

STANDARD ABBREVIATIONS

F/L

FT

GN

HR

ΗT

CWT

HYD

INI

ID

JCT

LE

LC

LCB

LS

Ν

OE

OL

OD

ОН PAVT

PLE

PC

PI

PT PCC

LB PE

RR

R

R OR RAD

~ OR R/L

REQD

RT R/W RD

MН

IN DIA

AC	ACRE
AGG	AGGREGATE
<	ANGLE
ASPH	ASPHALTIC
AC	ASPHALT CEMENT
ADT	AVERAGE DAILY TRAFFIC
В&В	BALLED AND BURLAPPED
BM	BENCH MARK
CB	CATCH BASIN
`OR C/L	CENTER LINE
C-C	CENTER TO CENTER
CONC	CONCRETE
CO	COUNTY
CTH	COUNTY TRUNK HIGHWAY
CY	CUBIC YARD
CULV	CULVERT
CP	CULVERT PIPE
CPRC	CULVERT PIPE
	REINFORCED CONCRETE
C & G	CURB AND GUTTER
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
DIA OR	DIAMETER
DIST	DISTRICT
DWY	DRIVEWAY
E	EAST
Х	EAST GRID COORDINATE
EB	EASTBOUND
ELEC	ELECTRIC
EL OR ELEV	ELEVATION
EMB	EMBANKMENT
EW	ENDWALL
ESALS	EQUIVALENT SINGLE
	AXLE LOADS
EXC	EXCAVATION
EBS	EXCAVATION BELOW
	SUBGRADE
EXIST	EXISTING
EXP	EXPANSION
F-F	FACE TO FACE
FERT	FERTILIZER
FE	FIELD ENTRANCE

FLOW LINE
FOOT
GRID NORTH
HANDICAP RAMP
HEIGHT
HUNDREDWEIGHT
HYDRANT
INCH DIAMETER
INLET
INSIDE DIAMETER
INTERSECTION ANGLE
INVERT ELEVATION
IRON PIPE OR PIN
JUNCTION
LENGTH OF CURVE
LINEAR FOOT
LONG CHORD OF CURVE
LONG CHORD BEARING
LUMP SUM
MANHOLE
NORTH
NORTH GRID COORDINATE
OUTLET ELEVATION
OUT LOT
OUTSIDE DIAMETER
OVERHEAD LINES
PAVEMENT
PERMANENT LIMITED EASEMENT
POINT OF CURVATURE
POINT OF INTERSECTION
POINT OF TANGENCY
PORTLAND CEMENT CONCRETE
POUND
PRIVATE ENTRANCE
RADIUS
RAILROAD RANGE
REFERENCE LINE REQUIRED
RIGHT
RIGHT-OF-WAY
ROAD
NOND

SALV SAN SECT SHLDR SW SS SB SPECS SQ SF OR SQ FT SY SSPRC STD STD STD STD STA STA STA STA T TEL TEMP TLE T TEMP TLE T TC TN TRANS T T TRANS T VAR VAR	SALVAGED SALVAGED SANITARY SEWER SECTION SHOULDER SIDEWALK SOUTH SOUTHBOUND SOUTHBOUND SPECIFICATIONS SQUARE SQUARE FEET SQUARE FEET SQUARE YARD STORM SEWER PIPE REINFORCED CONCRETE STANDARD DETAIL DRAWINGS STATE TRUNK HIGHWAYS STATION STANDARD DETAIL DRAWINGS STATE TRUNK HIGHWAYS STATE TEMPORARY TELEPHONE TEMPORARY TELEPHONE TEMPORARY
VAR	
VOL	
WM	VOLUME WATER MAIN
WV	WATER MAIN WATER VALVE
W	WATER VALVE WEST
WB	WEST
YD	YARD

# UTILITIES

# **BURIED COMMUNICATIONS**

CENTURYLINK 425 ELLINGSON AVENUE P.O. BOX 78 HAWKINS, WI 54530 ATTN: BEN BAKER PHONE: (715) 532-0023 ben.baker@centurylink.com

# OVERHEAD ELECTRIC

JUMP RIVER ELECTRIC COOPERATIVE 1102 WEST 9TH STREET NORTH P.O. BOX 99 LADYSMITH, WI 54848 ATTN: SAM HOWARD PHONE: (715) 532-5524 showard@jrec.com

# **SECTION 2 ORDER**

GENERAL NOTES TYPICAL SECTIONS

# **GENERAL NOTES**

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

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

THE 4" ASPHALTIC SURFACE SHALL CONSIST OF A  $1\frac{3}{4}$ " UPPER LAYER WITH NO. 4 (12.5 MM) NOMINAL SIZE AGGREGATE AND A 2  $\frac{1}{4}$  " LOWER LAYER WITH NO. 3 (19.0 MM) NOMINAL SIZE AGGREGATE.

RIGHT OF WAY LOCATIONS ARE APPROXIMATE.

* - NOT A MEMBER OF DIGGERS HOTLIN
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RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
	A			В		С			D			
	SLOPE	RANGE	(PERCENT)	SLOPE	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:						1		•	1	•		
ASPHAL T						.7095						
CONCRETE	.8095											
BRICK	BRICK .7080											
DRIVES, WALKS .7585												
R00FS .7595												
GRAVEL ROADS.	SHOULDE	ERS				.4060						

TOTAL PROJECT AREA = 0.26 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.09 ACRES

PROJECT NO: 8771-00-70		HWY: CTH M	COUNTY: RUSK			GENERAL NOTES			
FILE NAME : P:\6700S\6740S\6747\06747026\CADD\S	HEETSPLAN\020101-GN.DWG			PLOT DATE :	7/26/2021 3:17 PM	PLOT BY :	COURTNEY ROOYAKKERS	PLOT NAME :	

FILE NAME 0S\6747\06747026\CADD\SHEETSPLAN\020101-GN.DWG LAYOUT NAME - 020101-gn

PLOT BY : COURTNEY ROOYAKKERS PLOT NAME

UNCL USH VAR VERT VC VOL WM

# **DESIGN CONTACT**

MSA PROFESSIONAL SERVICES, INC. 146 NORTH CENTRAL AVE MARSHFIELD, WI 54449 ATTN: SEAN SPROMBERG, PE PHONE: (715) 304-0451 sspromberg@msa-ps.com

# COUNTY CONTACT

RUSK COUNTY HIGHWAY DEPARTMENT N4711 HIGHWAY 27 LADYSMITH, WI 54848 ATTN: SCOTT R. EMCH, COMMISSIONER PHONE: (715) 532-2634 semch@ruskcountywi.us

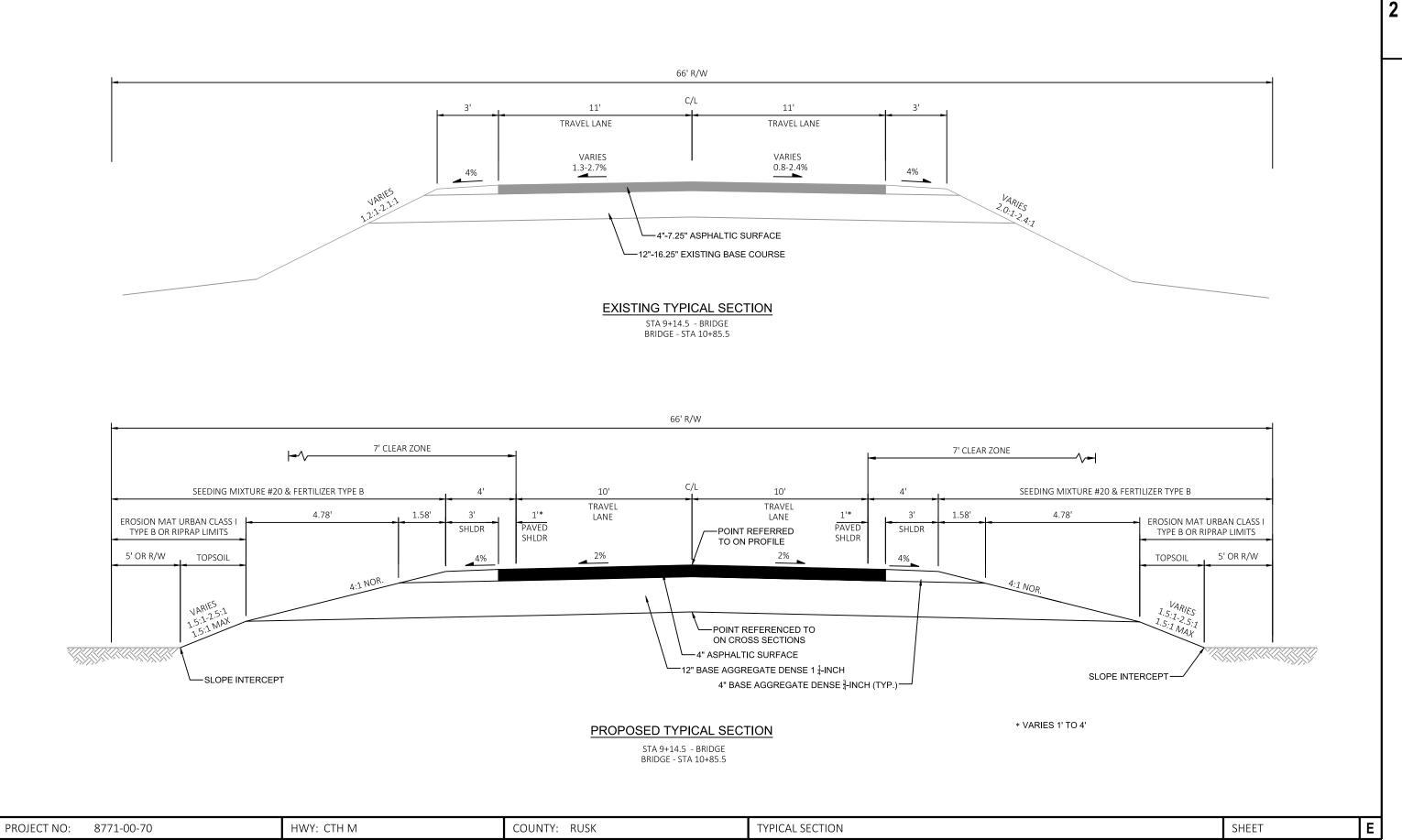
# DNR CONTACT

WISCONSIN DEPARTMENT OF NATURAL RESOURCES 1300 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 ATTN: LEAH NICOL PHONE: (715) 934-9014 leah.nicol@wisconsin.gov

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# **Estimate Of Quantities**

					8771-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	2.000	2.000
004	201.0205	Grubbing	STA	2.000	2.000
0006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. B-54-0002	EACH	1.000	1.000
8000	205.0100	Excavation Common	CY	153.000	153.000
0010	206.1000	Excavation for Structures Bridges (structure) 01. B-54-0135	LS	1.000	1.000
0012	210.1500	Backfill Structure Type A	TON	304.000	304.000
0014	213.0100	Finishing Roadway (project) 01. 8771-00-70	EACH	1.000	1.000
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	10.000	10.000
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	240.000	240.000
0020	455.0605	Tack Coat	GAL	18.000	18.000
0022	465.0105	Asphaltic Surface	TON	68.000	68.000
0024	502.0100	Concrete Masonry Bridges	CY	178.000	178.000
0026	502.3200	Protective Surface Treatment	SY	229.000	229.000
0028	502.3210	Pigmented Surface Sealer	SY	98.000	98.000
0030	503.0137	Prestressed Girder Type I 36W-Inch	LF	288.000	288.000
0032	505.0400	Bar Steel Reinforcement HS Structures	LB	3,430.000	3,430.000
0034	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	21,630.000	21,630.000
0036	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	8.000	8.000
0038	506.4000	Steel Diaphragms (structure) 01. B-54-0135	EACH	3.000	3.000
0040	516.0500	Rubberized Membrane Waterproofing	SY	20.000	20.000
0042	550.0500	Pile Points	EACH	14.000	14.000
0044	550.2126	Piling CIP Concrete 12 3/4 X 0.375-Inch	LF	420.000	420.000
0046	606.0300	Riprap Heavy	CY	229.000	229.000
0048	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	200.000	200.000
0050	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000
0052	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8771-00-70	EACH	1.000	1.000
0054	619.1000	Mobilization	EACH	1.000	1.000
0056	624.0100	Water	MGAL	6.000	6.000
0058	625.0100	Topsoil	SY	125.000	125.000
0060	628.1504	Silt Fence	LF	300.000	300.000
0062	628.1520	Silt Fence Maintenance	LF	300.000	300.000
0064	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0066	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0068	628.2008	Erosion Mat Urban Class I Type B	SY	125.000	125.000
0070	628.6005	Turbidity Barriers	SY	153.000	153.000
0072	628.7504	Temporary Ditch Checks	LF	30.000	30.000
0074	628.7570	Rock Bags	EACH	40.000	40.000
0076	629.0210	Fertilizer Type B	CWT	0.470	0.470
0078	630.0120	Seeding Mixture No. 20	LB	5.000	5.000
0080	630.0200	Seeding Temporary	LB	7.000	7.000
0082	630.0500	Seed Water	MGAL	6.000	6.000
0084	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0086	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0088	638.2602	Removing Signs Type II	EACH	4.000	4.000
0090	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0092	642.5001	Field Office Type B	EACH	1.000	1.000
0094	643.0420	Traffic Control Barricades Type III	DAY	2,025.000	2,025.000
0096	643.0705	Traffic Control Warning Lights Type A	DAY	3,000.000	3,000.000
0098	643.0900	Traffic Control Signs	DAY	1,500.000	1,500.000

# 10/11/2021 07:12:43 Page 1 3

	Estimate Of Quantities						
					8771-00-70		
Line	Item	Item Description	Unit	Total	Qty		
0100	643.5000	Traffic Control	EACH	1.000	1.000		
0102	645.0111	Geotextile Type DF Schedule A	SY	62.000	62.000		
0104	645.0120	Geotextile Type HR	SY	361.000	361.000		
0106	650.4500	Construction Staking Subgrade	LF	100.000	100.000		
0108	650.5000	Construction Staking Base	LF	100.000	100.000		
0110	650.6500	Construction Staking Structure Layout (structure) 01. B-54-0135	LS	1.000	1.000		
0112	650.9910	Construction Staking Supplemental Control (project) 01. 8771-00-70	LS	1.000	1.000		
0114	650.9920	Construction Staking Slope Stakes	LF	100.000	100.000		
0116	690.0150	Sawing Asphalt	LF	66.000	66.000		
0118	715.0502	Incentive Strength Concrete Structures	DOL	1,070.000	1,070.000		
0120	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000		
0122	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000		

# 10/11/2021 07:12:43 Page 2

# **RIPRAP & GEOTEXTILE**

- STATION	STATION
- 10+84	10+50

LT TOTALS

LOCATION

LT

RT

LT

RT

TOTALS:

STATION

9+85

10+21

Undistributed

STATION - STATION

9+14.5 - 9+85

9+14.5 - 9+78

10+25 - 10+75

10+25 - 10+75

UNDISTRIBUTED

EARTHWORK S	SUMMARY		
205.0100	SALVAGED/ UNUSABLE PAVEMENT		MASS ORDINATE
EXC. COMMON	MATERIAL	EXPANDED FILL	+/-

CLEARING AND GRUBBING

LOCATION

RT & LT

TOTALS:

STATION

10+85.5

201.0105

CLEARING

STA

2

2

201.0205

GRUBBING

STA

2

2

LOCATION	CY (1)	CY (2)	CY (3)	CY (4)
STA 9+14.5 - STA. 9+63.25	80	16	41	39
STA 10+36.75 - STA 10+85	73	16	12	61
TOTALS:	153		53	100

(1) - IT IS ASSUMED CUT MATERIAL IS AVAILABLE FOR BACKFILL

STATION

9+14.5 -

(2) - EXISTING ASPHALT IS ASSUMED TO BE UNUSABLE MATERIAL.

(3) - FILL EXPANSION 30%

(4) - THE MASS ORDINATE + OR - QUANTITY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THAT DIVISION. MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

			BASE AGGREGATE		
			305.0110	305.0120	624.0100
			BASE	BASE	WATER
			AGGREGATE	AGGREGATE	
			DENSE	DENSE	
			3/4-INCH	1 1/4-INCH	
STATION	-	STATION	TON	TON	MGAL
9+28	-	9+74	5	120	3
10+26	-	10+72	5	120	3
		TOTALS:	10	240	6

TACK COAT & ASPHALTIC SURFACE

STATION - STATION

9+14.50 - 9+64.50

10+35.50 - 10+85.50

TOTALS:

455.0605

TACK COAT

GAL

9

9

18

						EROSION CO	NTROL	
				625.0100	628.2008	628.7504	628.7570	629.0
				TOPSOIL	EROSION MAT	TEMPORARY	ROCK	FERTI
					URBAN CLASS I	DITCH	BAGS	TYP
					TYPE B	CHECKS		
STATION	-	STATION	LOCATION	SY	SY	LF	EA	CM
9+14.5	-	9+49.25	RT	55	55	10	10	0.0
9+14.5	-	9+49.25	LT	40	40	10	10	0.0
10+50.75	-	10+68	RT	20	20	10	10	0.0
10+50.75		10+85.50	LT	-	-	-	10	-
UNDIS	STRIE	BUTED		10	10	-	-	0.3
		TOTALS:		125	125	30	40	0.4

PROJECT NO: 8771-00-70	HWY: CTH M	COUNTY: RUSK	MISCELLANEOUS QUANTITIES	
FILE NAME : N:\PDS\\030200_mq.pptx		PLOT DATE :	PLOT BY : A.R.H.	PLOT NAME :

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465.0105

ASPHALTIC

SURFACE

TON

33

35

68

	606.0300	645.0120
	RIPRAP	GEOTEXTILE
	HEAVY	TYPE HR
LOCATION	CY	SY
LT	30	63
TOTALS:	30	63

# SILT FENCE

628.1504	628.1520
SILT FENCE	SILT FENCE
	MAINTENANCE
LF	LF
72	72
68	68
55	55
55	55
50	50
300	300

# TURBIDITY BARRIERS

	628.6005
	TURBIDITY
	BARRIERS
LOCATION	SY
LT & RT	64
LT & RT	69
-	20
TOTAL:	153

629.0210	630.0120	630.0120	630.0500
RTILIZER	SEEDING	SEEDING	SEED
TYPE B	MIXTURE NO. 20	TEMPORARY	WATER
CWT	LB	LB	MGAL
0.05	1	2	2
0.05	1	2	2
0.02	1	1	1
-	-	-	-
0.35	2	2	1
0.47	5	7	6

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SHEET:

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PLOT SCALE : 1:1

						SIGNING		
				637.2230	634.0612	638.2602	638.3000	
				SIGNS TYPE II	WOOD	REMOVING	REMOVING SMALL	
		SIGN		REFLECTIVE F	POSTS	SIGNS TYPE II	SIGN SUPPORTS	
STATION	LOCATION	CODE	SIZE	SF	EACH	EACH	EACH	COMMENTS
9+64.5	LT	W5-52L	12"x36"	3	1	-	-	OBJECT MARKER
9+70	RT	-	-	-	-	1	1	EXISTING OBJECT MARKER
9+64.5	RT	W5-52R	12"x36"	3	1	-	-	OBJECT MARKER
9+70	LT	-	-	-	-	1	1	EXISTING OBJECT MARKER
10+35.5	LT	W5-52R	12"x36"	3	1	-	-	OBJECT MARKER
10+30.5	RT	-	-	-	-	1	1	EXISTING OBJECT MARKER
10+35.5	RT	W5-52L	12"x36"	3	1	-	-	OBJECT MARKER
10+30.5	LT	-	-	-	-	1	1	EXISTING OBJECT MARKER
		TOTALS:		12	4	4	4	

TRAFFIC CONTROL ITEMS							
			643.0420		643.0705		643.0900
		TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC
		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
		BARRICADES	BARRICADES	WARNING	WARNING	SIGNS	SIGNS
		TYPE III	TYPE III	LIGHTS	LIGHTS		
				TYPE A	TYPE A		
LOCATION	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS
POLGAR RD	75	2	150	4	300	5	375
BEGINNING OF PROJECT	75	7	525	10	750	2	150
END OF PROJECT	75	7	525	10	750	2	150
CRANBERRY RD	75	7	525	10	750	4	300
BLUEBERRY RD	75	2	150	4	300	5	375
UNDISTRUBUTED	75	2	150	2	150	2	150
TOTALS:			2,025		3,000		1,500

	CONSTRUCTION STAKING							
			650.4500 650.5000 650.9					
			SUBGRADE	BASE	SLOPE			
STATION	-	STATION	LF	LF	LF			
9+14.5	-	9+64.5	50	50	50			
10+35.5	-	10+85.5	50	50	50			
		TOTALS:	100	100	100			

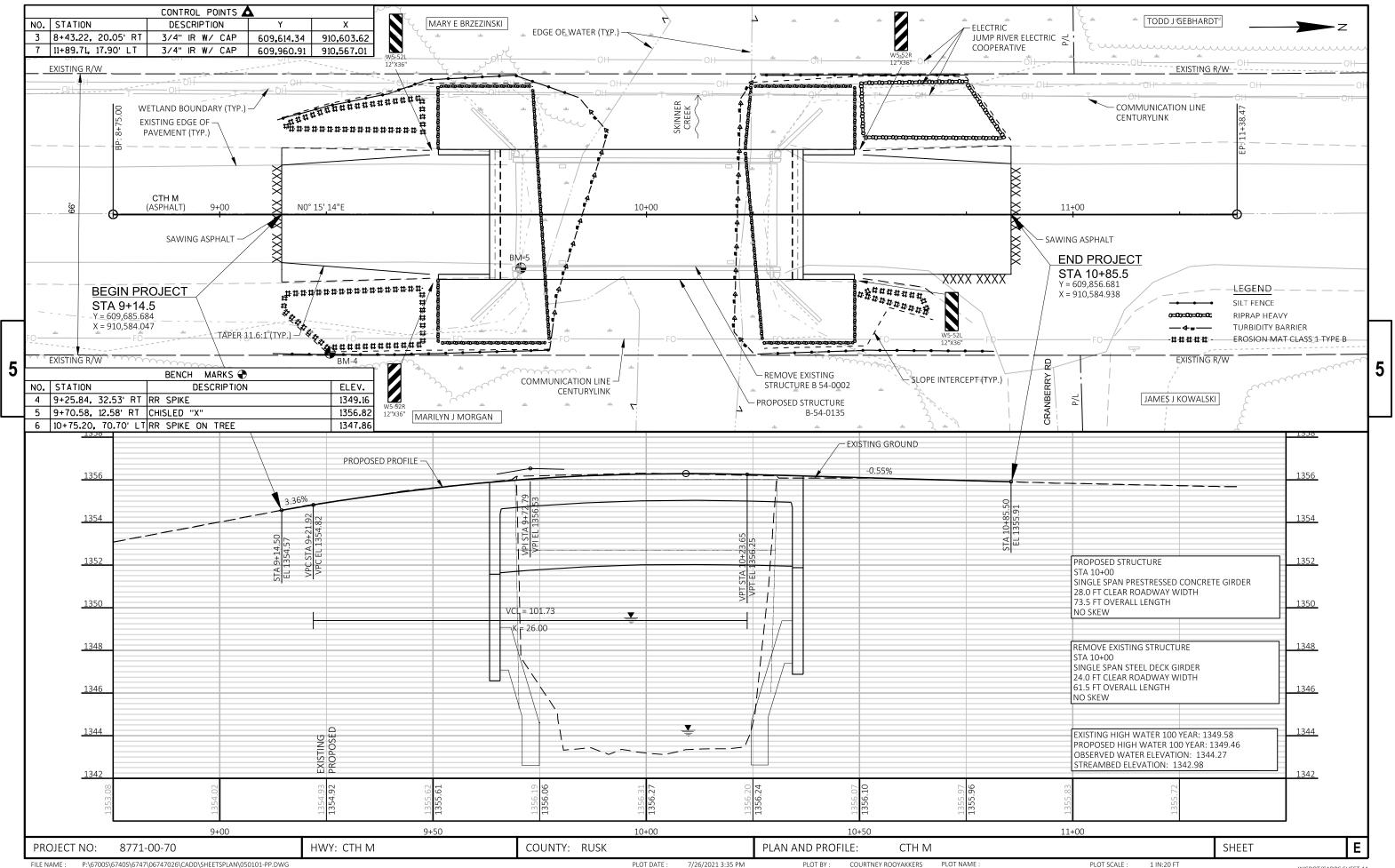
PROJECT NO: 8771-00-70	HWY: CTH M	COUNTY: RUSK	MISCELLANEOUS QUANTITIES	
FILE NAME : N:\PDS\\030200_mq.pptx		PLOT DATE :	PLOT BY : A.R.H. PLO	T NAME :

SAWING A	ASPHALT
	690.0150
	SAWING
	ASPHALT
STATION	LF
9+14.5	22
10+85.5	44
TOTAL:	66

SHEET:

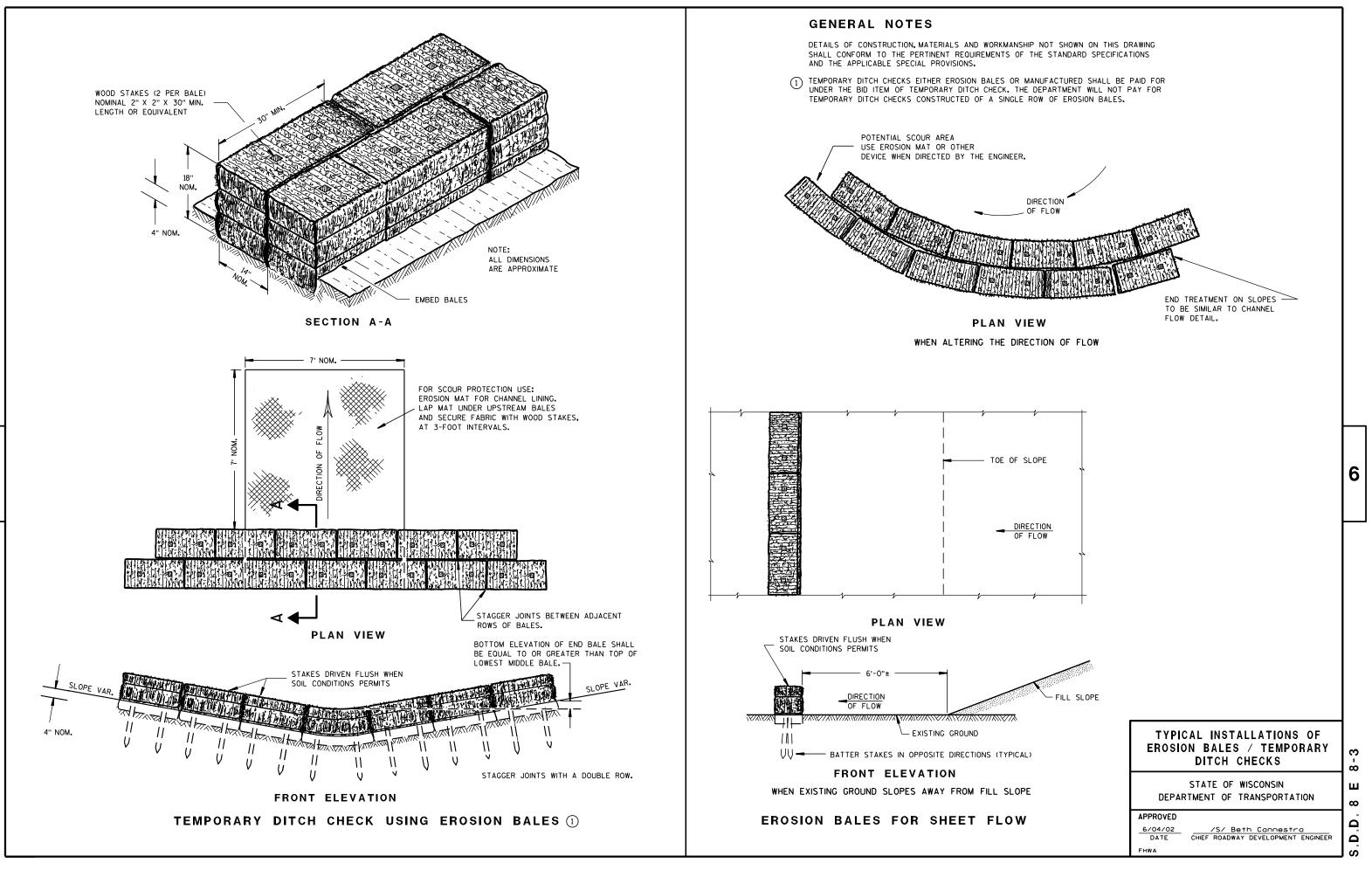
PLOT SCALE : 1:1

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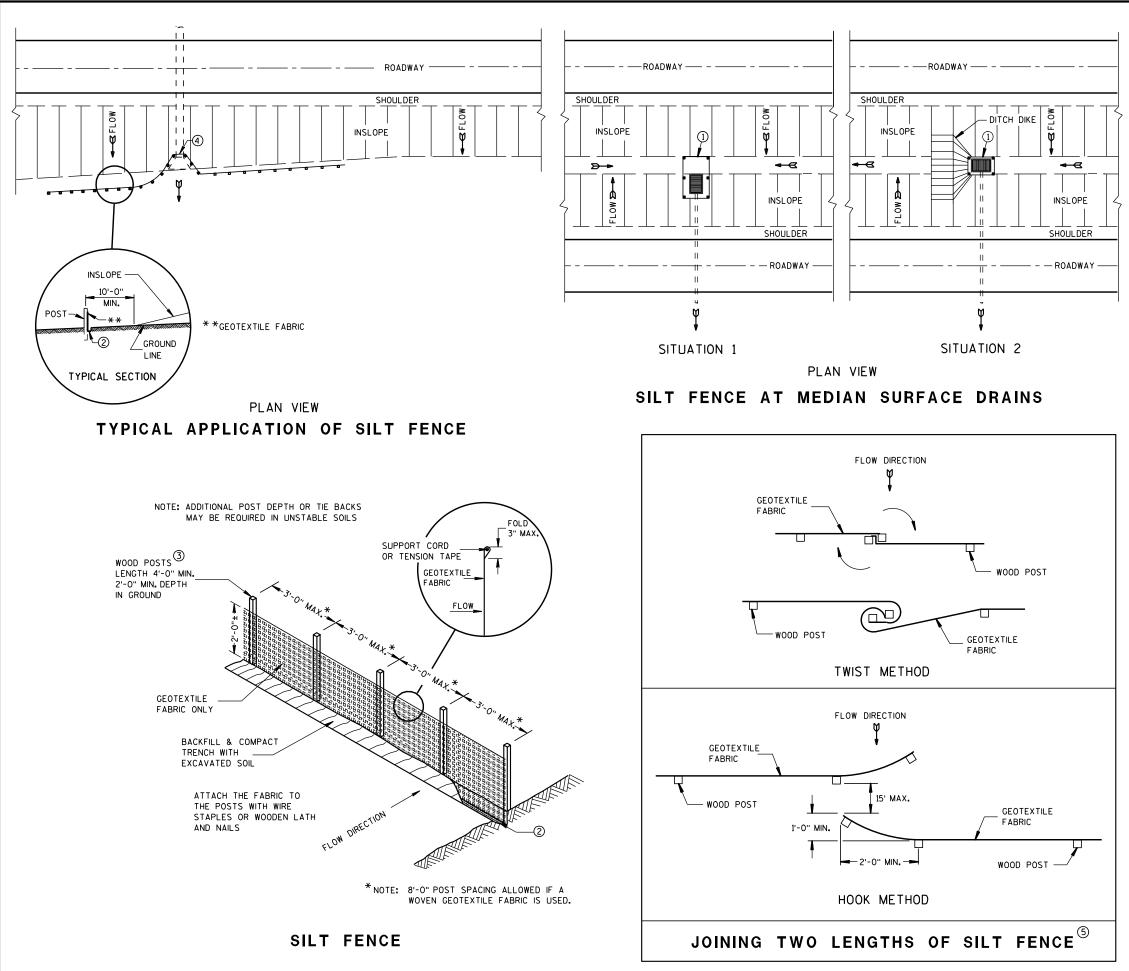
# Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
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
15C03-05	BARRI CADES AND SI GNS FOR SI DEROAD CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



S,D,D, 8 E 8

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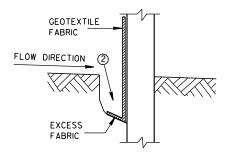
S.D.D. 8 E 9

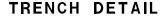
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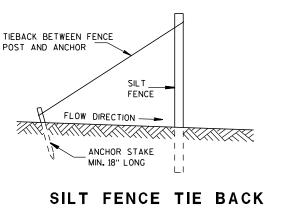
# **GENERAL NOTES**

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

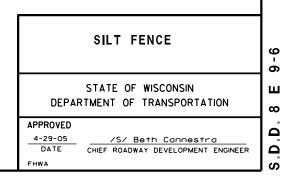
- $\bigcirc$  horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3) WOOD POSTS SHALL BE A MINIMUM SIZE OF  $1/_8$ " X  $1/_8$ " OF OAK OR HICKORY.
- (4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

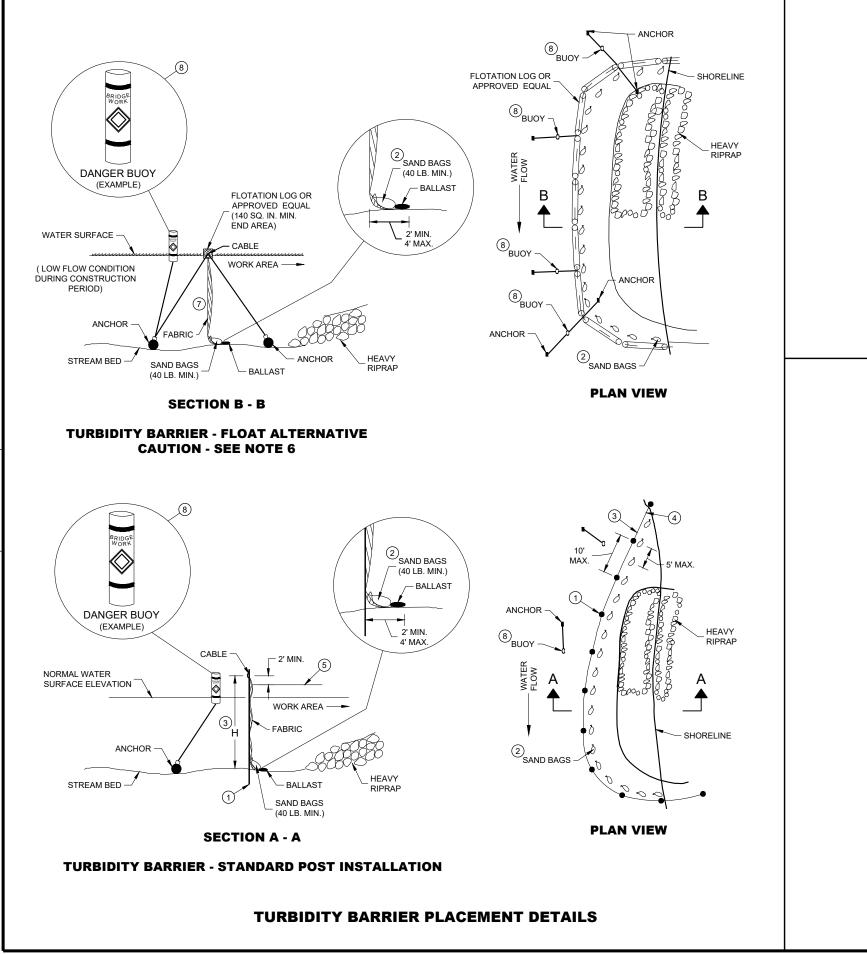




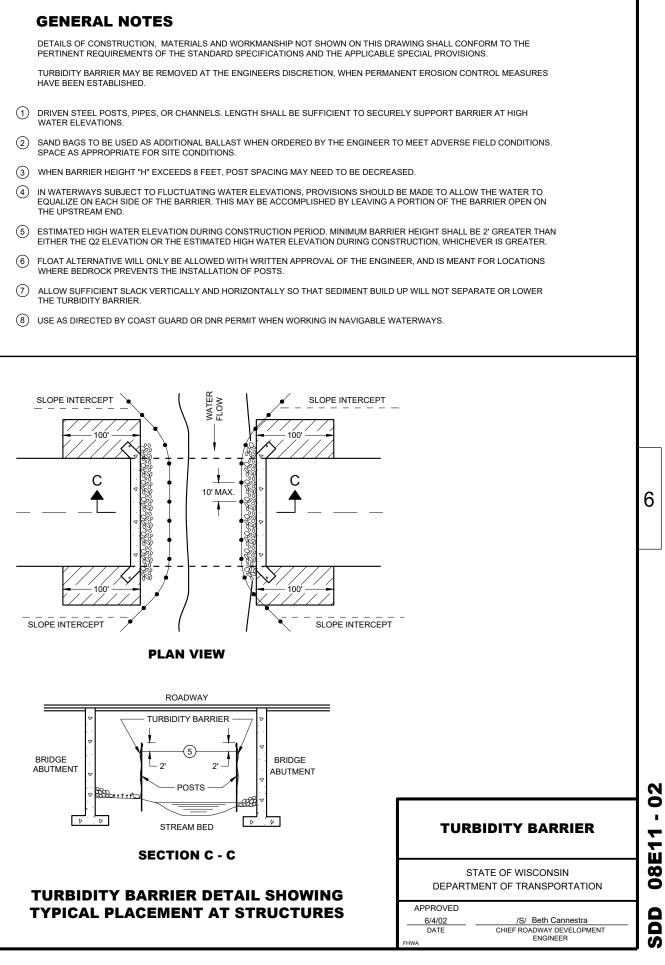


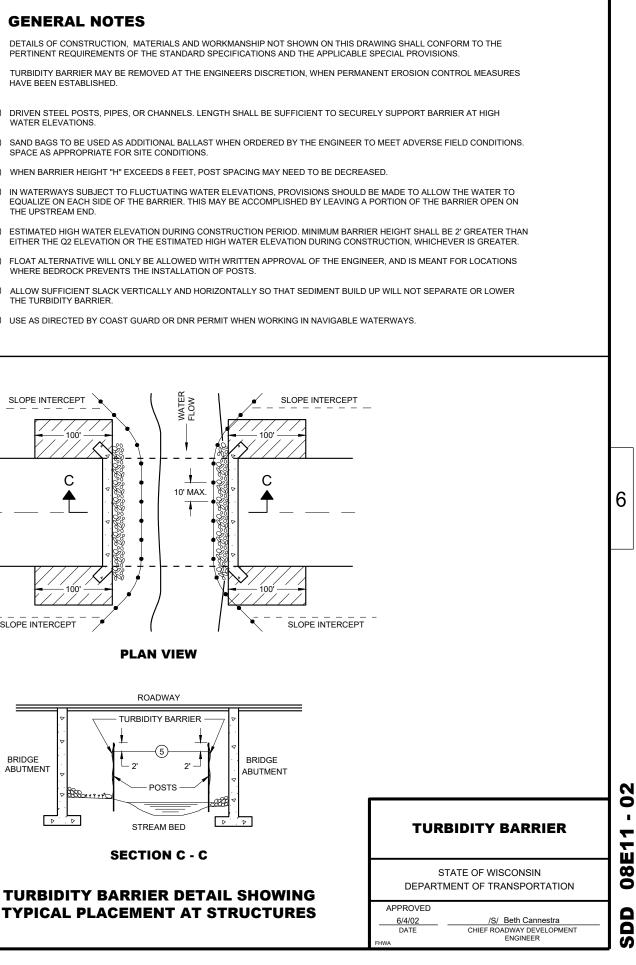
(WHEN REQUIRED BY THE ENGINEER)



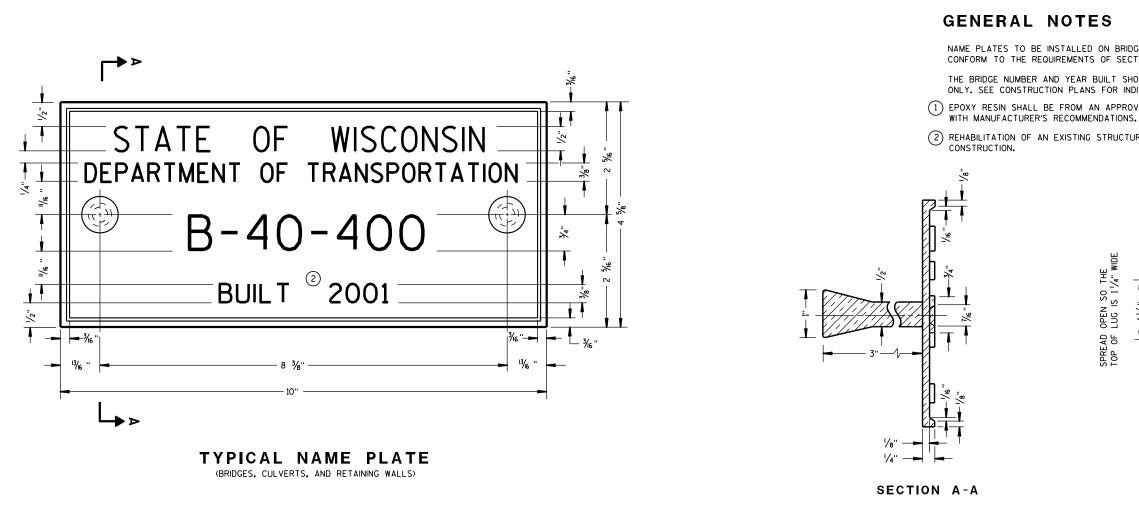


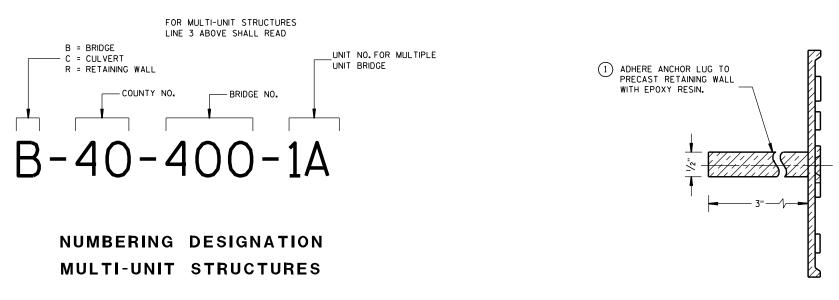
- WATER ELEVATIONS.





SDD 08E -02



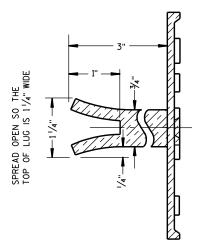


ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT. (1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE

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



# ALTERNATE LUG

# NAME PLATE (STRUCTURES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

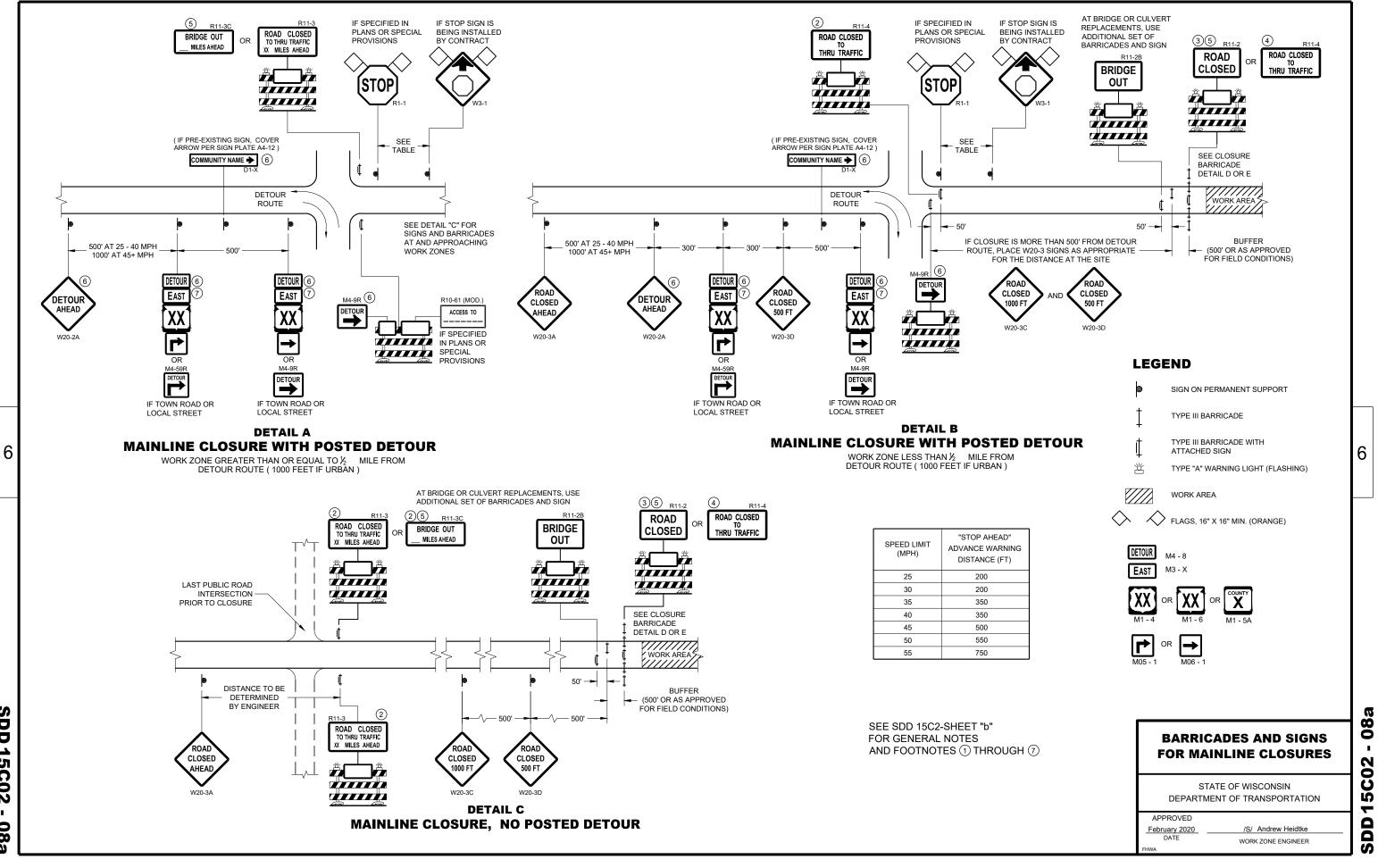
# APPROVED

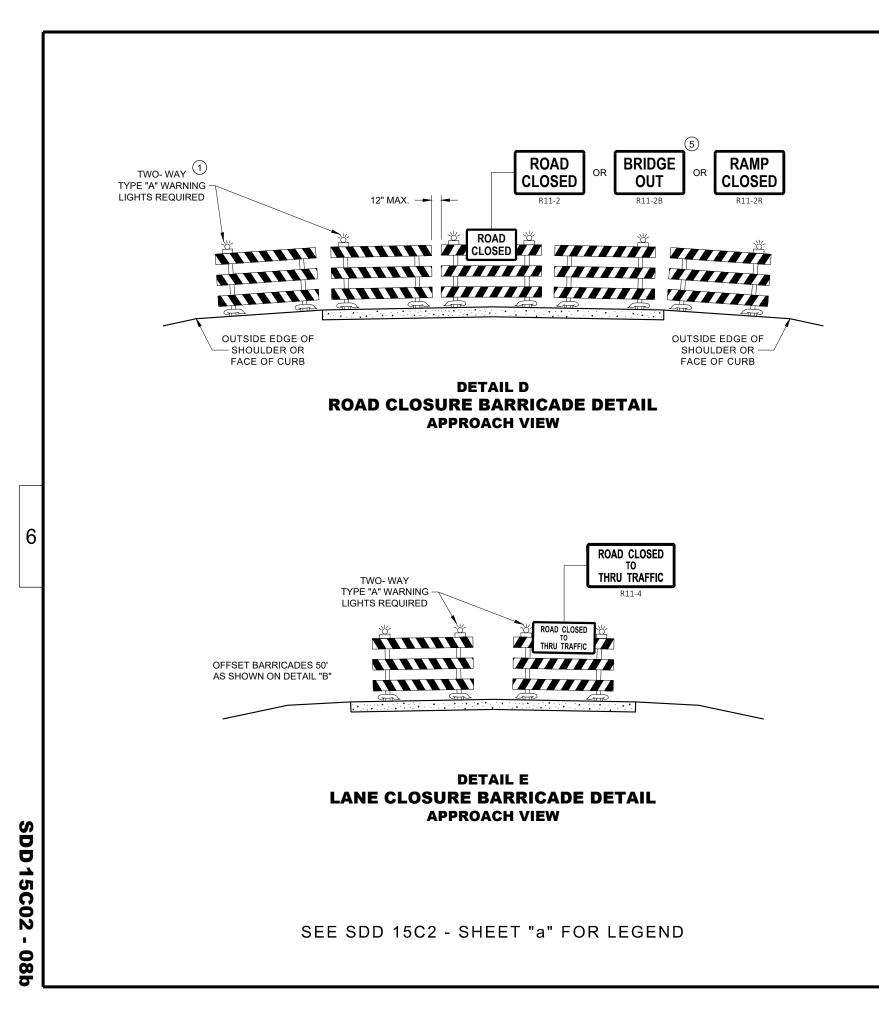
3/26/10 DATE FHWA

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

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# **GENERAL NOTES**

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

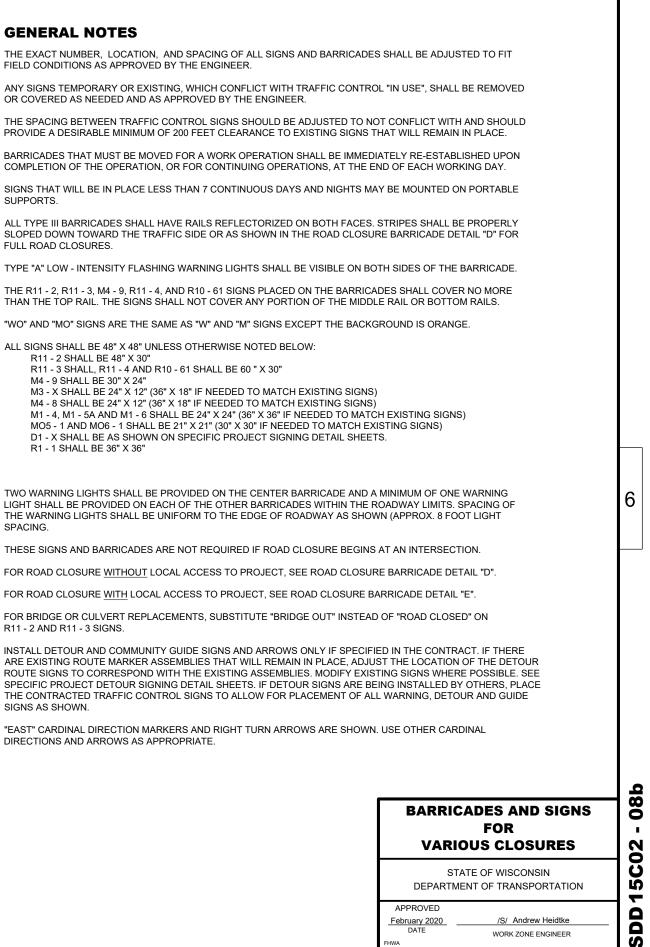
FULL ROAD CLOSURES.

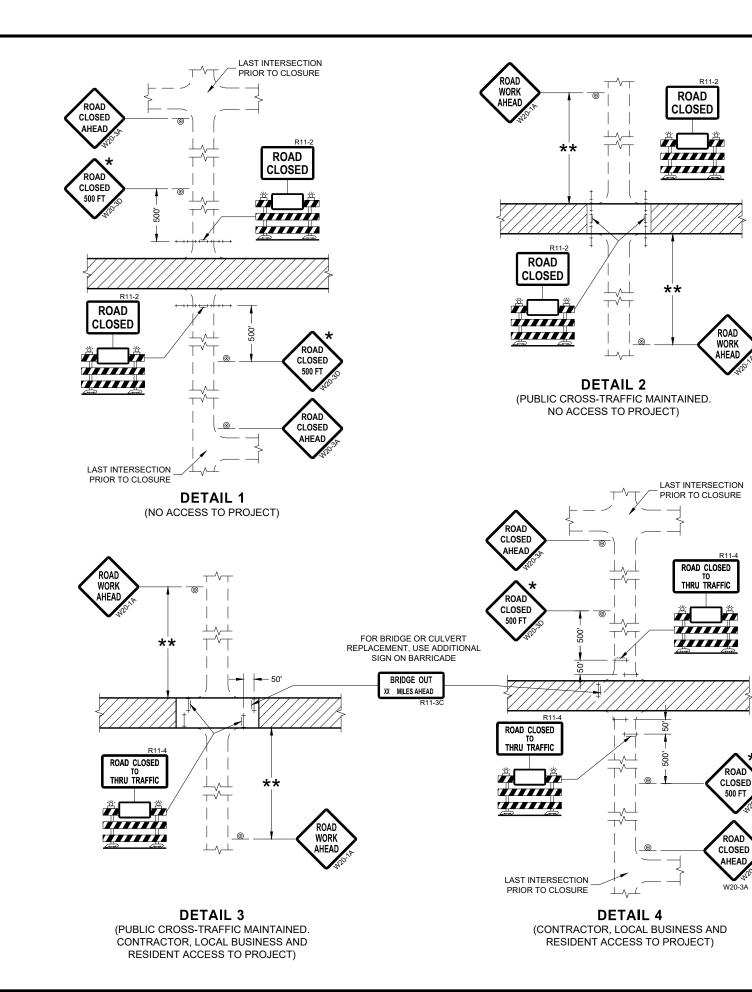
THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"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)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.





# **GENERAL NOTES**

AS APPROVED BY THE ENGINEER.

NEEDED AND AS APPROVED BY THE ENGINEER.

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

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

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

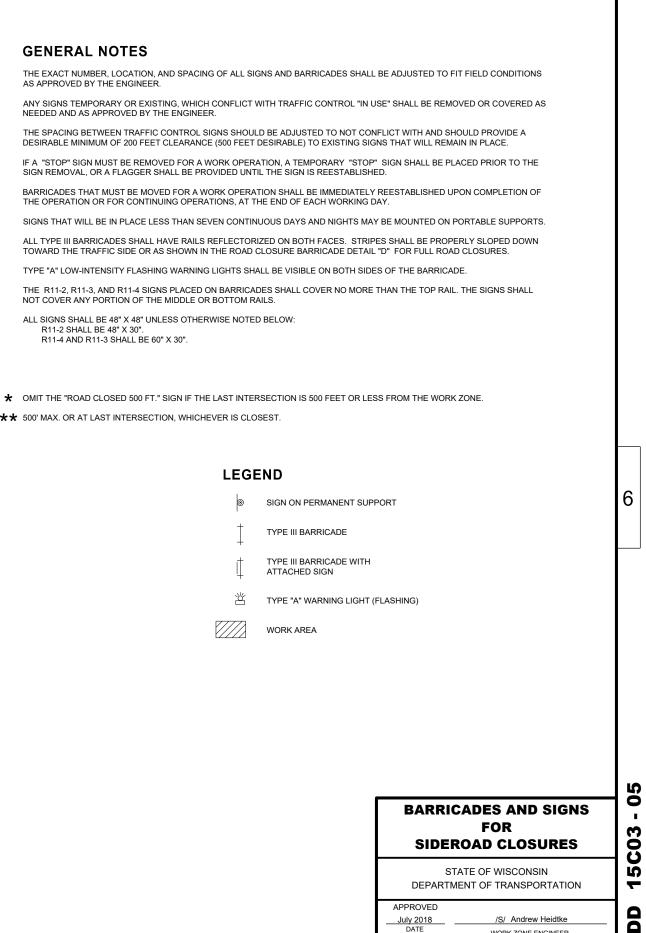
NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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

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

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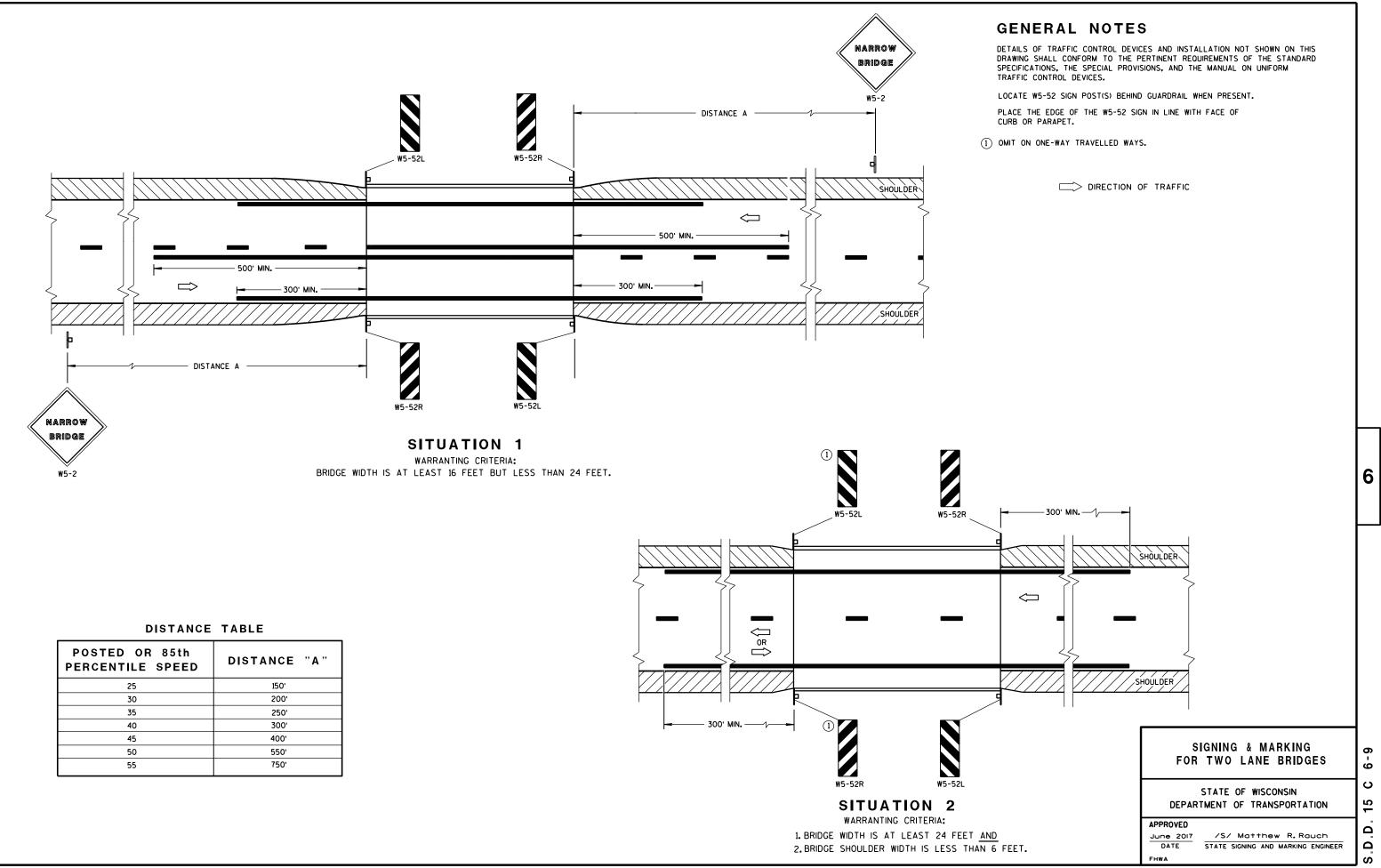
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WORK ZONE ENGINEER

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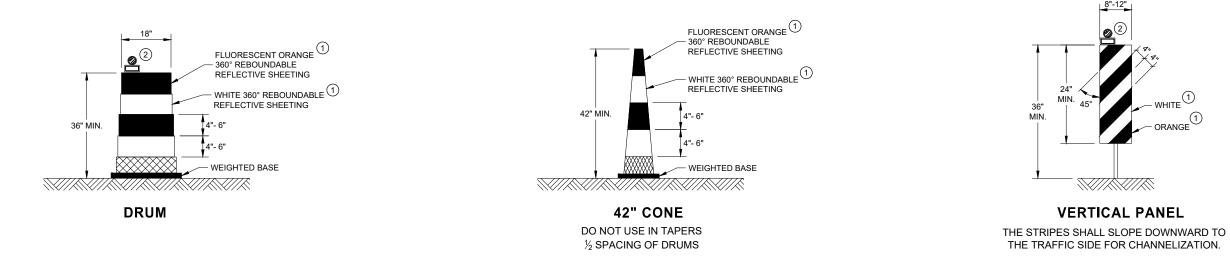
July 2018 DATE

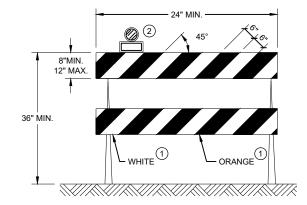


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# **GENERAL NOTES**

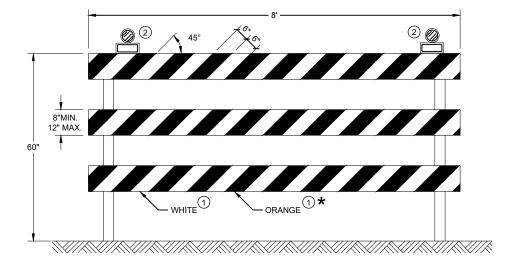
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





**TYPE II BARRICADE** 

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



# **TYPE III BARRICADE**

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

★ IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

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

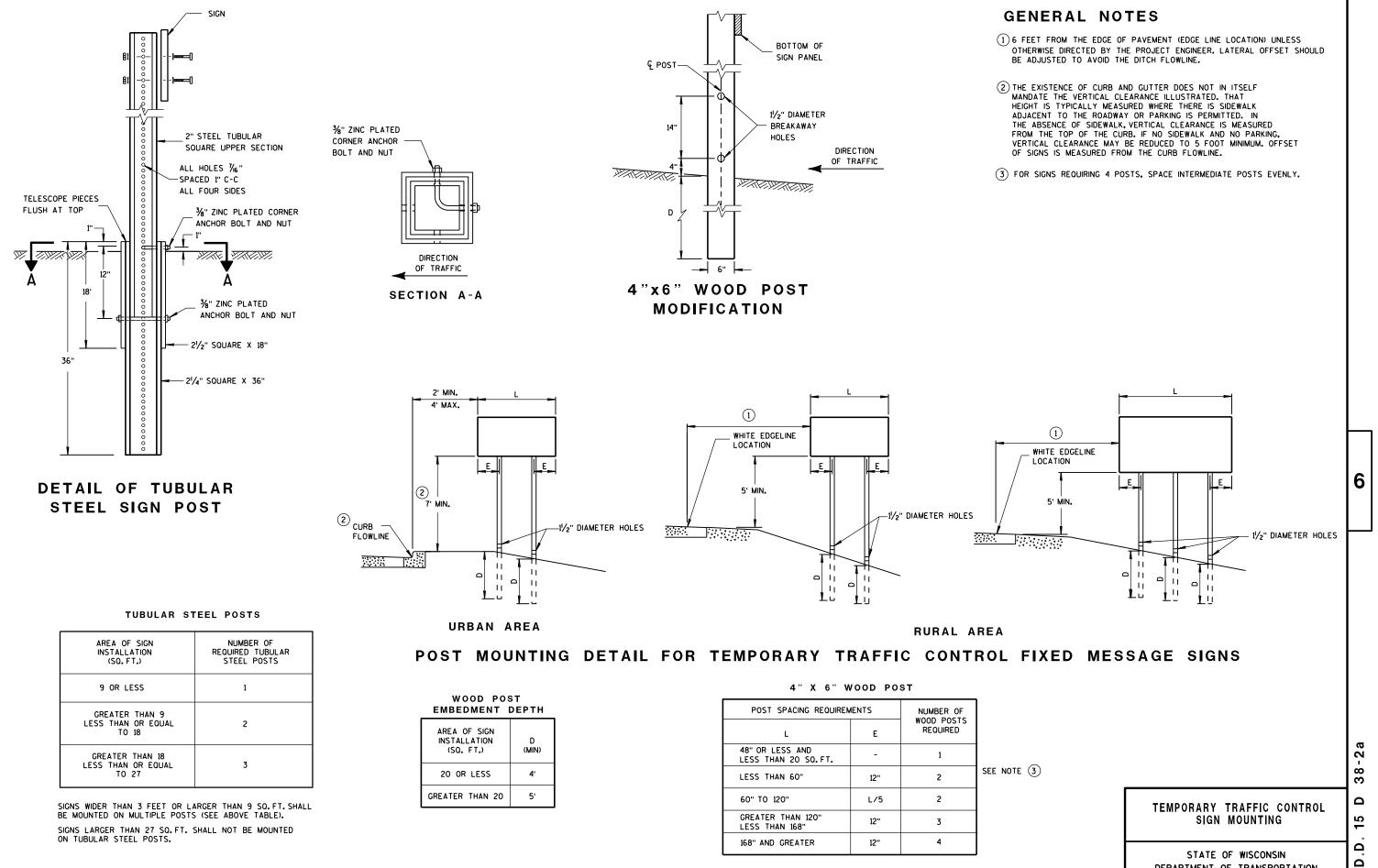
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# **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES** AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2021 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER



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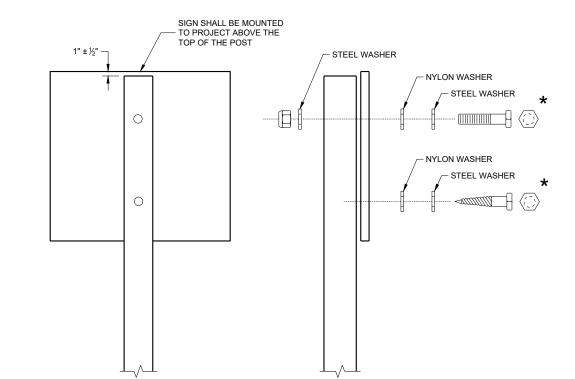
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DEPARTMENT OF TRANSPORTATION

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SDD 15D38 - 02b

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

> A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
> B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POST (4" x 6") LAG SCREWS - ¾" x 3" MACHINE BOLTS - ½6" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2") MACHINE BOLTS - ¾" x 3 ¼" LENGTH W/NUTS RIVETS - ½" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -1 ¼" O.D. x ¾" I.D. x ½6" STEEL 1 ¼" O.D. x ¾" I.D. x 0.080 NYLON

★ TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

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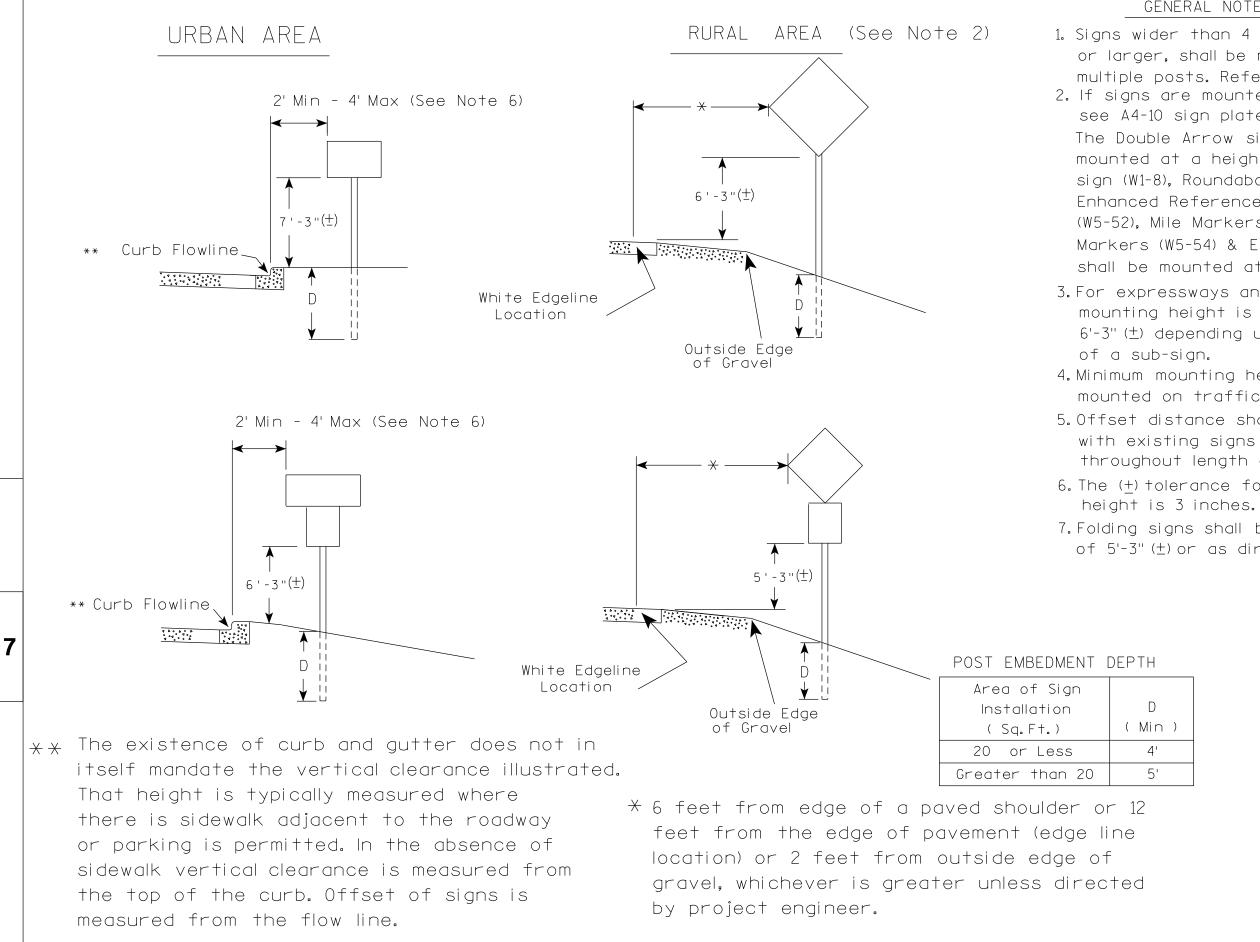
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# ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED June 2017 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

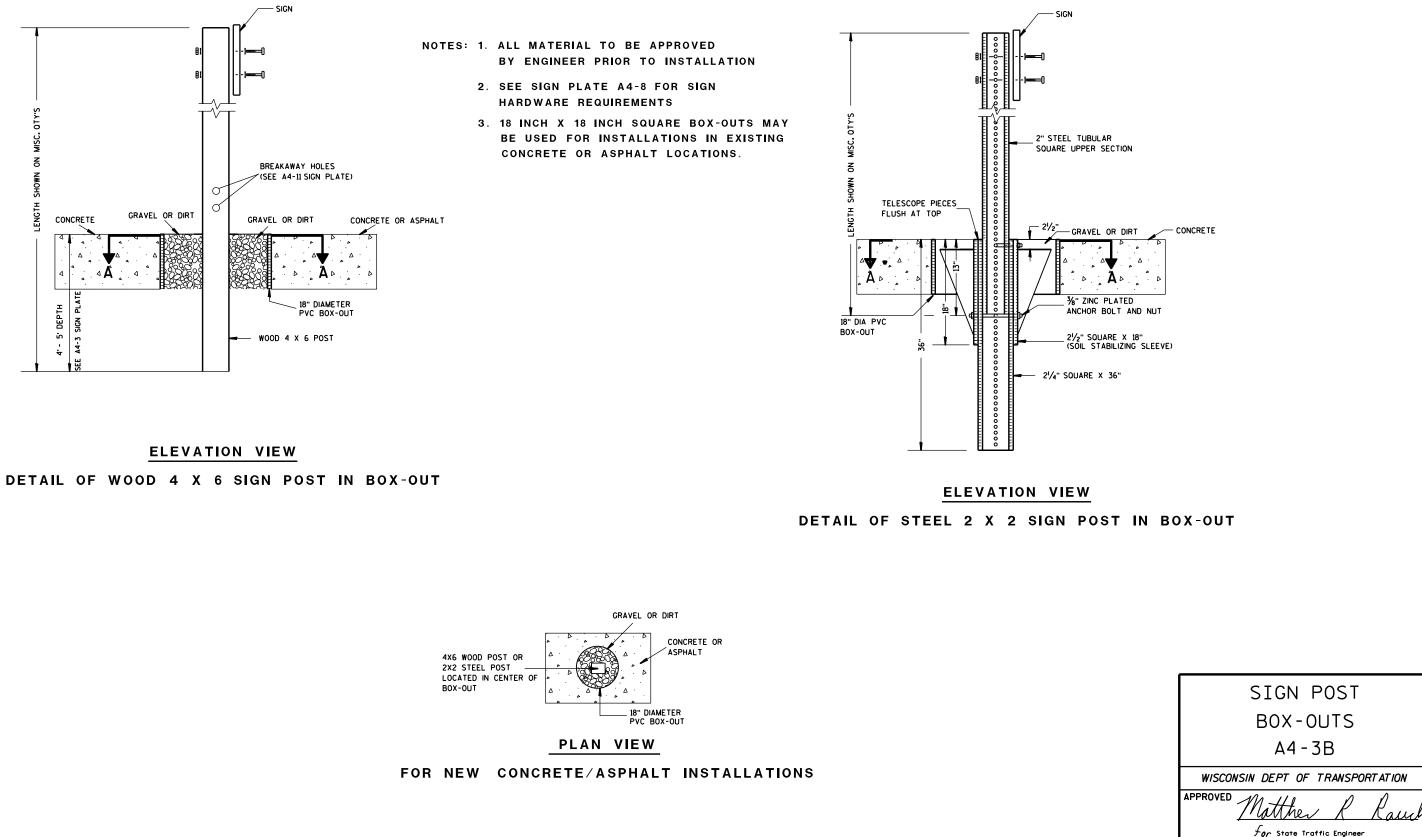


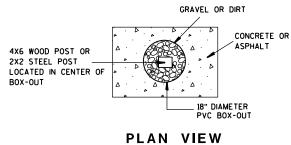
PROJECT NO:	HWY:	COUNTY:			
			DI AT DITE : 47 HUN 0000 4 4	DI OT DY IN IO	DLOT NAME -

# 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





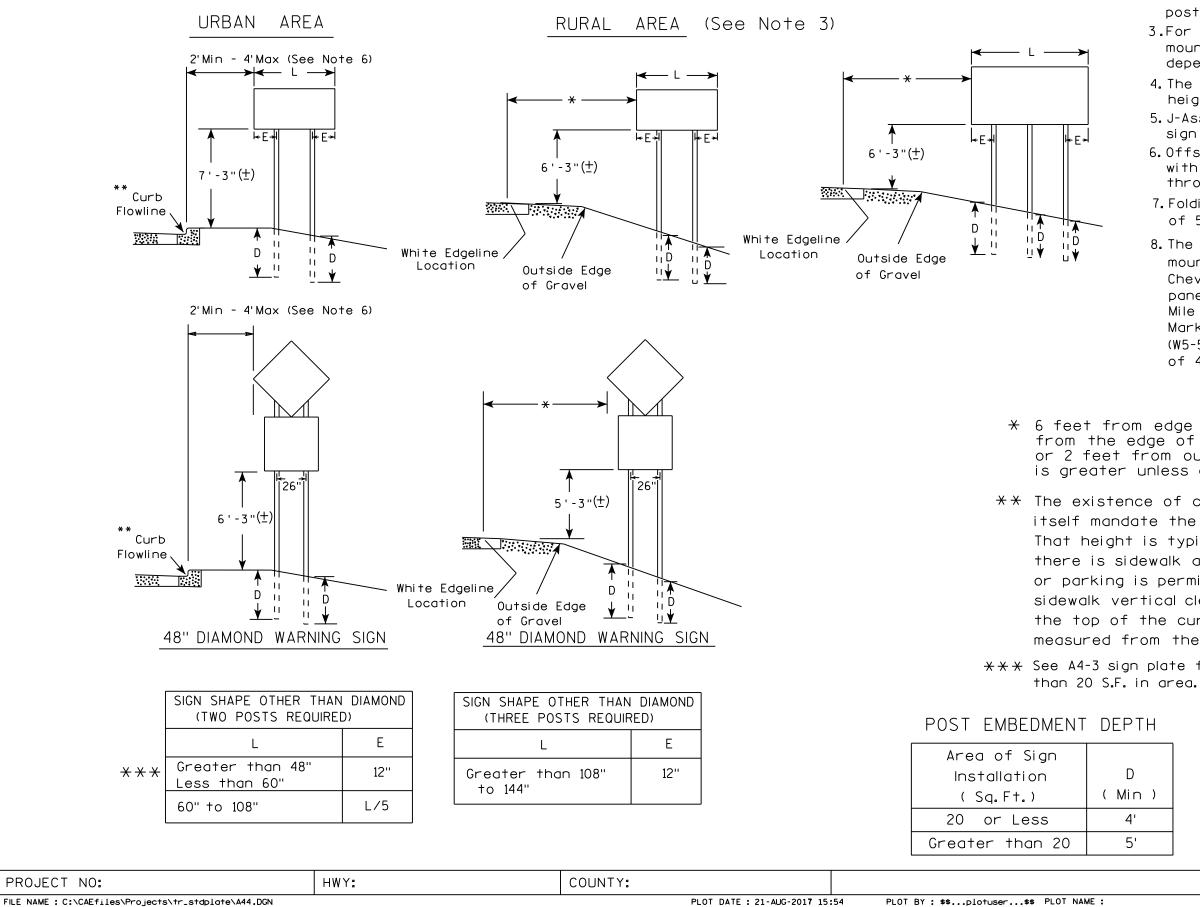
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

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

SHEET NO:

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

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

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GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3.For expressways and freeways, mounting height is  $7'-3''(\pm)$  or  $6'-3''(\pm)$ depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3"  $(\pm)$  or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3'' (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

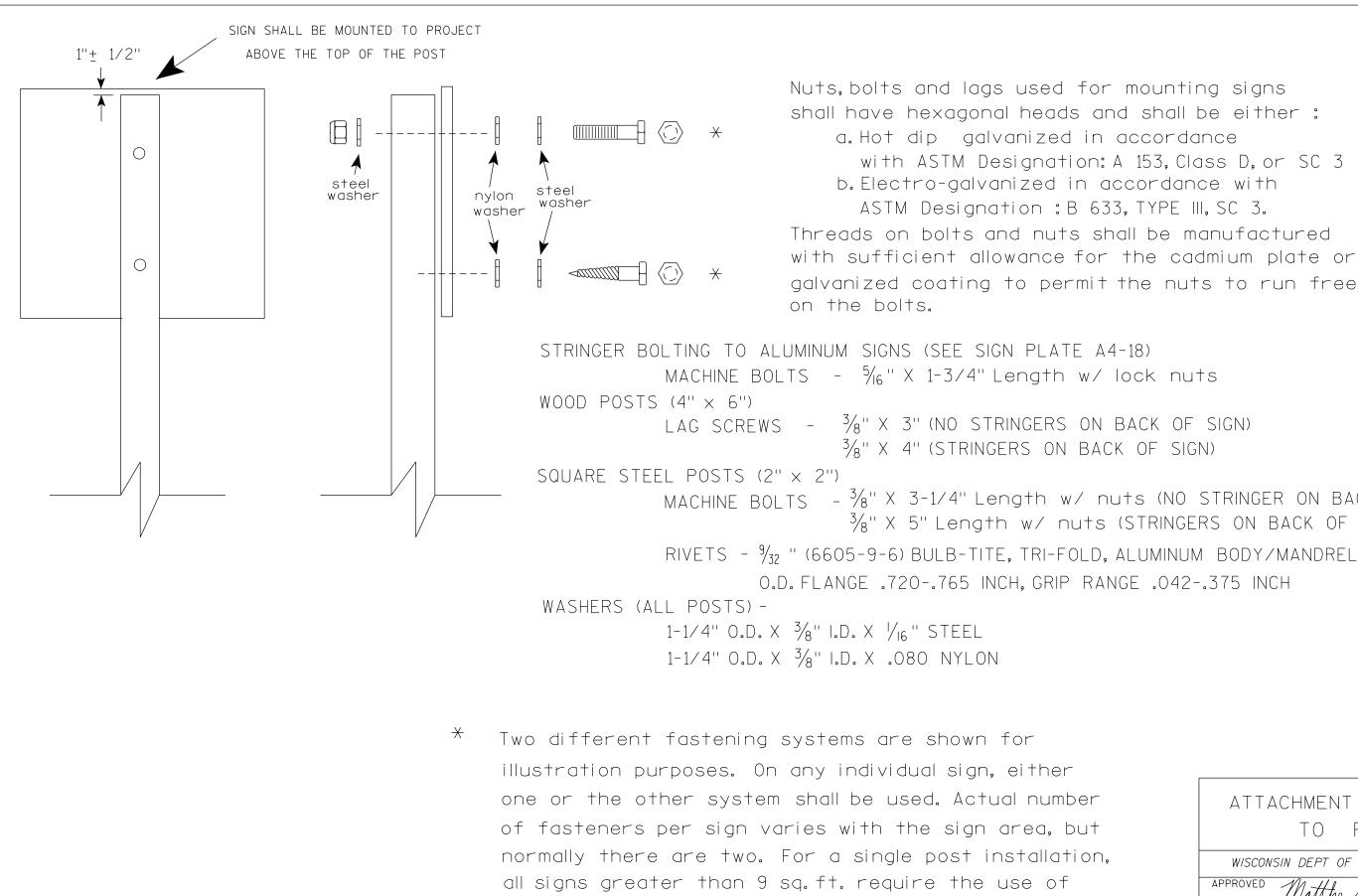
\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of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

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

H	TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS
)	WISCONSIN DEPT OF TRANSPORTATION
,	APPROVED Matther & Rauch
	For State Traffic Engineer
	DATE 8/21/17 PLATE NO. 44-4.15
	SHEET NO: E
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PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



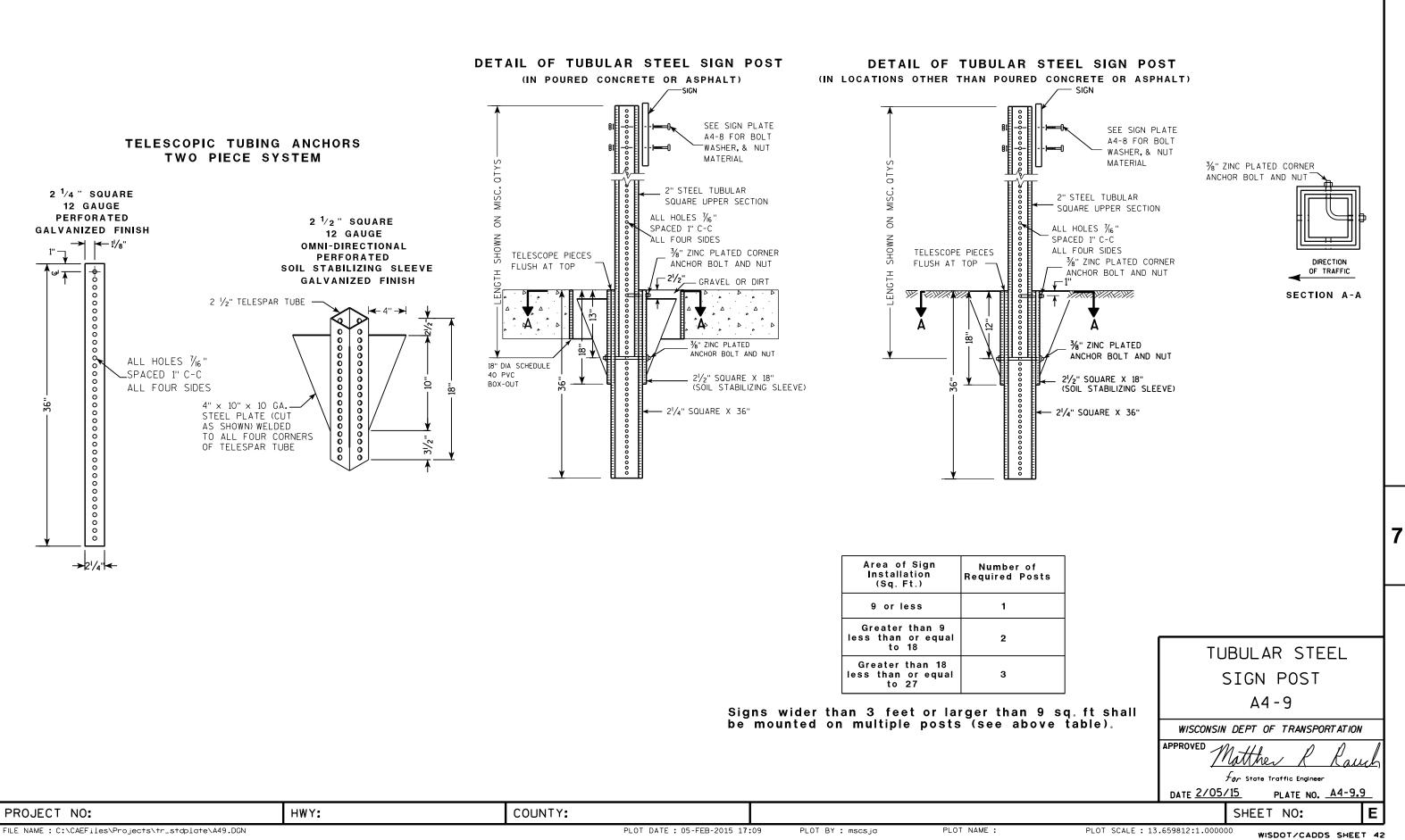
3 fasteners.

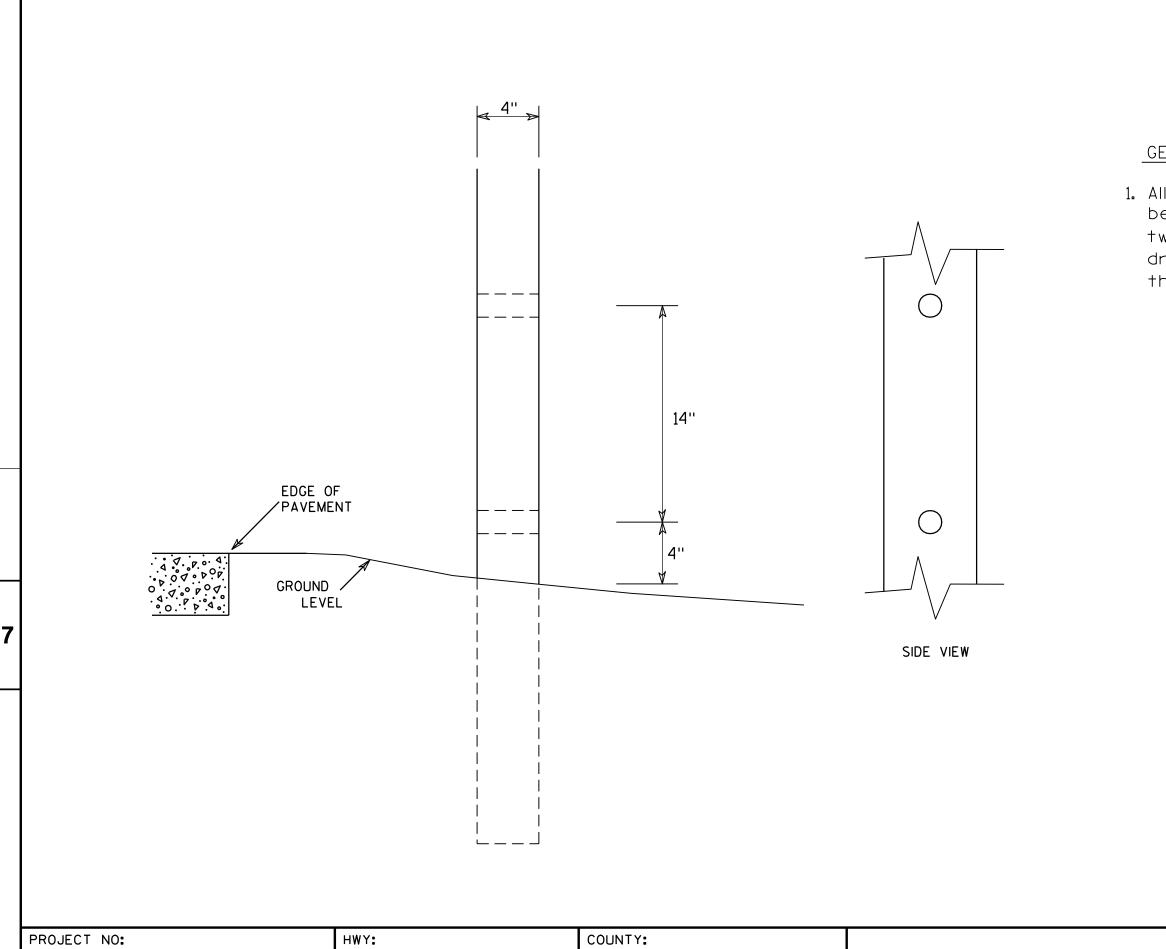
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured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

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

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

ATTACHMENT OF SIGNS TO POSTS
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
For State Traffic Engineer
DATE <u>4/1/202</u> 0 plate no. <u>A4-8.9</u>
SHEET NO: E



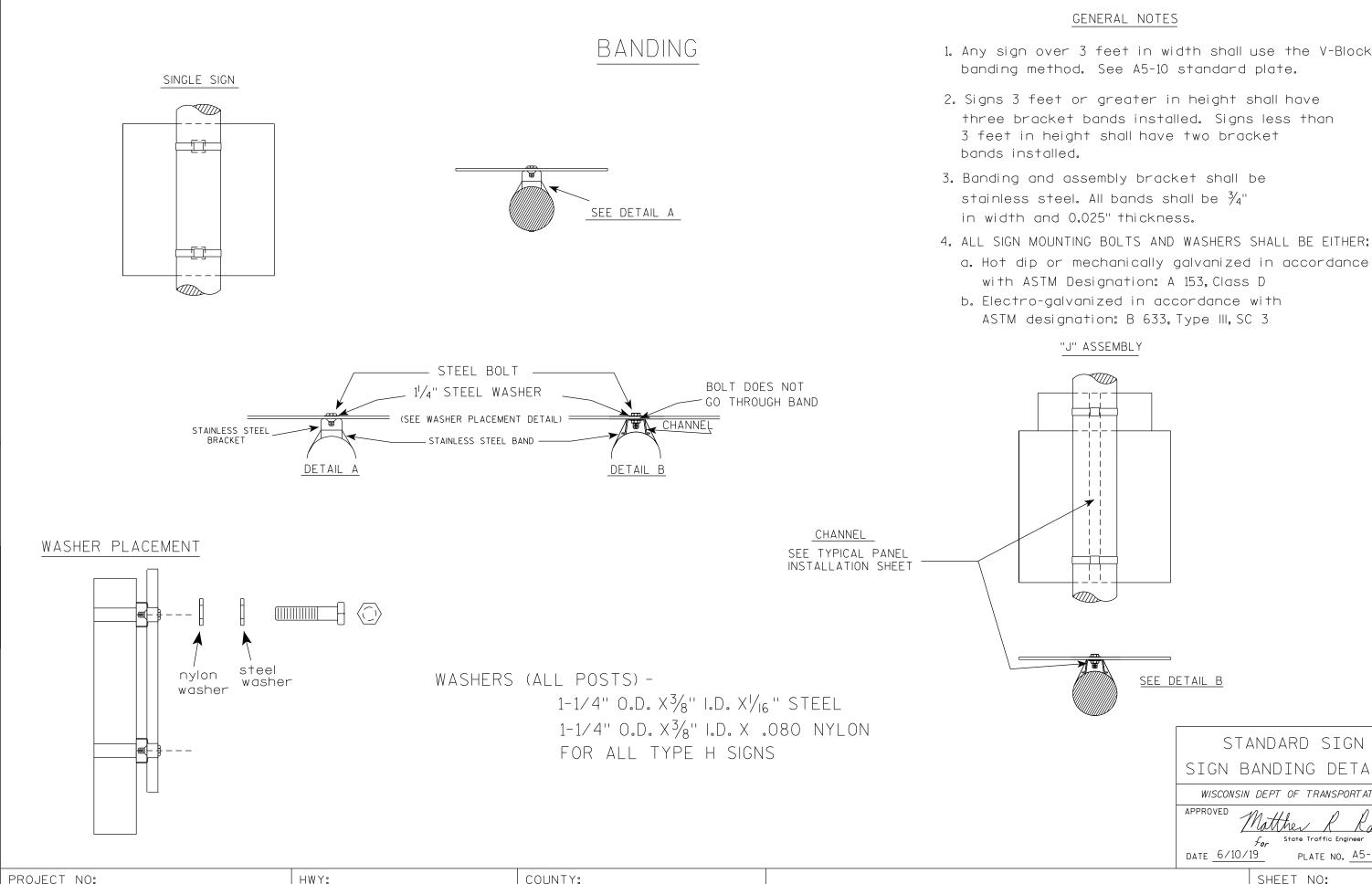


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# GENERAL NOTES

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	
	WISC	onsin l	DEF	PT OF T	RANSI	PORTATION	'
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PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME :

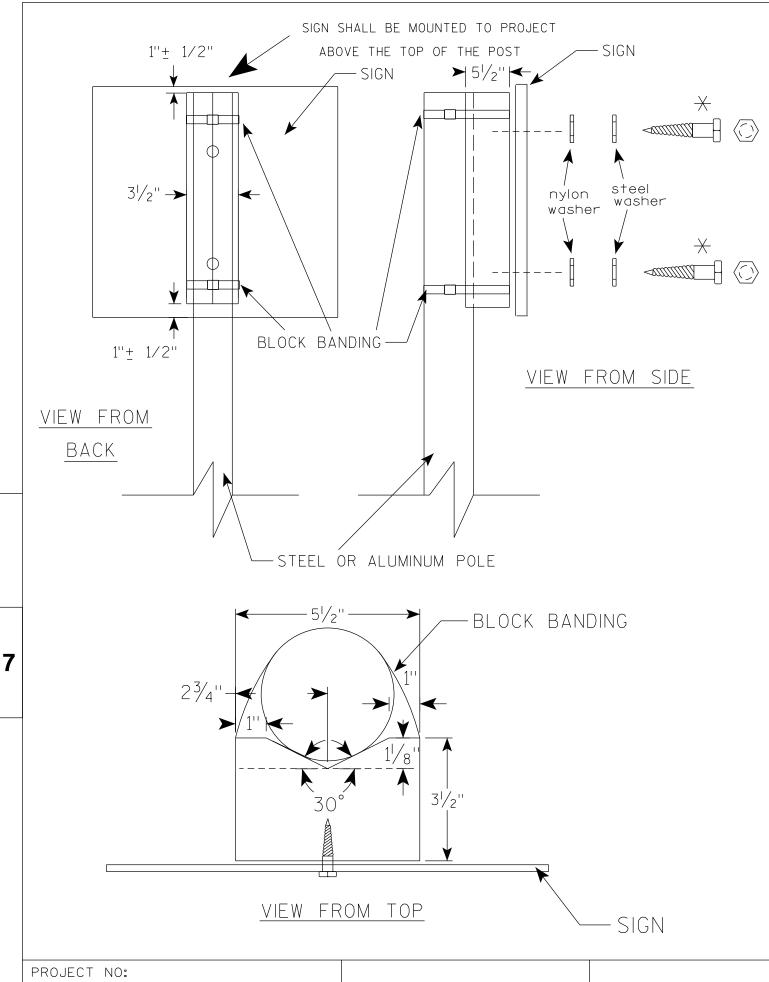
# GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.

three bracket bands installed. Signs less than 3 feet in height shall have two bracket

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

	<u>SEE DETAIL B</u>
	STANDARD SIGN
	SIGN BANDING DETAILS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthe Rauch
	DATE 6/10/19 PLATE NO. 45-9.4
	SHEET NO: E
PLOT S	CALE : \$\$plotscale\$\$ WISDOT/CADDS SHEET 42



# GENERAL NOTES

- WISDOT STANDARD SPECIFICATIONS
- AND 0.025" THICKNESS
- 9 S.F. 3 FASTENERS SHALL BE USED.
- with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE 11/4" O.D. X 3/8" I.D. X 1/16"
- OR TYPE F FACE SIGN

 $\rightarrow$  LAG BOLTS SHALL BE  $\frac{3}{8}$ " X 2<sup>1</sup>/<sub>2</sub>"

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A510.dgn

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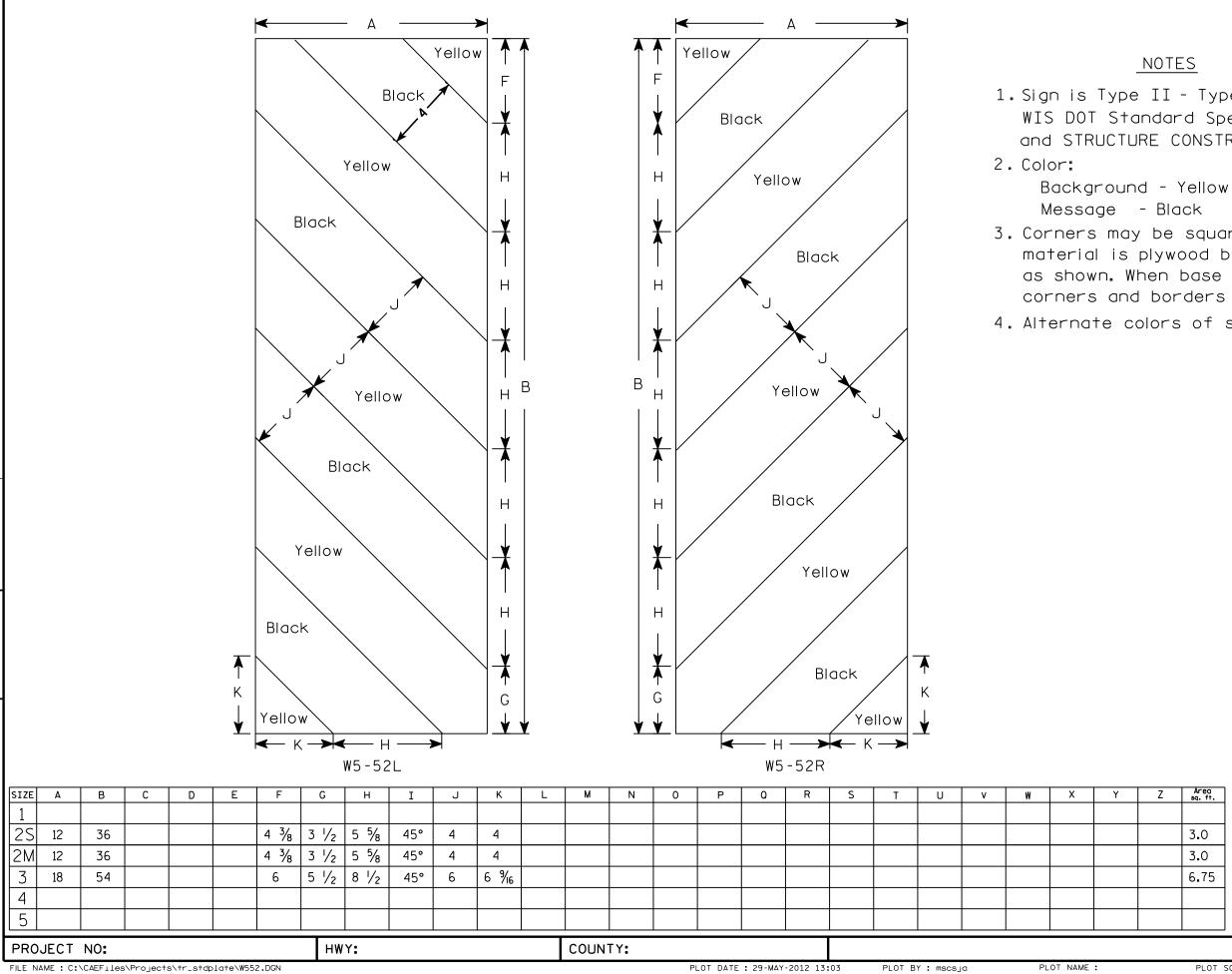
1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE

2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL,  $\frac{3}{4}$ " WIDTH

3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER: a. Hot dip or mechanically galvanized in accordance 8. NYLON WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X .080 FOR TYPE H

BLOCK BANDING DETAIL ( V-BLOCK OPTION )
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthe R Rauch For State Traffic Engineer
DATE <u>6/10/19</u> PLATE NO. <u>A5-10.2</u>
SHEET NO: <b>E</b>

WISDOT/CADDS SHEET 42



FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W552.DGN

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PLOT NAME :

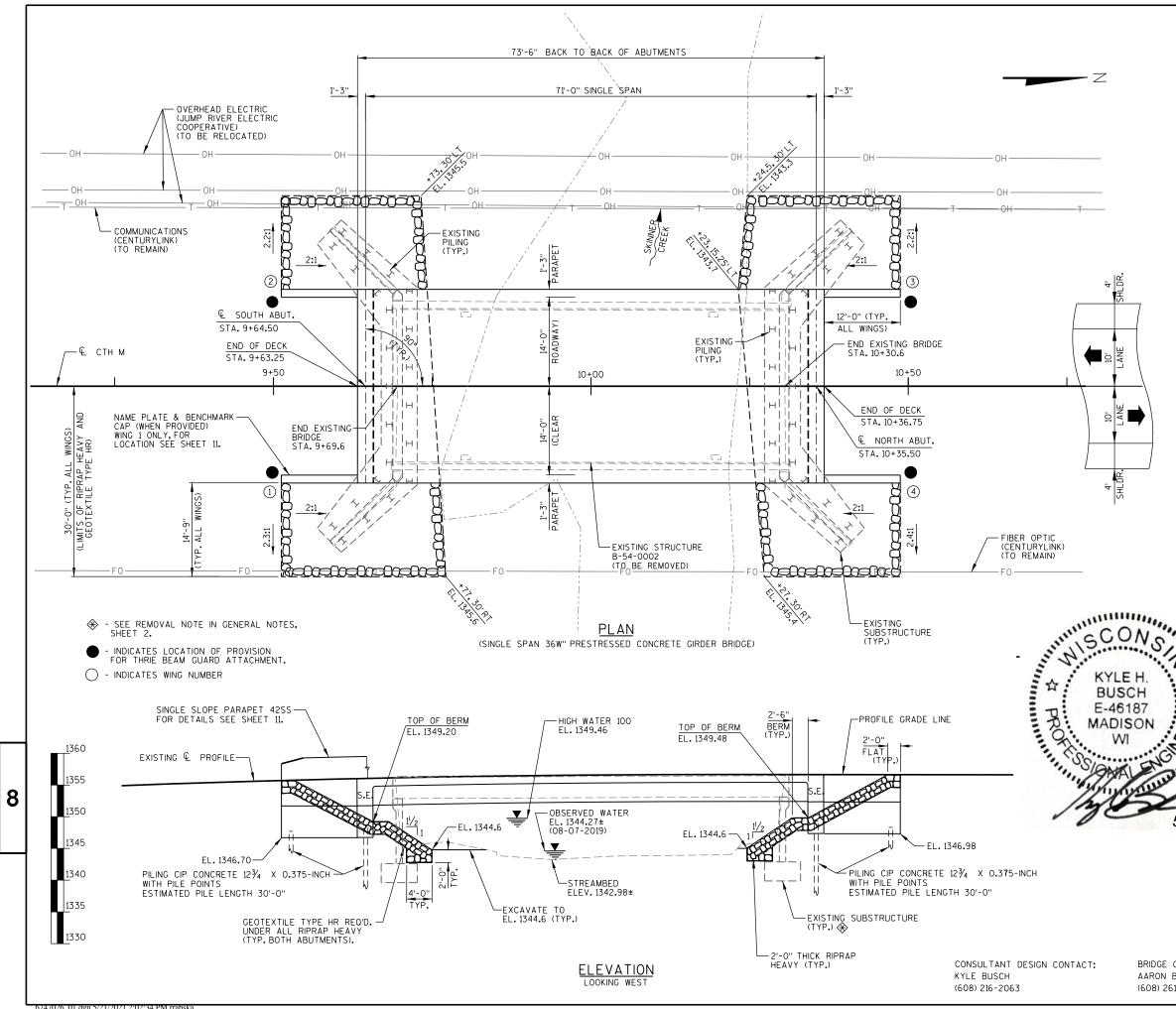
# NOTES

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

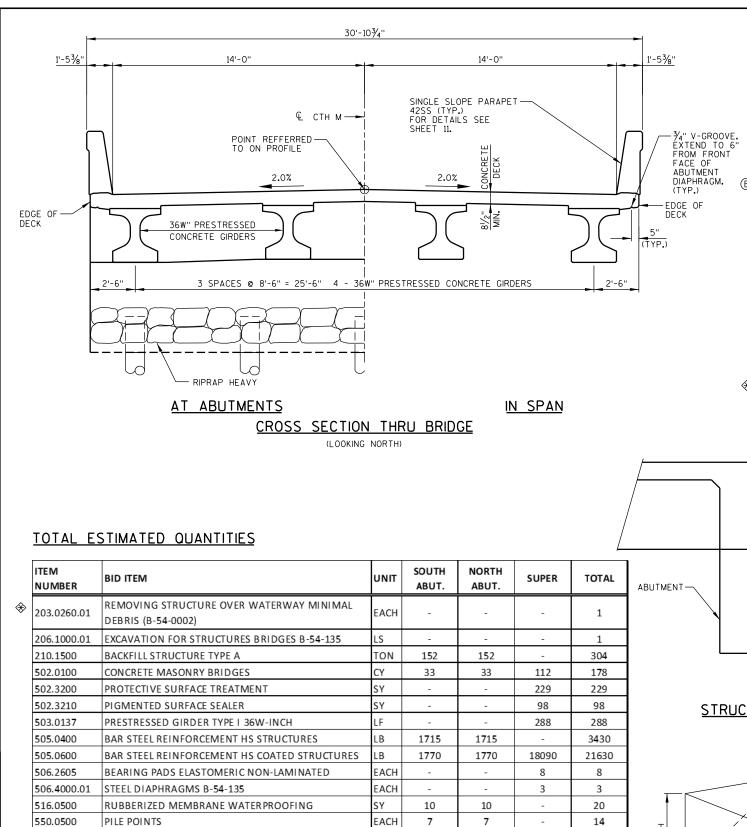


6/4/026\_01.dgn 5/21/2021 2:02:34 PM

STATE PROJECT NUMBER

# 8771-00-70

LIVE LOAD:	<u>A</u>	TRAFFIC DATA:		
DESIGN LOADING: INVENTORY RATIN OPERATIONAL RA	HL-93 IG FACTOR: 1.23 TING FACTOR: 1.93	A.A.D.T. (2022) A.A.D.T. (2042) R.D.S. = 30 MF	= 380	
	ARD PERMIT VEHICLE (			
	ESIGNED FOR A FUTURE PER SQUARE FOOT.	WEARING SURFACE		
MATERIAL PROPERT CONCRETE MASON AL	<u>IES:</u> NRY, SUPERSTRUCTURE - L OTHER ————————————————————————————————————	<i>fc</i> = 4,000 F <i>fc</i> = 3,500 P	2.S.I. 2.S.I.	
HIGH-STRENGTH E REINFORCEMENT	BAR STEEL ,GRADE 60	<i> f y</i> = 60,000		
36W-INCH PREST CONCRETE MASC STRANDS - 0.60	RESSED GIRDERS DNRY " DIA.WITH AN ILE STRENGTH OF	fc = 8,000 F	P.S.I.	
	RETE 12 $\frac{3}{4}$ × 0.375-INC			
FOUNDATION DATA:		yy - 43,000	1.5.1.	
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MULTIPLIED BY A	AXIAL RESISTANCE OF P IN IS THE REQUIRED DRI A RESISTANCE FACTOR RMINE DRIVEN PILE CAP.	OF 0.5 USING MODIFIED	)	
HYDRAULIC DATA:				
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Q <sub>100</sub> - TOTA VELOCITY -	REA			
WATERWAY .	AREA - THRU BRIDGE -	308 S0 FT		
HIGH WATER	ICAL CODE			
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			BY	
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5/27/2021		ENGINEERING   ARCHITECTURE FUNDING   PLANNING   ENVIR 1230 SOLUT BUDO, BARABOO (608) 356-2771 www. 0 MSA Professional Service, in OF WISCONSIN	SURVEYING ONMENTAL O WI 53913 msa-ps.com	8
5/27/2021	STATE DEPARTMENT ACCEPTED	ENGINEERING   ARCHITECTURE FUNDING   PLANNING   ENVIR 1230 SOLUT BUDO, BARABOO (608) 356-2771 www. 0 MSA Professional Service, in OF WISCONSIN	SURVEYING ONMENTAL O WI 53913 msa-ps.com 	8
5/27/2021	STATE DEPARTMENT ACCEPTED	ENGINEERING   ARCHITECTURE FUNDING   PLANNING   ENVIR 1230 SOLUTI BUDD, BARABOO (608) 356-2771 www. DMSA Professional Service, In OF WISCONSIN OF TRANSPORTATION SDR 08/2	SURVEYING CONMENTAL D WI 53913 msa-ps.com c 24/21 DATE	8
5/27/2021	STATE DEPARTMENT ACCEPTED CHIEF STRUCTURE STRUCTURE CTH M OVE	ENGINEERING   ARCHITECTURE FUNDING   PLANNING   ENVIR 1230 SOUTH BLVD., BARABOO (608) 356-2771 WWW.I D MAS hydrainad Sonker, In OF WISCONSIN OF TRANSPORTATION S DESIGN ENGINEER B-54-135 R SKINNER CREEK	SURVEYING CONMENTAL 0WI 53913 msa-ps.com 24/21 DATE	8
5/27/2021	STATE DEPARTMENT ACCEPTED CHIEF STRUCTURE STRUCTURE CTH M OVE COUNTY RUSP DESIGN SPEC.	ENGINEERING   ARCHITECTURE FUNDING   PLANNING   ENVIR 1230 SOLITH BIVOL, BARABOO (608) 356-2771 www. 0 KA hotestand structure, in 0 FWISCONSIN 0 F TRANSPORTATION SDR 08/2 S DESIGN ENGINEER B-54-135 R SKINNER CREEK	SURVEYING CONMENTAL 0WI 53913 msa-ps.com 24/21 DATE	
5/27/2021	STATE DEPARTMENT ACCEPTED CHIEF STRUCTURE STRUCTURE CTH M OVE COUNTY RUSP DESIGN SPEC. AASHTO LRFD BRIDGE DES	ENGINEERING   ARCHITECTURE FUNDING   PLANNING   ENVIR 1230 SOUTH BIVD, BARBADO (608) 356-2771 www. 0163 Hoftsmand Straces, in 0F WISCONSIN OF TRANSPORTATION SDR 08/2 SDBSIGN ENGINEER B-54-135 R SKINNER CREEK TOWNACHTY-VILLAGE TOWNACHTY-VILLAGE SOUTH STRANSPORTATION SDR 2012 B-54-135	I SURVEYING I SURVEYING I SURVETAL D WI 53913 msa-ps.com 24/21 DATE TH FORK	
5/27/2021	STATE DEPARTMENT ACCEPTED CHIEF STRUCTURE STRUCTURE CTH M OVE COUNTY RUSH DESIGN SPEC. AASHTO LRFD BRIDGE DES	ENGINEERING   ARCHITECTURE FUNDING   PLANNING   ENVIR 1230 SOUTH BIVD, BARBADO (608) 356-2771 www. 0163 Hoftsmand Straces, in 0F WISCONSIN OF TRANSPORTATION SDR 08/2 SDBSIGN ENGINEER B-54-135 R SKINNER CREEK TOWNACHTY-VILLAGE TOWNACHTY-VILLAGE SOUTH STRANSPORTATION SDR 2012 B-54-135	L SURVEYING I SURV	
	STATE DEPARTMENT ACCEPTED CHIEF STRUCTURE STRUCTURE CTH M OVE COUNTY RUSP DESIGN SPEC. AASHTO LRFD BRIDGE DES	engineering   Architecture Funding   PLANNING   ENVIR 1230 SOUTH BLVD., BARABOO (608) 356-2771 WWW.I P MAS Professional Service, In OF WISCONSIN OF TRANSPORTATION SDR 08/2 SDR 08/2 B-54-135 R SKINNER CREEK TOWN/CITY/VILLAGE NOWN/CITY/VILLAGE SDR PECIFICATIONS BY RLR CKD.	I SURVEYING I SURV	FLE= 6747026_01.DGN



# GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE FIRST DIGIT OF A THREE DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

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

AND ON THE ABUTMENT SHEETS, OR AS DIRECTED BY THE ENGINEER.

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

THIS STRUCTURE WILL REPLACE THE EXISTING STRUCTURE, B-54-0002, A 61.0 FT. LONG, SINGLE SPAN STEEL DECK GIRDER BRIDGE ON FULL RETAINING CONCRETE ABUTMENTS, WITH A 24.0 FT. CLEAR ROADWAY WIDTH TO RAILINGS.

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

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS FOR 3 FEET.

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

EXCAVATION AND EXTEND 2'-O" ABOVE BOTTOM OF ABUTMENT.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP OF DECK.

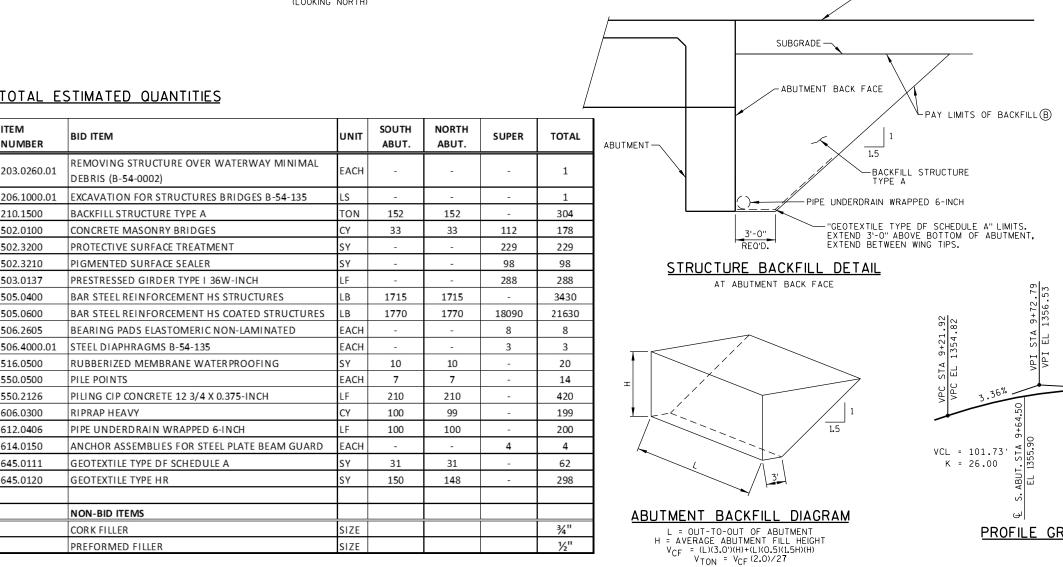
PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE INSIDE FACES, THE TOP FACES, AND THE ENDS OF THE PARAPETS.

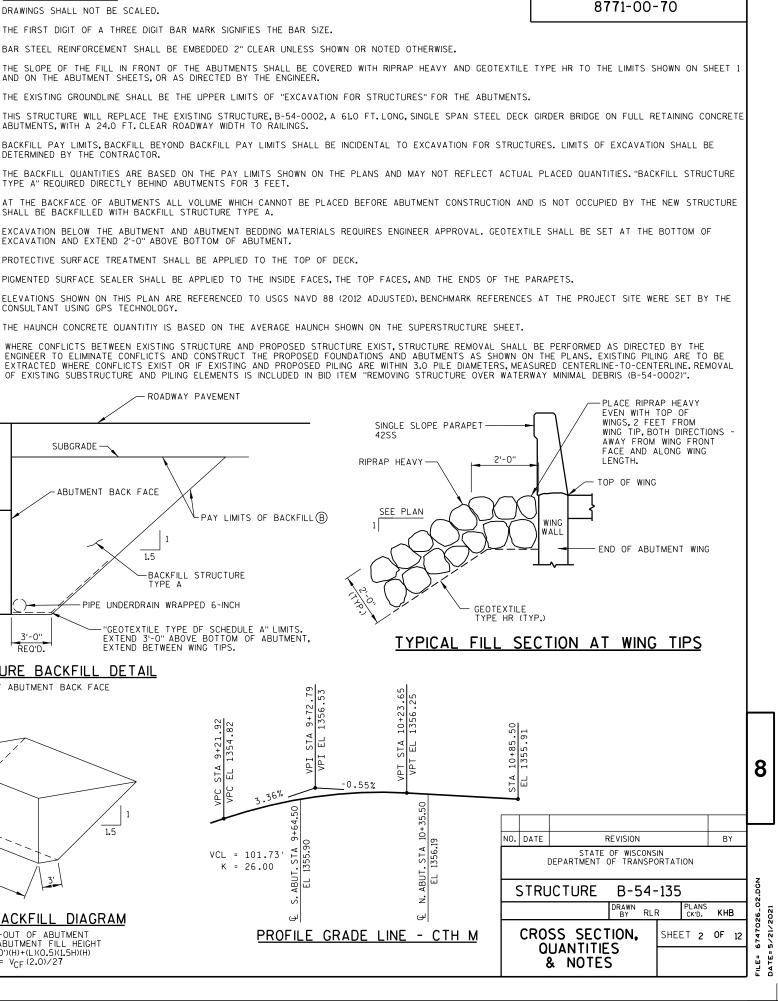
ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2012 ADJUSTED). BENCHMARK REFERENCES AT THE PROJECT SITE WERE SET BY THE CONSULTANT USING GPS TECHNOLOGY.

THE HAUNCH CONCRETE QUANTITIY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE SUPERSTRUCTURE SHEET.

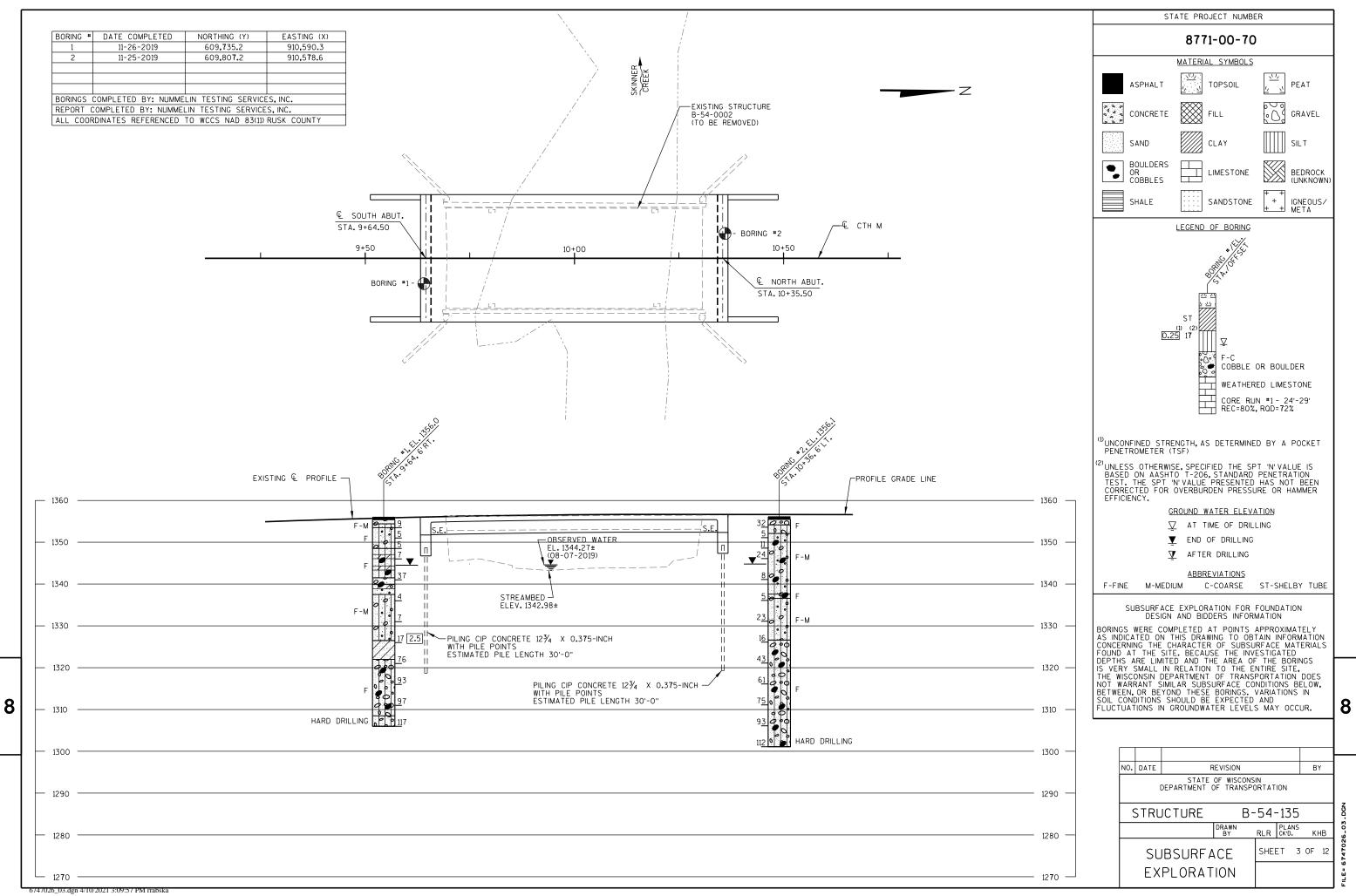
ROADWAY PAVEMENT

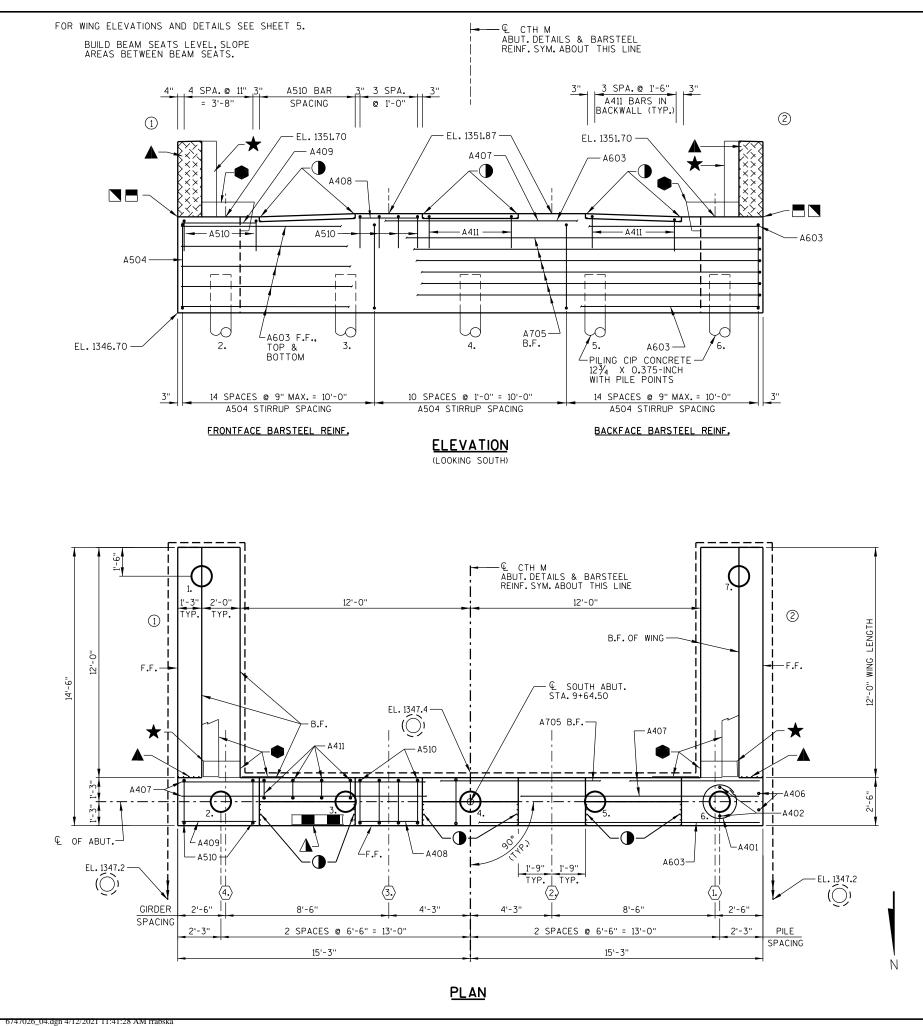
♦ - WHERE CONFLICTS BETWEEN EXISTING STRUCTURE AND PROPOSED STRUCTURE EXIST, STRUCTURE REMOVAL SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER TO ELIMINATE CONFLICTS AND CONSTRUCT THE PROPOSED FOUNDATIONS AND ABUTMENTS AS SHOWN ON THE PLANS. EXISTING PILING ARE TO BE EXTRACTED WHERE CONFLICTS EXIST OR IF EXISTING AND PROPOSED PILING ARE WITHIN 3.0 PILE DIAMETERS, MEASURED CENTERLINE-TO-CENTERLINE. REMOVAL OF EXISTING SUBSTRUCTURE AND PILING ELEMENTS IS INCLUDED IN BID ITEM "REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS (B-54-0002)".



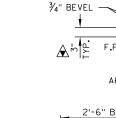


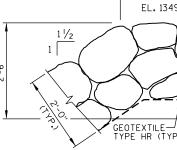
STATE PROJECT NUMBER





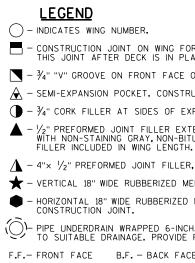
STEEL TROWEL TOP SURFACE C ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMEN TOP BEFORE PLACING BEARING PADS AND/OR SUPERSTRUCTURE TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03 INCH

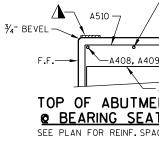




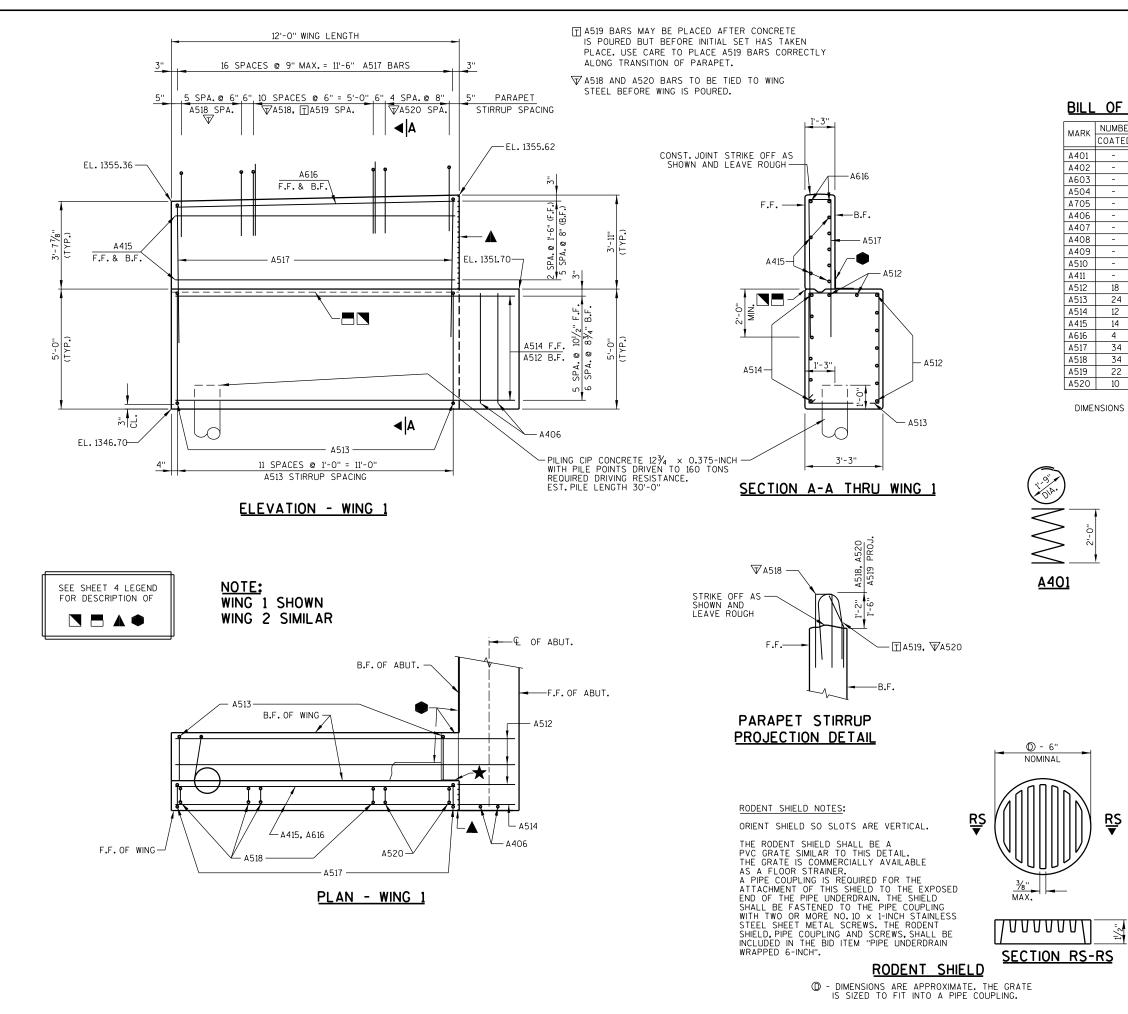
PILING CIP CONCRETE  $12\frac{3}{4} \times 0.375$ -INCH W PILE POINTS DRIVEN TO A REQUIRED DRIVIN RESISTANCE OF 160 TONS PER PILE AS DET BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED PILE LENGTHS ARE 30'-0". SEE SHEET 7 FOR PILE SPLICE DETAILS.

<u>t y f</u>





	STATE PROJECT NUMBER	
	8771-00-70	
OF I	—— ④ OF ABUTMENT, ④ OF PILING & ④ OF BEARING	
NT RE. HES A603 (P.) (P.) VITH NG TERMINED 2'-6" CL. PICAL SECTION TH	07 07 07 0 0 0 0 0 0 0 0 0 0 0 0 0	
ACE. OF WING WALL AT CONSTRU UCT 3" DEEPER THAN SURR (PANSION POCKETS (SIDE VEI TEND AS SHOWN. SEAL ALL UMINOUS JOINT SEALER. (1" EXTEND FULL LENGTH OF EMBRANE WATERPROOFING. E MEMBRANE WATERPROOFING. 4. EXTEND THRU RIPRAP HE.	ACE ON B.F. OF WING. POUR CONCRETE ABOVE CTION JOINT DUNDING BEAM SEATS AND BACKWALL. RTICAL FACES ONLY). EXPOSED HORIZ. & VERT. SURFACES OF FILLER DEEP & HOLD 1/8" BELOW SURFACE OF CONC.).	8
A407	NO.         DATE         REVISION         BY           DEPARTMENT OF WISCONSIN DEPARTMENT OF TRANSPORTATION         BY           STRUCTURE         B-54-135           DRAWN BY         RLR         PLANS CKD.         KHB           SOUTH ABUTMENT         SHEET 4         0F         12	ILE= 6747026_04.DGN )ATE=4/12/2021



6/4/026\_05.dgn 5/21/2021 2:05:27 PM rrabs

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STATE PROJECT NUMBER

8771-00-70

# BILL OF BARS (SOUTH ABUTMENT)

# UNCOATED 1715 LBS. COATED 1770 LBS.

ER	REQUIRED	LENGTH	BENT	LOCATION
D	UNCOATED	LENGTH	DEINT	ECCATION
	5	28'-0"	Х	AT BODY PILES - 1 PER PILE 5 SPIRAL WRAPS
	10	2'-3"		AT BODY PILES - 2 PER PILE - VERT.
	11	30'-2"		ABUT.BODY - F.F., TOP & BOTTOM - HORIZ.
	39	13'-8''	Х	ABUT.BODY - STIRRUPS - VERT.
	6	30'-2"		ABUT.BODY - B.F HORIZ.
	4	4'-7"		ABUT.BODY - ENDS - VERT.
	2	30'-2"		ABUT. TOP - B.F. SEMI-EXP. POCKET - HORIZ.
	2	3'-2"		ABUT. TOP - F.F GIRDERS 2 & 3 - HORIZ.
	2	3'-10"		ABUT. TOP - F.F GIRDERS 1 & 4 - HORIZ.
	18	4'-11"	Х	ABUT.TOP - GIRDER SEATS - VERT.
	12	3'-9''	Х	ABUT. TOP - B.F. SEMI-EXP. POCKET - VERT.
	-	14'-1''		WINGS - BOTTOM - B.F. & TOP - HORIZ.
	-	15'-8''	Х	WINGS - BOTTOM - STIRRUP - VERT.
	-	14'-1"		WINGS - BOTTOM - F.F HORIZ.
	-	11'-7''		WINGS - TOP - F.F. & B.F HORIZ.
	-	11'-7''		WINGS - TOP - F.F. & B.F HORIZ.
	-	12'-2"	Х	WINGS - TOP - TIES - VERT.
	-	5'-7''	Х	WINGS - TOP - PARAPET STIRRUP - VERT.
	-	3'-0"	Х	WINGS - TOP - PARAPET STIRRUP - VERT.
	-	5'-10"	Х	WINGS - TOP - PARAPET STIRRUP - VERT.

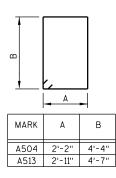
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

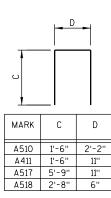
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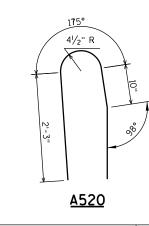
1-6"

<u>A519</u>

NO. DATE

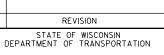


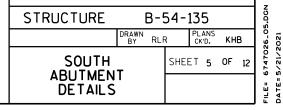


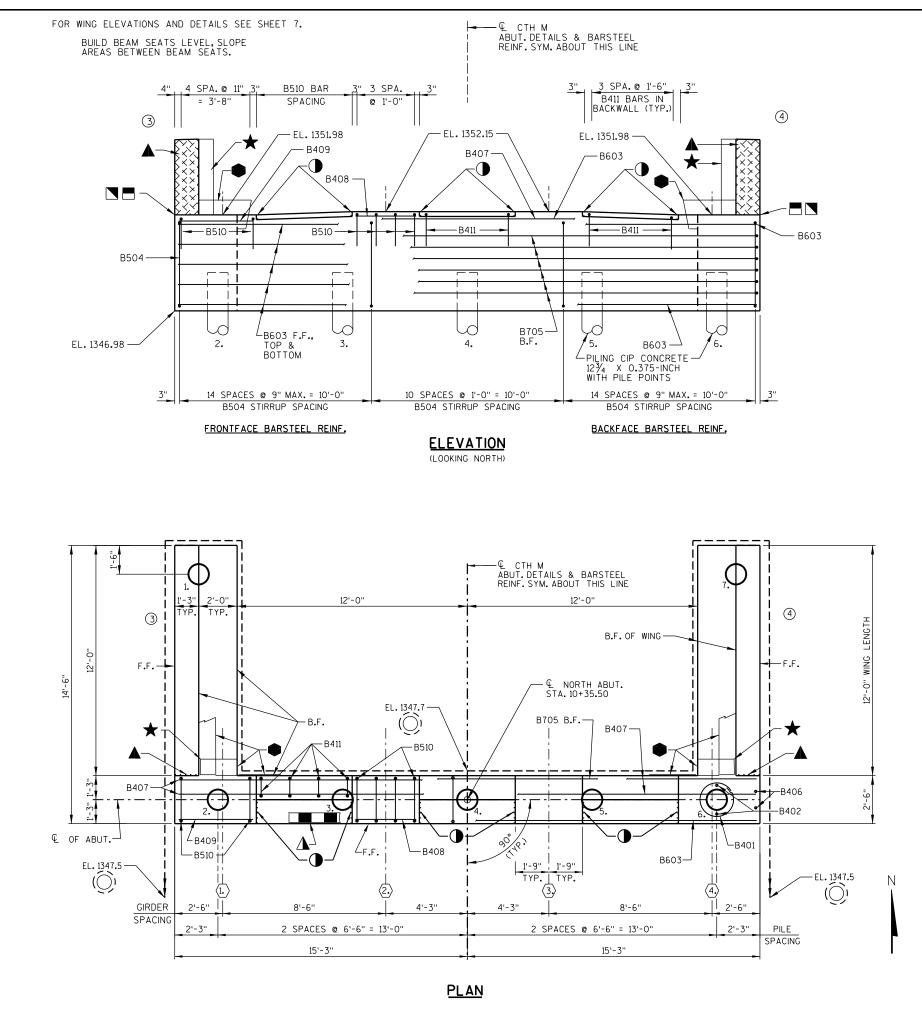


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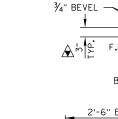


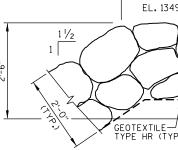




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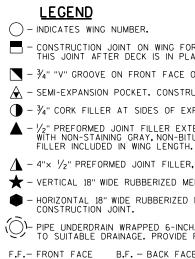
STEEL TROWEL TOP SURFACE C ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMEN TOP BEFORE PLACING BEARING PADS AND/OR SUPERSTRUCTURE TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03 INCH

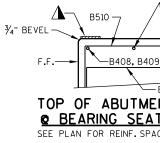




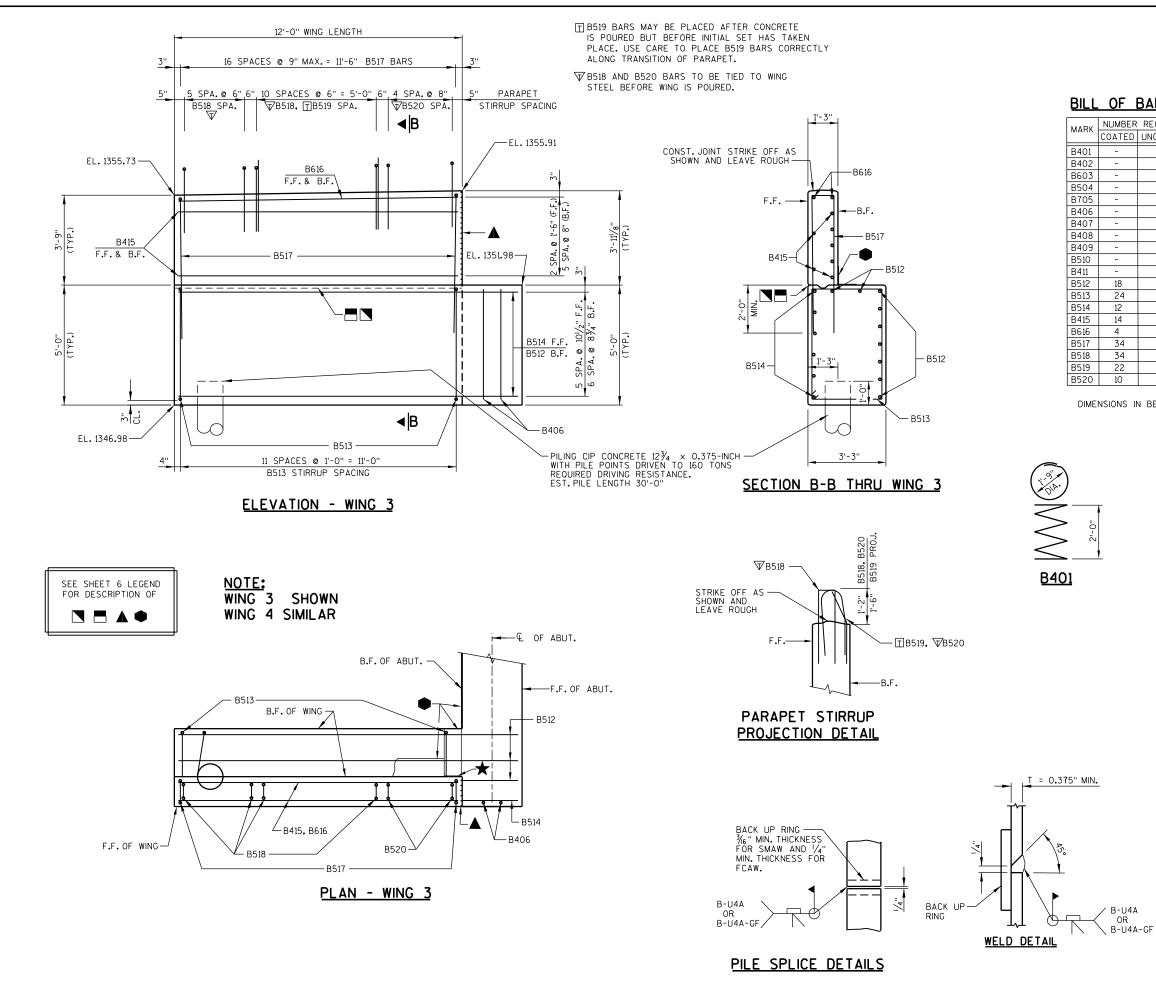
PILING CIP CONCRETE  $12\frac{3}{4} \times 0.375$ -INCH W PILE POINTS DRIVEN TO A REQUIRED DRIVIN RESISTANCE OF 160 TONS PER PILE AS DET BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED PILE LENGTHS ARE 30'-0". SEE SHEET 7 FOR PILE SPLICE DETAILS.

<u>t y f</u>





	STATE PROJECT NUMBER	•
	8771-00-70	
OF NT RE. HES B603 BERM 49.48 R	SPA. B603 FRONT FACE SPA. B603 FRONT FACE 5-0" 5-0" 5-0" 5-0" 5-0" 5-0" 5-0" 5-0"	
ACE.	EXCAVATE TO THIS LINE BEFORE DRIVING PILING B603 RU ABUTMENT RU ABUTMENT	
PANSION POCKETS (SIDE VEF	DUNDING BEAM SEATS AND BACKWALL. RTICAL FACES ONLY). EXPOSED HORIZ. & VERT.SURFACES OF FILLER DEEP & HOLD 1/8" BELOW SURFACE OF CONC.).	
MEMBRANE WATERPROOFING.	XTEND FROM BRIDGE SEAT TO TOP OF WINGS. EXTEND BETWEEN WING TOPS AND ALONG WING AVY AND GEOTEXTILE TYPE HR. SLOPE 0.5% MIN. F PIPE, SEE RODENT SHIELD DETAIL, SHEET 5.	8
B407	NO.     DATE     REVISION     BY       STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION       STRUCTURE     B-54-135       DRAWN RLR       PLANS CKD.     KHB       SHEET 6 OF 12	FLE= 6747026_06.DGN DATE=4/12/2021



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STATE PROJECT NUMBER

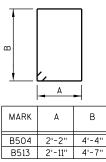
8771-00-70

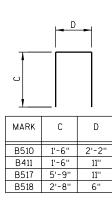
# BILL OF BARS (NORTH ABUTMENT)

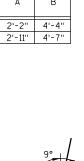
# UNCOATED 1715 LBS. COATED 1770 LBS.

ER	REQUIRED	LENGTH	BENT	LOCATION
D	UNCOATED	LENGTH	DLINI	LOCATION
	5	28'-0"	Х	AT BODY PILES - 1 PER PILE 5 SPIRAL WRAPS
	10	2'-3"		AT BODY PILES - 2 PER PILE - VERT.
	11	30'-2"		ABUT.BODY - F.F., TOP & BOTTOM - HORIZ.
	39	13'-8''	Х	ABUT.BODY - STIRRUPS - VERT.
	6	30'-2"		ABUT.BODY - B.F HORIZ.
	4	4'-7"		ABUT.BODY - ENDS - VERT.
	2	30'-2"		ABUT. TOP - B.F. SEMI-EXP. POCKET - HORIZ.
	2	3'-2"		ABUT. TOP - F.F GIRDERS 2 & 3 - HORIZ.
	2	3'-10"		ABUT. TOP - F.F GIRDERS 1 & 4 - HORIZ.
	18	4'-11"	Х	ABUT.TOP - GIRDER SEATS - VERT.
	12	3'-9''	Х	ABUT. TOP - B.F. SEMI-EXP. POCKET - VERT.
	-	14'-1"		WINGS - BOTTOM - B.F. & TOP - HORIZ.
	-	15'-8''	Х	WINGS - BOTTOM - STIRRUP - VERT.
	-	14'-1"		WINGS - BOTTOM - F.F HORIZ.
	-	11'-7''		WINGS - TOP - F.F. & B.F HORIZ.
	-	11'-7''		WINGS - TOP - F.F. & B.F HORIZ.
	-	12'-2"	Х	WINGS - TOP - TIES - VERT.
	-	5'-7''	Х	WINGS - TOP - PARAPET STIRRUP - VERT.
	-	3'-0"	Х	WINGS - TOP - PARAPET STIRRUP - VERT.
	-	5'-10"	Х	WINGS - TOP - PARAPET STIRRUP - VERT.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.





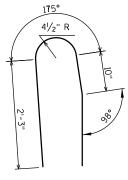


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<u>B519</u>

NO. DATE

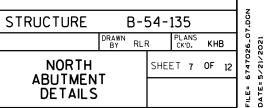


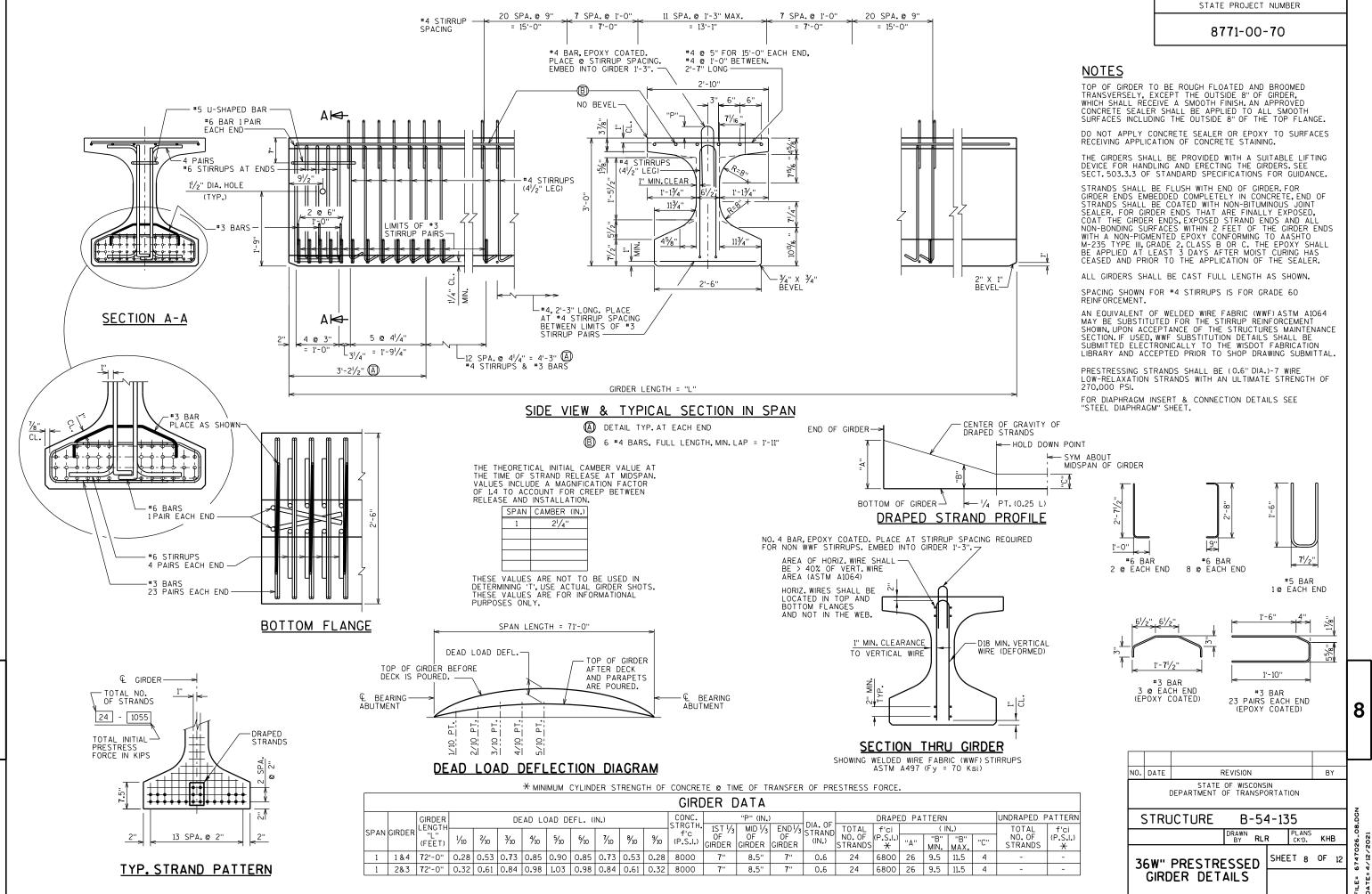
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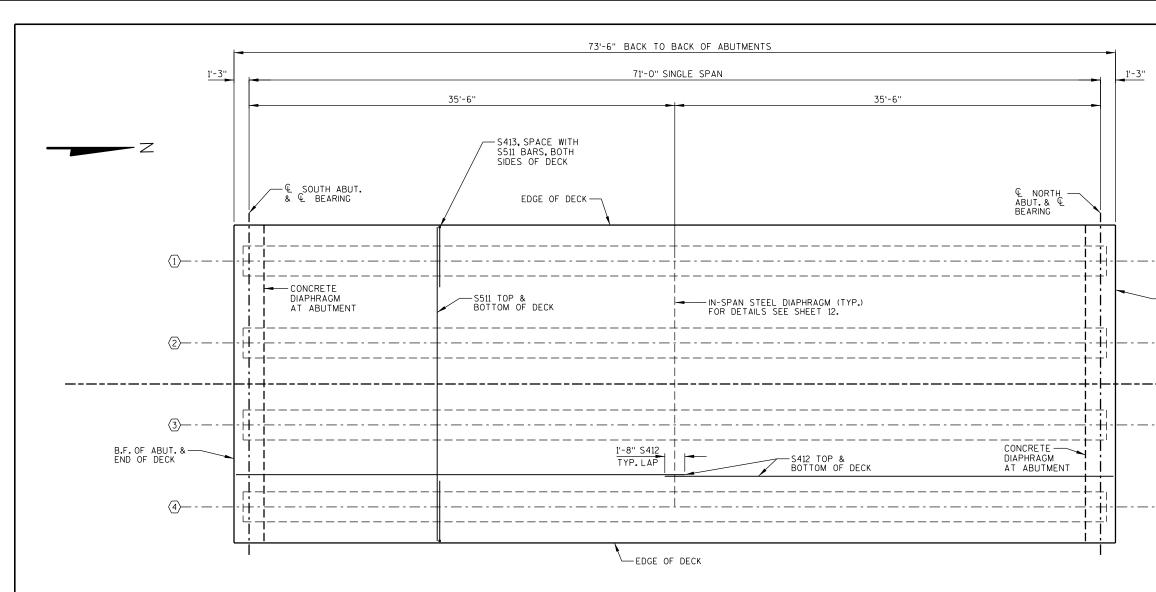
REVISION STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION





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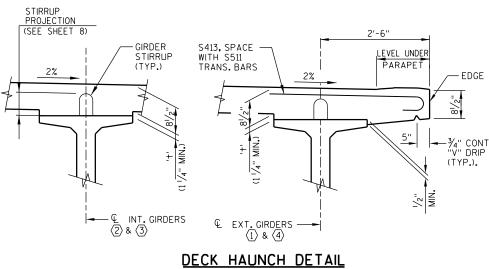




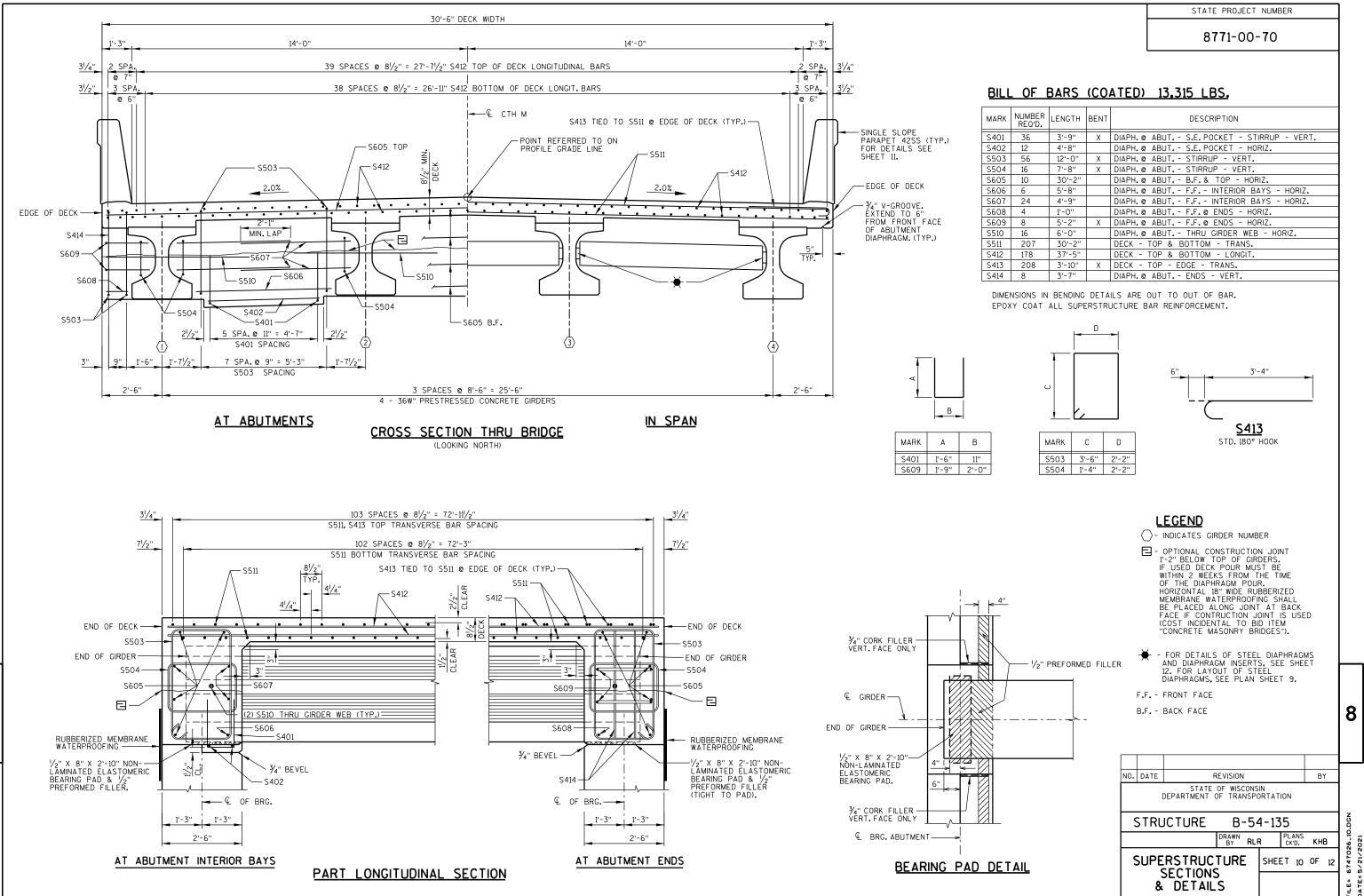


TOP	OF	DECK	ELEVATIONS	
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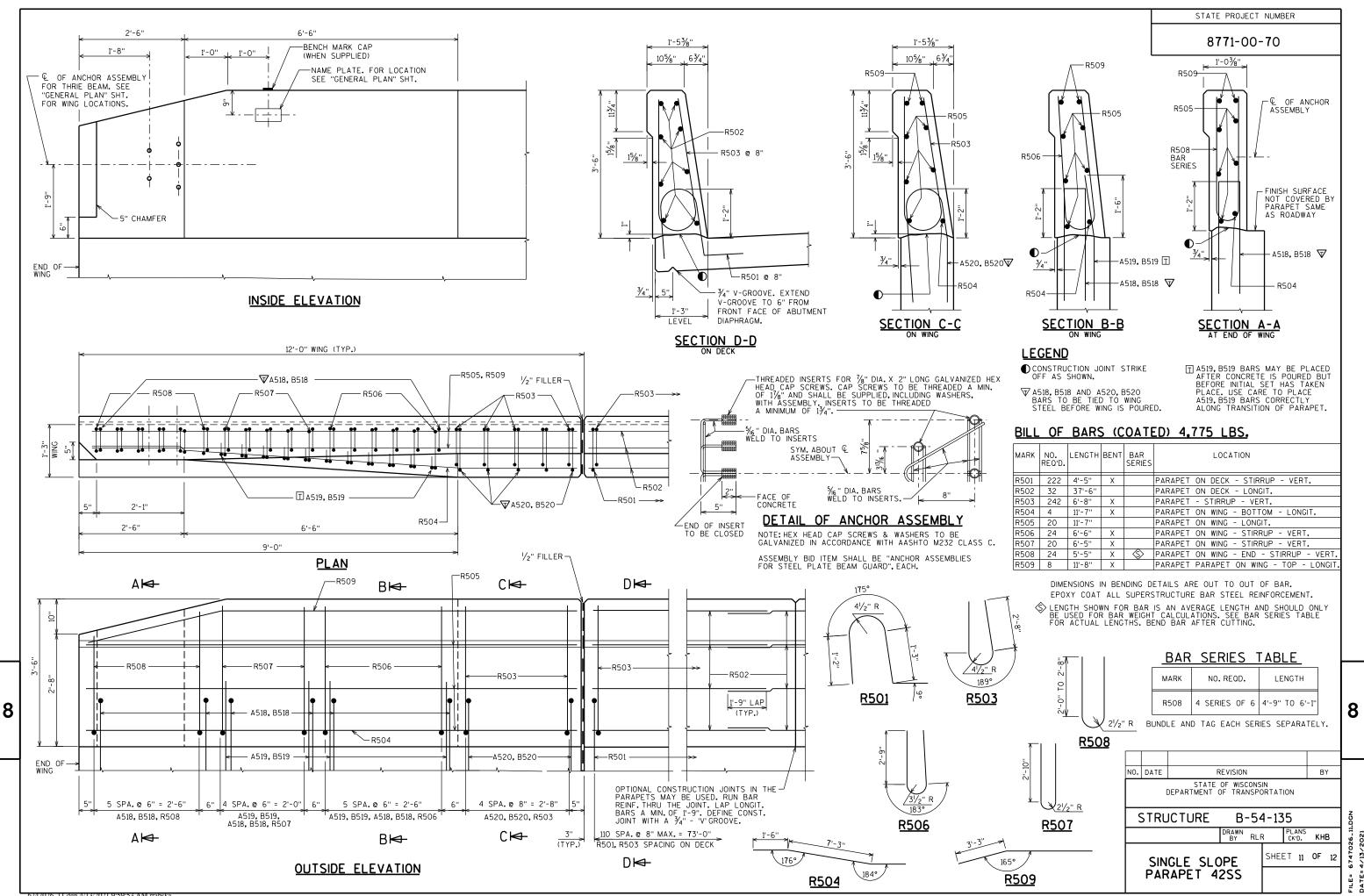
		EAST	C/L	C/L	C/L	C/L	C/L	WEST
	SPAN	DECK	GIRDER	GIRDER	СТНМ	GIRDER	GIRDER	DECK
LOCATION	POINT	EDGE	4	3		2	1	EDGE
S. ABUT.	1	1355.62	1355.65	1355.82	1355.90	1355.82	1355.65	1355.62
	1.1	1355.74	1355.76	1355.93	1356.02	1355.93	1355.76	1355.74
	1.2	1355.83	1355.85	1356.02	1356.11	1356.02	1355.85	1355.83
	1.3	1355.90	1355.93	1356.10	1356.18	1356.10	1355.93	1355.90
	1.4	1355.96	1355.98	1356.15	1356.24	1356.15	1355.98	1355.96
	1.5	1355.99	1356.02	1356.19	1356.27	1356.19	1356.02	1355.99
	1.6	1356.01	1356.03	1356.20	1356.29	1356.20	1356.03	1356.01
	1.7	1356.01	1356.03	1356.20	1356.29	1356.20	1356.03	1356.01
	1.8	1355.98	1356.01	1356.18	1356.26	1356.18	1356.01	1355.98
	1.9	1355.94	1355.97	1356.14	1356.22	1356.14	1355.97	1355.94
N. ABUT.	2	1355.91	1355.93	1356.10	1356.19	1356.10	1355.93	1355.91



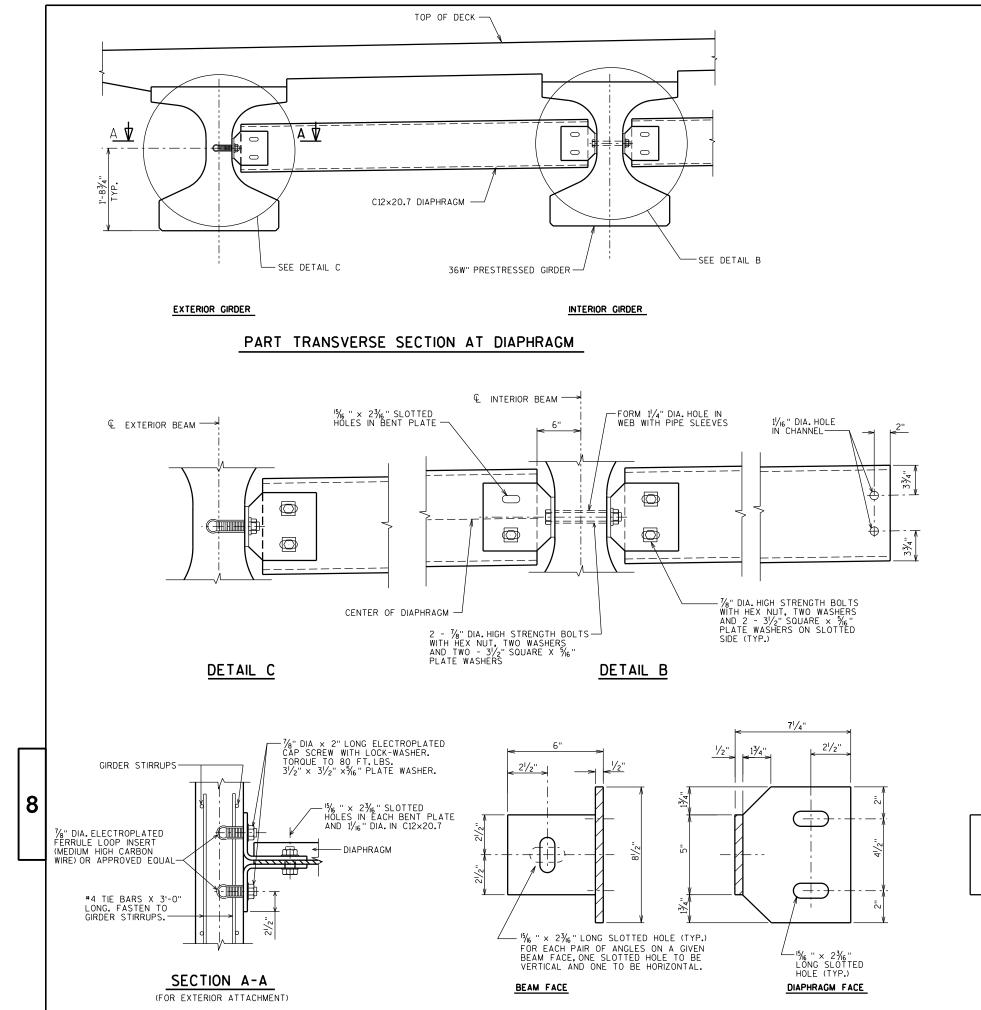
		STAT	TE PROJECT	NUMBER		
		8	771-00-	-70		
		ERAL NOT				
	0	NDICATES GIRDEF HEET 10 FOR TR				
	LONGIT	UDINAL BAR SP	ACING.			
		HEET 12 FOR LO S ON GIRDERS.	CATION OF	DIAPHRAGM		
— B.F. OF 4	ABUT. &					
END OF I	DECK					
		–€_СТН М				
	TO DETERMINE '+',	ELEV.OF TOP	OF GIRDERS	at € of		
	SUBSTRUCTURE UN SHALL BE TAKEN.	ITS & AT 1/10 TO DETERMINE	) POINTS THE TOP C	OF THE SP F DECK	AN	
	ELEVATION FOR PO SHEET AND ADJUS THEN FOLLOW THIS	T FOR CROSS S				
	TOP OF DECK E		GRADE			
	- TOP OF GIRD	DEFLECTION (SE	E SHEET 8	)		
	- DECK THICKNE  = HAUNCH HEIGE					
	IF 1 1/4" MINIMUM	HAUNCH HEIGH				
	CANNOT BE MAI BY THE ENGINEI	ER AT THE OPT	ION OF THE	CONTRAC	FOR.	
	THE PLAN DECK STRUCTURES SE THE PLAN PROF	ECTION IF THE P	GRADE LINE	IS RAISED	FROM	
OF DECK	DECK EMBEDMEN	NT OF TIE BAR	CANNOT BE	OBTAINED.	•	8
	NOTE: AN AVER IN THE QUANTIT	Y "CONCRETE N	MASONRY B	WAS USED RIDGES.''		
TINUOUS GROOVE	NO. D	ATE	REVISION		BY	
			E OF WISCONS			1
						z
	S	TRUCTURE	DRAWN	4-135		6747026_09.DGN 471272021
			BY RL	SHEET 9	KHB OF 12	6747026- 4/12/202
	รเ	JPERSTRU	CTURE		0F 12	
						ATE=



2 12 4'-8" DIAPH.@ ABUT	DESCRIPTION - S.E. POCKET - STIRRUP - VERT. - S.E. POCKET - HORIZ.
2 12 4'-8" DIAPH.@ ABUT.	
	S.E. POCKET - HORIZ.
3 56 12'-O" X DIAPH.@ ABUT	STIRRUP - VERT.
16 7'-8" X DIAPH.@ ABUT	STIRRUP - VERT.
5 10 30'-2" DIAPH.@ ABUT	B.F. & TOP - HORIZ.
5 6 5'-8" DIAPH.@ ABUT	F.F INTERIOR BAYS - HORIZ.
24 4'-9" DIAPH.@ ABUT.	F.F INTERIOR BAYS - HORIZ.
B 4 1'-O'' DIAPH.@ ABUT	F.F.@ ENDS - HORIZ.
9 8 5'-2" X DIAPH.@ ABUT.	F.F.@ ENDS - HORIZ.
16 6'-0" DIAPH.@ ABUT	THRU GIRDER WEB - HORIZ.
207 30'-2" DECK - TOP &	BOTTOM - TRANS.
178 37'-5" DECK - TOP &	BOTTOM - LONGIT.
208 3'-10" X DECK - TOP -	EDGE - TRANS.
8 3'-7" DIAPH.@ ABUT	ENDS - VERT.



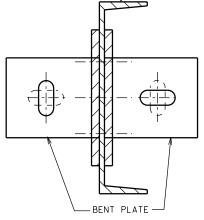
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# NOTES

ASTM A449.



-C12×20.7 DIAPHRAGM

ATTACHMENT TO CHANNEL

## STATE PROJECT NUMBER

# 8771-00-70

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-54-135", EACH.

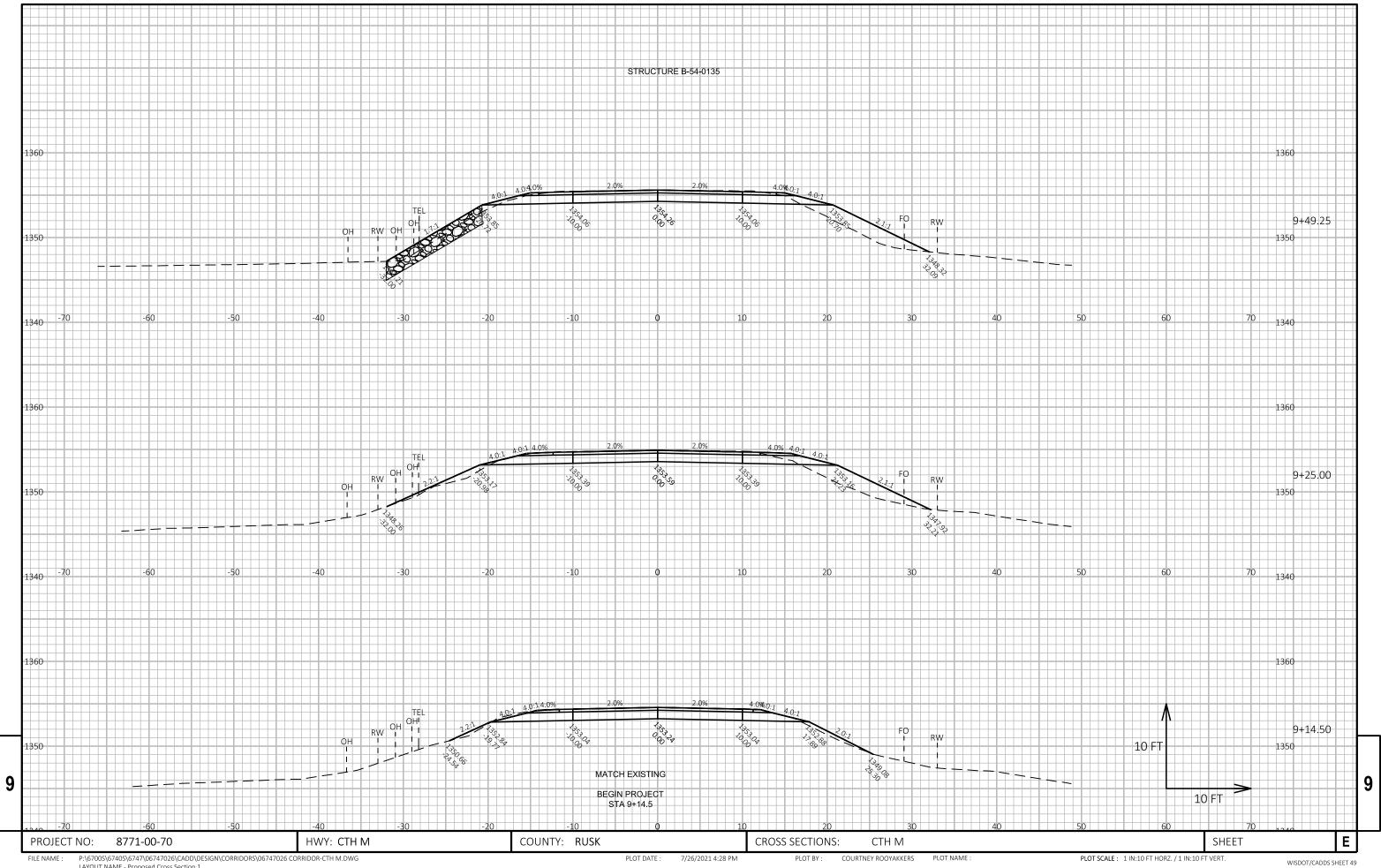
EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS  $^{1}\!\!/_{4}$  TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR

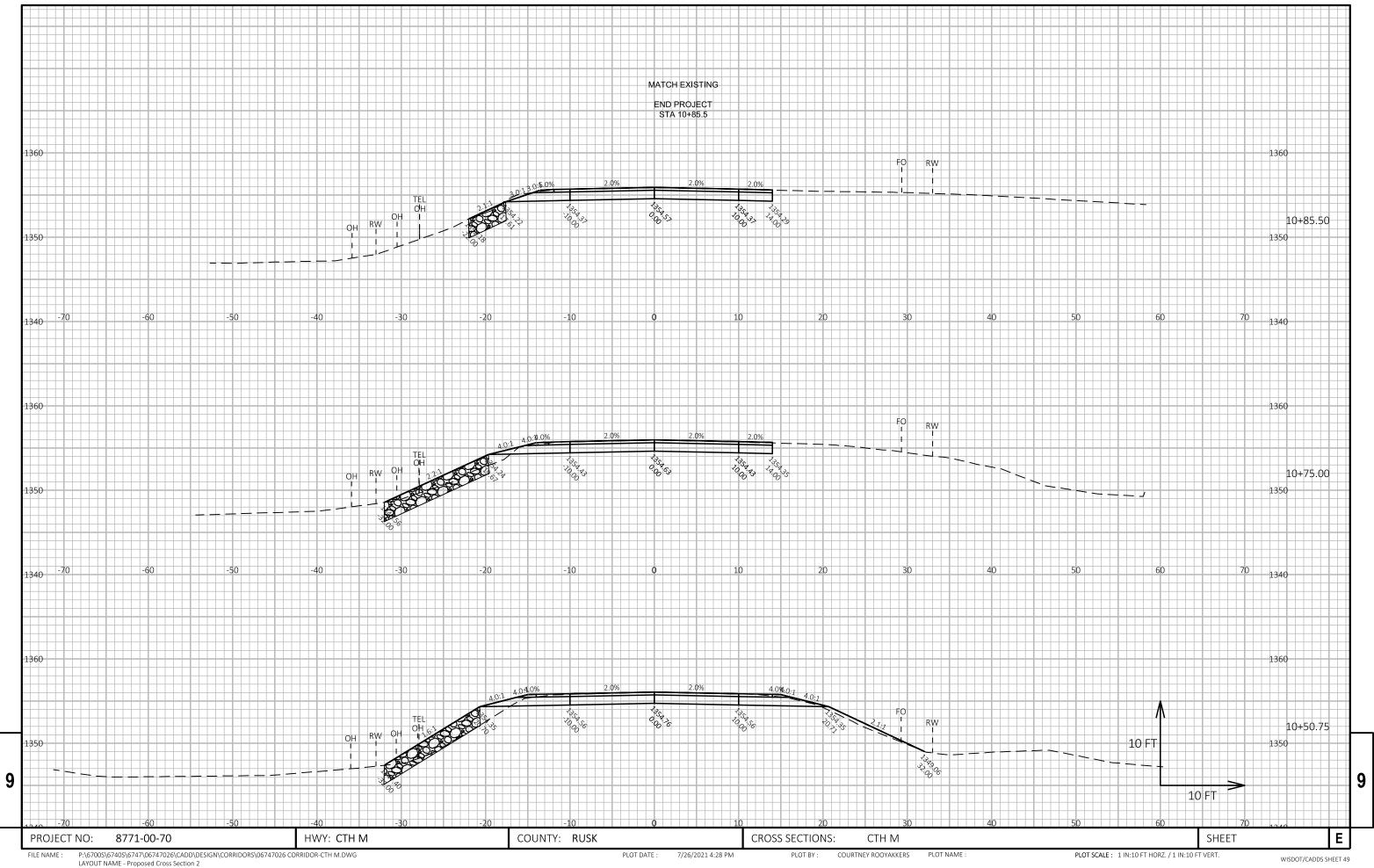
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	STEEL		SHEET 12	0F <sub>12</sub>	6747026_12.DGN : 5/24/2021
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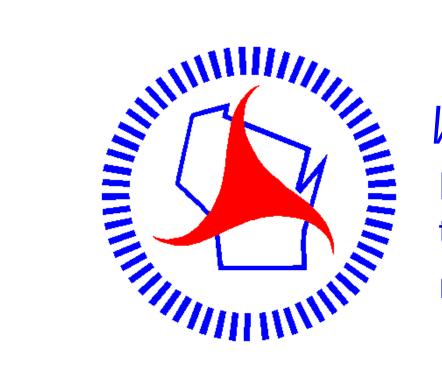


P:\6700S\6740S\6747\06747026\CADD\DESIGN\CORRIDORS\06747026 CORRIDOR-CTH M.DWG LAYOUT NAME - Proposed Cross Section 1

COURTNEY ROOYAKKERS PLOT NAME :

PLOT DATE : 7/26/2021 4:28 PM PLOT BY :





# Wisconsin Department of Transportation

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