

FILE NAME : G:\2020-PROJ\20258230\C3D\SHEETSPLAN\010101_TI.DWG

PLOT DATE : 7/28/2022 9:08 AM

PLOT BY : JACOB FRIBERG

PLOT NAME :

LIST OF STANDARD ABBREVIATIONS

LT.

LEFT

2

ABUT	ABUTMENT
AC	ACRES
AGG	AGGREGATE
AH	AHEAD
ADT	AVERAGE DAILY TRAFFIC
AVG.	AVERAGE
ASPH	ASPHALTIC
BK.	BACK
BM	BENCHMARK
Δ	CENTRAL ANGLE OR DELTA
€, C/L	CENTERLINE
C & G	CURB AND GUTTER
CABC	CRUSHED AGGREGATE
	BASE COURSE
CONC.	CONCRETE
COR	CORNER
CORR	CORRUGATED
CSCP	CORRUGATED STEEL
	CULVERT PIPE
CSPA	CORRUGATED STEEL
	PIPE ARCH
CTH	COUNTY TRUNK HIGHWAY
CP.	CULVERT PIPE
CY	CUBIC YARD
CWT. DIA	HUNDREDWEIGHT DIAMETER
DIA	DEGREE OF CURVE
DHV	DESIGN HOURLY VOLUME
DWY	DRIVEWAY
EBS	EXC. BELOW SUB GRADE
ELEV., EL	ELEVATION
ELEC.	ELECTRIC
EXC	EXCAVATION
EXIST	EXISTING
E FE	EAST FIELD ENTRANCE
FF.	FACE TO FACE
FL, F/L	FLOW LINE
FS	FULL SUPERELEVATION
G	GARAGE
GN	GRID NORTH
Н	HOUSE
HYD	HYDRANT
I	INTERSECTION ANGLE
INTERS	INTERSECTION
INV.	INVERT
IP	IRON PIN OR PIPE
LC	LONG CHORD OF CURVE
LF	LINEAR FOOT
LHF	LEFT HAND FORWARD

LHF LENGTH OF CURVE L

LT.	LEFT
LS	LUMP SUM
MH	MANHOLE
N	NORTH
	NORMAL CROWN
	PAVEMENT
PC	POINT OF CURVATURE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PP	POWER POLE
PT	POINT OF TANGENCY
R	RANGE , RADIUS
RCCP	REINFORCED CONCRETE
	CULVERT PIPE
RD	ROAD
REBAR	REINFORCEMENT BAR
REQD	REQUIRED
RDWY	ROADWAY
RHF	RIGHT HAND FORWARD
RL, R/L	REFERENCE LINE
RR	RAILROAD
	RIGHT
	RIGHT-OF-WAY
	SOUTH
	SANITARY SEWER
	STANDARD DETAIL DRAWING
	SUPER ELEVATION
	SQUARE FEET
	SHOULDER
	SPECIFICATIONS SQUARE
	STORM SEWER
	SQUARE YARD
	STATE TRUNK HIGHWAY
ST.	STREET
STA.	STATION
SW	SIDEWALK
Т	TANGENT
	TOP OF CURB
Τ <u>[</u> , Τ/L	TRANSIT LINE
TEL	TELEPHONE
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
USH	UNITED STATES HIGHWAY
	UNDERGROUND
	DESIGN SPEED
VAR.	VARIABLE
	LS MH N NC PAVT PC PE PI PL PP PT R RCCP RC REBAR REQD RDWY RL, R/L RR RL, R/L RR RT. R/W S SAN S SDD SE SSHLDR SPECS SQ. SS, SSHLDR SF. STA. STA. SW T TC TC, T/L TEIMP TLE TYP

VERT

YD

VERTICAL

YARD

UTILITY CONTACTS

COMMUNICATIONS

MARK MAYER

LAKELAND COMMUNICATIONS

MILLTOWN, WI 54858

PHONE: (715) 825-2171

825 INNOVATION AVE., P.O. BOX 40

EMAIL: markm@lakelandteam.com

ELECTRIC

NORTHWESTERN WISCONSIN ELECTRIC COMPANY DENISE STRAIT 104 SOUTH PINE STREET, P.O. BOX 9 GRANTSBURG, WI 54840 PHONE: (715) 463-1978 EMAIL: denise@nweco.com

ALL UTILITIES LISTED ARE MEMBERS OF DIGGERS HOTLINE



OTHER CONTACTS

DESIGN CONSULTANT

COOPER ENGINEERING JACOB FRIBERG 2600 COLLEGE DRIVE RICE LAKE, WI 54868 PHONE: (715) 234-7008 EMAIL: jfriberg@cooperengineering.net

POLK COUNTY

HIGHWAY COMMISSIONER EMIL "MOE" NORBY 900 PHEASANT LANE, PO BOX 248 BALSAM LAKE, WI 54810 PHONE: (715) 485-8723 EMAIL: emil.norby@co.polk.wi.us

WDNR REGIONAL CONTACT

WDNR/WISDOT LIAISON AMY CRONK 810 W. MAPLE STREET SPOONER, WI 54801 PHONE: (715) 635-4229 EMAIL: amy.cronk@wisconsin.gov

GENERAL NOTES:

ACCESS TO ALL RESIDENCES & SIDE ROADS SHALL BE MAINTAINED DURING CONSTRUCTION.

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

1	HYDROLOGIC SOIL GROUP									
-		A			В			С		
	SL	_OPE RA	NGE (%)	SL	OPE RA	NGE (%)	SL	OPE RA	NGE (%)	
LAND USE:	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	
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36	
PAVEMENT:										
ASPHALT			.7095							
CONCRETE			.8095							
BRICK			.7080							
DRIVES, WALKS			.7585							
ROOFS			.7595							
GRAVEL ROADS, SHO	OULDEF	۱S	.4060							

PROJECT NO:	8857-00-70	HWY: CTH B	COUNTY: POLK			GENERAL NOTES		
FILE NAME : G:\2020-Pf	ROJ\20258230\C3D\SHEETSPLAN\020101_GN.DWG			PLOT DATE :	2/18/2022 1:05 PM	PLOT BY :	JACOB FRIBERG	PLOT NAME :

LAYOUT NAME - GENERAL NOTES

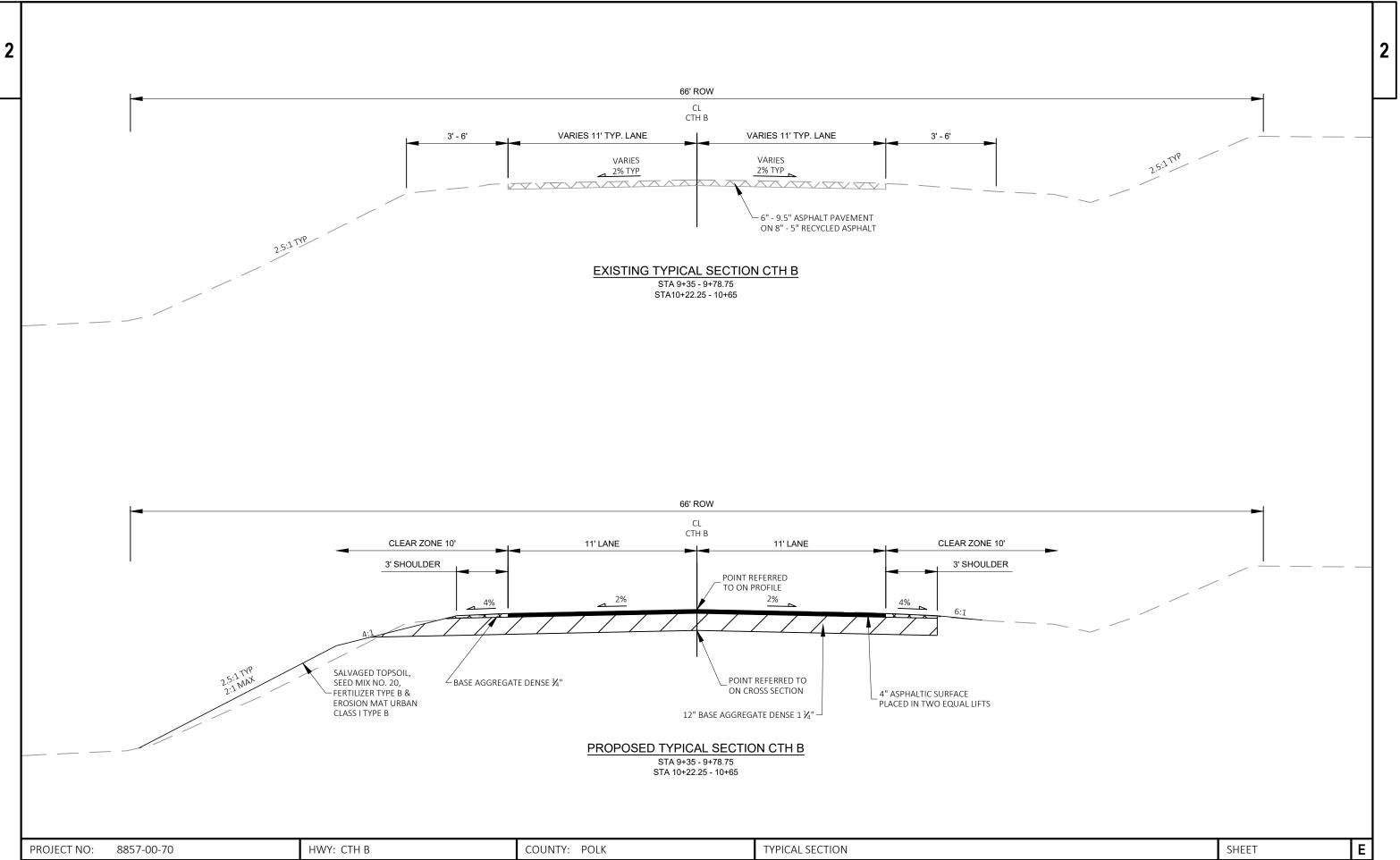
NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

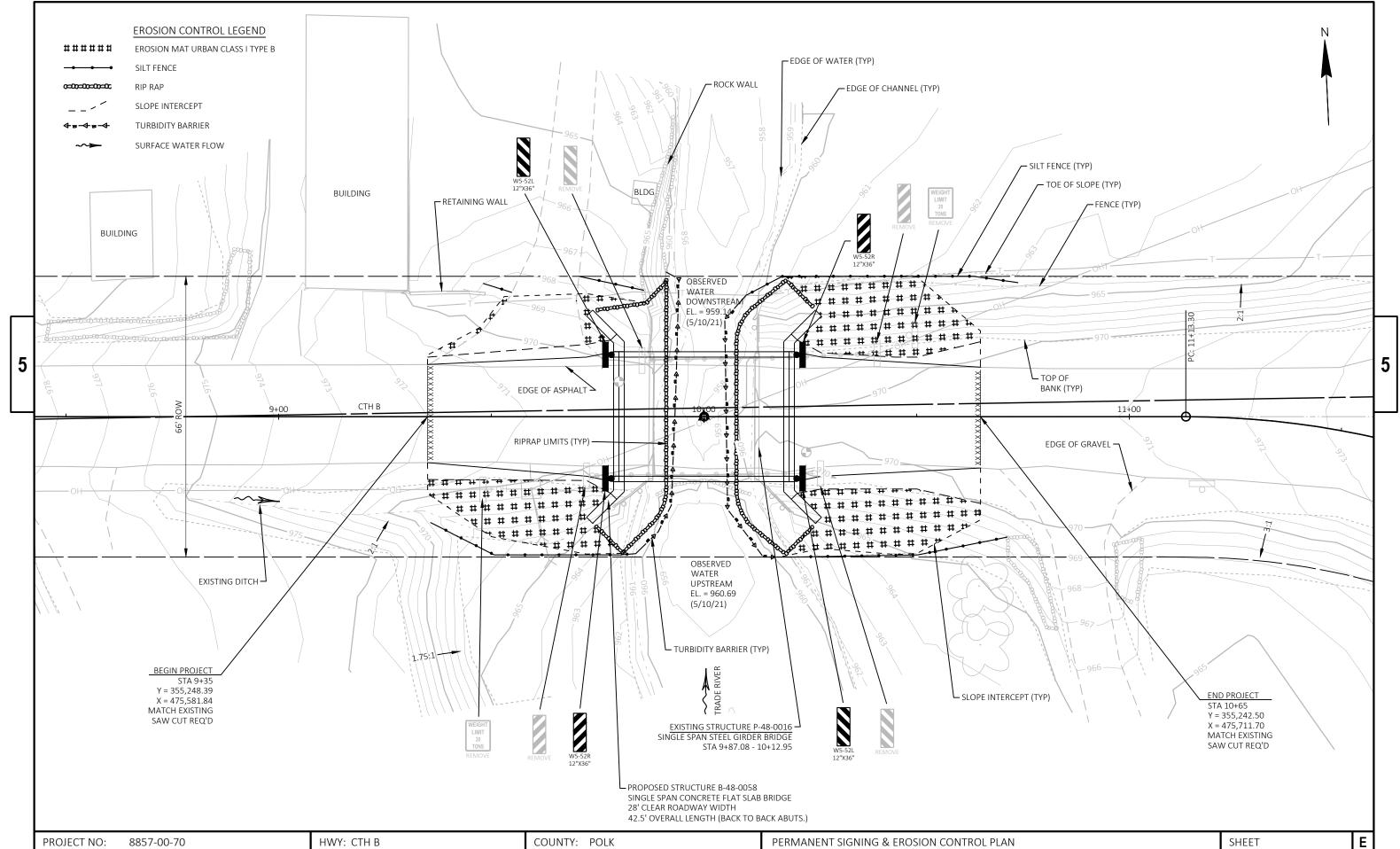
CTH B WILL BE CLOSED DURING CONSTRUCTION AND A SIGNED DETOUR ROUTE WILL BE MARKED.

RUNOFF COEFFICIENT TABLE

Ε

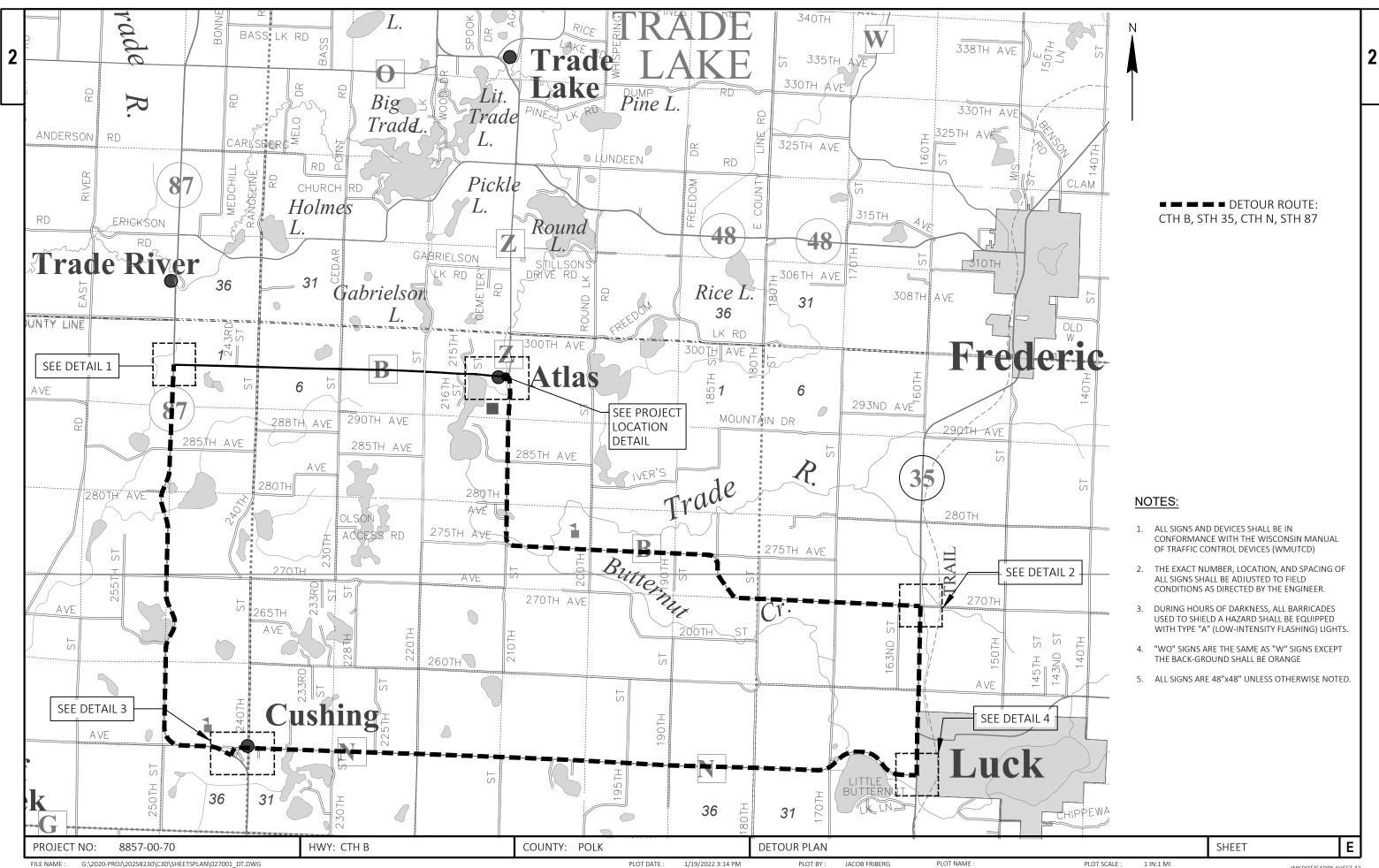


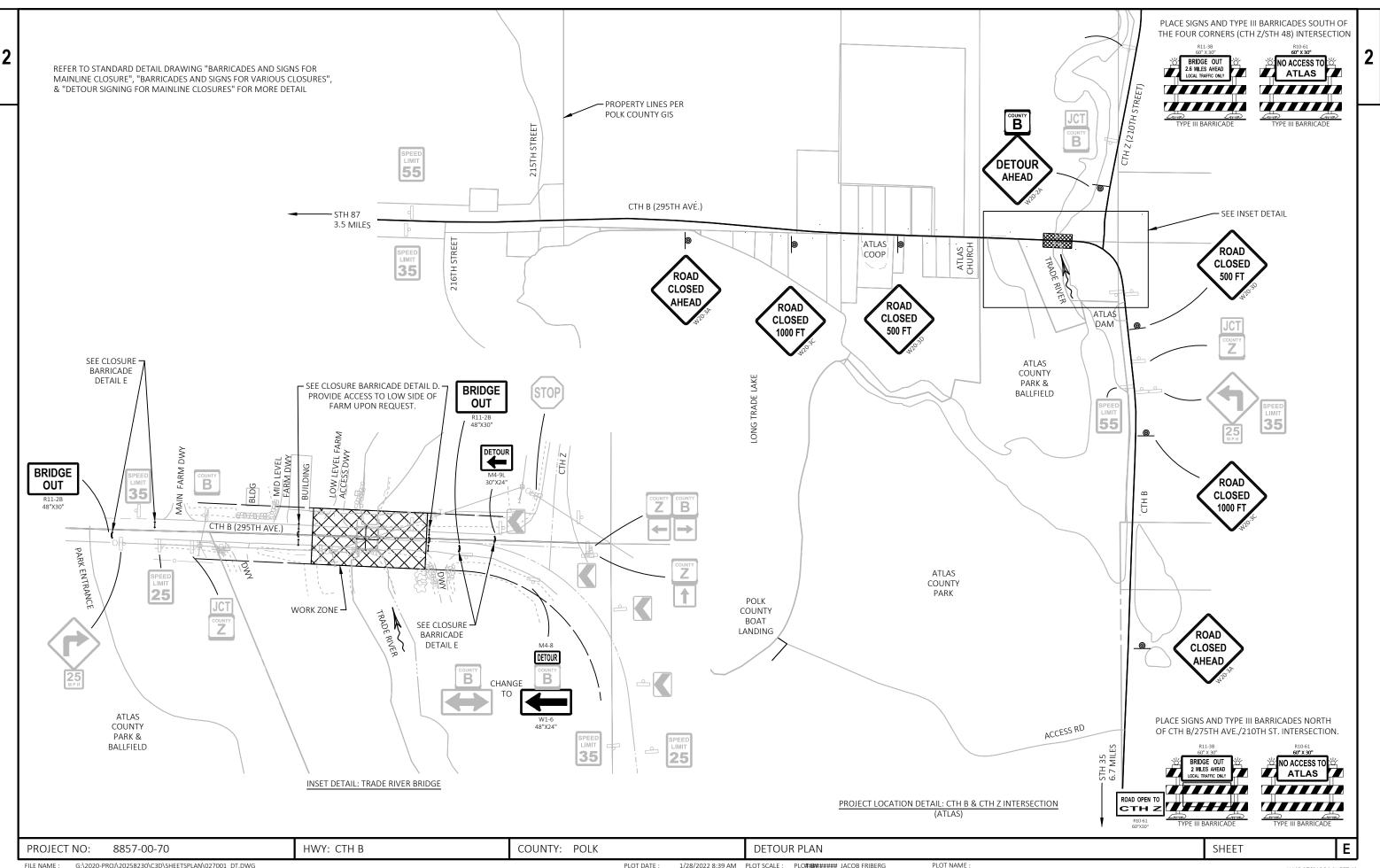
FILE NAME : G:\2020-PROJ\20258230\C3D\SHEETSPLAN\020301_TS.DWG LAYOUT NAME - TYPICAL SECTION PLOT DATE : 7/28/2022 11:34 AM PLOT BY : JACOB FRIBERG PLOT NAME :



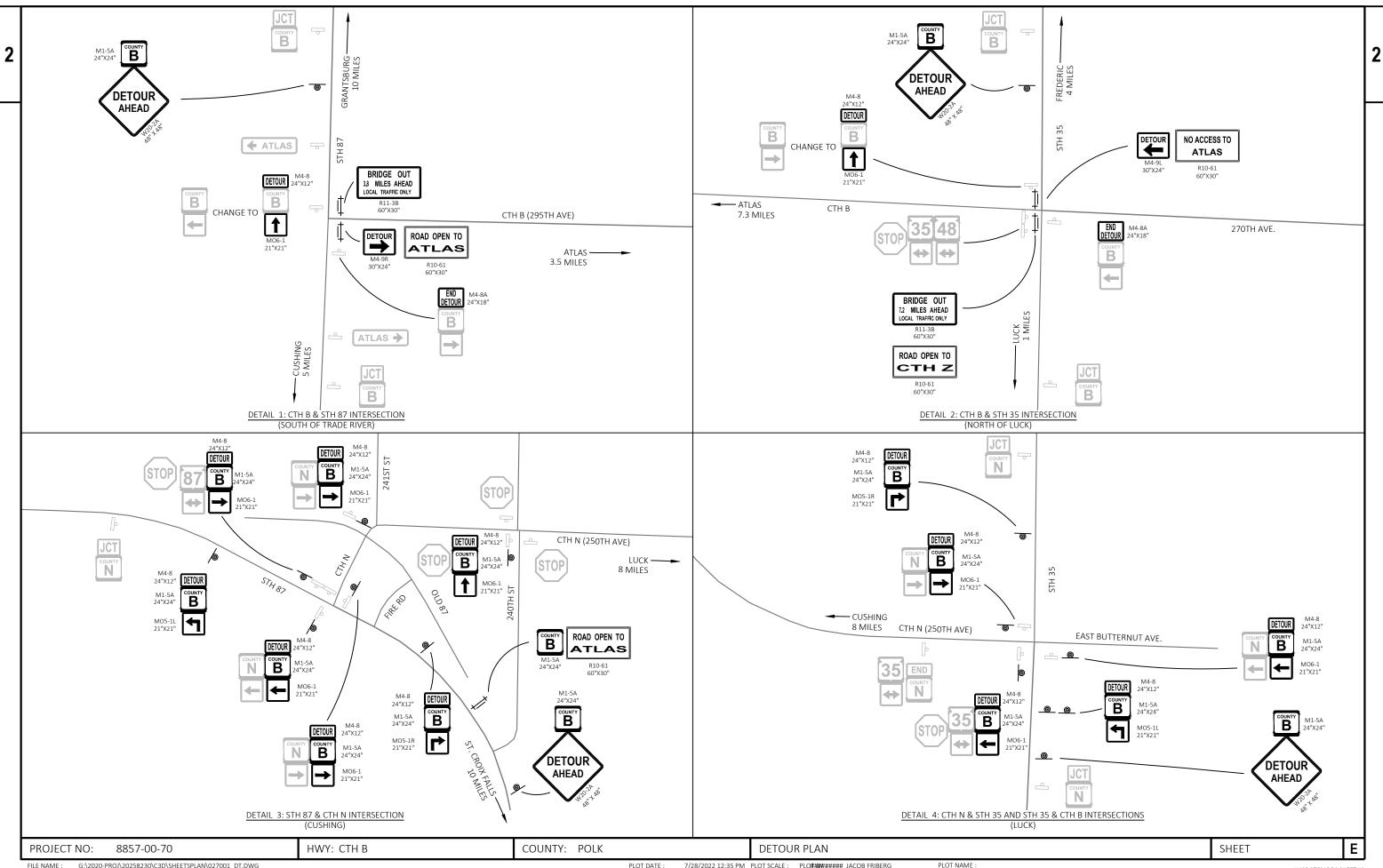
FILE NAME : G:\2020-PROJ\20258230\C3D\SHEETSPLAN\021601_CM.DWG LAYOUT NAME - CONTOUR MAP PLOT DATE : 7/28/2022 12:09 PM

PLOT BY : JACOB FRIBERG PLOT NAME :





WISDOT/CADDS SHEET 42



FILE NAME : G:\2020-PROJ\20258230\C3D\SHEETSPLAN\027001 DT.DWG LAYOUT NAME - DETOUR DETAILS

PLOT DATE :

WISDOT/CADDS SHEET 42

Estimate Of Quantities

					8857-00-70	
Line	Item	Item Description	Unit	Total	Qty	
002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-48-16	EACH	1.000	1.000	
004	205.0100	Excavation Common	CY	150.000	150.000	
006	206.1001	Excavation for Structures Bridges (structure) 01. B-48-58	EACH	1.000	1.000	
800	210.1500	Backfill Structure Type A	TON	320.000	320.000	
010	213.0100	Finishing Roadway (project) 01. 8857-00-70	EACH	1.000	1.000	
012	305.0110	Base Aggregate Dense 3/4-Inch	TON	25.000	25.000	
014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	230.000	230.000	
016	455.0605	Tack Coat	GAL	20.000	20.000	
018	465.0105	Asphaltic Surface	TON	60.000	60.000	
020	502.0100	Concrete Masonry Bridges	CY	146.000	146.000	
022	502.3200	Protective Surface Treatment	SY	197.000	197.000	
024	505.0400	Bar Steel Reinforcement HS Structures	LB	4,420.000	4,420.000	
026	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	19,840.000	19,840.000	
028	513.4061	Railing Tubular Type M	LF	90.000	90.000	
030	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000	
032	550.2106	Piling CIP Concrete 10 3/4 X 0.365-Inch	LF	525.000	525.000	
034	606.0300	Riprap Heavy	CY	100.000	100.000	
036	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	150.000	150.000	
038	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8857-00-70	EACH	1.000	1.000	
040	619.1000	Mobilization	EACH	1.000	1.000	
042	624.0100	Water	MGAL	3.000	3.000	
)044	625.0500	Salvaged Topsoil	SY	275.000	275.000	
046	628.1504	Silt Fence	LF	225.000	225.000	
048	628.1520	Silt Fence Maintenance	LF	225.000	225.000	
050	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
052	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
054	628.2008	Erosion Mat Urban Class I Type B	SY	275.000	275.000	
056	628.6005	Turbidity Barriers	SY	100.000	100.000	
058	629.0210	Fertilizer Type B	CWT	0.200	0.200	
060	630.0120	Seeding Mixture No. 20	LB	10.000	10.000	
062	630.0500	Seed Water	MGAL	10.000	10.000	
064	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0066	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0068	638.2602	Removing Signs Type II	EACH	6.000	6.000	
070	638.3000	Removing Small Sign Supports	EACH	6.000	6.000	
072	642.5001	Field Office Type B	EACH	1.000	1.000	
074	643.0420	Traffic Control Barricades Type III	DAY	1,140.000	1,140.000	
076	643.0705	Traffic Control Warning Lights Type A	DAY	2,040.000	2,040.000	
078	643.0900	Traffic Control Signs	DAY	4,740.000	4,740.000	
080	643.5000	Traffic Control	EACH	1.000	1.000	
082	645.0111	Geotextile Type DF Schedule A	SY	60.000	60.000	
084	645.0120	Geotextile Type HR	SY	150.000	150.000	
086	646.1020	Marking Line Epoxy 4-Inch	LF	520.000	520.000	
088	650.4500	Construction Staking Subgrade	LF	87.000	87.000	
090	650.5000	Construction Staking Base	LF	87.000	87.000	
092	650.6501	Construction Staking Structure Layout (structure) 01. B-48-58	EACH	1.000	1.000	
094	650.9911	Construction Staking Supplemental Control (project) 01. 8857-00-70	EACH	1.000	1.000	
096	650.9920	Construction Staking Slope Stakes	LF	87.000	87.000	
098	690.0150	Sawing Asphalt	LF	47.000	47.000	

09/28/2022 06:10:52 Page 1 3

	Estimate Of Quantities								
					8857-00-70				
Line	Item	Item Description	Unit	Total	Qty				
0100	715.0502	Incentive Strength Concrete Structures	DOL	1,460.000	1,460.000				
0102	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000				
0104	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000				
0106	SPV.0090	Special 01. Flashing Stainless Steel	LF	75.000	75.000				

09/28/2022 06:10:52

Page 2

$\frac{1000000007}{100000007} \frac{100000}{100000} \frac{100000}{100000} \frac{100000}{100000} \frac{100000}{100000} \frac{1000000}{1000000} \frac{1000000}{10000000000000000000000000000$		SALVAGED/ UNUSEABLE DN PAVEMENT AVAILABLE UNEXPAND MATERIAL MATERIAL FILL 0 CY CY CY 25 45 8 25 55 24 50 100 32	EXPANDED FILL MAS DED (FACTOR = ORDIN, 1.25) +/- CY CY 10 35 30 25 40 60	CATEGORY 0010 0010	STATION TO STAT 9+35 - 9+75 10+21 - 10+6	I <u>on side</u> Lt/rt	4	_	DENSE 3/4-INCH 305.0110 TON 12 13		TACK COAT	ASPHALTIC SURFACE 465.0105 TON 30 30 60	WATER	
URBIDITY BARRIER	SALVAGED UR TOPSOIL 625.0500 6 CATEGORY LOCATION SY 0010 B-48-0058 SW 30 0010 B-48-0058 SW 60 0010 B-48-0058 F 60 0010 B-48-0058 SE 60 0010 B-48-0058 SE 60 0010 B-48-0058 SE 60 0010 UNDISTRIBUTED 55 55	BAN CLASS I FERTILIZER MIX NO. TYPE B TYPE B 20 SI 628.2008 629.0210 630.0120 <th>630.0500 MGAL 2 2 2 2 2 2 2 2</th> <th></th> <th></th> <th></th> <th>0010 0010 0010 0010</th> <th>D B-48- D B-48- D B-48- D B-48- D B-48- D UND</th> <th>- 0CATION -0058 NW -0058 SW -0058 NE -0058 SE ISTRIBUTED =</th> <th>SILT FENCE N 628.1504 LF 15 50 65 50 45</th> <th>MAINTENANC 628.1520 LF 15 50 65 50 45</th> <th><u>CE</u></th> <th></th> <th></th>	630.0500 MGAL 2 2 2 2 2 2 2 2				0010 0010 0010 0010	D B-48- D B-48- D B-48- D B-48- D B-48- D UND	- 0CATION -0058 NW -0058 SW -0058 NE -0058 SE ISTRIBUTED =	SILT FENCE N 628.1504 LF 15 50 65 50 45	MAINTENANC 628.1520 LF 15 50 65 50 45	<u>CE</u>		
	0010 B-48-0058 W 0010 B-48-0058 EA	BARRIER 628.6005 I SY REMARKS EST 50 75' LONG X 6' HIGH IST 50 75' LONG X 6' HIGH			0010 0010 0010	B-48-0058 B-48-0058 B-48-0058 B-48-0058	V 4x 63 FION NW SW NE SE	VOOD T 6-INCH REFI 12 FT 4.0612 637 EA 1 1 1 1 1	YPE II REM LECTIVE S F T 7.2230 638 SF 3 3 3 3 3 3	IGNS SMA YPE II SUF 3.2602 638 EA 1 2 2 1	ALL SIGN PPORTS 3.3000 EA 1 W5 2 W5 2 W5 1 W5 1 W5	-52R -52L -52L		

3D\SHEETSPLAN\030101_MQ.DWG G:\2020-PROJ\20258 LAYOUT NAME - 01

PLOT	SCALE	:	1" =

Ε

		BARP TY	CONTROL ICADES PE III 0420	WARNII TY	CONTROL NG LIGHTS PE A .0705	сс ?	RAFFIC INTROL SIGNS 3.0900	_
CATEGORY	DAY\$	#	DAYS	Ħ	DAVS	Ħ	DA ^v \$	REMARKS
0010	50	3	180	4	240	1	60	ROAD CLOSED DETAIL D WEST SIDE
0010	60	3	180	4	240	1	60	ROAD CLOSED DETAIL D EAST SIDE
0010	60	2	120	4	240	4	240	ADVANCED ROAD CLOSED DETAIL C WEST SIDE
0010	60	2	120	4	240	4	240	ADVANCED ROAD CLOSED DETAIL C EAST SIDE
0010	50	9	540	18	1,080	69	4,140	DETOUR
	101AL 0010		1,140		2,040		4,740	=

		-	MARKING LINE EPOXY 4-INCH	MARKING LINE EPOXY 4-INCH, YELLOW	MARKING LINE EPOXY 4-INCH, WHITE	_
			646.1020	*	*	
CATEGORY	STATION TO STATION	SIDE	LF	LF	LF	REMARKS
0010	9+35 - 10+65	CL	260	260	-	DOUBLE YELLOW CENTERLINE
0010	9+35 - 10+65	LT	130	-	130	LT WHITE EDGELINE
0010	9+35 - 10+65	RT	130	-	130	RT WHITE EDGELINE
		TOTAL 0010	520	260	260	=

*FOR INFOR

*FOR	INFORMATION ONLY	

CATEGORY	STATION	TO	STATION	CONSTRUCTION STAKING SUBGRADE 650.4500 LF	CONSTRUCTION STAKING BASE 650.5000 LF	CONSTRUCTION STAKING SLOPE STAKES 650.9920 LF
0010 0010	9+35 10+21		9+78 10+65	43 44	43 44	43 44
			TOTAL 0010	87	87	87

PROJECT NO:	8857-00-70	HWY: CTH B	COUNTY: POLK			MISCELLANEOU	S QUANTITIES	
FILE NAME : \\10.0.0.1	.60\PROJECTS\2020-PROJ\20258230\C3D\SHEETSPLAN\030101_1	MQ.DWG		PLOT DATE :	7/13/2022 10:06 AM	PLOT BY :	JACOB FRIBERG	PLOT NAME :

FILE NAME : \\10.0.0.160\PROJECTS\2020-PROJ\20258230\C3D\SHEETSPLAN\030101_MQ.DWG LAYOUT NAME - 02

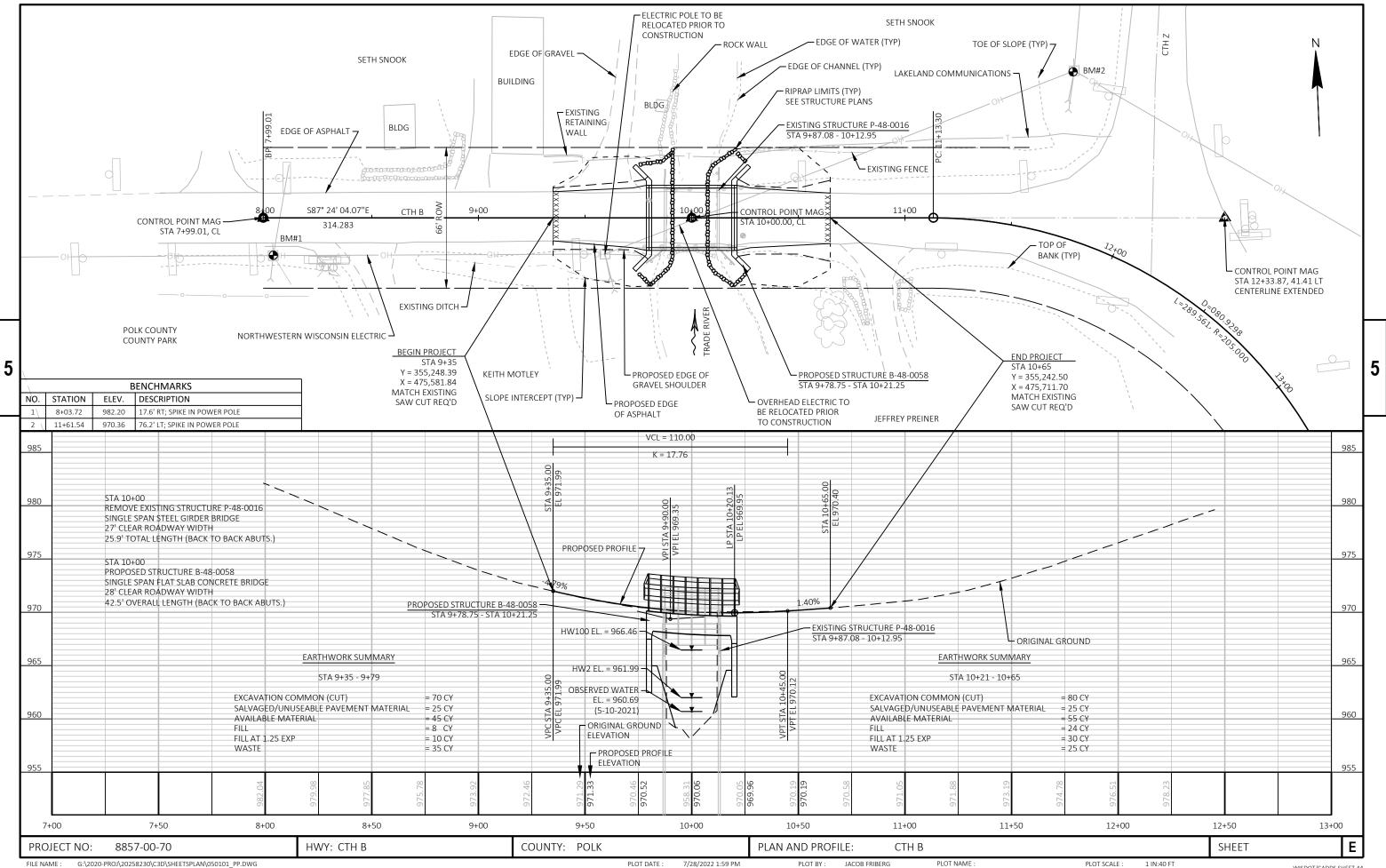
3

PLOT DATE : 7/13/2022 10:06 AM PLOT BY : JACOB FRIBERG

3

SHEET

E



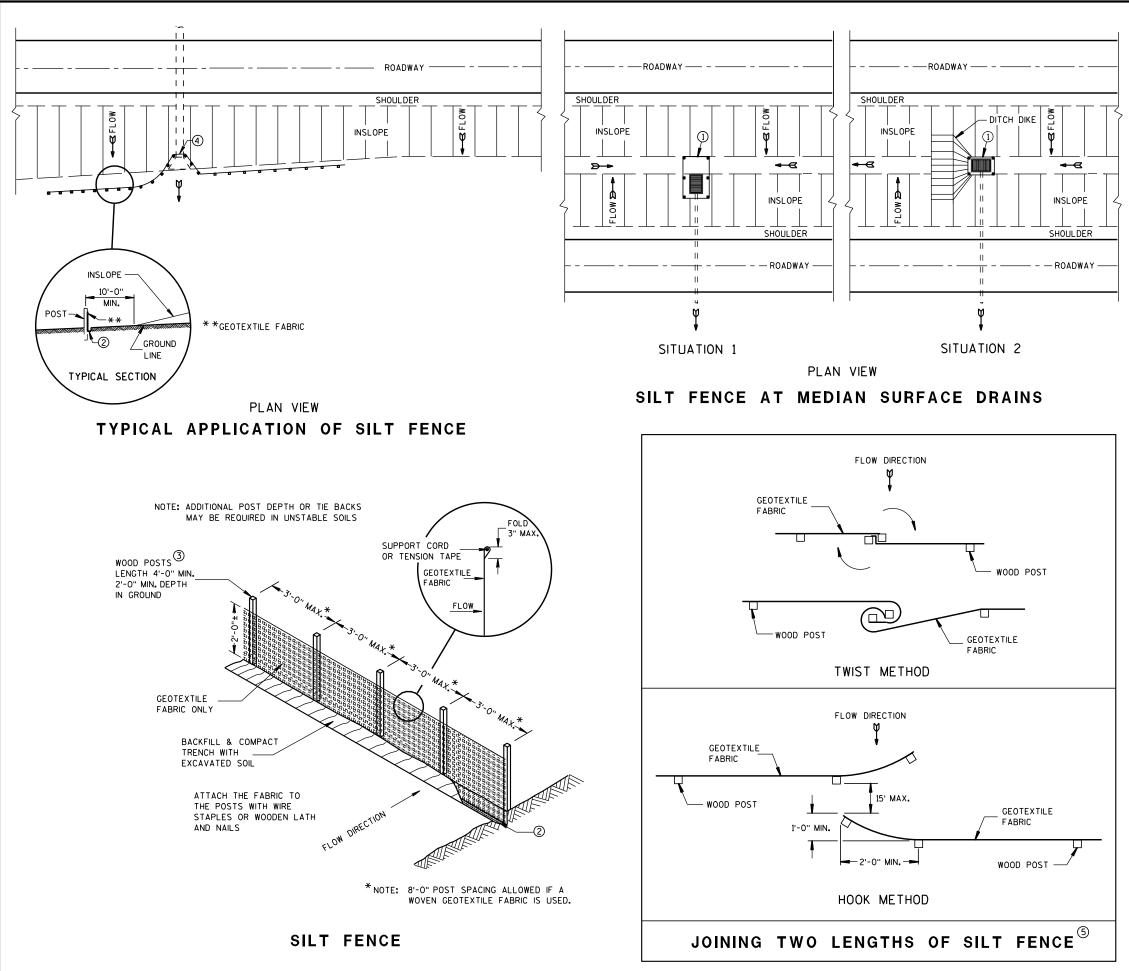
LAYOUT NAME - PLAN & PROFILE

PLOT NAME

PLOT BY : 7/28/2022 1:59 PM

Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRI CADES AND SI GNS FOR VARI OUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C06-10	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-21A	LONGITUDINAL MARKING (MAINLINE)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



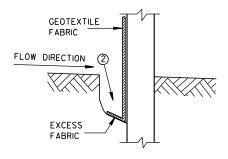
S.D.D. 8 E 9

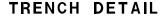
Ō

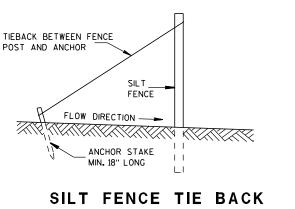
GENERAL NOTES

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

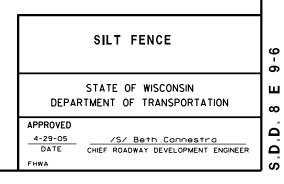
- \bigcirc horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3)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

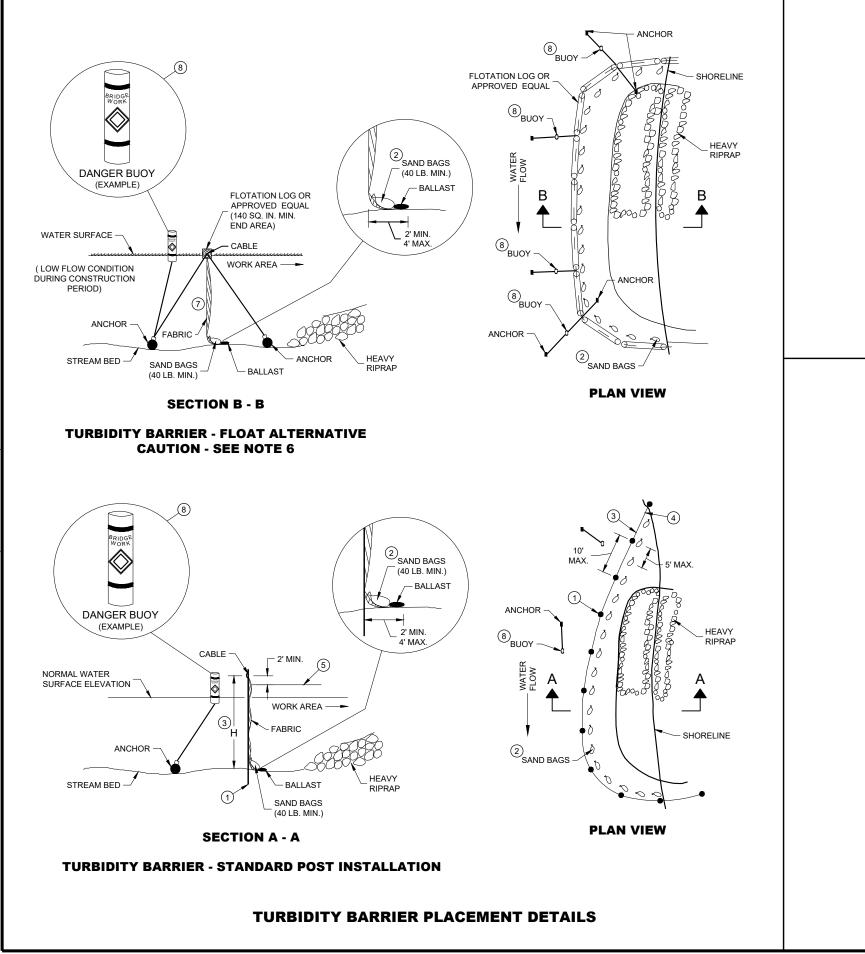




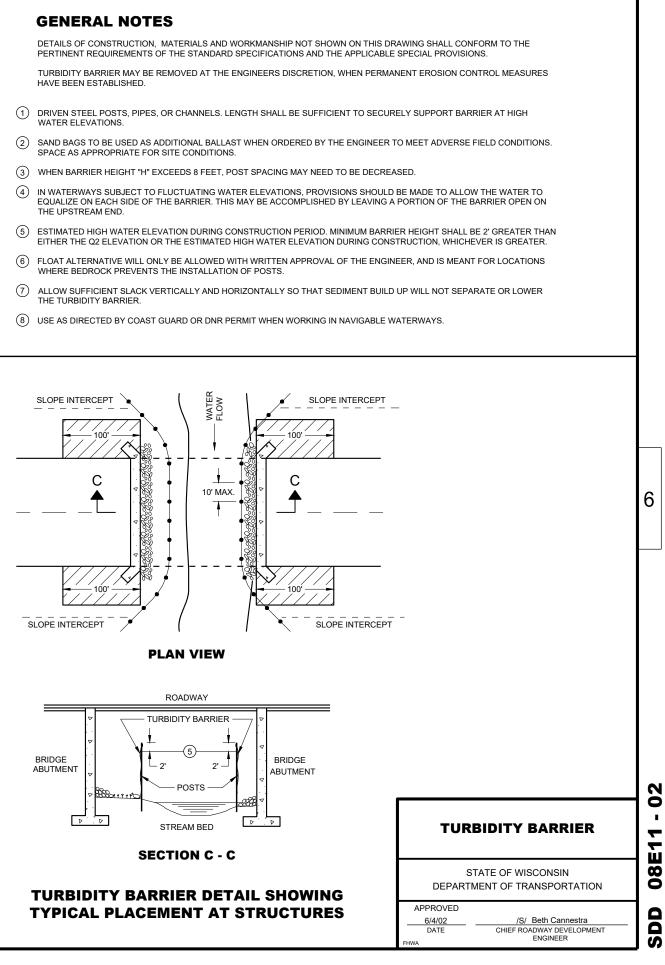


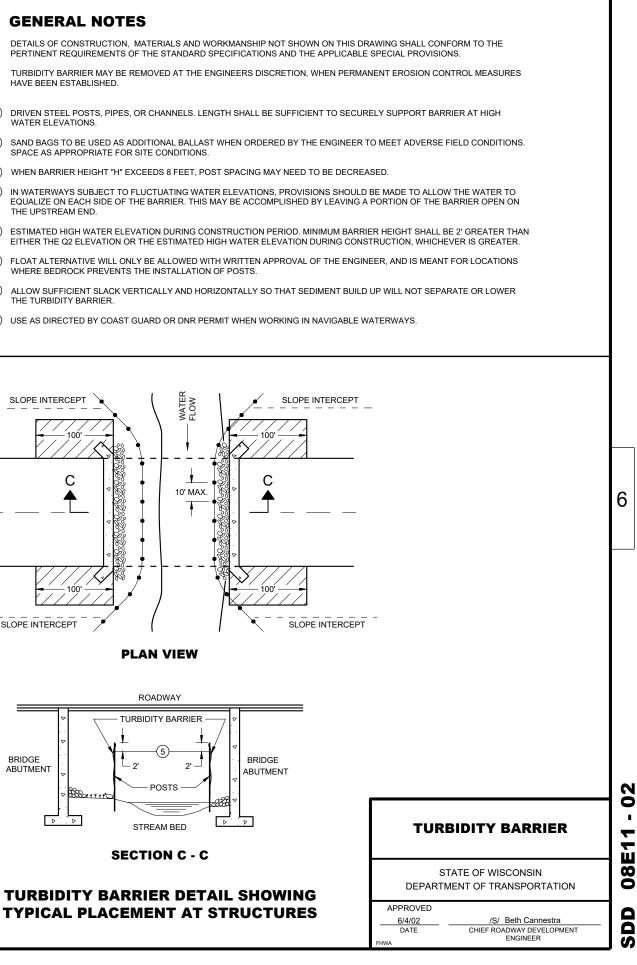
(WHEN REQUIRED BY THE ENGINEER)



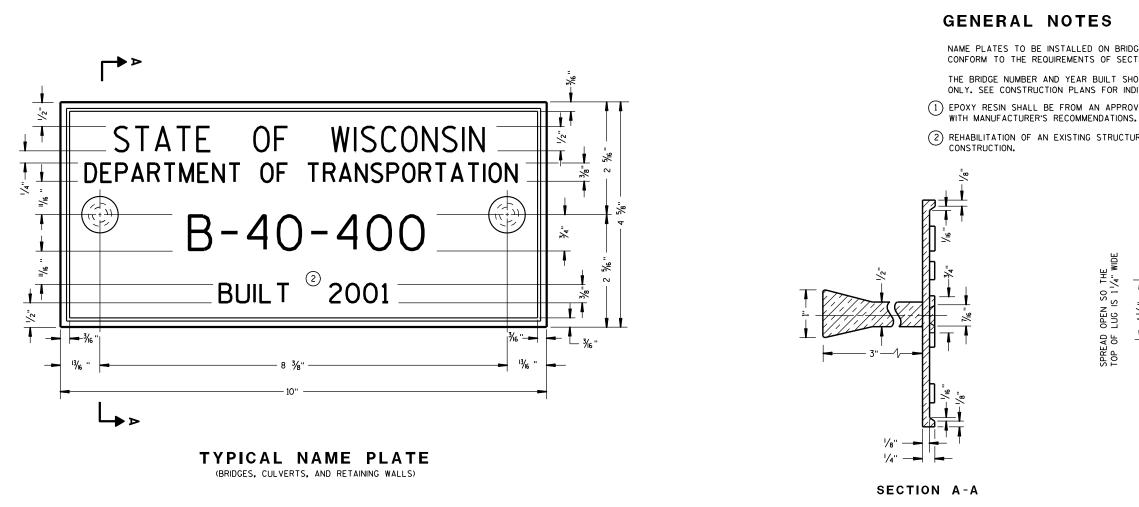


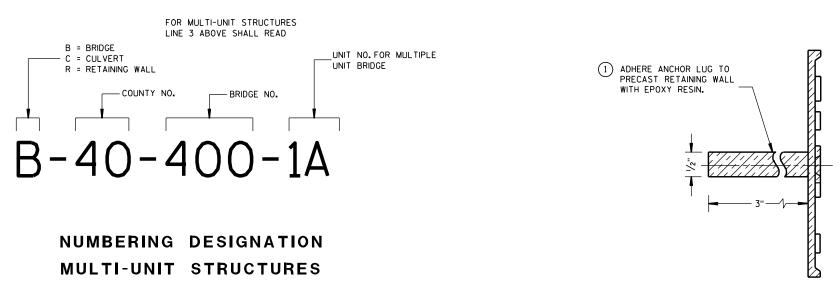
- WATER ELEVATIONS.





SDD 08E -02



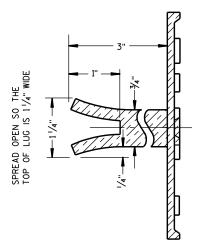


ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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

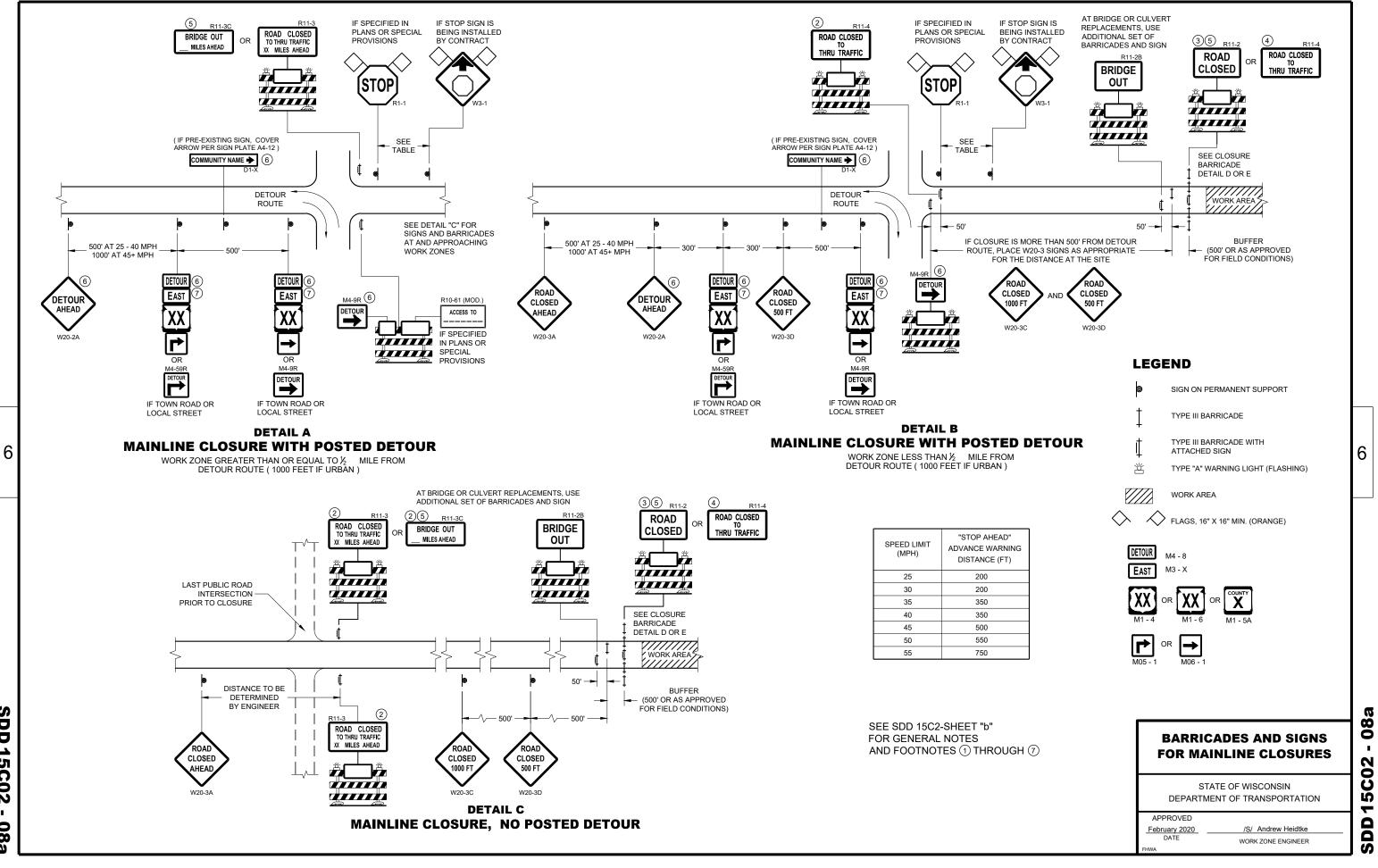
APPROVED

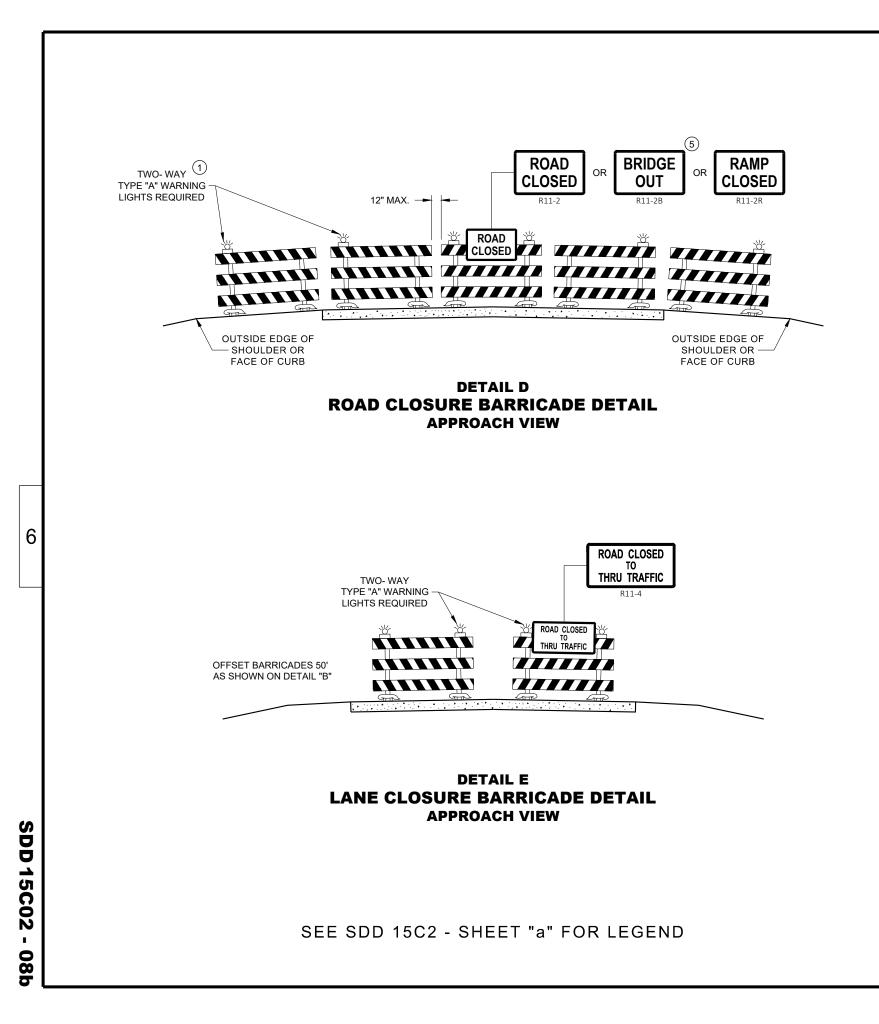
3/26/10 DATE FHWA

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

Δ

ഗ





GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

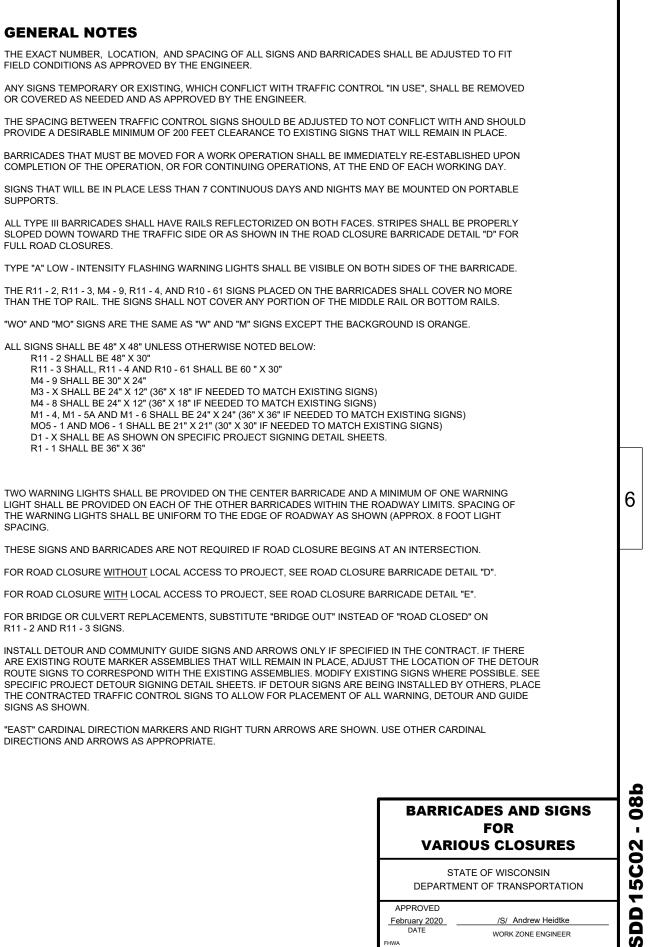
SUPPORTS.

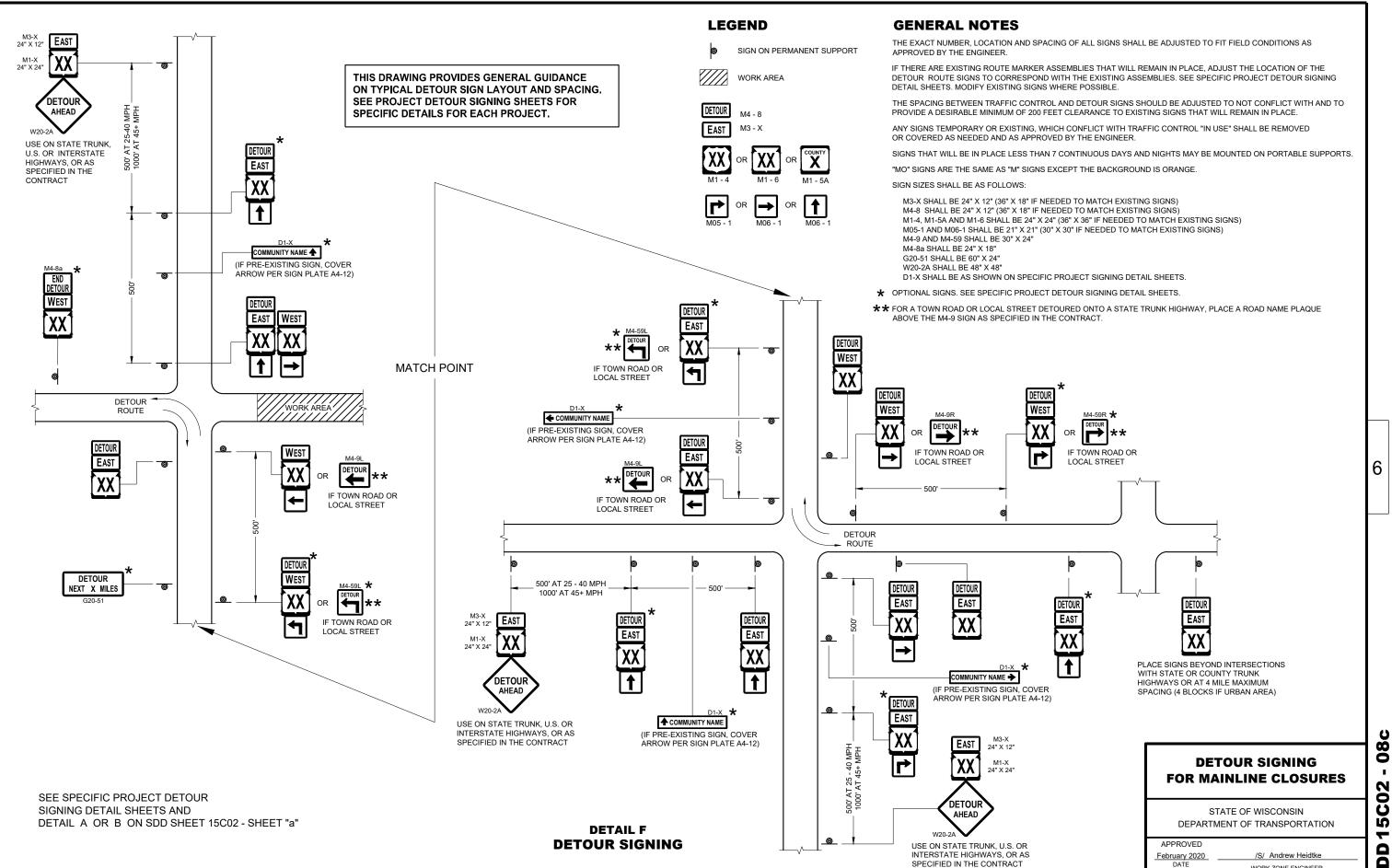
FULL ROAD CLOSURES.

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)
 - MO5 1 AND MO6 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
 - D1 X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1 - 1 SHALL BE 36" X 36"
- (1)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.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.





SDD 15C02 0 80

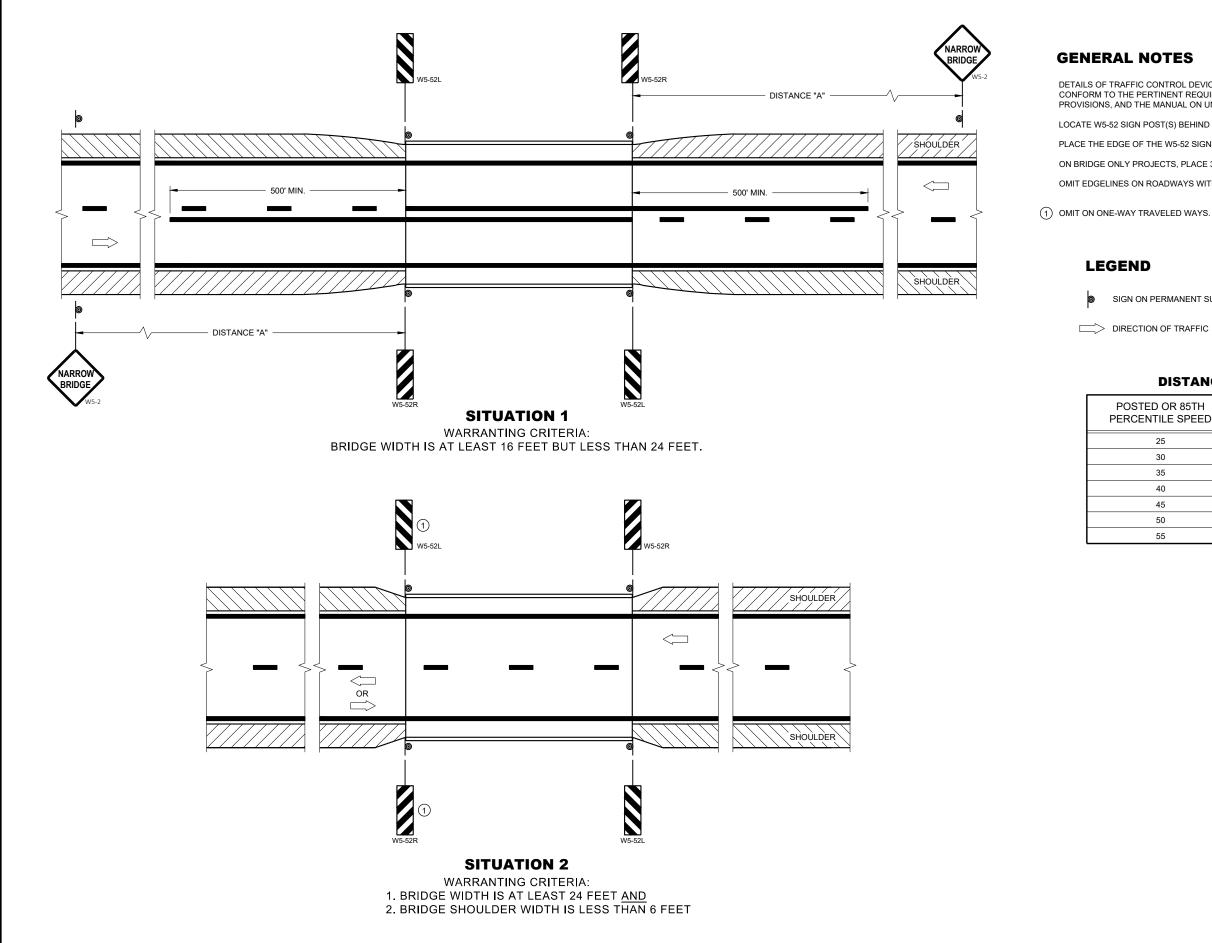
6

February 2020 DATE

WORK ZONE ENGINEER

60 0 . N Ö ١**Ņ** ~ ۵

ົດ



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'

6

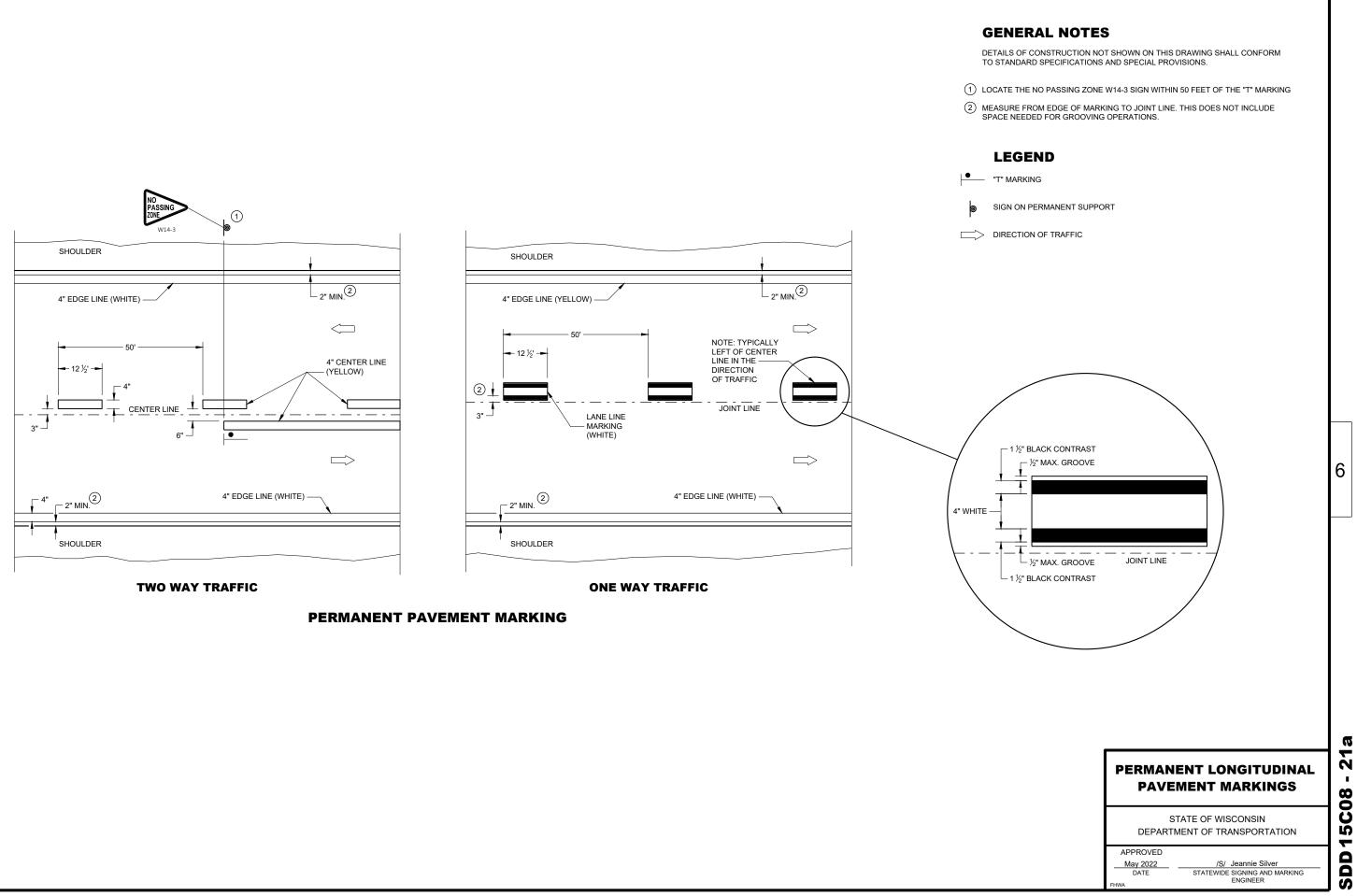
0 7 **C**06 Ñ -۵ SD

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2022 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER

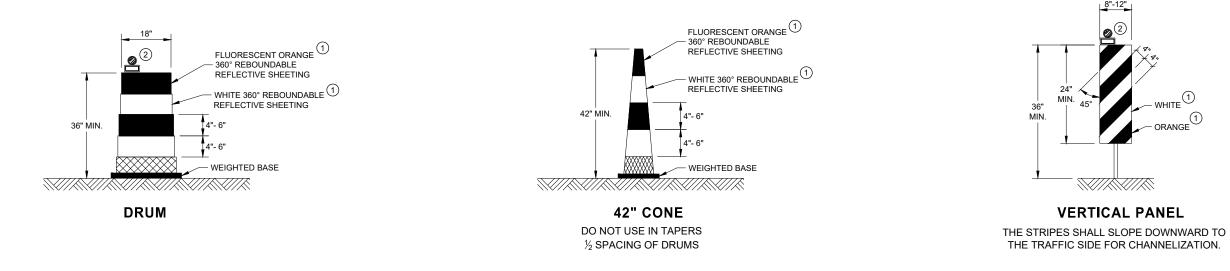


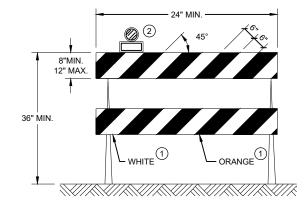




GENERAL NOTES

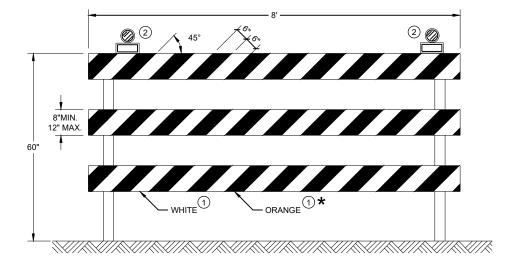
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





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.

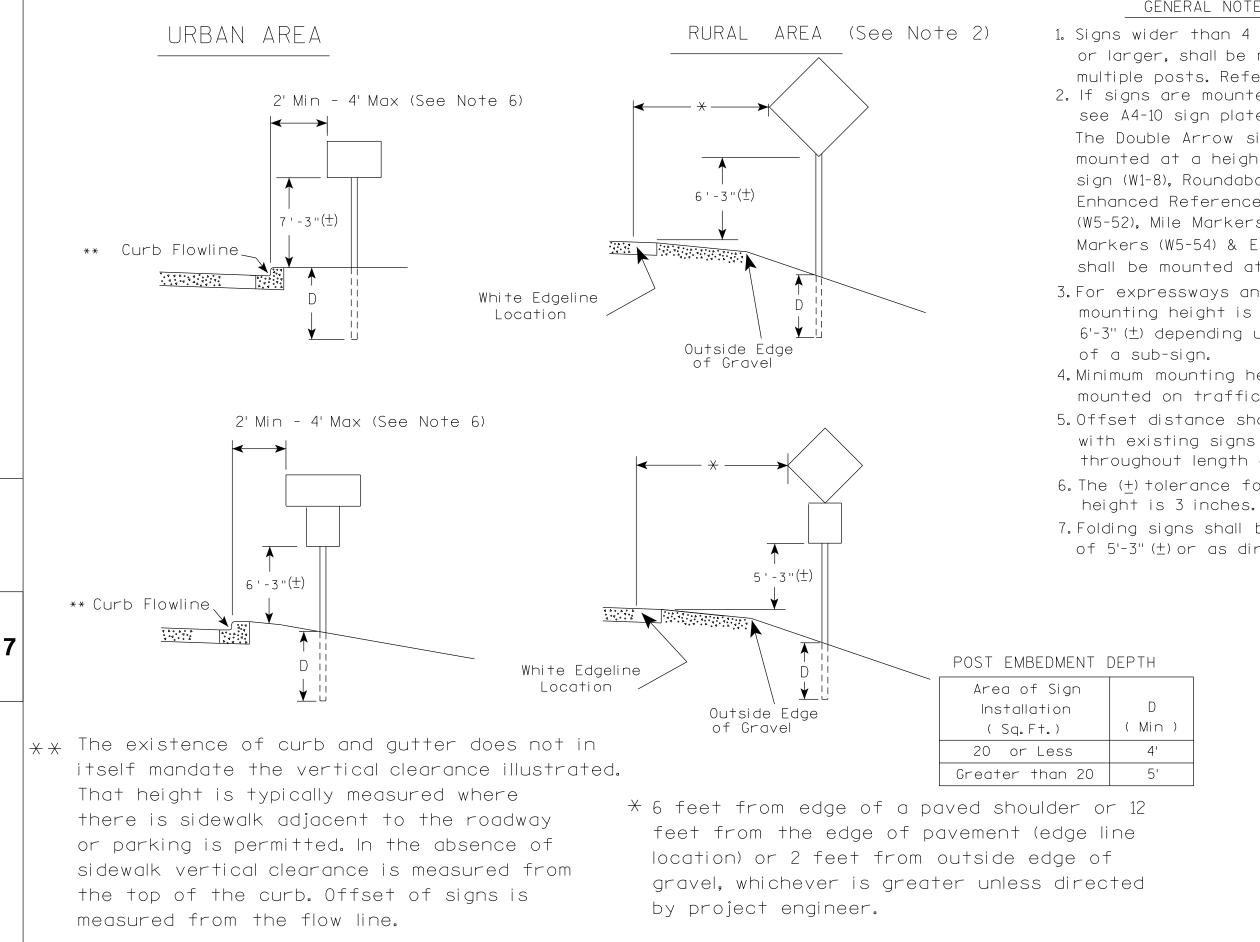
Ω **60** . ~ ~ 0 Ň ~ ົ

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2021 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

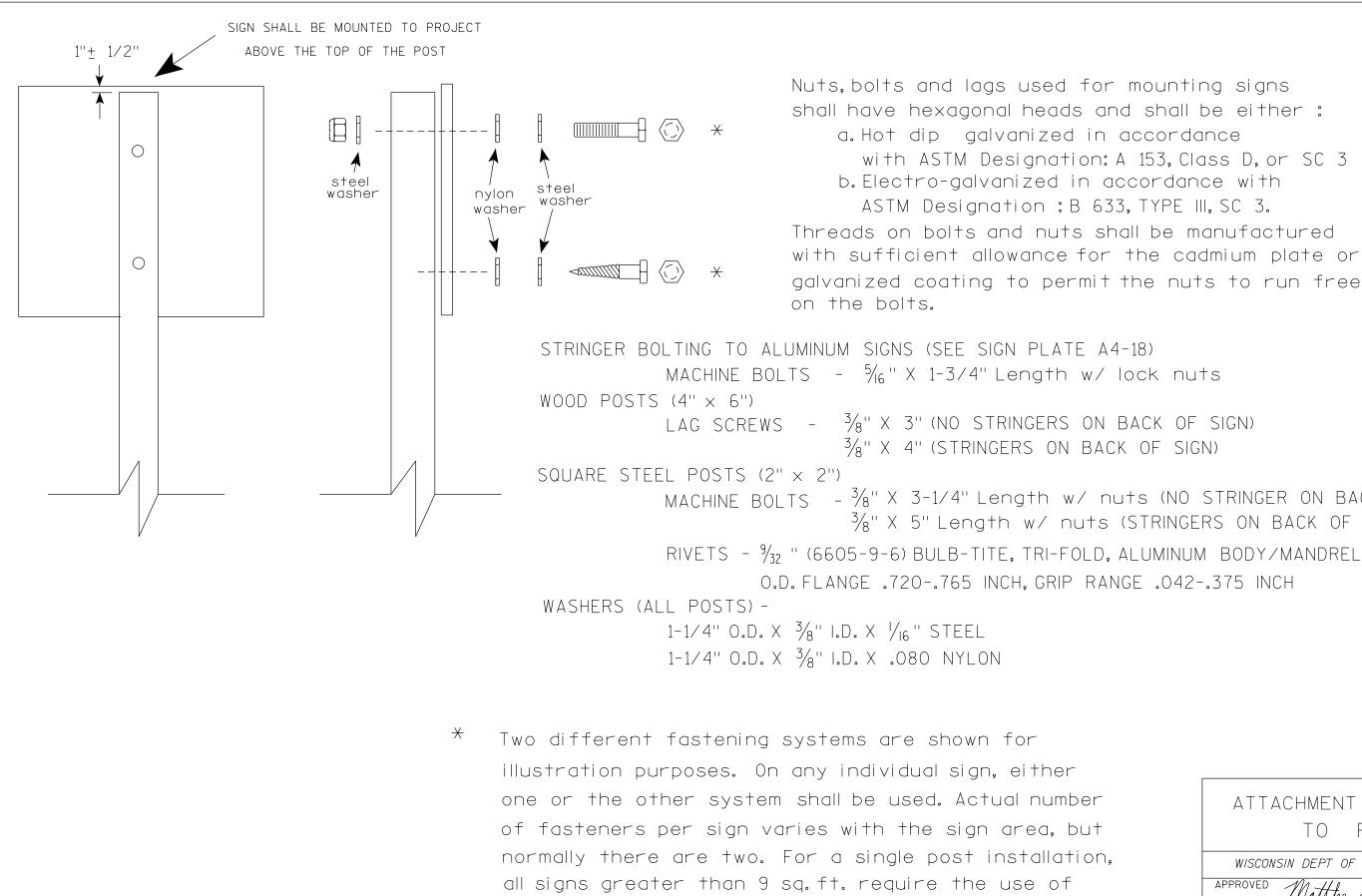


PROJECT NO:	HWY:	COUNTY:			
			DUCT DUTE . AT MAN COOOL A.C.	DI OT DV	DLOT NAME -

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 <u>Matthew & Rauch</u> For state Traffic Engineer
	DATE <u>5/13/202</u> 0 PLATE NO. <u>A4-3.22</u>
	SHEET NO: E
PLOT SCALE : \$\$	plotscale\$\$ WISDOT/CADDS SHEET 42



PROJECT NO:

3 fasteners.

PLOT BY : dotc4c

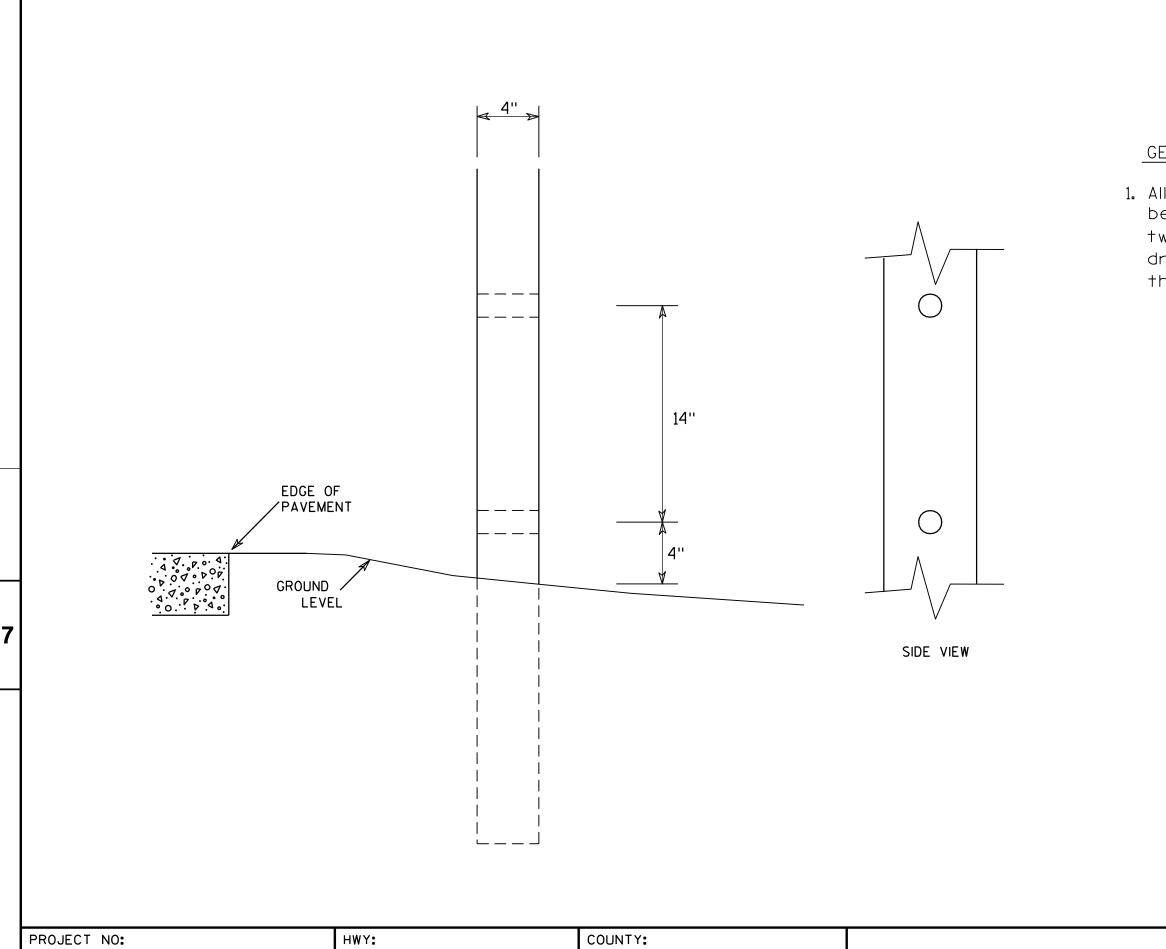
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured 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 $-\frac{3}{8}$ " 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)

O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

	_
ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED Matthew R Rauch	
DATE <u>4/1/202</u> 0 PLATE NO. <u>44-8.9</u>	
SHEET NO: E	

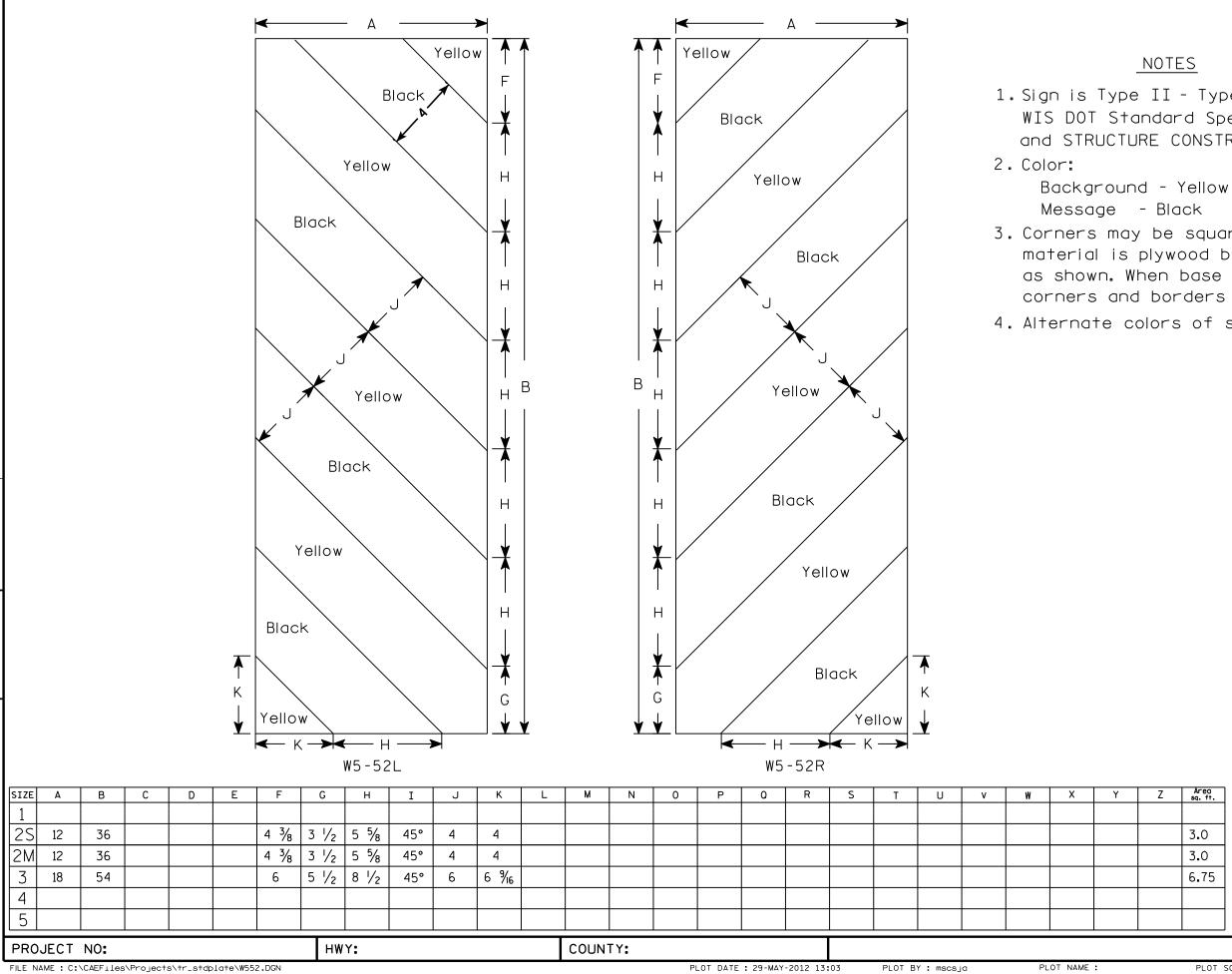


FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

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	Xe	s woo	D P	DST	
		MOD	IFIC	ΔΤΙΟ	NS	
	WISCONSIN DEPT OF TRANSPORTATION					
	APPROVE	°_(Chester.	JS) Ognj	
	for State Traffic Engineer					
	DATE 3	/27/9	<u>7</u> PL	ATE NO.	A4-11.2	
SHEET NO:						Ε
OT SCALE	E:6.20 7 33	8:1.0000	⁰⁰ wis	SDOT/CAD	DS SHEE	т 42



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

7

PLOT DATE : 29-MAY-2012 13:03

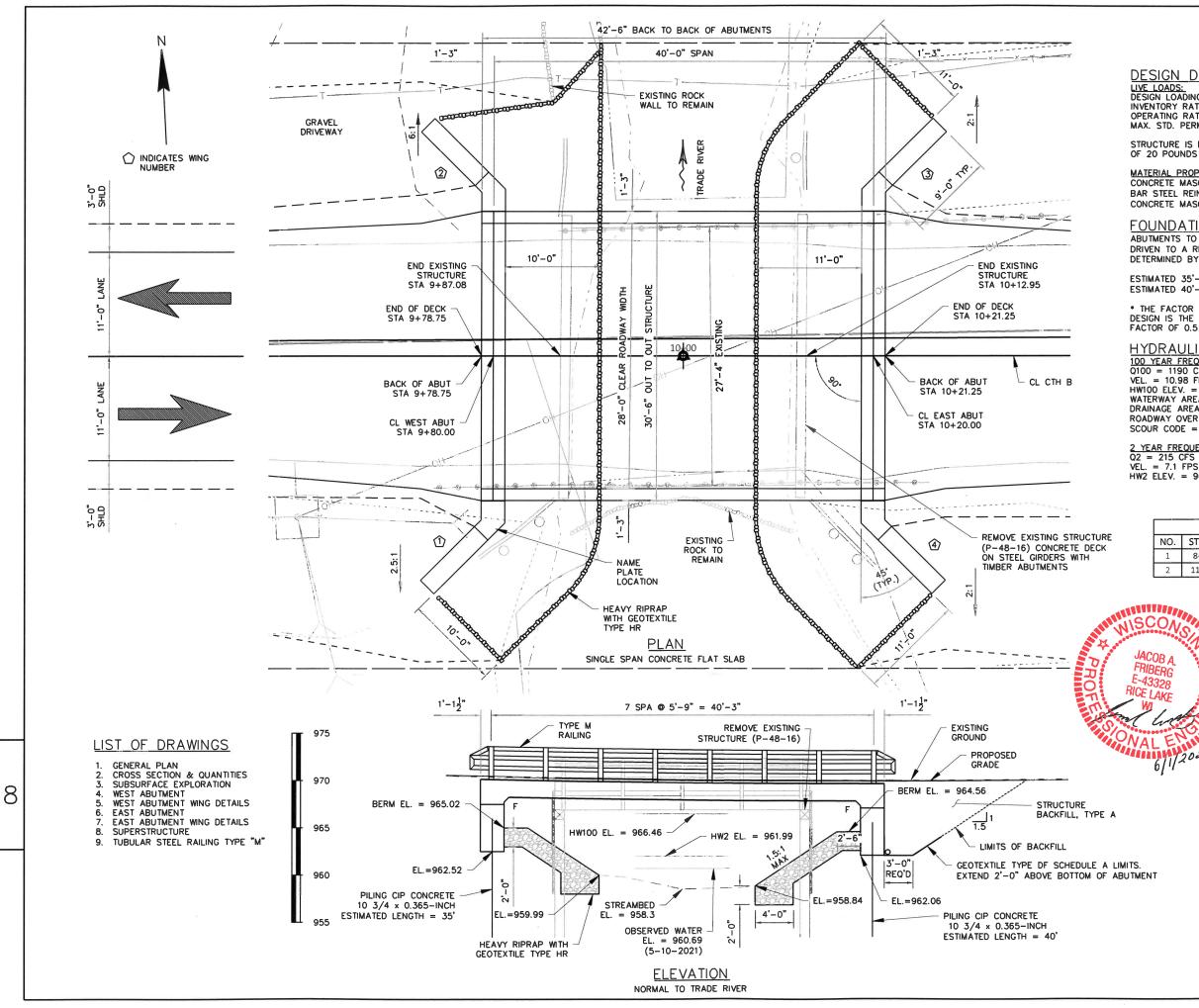
PLOT NAME :

NOTES

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

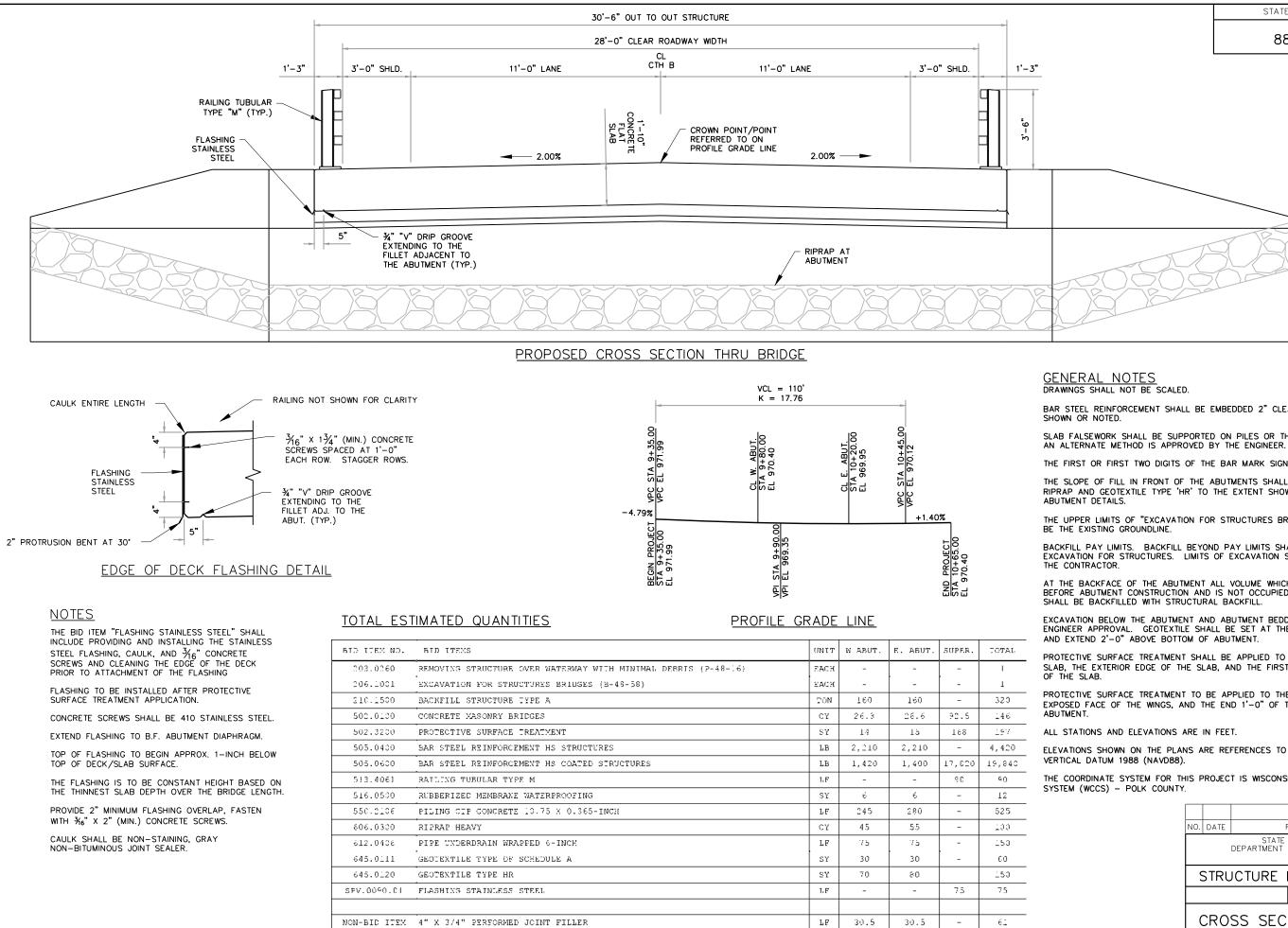
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded. 4. Alternate colors of stripes as shown.

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



STATE PROJECT NUMBER 8857-00-70 DESIGN DATA DESIGN LOADING = HL-93INVENTORY RATING FACTOR = 1.11 OPERATING RATING FACTOR = 1.45 MAX. STD. PERMIT VEHICLE LOAD = 250 KIPS STRUCTURE IS DESIGNED FOR FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT MATERIAL PROPERTIES: CONCRETE MASONRY SLAB ----- F'C = 4,000 PSI BAR STEL REINFORCEMENT (GRADE 60) ----- FY = 60,000 PSI CONCRETE MASONRY OTHER ----- F'C = 3,500 PSI FOUNDATION DATA ABUTMENTS TO BE SUPPORTED ON PILING CIP CONCRETE 10 3/4 X 0.365-INCH DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 130 TONS* (MIN) PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 35'-O" LONG FOR THE WEST ABUTMENT. ESTIMATED 40'-0" LONG FOR THE EAST ABUTMENT. * THE FACTOR AXIAL RESISTANCE OF THE PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING THE MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY. TRAFFIC DATA HYDRAULIC DATA 100 YEAR FREQUENCYQ100 = 1190 CFS A.D.T. (2015) = 411 A.D.T. (2035) = 452 VEL. = 10.98 FPS R.D.S. = 35 MPHHW100 ELEV. = 966.46 WATERWAY AREA = 108 SF DRAINAGE AREA = 43 SQ.MI. ROADWAY OVERTOPPING = N/ASCOUR CODE = 52 YEAR FREQUENCY Q2 = 215 CFS VEL. = 7.1 FPS HW2 ELEV. = 961.99 BENCHMARKS DESCRIPTION STATION ELEV. 17.6' RT; SPIKE IN POWER POLE 8+03.72 982.20 76.2' LT; SPIKE IN POWER POLE 970.36 11+61.54 CONTACTS BRIDGE OFFICE: CONTACT: AARON BONK PHONE: (608) 261-0261 CONSULTANT: — CONTACT: COOPER ENGINEERING PHONE: (715) 234-7008 NO. DATE ΒY REVISION

6/1/2022 COOPER 2600 COLLEGE DRIVE, P.O. BOX 230 RICE LAKE, WISCONSIN 5466-0230 ENGINEERING TELEPHONE (715) 234-7008 FAX (715) 234-1025 8 STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION am 11 50 09/15/22 ACCEPTED CHIEF STRUCTURES DESIGN ENGINEER DATE STRUCTURE B-48-58 CTH B OVER TRADE RIVER TOWN / CITY / VILLAGE POLK DESIGN SPEC AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS DESIGNED JF CK'D. JF CK'D. SP BY SP SHEET 1 OF 9 GENERAL PLAN



_

ELEVATIONS SHOWN ON THE PLANS ARE REFERENCES TO THE NORTH AMERICAN

_				
	STATE	PROJECT	NUMBER	

8857-00-70

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE, UNLESS

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

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-48-58" SHALL

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

AT THE BACKFACE OF THE ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURAL BACKFILL.

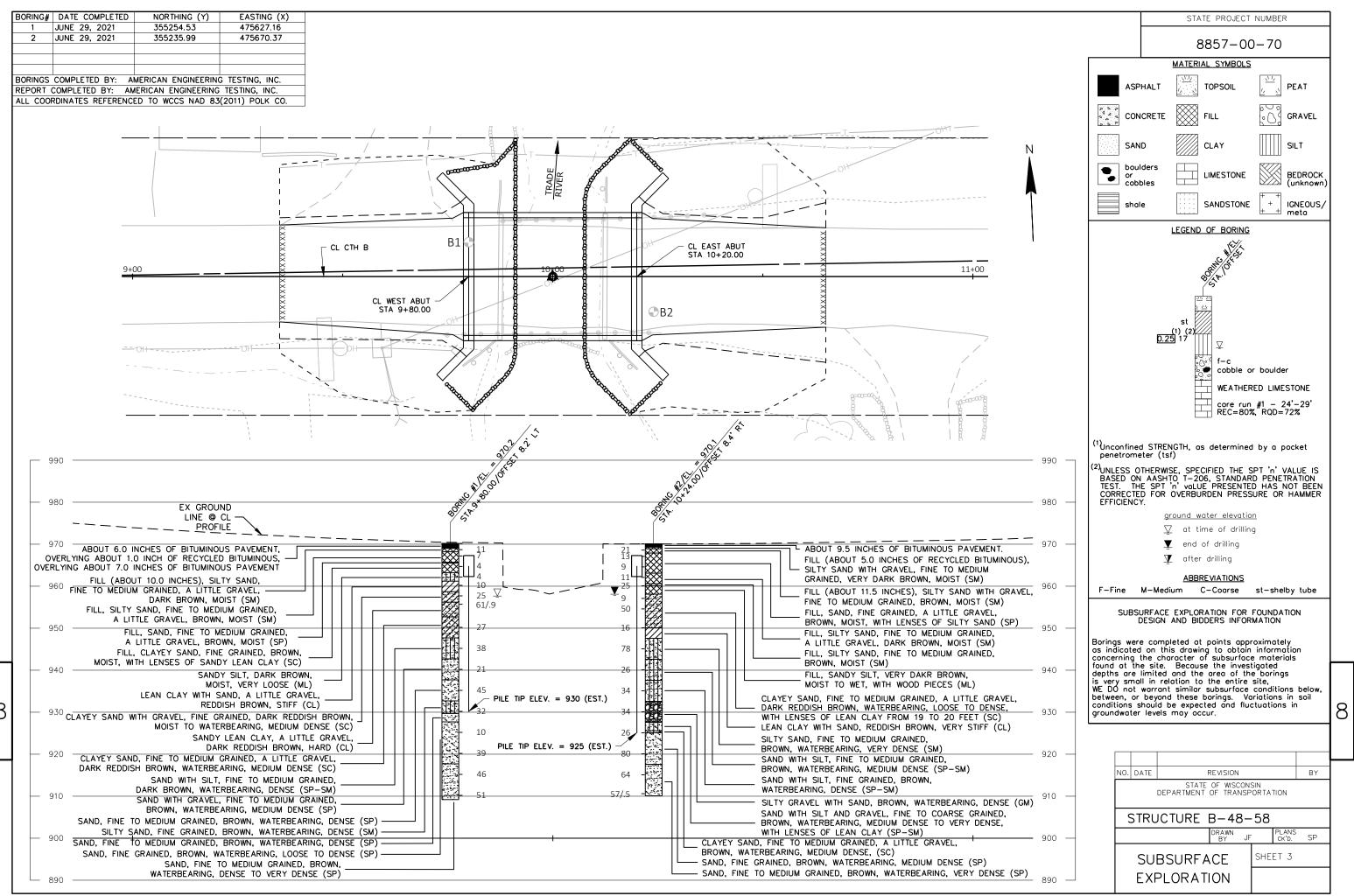
EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION

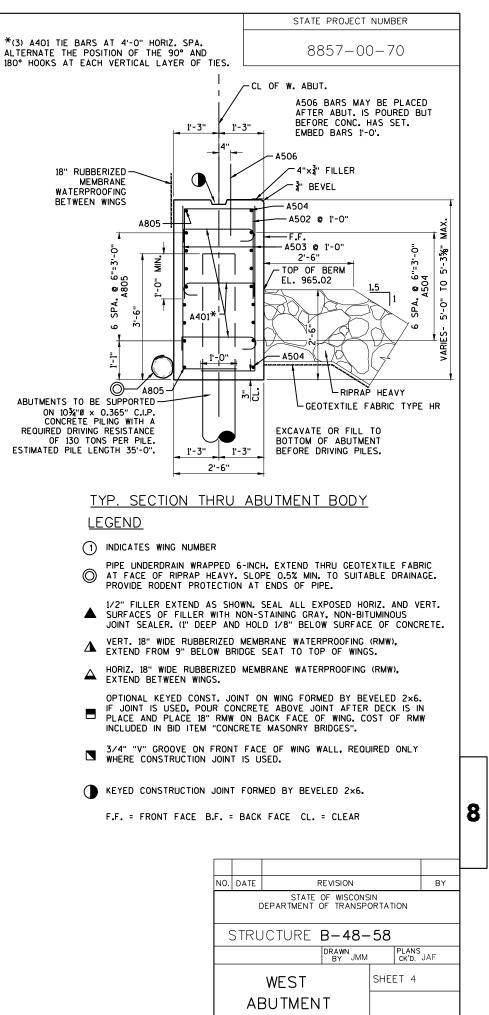
PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP SURFACE OF THE SLAB, THE EXTERIOR EDGE OF THE SLAB, AND THE FIRST 1'-O" OF THE UNDERSIDE

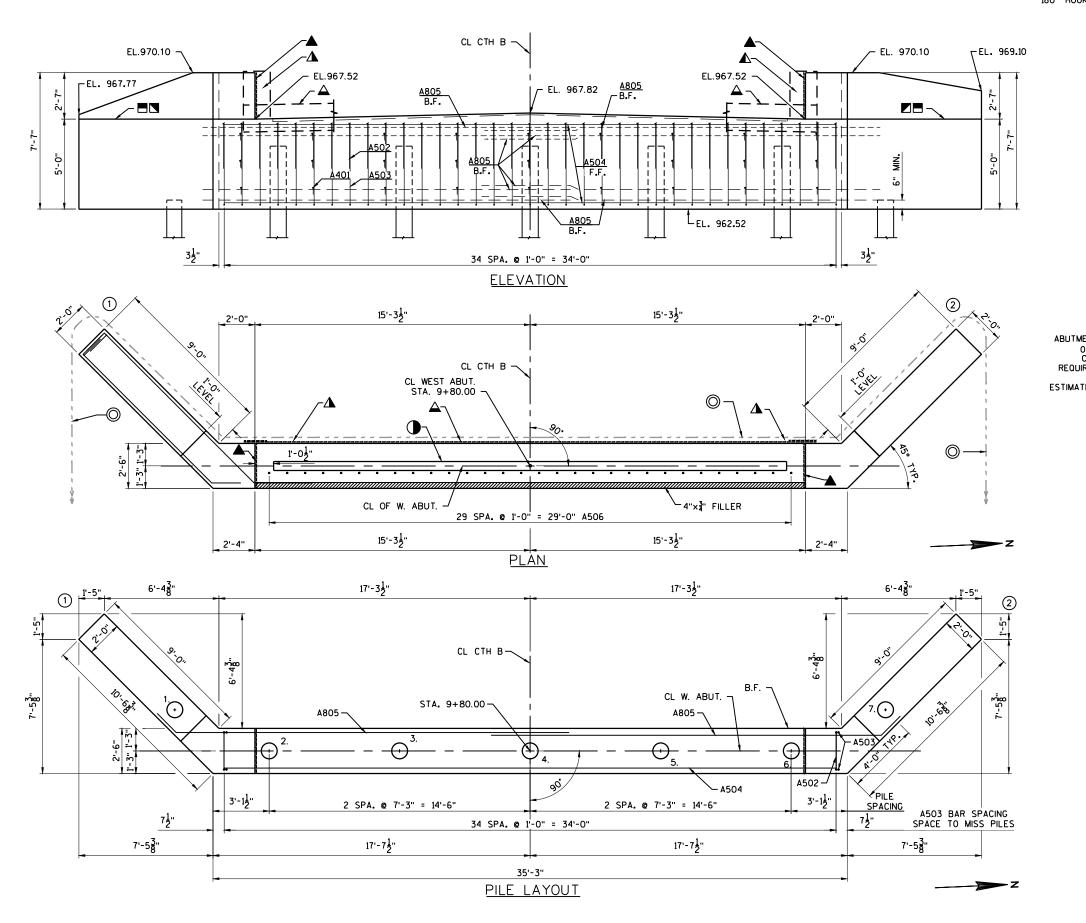
PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TOP AND EXTERIOR EXPOSED FACE OF THE WINGS, AND THE END 1'-O" OF THE FRONT FACE OF

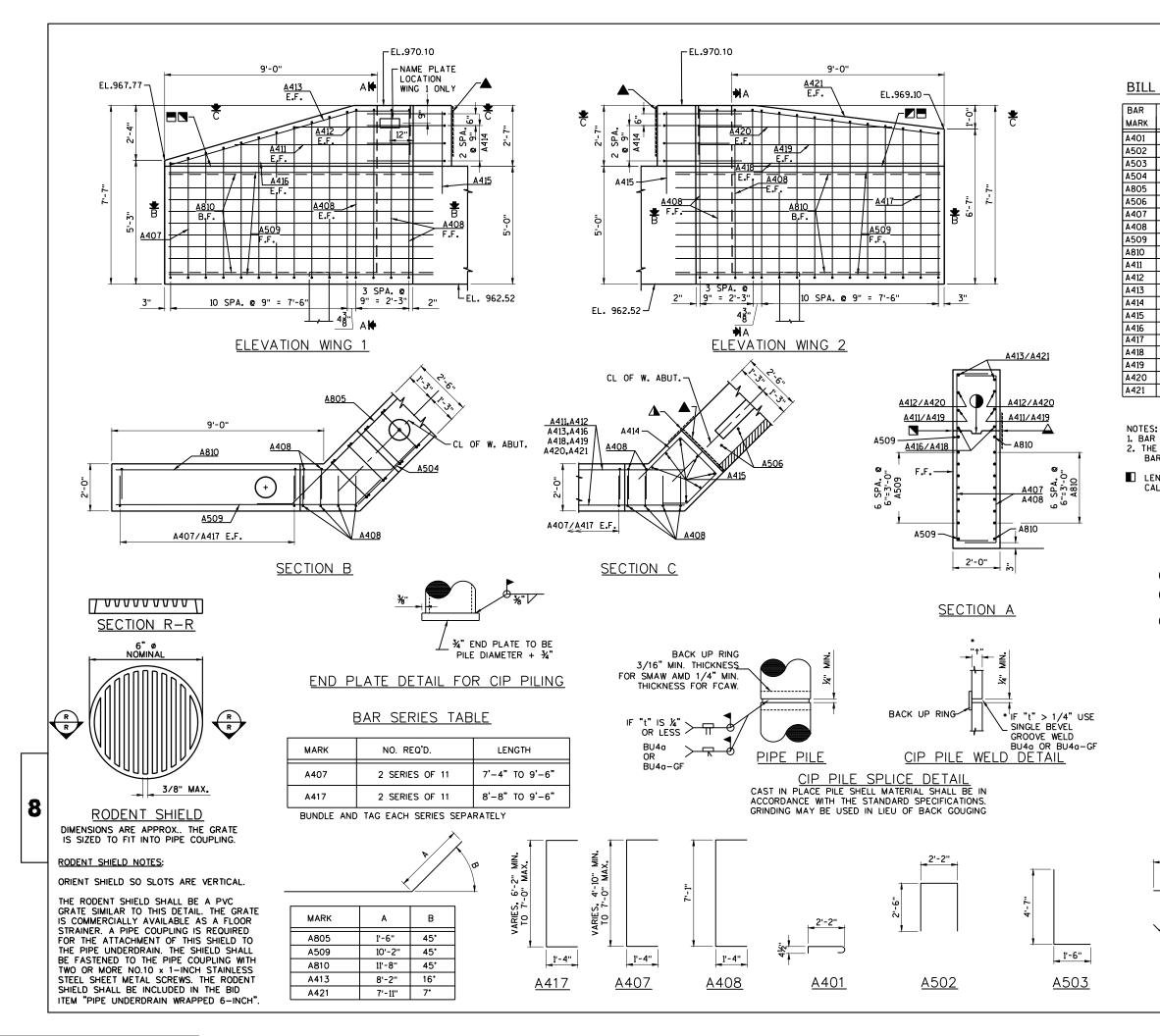
THE COORDINATE SYSTEM FOR THIS PROJECT IS WISCONSIN COUNTY COORDINATE

NO.	DATE			BY			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION							
	STRUCTURE B-48-58						
			DRAWN BY JF		PLANS CK'D.	SP	
CROSS SECTION SH					ET 2		
& QUANTITIES							









STATE PROJECT NUMBER

8857-00-70

BILL OF BARS

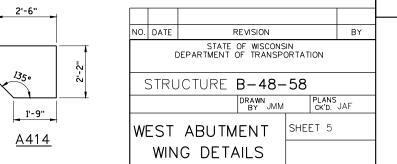
COAT	NO. REO'D	LENGTH	BENT	BAR SERIES	LOCATION
	27	3'-0"	х		ABUT. BODY THE BARS
	35	6'-11"	Х		ABUT. BODY HORIZ. TOP
	70	6'-1"	Х		ABUT. BODY VERT.
	9	34'-0"			ABUT. BODY HORIZ. F.F.
	18	23'-8"	Х		ABUT. BODY HORIZ. B.F.
Х	30	2'-0"			ABUT. BODY - TOP DOWEL VERT.
х	22	8'-5"	Х	х	WING 1 VERT. E.F.
Х	12	9'-7"	Х		WINGS 1 & 2 VERT. E.F.
Х	18	11'-8''	Х		WINGS 1 & 2 HORIZ. F.F.
Х	18	13'-2"	Х		WINGS 1 & 2 HORIZ. B.F.
Х	2	7'-5"			WING 1 HORIZ. E.F.
Х	2	4'-10"			WING 1 HORIZ. E.F.
Х	2	10'-6"	Х		WING 1 DIAGONAL E.F.
Х	8	8'-5"	X		WINGS 1 & 2 HORIZ.
х	14	3'-6"			WINGS 1 & 2 VERT.
Х	2	10'-1"			WING 1 HORIZ. E.F.
х	22	9'-1"	Х	Х	WING 2 VERT. E.F.
Х	2	10'-1"			WING 2 HORIZ. E.F.
Х	2	10'-1"			WING 2 HORIZ. E.F.
Х	2	8'-2"			WING 2 HORIZ. E.F.
х	2	10'-3"	Х		WING 2 DIAGONAL E.F.

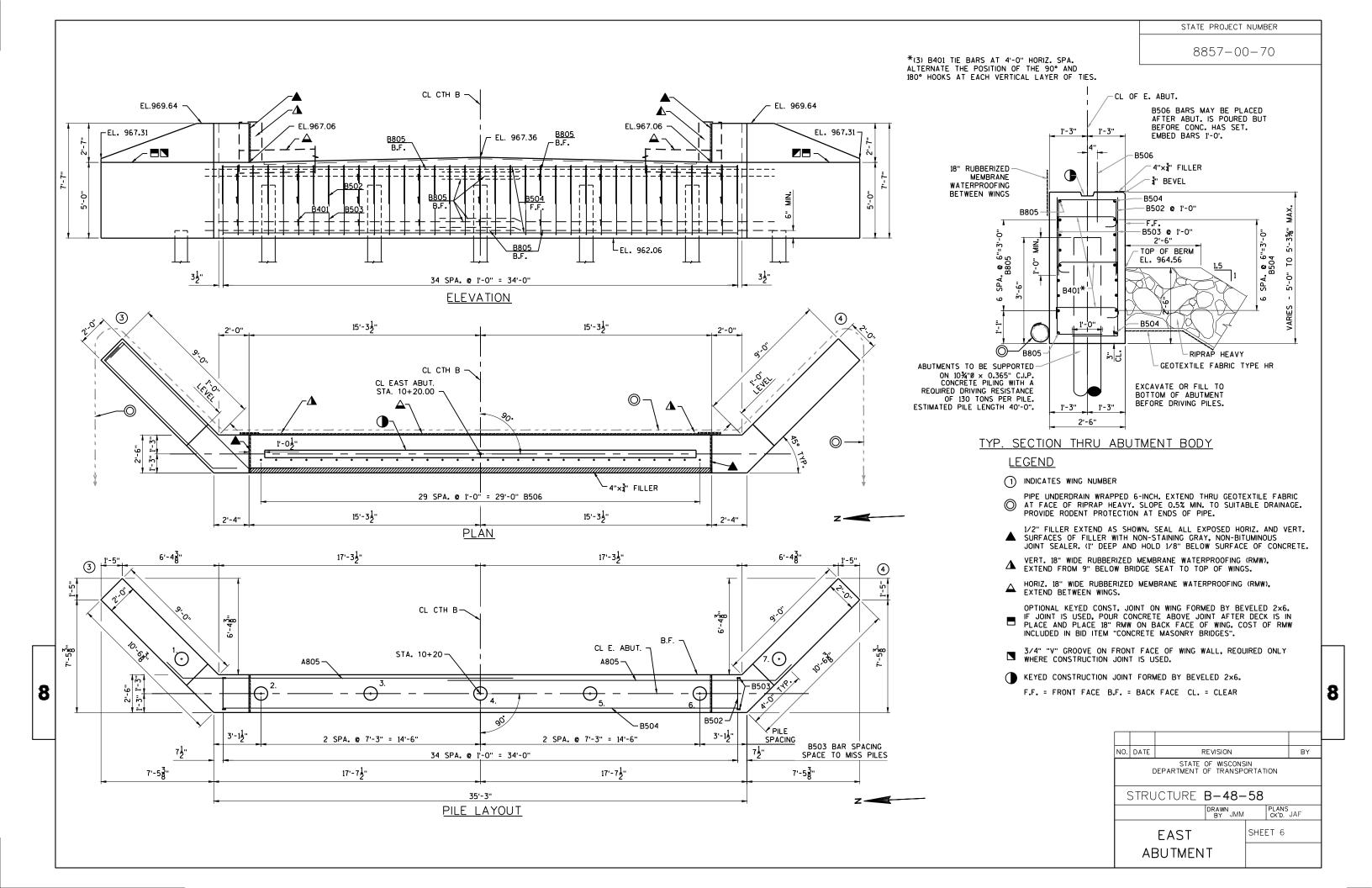
 BAR TABLE APPLIES TO SOUTH ABUTMENT ONLY.
THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

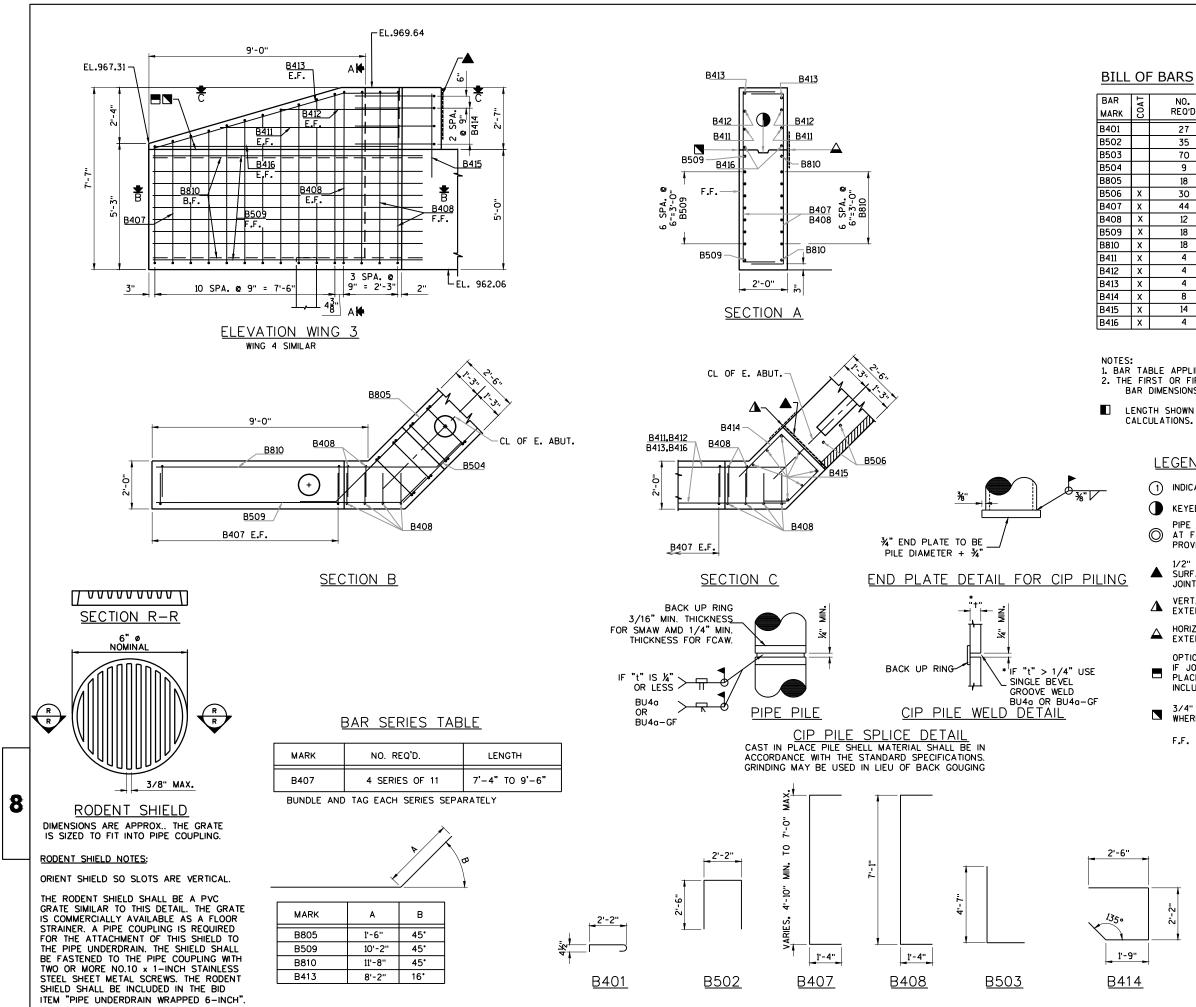
■ LENGTH SHOWN IS AN AVERAGE LENGTH TO BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

<u>LEGEND</u>

- (1) INDICATES WING NUMBER
- KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2X6.
- PIPE UNDERDRAIN WRAPPED 6-INCH. EXTEND THRU GEOTEXTILE FABRIC AT FACE OF RIPRAP HEAVY. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. PROVIDE RODENT PROTECTION AT ENDS OF PIPE.
- ▲ 1/2" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.
- Δ vert. 18" wide Rubberized Membrane Waterproofing (RMW), extend from 9" below bridge seat to top of wings.
- \bigtriangleup Horiz. 18" Wide Rubberized Membrane WaterProofing (RMW), extend between Wings.
- OPTIONAL KEYED CONST. JOINT ON WING FORMED BY BEVELED 2×6. IF JOINT IS USED, POUR CONCRETE ABOVE JOINT AFTER DECK IS IN PLACE AND PLACE 18" RMW ON BACK FACE OF WING. COST OF RMW INCLUDED IN BID ITEM "CONCRETE MASONRY BRIDGES".
- \blacksquare 3/4" "V" GROOVE ON FRONT FACE OF WING WALL, REQUIRED ONLY WHERE CONSTRUCTION JOINT IS USED.
 - F.F. = FRONT FACE B.F. = BACK FACE CL. = CLEAR







STATE PROJECT NUMBER

8857-00-70

NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
27	3'-0"	Х		ABUT. BODY TIE BARS
35	6'-11"	Х		ABUT. BODY HORIZ. TOP
70	6'-1"	Х		ABUT. BODY VERT.
9	34'-0"			ABUT. BODY HORIZ. F.F.
18	23'-8"	Х		ABUT. BODY HORIZ. B.F.
30	2'-0"			ABUT. BODY - TOP DOWEL VERT.
44	8'-5"	Х	х	WINGS 3 & 4 VERT. E.F.
12	9'-7"	Х		WINGS 3 & 4 VERT. E.F.
18	11'-8"	Х		WINGS 3 & 4 HORIZ. F.F.
18	13'-2"	Х		WINGS 3 & 4 HORIZ. B.F.
4	7'-5"			WINGS 3 & 4 HORIZ. E.F.
4	4'-10"			WINGS 3 & 4 HORIZ. E.F.
4	10'-6"	X		WINGS 3 & 4 DIAGONAL E.F.
8	8'-5"	Х		WINGS 3 & 4 HORIZ.
14	3'-6"			WINGS 3 & 4 VERT.
4	10'-1"			WINGS 3 & 4 HORIZ. E.F.

1. BAR TABLE APPLIES TO NORTH ABUTMENT ONLY. 2. THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

LENGTH SHOWN IS AN AVERAGE LENGTH TO BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

<u>LEGEND</u>

(1) INDICATES WING NUMBER

KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2X6.

PIPE UNDERDRAIN WRAPPED 6-INCH. EXTEND THRU GEOTEXTILE FABRIC AT FACE OF RIPRAP HEAVY. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. PROVIDE RODENT PROTECTION AT ENDS OF PIPE.

▲ 1/2" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.

VERT. 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING (RMW), A EXTEND FROM 9" BELOW BRIDGE SEAT TO TOP OF WINGS.

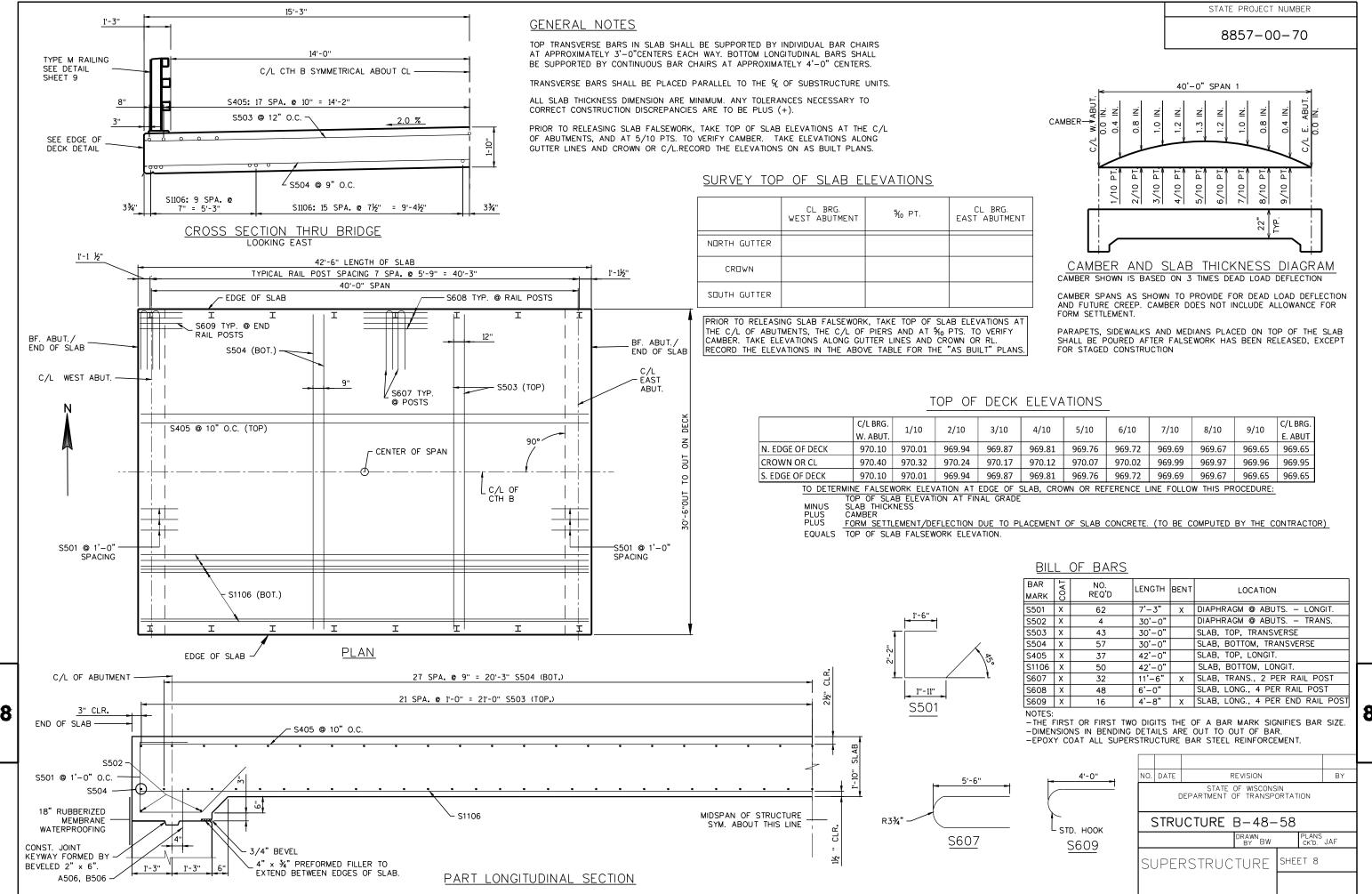
HORIZ. 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING (RMW), A EXTEND BETWEEN WINGS.

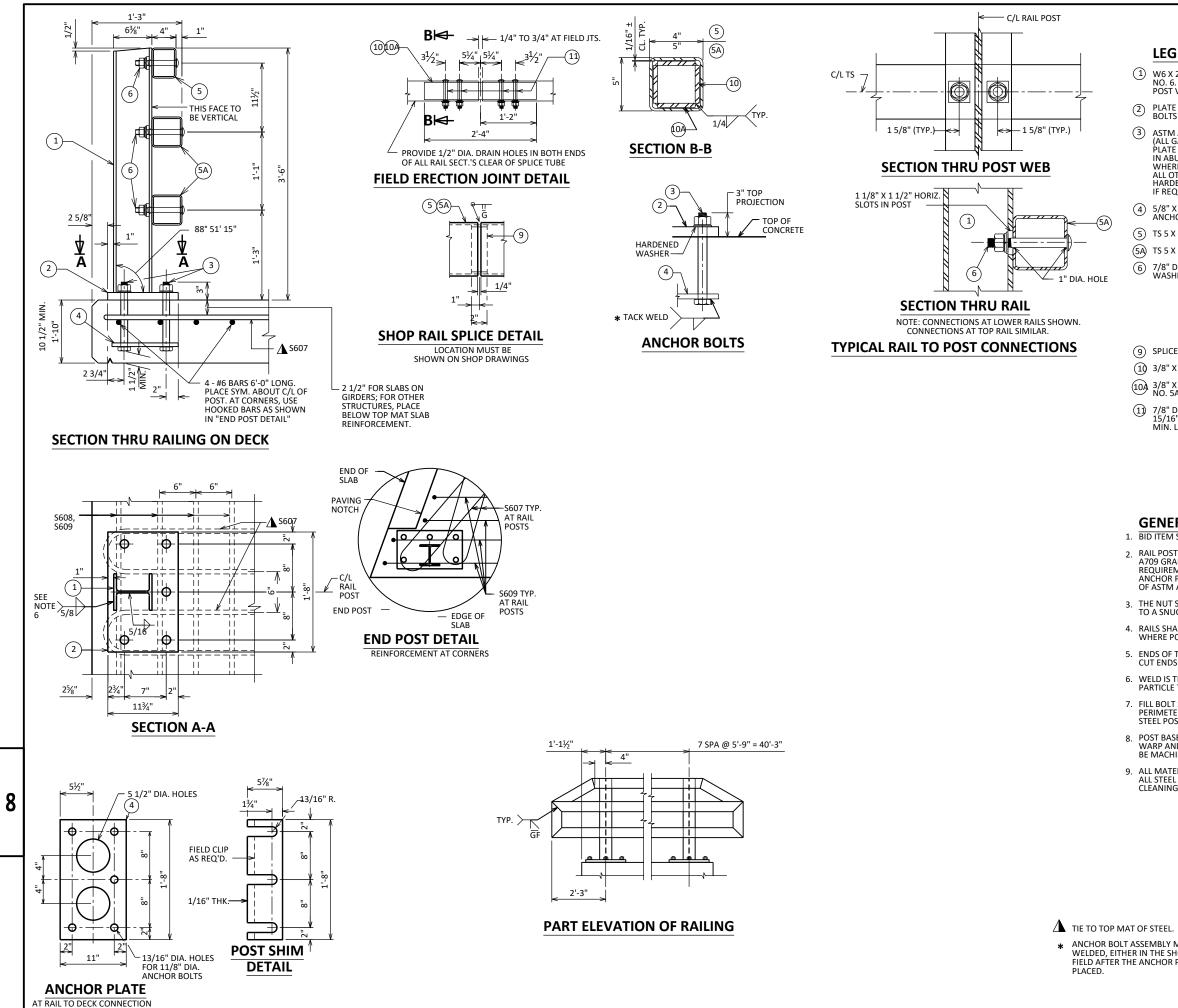
OPTIONAL KEYED CONST. JOINT ON WING FORMED BY BEVELED 2×6. IF JOINT IS USED, POUR CONCRETE ABOVE JOINT AFTER DECK IS IN PLACE AND PLACE 18" RMW ON BACK FACE OF WING, COST OF RMW INCLUDED IN BID ITEM "CONCRETE MASONRY BRIDGES".

3/4" "V" GROOVE ON FRONT FACE OF WING WALL, REQUIRED ONLY WHERE CONSTRUCTION JOINT IS USED.

F.F. = FRONT FACE B.F. = BACK FACE CL. = CLEAR

NO.	DATE	REVISION		BY
	C	STATE OF WISCONS DEPARTMENT OF TRANSPO		
	STRU	ICTURE B-48-	-58	
		DRAWN BY JMM	PLANS CK'D.	JAF
E٨	٩ST	ABUTMENT	SHEET 7	
	WIN	G DETAILS		





STATE PROJECT NUMBER

8857-00-70

LEGEND

(1) W6 X 25 WITH 1 1/8" X 1 1/2" HORIZ. 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.

PLATE 1 1/4" X 11 3/4" X 1'-8" WITH 1 7/16" DIA. OVERSIZED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN.

ASTM A449 - 1 1/8" 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 IN ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG. USE 10 3/4" 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.)

(4) 5/8" X 11" X 1'-8" ANCHOR PLATE (GALVANIZED) WITH 1 3/16" DIA. HOLES FOR ANCHOR BOLTS NO. 3

(5) TS 5 X 4 X 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.

(5A) TS 5 X 5 X 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.

6 7/8" DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, 3/16" X 1 5/8" X 1 5/8" 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".

(1) 3/8" X 3 5/8" X 2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.

(10), 3/8" X 2 5/8" X 2'-4" PLATE USED IN NO. 5, 3/8" X 3 5/8" X 2'-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" X 1 1/4" LONGIT. SLOTTED HOLES AT FIELD JOINTS AND 15/16" X 2 1/4" MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 10A.

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 ATOR CARE AST 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 1/8 TURN.

4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE. RAILS SHALL BE SPLICED IN A PANEL OVER EXPANSION JOINTS.

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

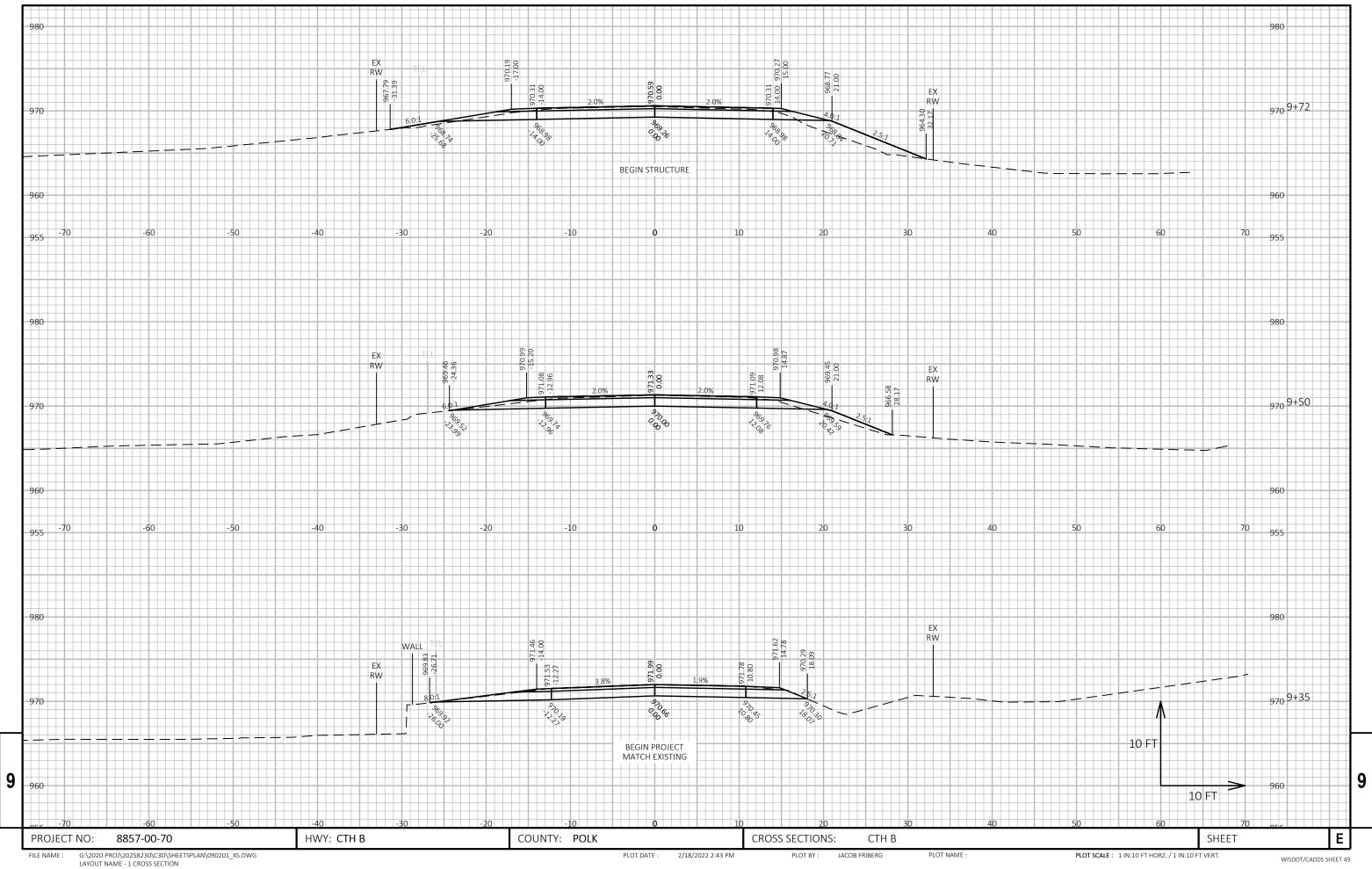
6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.

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.

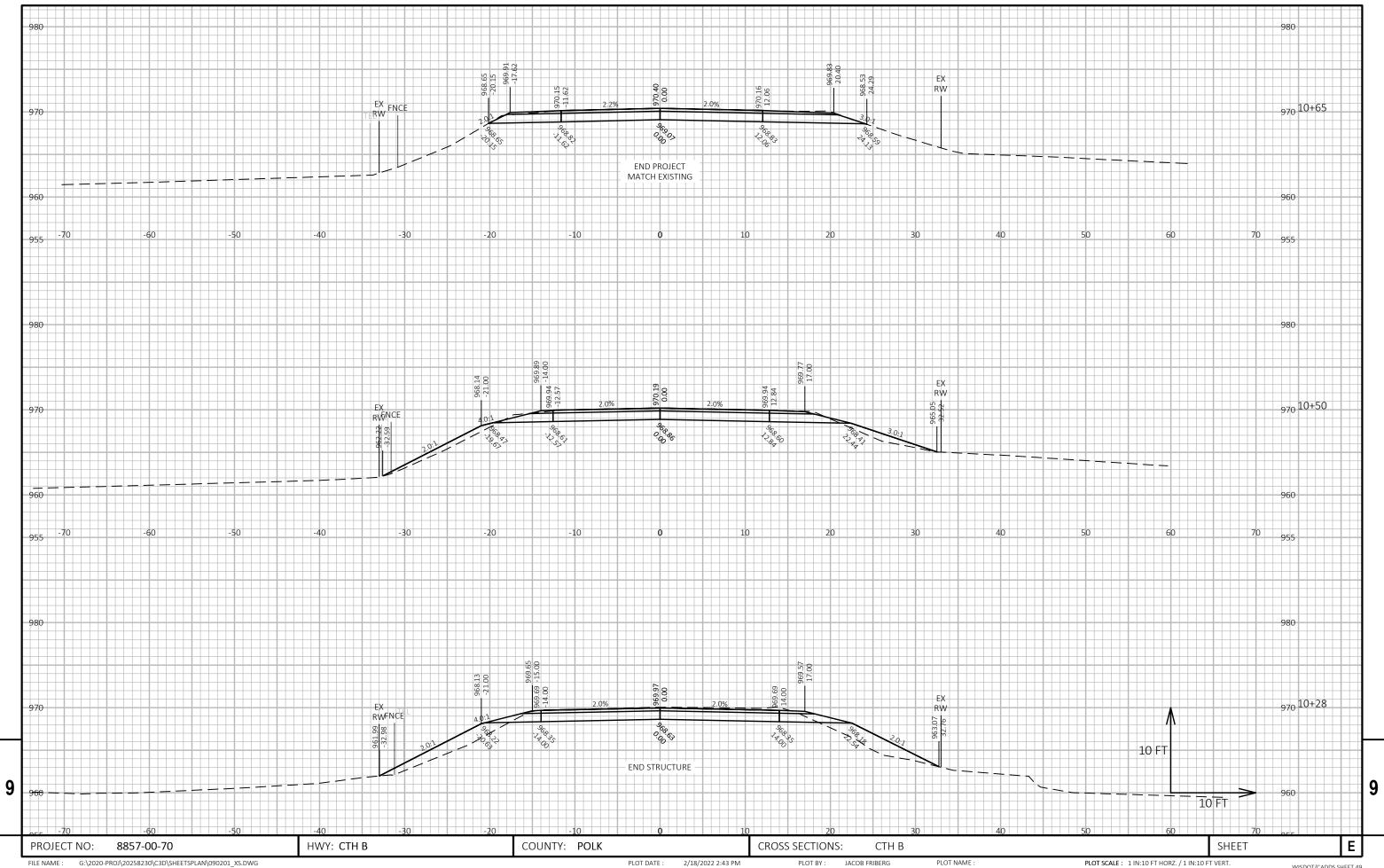
8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

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 SSPC SPECIFICATIONS.

	NO.	NO. DATE REVISION B						
		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION						
EL.	S	TRU	CTURE	B-	48-58	3		
Y MAY BE TACK SHOP, OR IN THE					DRAWN BY	PLANS JAF CK'D	SKP	1
DR PLATE IS		TUBULAR STEEL RAILING TYPE 'M'			SHEET 9			
	F						SALE =	



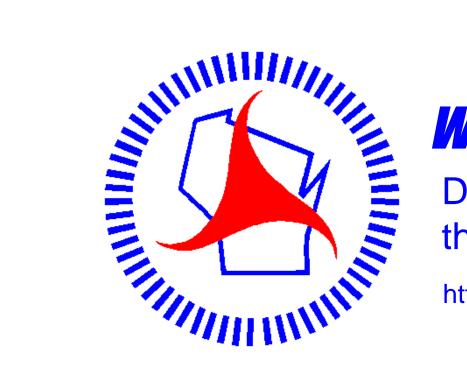
PLOT DATE : 2/18/2022 2:43 PM



G:\2020-PROJ\20258230\C3D\SHEETSPLAN\090201_XS.DWG LAYOUT NAME - 2 CROSS SECTION

PLOT DATE : 2/18/2022 2:43 PM PLOT BY :

WISDOT/CADDS SHEET 49



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

