MAD	APRIL 2024									
	ORDER OF S	HEETS					ST	ATE OF W	ISCONS	SIN
PRO. WITH:	Section No.	1	Title							
PROJECT WITH: N/A	Section No.	2	Typical Sections and Details			DED			δυνς	PORTATION
	Section No.	3	Estimate of Quantities							
- <u>-</u>	Section No.	3	Miscellaneous Quantities							
D:	Section No.	4	Right of Way Plat				PLAN	OF PROPOSED		ENT
	Section No.	5	Plan and Profile							
	Section No.	6	Standard Detail Drawings							
6	Section No.	7	Sign Plates					NONTT	VOW	
Ó	Section No.	8	Structure Plans						NUVV/	ALD ROAD
4	Section No.	9	Computer Earthwork Data					•		
Ō	Section No.	9	Cross Sections					FOX RIVER BRIDG	E, B-11-0181	
6040-00-75	TOTAL SHEE	TS =	46					LOC S	TR	
-7							C	OLUMBIA	COUNTY	(
J	\int	- Ph	A				C	STATE PROJECT	NUMBER]
		-45						6040-00)-75	STRUCTURE B-
	⋛┽┵			N		10-E 11-E		CTON		
				L.			TOWN OF KING		R-11-E R-12-E	TOWN OF MANCHEST
	च्यू]	14			BEGIN PROJECT	1	GREEN LAKE CO			GREEN LAKE COUNTY
		ረተገ	{		STA. 11+25	Ber Onwr			34	GRAND RIVER RD
		┝┷╼╁			Y = 426,974.40 X = 623.202.84		₽FFF	Spring L.	5	Manchester
		万나			X - 025,202.84			FF FF	King	ton
		TL	╶┢╼┭┸┯┹┯┸┪					STON	NIIIS	
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TOWN OF SCOTT

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DESIGN DES	IGNATIO	N	6040-00-75
A.A.D.T. A.A.D.T. D.H.V. D.D. T. DESIGN SPEED	(2024) (2044)	= = = =	60/40 10% (ASSUMED) 25 M.P.H.
ESALS		=	11,000



PLAN		
CORPORATE LIMITS		<u>///////</u>
PROPERTY LINE		
LOT LINE LIMITED HIGHWAY EASEMEN EXISTING RIGHT OF WAY		L
PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE	-	
EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)		
COMBUSTIBLE FLUIDS		

FILE NAME : S:\PROJECTS\W11642 WISDOT - KOWALD ROAD BRIDGE B-11-0181 COLUMBIA CO\SHEETSPLAN\W11642 TITLE SHEET.DW



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LAYOUT

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), COLUMBIA COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCE ARE THE SAME AS GROUND DISTANCES

E. Friesla

FRIESLAND

STRUCTURE B-11-0181

LAKE COUN

GREEN

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T-13-N

COUNTY

COLUMBI

TOWN OF MANCHESTER

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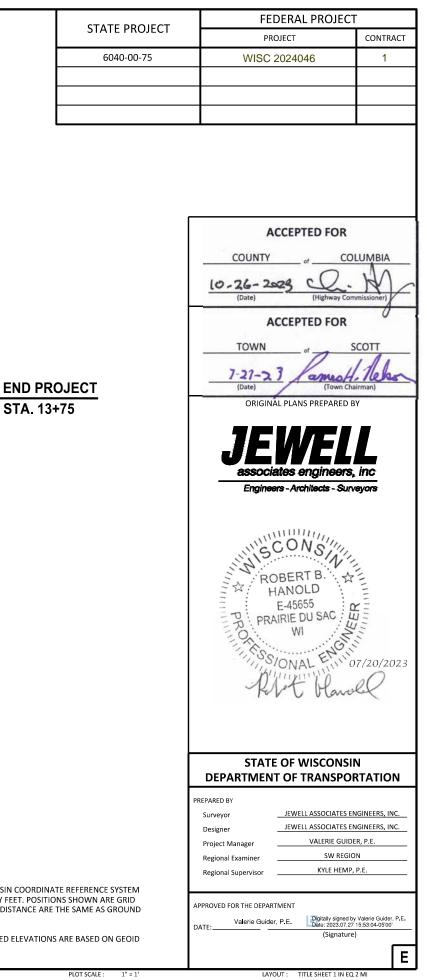
ELEVATION ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID (18).

COUNTY:

CONVENTIONAL SYMBOLS

GAS WATER WOODED OR SHRUB AREA TELEPHONE POLE

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



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 MULCHED 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

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 $2\frac{1}{4}$ -INCH LOWER LAYER AND A $1\frac{3}{4}$ -INCH UPPER LAYER.

APPLY TACK COAT AT A RATE OF 0.05 GAL/SY BETWEEN LAYERS OF ASPHALTIC SURFACE.

ADJUST DITCH 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

2

WETLANDS ARE PRESENT IN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOT OPERATE EQUIPMENT OR STOCKPILE MATERIALS BEYOND THE EXISTING STREAM BANK FROM STA. 11+25 - 12+84, RT; STA 11+44 -11+96, LT; STA. 12+02 - 13+15, RT; STA. 12+14 - 13+12, LT.

CONTACTS	6
COLUMBIA COUNTY HIGHWAY DEPARTMENT:	DESIGN CONSULTANT:

HIGHWAY DEPARTMENT COMMISSIONER	
38 W OLD HIGHWAY 16	
VYOCENA, WI 53969	
ATTN: CHRIS HARDY, P.E.	
H: (608) 429-2136	
MAIL: chris.hardy@co.columbia.wi.us	

TOWN OF SCOTT-TOWN OF SCOTT CHAIRPERSON N8101 HWY 44 PARDEEVILLE, WI 53954 ATTN: JAMES NELSON PH: (608) 429-3703

UTILITIES

ELECTRICITY ADAMS-COLUMBIA ELECTRIC COOPERATIVE ATTN: SHAWN PIETRZAK 401 E. LAKE ST. / P.O. Box 70 FRIENDSHIP, WI 53934 OFFICE: (800) 831-8629 EXT. 323 EMAIL: spietrzak@acecwi.com

COMMUNICATION BRIGHTSPEED ATTN: SCOTT HEINZELMAN 144 N. PEARL ST. BERLIN, WI 54923 OFFICE: (608) 716-5964 CELL: (920) 757-4802 EMAIL: scott.heinzelman@brightspeed.com EMAIL: relocations@brightspeed.com

JEWELL ASSOCIATES ENGINEERS, INC.

EMAIL: robert.hanold@jewellassoc.com

STATE OF WISCONSIN DNR SOUTH CENTRAL REGION HQ

EMAIL: eric.heggelund@wisconsin.gov

3911 FISH HATCHERY ROAD

FITCHBURG, WI 53711

PH: (608) 228-7927

ATTN: ERIC HEGGELUND

560 SUNRISE DRIVE SPRING GREEN, WI 53588 ATTN: ROBERT HANOLD, P.E. PH: (608) 459-6027

CELL: (608) 341-8159

WDNR LIAISON:

		LIST C
ABUT	Abutment	INV
AC	Acre	IP
AGG	Aggregate	IRS
AH	Ahead	TL
<	Angle	JCT
ASPH	Asphaltic	LHF
AVG	Average	L
ADT	Average Daily Traffic	LIN F
BAD	Base Aggregate Dense	or LF
ВК	Back	LC
BF	Back Face	MH
BM	Bench Mark	MB
BR	Bridge	MLo
C or C/L	Center Line	N
СС	Center to Center	Y
C.E.	Commercial Entrance	OD
СТН	County Trunk Highway	PLE
CR	Creek	PT
CR	Crushed	PC
CY or CU YD	Cubic Yard	PI
СР	Culvert Pipe	PRC
C & G	Curb and Gutter	FIC
D	Degree of Curve	PT
DHV	Design Hour Volume	POC
DIA	Diameter	POT
E	East	PVC
Х	East Grid Coordinate	PCC
ELEC	Electric (al)	
EL or ELEV	Elevation	LB
ESALS	Equivalent Single Axle	PSI
	Loads	P.E.
EBS	Excavation Below	R RR
FF	Subgrade Face to Face	R
F.E.	Field Entrance	RL o
F	Fill	RP
FG	Finished Grade	RCCI
FL or F/L	Flow Line	
FT	Foot	REQ
FTG	Footing	RES
GN	Grid North	RW
HT	Height	RT
CWT	Hundredweight	RHF
HYD	Hydrant	R/W
INL	Inlet	RD
ID	Inside Diameter	R

		HYDROLOGIC SOIL GROUP										
		/	4		E	3		(2		[D
	SLOPE	RANG	E (PERCENT)	SLOPE	RANG	E (PERCENT)	SLOPE	RANG	E (PERCENT)	SLOPE	RANG	GE (PE
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&
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	
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	
SIDE SLOPE TURF			.25 .32			.27 .34			.28 .36			
PAVEMENT												
ASPHALT						.709						
CONCRETE						.809						
BRICK						.708						
DRIVES, WALKS						.758						
ROOFS						.759						
GRAVEL ROADS, S						.406	50					
TOTAL PROJECT AREA= 0.32 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.24 ACRES												

PROJECT NO: 6040-00-75

COUNTY: COLUMBIA

Dial [31] or (800) 242-8511

www.DiggersHotline.com

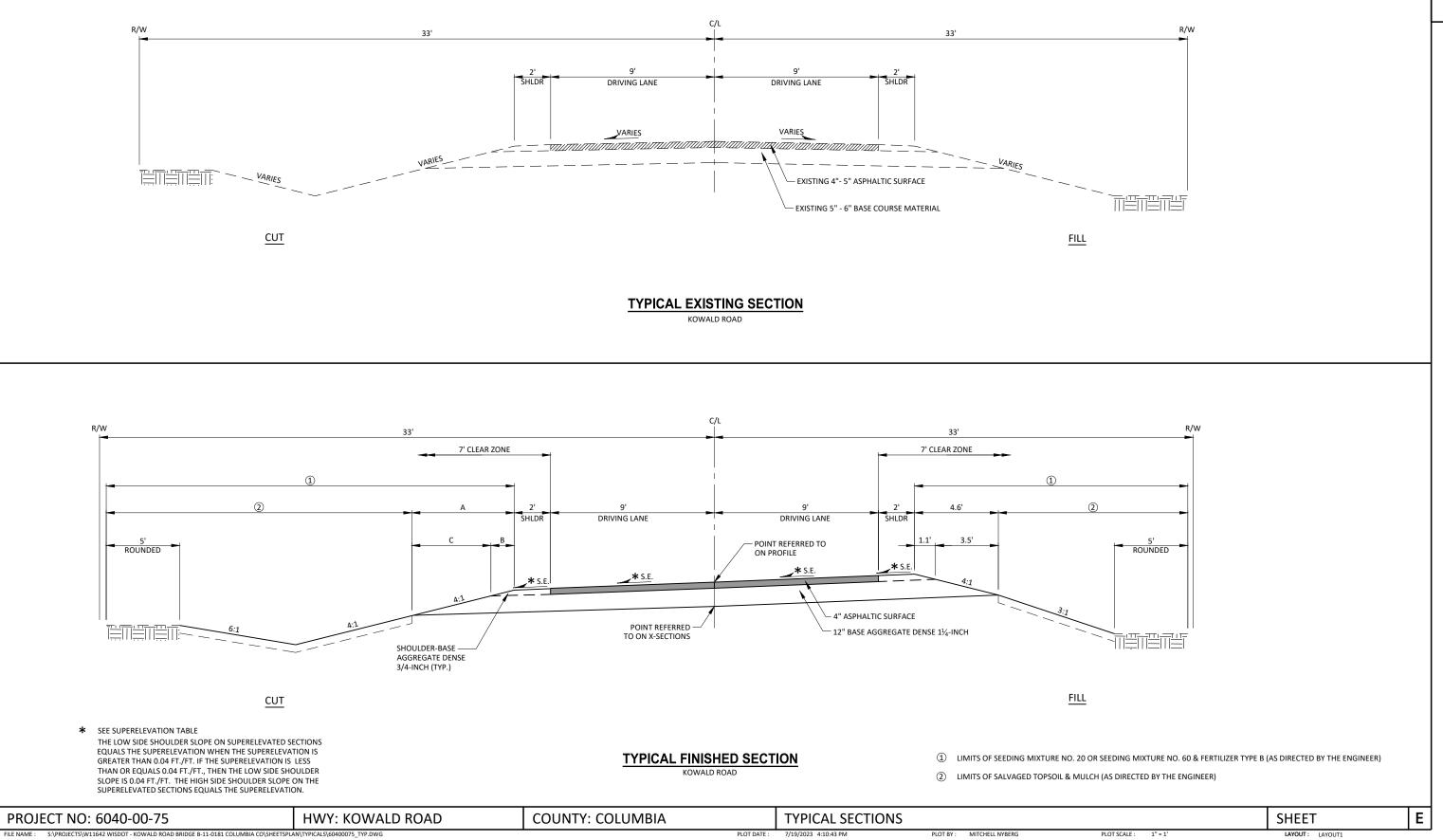
PLOT BY : MITCHELL NYBERG

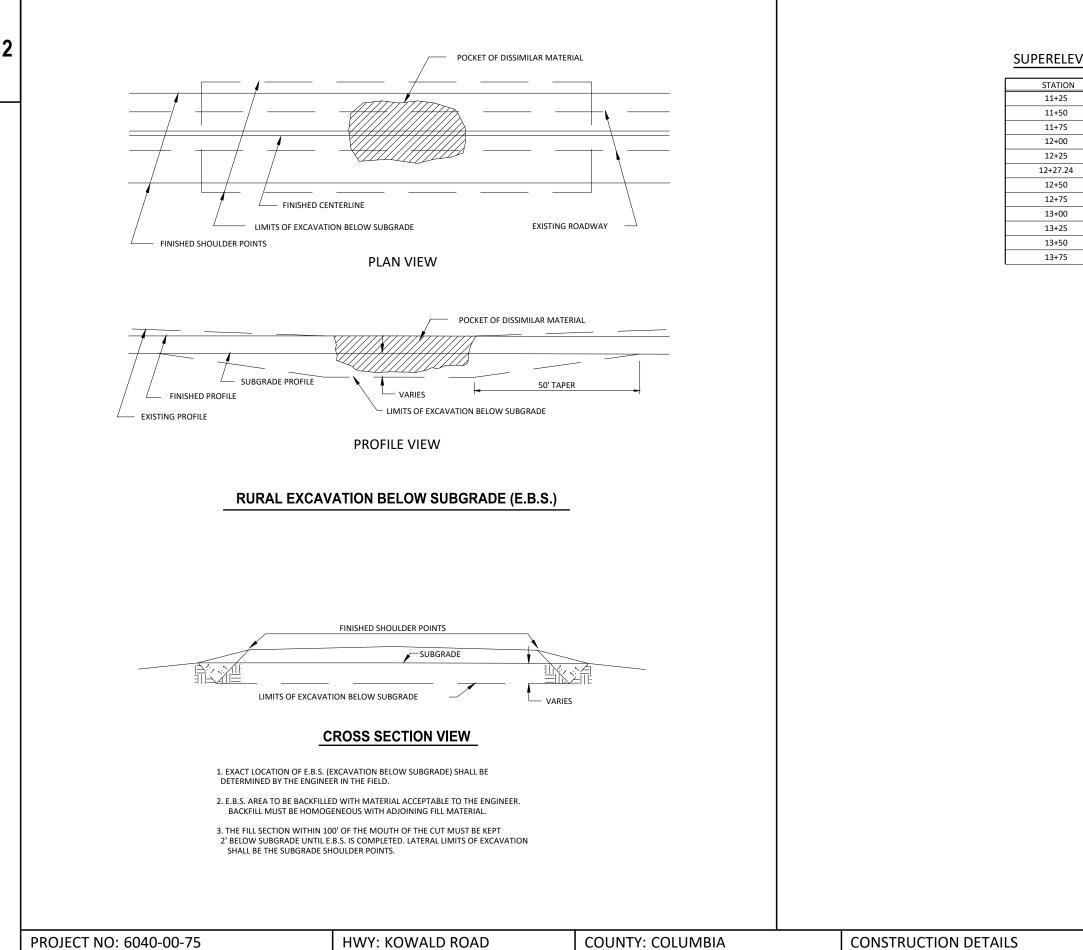


OF STANDARD ABBREVIATIONS

V	Invert	RDWY	Roadway
	Iron Pipe or Pin	SALV	Salvaged
5	Iron Rod Set	SAN S	Sanitary Sewer
	Joint	SEC	Section
Т	Junction	SHLDR	Shoulder
F	Left-Hand Forward	SHR	Shrinkage
	Length of Curve	SW	Sidewalk
I FT	Linear Foot	S	South
LF		SQ	Square
	Long Chord of Curve	SF or SQ FT	Square Feet
H	Manhole	SY or SQ YD	Square Yard
3	Mailbox	STD	Standard
L or M/L	Match Line	SDD	Standard Detail Drawings
	North	STH	State Trunk Highways
	North Grid Coordinate	STA	Station
)	Outside Diameter	SS	Storm Sewer
E	Permanent Limited	SG	Subgrade
	Easement Point	SE	Superelevation
	Point of Curvature	SL or S/L	Survey Line
	Point of Intersection	SV	Septic Vent
с	Point of Reverse	T	Tangent
C	Curvature	TEL	Telephone
	Point of Tangency	TEMP	Temporary
C	Point On Curve	TI	Temporary Interest
T	Point on Tangent	TLE	Temporary Limited
Ċ	Polyvinyl Chloride	ILL	Easement
c	Portland Cement	t	Ton
	Concrete	T or TN	Town
	Pound	TRANS	Transition
I	Pounds Per Square Inch	TL or T/L	Transit Line
	Private Entrance	Т	Trucks (percent of)
	Radius	ТҮР	Typical
	Railroad Range	UNCL	Unclassified
or R/L	Reference Line	UG	Underground Cable
ULAL	Reference Point	USH	United States Highway
CD	Reinforced Concrete	VAR	Variable
CP	Culvert Pipe	V	Velocity or Design Speed
QD	Required	VERT	Vertical
S	Residence or Residential	VC	Vertical Curve
v	Retaining Wall	VOL	Volume
	Right	WM	Water Main
IF	Right-Hand Forward	WV	
W	Right-of-Way	WV	Water Valve West
vv	0 /	WB	Westbound
)	Road	YD	Yard
	River	טז	Talu

REVIATIONS	SHEET	Ε	
PLOT SCALE : 1" = 1'	LAYOUT : LAYOUT1		





FILE NAME : S:\PROJECTS\W11642 WISDOT - KOWALD ROAD BRIDGE B-11-0181 COLUMBIA CO\SHEETSPLAN\DETAILS\60400075_CONSTRUCTION DETAILS.DWG

PLOT BY : MITCHELL NYBERG

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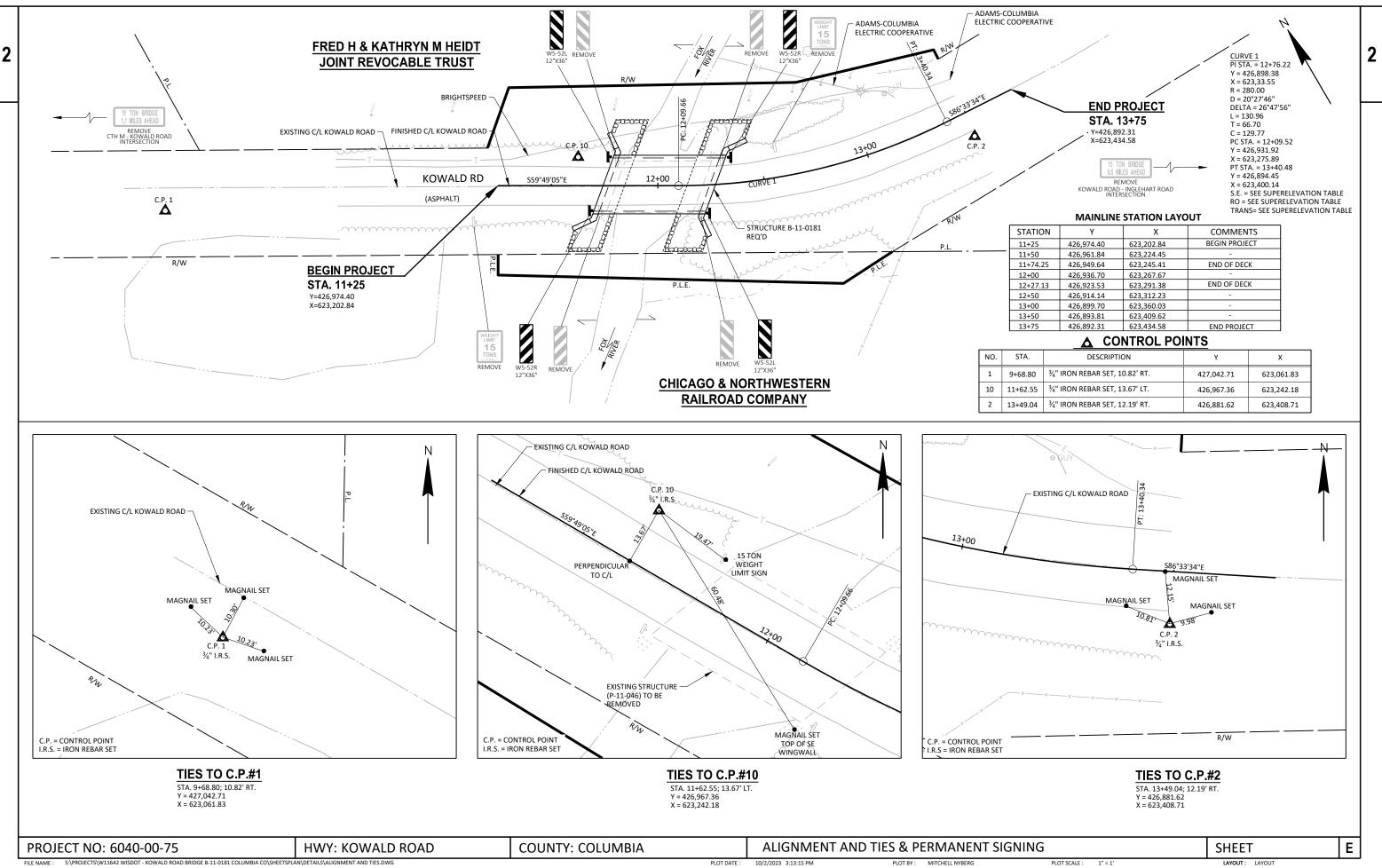
PLOT DATE :

SUPERELEVATION MAINLINE - KOWALD ROAD

LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
MATCH EXISTING	MATCH			
2.0	2.0	5.63	1.28	4.35
2.0	2.0	5.63	1.28	4.35
2.0	2.0			
2.0	2.0			
2.0	2.0			
2.0	0.7	5.63	1.28	4.35
2.0	0.8	5.63	1.28	4.35
2.3	2.3	5.71	1.31	4.40
3.8	2.7	6.25	1.54	4.71
5.2	1.2	6.73	1.69	5.04
MATCH EXISTING	MATCH			

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Estimate Of Quantities

201.0205 Grubbing STA 3.000 3.000 203.0260 Removing Structure Over Waterway Minimal Debris (structure) 01. P-11-46 EACH 1.000 1.000 206.0101 Excavation for Structures Bridges (structure) 01. B-11-0181 EACH 1.000 1.000 206.0101 Excavation for Structures Bridges (structure) 01. B-11-0181 EACH 1.000 1.000 213.0100 Back Margengeb Denses 3/4-Inch TON 500.000 500.000 305.0110 Base Aggregate Dense 3/1-Inch TON 170.000 470.000 455.0105 Tack Coat GAL 25.000 220.000 502.2010 Concrete Masonry Bridges CY 220.000 200.000 502.2010 Concrete Masonry Bridges CY 201.000 201.000 502.2010 Concrete Masonry Bridges CY 200.000 245.6000 245.6000 505.0600 Bar Steel Reinforcement HS Structures LB 24.560.000 45.800.000 54.500.00 54.500.00 54.500.00 54.500.00 54.500.00 54.500.00 54.500.00						6040-00-75	
203 0260 Removing Structure Over Waterway Minimal Debris (structure) 01. P-11-46 EACH 1.000 1.000 205 0100 Excavation for Structures Bridges (structure) 01. B-11-0181 EACH 1.000 200.000 208 1001 Borcom CY 220.000 220.000 210 1500 Backfill Structure Type A TON 500.000 200.000 213 1010 Finishing Roadway (project) 01. 6040-00-75 EACH 1.000 1.000 305 0110 Base Aggregate Denes 3/4-inch TON 470.000 470.000 305 0110 Base Aggregate Denes 3/4-inch TON 470.000 240.000 502 1000 Concrete Masony Bridges CY 240.000 240.000 505 0400 Bar Steel Reinforcement HS Structures LB 24,560.000 24,560.000 513 4061 Railing Tubuitar Type M LF 450.000 24,560.000 516 0500 Ruberized Membrane Waterprofing SY 12.000 120.000 516 0500 Ruberized Membrane Waterprofing SY 12.000.00 150.000 618 0100 <th>Line</th> <th>Item</th> <th>Item Description</th> <th>Unit</th> <th>Total</th> <th>Qty</th> <th></th>	Line	Item	Item Description	Unit	Total	Qty	
205 0100 Excavation Common CY 2000.000 2000.000 205 1001 Excavation for Structures Bridges (structure) 01. B-11-0181 CY 220.000 220.000 210 1000 Backfill Structure Type A TON 500.000 500.000 213 0100 Base Aggregate Dense 3/4-Inch TON 30.000 30.000 305 0112 Base Aggregate Dense 3/4-Inch TON 470.000 470.000 455 0056 Tack Coat GAL 25.000 25.000 505 2000 Protoctive Surface Treatment SY 24.000 24.000 505 0400 Bar Steel Reinforcement HS Cated Structures LB 4.500.000 24.560.000 505 0400 Bar Steel Reinforcement HS Cated Structures LB 24.560.000 19.000 513 4061 Railing Tubular Type M LF 150.000 19.000 19.000 516 0401 Pine Underdrain Wapped 6-Inch LF 150.000 150.000 618 1000 Mahutenance MGAL 8.000 8.000 627 0200 Mulching SY<	002	201.0205	Grubbing	STA	3.000	3.000	
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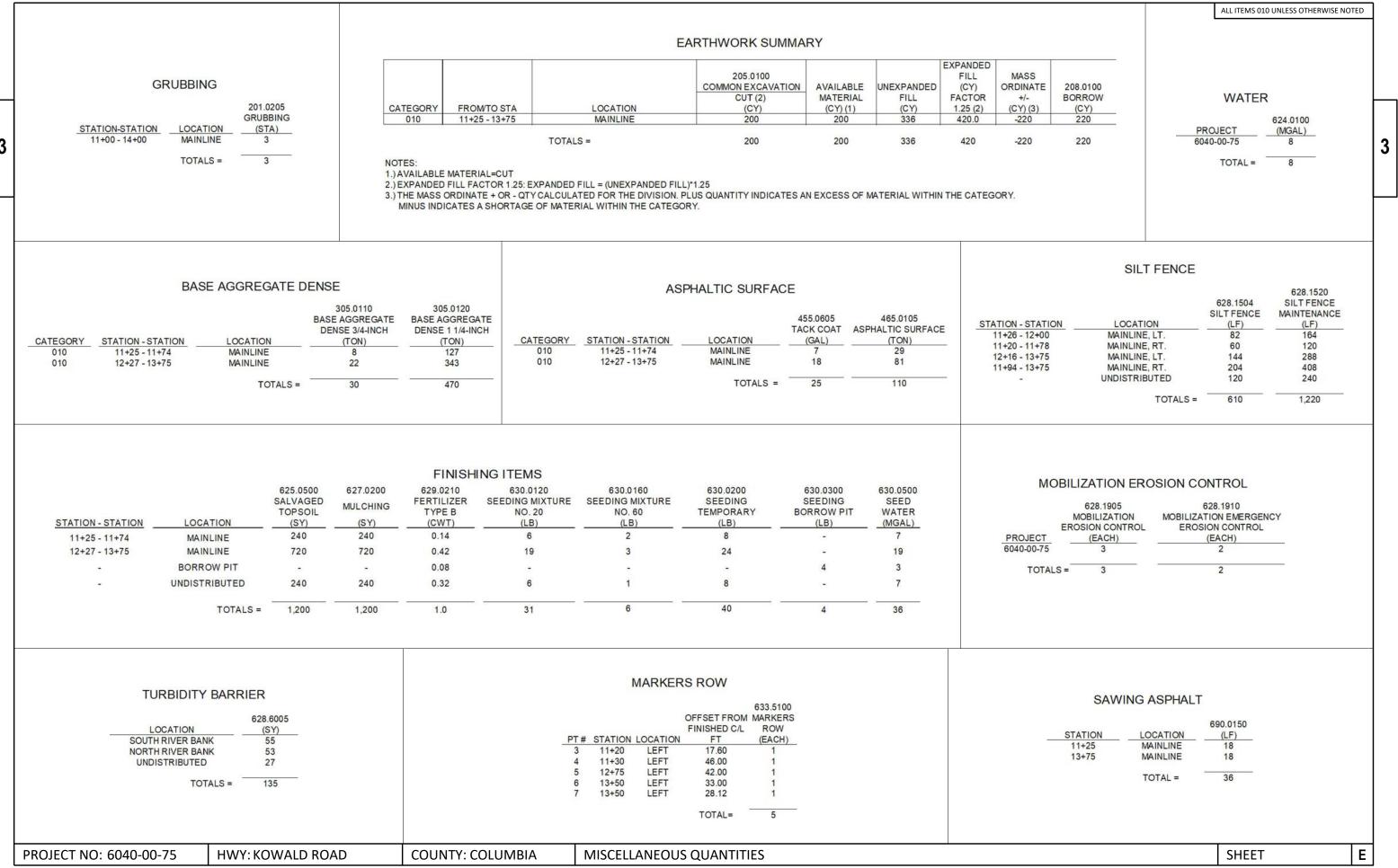
Page 1

Estimate Of Quantities

					6040-00-75
Line	Item	Item Description	Unit	Total	Qty
0102	650.6501	Construction Staking Structure Layout (structure) 01. B-11-0181	EACH	1.000	1.000
0104	650.9911	Construction Staking Supplemental Control (project) 01. 6040-00-75	EACH	1.000	1.000
0106	650.9920	Construction Staking Slope Stakes	LF	197.000	197.000
0108	690.0150	Sawing Asphalt	LF	36.000	36.000
0110	715.0502	Incentive Strength Concrete Structures	DOL	1,206.000	1,206.000
0112	999.2005.S	Maintaining Bird Deterrent System (station) 01. 12+00	EACH	1.000	1.000
0114	SPV.0090	Special 01. Flashing Stainless Steel	LF	95.000	95.000

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Page 2



PLOT DATE : 11/2/2023 PLOT TIME : 12:06:46 PM

PERMANENT SIGNING

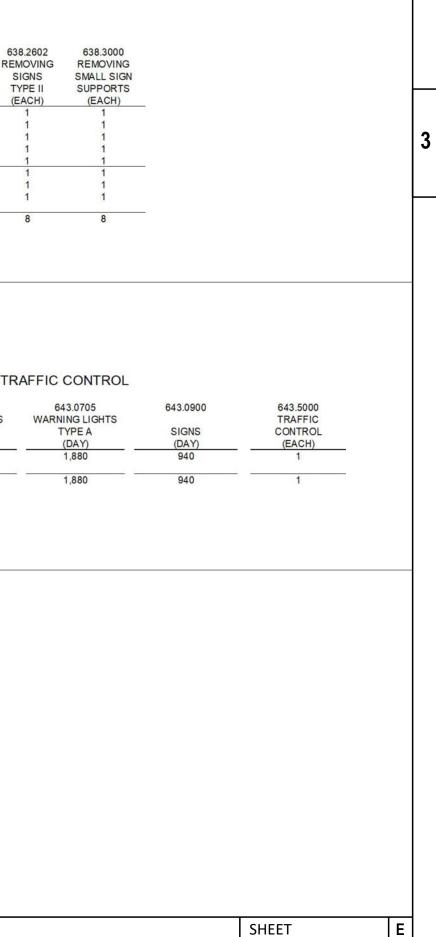
APPROX.	-8		SIGN		ORDER	SIGN	634.0612 POSTS WOOD 4X6- INCH X 12-FT	637.2230 SIGNS TYPE II REFLECTIVE F	638.260 REMOVIN SIGNS TYPE II
STATION	POSITION	LOCATION	CODE	SIGN DESCRIPTION	LINES	SIZE	(EACH)	(SF)	(EACH)
03 - 0	RIGHT	AT CTH H	R12-55	XX TON BRDGE XX MILES AHEAD	15 TON / 1.1 MILES	48X18	·		1
11+14	LEFT	MAINLINE	R12-1	BRIDGE WEIGHT LIMIT	15 TONS	24X30	-		1
11+69	LEFT	MAINLINE	W5-52R	BRIDGE HASH MARKS		12X36	1	3.00	1
11+78	RIGHT	MAINLINE	W5-52L	BRIDGE HASH MARKS		12X36	1	3.00	1
12+22	RIGHT	MAINLINE	W5-52L	BRIDGE HASH MARKS		12X36	1	3.00	1
12+34	RIGHT	MAINLINE	W5-52R	BRIDGE HASH MARKS		12X36	1	3.00	1
12+56	LEFT	MAINLINE	R12-1	BRIDGE WEIGHT LIMIT	15 TONS	24X30	_		1
-	RIGHT	AT INGLEHART RD	R12-55	XX TON BRDGE XX MILES AHEAD	15 TON / 0.5 MILES	48X18	—	 .	1
						TOTALS =	4	12.00	8

TOTALS = 4 12.00

				KING	FION STAI	CONSTRUCT		
TRAFFIC		650.9920	650.9911 SUPPLEMENTAL	*650.6501				
643.0420 BARRICADES WAR TYPE III		SLOPES STAKES (L.F.)	CONTROL (6040-00-75) (EACH)	STRUCTURE LAYOUT (B-11-0181) (EACH)	650.5000 BASE (L.F.)	650.4500 SUBGRADE (L.F.)	LOCATION	STATION -STATION
	LOCATION	49	(EACH)	(EACH)	49	49	MAINLINE	11+25 - 11+74
1,210	PROJECT	148	1	-	148	148	MAINLINE	12+27 - 13+75
07410		-	1	1	-	-	PROJECT	6040-00-75
OTALS = 1,210	TOTALS =	197	1	1	197	197	TOTAL =	
							ATEGORY 020	*0

PROJECT NO: 6040-00-75 HWY: KOWALD ROAD COUNTY: COLUMBIA MISCELLANEOUS QUANTITIES				
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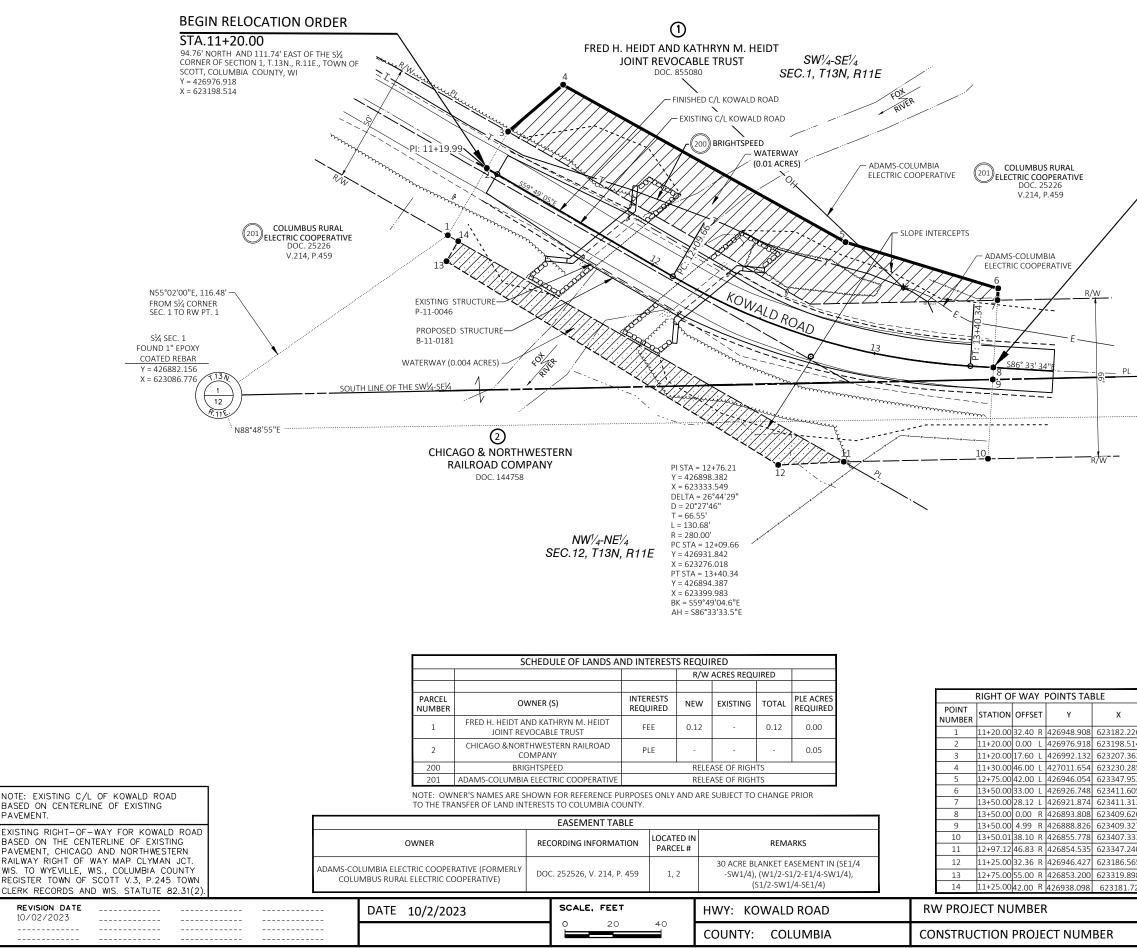
3



ALL ITEMS 010 UNLESS OTHERWISE NOTED

CONVE	NTIONAL	ABBREVIATIONS		CONVENTIONAL UTILITY SYMBOL	S				R/	W PROJECT NUMBER	NUMBER
ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI	WATER		•				6040-00-05	
ACRES	AC	PROPERTY LINE	PL	TELEPHONE	-				FE	DERAL PROJECT NUMBER	4.01
AHEAD ALUMINUM	AH ALUM	RECORDED AS REEL / IMAGE	(100') R/I	OVERHEAD TRANSMISSION LINES							
AND OTHERS	ET AL	REFERENCE LINE	R/L	CABLE TELEVISION						PLAT OF RIGHT-OF-WAY	
BACK BLOCK	BK BLK	REMAINING RESTRICTIVE DEVELOPMENT	REM RDE	SANITARY SEWER	-					TOWN OF SCOTT, KOW	
CENTERLINE	C/L	EASEMENT	1122	STORM SEWER SS	-					(FOX RIVER BRIDGE, B-1	11-0181)
CERTIFIED SURVEY MAP CONCRETE	CSM CONC	RIGHT RIGHT OF WAY	RT R/W						KOW	LD ROAD	
COUNTY	CO	SECTION	SEC								COLUMBIA C
COUNTY TRUNK HIGHWAY DISTANCE	CTH DIST	SEPTIC VENT SQUARE FEET	SEPV SF						cc	NSTRUCTION PROJECT NUM 6040-00-75	IBER
CORNER	COR	STATE TRUNK HIGHWAY	STH		ψ Ψ		щIщ			8040-00-75	
DOCUMENT NUMBER EASEMENT	DOC EASE	STATION TELEPHONE PEDESTAL	STA TP			TOWN OF KINGSTON	11 17	TOWN OF MANCHESTER	END RELOCA	ION ORDER	
EXISTING	EX	TEMPORARY LIMITED	TLE	BEGIN RELOCATION	URDER ""	GREEN LAKE COUNTY			STA.13+50.00		
GAS VALVE GRID NORTH	GV GN	EASEMENT TRANSPORTATION PROJECT	трр	STA. 11+20.00		Same S	pring L	Manchester) S' EAST OF THE S½ CORNER OF	
HIGHWAY EASEMENT	HE	PLAT		94.76' NORTH AND 111.74' EAST OF TH CORNER OF SECTION 1, T.13N., R.11E., T	SHA			met all all is show	SECTION 1, T.13N., R.11E.,	TOWN OF SCOTT, COLUMBIA	
IDENTIFICATION LAND CONTRACT	ID IC	UNITED STATES HIGHWAY VOLUME	USH	SCOTT, COLUMBIA COUNTY, WI	<u>g</u> E L	TTTTT	FF Kings	On	COUNTY, WI Y = 426893.808		
LEFT	LT		•	Y = 426976.918 X = 623198.514		KINGST(X = 623409.626		
MONUMENT NATIONAL GEODETIC SURVEY	MON NGS	CURVE DAT	l l						Ę		
NUMBER	NO		2 CH						INC		
OUTLOT	OL	LONG CHORD BEARING	28 28			Dalton	HH	NG LN	ដ		
PAGE POINT OF TANGENCY	Р РТ	RADIUS F DEGREE OF CURVE			OWN OWN	untain Cr H			AKE		
PERMANENT LIMITED	PLE	CENTRAL ANGLE	/DELTA				ST LN -GG	INT REFERENCE			
EASEMENT POINT OF BEGINNING	РОВ	LENGTH OF CURVE L TANGENT T			EE			YUNKER RD RD	EE		
POINT OF CURVATURE	PC	DIRECTION AHEAD DIRECTION BACK			1-14-11 RD		-HH/ 31/N		89		
POINT OF COMPOUND CURVE	PCC CONVEI	TIONAL SYMBOLS	-		T-13-N		1 For				
			R/W MONUMEN (TO BE SET)		6		WALP OF	1. Ferrit	<u></u>		
SECTION LINE QUARTER LINE		SECTION CORNER SYMBOL							-13-N		
SIXTEENTH LINE	<u> </u>	<u> </u>	NON-MONUME R/W POINT	NIED 8	9		SCHMIDT IRD				
NEW REFERENCE LINE	\wedge		FOUND IRON PIN (1-INCH UNLESS N				av are				
NEW R/W LINE		MONUMENT			z			SCHINDT RD			
EXISTING R/W OR HE LINE		GEODETIC SURVEY MONUMI SIXTEENTH CORNER MONUM			5 ≧	R al					
PROPERTY LINE	<u>P.L</u>			•	ARCELLO COUNTY FENSKE	5 8		E. Frieslas	<u>F</u>	·····	
LOT, TIE & OTHER MINOR LINES		SIGN • SIGN	SIGN	0125 \$ SIGN	Ř S Ľ	KOSS B RD	SCHARF RD	EF • 8	5		
SLOPE INTERCEPT			COMPENSABLE NO	N-COMPENSABLE	ž g				8		
CORPORATE LIMITS	////////	ELECTRIC POLE TELEPHONE POLE		<u>ь</u>	ÖZ	H H	<u> </u>		BIA	S Alama 19 M	Ann En Star
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)	W (TYPE)	PEDESTAL (LABEL TYPE)		ø X		6 d 1	DYNSTRA DR	Friesland	Σ Σ	associates er	
NEW R/W (FEE OR HE)		(TV, TEL, ELEC, ETC.)			ē ö	F	SANDERSON	Friesland	no	Engineers - Archi	itects - Surveyors
(HATCHING VARIES BY OWNER)		ACCESS RESTRICTED BY ACQU	SITION			CROWN RD RD			õ	560 SUNRIS	
TEMPORARY LIMITED EASEMENT AREA		NO ACCESS (BY STATUTORY A	JTHORITY)	********	reellon	£ (22)	3° ž ši			SPRING GREEN PHONE : 608	
EASEMENT AREA		ACCESS RESTRICTED (BY PREV	ous	<u>*****</u>		<u>щ 33</u>				FAX : 608.5	588.9322
(PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)	1.1.1.1.1.1.1.	PROJECT OR CONTROL)		AAAAAAAAAA	31	ARNI SCON	H 36			I HEREBY CERTIFY THAT	THIS PLAT WA
TRANSMISSION STRUCTURES	<u></u>	NO ACCESS (NEW HIGHWAY)				POD DOD	VAUGHN			MADE FOR TOWN OF SC AND IS CORRECT TO TH	OTT, WISCONSIN
_	IOVED I''L	PARCEL NUMBER (25)	UTILITY NUMBE	R (40)	5	TOWN OF SCOTT		TOWN OF RANDOLPH		KNOWLEDGE AND BELIEF	
					R-10-E R-11-E		11-1				<i>u.</i>
BRIDGE CULVER	r Jana I	PARALLEL OFFSETS	<u>+</u> ~	<u> </u>	de de		R-1. R-1.			COM	Milline .
NOTES:										1200 MM	S MAL
	TARE WISCONS	IN COORDINATE REFERENCE	YSTEM COORDINA	TES (WISCRS), COLUMBIA COUNTY. NAD83(2011).	IN U.S. SURVEY FEET. VALUES SHOWN	ARE GRID N					
				FES (WISCRS), COLUMBIA COUNTY, NAD83(2011), ID DISTANCES.		. A	LAYOUT			$ \int \frac{\partial f}{\partial t} dt $	\\$\$
			••	SS OTHERWISE NOTED, AND WILL BE PLACED PRICE		KE .				JEWELL	ト 厪. J
ALL RIGHT-OF-WAY LINES DEPIC DOCUMENTS, OR FROM CENTER	LINE OF EXISTIN	I-ACQUISITION AREAS ARE INT IG PAVEMENTS.	ENDED TO RE-ESTA	BLISH EXISTING RIGHT-OF-WAY LINES AS DETERM	INED FROM PREVIOUS PROJECTS, OTH	ER RECORDED SCA	LE 2 MI			S-1898	
RIGHT-OF-WAY BOUNDARIES AR	E DEFINED WIT	I COURSES OF THE PERIMETER	OF THE HIGHWAY	LANDS REFERENCED TO THE U.S. PUBLIC LAND SU	RVEY SYSTEM OR OTHER "SURVEYS" O	F PUBLIC	LENGTH OF CENTERLINE =				⊑,/// /≣
DIMENSIONING FOR THE NEW R	•		•				LENGIN OF CENTERLINE =				12-11
					ESSARY EQUIPMENT THEREON, THE RIG	GHT.OF				MILLIN AND IN	Yum
INGRESS AND EGRESS, AS LONG AUTHORITIES MAY DEEM DESIR/	AS REQUIRED FI ABLE, ALL (TLES)	ON THIS PLAT EXPIRE AT THE	LUDING THE RIGH	HEREIN, INCLUDING THE RIGHT TO OPERATE NEC T TO PRESERVE, PROTECT, REMOVE, OR PLANT TH IE CONSTRUCTION PROJECT FOR WHICH THIS INS	EREON ANY VEGETATION THAT THE HI RUMENT IS GIVEN,	GHWAY İ				SURVE	MIIIIIIII
											12022
THE HIGHWAY AUTHORITIES MA	Y DEEM DESIRA	BLE, BUT WITHOUT PREJUDIC R OTHERWISE ADVERSEI V ACT	TO THE OWNER'S	RPOSES, AS DEFINED HEREIN, INCLUDING THE RIC CLUDING THE RIGHT TO PRESERVE, PROTECT, REN RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENT FACILITIES.	S ON SAID LANDS OR TO FLATTEN THE	SLOPES,			REVISION DATE	- ovr	7
AN EASEMENT FOR HIGHWAY PI	URPOSES (HE)	S LONG AS SO USED. INCLUDE	IG THE RIGHT TO P	RESERVE, PROTECT, REMOVE, OR PLANT THEREO	ANY VEGETATION THAT THE HIGHWA	λY			10/02/2023 N.C		
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PROPERTY LINES SHOWN ON TH REPRESENTATION OF EXISTING	IS PLAT ARE DRA PROPERTY LINES	WN FROM DATA DERIVED FR , EXCLUDING RIGHT-OF-WAY,	OM MAPS AND DOC AND SHOULD NOT	CUMENTS OF PUBLIC RECORD AND/OR EXISTING C BE USED AS A SUBSTITUTE FOR AN ACCURATE FIE	CCUPATIONAL LINES, THIS PLAT MAY N D SURVEY.	NOT BE A TRUE		-	1/onerfill	APPROVED FOR TOWN OF SO	1111/-
FOR CURRENT ACCESS/DRIVEWA											(NAME/TITLE)
				BE CHECKED TO DETERMINE PROPERTY BOUNDAR	IFS AND ACCESS RIGHTS			, L	1		(money HILE)
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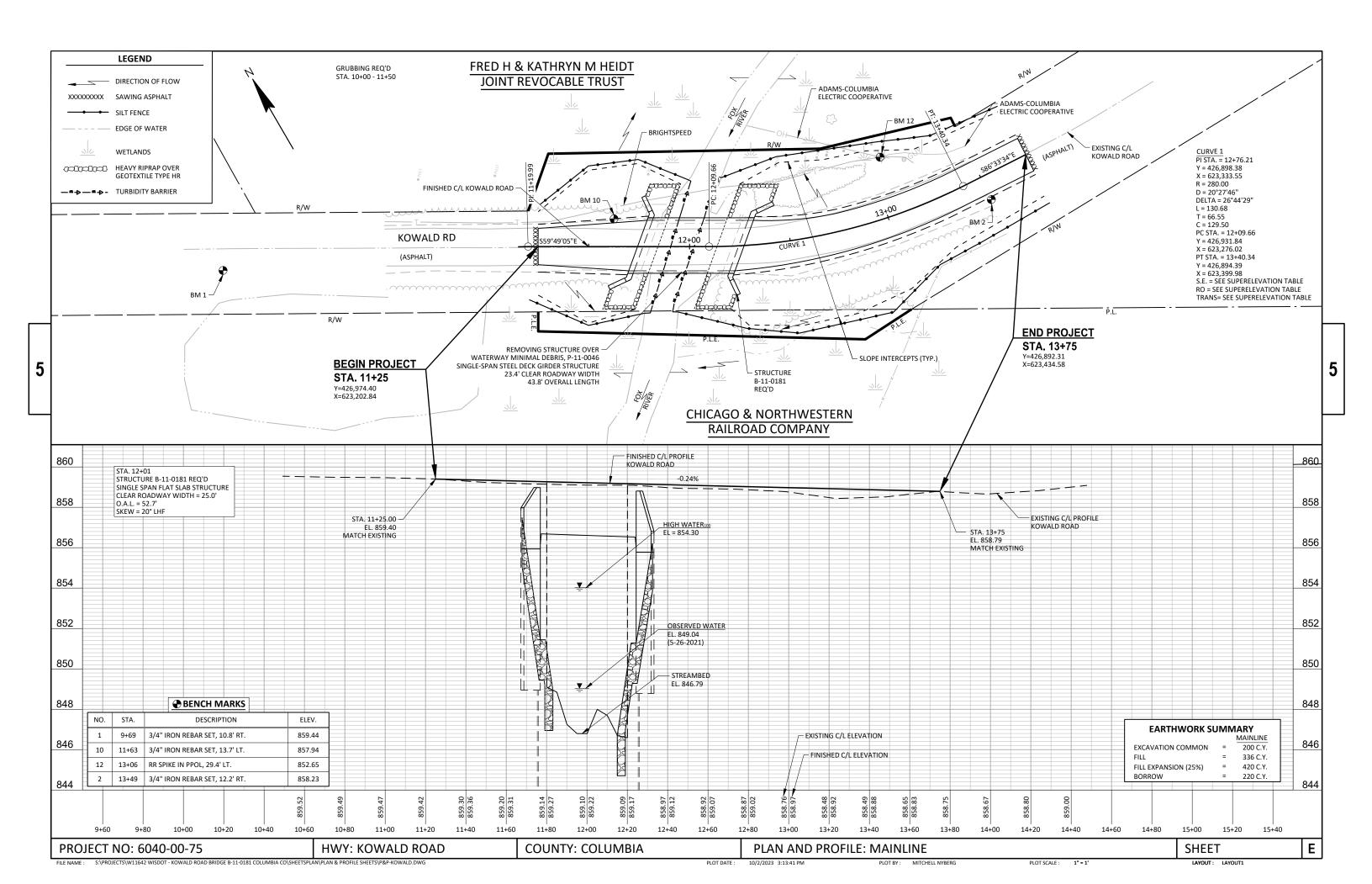
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PLOT BY : Tim Velte

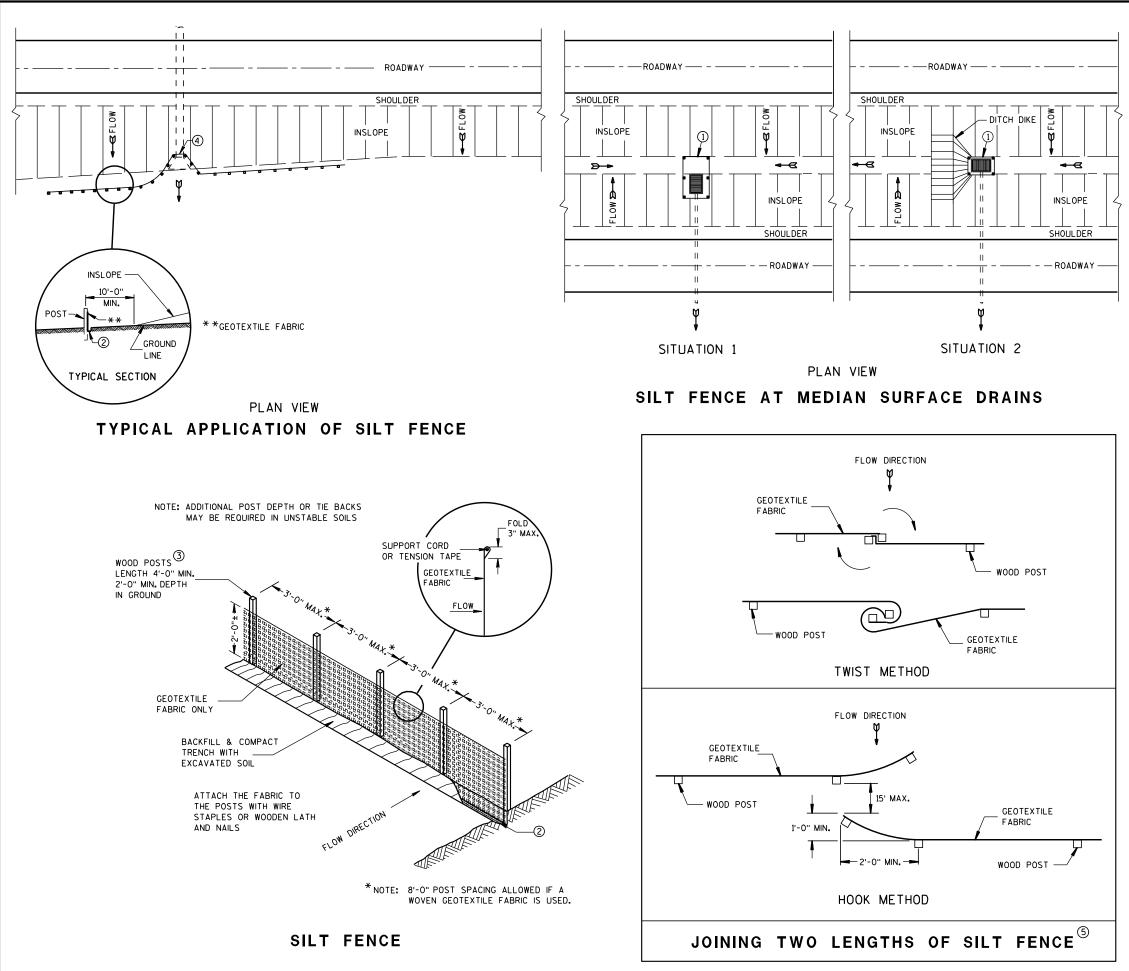
	S 11. SE(CO Y =	FA.13+5	AND 322.85' EAS 3N., R.11E., TOW	T OF THE	S ¹ / ₄ CORNER OF					
						SE SEC. 1 FOUND ALUMINUM COLUMBIA COUNTY MONUMENT Y = 426937.345 X = 625755.596			4	
			OF WAY LINE	TABLE						
		POINT TO POINT	BEARING	DISTANCE	E					
26		1 TO 2	N30° 10' 44"E	32.40']					
14 52		2 TO 3	N30° 10' 55"E	17.60'	4					
35		3 TO 4 4 TO 5	N49° 34' 47"E S60° 51' 38"E	30.11' 134.72'	4					
53		5 TO 6	S73° 07' 38"E	66.52'	1					
05		6 TO 7	S03° 26' 26"W	4.88']					
12		7 TO 8	S03° 26' 12"W	28.12'	4					
14 52 35 53 05 12 26 27 33		8 TO 9 9 TO 10	S03° 26' 12"W S03° 27' 13"W	4.99' 33.11'	-					
33		10 TO 11	S03 27 13 W	60.10'	1					
10		11 TO 12	S87° 12' 16"W	27.37'	1					
55		12 TO 13	N58° 25' 59"W	162.17'	1					
98 '21		13 TO 14	N30° 10' 55"E	9.64'	4					
21		14 TO 1	N60° 14' 21"W	5.00'						
	60	40-00-05	5		PLAT SHEET	4.02				
		6040-0	0-75		PS&E SHEET		E	-		
		PLOT	SCALE : 1:1		wı	SDOT/CADDS SH	ЕЕТ	70)	

PLOT NAME :



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDI NAL JOINTS
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



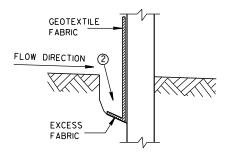
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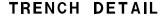
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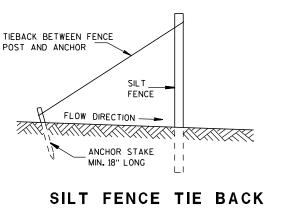
GENERAL NOTES

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

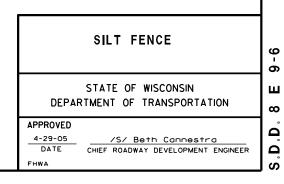
- \bigcirc horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3)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

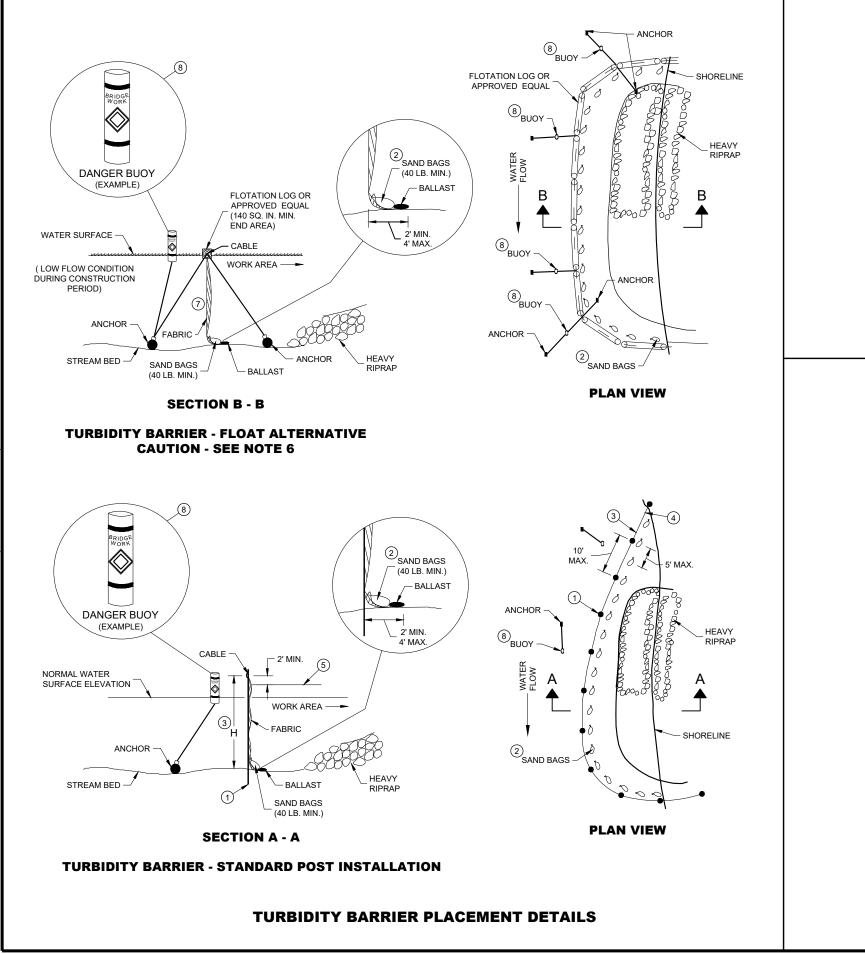




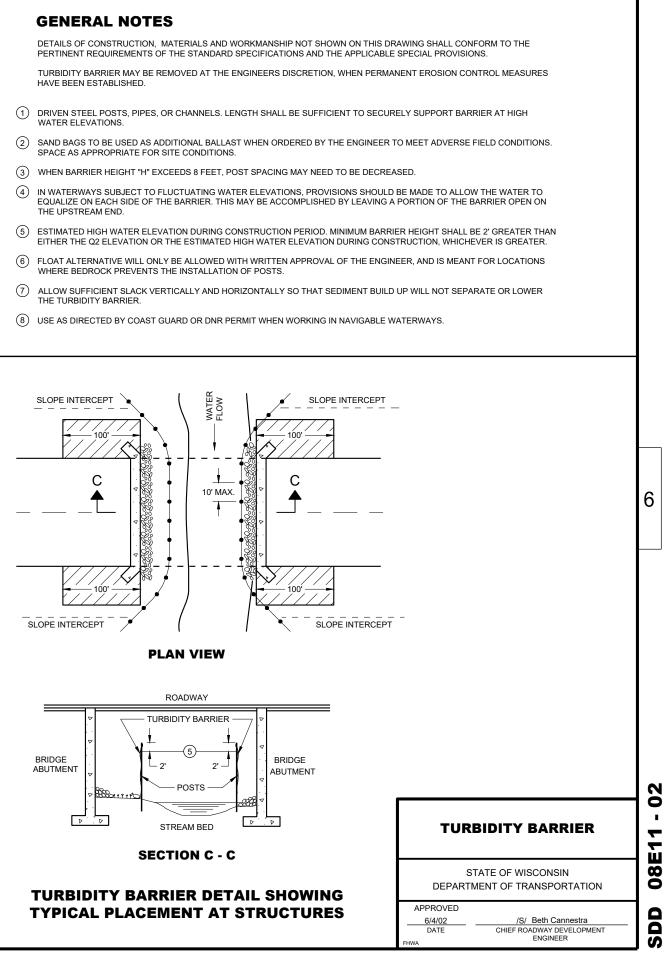


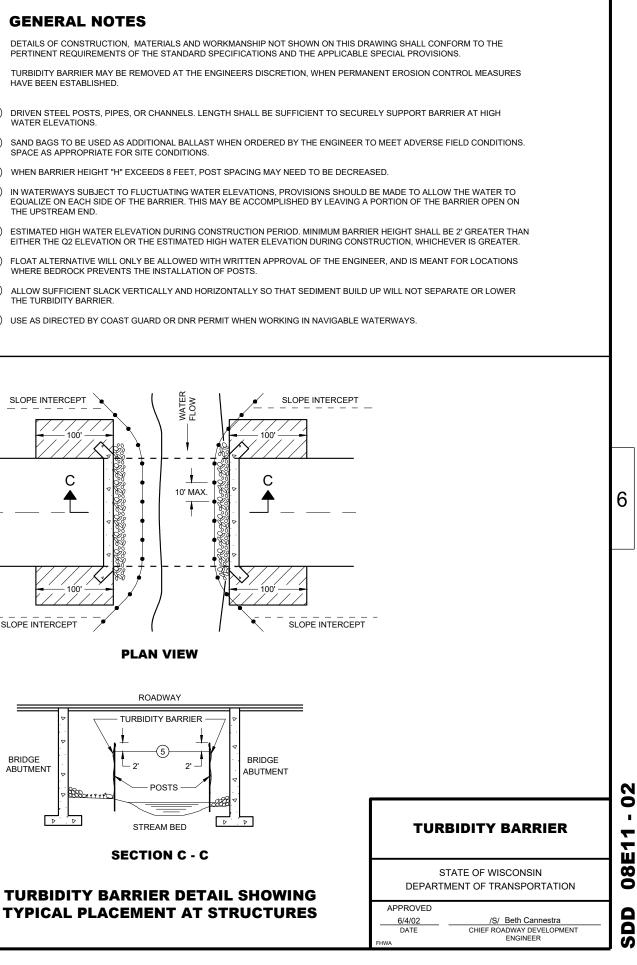
(WHEN REQUIRED BY THE ENGINEER)



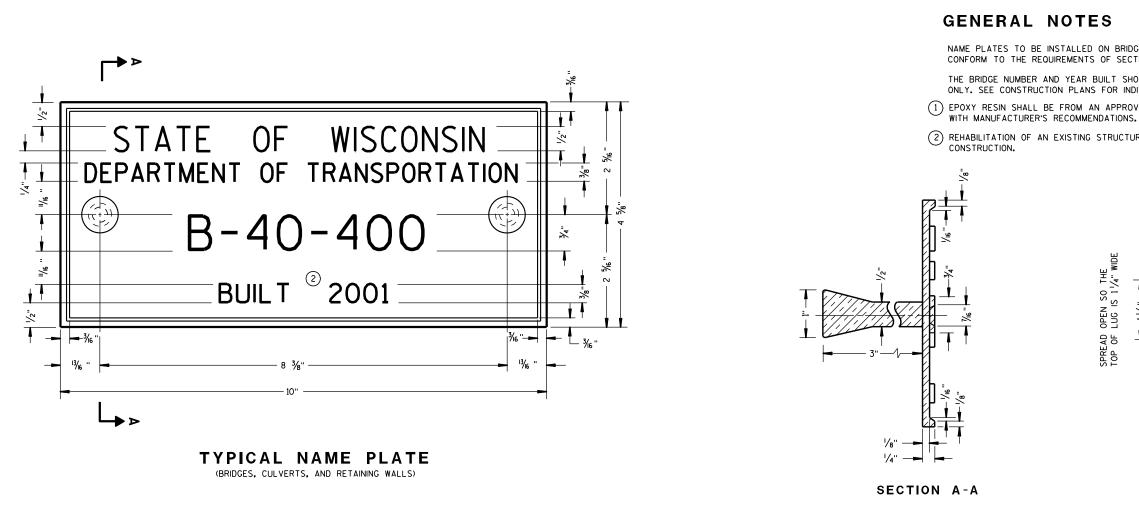


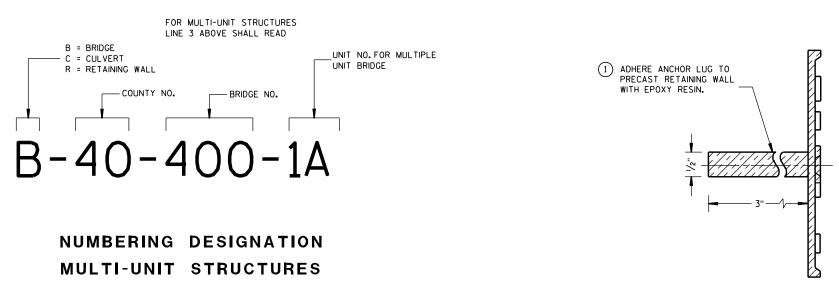
- WATER ELEVATIONS.





SDD 08E -02



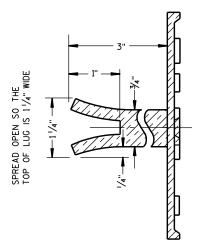


ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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

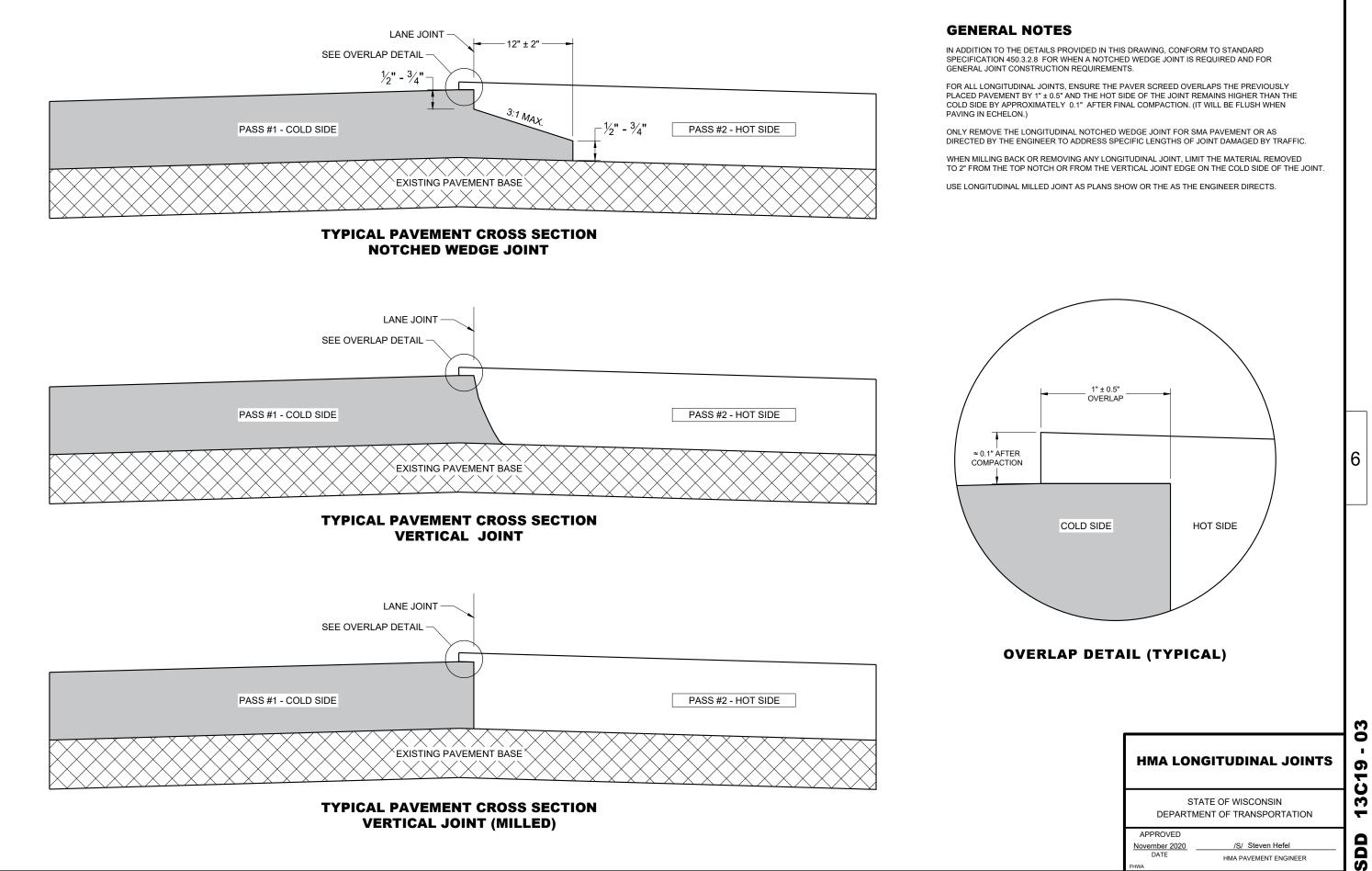
APPROVED

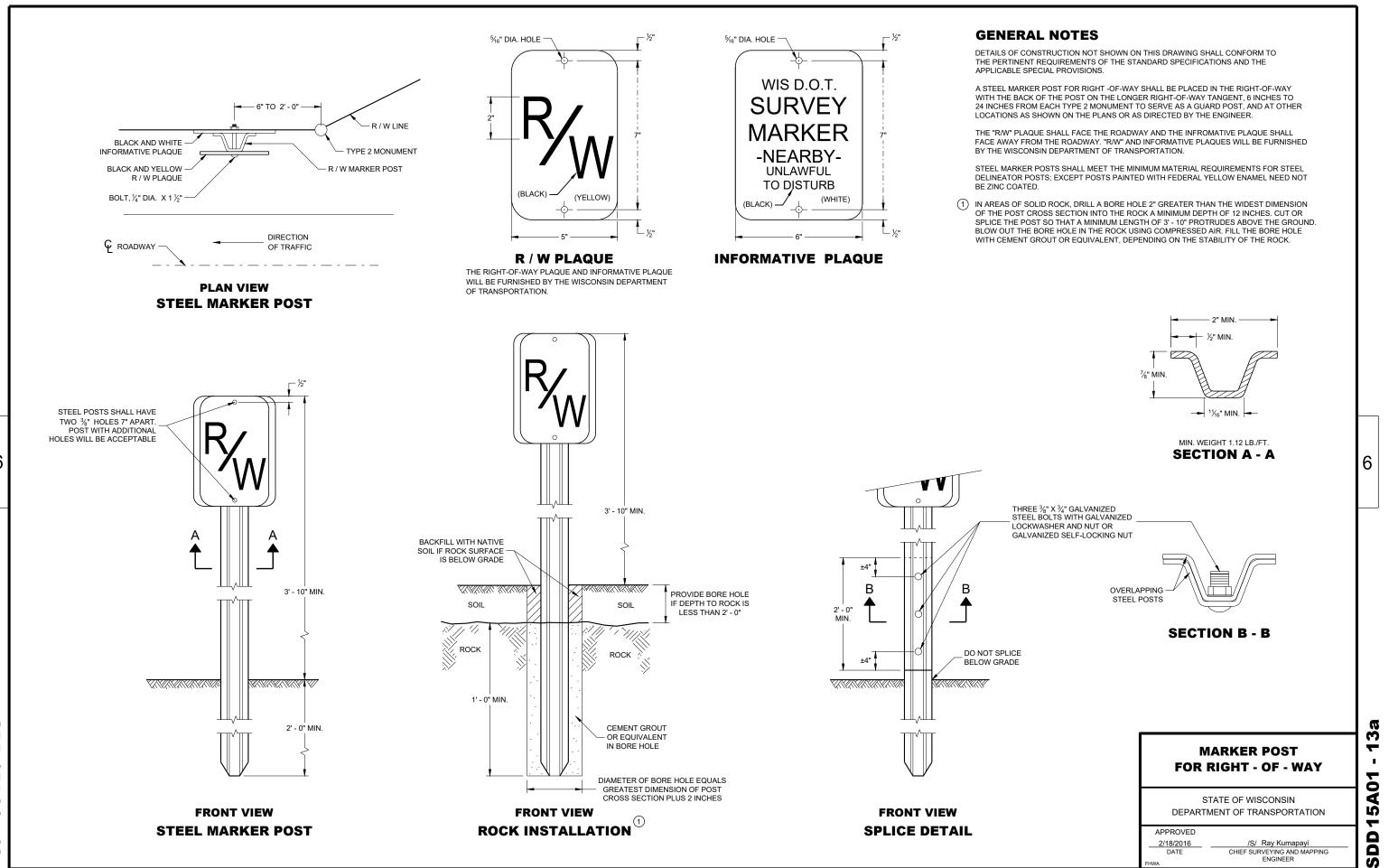
3/26/10 DATE FHWA

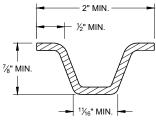
/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER 3-10 ∢ 2 Δ

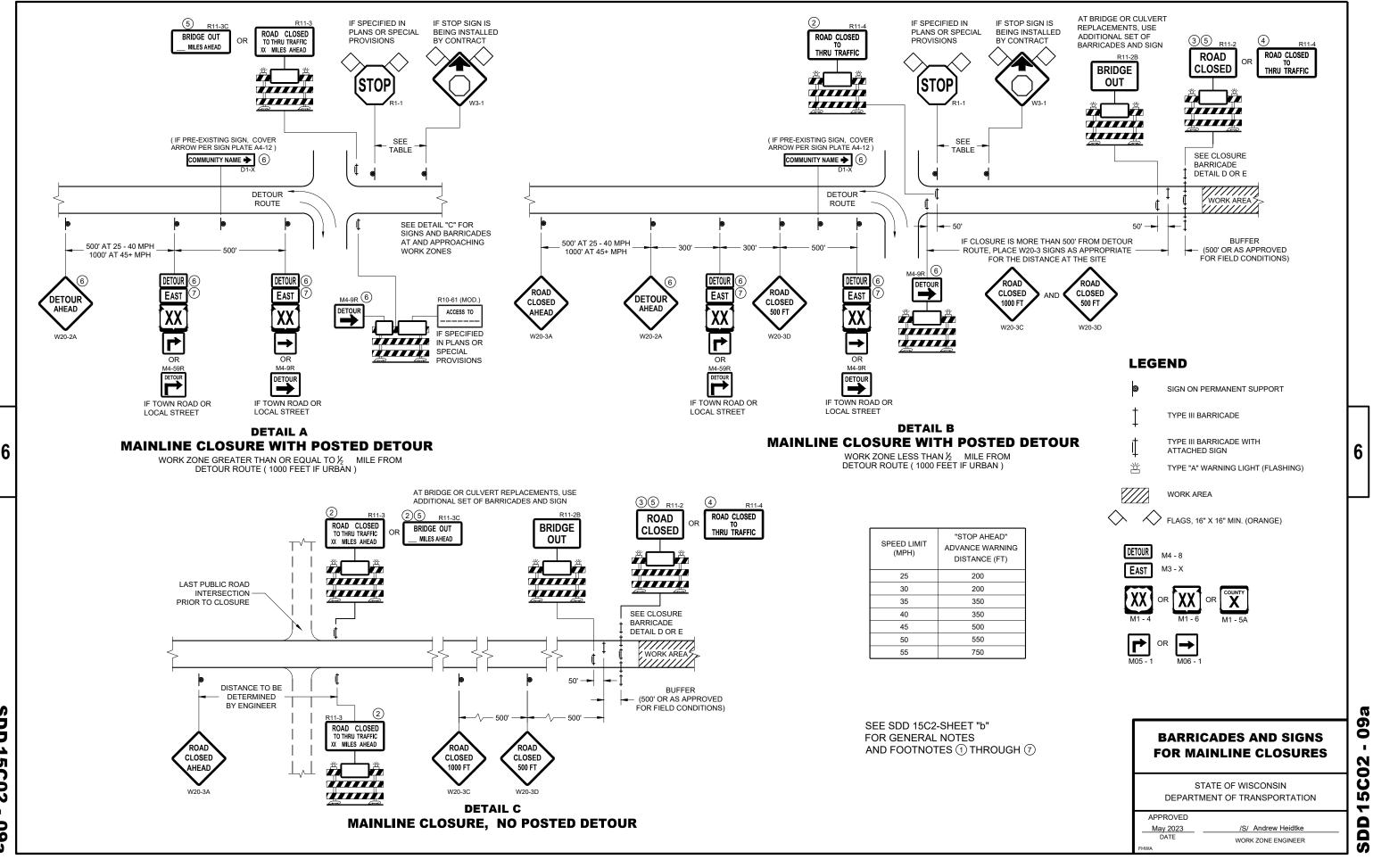
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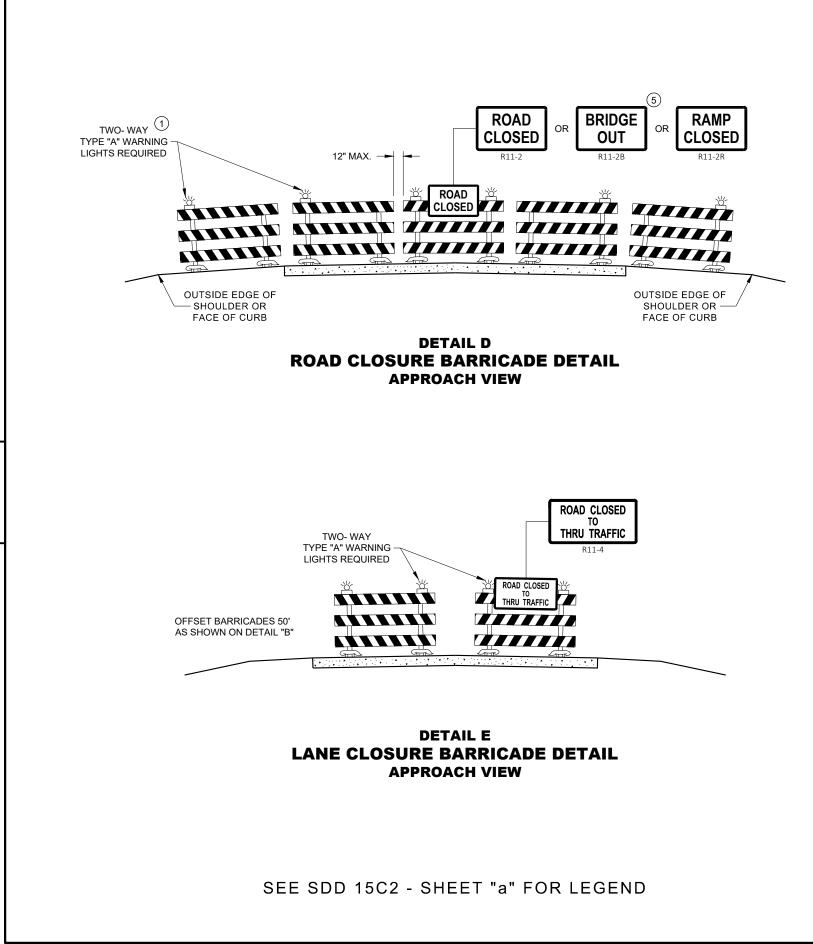








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GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

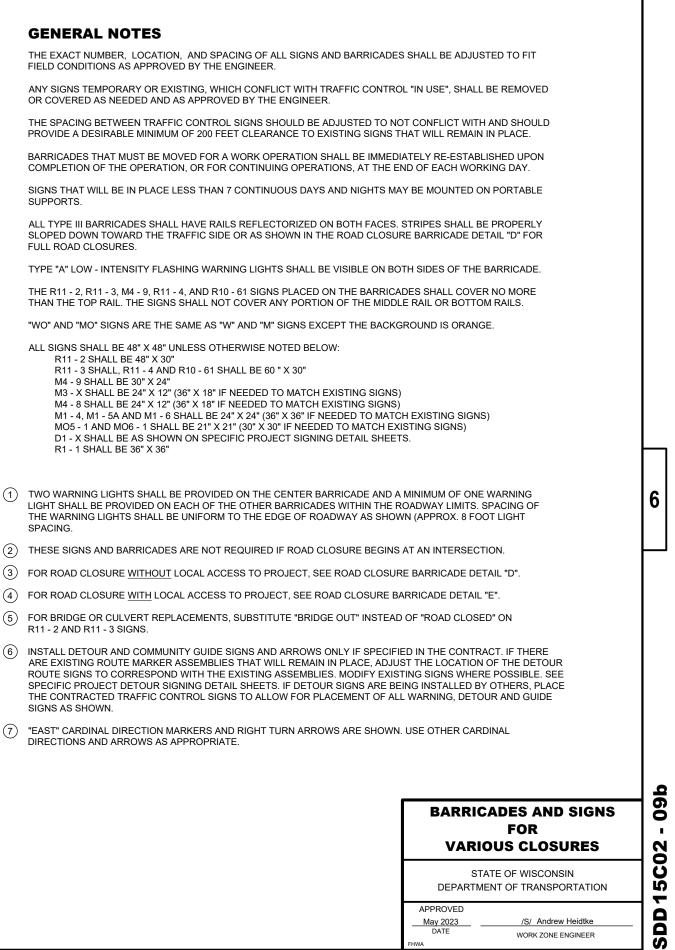
FULL ROAD CLOSURES.

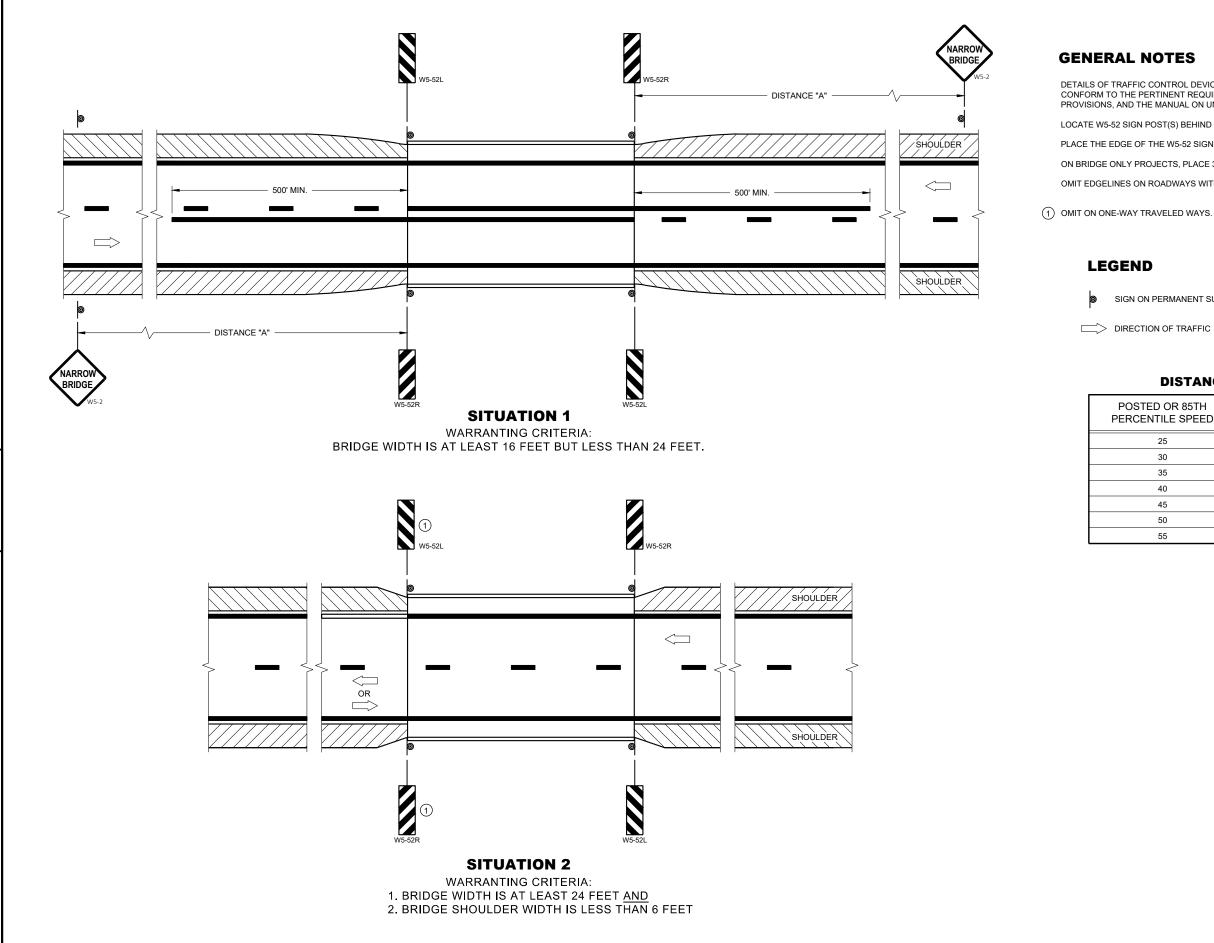
THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"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)

 - D1 X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
 - 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

15C06-12

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

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

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

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

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

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SIGNING AND MARKING FOR TWO LANE BRIDGES

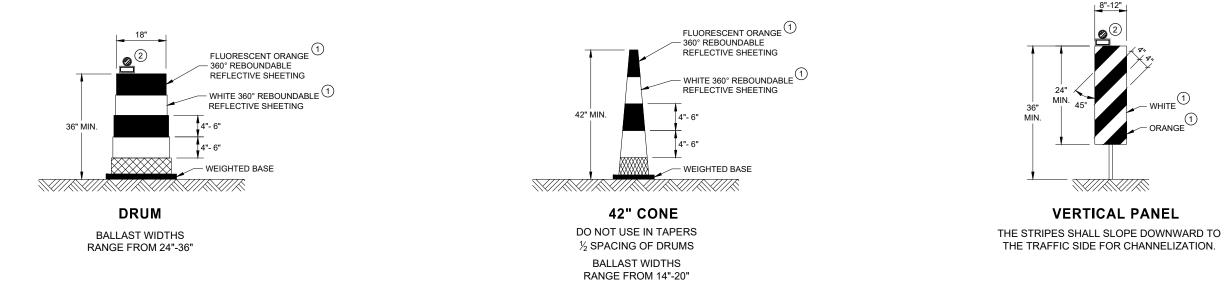
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

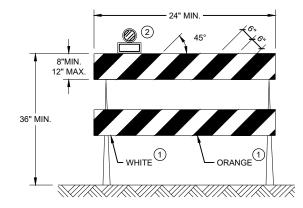
APPROVED May 2023 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER

GENERAL NOTES

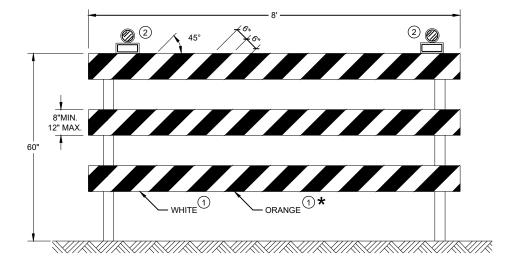
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





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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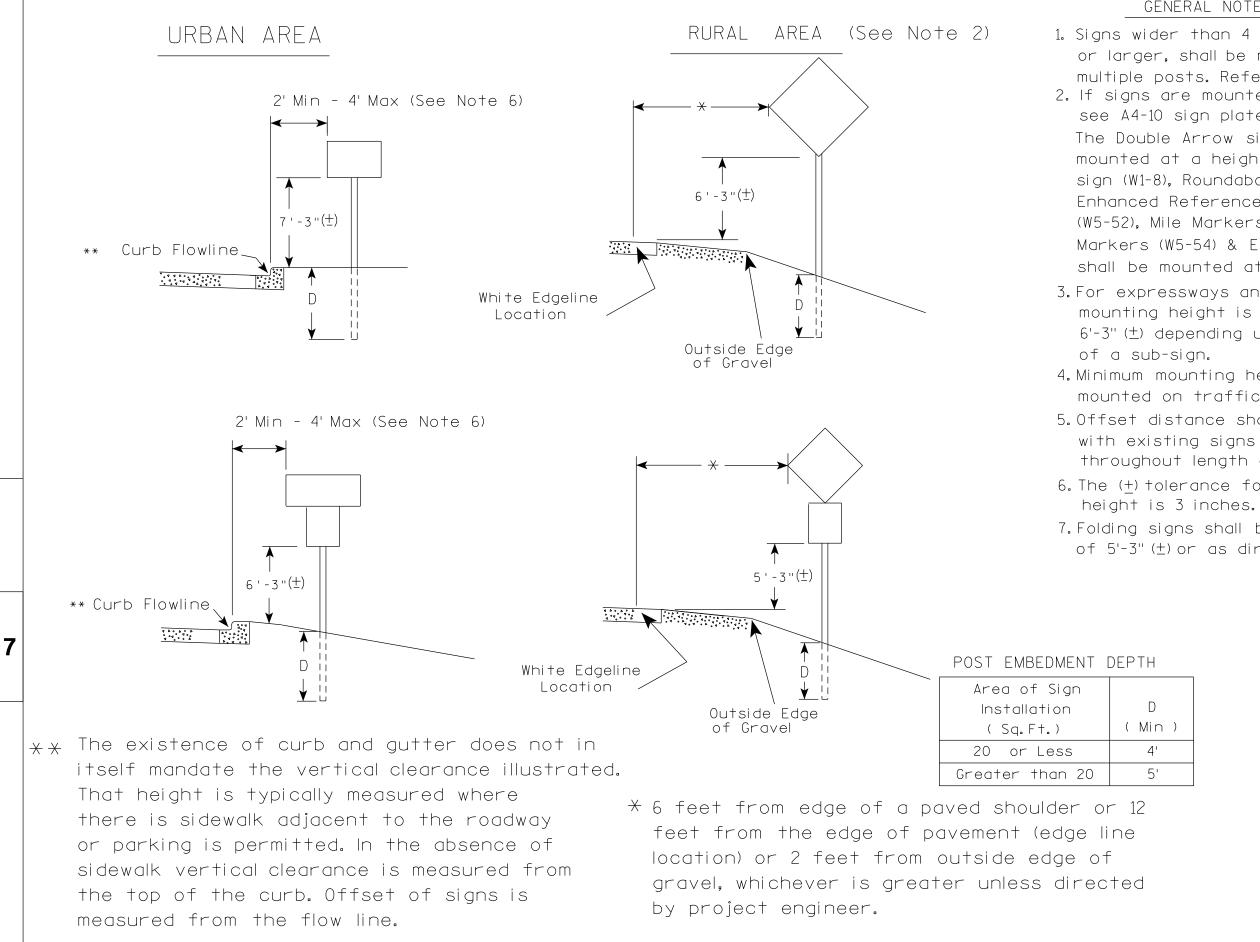
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CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

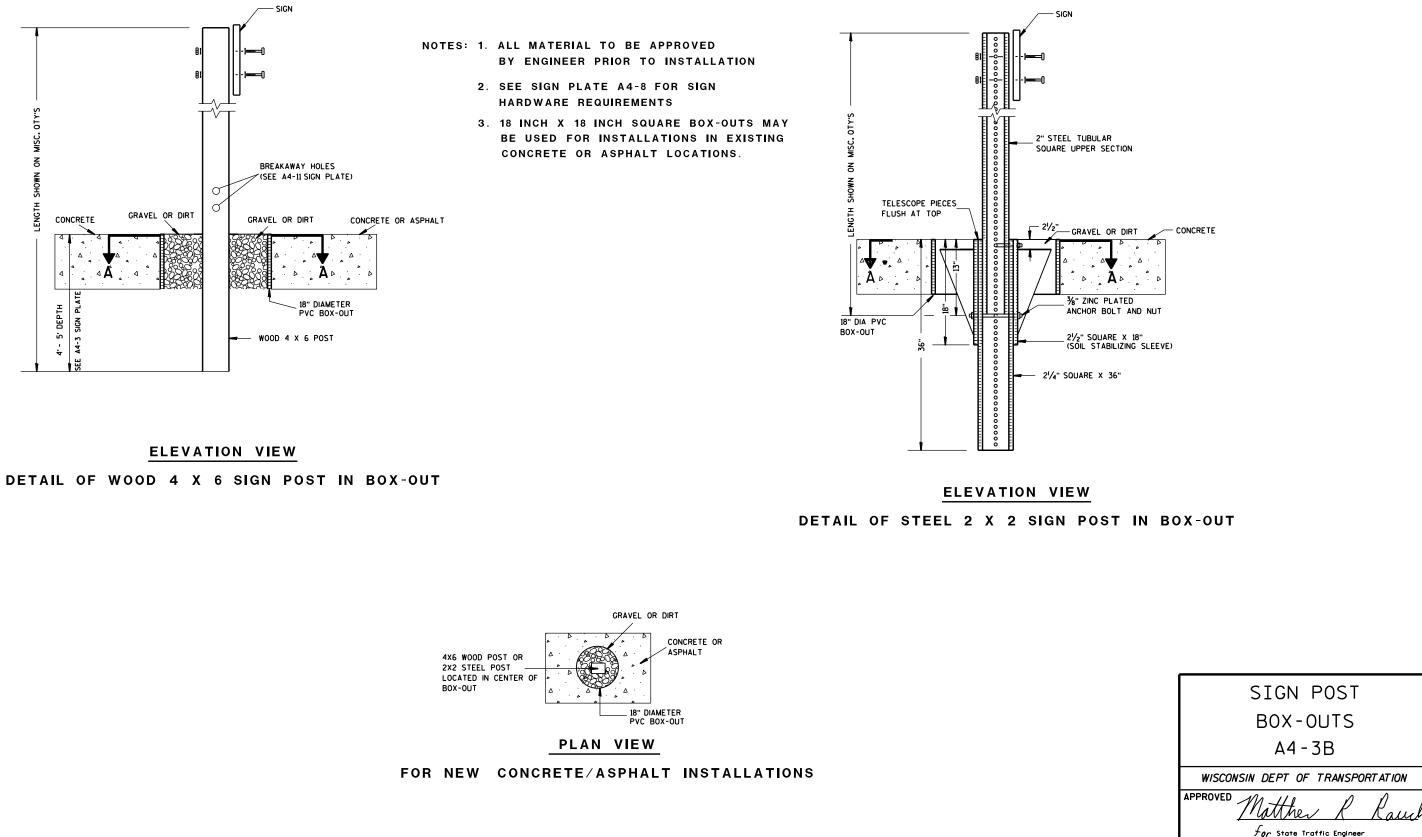


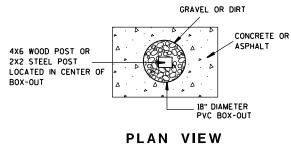
PROJECT NO:	HWY:	COUNTY:			
			DI AT DITE : 47 HUN 0000 4 4	DI OT DY IN IO	DLOT NAME -

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>44-3.22</u>
	SHEET NO: E
PLOT SCALE : \$\$	WISDOT/CADDS SHEET 42





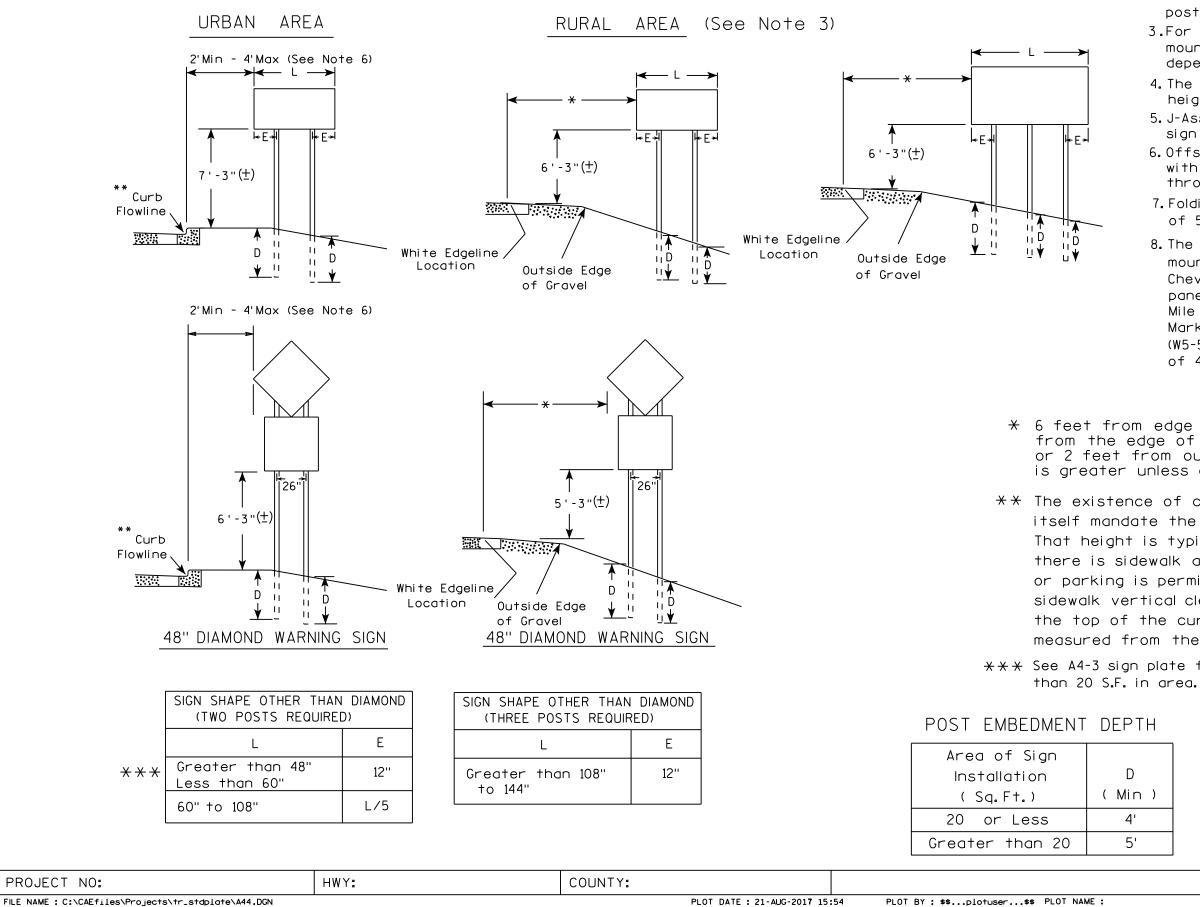
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

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.

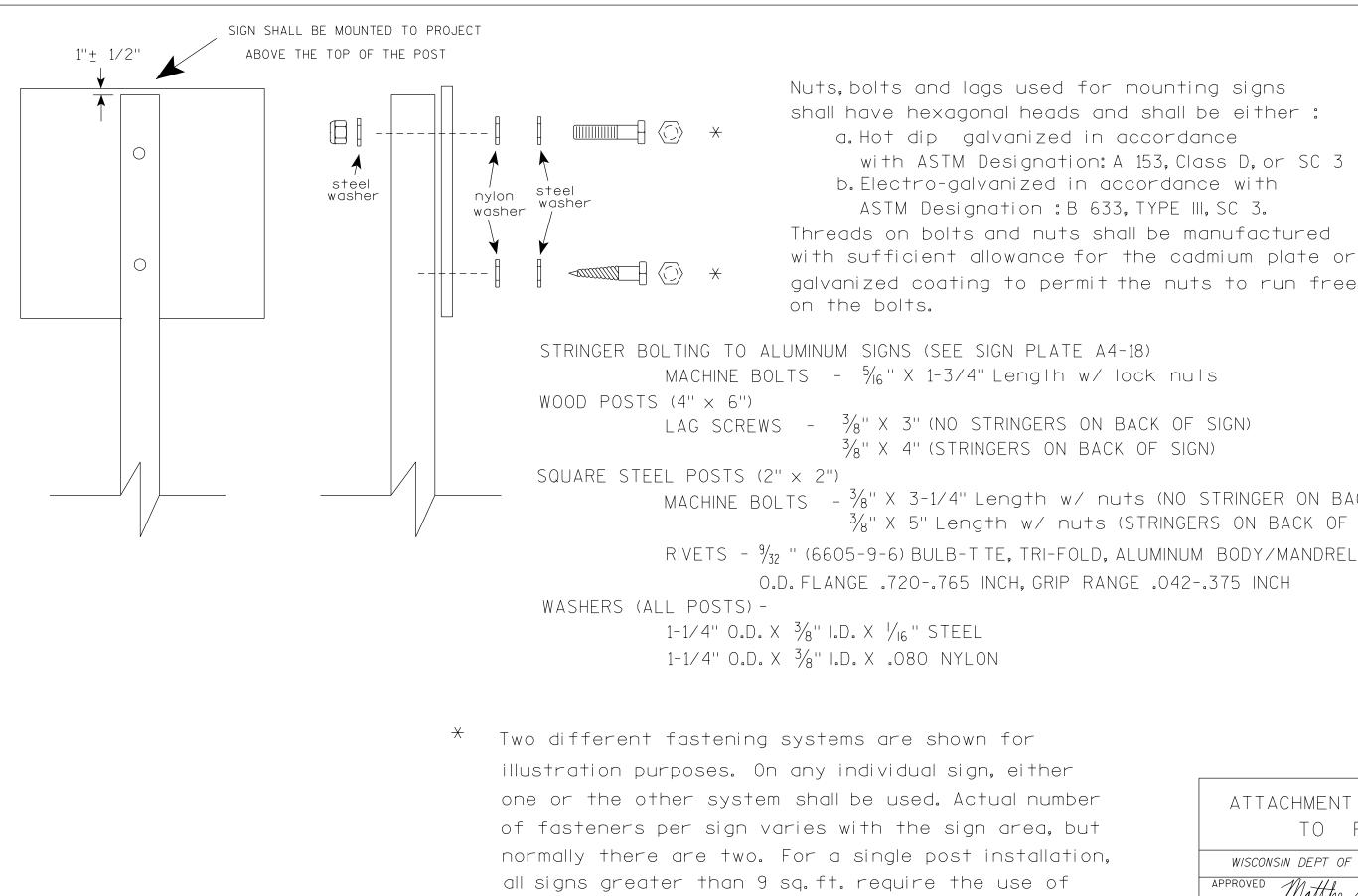
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs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



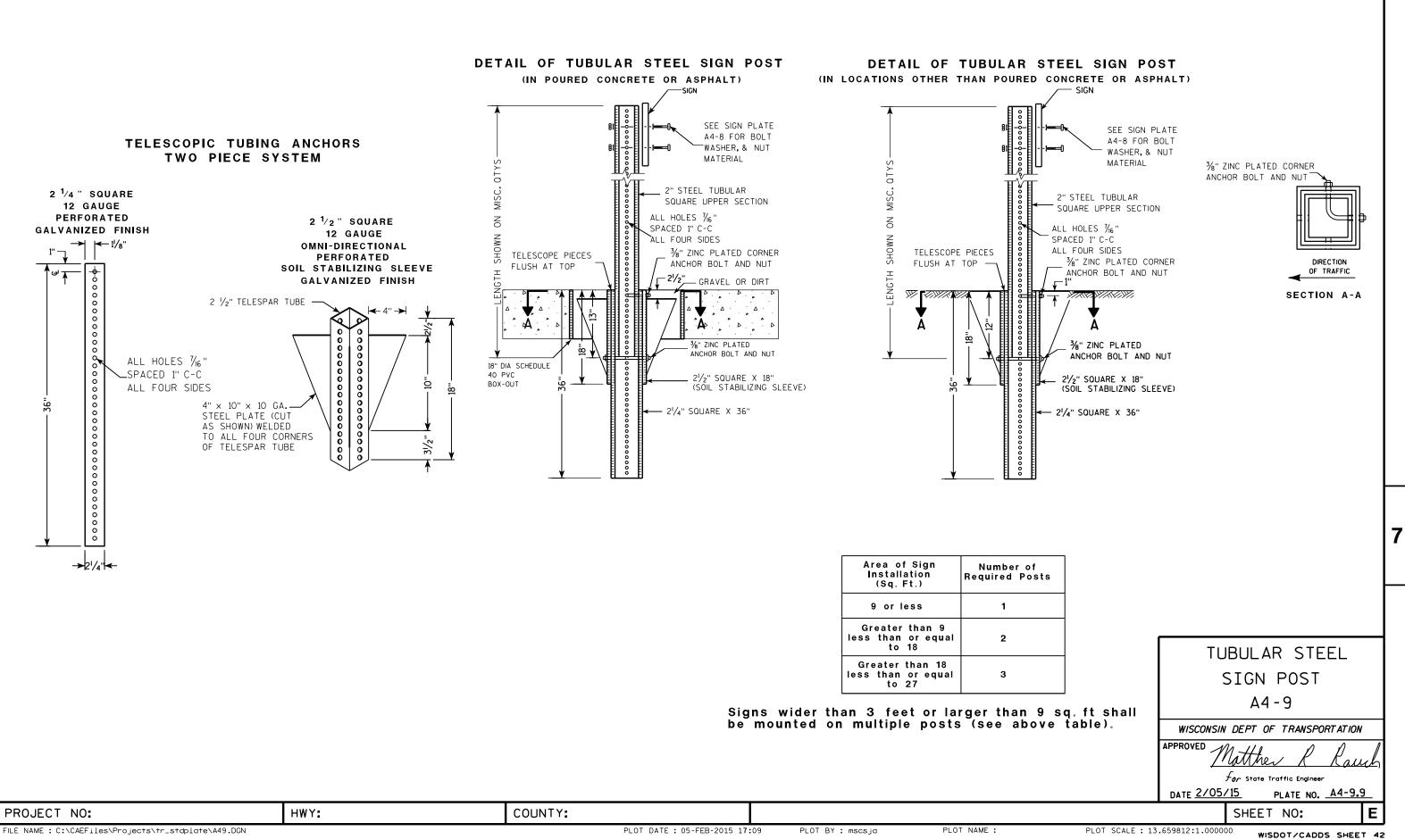
3 fasteners.

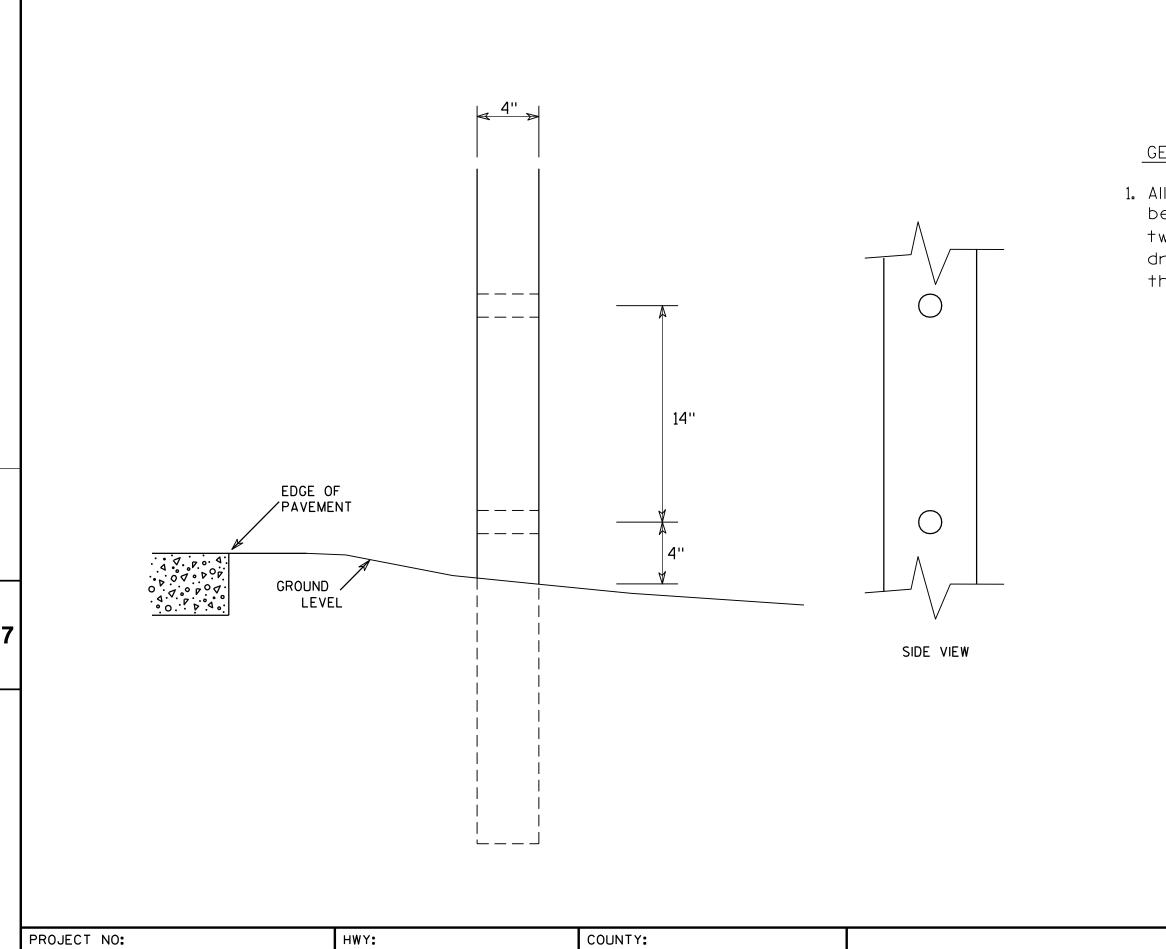
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured 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
For State Traffic Engineer
DATE <u>4/1/202</u> 0 plate no. <u>A4-8.9</u>
SHEET NO: E



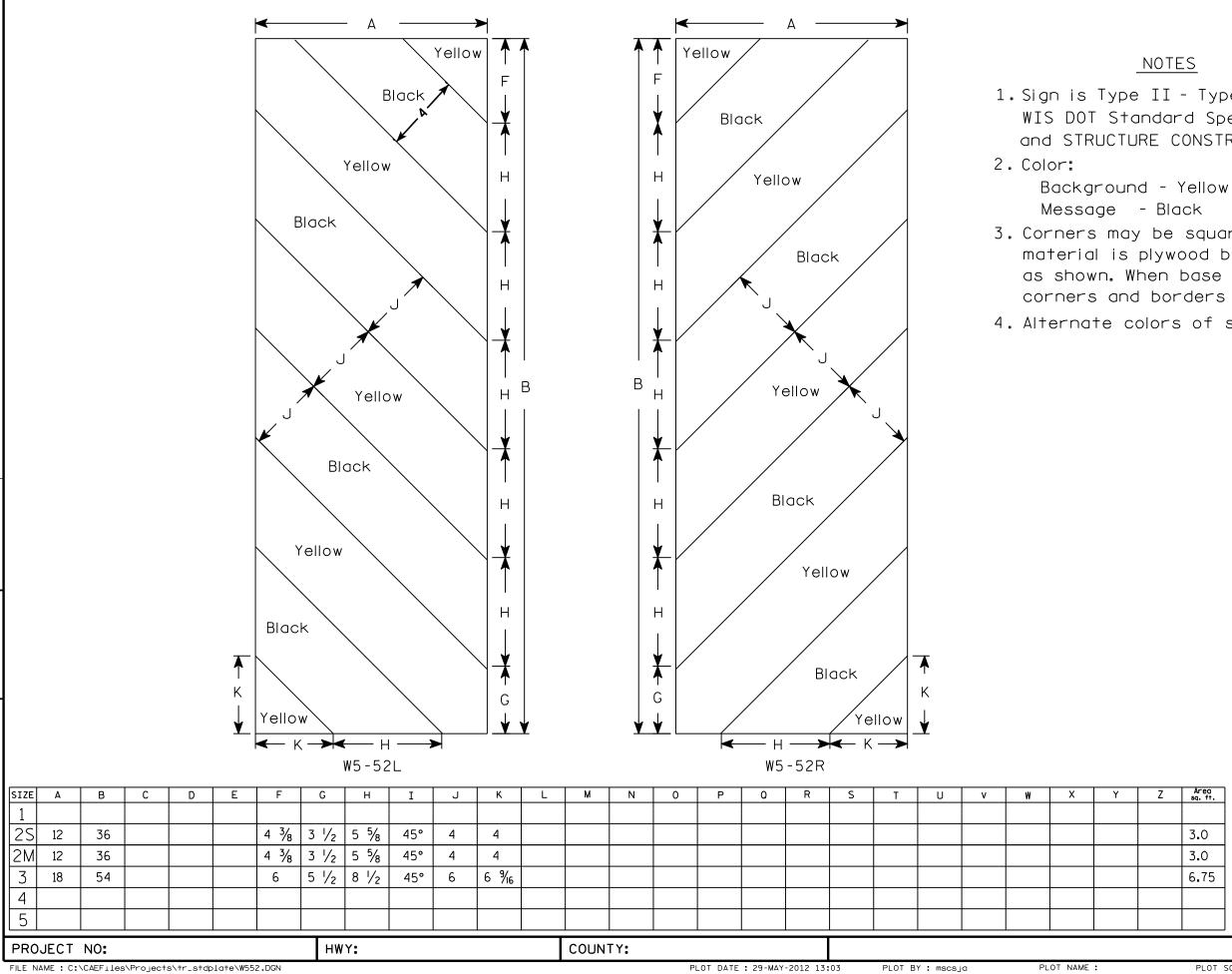


FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

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	ô	WOO	DF	POST	
		MOD	IF	FICA	TI	SNC	
	WISCONSIN DEPT OF TRANSPORTATION						
	APPROVE	D		hester .	Γέ	Spang	
			tor	State Tr	affic Er	ngineer	
	DATE 3	/27/9	<u>17</u>	PLA	TE NO	<u>A4-11.2</u>	2
			9	SHEET	N0:		Ε
OT SCALE	T SCALE : 6.207338:1.000000 WISDOT/CADDS SHEET 42						



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

7

PLOT NAME :

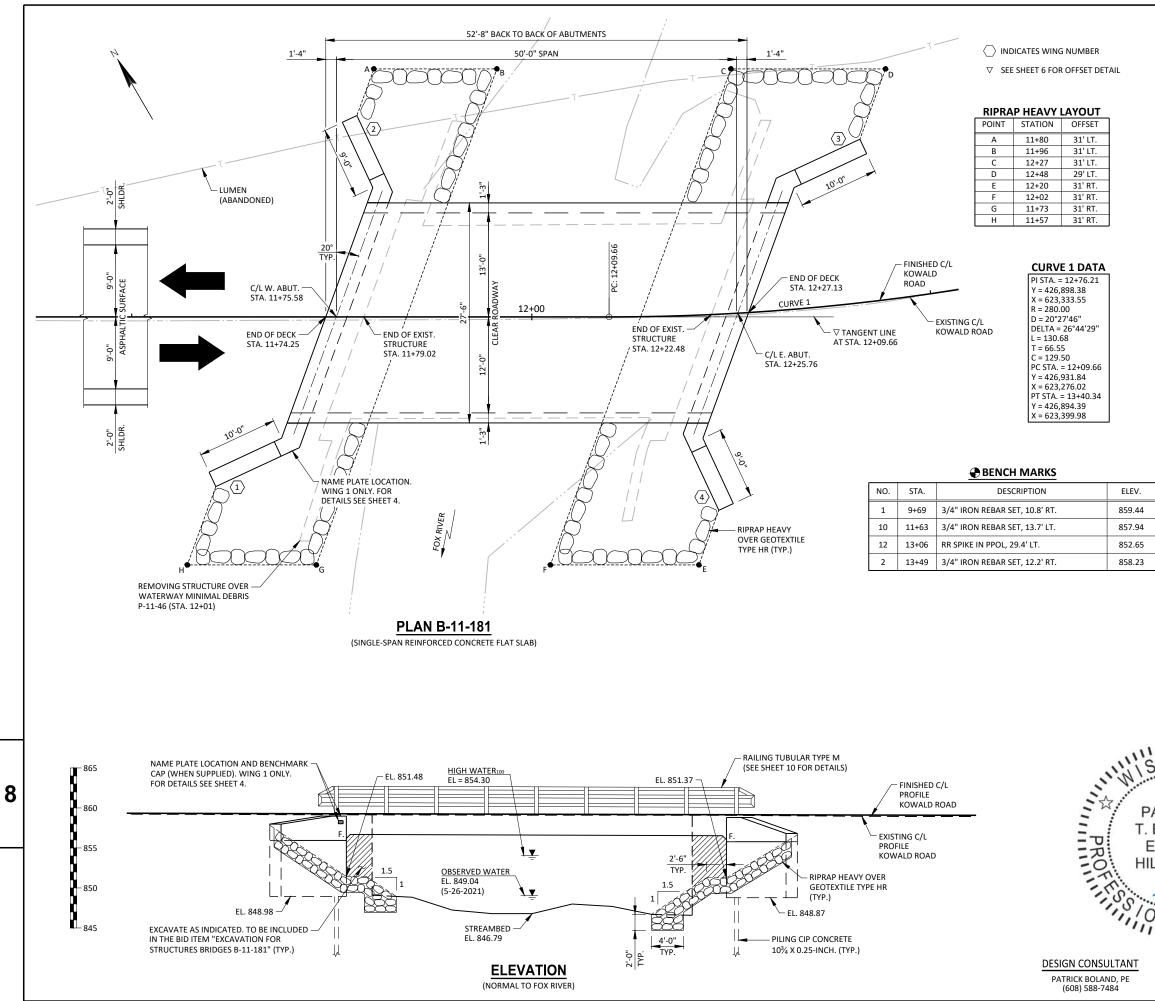
NOTES

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

PLOT DATE : 29-MAY-2012 13:03



S:\PROJECTS\W11642 WISDOT - KOWALD ROAD BRIDGE B-11-0181 COLUMBIA CO\STRUCTURE\CAD FILES\FINALS\01-GENERAL PLAN-KOWALD.DW

PLOT DATE : 8/17/2023 2:56:06 PM

PLOT BY : BOLAND, PATRICK

STATE PROJECT NUMBER

6040-00-75

DESIGN DATA

LIVE LOAD:

DESIGN LOADING	HL-93
INVENTORY RATING FACTOR	RF=1.10
OPERATING RATING FACTOR	RF=1.43
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV)	250 KIPS
STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 I	P.S.F.
MATERIAL PROPERTIES:	
CONCRETE MASONRY, SUPERSTRUCTURE f'c	= 4,000 P.S.I.

	ALL OTHER	f'c = 3,500 P.S.I.
HIGH-STRENGTH BAR STEEL		
REINFORCEMENT, GRADE 60		fy = 60,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING CIP CONCRETE 10¾ X 0.25-INCH DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 120 TONS** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATE 25 FT PILE LENGTHS AT BOTH ABUTMENTS.

**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. (2024)	40
A.D.T. (2044)	60
DESIGN SPEED	25 M.P.H.

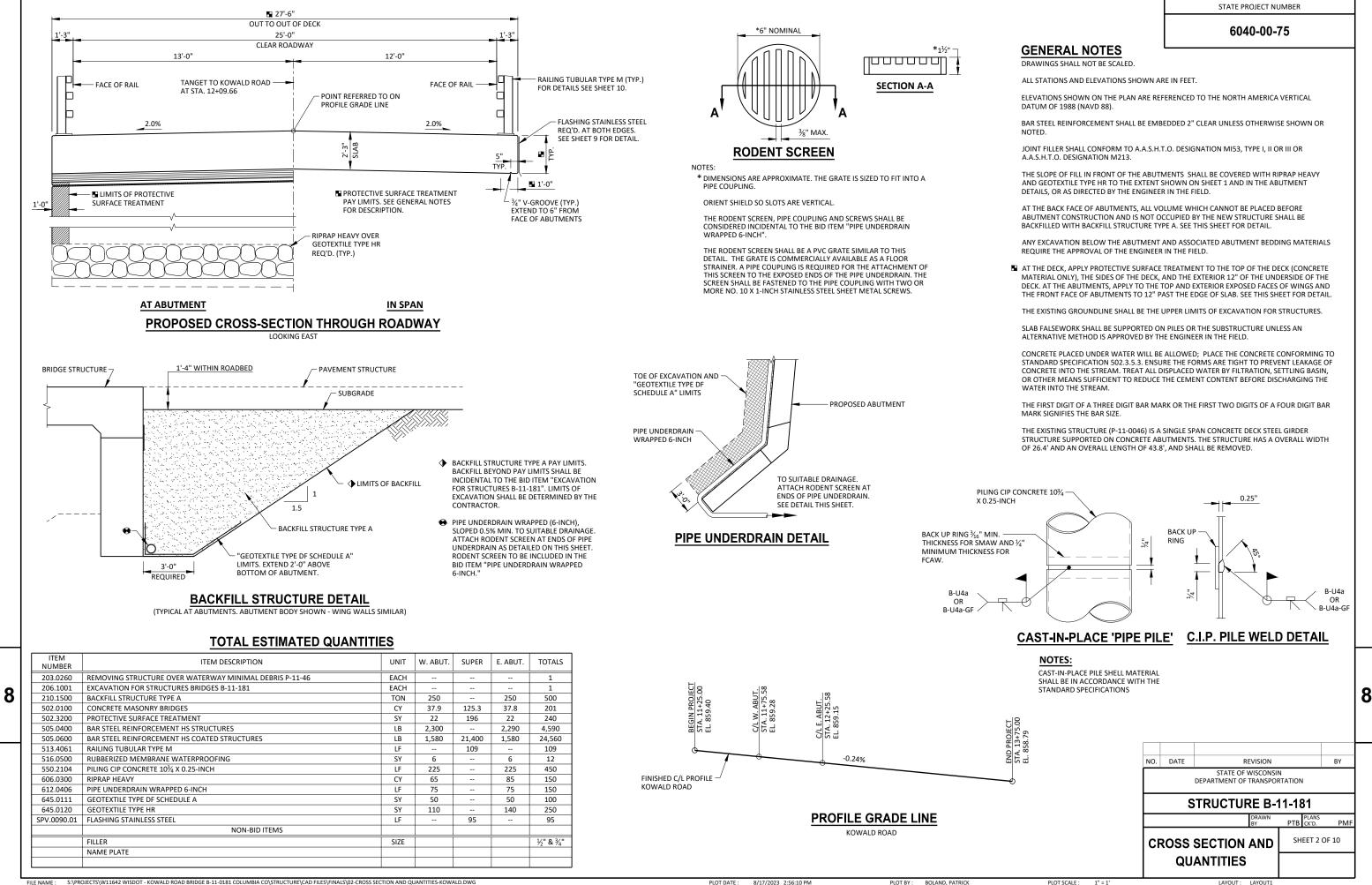
HYDRAULIC DATA

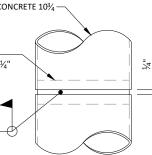
100 YEAR FREQUENCY	
DRAINAGE AREA	16.1 SQ. MI.
Q100 TOTAL	880 C.F.S.
THROUGH STRUCTURE	880 C.F.S.
OVERTOPPING ROADWAY	N/A
VELOCITY - THROUGH STRUCTURE	3.7 F.P.S.
WATERWAY AREA - THROUGH STRUCTURE	239 SQ. FT.
HIGH WATER100 ELEVATION	854.30
SCOUR CRITICAL CODE	5
EROSION CONTROL	
Q2	235 C.F.S.
VELOCITY2	1.9 F.P.S.
HIGH WATER2 ELEVATION	851.52

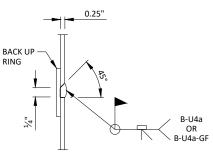
LIST OF DRAWINGS

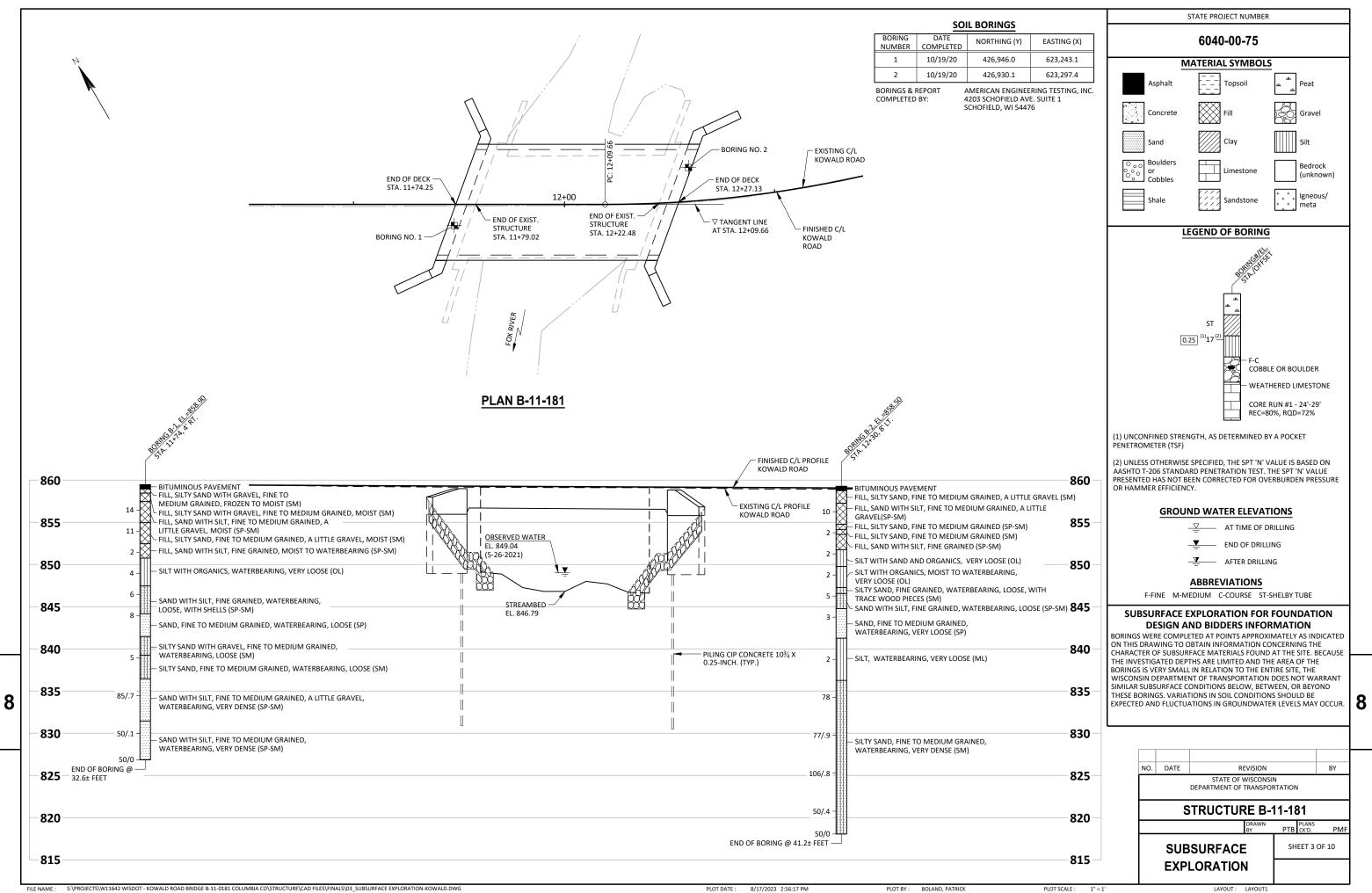
GENERAL PLAN	1.
CROSS SECTION AND QUANTITIES	2.
SUBSURFACE EXPLORATION	3.
WEST ABUTMENT	4.
WEST ABUTMENT DETAILS	5.
EAST ABUTMENT	6.
EAST ABUTMENT DETAILS	7.
SUPERSTRUCTURE	. 8.
SUPERSTRUCTURE DETAILS	
TUBULAR RAILING TYPE M	10.

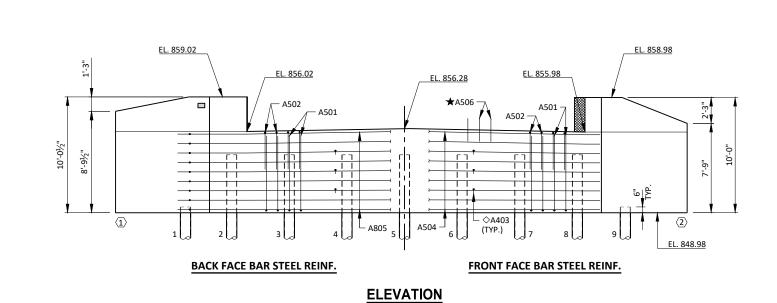
al adda						
CONS	NO. DATE	THE AND	SPRING	GUNRISE D GREEN, W E: (608) 58 JewellAsso	/I 53588 8-7484	8
ATRICK BOLAND 5-36303	ACCEPTED	STATE OF V DEPARTMENT OF T			8/23 DATE	
	STRUCTURE B-11-181					
PAL ENGLI	COUNTY DESIGN SPEC. AASI	COLUMBIA	TOWN/ CITY / V	ILLAGE	SCOTT	
TIM	DESIGNED BY PTE	DESIGN CK'D. PMF	DRAWN BY	PLANS CK'D.	PMF	
BRIDGE OFFICE CONTACT AARON BONK, PE (608) 261-0261	GEN	ERAL PLA	N -	SHEET 1	OF 10	
PLOT SCALE : 1" = 1'		LAYOUT :	LAYOUT1			











16'-7"

C/L KOWALD ROAD -

1'-0

TYP.

▲½"

A501

4'-5"

2'-11"

11"

1'-11"_

FILLER

★A506 0-

- EDGE OF SLAB

16'-11"

C/L KOWALD ROAD

- A502 🛛 🗘 A403 🦳 A805

-02

Δ50*1*

12 SPA. @ 1'-0" = 12'-0"

3 SPA. @ 4'-0" = 12'-0"

16 SPA. @ 1'-0" = 16'-0"

3 SPA. @ 5'-0" = 15'-0"

G,

13'-8½"

14'-7'

6'-4¹/2"

1'-5"

7'-5¹⁄/;"

2'-1½"

★ A506

SPACING

◇A403

SPACING

PILE

SPACING

SPACING A501 & A502

C/L BEARING

& PILES

2'-0"

16'-9"

EDGE OF SLAB

▲¹⁄3'

FILLER

A805

€

3'-1"

2'-1"

1'-1"

14'-9"

STA. 11+75.58

15'-8"

STA. 11+75.58

- 4'-4" I AP

ēΘ

B.F

- F F

3 SPA. @ 4'-0" = 12'-0"

16 SPA. @ 1'-0" = 16'-0"

3 SPA. @ 5'-0" = 15'-0"

13 SPA. @ 1'-0" = 13'-0"

Ð

17'-1"

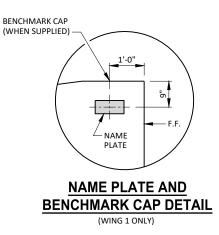
F.F

34'-0"

PLAN

2'-0" 2'-0"

LAYOUT



1.5 1 RIPRAP HEAVY

ABUTMENT.

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 ¹/₈" BELOW SURFACE OF CONCRETE)
- ★ 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 DRAINAGE. 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."
- ♦ ALTERNATE THE POSITION OF THE 90° AND THE 180° BENDS AT EACH VERTICAL LAYER OF TIES.



S:\PROJECTS\W11642 WISDOT - KOWALD ROAD BRIDGE B-11-0181 COLUMBIA CO\STRUCTURE\CAD FILES\FINALS\04 ABUTMENTS-KOWALD.DW

7'-1'

 $\langle 1 \rangle$

8'-2"

2'-1½"

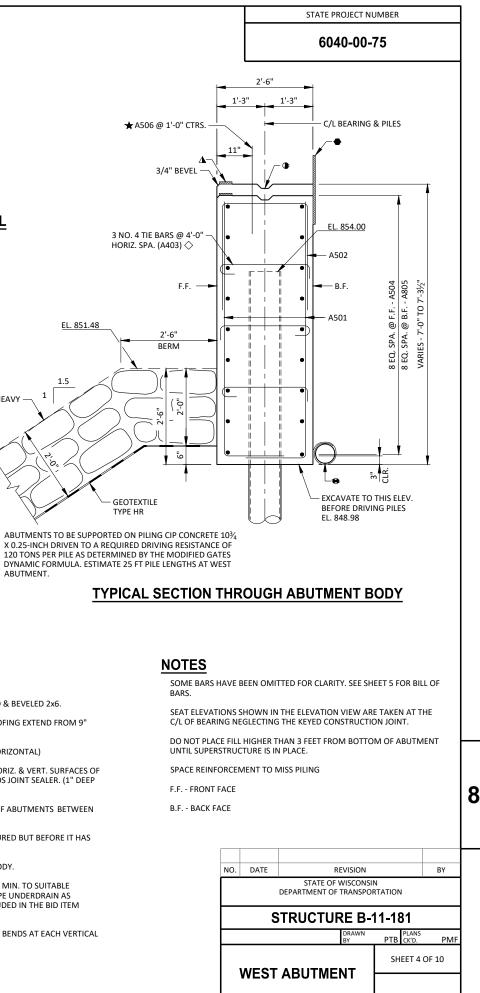
"7-'6

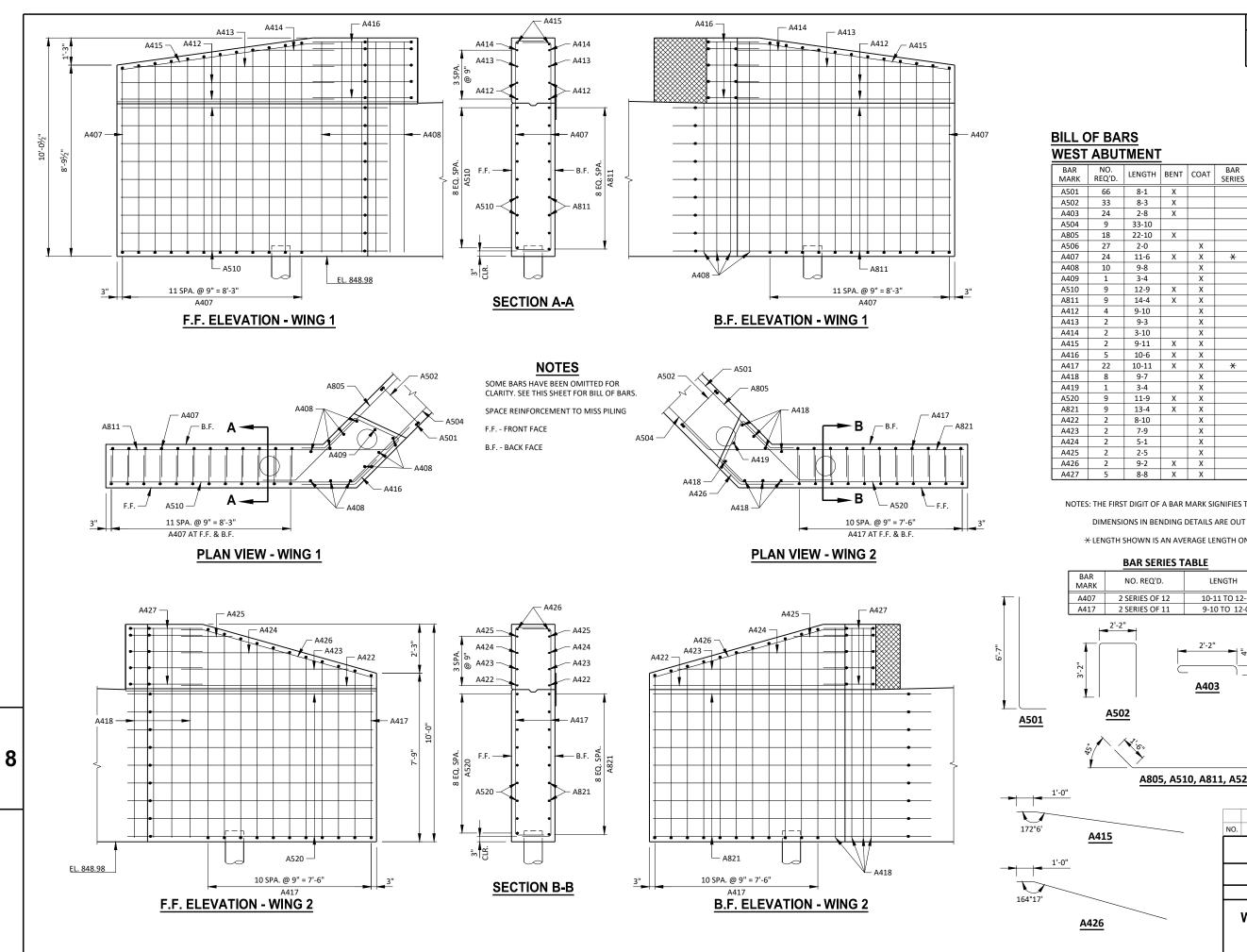
C/L BEARING

& PILES

8

2'-0"





STATE PROJECT NUMBER

6040-00-75

	2	5-1		Х		WING 2- HORIZ F.F. & B.F.	
	2	2-5		Х		WING 2- HORIZ F.F. & B.F.	
	2	9-2	X	X		WING 2 - HORIZ F.F. & B.F TOP	
	5	8-8	Х	X		WING 2 - HORIZ TOP	
	DIMENSI	ONS IN BEI	NDING [DETAILS	ARE OUT T	HE BAR SIZE. TO OUT OF BAR. ILY. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.	
		BAR SEF				1'-4"	
ЗA	NR .				NCTU		
1A	RK	NO. REQ'D			NGTH	× 2'.4"	
_		SERIES OF			1 TO 12-1	135°-/	
۹4		SERIES OF	11	9-10) TO 12-0		
	2'-2					135° ×	
Ţ			+	2'-2"		2'-6"	
Ī					4	<u>A416</u>	
1			\subset	-			
	,			A403	3		
1		I			-	70° 70° 135°	
	A50	2				<u>1'-4"</u>	
						A407 & A417	
		X'6.				2'-6"	
	in / .՝	``				A427	8
10.	*/ \	<u> </u>					
10.		<u> </u>					0
10	*/ •	<u></u>	5, A51	0, A81	1, A520	0 & A821	0
72.	*/	<u></u>	5, A51	0, A81	.1, A52(0 & A821	0
10.	*/	<u></u> <u>A80</u> !	5, A51	0, A81	.1, A52(0 & A821	0
72	*/	<u>A80</u> !	5, A51	.0, A81			0
75	A415	<u>A80</u> !	5, A51	0, A81		DATE REVISION BY	0
	*/ y <u>A415</u>	<u>A80</u> !	5, A51	0, A81		DATE REVISION BY STATE OF WISCONSIN	0
46.	¥∕ ¥ <u>A415</u>	<u>A80</u> !	5, A51	0, A81		DATE REVISION BY	0
	<u>A415</u>	<u>A80</u> !	5, A51	0, A81		DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	0
40.	A415	<u>A80</u> !	5, A51	<u>0, A81</u>		DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-11-181	0
- V-	A415	<u>A80</u> !	5, A51	<u>0, A81</u>		DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	0
	<u>A415</u>	<u>A80</u>	5, A51	<u>0, A81</u>	NO.	DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-11-181 BY PTB CK'D. PMF	0
_	<u>A415</u> 426	<u>A80</u>	5, A51	<u>0, A81</u>	NO.	DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-11-181 DRAWN IPLANS	0

WEST ABUTMENT

1,580 LB (COATED) 2,300 LB (UNCOATED)

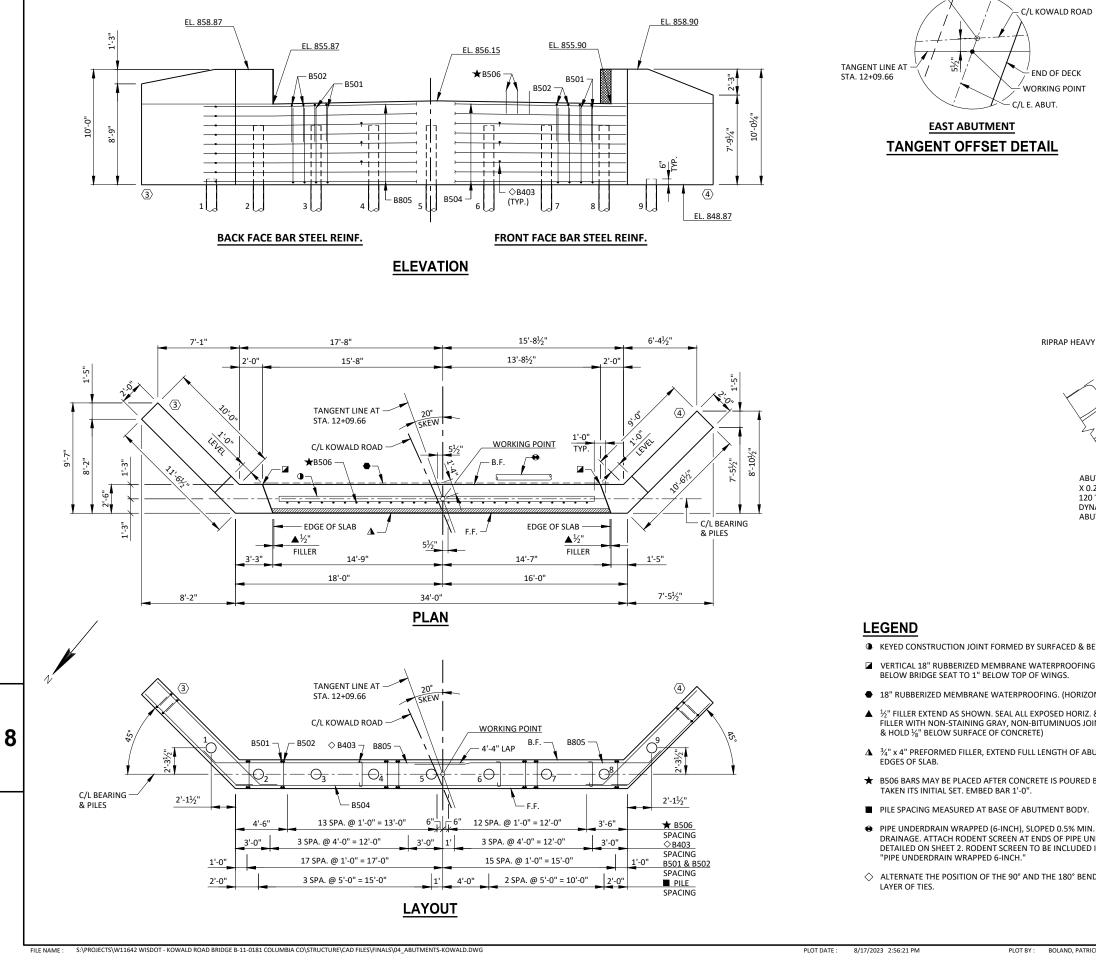
LOCATION

BODY - VERT. - F.F & B.F. BODY - VERT. - TOP

PLOT SCALE : 1" = 1'

LAYOUT W ABUT DETAILS

DETAILS



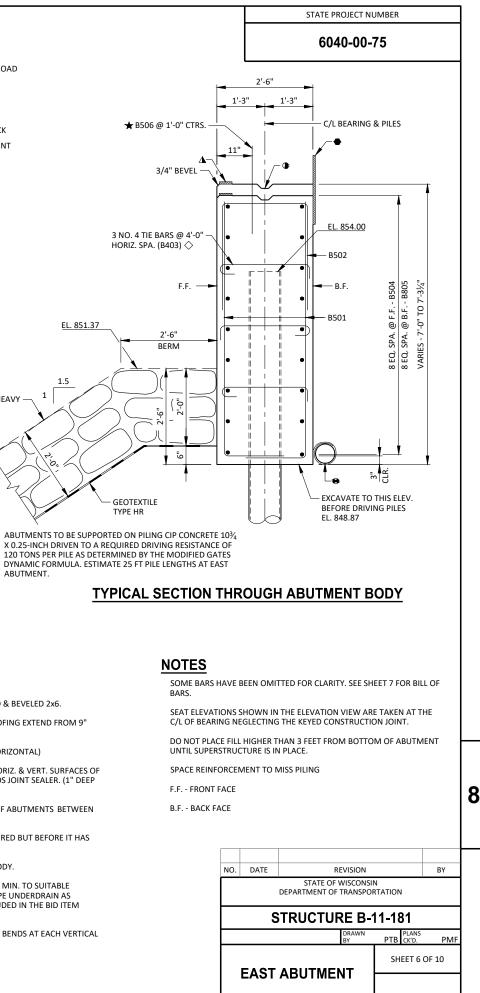
1.5

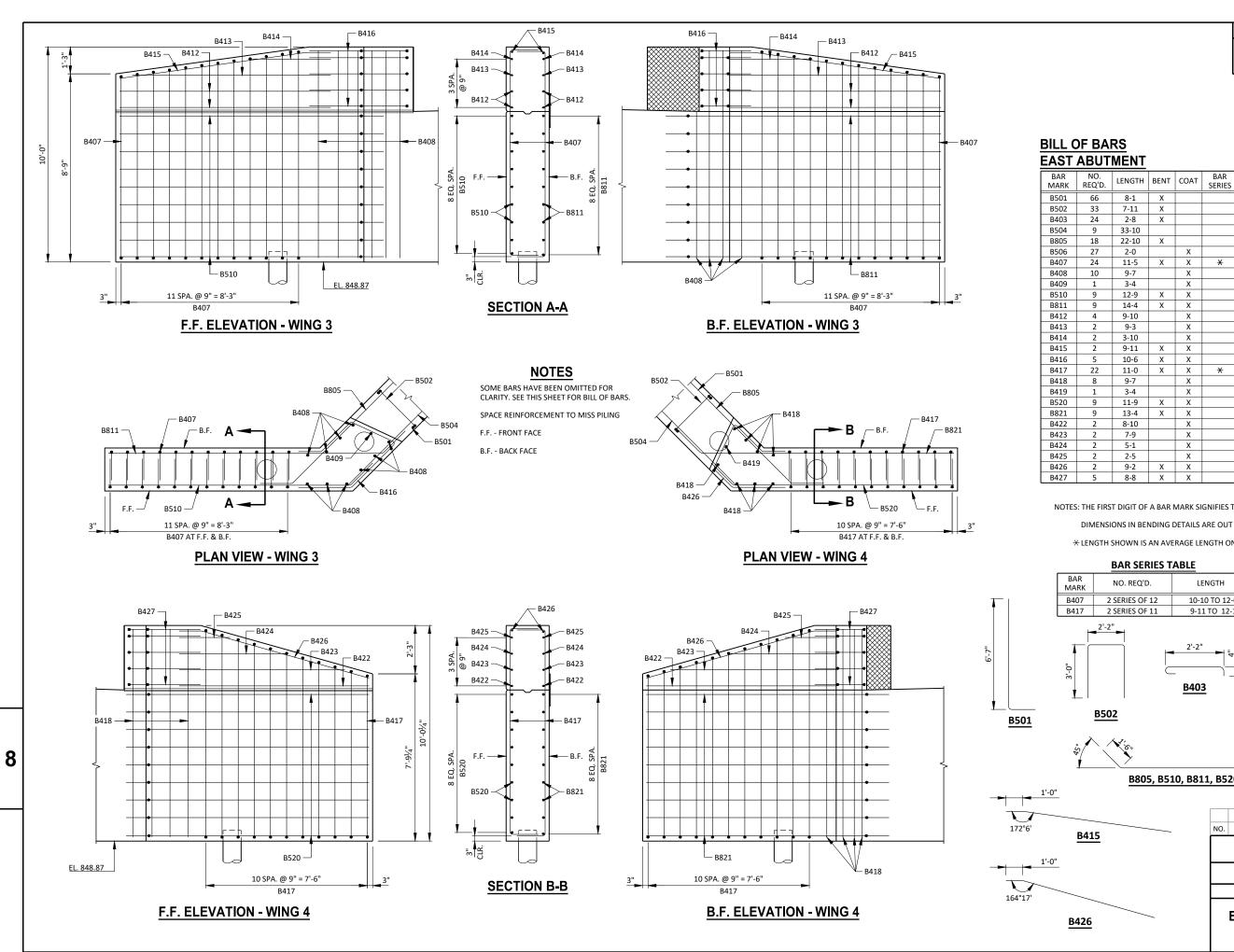
ABUTMENT.

KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BEVELED 2x6.

STA. 12+25.76

- 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
- ${\bf \Delta}_{\rm N}$ x 4" preformed filler, extend full length of abutments between edges of slab.
- ★ B506 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE IT HAS
- PILE SPACING MEASURED AT BASE OF ABUTMENT BODY.
- PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPED 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 2. RODENT SCREEN TO BE INCLUDED IN THE BID ITEM
- ♦ ALTERNATE THE POSITION OF THE 90° AND THE 180° BENDS AT EACH VERTICAL





FILE NAME : S:\PROJECTS\W11642 WISDOT - KOWALD ROAD BRIDGE B-11-0181 COLUMBIA CO\STRUCTURE\CAD FILES\FINALS\04_ABUTMENTS-KOWALD.DV PLOT DATE : 8/17/2023 2:56:22 PM PLOT BY : BOLAND, PATRICK

STATE PROJECT NUMBER

6040-00-75

_	24	2-8	X			TIE BA						
-	9	33-10	v				HORIZ F.F.					
+	18 27	22-10 2-0	Х	x			HORIZ B.F.	:				
+	27	11-5	х	X	×	-	3 - VERT F.F. &					
+	10	9-7		X			3 - VERT.					
	1	3-4		X			3 - VERT TOP					
	9	12-9	Х	х			3 - HORIZ F.F.					
	9	14-4	Х	х			3 - HORIZ B.F.					
T	4	9-10		Х			3 - HORIZ F.F. 8					
	2	9-3		X			3- HORIZ F.F. &					
+	2	3-10	N N	X			3- HORIZ F.F. &					
+	2	9-11	X	X			3 - HORIZ F.F. 8	ι в.г 10	14			
+	5 22	10-6 11-0	X X	X X	*		3 - HORIZ TOP 4 - VERT F.F. &	R F				
+	8	9-7	^	x	~		4 - VERT F.F. &	5.1.				
+	1	3-4		X			4 - VERT TOP					
	9	11-9	Х	X			4 - HORIZ F.F.					
	9	13-4	Х	х			4 - HORIZ B.F.					
	2	8-10		Х		WING	4 - HORIZ F.F. 8	k B.F.				
T	2	7-9		х			4- HORIZ F.F. &					
	2	5-1		X			4- HORIZ F.F. &					
_	2	2-5	N.	X			4- HORIZ F.F. &		20			
+	2	9-2	X	X X			4 - HORIZ F.F. 8	ι В. Η. – ГС	JF			
	Э	8-8	X	^		WING	4 - HORIZ TOP					
ES:	THE FIRS	T DIGIT OF	A BAR I	MARK SIG	NIFIES TH	HE BAR	SIZE.					
						-0.01-						
	DIIVIENSI	ONS IN BEI	NDINGL	FIAILS A		0 001	OF BAK.					
×	LENGTH	SHOWN IS	AN AVE	RAGE LEN	IGTH ON	LY. SEE	BAR SERIES TABLE	E FOR AC	TUAL LENGTH	IS.		
							1'_4"					
		BAR SEF	RIES T/	ABLE								
BAF		NO. REQ'D).	LEI	NGTH		·					
IARK							Ň D	-4"				
340		SERIES OF			0 TO 12-0			135	» ^۲ ^{110°} -	J.		
841	/ 2	SERIES OF	11	9-11	TO 12-1							
	2'-2								135° /	in the second		
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¥.			+	2'-2"		I			2'-6"			
					1				<u>B416</u>			
2			\subset		_ (ŀ						
ļ				B403	1				~ ~ ~			
1	_	I						10	70 10,	250		
	B50	2					1'-4"	\sim	$/$ $^{\prime \prime}$ \sim^{1}	35°	<u> </u>	
	050	<u> </u>					1'-4"	ŀ)110°			
						B	107 & B417	2	135°			
ĉ	<u>/ /</u>	X's.							2'-6"	_		
45	7	Š							B427		8	
1		\sim										
		B80	5, B51	0, B81	1, B520) & B8	21					
	_											
B415			NO.	DATE	RI	EVISION		BY				
					STATE OF V		N					
					1		DEPARTMENT OF					
					L							
					1	5	TRUCTUR	RE B-	11-181			
					—			DRAWN	PLANS			
-	_				L			BY	PTB CK'D.	PMF		
		<u> </u>			_				SHEET 7	OF 10		
B4	26	_	<u> </u>		I E	AST	ABUTMEN	T	SPIEET /	OF 10		
					1							

BILL OF BARS EAST ABUTMENT

1,580 LB (COATED) 2,290 LB (UNCOATED)

LOCATION

BODY - VERT. - F.F & B.F. BODY - VERT. - TOP

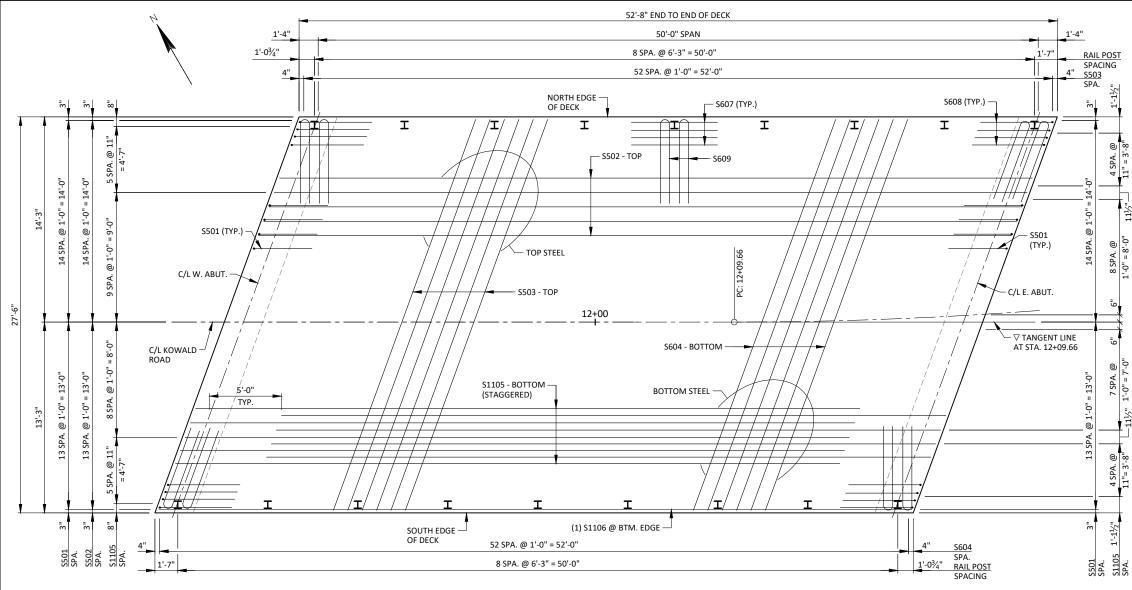
TIE BARS

PLOT SCALE : 1" = 1'

B426

LAYOUT : E ABUT DETAILS

DETAILS



PLAN

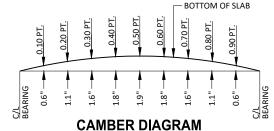
TOP OF DECK ELEVATIONS

	C/L W. ABUT.	0.10 PNT.	0.20 PNT.	0.30 PNT.	0.40 PNT.	0.50 PNT.	0.60 PNT.	0.70 PNT.	0.80 PNT.	0.90 PNT.	C/L E. ABUT.
N. EDGE	858.98	858.97	858.96	858.94	858.93	858.92	858.91	858.89	858.89	858.88	858.87
R/L	859.28	859.26	859.25	859.24	859.23	859.22	859.20	859.19	859.18	859.16	859.15
S. EDGE	859.02	859.01	859.00	858.99	858.98	858.96	858.95	858.94	858.93	858.91	858.90

SURVEY TOP OF DECK ELEVATIONS

	W. ABUT.	0.50 PT.	E. ABU
NORTH EDGE OF DECK			
TANGENT 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.



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.

NOTES

NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-11-181 PLANS PTB CK'D. PM SHEET 8 OF 10 SUPERSTRUCTURE

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 (+). SEE SHEET 1 FOR HORIZONTAL CURVE DATA MEASURED ALONG BRIDGE REFERENCE LINE

6040-00-75

BILL OF BARS SUPERSTRUCTURE

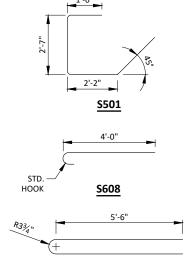
21,400 LB (COATED)

BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	LOCATION
S501	56	8-6	Х	X	ENDS OF DECK
S502	28	52-3		X	SLAB - TOP - LONGIT.
S503	59	28-10		X	SLAB - TOP - TRANS. & AT ABUT.
S604	53	28-10		X	SLAB - BOTTOM - TRANS.
S1105	55	46-2		Х	SLAB - BOTTOM - LONGIT.
S1106	2	52-3		X	SLAB - BOTTOM - LONGIT EDGES
S607	56	6-0		Х	RAIL POSTS - INTERIOR
S608	16	4-8	х	Х	RAIL POSTS - CORNERS
S609	36	12-0	Х	X	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.

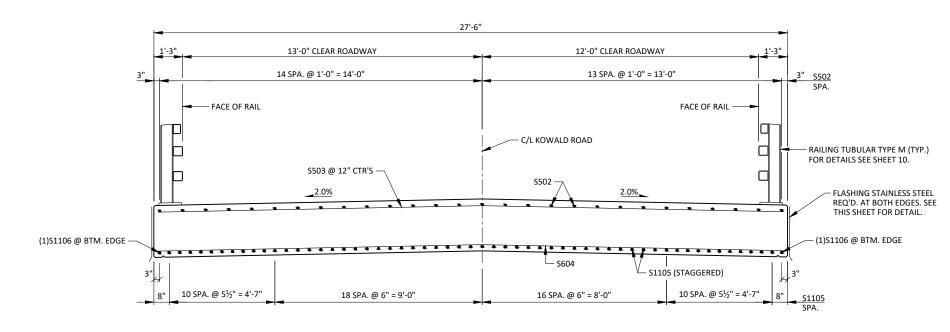
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

SOME BARS HAVE BEEN OMITTED FOR CLARITY.

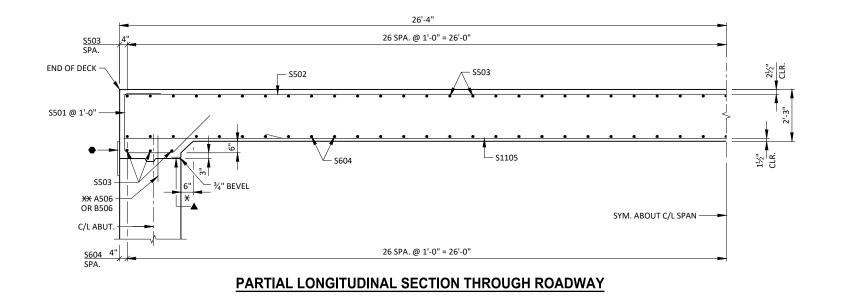




LAYOUT : SUPERSTRUCTUR







THICKNESS AB

NOTES:

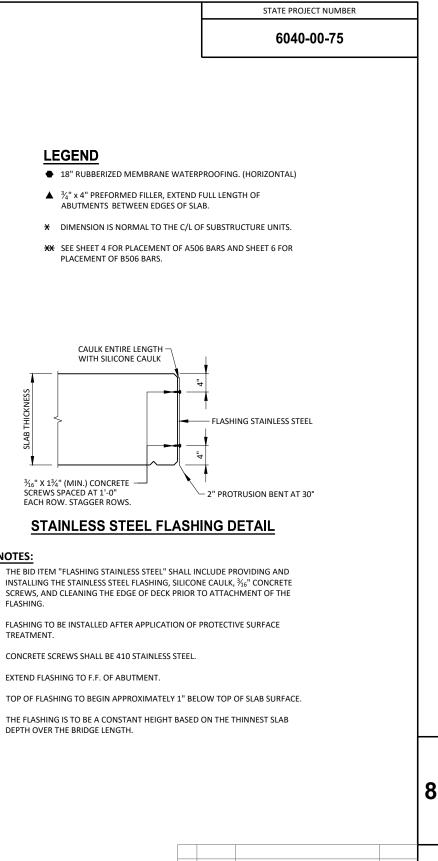
FLASHING.

TREATMENT.

8

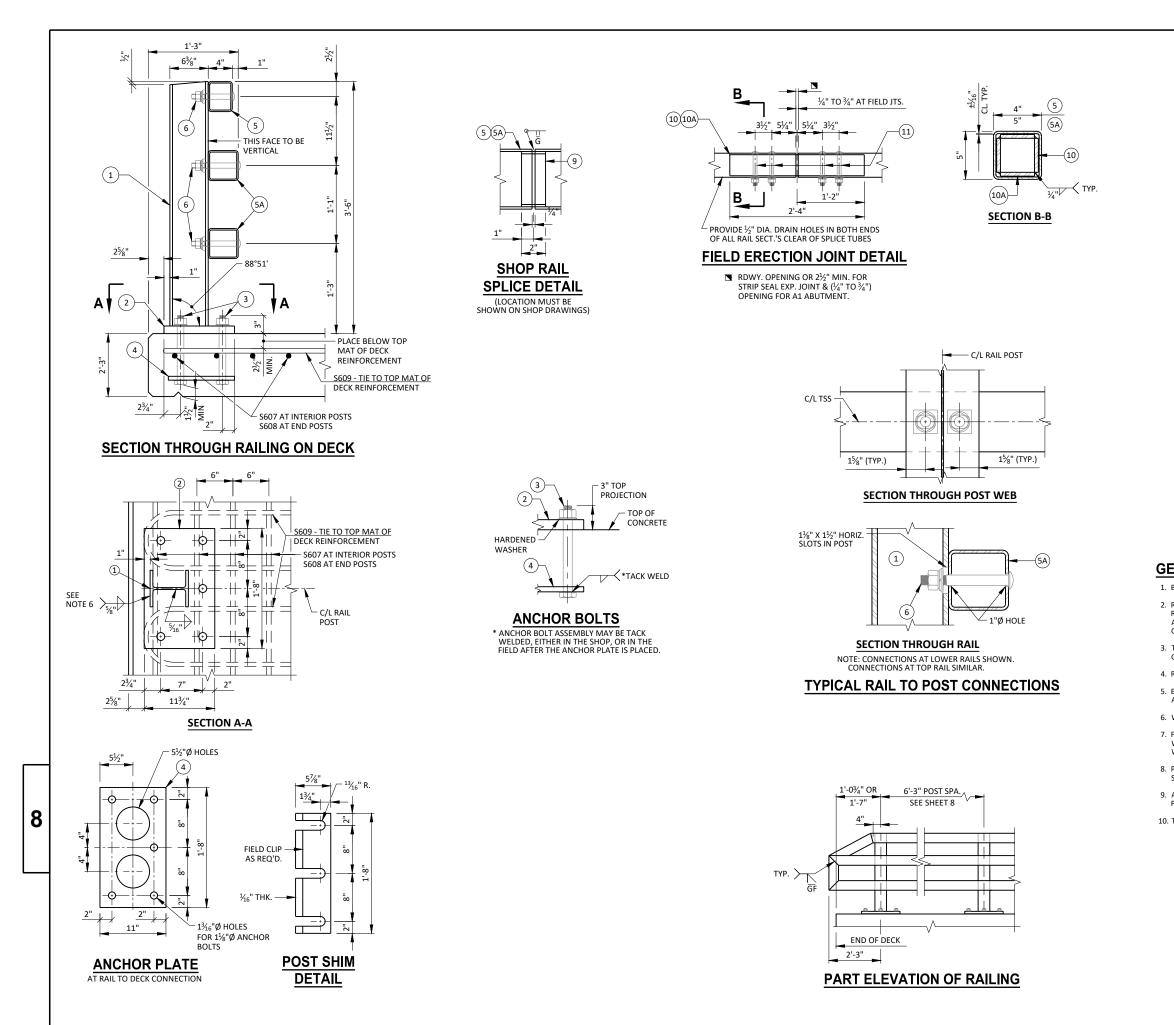
FILE NAME :

S:\PROJECTS\W11642 WISDOT - KOWALD ROAD BRIDGE B-11-0181 COLUMBIA CO\STRUCTURE\CAD FILES\FINALS\08_SUPERSTRUCTURE-KOWALD.DW



NO.	BY									
		STATE OF DEPARTMENT O	F WISCONSI F TRANSPOR	-						
STRUCTURE B-11-181										
			DRAWN BY	PLANS PTB CK'D.	PMF					
S	UPER	STRUCT	SHEET 9	OF 10						
	D									

LAYOUT SUPER DETAILS



STATE PROJECT NUMBER

6040-00-75

LEGEND

- (1) W6x25 WITH 1½" x 1½" 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.
- (2) PLATE $1\!\!/_4"x113\!\!/_4"x1'-8"$ with $1\!\!/_{16}"$ 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. USE 1'-9" LONG AT ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG. USE 10%" LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR CONSTRUCTABILITY.)
- (5) TSS 5x4x0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- $\overbrace{(5A)}$ TSS 5x5x0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- 6
- (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) %"x2%"x2'-4" PLATE USED IN NO. 5, %"x3%"x2'-4" PLATE USED IN NO. 5A. 2 PER RAIL.
- (1) ⁷/₈" 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.
- 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).

NO.	DATE			BY					
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION									
STRUCTURE B-11-181									
			DRAWN BY	PTB 0	PLANS CK'D.	PMF			
TUBULAR RAILING TYPE M				SHEE	ET 10 O	F 10			

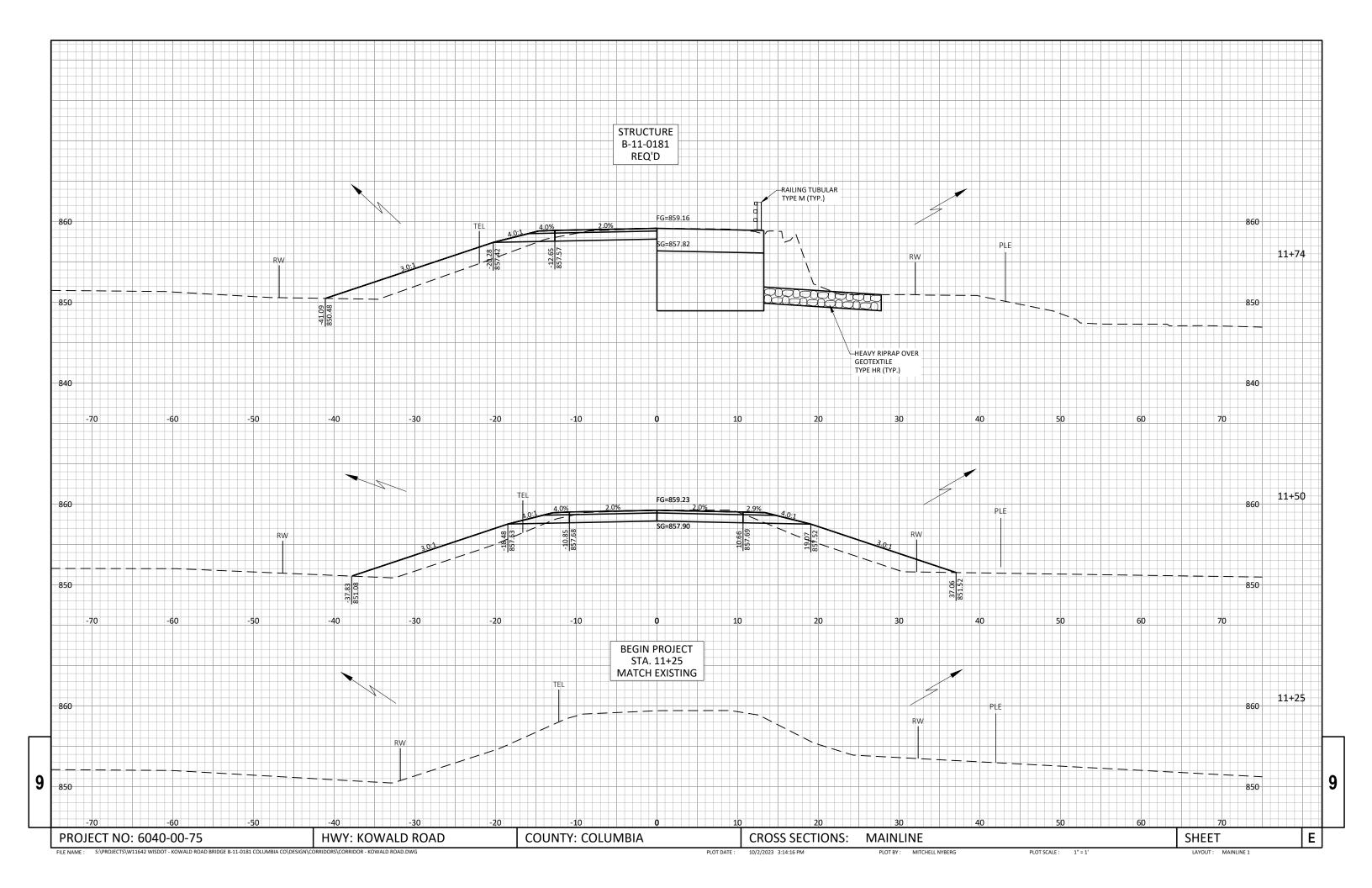
LAYOUT : LAYOUT (WITHOUT BEAM GUARD

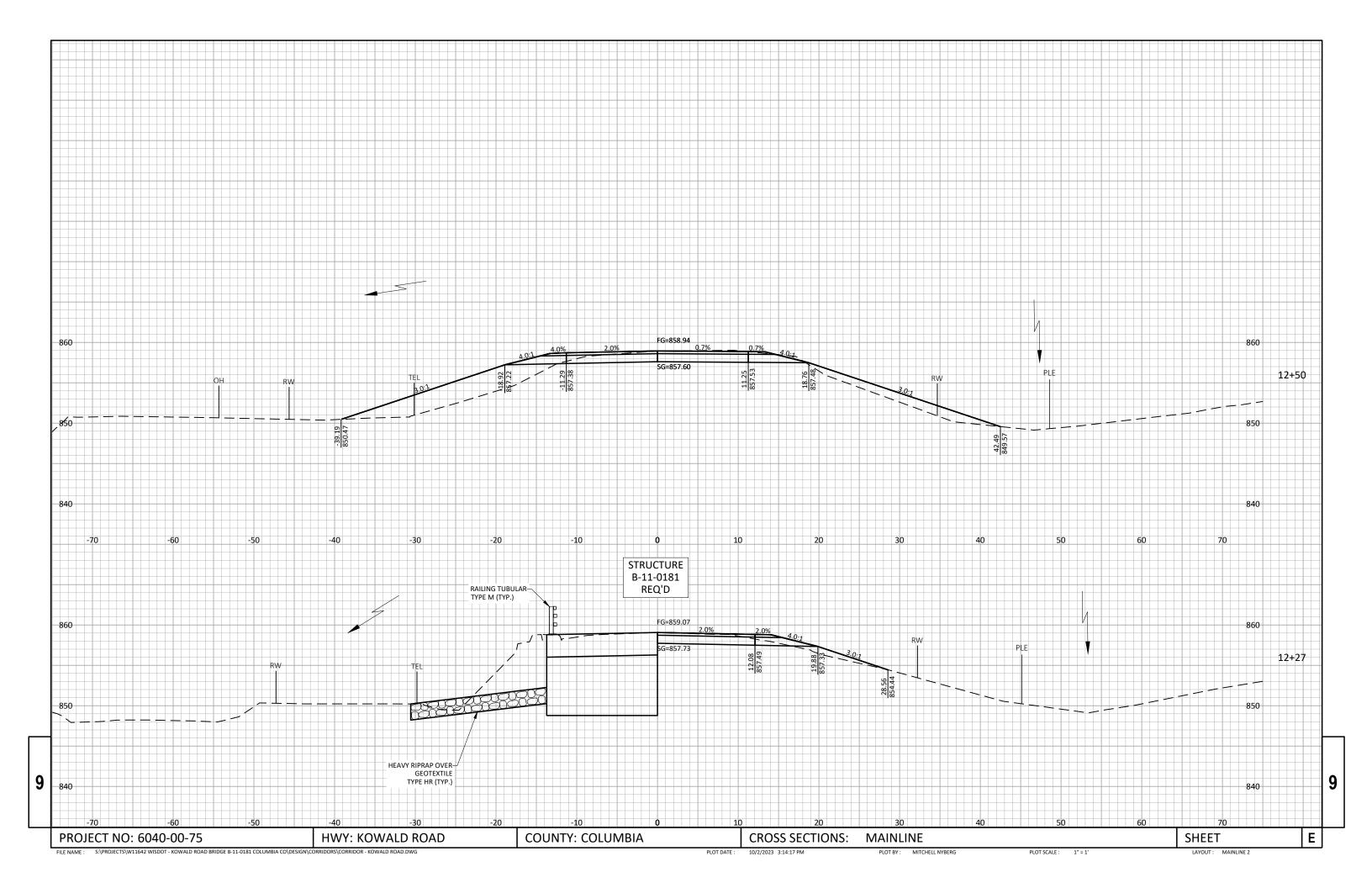
CUT	FILL	CUT NOTE 1	FILL NOTE 2	FILL (25%) NOTE 3	CUT 1.00 NOTE 1	FILL	FILL (25%) NOTE 3	MASS ORDINATE NOTE 4
0	0	15	35	44	15	35	44	-29
32	75	28	67	83	43	102	127	-83
32	75	0	0	0	43	102	127	-83
34	76	29	65	81	72	167	208	-136
34	76	29	67	83	101	234	291	-190
29	67	26	58	73	127	292	364	-237
29	58	28	33	42	155	325	406	-250
33	14	30	9	11	185	334	417	-232
32	6	15	3	3	200	336	420	-220
0	0	0	0	0	200	336	420	-220
	0 32 32 34 34 29 29 33 32	0 0 32 75 32 75 34 76 34 76 29 67 29 58 33 14 32 6	CUT FILL NOTE 1 0 0 15 32 75 28 32 75 0 34 76 29 34 76 29 29 67 26 29 58 28 33 14 30 32 6 15	CUT FILL NOTE 1 NOTE 2 0 0 15 35 32 75 28 67 32 75 0 0 34 76 29 65 34 76 29 67 29 67 26 58 29 58 28 33 33 14 30 9 32 6 15 3	CUT FILL NOTE 1 NOTE 2 NOTE 3 0 0 15 35 44 32 75 28 67 83 32 75 0 0 0 34 76 29 65 81 34 76 29 67 83 29 67 26 58 73 29 58 28 33 42 33 14 30 9 11 32 6 15 3 3	CUT FILL NOTE 1 NOTE 2 NOTE 3 NOTE 1 0 0 15 35 44 15 32 75 28 67 83 43 32 75 0 0 0 43 34 76 29 65 81 72 34 76 29 67 83 101 29 67 28 33 127 29 58 28 33 42 155 33 14 30 9 11 185 32 6 15 3 3 200	CUT FILL NOTE 1 NOTE 2 NOTE 3 NOTE 1 FILL 0 0 15 35 44 15 35 32 75 28 67 83 43 102 32 75 0 0 0 43 102 34 76 29 65 81 72 167 34 76 29 67 83 101 234 29 67 26 58 73 127 292 29 58 28 33 42 155 325 33 14 30 9 11 185 334 32 6 15 3 3 200 336	CUT FILL NOTE 1 NOTE 2 NOTE 3 NOTE 1 FILL NOTE 3 0 0 15 35 44 15 35 44 32 75 28 67 83 43 102 127 32 75 0 0 0 43 102 127 34 76 29 65 81 72 167 208 34 76 29 67 83 101 234 291 29 67 83 101 234 291 294 29 67 83 101 234 291 294<

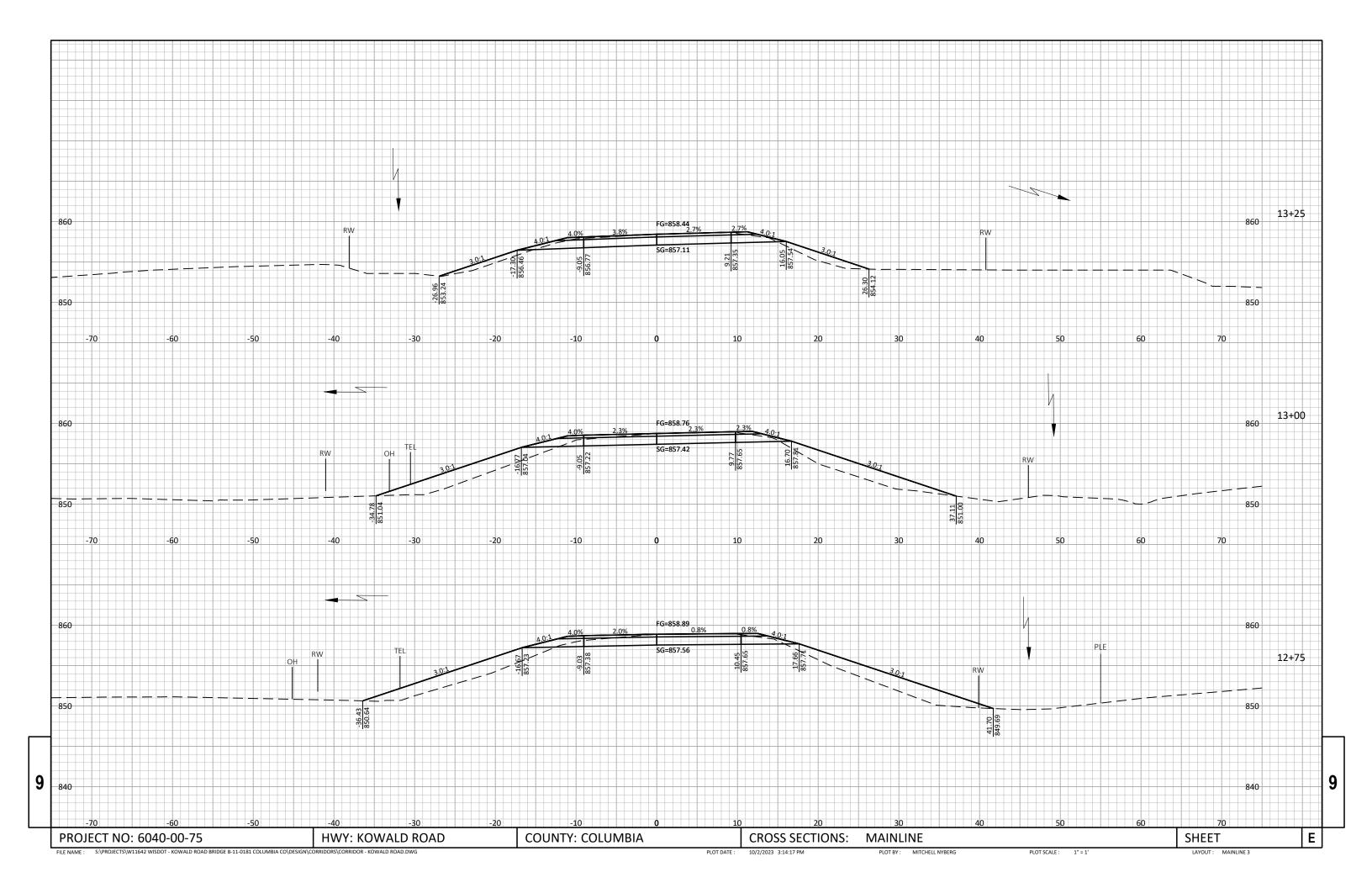
NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
3 - FILL 25%	(UNEXPANDED FILL)*1.25
4 - MASS ORDINATE	CUT + ROCK (10%) + REDUCED MARSH (60%) - FILL (25%)

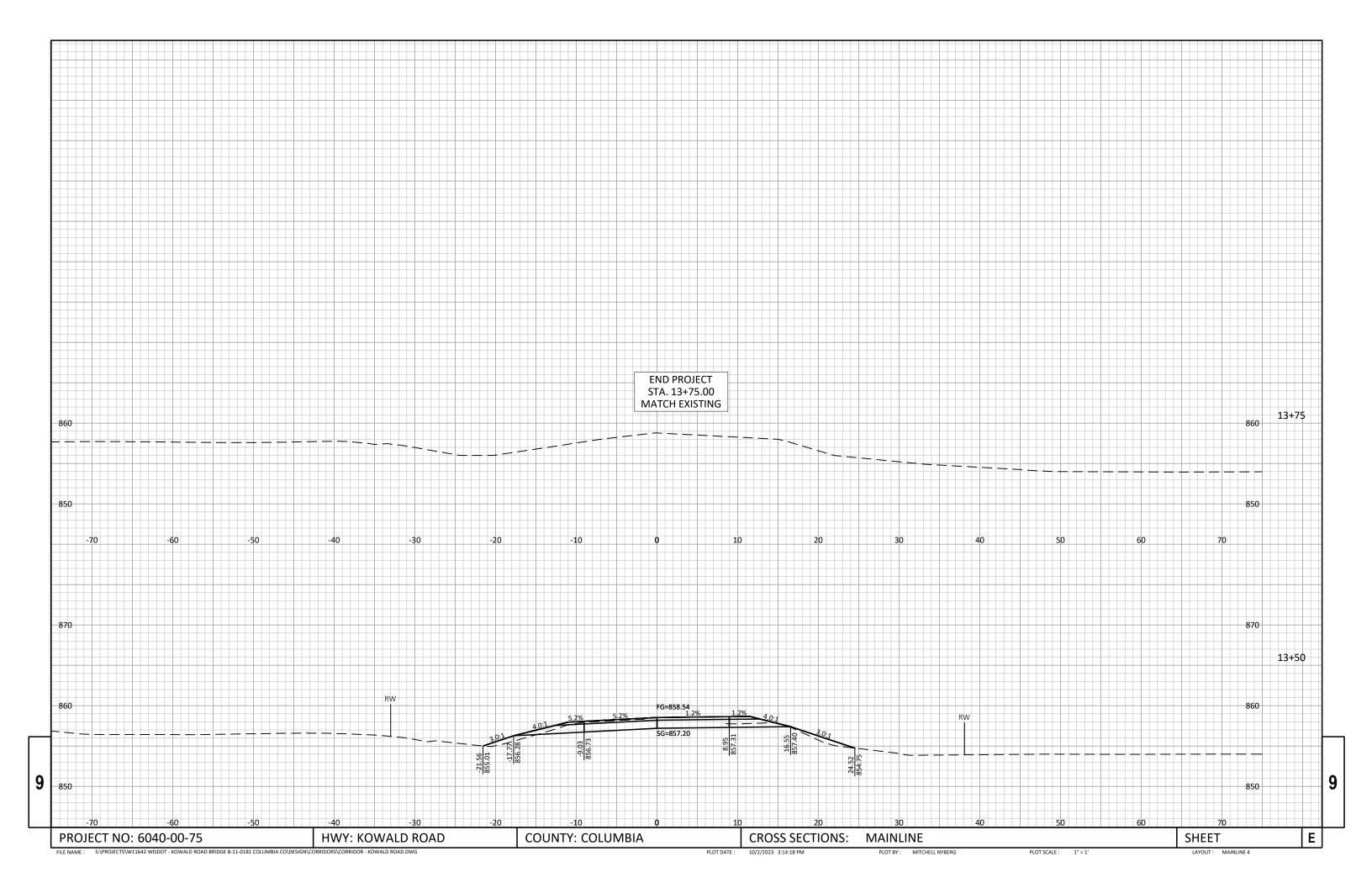
 PROJECT NO: 6040-00-75	HWY: KOWALD ROAD	COUNTY: COLUMBIA	EARTHWORK		
SUS VILLES CONDUCTS WILL A CAR WILL DO AD DRIDGE D 44 0404 COULDADIA CONDER OUT		01 OT 0 175	7/10/2020 1111 01 011	81 8 F 81	

	SHEET	Ε	
1" = 1'	LAYOUT : EARTHWORK		

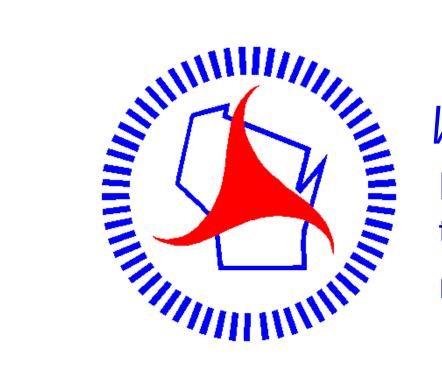








Notes



Wisconsin Department of Transportation

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