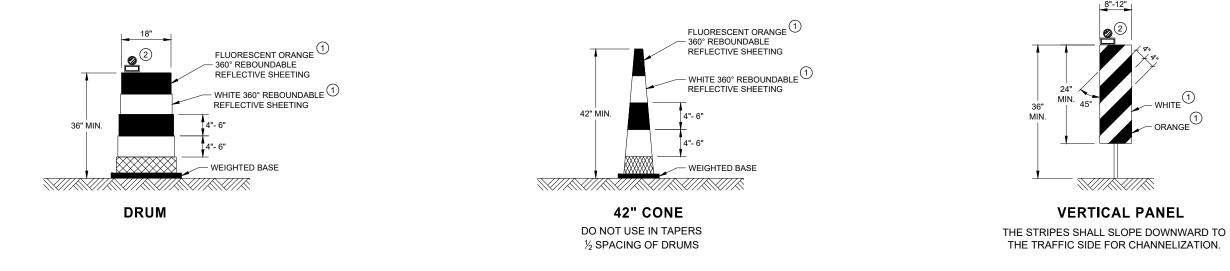


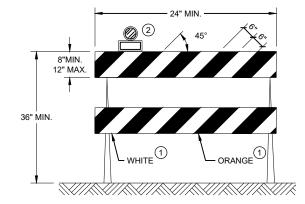
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GENERAL NOTES

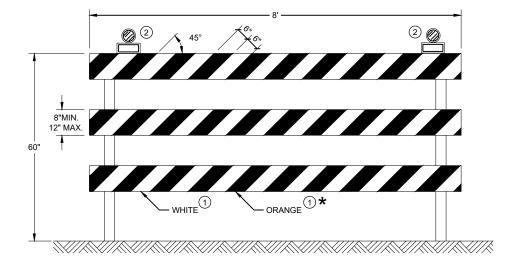
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





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.

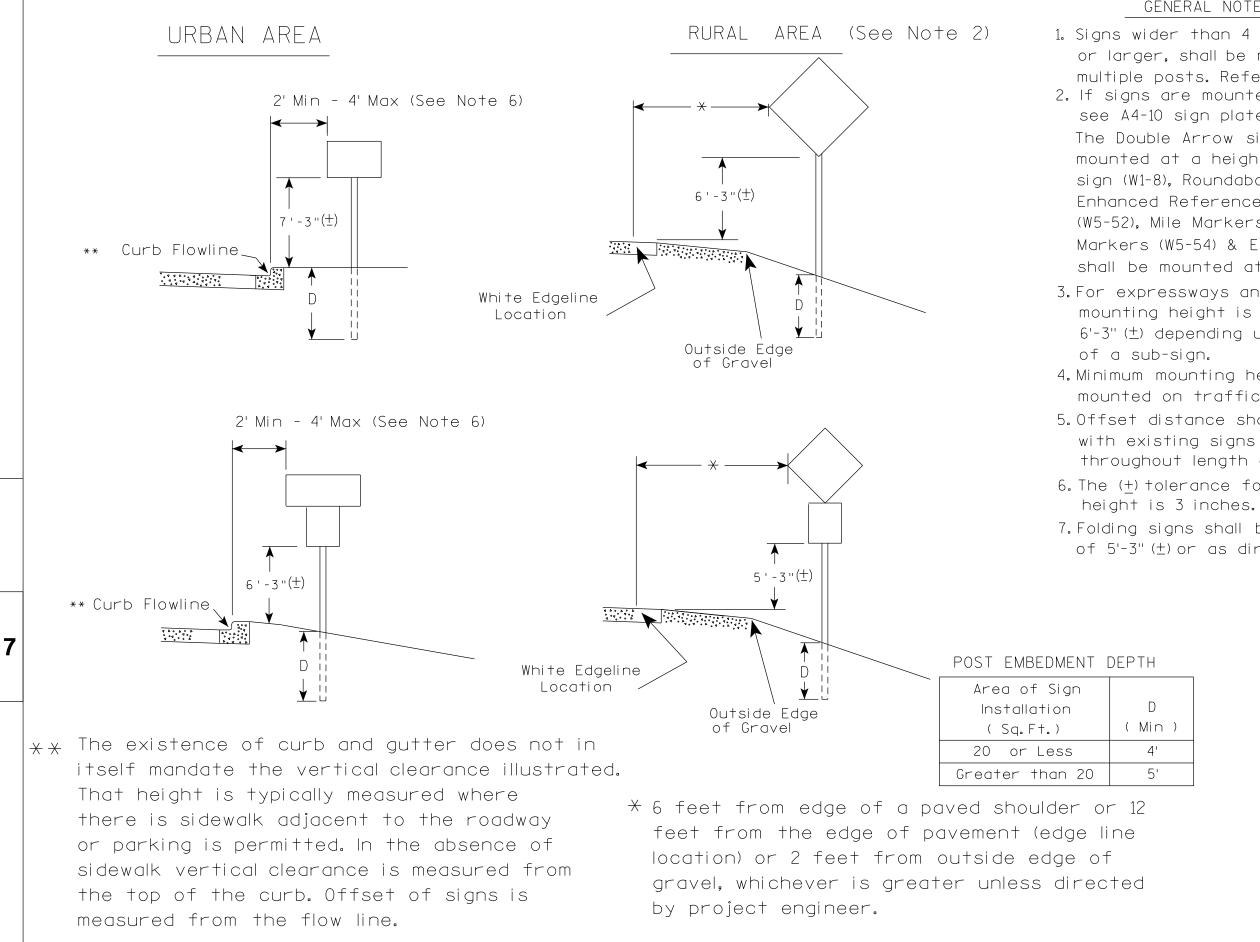
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CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2021 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

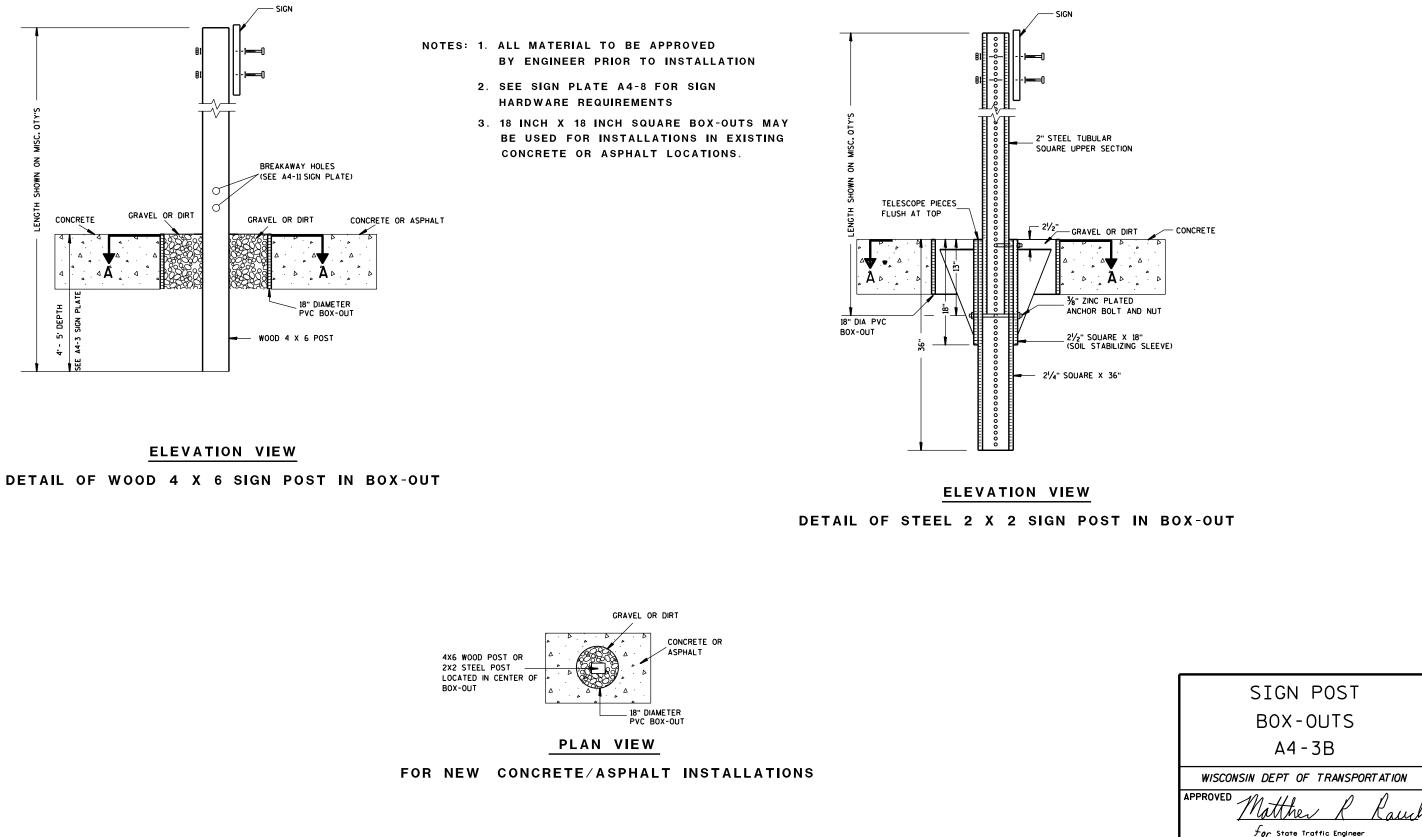


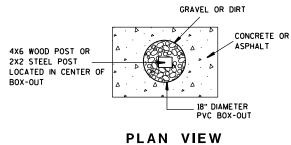
PROJECT NO:	HWY:	COUNTY:			
			DUAT DATE AT MAN AND A A	A DI OT DY O	DLOT NAME -

GENERAL NOTES

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





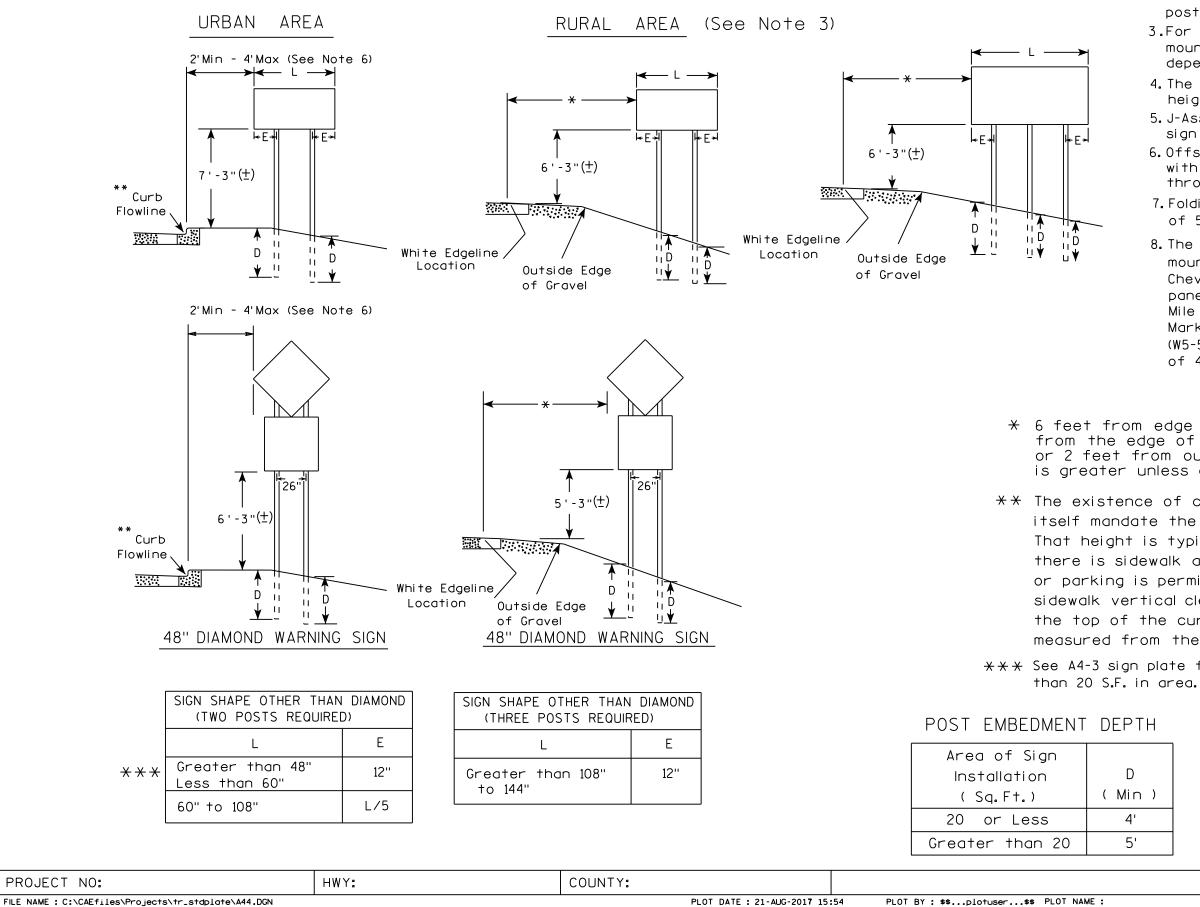
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

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

7

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.

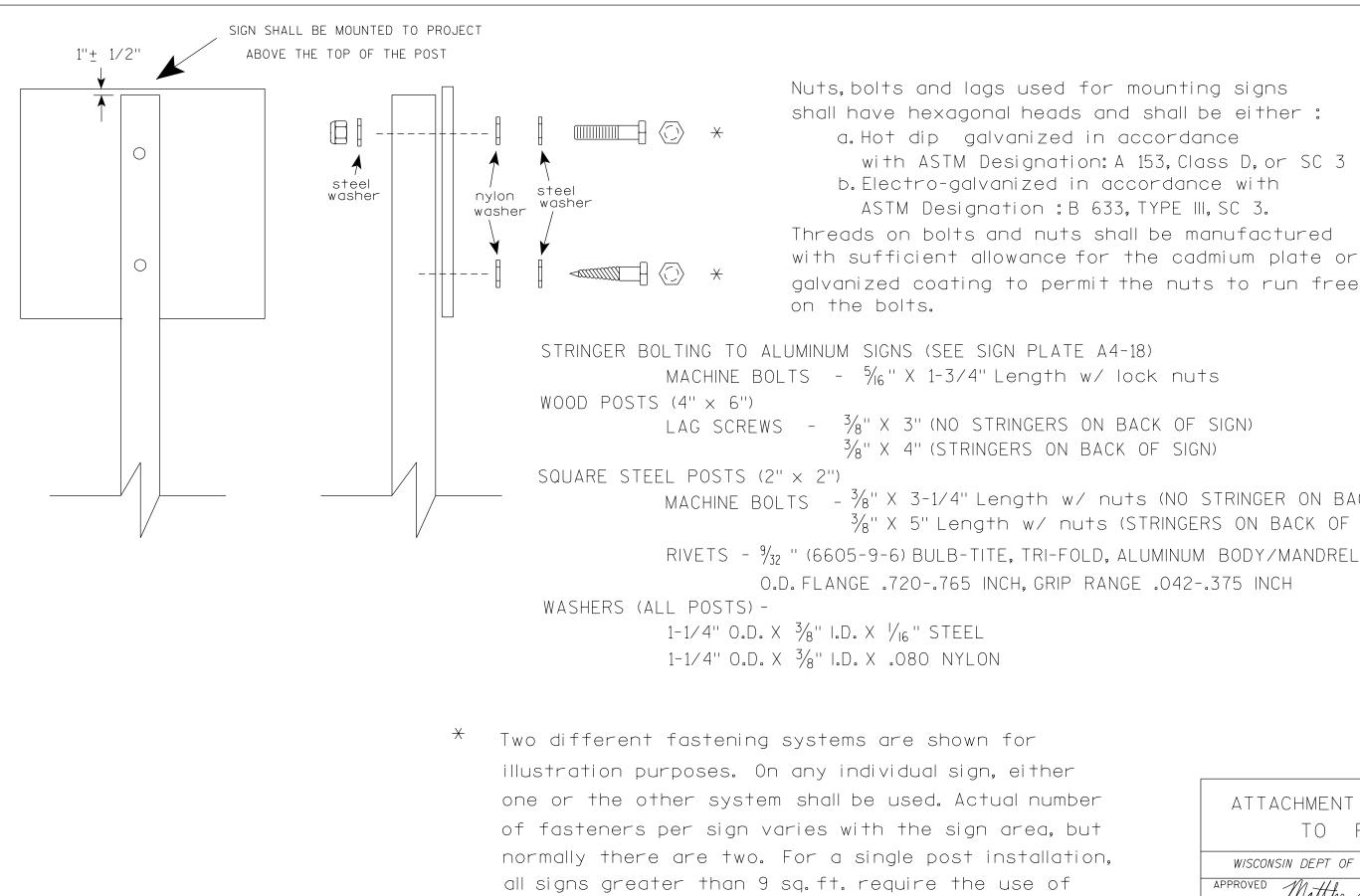
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs 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	L 5 - 100 100007-1 00000

PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



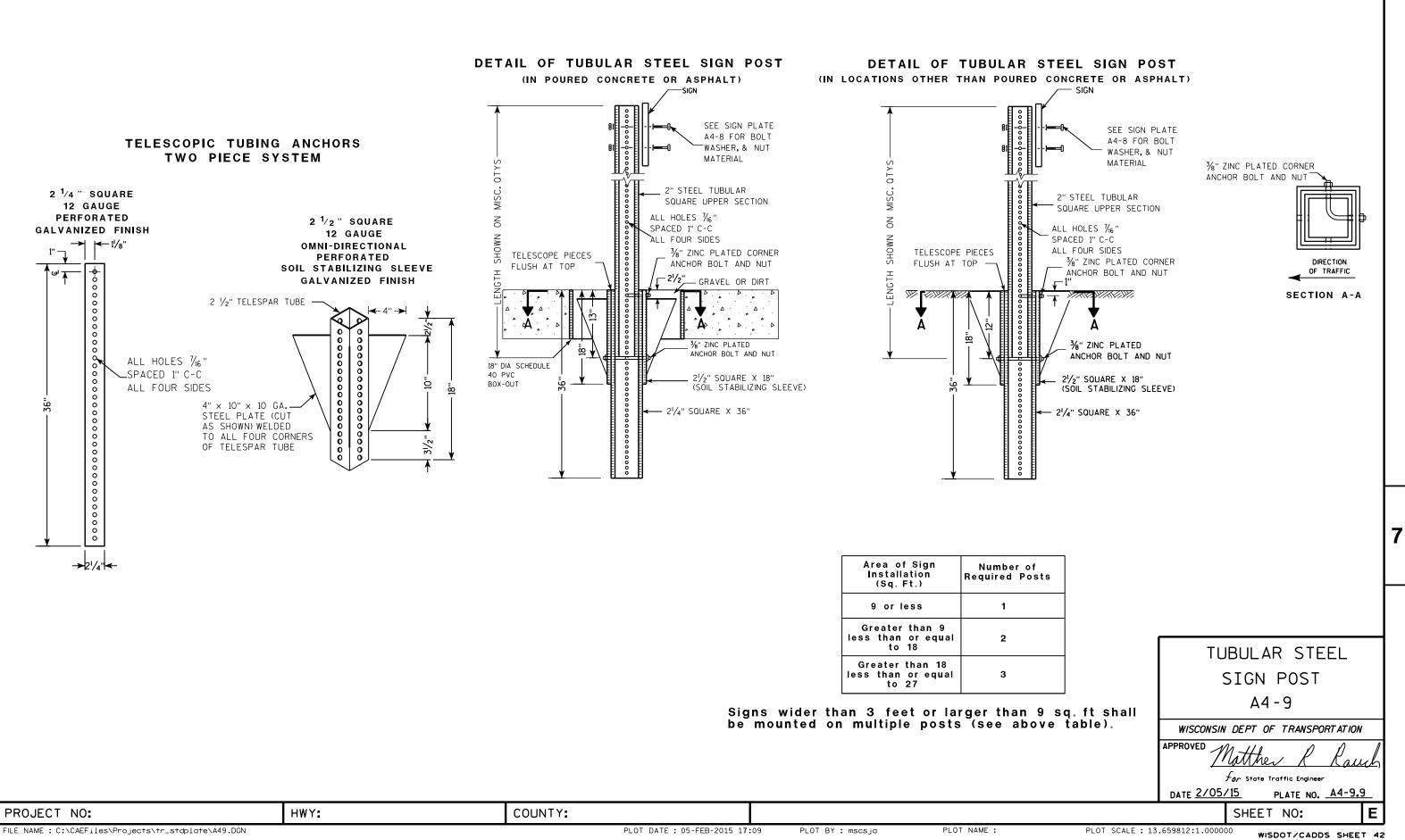
3 fasteners.

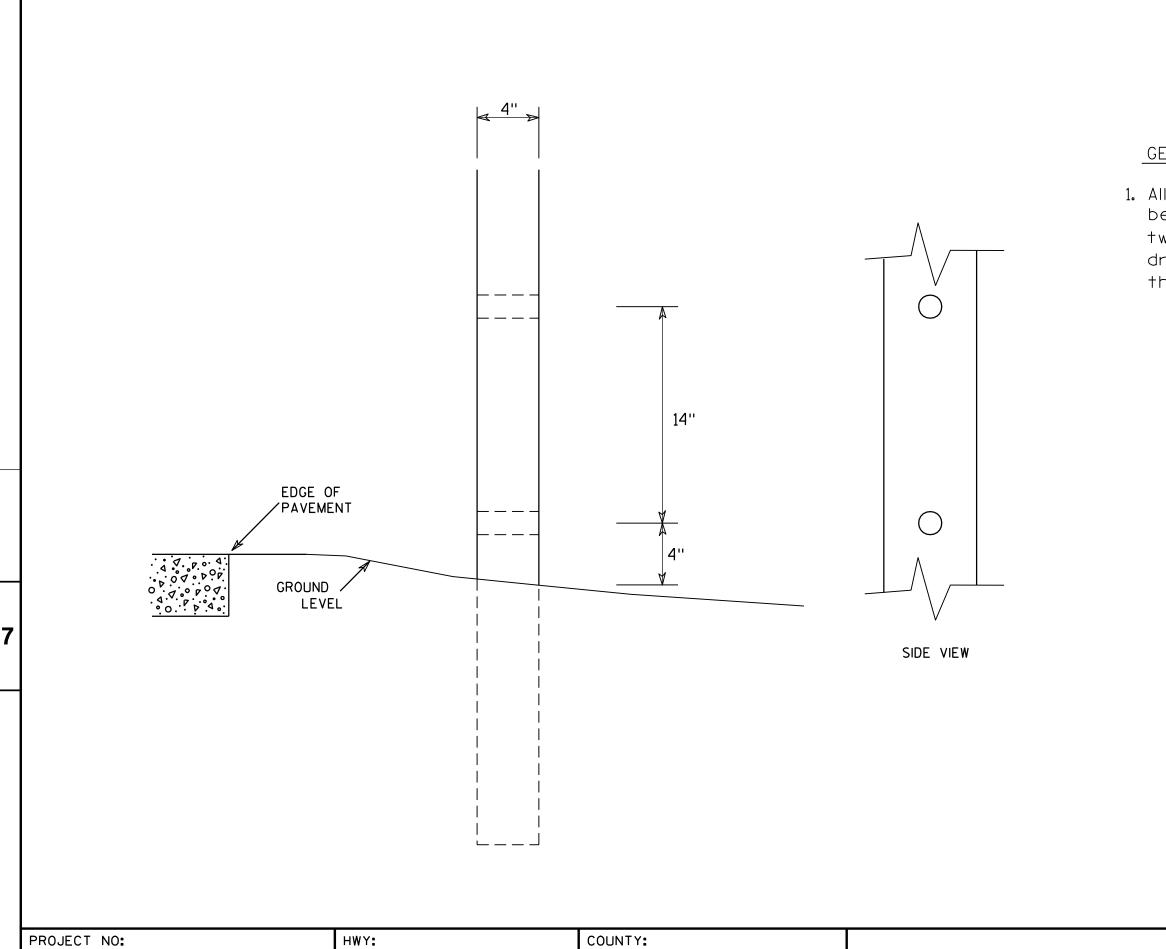
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured 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 - ³/₈" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

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



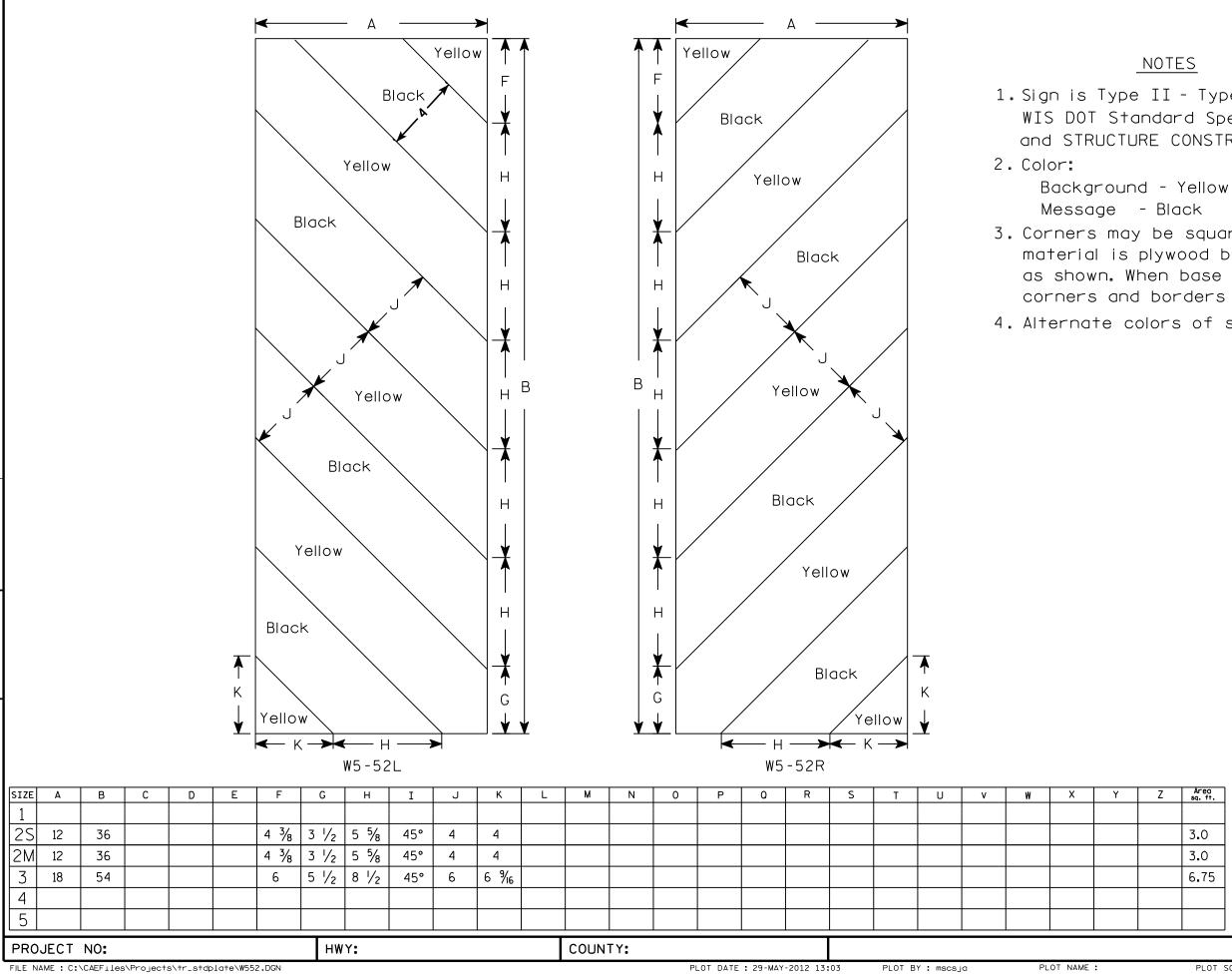


FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

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	Х	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 NO: E						
OT SCALE	E:6.20 7 33	8:1.0000	000	WISD	от/с	ADDS SHE	ET 42



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W552.DGN

7

PLOT DATE : 29-MAY-2012 13:03

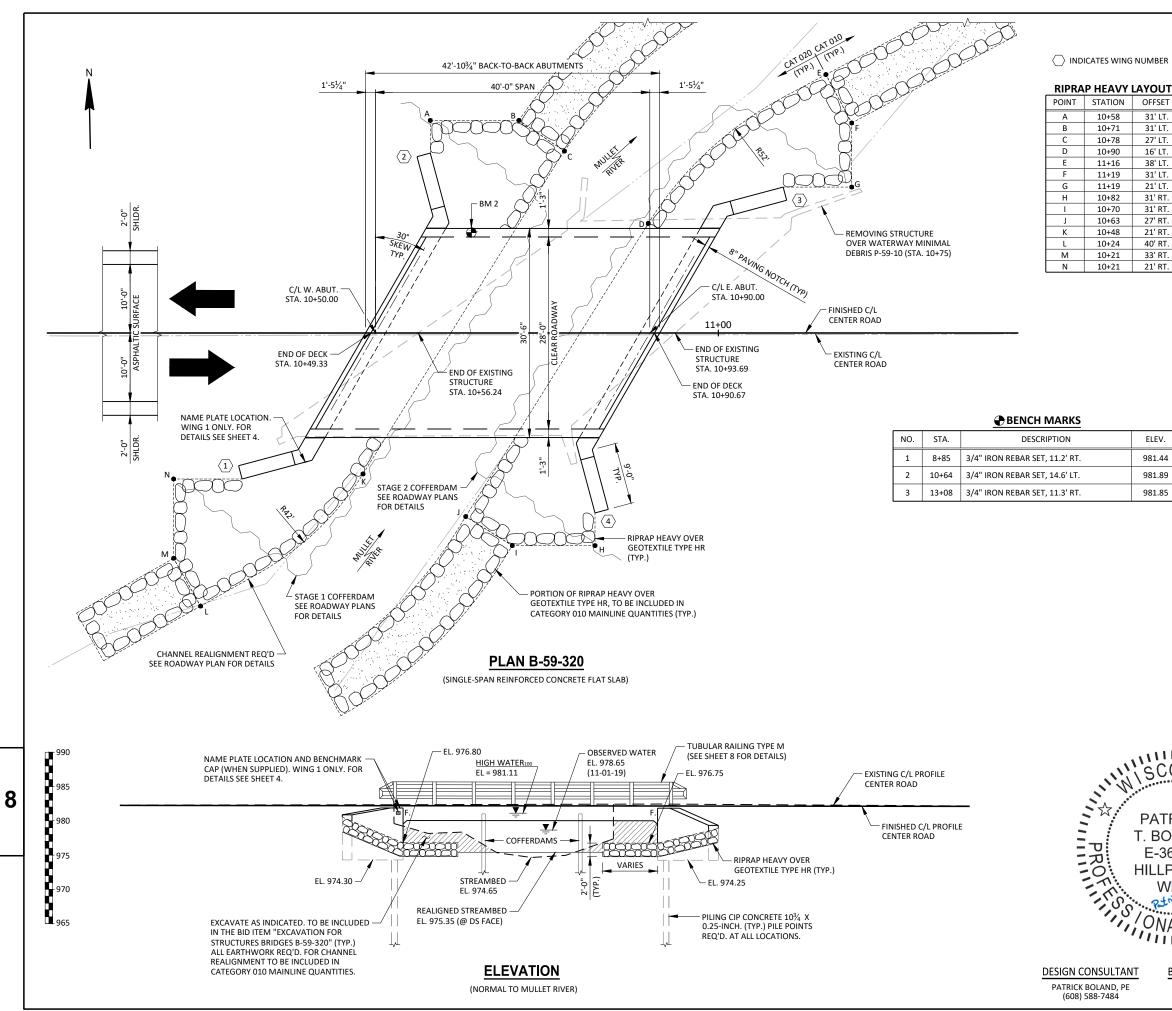
PLOT NAME :

NOTES

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

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. 4. Alternate colors of stripes as shown.

Z	Area sq. ft.	STANDARD SIGN			
		W5-52L & W5-52R			
	3.0				
	3.0	WISCONSIN DEPT OF TRANSPORTATION			
	6.75	APPROVED Matthew R Rauch			
		for State Traffic Engineer			
		DATE 5/29/12 PLATE NO. W5-52.9			
SHEET NO: E					
	PLOT SCALE : 4.961899:1.000000 WISDOT/CADDS SHEET 42				



FILE NAME S:\PROJECTS\W11607 WISDOT - CENTER ROAD, SHEBOYGAN CO\STRUCTURE\CAD FILES\FINALS\01 GENERAL PLAN.DW0 PLOT DATE : 8/31/2021 9:46:13 AM PLOT BY : BOLAND, PATRICK

STATE PROJECT NUMBER

4208-05-71

101				
FSET				
1	LT.			
'	LT.			
•	LT.			
	LT.			
'	LT.			
'	LT.			
'	LT.			
•	RT.			
'	RT.			
'	RT.			
•	RT.			
'	RT.			
'	RT.			
'	RT.			

LIVE LOAD:	
DESIGN LOADING	HL-93
INVENTORY RATING FACTOR	RF=1.14
OPERATING RATING FACTOR	RF=1.47
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV)	250 KIPS
STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF MATERIAL PROPERTIES:	20 P.S.F.
CONCRETE MASONRY, SUPERSTRUCTURE	
ALL OTHER	. f'c = 3,500 P.S.I.
HIGH-STRENGTH BAR STEEL	
REINFORCEMENT, GRADE 60	. fy = 60,000 P.S.I.

FOUNDATION DATA

DESIGN DATA

ABUTMENTS TO BE SUPPORTED ON PILING CIP CONCRETE 10³/₄ X 0.25-INCH DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 130 TONS** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATE 60 FT PILE LENGTHS AT BOTH ABUTMENTS. PILE POINTS REQ'D. AT ALL LOCATIONS.

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

TRAFFIC DATA

A.D.T. (2022)	9	95
A.D.T. (2042)	1	L40
DESIGN SPEED	5	55 M.P.H.

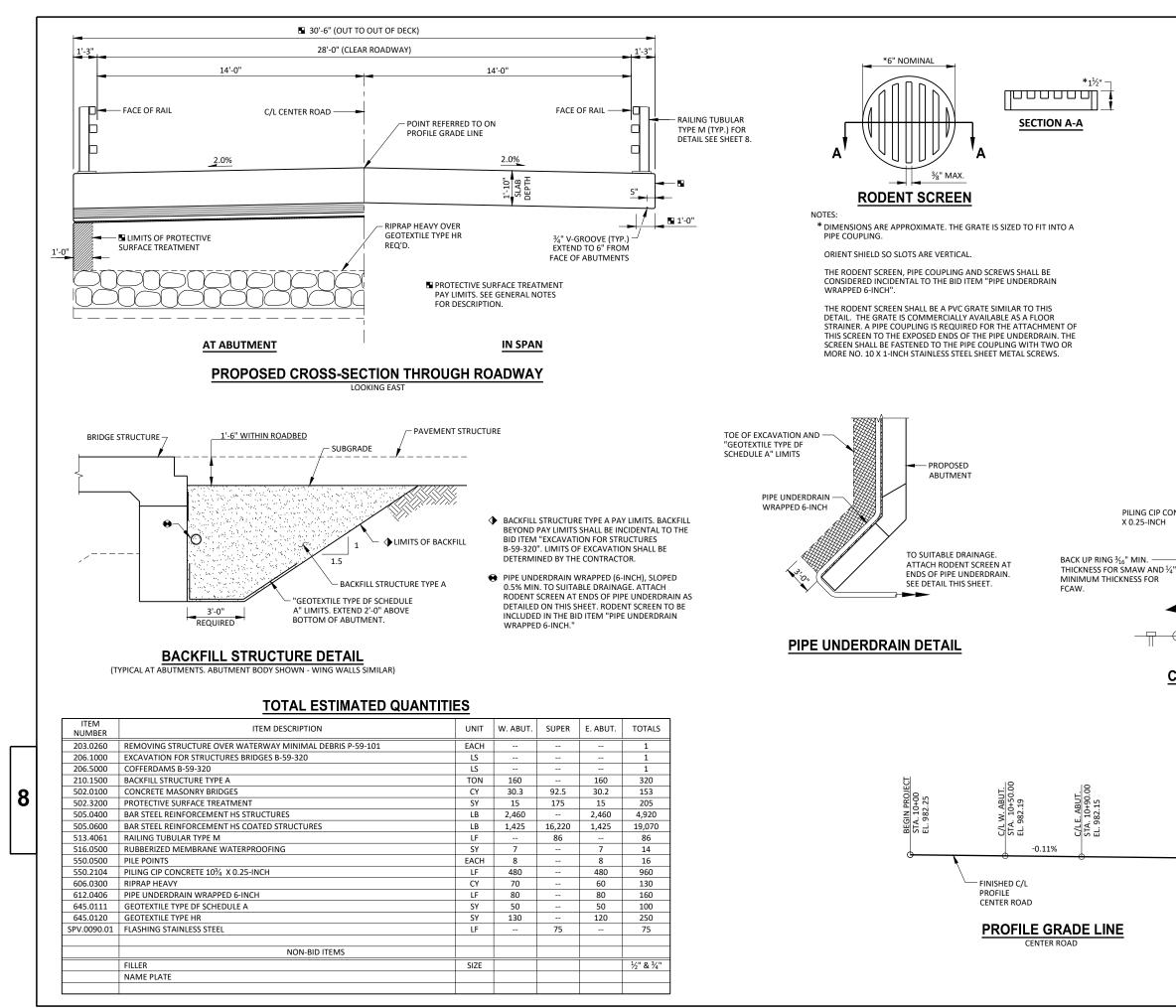
HYDRAULIC DATA

100 YEAR FREQUENCY DRAINAGE AREA	700 C.F.S. 700 C.F.S. 700 C.F.S. N/A 5.56 F.P.S.	
HIGH WATER100 ELEVATION	981.11	
EROSION CONTROL		
Q2	205 C.F.S.	
VELOCITY2	2.06 F.P.S.	
HIGH WATER2 ELEVATION	979.33	

LIST OF DRAWINGS

GENERAL PLAN	1.
CROSS SECTION AND QUANTITIES	2.
SUBSURFACE EXPLORATION	3.
ABUTMENTS	4.
ABUTMENT DETAILS	5.
SUPERSTRUCTURE	6.
SUPERSTRUCTURE DETAILS	7.
TUBULAR STEEL RAILING TYPE M	

	NO.	DATE	RE	VISION	BY	
CONS			The anglineare, Inc.	560 SUNRISE I SPRING GREEN, OFFICE: (608) 5 www.jewellasso	WI 53588 88-7484	8
ATRICK BOLAND -36303	ACCE		STATE OF W DEPARTMENT OF TR	ANSPORTATION	01/21 DATE	
		S	TRUCTUR	E B-59-320		
VVIS Contraction of the second			CENTER ROAD OVE			
N/AI ENI	COUNTY DESIGN S	SPEC.	SHEBOYGAN		REENBUSH	
inin'	DESIGNE BY	-	DESIGN	SIGN SPECIFICATIONS DRAWN BY PMF CK'D.	S PTB	
BRIDGE OFFICE CONTACT AARON BONK, PE		GEN	ERAL PLAN	SHEET	1 OF 8	
(608) 261-0261 PLOT SCALE : 1" = 1'			LAYOUT : L	AYOUT1		
BRIDGE OFFICE CONTACT AARON BONK, PE (608) 261-0261	COUNTY DESIGN S DESIGNE BY	SPEC. AASI	TRUCTUR CENTER ROAD OVE SHEBOYGAN	IN ENGINEER E B-59-320 IR MULLET RIVER TOWN/ETTY/VILLAGE G SIGN SPECIFICATIONS DRAWN PMF CK'D. SHEET	DATE REENBUSH	



4208-05-71

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD 88).

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

JOINT FILLER SHALL CONFORM TO A.A.S.H.T.O. DESIGNATION MI53, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M213.

THE SLOPE OF FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS, OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

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 TYPE A. SEE THIS SHEET FOR DETAIL.

CHANNEL REALIGNMENT AND ABUTMENT CONSTRUCTION TO TAKE PLACE IN STAGES. SEE ROADWAY PLANS FOR STAGING DETAILS AND COFFERDAM LOCATIONS.

ANY EXCAVATION BELOW THE ABUTMENT AND ASSOCIATED ABUTMENT BEDDING MATERIALS REQUIRE THE APPROVAL OF THE ENGINEER IN THE FIELD.

AT THE DECK, APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP OF THE DECK (CONCRETE MATERIAL ONLY), THE SIDES OF THE DECK, THE EXTERIOR 12" OF THE UNDERSIDE OF THE DECK, AND THE HORIZONTAL AND VERTICAL FACES OF THE PAVING NOTCH. AT THE ABUTMENTS, APPLY TO THE TOP AND EXTERIOR EXPOSED FACES OF WINGS AND THE FRONT FACE OF ABUTMENTS TO 12" PAST THE EDGE OF SLAB. SEE THIS SHEET FOR DETAIL.

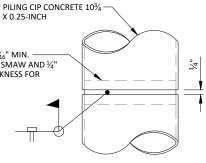
THE EXISTING STRUCTURE (P-59-101) IS A CONCRETE FLAT SLAB STRUCTURE SUPPORTED ON CONCRETE ABUTMENTS. THE STRUCTURE HAS A CLEAR ROADWAY WIDTH OF 28.0 FEET AND IS 33.1' LONG AND SHALL BE REMOVED.

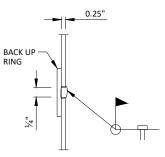
ALL STATIONS AND ELEVATIONS SHOWN ARE IN FEET.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATIVE METHOD IS APPROVED BY THE ENGINEER IN THE FIELD.

THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

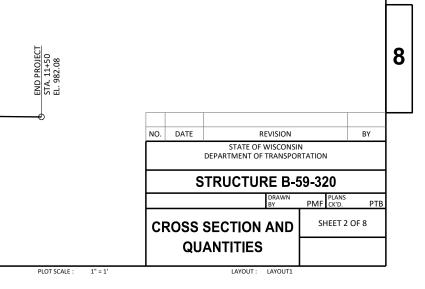


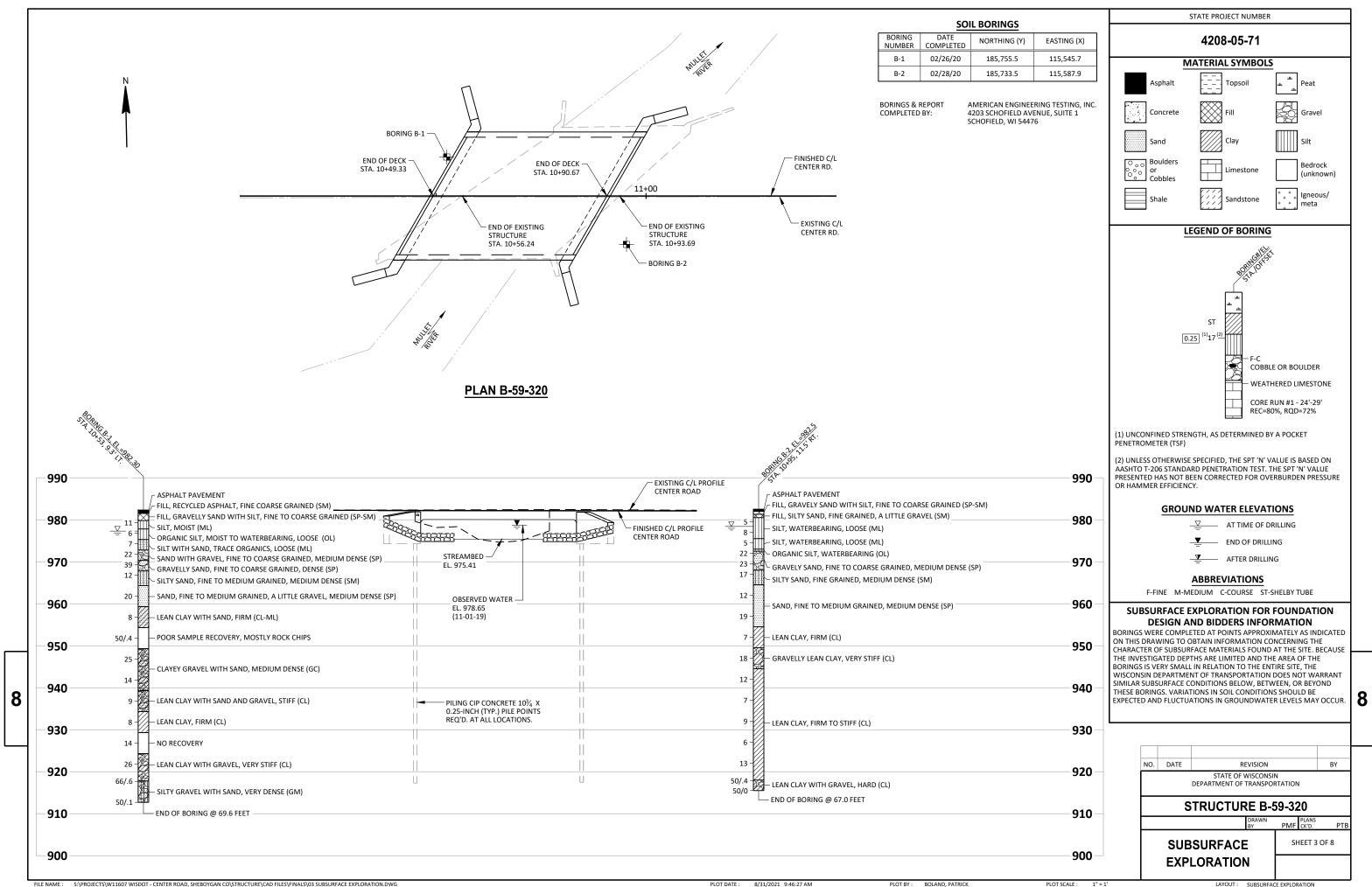


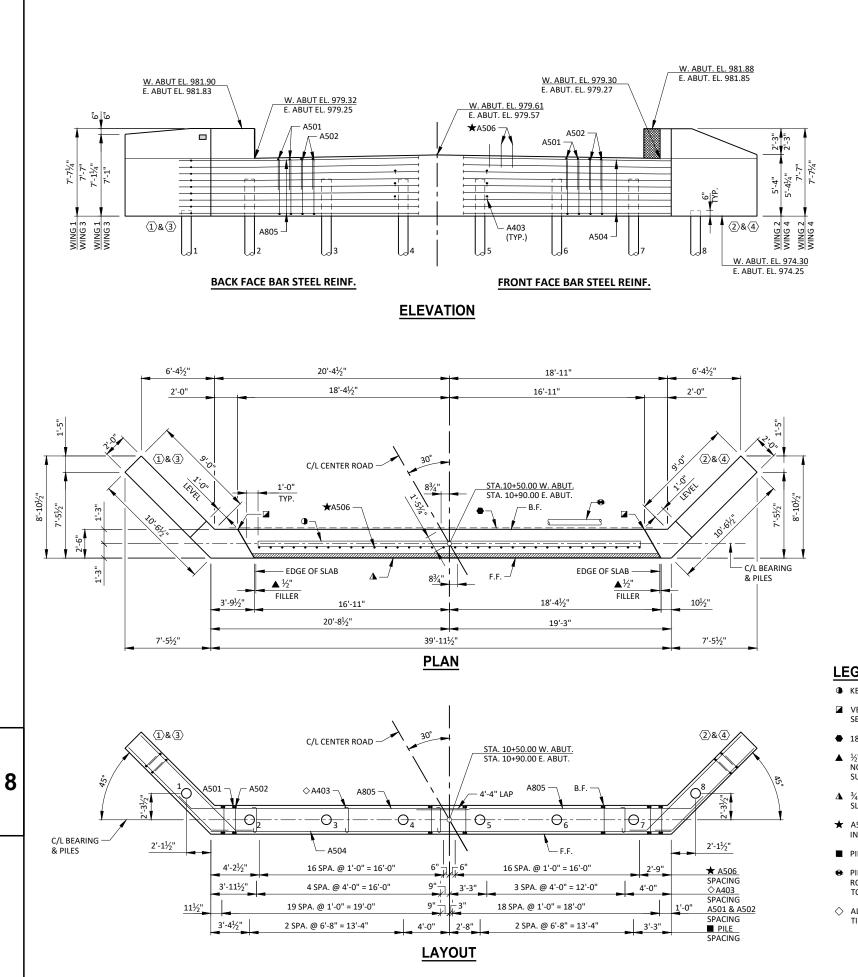
CAST-IN-PLACE 'PIPE PILE' C.I.P. PILE WELD DETAIL

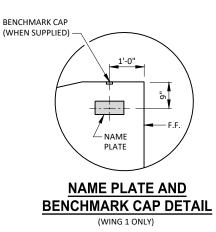
NOTES:

CAST-IN-PLACE PILE SHELL MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS

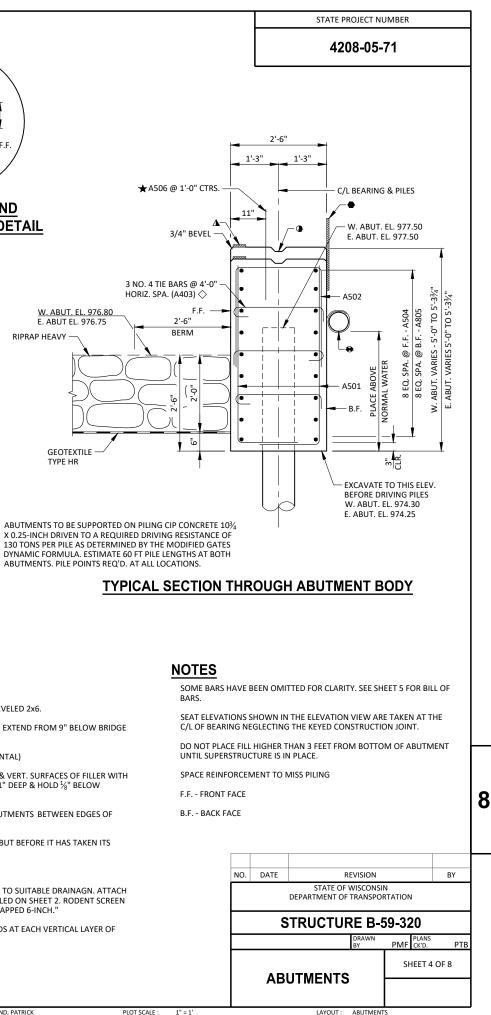








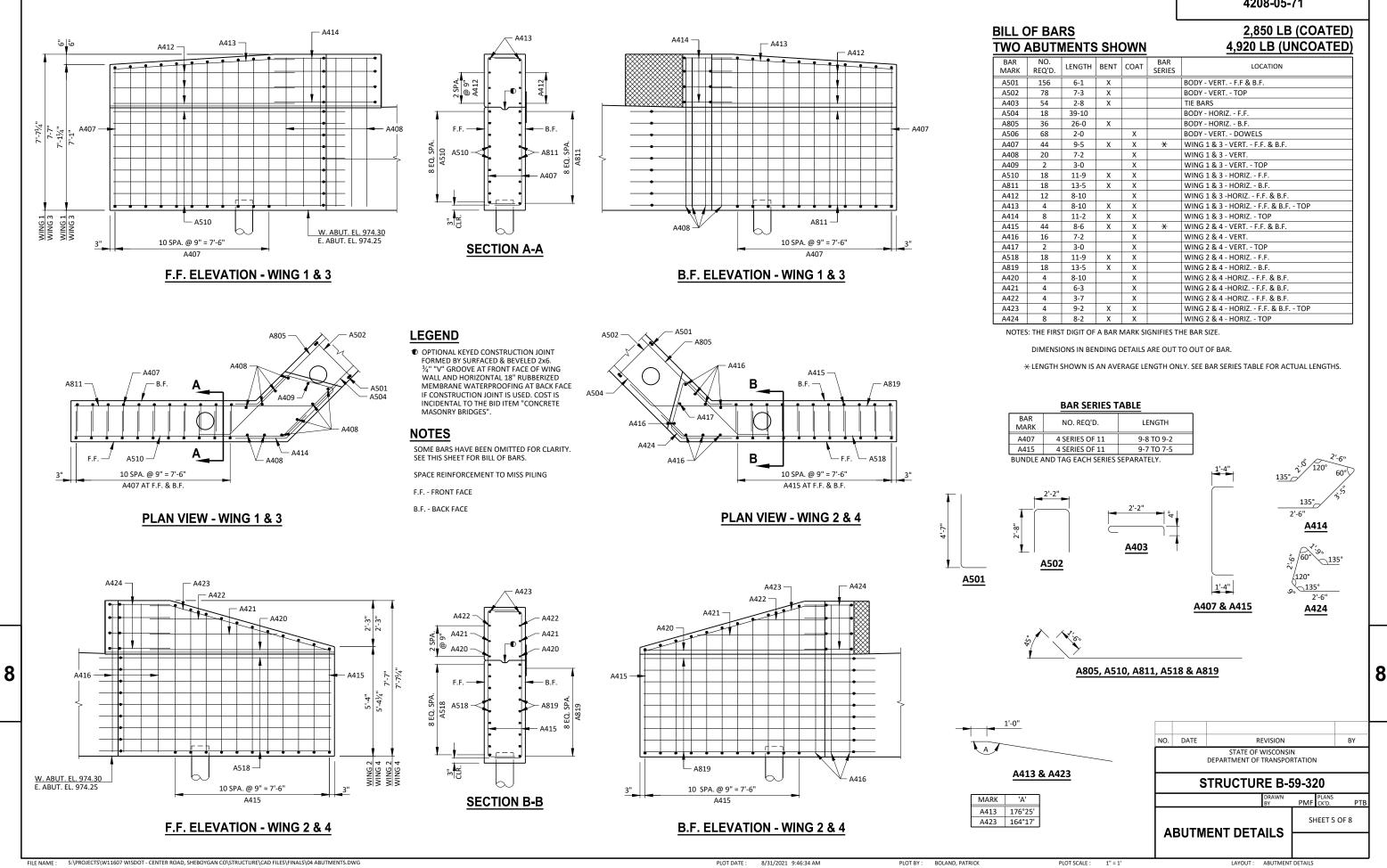
RIPRAP HEAVY



TYPE HR

LEGEND

- KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BEVELED 2x6.
- VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING EXTEND FROM 9" BELOW BRIDGE SEAT TO 1" BELOW TOP OF WINGS.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZONTAL)
- ▲ ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINUOS JOINT SEALER. (1" DEEP & HOLD ½" BELOW SURFACE OF CONCRETE)
- Δ $\frac{3}{4}$ " x 4" PREFORMED FILLER, EXTEND FULL LENGTH OF ABUTMENTS BETWEEN EDGES OF SLAB.
- ★ A506 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE IT HAS TAKEN ITS INITIAL SET. EMBED BAR 1'-0".
- PILE SPACING MEASURED AT BASE OF ABUTMENT BODY.
- € PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPED 0.5% MIN. TO SUITABLE DRAINAGN, ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 2. RODENT SCREEN TO BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH."
- \diamondsuit Alternate the position of the 90° and the 180° bends at each vertical layer of TIES.



BOLAND, PATRICK

STATE PROJECT NUMBER

4208-05-71

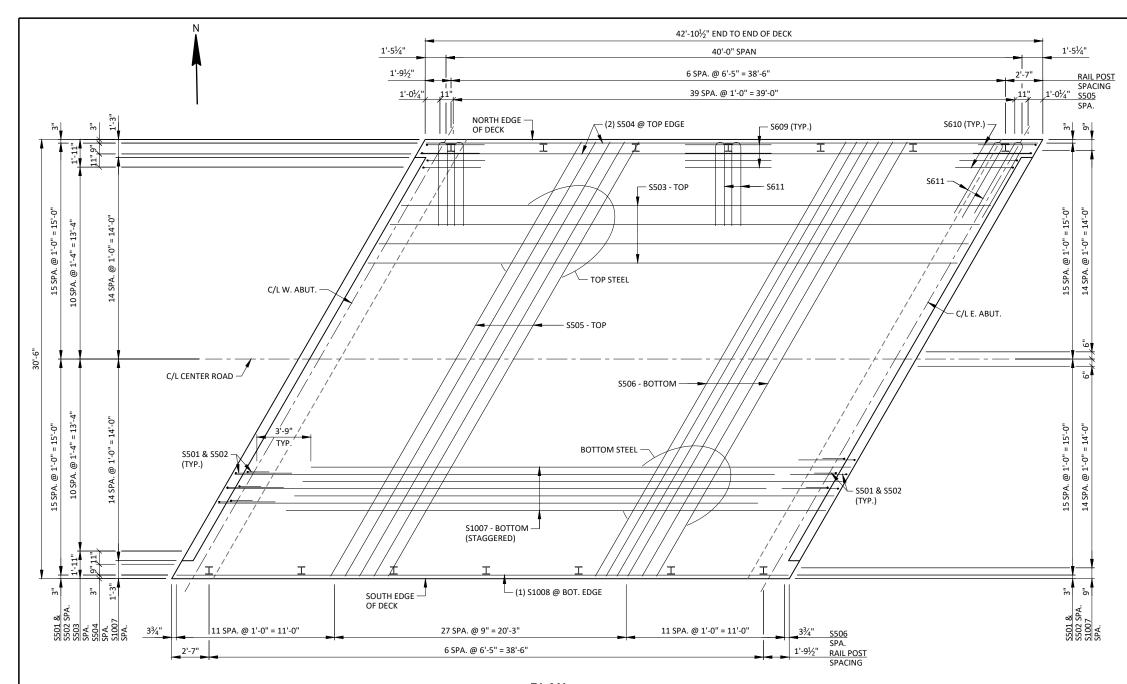
NO. REQ'D.	LENGTH	BENT	COAT	BAR SERIES	LOCATION
156	6-1	X			BODY - VERT F.F & B.F.
78	7-3	X			BODY - VERT TOP
54	2-8	Х			TIE BARS
18	39-10				BODY - HORIZ F.F.
36	26-0	Х			BODY - HORIZ B.F.
68	2-0		Х		BODY - VERT DOWELS
44	9-5	X	Х	*	WING 1 & 3 - VERT F.F. & B.F.
20	7-2		Х		WING 1 & 3 - VERT.
2	3-0		Х		WING 1 & 3 - VERT TOP
18	11-9	X	Х		WING 1 & 3 - HORIZ F.F.
18	13-5	X	Х		WING 1 & 3 - HORIZ B.F.
12	8-10		Х		WING 1 & 3 -HORIZ F.F. & B.F.
4	8-10	X	Х		WING 1 & 3 - HORIZ F.F. & B.F TOP
8	11-2	Х	Х		WING 1 & 3 - HORIZ TOP
44	8-6	Х	Х	×	WING 2 & 4 - VERT F.F. & B.F.
16	7-2		Х		WING 2 & 4 - VERT.
2	3-0		Х		WING 2 & 4 - VERT TOP
18	11-9	X	Х		WING 2 & 4 - HORIZ F.F.
18	13-5	X	Х		WING 2 & 4 - HORIZ B.F.
4	8-10		Х		WING 2 & 4 -HORIZ F.F. & B.F.
4	6-3		Х		WING 2 & 4 -HORIZ F.F. & B.F.
4	3-7		Х		WING 2 & 4 -HORIZ F.F. & B.F.
4	9-2	Х	Х		WING 2 & 4 - HORIZ F.F. & B.F TOP
8	8-2	X	Х		WING 2 & 4 - HORIZ TOP

AR ARK	NO. REQ'D.	LENGTH		
07	4 SERIES OF 11	9-8 TO 9-2		
4 SERIES OF 11		9-7 TO 7-5		





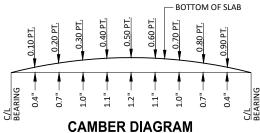




PLAN

TOP OF DECK ELEVATIONS

	C/L W.	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	C/LE.
	ABUT.	PNT.	ABUT.								
N. EDGE	981.88	981.87	981.87	981.87	981.86	981.86	981.85	981.85	981.84	981.84	981.83
C/L	982.19	982.19	982.18	982.18	982.18	982.17	982.17	982.16	982.16	982.15	982.15
S. EDGE	981.90	981.89	981.89	981.89	981.88	981.88	981.87	981.87	981.86	981.86	981.85



CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPAN AS SHOWN TO PROVIDE FOR THEORETICAL DEADLOAD DEFLECTION AND FUTURE PLASTIC FLOW. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB OR CENTER LINE FOLLOW THIS PROCEDURE: TOP OF SLAB ELEVATION AT FINAL GRADE -SLAB THICKNESS +CAMBER

+FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (COMPUTED BY CONTRACTOR) =TOP OF SLAB FALSEWORK ELEVATION.

8

4208-05-71

NOTES

SUPPORT ALTERNATE TOP TRANSVERSE BARS IN SLAB BY INDIVIDUAL BAR CHAIRS AT APPROX. 3'-0" CENTERS. SUPPORT BOTTOM LONGITUDINAL BARS BY CONTINUOUS BAR CHAIRS AT APPROX. 4'-0" CENTERS.

PLACE TRANSVERSE BARS PARALLEL TO THE CENTERLINE OF SUBSTRUCTURE UNITS.

THE SLAB THICKNESS DIMENSION IS MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

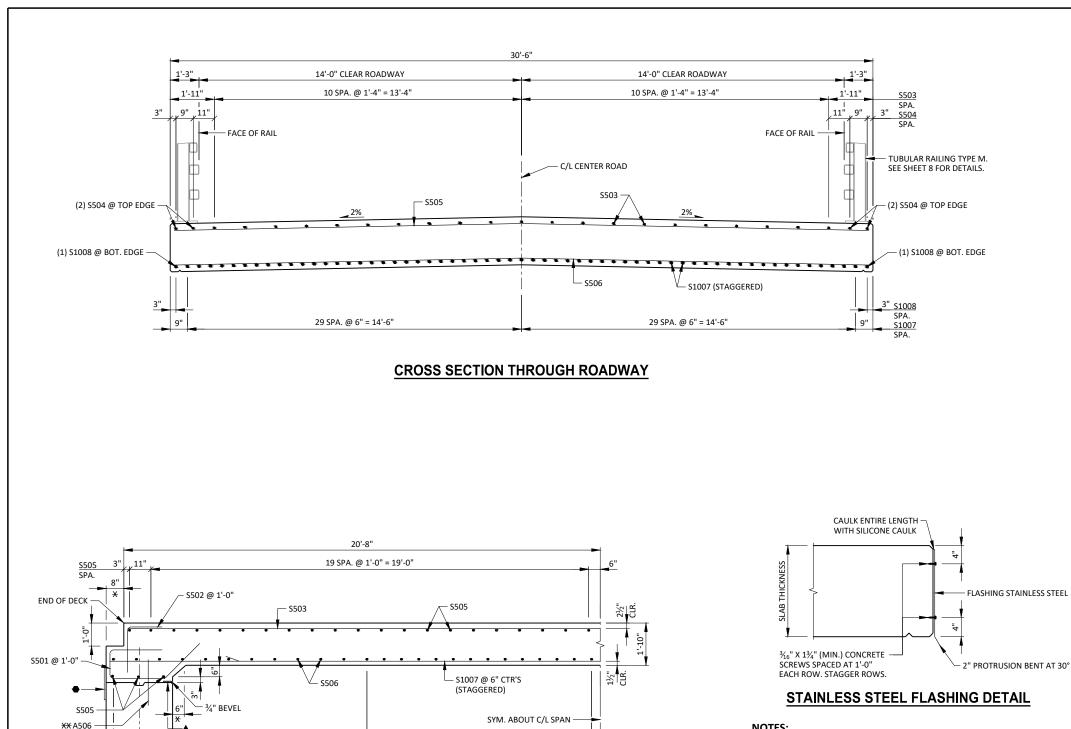
SURVEY TOP OF DECK ELEVATIONS

	W. ABUT.	0.50 PT.	E. ABUT.
NORTH EDGE OF DECK			
CENTER LINE			
SOUTH EDGE OF DECK			

PRIOR TO RELEASING SLAB FASLEWORK, TAKE TOP OF DECK ELEVATIONS AT THE C/L OF THE ABUTMENTS AND AT 0.50 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG THE EDGE OF DECK AND CENTER LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

> NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-59-320 PLANS PMF CK'D. PTF SHEET 6 OF 8 SUPERSTRUCTURE

8



13 SPA. @ 9" = 9'-9"

4½"

NOTES:

THE BID ITEM "FLASHING STAINLESS STEEL" SHALL INCLUDE PROVIDING AND INSTALLING THE STAINLESS STEEL FLASHING, SILICONE CAULK, $\frac{3}{16}$ " CONCRETE SCREWS, AND CLEANING THE EDGE OF DECK PRIOR TO ATTACHMENT OF THE FLASHING.

FLASHING TO BE INSTALLED AFTER APPLICATION OF PROTECTIVE SURFACE TREATMENT.

CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.

EXTEND FLASHING TO F.F. OF ABUTMENT.

TOP OF FLASHING TO BEGIN APPROXIMATELY 1" BELOW TOP OF SLAB SURFACE.

THE FLASHING IS TO BE A CONSTANT HEIGHT BASED ON THE THINNEST SLAB DEPTH OVER THE BRIDGE LENGTH.

C/L ABUT.

<u>S506</u> 3³/₄" SPA.

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

PARTIAL LONGITUDINAL SECTION THROUGH ROADWAY

4208-05-71

BILL OF BARS SUPERSTRUCTURE

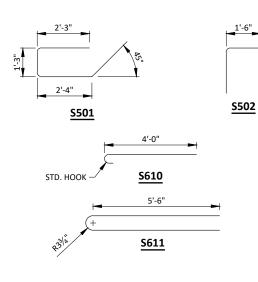
16,220 LB (COATED)

BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	LOCATION
S501	62	7-10	Х	X	ENDS OF DECK
S502	62	3-4	Х	X	ENDS OF DECK
S503	21	40-11		X	SLAB - TOP - LONGIT.
S504	4	42-6		X	SLAB - TOP - LONGIT EDGES
S505	48	34-10		X	SLAB - TOP - TRANS. & AT ABUTS.
S506	50	34-10		X	SLAB - BOTTOM - TRANS.
S1007	59	37-6		X	SLAB - BOTTOM - LONGIT.
S1008	2	42-6		X	SLAB - BOTTOM - LONGIT EDGES
S609	40	6-0		X	RAIL POSTS - INTERIOR
S610	16	4-8	Х	X	RAIL POSTS - CORNERS
S611	28	12-0	Х	Х	RAIL POSTS

NOTES: THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

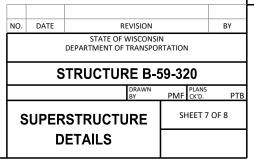
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

SOME BARS HAVE BEEN OMITTED FOR CLARITY.



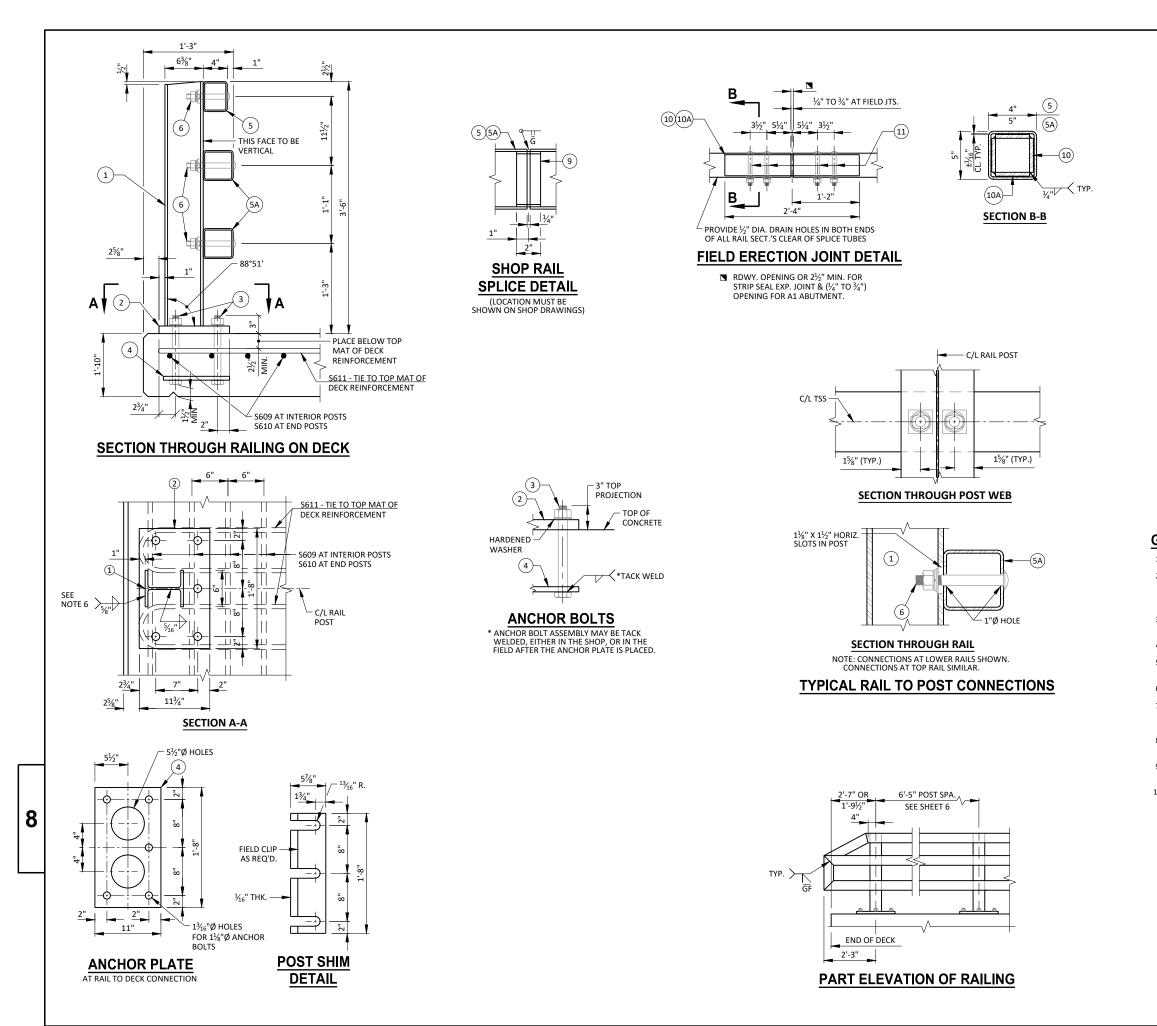
LEGEND

- 18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZONTAL)
- ▲ ³⁄₄" x 4" PREFORMED FILLER, EXTEND FULL LENGTH OF ABUTMENTS BETWEEN EDGES OF SLAB.
- * DIMENSION IS NORMAL TO THE C/L OF SUBSTRUCTURE UNITS.
- **XX** SEE SHEET 4 FOR PLACEMENT OF A506 BARS.



8

LAYOUT : SUPER DETAILS



4208-05-71

LEGEND

- (1) W6x25 WITH 1¹/₈" x 1¹/₂" HORIZONTAL SLOTS ON EACH SIDE OF POST FOR BOLT NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- 0 plate $1\frac{1}{2}4^{''}x11\frac{3}{2}4^{''}x1^{1}\cdot8^{''}$ with $1\frac{7}{16}^{''}$ dia. Oversized holes for anchor bolts no. 3. Weld to no. 1 as shown.
- (3) ASTM A449 1½" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG.
- (4) $\frac{5}{3}$ "x11"x1'-8" ANCHOR PLATE (GALVANIZED) WITH $1\frac{3}{16}$ " DIA. HOLES FOR ANCHOR BOLTS NO. 3.
- (5) TSS 5x4x0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- (5A) TSS 5x5x0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- (6) 7/3" DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, 3/16" x15/8" MIN. WASHER, AND LOCK WASHER (2 REQ'D. AT EACH RAIL TO POST LOCATION).
- (9) SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".
- (10) ³/₈"x3⁵/₈"x2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.
- (10A) ¾"x25/%"x2'-4" PLATE USED IN NO. 5, ¾"x35/%"x2'-4" PLATE USED IN NO. 5A. 2 PER RAIL.
- (1) %" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE ¹⁵/₁₆"x1¹/₄" LONGIT. SLOTTED HOLES IN PLATE NO. 10A. AT FIELD JOINTS AND ¹⁵/₁₆"x2¹/₄" MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 10A. PROVIDE ¹⁵/₁₆" DIA. ROUND HOLES IN TUBES NO. 5 AND NO. 5A.

GENERAL NOTES

1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M" WHICH INCLUDES ALL ITEMS SHOWN.

 RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY=50 KSI. ANCHOR PLATES AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.

3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL % TURN.

4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.

5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.

6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.

7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.

8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.

10. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).

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				BY				
NO.	DATE	R	REVISION					
		STATE OF V DEPARTMENT OF	-					
	S	TRUCTUF	59-320					
			PLANS PMF CK'D.	РТВ				
	TUBU	LAR STEE	SHEET 8	3 OF 8				
	RAILI	NG TYPE						

	AREA (S	F)		INCREME	NTAL VOL (CY)			CUMMULAT	IVE VOLU	ME (CY)	
					SALVAGED/						
		SALVAGED/			UNUSABLE		FILL	CUT		FILL	MASS
		UNUSABLE		CUT	PAV'T MATERIAL	FILL		1.00		(25%)	ORDINAT
STATION	CUT	PAV'T MATERIAL	FILL	NOTE 1	NOTE 2	NOTE 3	(25%)	NOTE 1	FILL	NOTE 4	NOTE 5
10+00	40	0	0	0	0	0	0	0	0	0	0
10+25	59	0	8	46	0	3	5	46	3	5	41
10+50	59	0	8	54	0	7	9	100	10	14	86
10+50	0	0	0	0	0	0	0	100	10	14	86
10+75	0	0	0	0	0	0	0	100	10	14	86
10+91	0	0	0	0	0	0	0	100	10	14	86
10+91	54	0	3	0	0	0	0	100	10	14	86
11+00	54	0	3	18	0	1	1	118	11	15	103
11+25	50	0	8	48	0	5	6	166	16	21	145
11+50	42	0	0	44	0	4	4	210	20	25	185
		COLUMN SU	JBTOTALS :	= 210	0	20	25				

EARTHWORK-CENTER ROAD

EARTHWORK 'A'-LINE (CHANNEL REALIGNMENT)

	AREA (SI	F)		INCREME	NTAL VOL (CY)			CUMMULAT	IVE VOLU	ME (CY)	
					SALVAGED/						
		SALVAGED/			UNUSABLE		FILL	CUT		FILL	MASS
		UNUSABLE		CUT	PAV'T MATERIAL	FILL		1.00		(25%)	ORDINATE
STATION	CUT	PAV'T MATERIAL	FILL	NOTE 1	NOTE 2	NOTE 3	(25%)	NOTE 1	FILL	NOTE 4	NOTE 5
49'A'+75	0	0	0	0	0	0	0	0	0	0	0
50'A'+00	17	0	0	8	0	0	0	8	0	0	8
51'A'+00	56	0	7	135	0	14	18	143	14	18	125
51'A'+45	0	0	0	47	0	6	7	190	20	25	165
		COLUMN SU	JBTOTALS =	190	0	20	25				
			MAINLINE	210	0	20	25	210	20	25	185
		*CHANNEL RE	ALIGNMENT	190	0	20	25	190	20	25	165
			TOTAL	400	0	40	50	400	40	50	350

NOTE: WASTE EXCESS CHANNEL REALIGNMENT MATERIAL. DO NOT USE EXCESS EXCAVATED MATERIAL FROM CHANNEL REALIGNMENT ('A'-LINE) ACTIVITIES IN ROADWAY RECONSTRUCTION APPROACH CONSTRUCTION.

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - FILL (25%)	FILL 25%: (UNEXPANDED FILL - (ROCK * ROCK FACTOR))*1.25
5 - MASS ORDINATE	(CUT - FILL (25%))

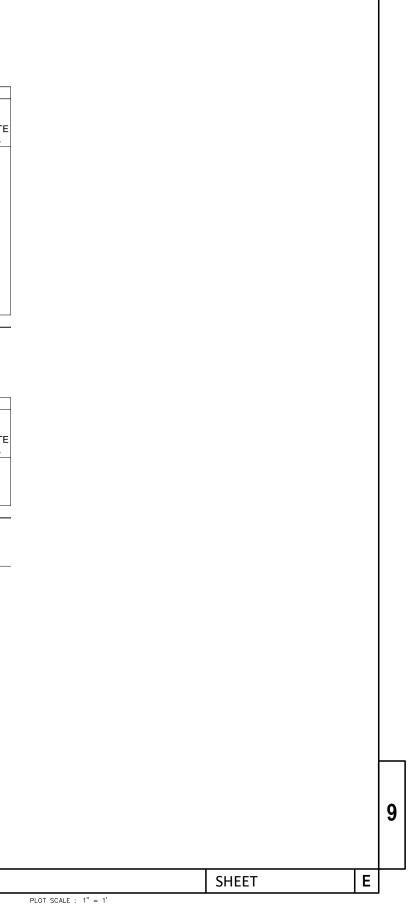
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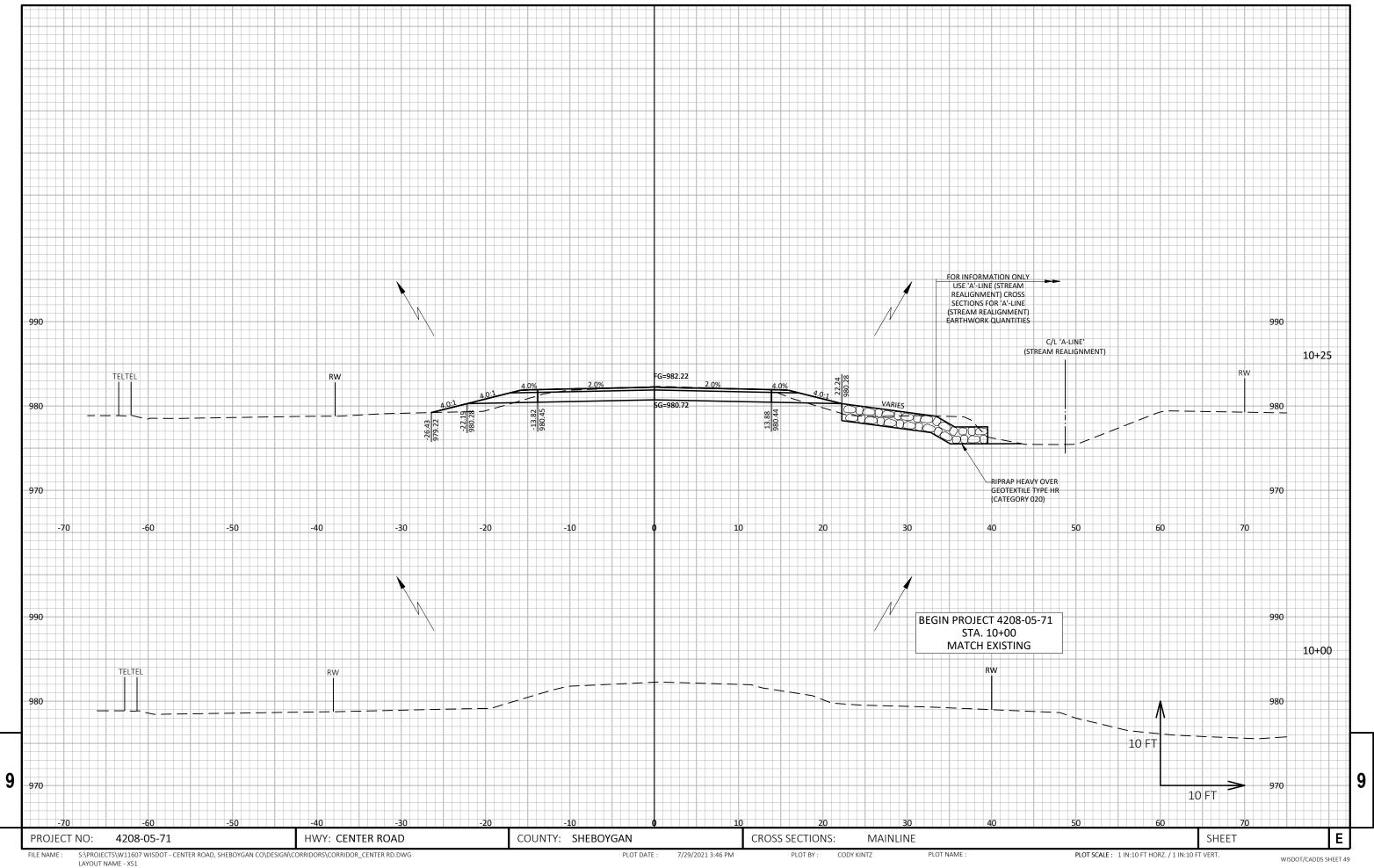
PROJECT NO: 4208-05-71

HWY: CENTER ROAD

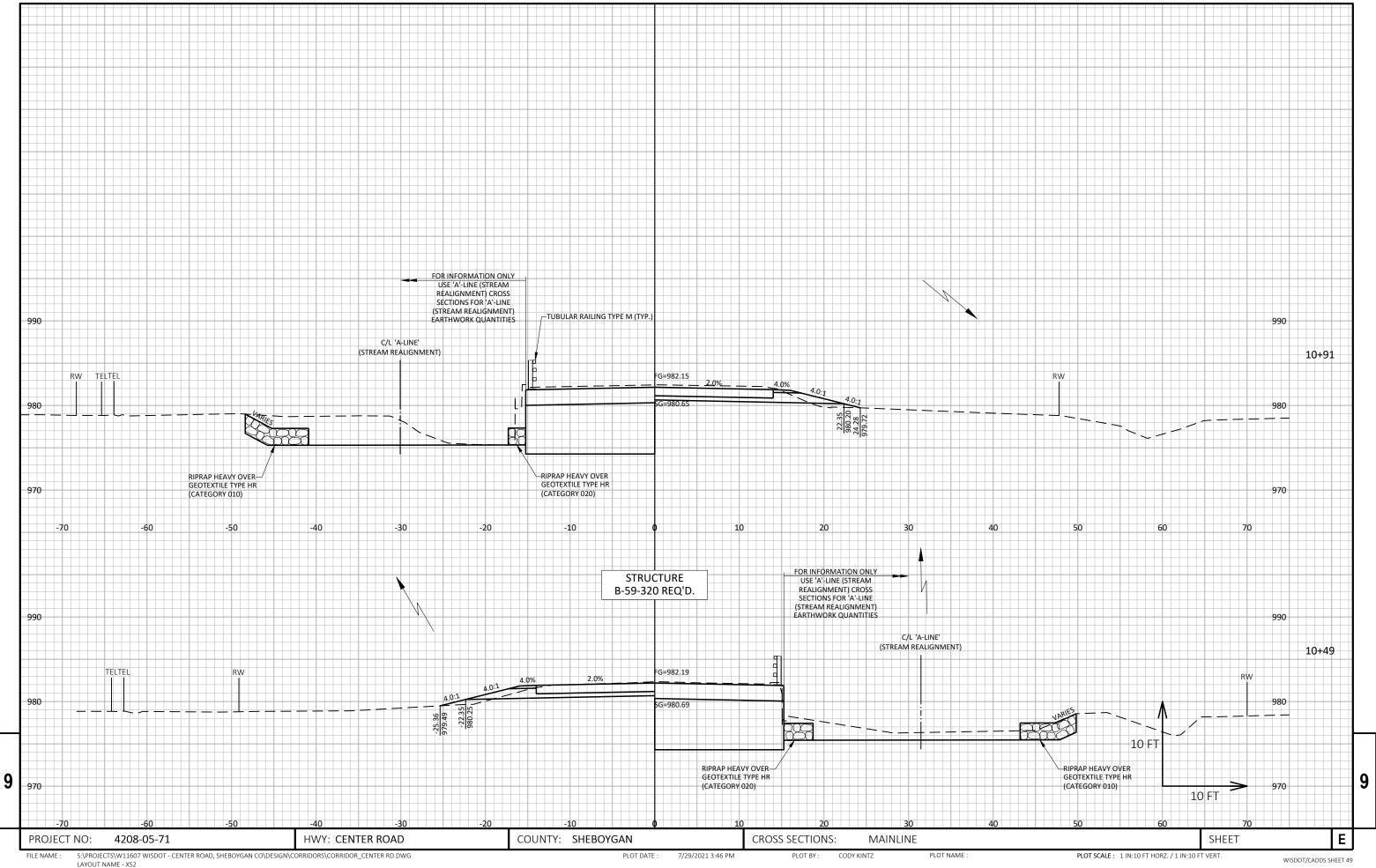
COUNTY: SHEBOYGAN

GAN EARTHWORK

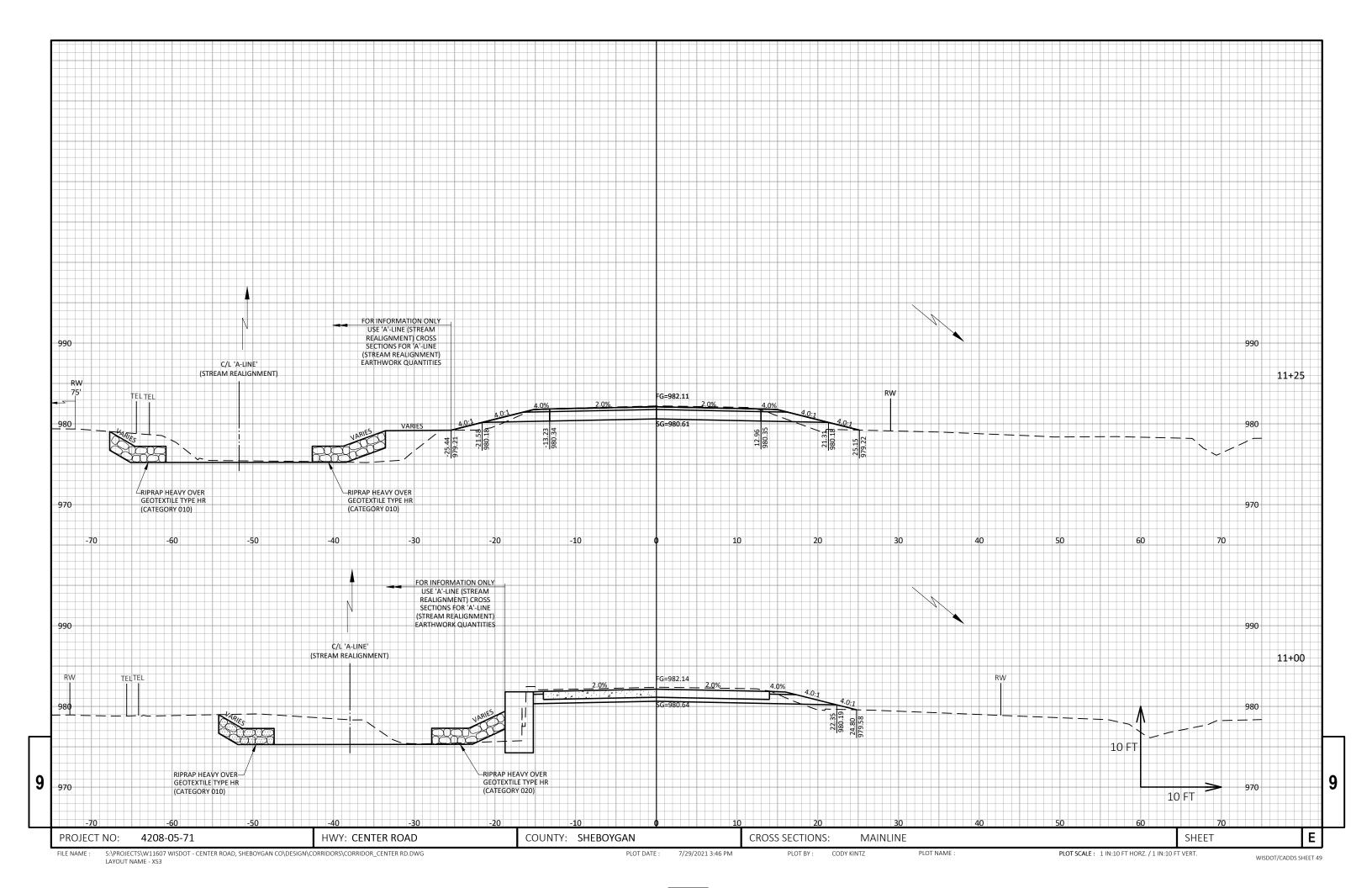


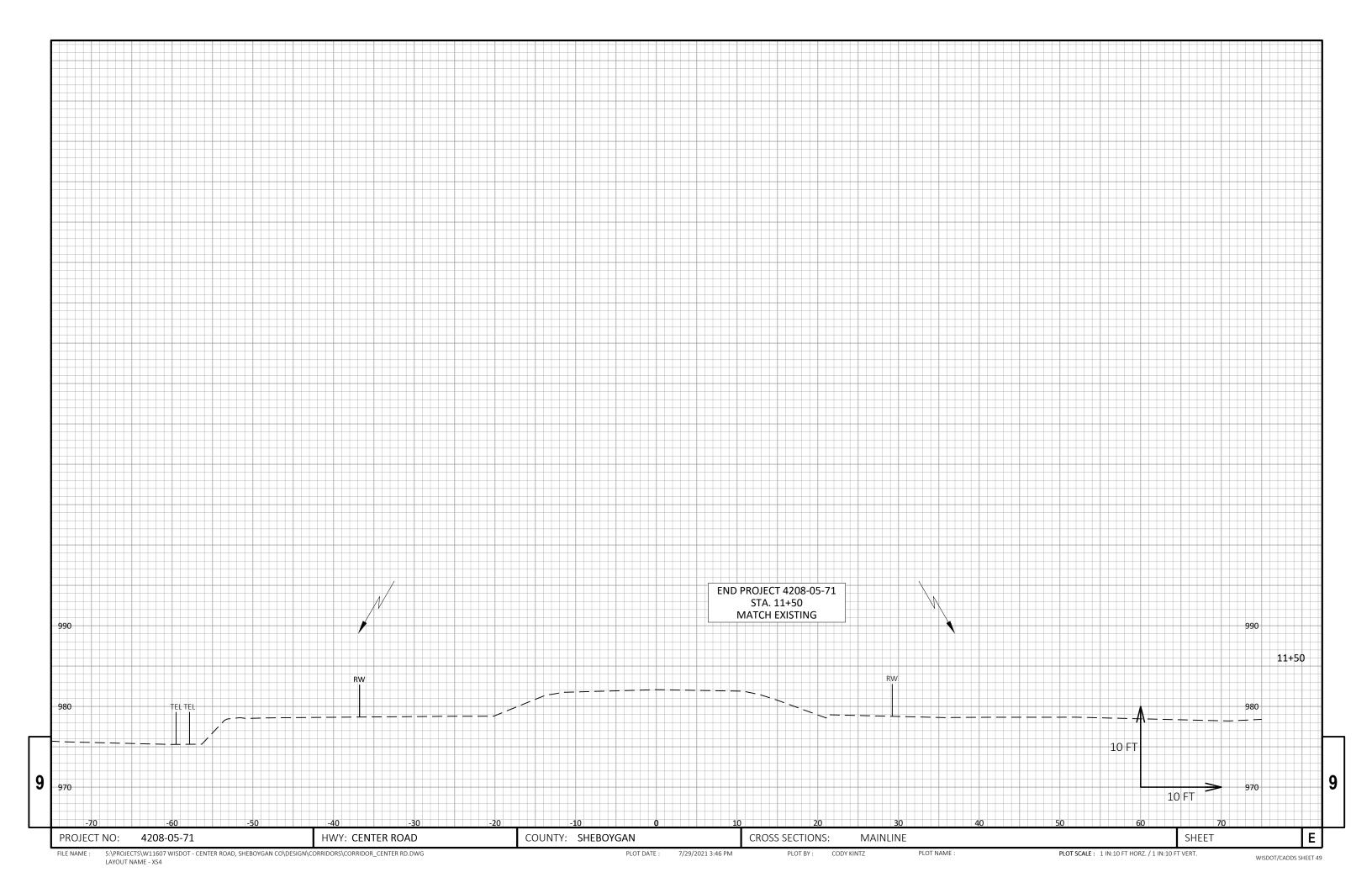


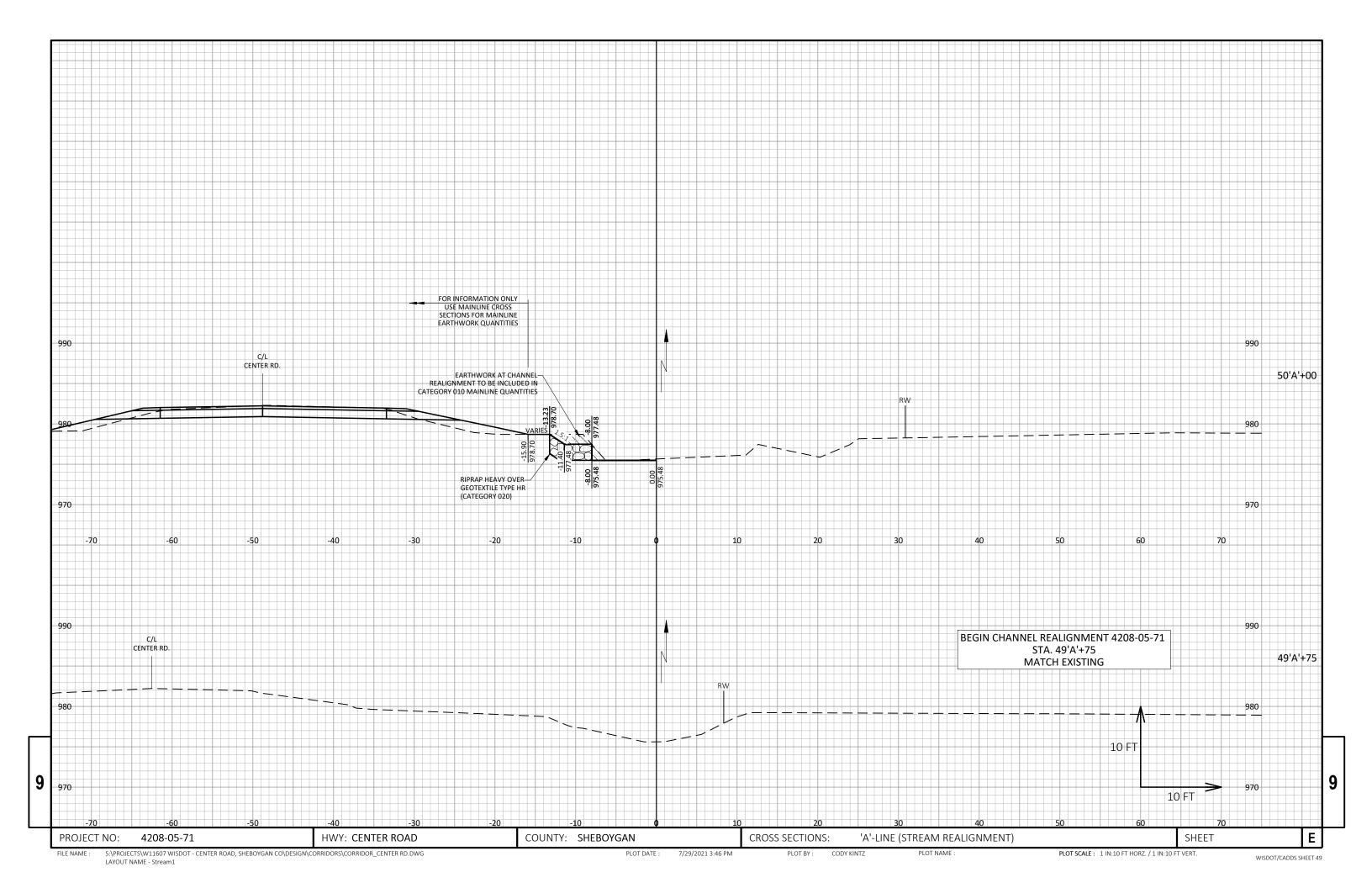
WISDOT/CADDS SHEET 49

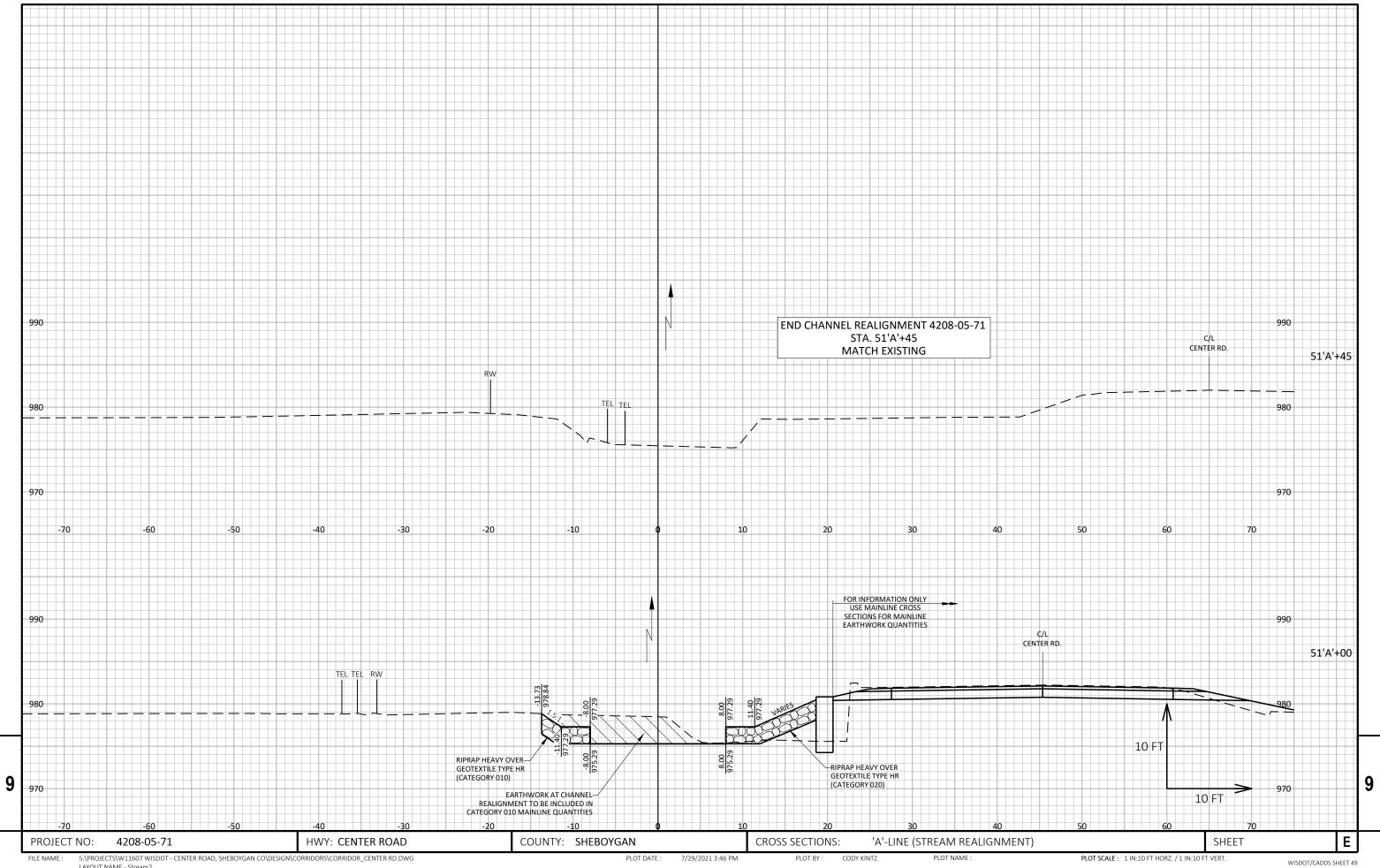


WISDOT/CADDS SHEET 49



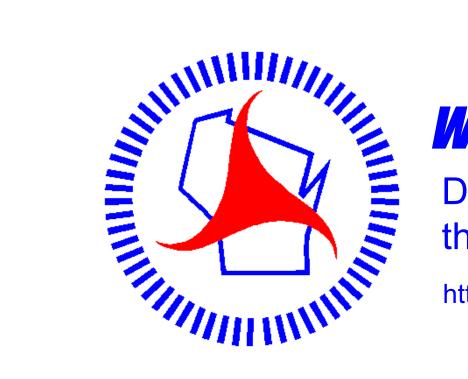






LAYOUT NAME - Stream2

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

