Section No. 7

Section No. 9

TOTAL SHEETS = 82

DESIGN SPEED

EXISTING CULVERT

PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

CONVENTIONAL SYMBOLS

FSALS

APRIL 2022 STATE OF WISCONSIN ORDER OF SHEETS DEPARTMENT OF TRANSPORTATION Typical Sections and Details Estimate of Quantities

PLAN OF PROPOSED IMPROVEMENT

MT HOREB - BLACK EARTH

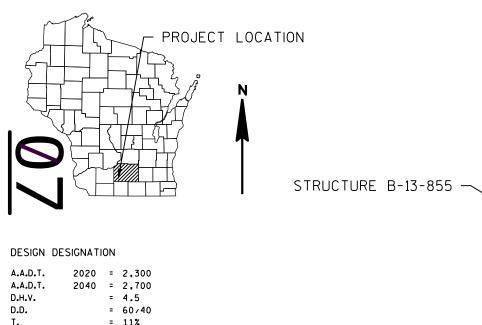
VERMONT CREEK BRIDGE B-13-0855

STH 78

DANE COUNTY

STATE PROJECT NUMBER 5600-05-80

NOINU



Miscellaneous Quantities

Computer Earthwork Data

(Includes Erosion Control Plans) Standard Detail Drawings

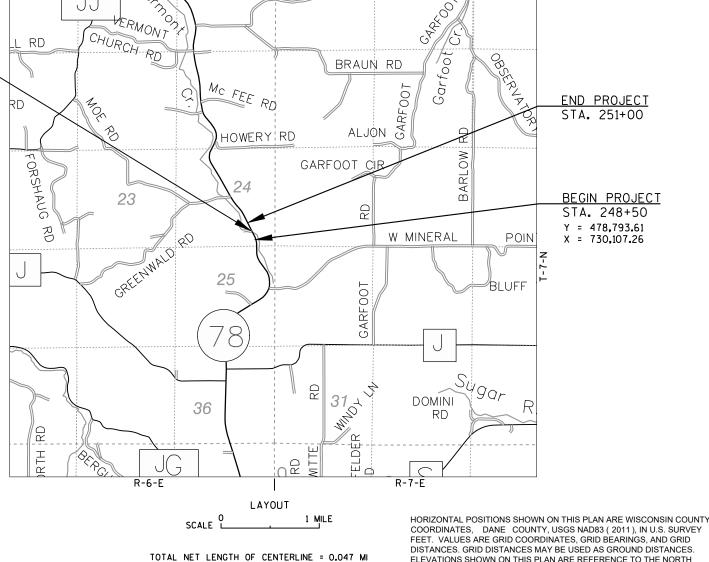
Plan and Profile

Cross Sections

PI AN PROFILE GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT REFERENCE LINE

UTILITIES FIBER OPTIC SANITARY SEWER STORM SEWER UTILITY PEDESTAL POWER POLE

₫ TELEPHONE POLE Ø



ORIGINAL PLANS PREPARED BY 1230 SOUTH BOULEVARD, BARABOO, WI 53913 (608) 356-2771 www.msa-ps.com

FEDERAL PROJECT

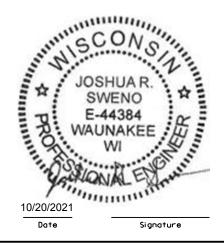
CONTRACT

PROJECT

WISC 2022287

STATE PROJECT

5600-05-80



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

MSA PROFESSIONAL SERVICES Surveyor MSA PROFESSIONAL SERVICES

APPROVED FOR THE DEPARTMENT

AMERICAN VERTICAL DATUM OF 1988 NAVD (2012)

PLOT BY : JACK MARTZKE

JENNY KOBRYN

= 60 MPH

= 600,000

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP												
		Α			В			C	:	D			
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			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 & OVE	
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38	
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56	
MEDIAN STRIP-	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30	
TURF	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40	
SIDE SLOPE-			.25			.27			.28			.30	
TURF			.32			.34			.36			.38	
PAVEMENT:												•	
ASPHALT						.7095							
CONCRETE	.8095												
BRICK	•				•	.7080		•					
DRIVES, WALKS						.7585							
ROOFS						.7595							
GRAVEL ROADS.	SHOULDE	RS				.4060							

TOTAL PROJECT AREA = 0.57 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.57 ACRES

PROJECT NO:5600-05-80 HWY: STH 78 COUNTY: DANE DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES ATTN: ERIC HEGGELUND DNR SOUTH CENTRAL REGION **HEADQUARTERS** 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711 608-228-7927 ERIC.HEGGELUND@WISCONSIN.GOV

MSA DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN: JOSH SWENO. P.E. 1702 PANKRATZ STREET MADISON, WI 53704 608-355-8852 JSWENO@MSA-PS.COM

WISDOT CONTACT

WISCONSIN DEPARTMENT OF TRANSPORTATION ATTN: CODY KAMMERZELT, P.E. PROJECT MANAGER 2101 WRIGHT STREET MADISON, WI 53704 608-243-5995 CODY.KAMMERZELT@DOT.WI.GOV

UTILITIES

BURIED TELEPHONE/FIBER: MOUNT HOREB TELEPHONE COMPANY ATTN: KEVIN MAYNE 200 E MAIN STREET MOUNT HOREB, WI 53572 608-437-5551 KEVIN.MAYNE@MHTCINC.COM

OVERHEAD ELECTRIC: ALLIANT ENERGY ATTN: NICHOLAS DACHNIWSKYJ 2147 CTH PB VERONA, WI 53593 608-845-1143 NICHOLASDACHNIWSKYJ@ALLIANTENERGY.COM

OVERHEAD FIBER: CHARTER COMMUNICATIONS ATTN: STEVE HEGGE 2701 DANIELS STREET MADISON, WI 53718 608-576-2613 STEVE.HEGGE@CHARTER.COM

* NOT A DIGGERS HOTLINE MEMBER



GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE AREA THAT ARE

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

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD 88 (2012). BENCHMARKS WERE ESTABLISHED IN THE FIELD USING GPS TECHNOLOGY.

THE 4.5" ASPHALTIC SURFACE SHALL CONSIST OF A 2" UPPER LAYER, AND A 2 ½" LOWER LAYER. ASPHALTIC SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN. APPLY TACK COAT AT A RATE OF 0.05 GAL/SY BETWEEN LAYERS OF ASPHALTIC SURFACE.

WETLANDS ARE PRESENT. AREAS OUTSIDE THE SLOPE INTERCEPTS SHALL NOT BE DISTURBED IN WETLAND AREAS.

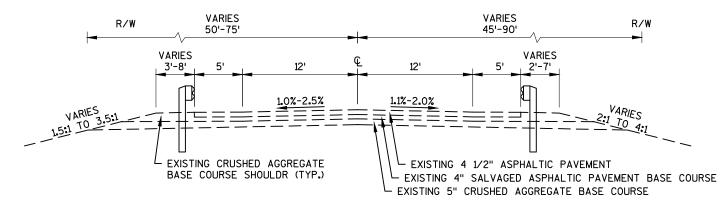
GENERAL NOTES. ABBREVIATIONS & UTILITIES

PLOT NAME :

SHEET

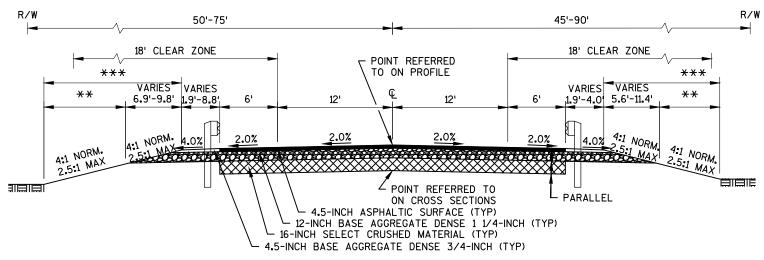
FILE NAME : P:\90S\93\00093450\CADD\C3D\SHEETSPLAN\020101_GN.DWG

PLOT BY : BRAD LEE



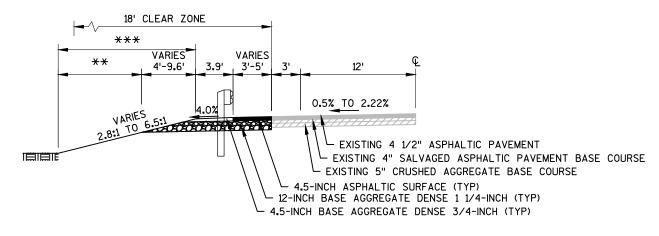
EXISTING TYPICAL SECTION

STA 248+50 - STA 249+38.4 STA 249+87.5 - STA 251+00



FINISHED TYPICAL SECTION

STA 248+50 - STA 251+00 (STRUCTURE B-13-855 AT STA 249+55)



HWY:STH 78

FINISHED TYPICAL SECTION WITH BEAM GUARD

STA 247+00 - STA 248+50, RT STA 251+00 - STA 252+75, LT

*** SEEDING MIXTURE #20, SEEDING

PROJECT NO:5600-05-80

NOTES:

TEMPORARY, & FERTILIZER TYPE B LIMITS

SALVAGED TOPSOIL AND EROSION MAT URBAN CLASS I, TYPE B LIMITS

COUNTY: DANE

TYPICAL SECTIONS & CONSTRUCTION DETAILS

SHEET

PLOT SCALE : 1 IN:10 FT

FILE NAME : P:\90S\93\00093450\CADD\C3D\SHEETSPLAN\020301_TS.DWG LAYOUT NAME - 020301_TS

PLOT DATE: 2/28/2019 1:21 PM PLOT BY : BRAD LEE PLOT NAME :

WISDOT/CADDS SHEET 42

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* AT SUPER ELEVATED SECTIONS, ADJUST SLOPE IN DAYLIGHT SECTIONS ONLY AS NECESSARY TO DRAIN. SECTION A-A BASE AGGREGATE DENSE 11/4"

В

DAYLIGHT SELECT CRUSHED MATERIAL DETAIL

SECTION VIEW)

EDGE OF SHLD

PLAN

NOTE: DAYLIGHTS SHALL BE SPACED AT 250' MAX.

SPACING AND SAG POINTS OR AS DETERMINED BY

ENGINEER IN FIELD. (SEE SECTION A-A FOR CROSS

EDGE OF PAV'T

V—4.5" ASPHALTIC SURFACE

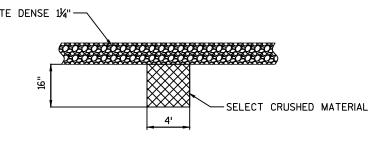
-12" BASE AGGREGATE DENSE 11/4"

-16" SELECT CRUSHED MATERIAL

EDGE OF PAV'T

EDGE OF SHLD

EDGE OF SELECT CRUSHED

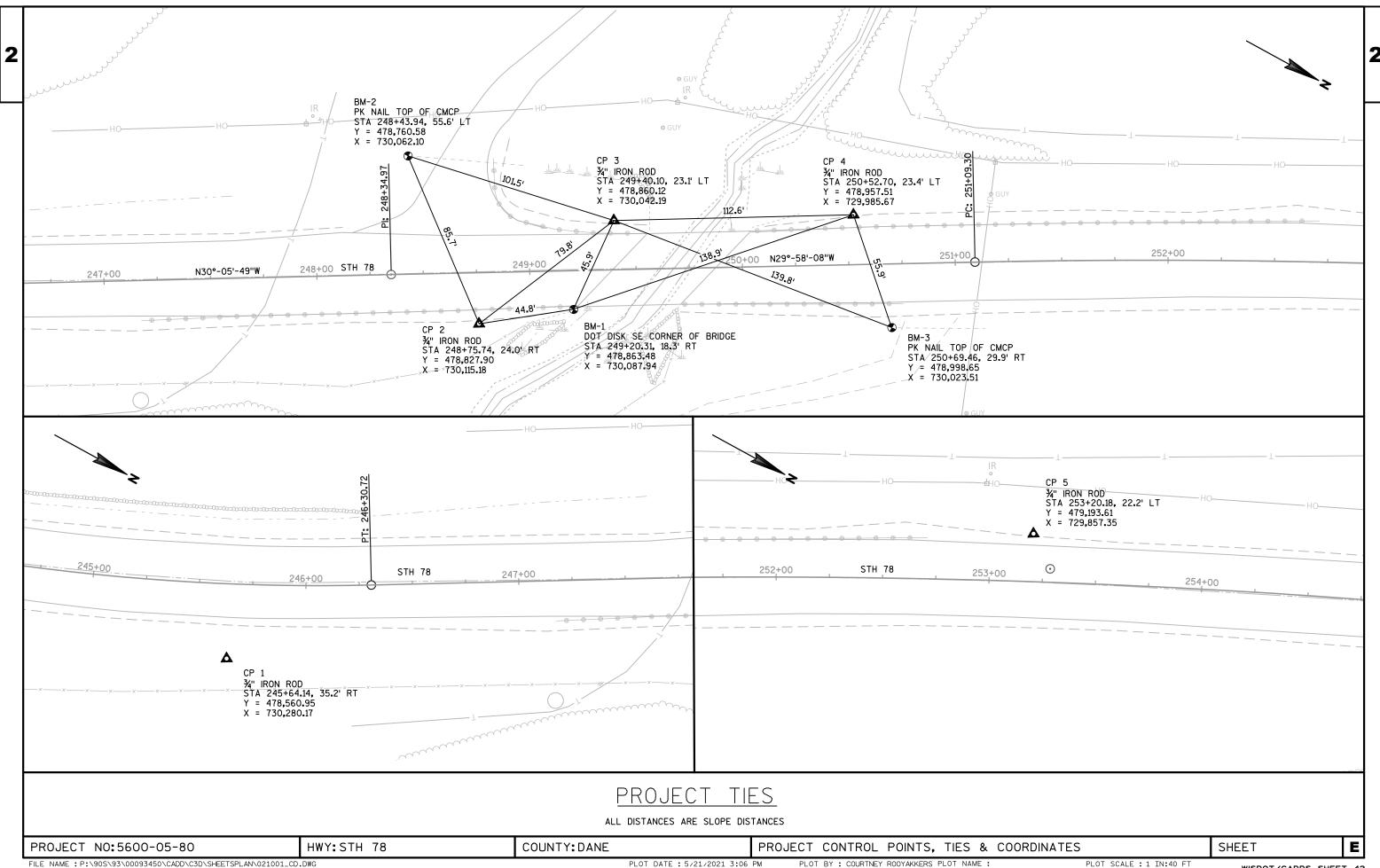


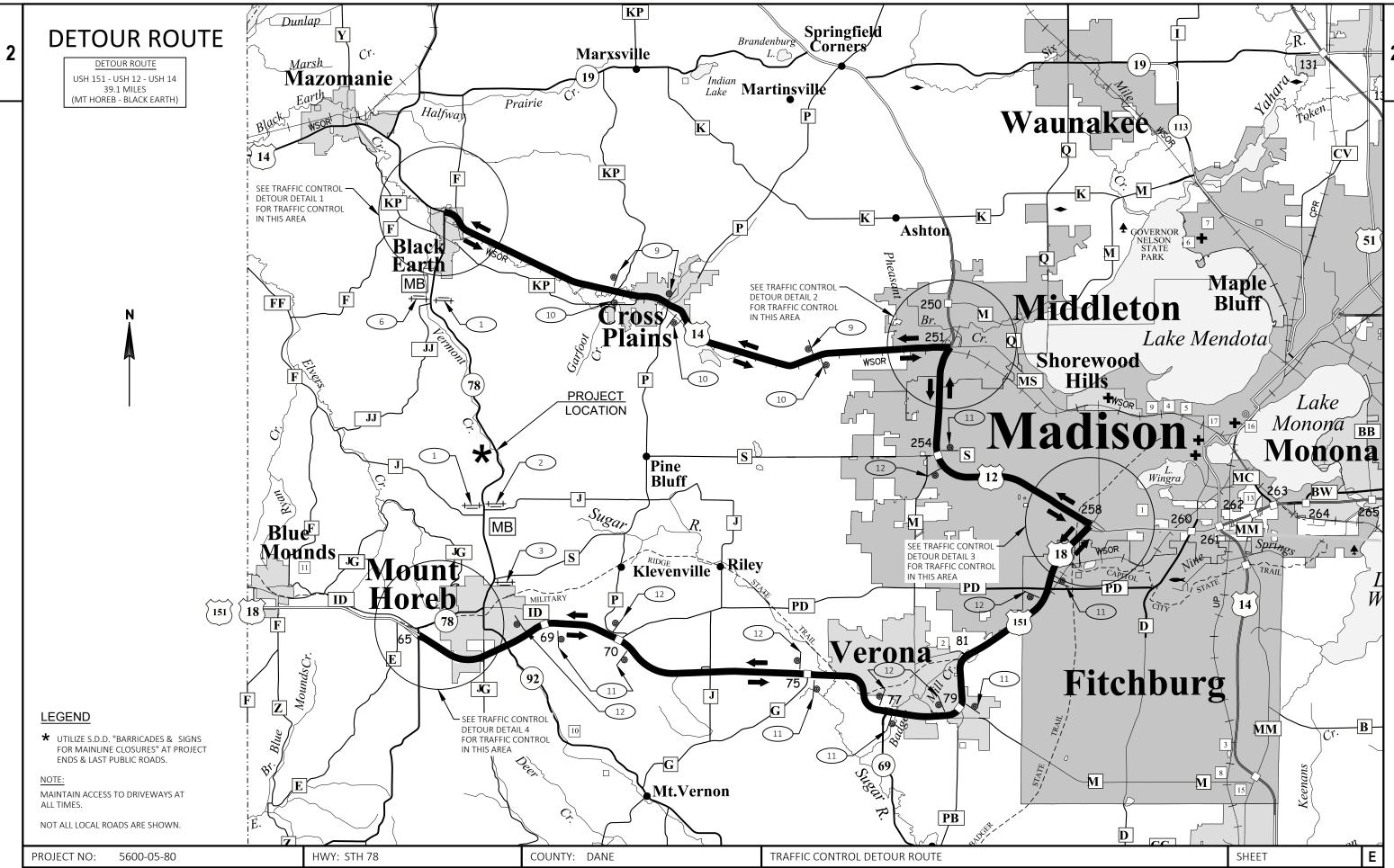
SECTION B-B

DETAIL FOR RURAL SELECT CRUSHED MATERIAL FRENCH DRAINS (LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER, 250' NORMAL)

EXCAVATION REQUIRED TO CONSTRUCT FRENCH DRAINS SHALL BE CONSIDERED INCIDENTAL TO THE ITEM SELECT CRUSHED MATERIAL.

DO NOT COVER SELECT CRUSHED WITH TOPSOIL.





FILE NAME : P:\90\$\93\00093450\CADD\C3D\\$HEET\$PLAN\027002-DT.DWG LAYOUT NAME - 027001-dt

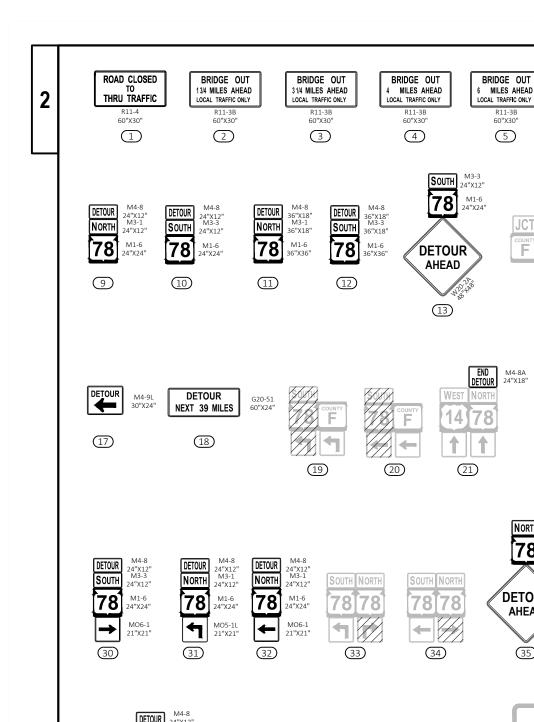
PLOT DATE : 2/28/2019 11:12 AM

PLOT BY: BRAD LEE

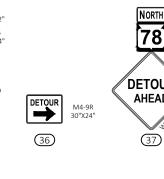
PLOT NAME :

PLOT SCALE : 1 IN:2 MI









SOUTH

78

BRIDGE OUT

51/2 MILES AHEAD

LOCAL TRAFFIC ONLY

R11-3B 60"X30"

(7)

Madison

A4-12

14"X14

781

7

Mt Horeb

24"X12

MO6-1

(15)

BRIDGE OUT

MILES AHEAD

LOCAL TRAFFIC ONLY

R11-3B 60"X30"

(8)

(16)

North

78

A

24"X12" DETOUR

21"X21'

6"X18'

M1-6

36"X36"

BRIDGE OUT

LOCAL TRAFFIC ONLY

R11-3B 60"X30"

6

DETOUR

1

(14)

DETOUR

SOUTH

78

4

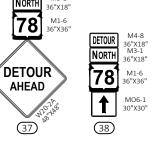
M1-6

36"X36

MO5-11

MO6-1

MILES AHEAD





LEGEND

 \otimes

MB

78

TYPE III BARRICADE

DIRECTION OF TRAFFIC

EXISTING SIGN

NORTH

78

 \rightarrow

(27)

M1-6 24"X24"

TYPE III BARRICADE WTH ATTACHED SIGN

PORTABLE CHANGEABLE MESSAGE BOARD

SIGN ON PERMANENT SUPPORT

EXISTING SIGN TO BE COVERED

SOUTH

78

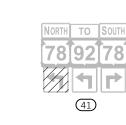
DETOUR

(40)

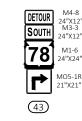
SOUTH

[78]

TYPE A WARNING LIGHT (FLASHING)







TRAFFIC CONTROL AND DETOUR GENERAL NOTES

1. DRAWINGS SHOW TRAFFIC CONTROL DETOUR FOR A TYPICAL SITUATION. ADDITIONAL

TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED

TRAFFIC CONTROL DETOUR PLAN SHALL BE REVIEWED WITH THE PROJECT ENGINEER

2. CONSIDER GEOMETRICS WHEN LOCATING TRAFFIC CONTROL SIGNS PCMS SO TRAFFIC HAS

A CLEAR VIEW OF THE BOARD FOR A MINIMUM OF 1000 FEET IN FRONT OF MESSAGE

MESSAGE 7 DAYS PRIOR TO THE EXPECTED START OF THE PROPOSED WORK THAT WILL

4. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC

5.LOCATION AND SPACING OF SIGNS MAYBE ADJUSTED TO FIT FIELD CONDITIONS AS

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

7. COVER, REMOVE, OR ALTER ANY EXISTING SIGNS THAT DISPLAY A CONFLICTING MESSAGE

3. PLACE TRAFFIC CONTROL SIGNS PCMS AND DISPLAY THE "PRIOR TO CONSTRUCTION"

REQUIRE BRIDGE CLOSURE, ADJUST THE MESSAGE DATE ACCORDINGLY.

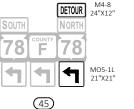
CONTROL DEVICES.

DIRECTED BY THE FIELD ENGINEER.

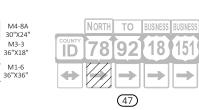
WITH THE PROPOSED DETOUR ROUTE.

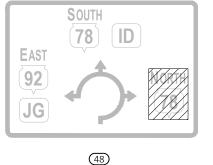
DEPENDING ON SITE CONDITIONS AS DIRECTED BY THE ENGINEER. ALL CHANGES TO THE













PCMS MESSAGE OVERVIEW ROAD CLOSED **BEGINS** (DATE)

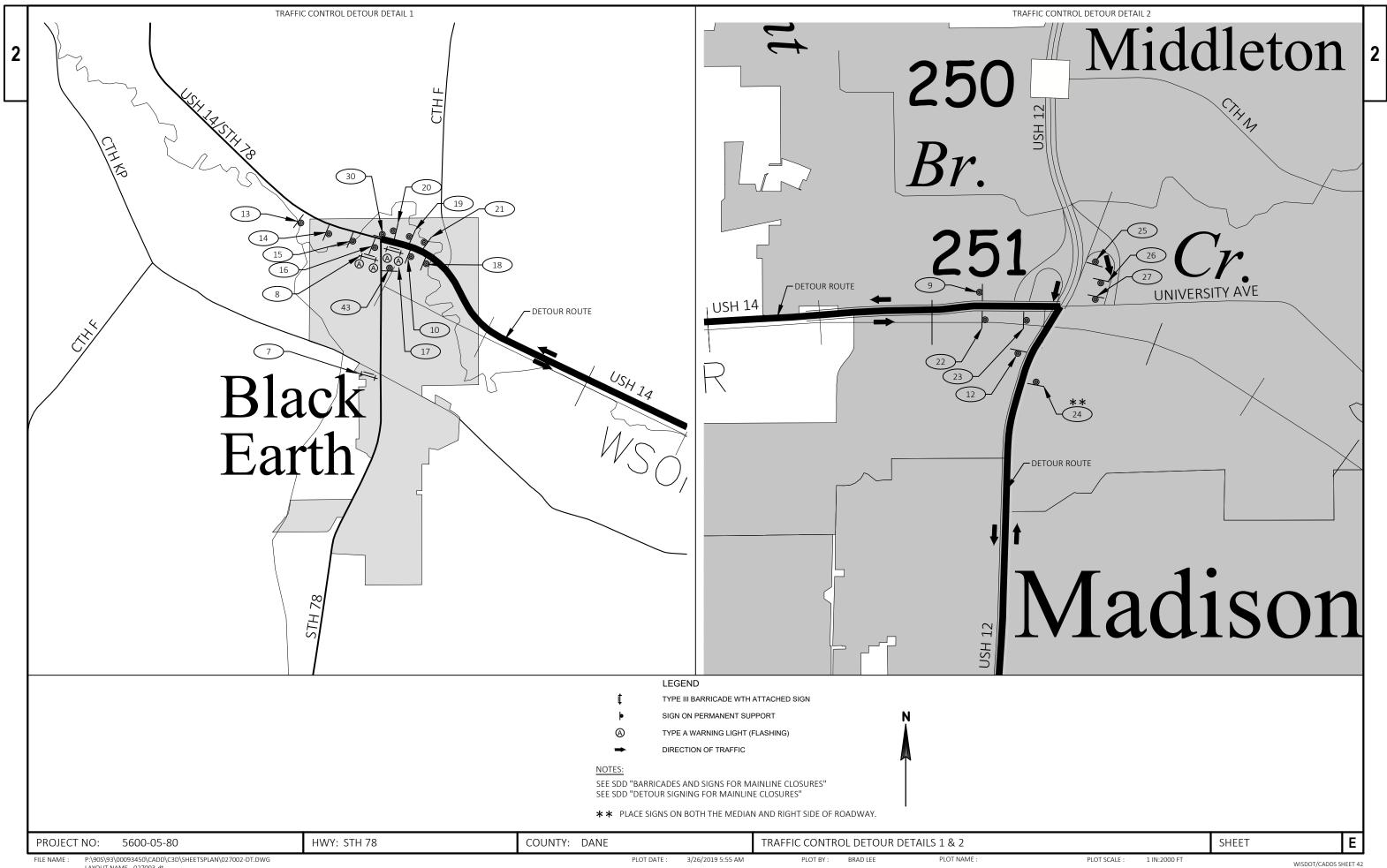
PROJECT NO: HWY: STH 78 COUNTY: DANE TRAFFIC CONTROL DETOUR PLAN LEGEND & NOTES SHEET 5600-05-80 FILE NAME P:\90S\93\00093450\CADD\C3D\SHEETSPLAN\027002-DT.DWG PLOT DATE · 3/26/2019 5:55 AM PLOT SCALE : 1 IN:40 FT

LAYOUT NAME - 027002-dt

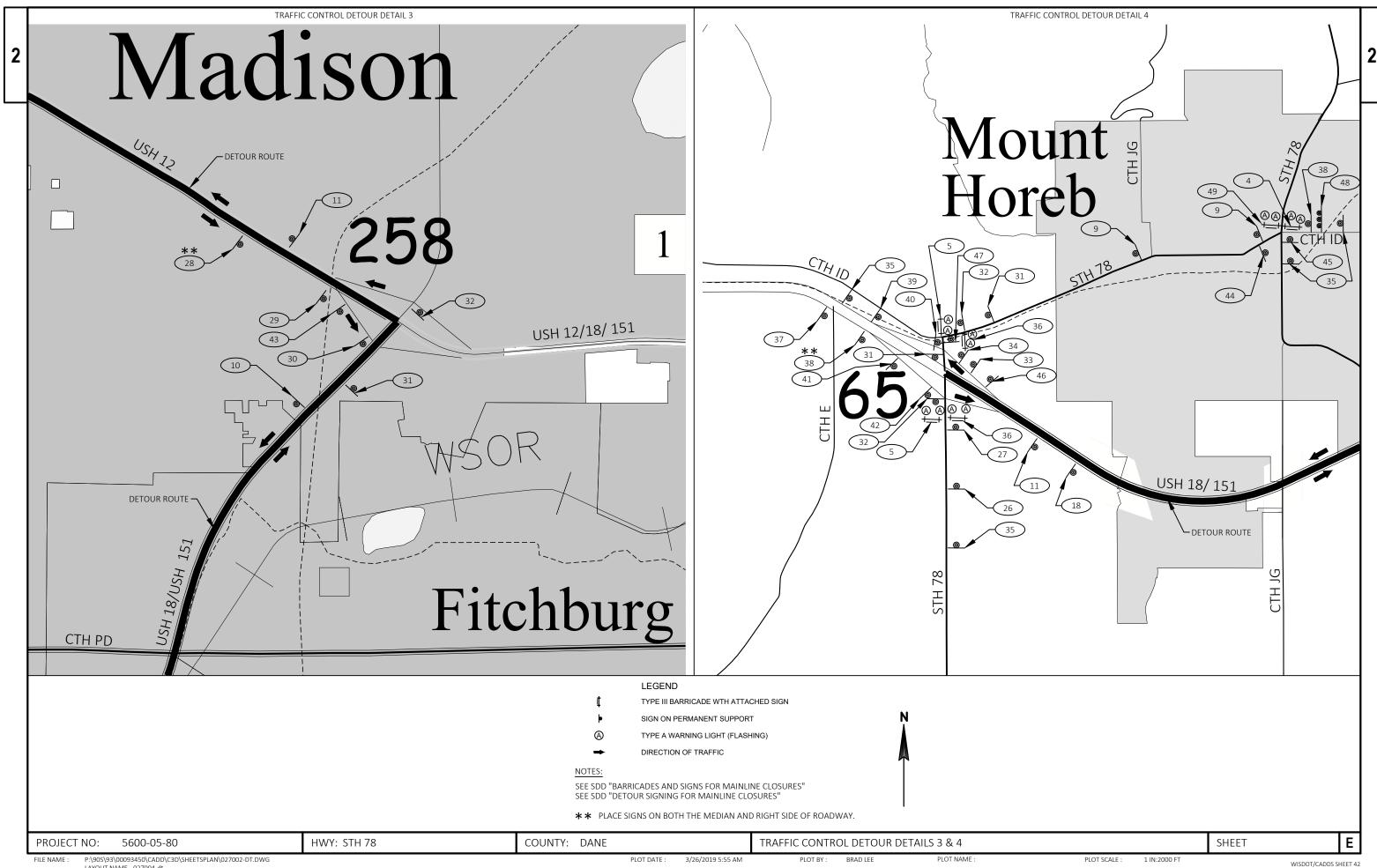
PLOT NAME PLOT BY: BRAD LEE

WISDOT/CADDS SHEET 42

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PLOT NAME : P:\90S\93\00093450\CADD\C3D\SHEETSPLAN\027002-DT.DWG PLOT DATE : 3/26/2019 5:55 AM PLOT SCALE: LAYOUT NAME - 027003-dt



LAYOUT NAME - 027004-dt

					5600-05-80
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	3.000	3.000
0004	201.0205	Grubbing	STA	3.000	3.000
0006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. B-13-134	EACH	1.000	1.000
8000	204.0165	Removing Guardrail	LF	675.000	675.000
0010	204.0170	Removing Fence	LF	70.000	70.000
0012	205.0100	Excavation Common	CY	987.000	987.000
0014	206.2000	Excavation for Structures Culverts (structure) 01. B-13-855	LS	1.000	1.000
0016	208.0100	Borrow	CY	349.000	349.000
0018	210.2500	Backfill Structure Type B	TON	2,520.000	2,520.000
0020	213.0100	Finishing Roadway (project) 01. 5600-05-80	EACH	1.000	1.000
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	75.000	75.000
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,120.000	1,120.000
0026	311.0110	Breaker Run	TON	540.000	540.000
0028	312.0110	Select Crushed Material	TON	865.000	865.000
0030	455.0605	Tack Coat	GAL	56.000	56.000
0032	465.0105	Asphaltic Surface	TON	284.000	284.000
0034	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	336.000	336.000
0036	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	250.000	250.000
0038	504.0100	Concrete Masonry Culverts	CY	374.000	374.000
0040	505.0400	Bar Steel Reinforcement HS Structures	LB	42,160.000	42,160.000
0042	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	2,860.000	2,860.000
0044	516.0500	Rubberized Membrane Waterproofing	SY	21.000	21.000
0046	606.0300	Riprap Heavy	CY	240.000	240.000
0048	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	200.000	200.000
0050	614.2300	MGS Guardrail 3	LF	387.500	387.500
0052	614.2330	MGS Guardrail 3 K	LF	162.500	162.500
0054	614.2350	MGS Guardrail Short Radius	LF	37.500	37.500
0056	614.2610	MGS Guardrail Terminal EAT	EACH	3.000	3.000
0058	614.2630	MGS Guardrail Short Radius Terminal	EACH	1.000	1.000
0060	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5600-05-80	EACH	1.000	1.000
0062	619.1000	Mobilization	EACH	1.000	1.000
0064	624.0100	Water	MGAL	41.000	41.000
0066	625.0500	Salvaged Topsoil	SY	520.000	520.000
0068	628.1504	Silt Fence	LF	730.000	730.000
0070	628.1520	Silt Fence Maintenance	LF	730.000	730.000
0072	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0074	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0076	628.2008	Erosion Mat Urban Class I Type B	SY	550.000	550.000
0078	628.7560	Tracking Pads	EACH	1.000	1.000
0800	629.0210	Fertilizer Type B	CWT	0.650	0.650
0082	630.0120	Seeding Mixture No. 20	LB	27.000	27.000
0084	630.0200	Seeding Temporary	LB	27.000	27.000
0086	630.0500	Seed Water	MGAL	25.000	25.000
8800	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	2,250.000	2,250.000
0096	643.0705	Traffic Control Warning Lights Type A	DAY	3,600.000	3,600.000
0098	643.0900	Traffic Control Signs	DAY	18,975.000	18,975.000

3

	5-80	

Line	Item	Item Description	Unit	Total	Qty
0100	643.0920	Traffic Control Covering Signs Type II	EACH	10.000	10.000
0102	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0104	643.5000	Traffic Control	EACH	1.000	1.000
0106	645.0105	Geotextile Type C	SY	535.000	535.000
0108	645.0120	Geotextile Type HR	SY	455.000	455.000
0110	646.1020	Marking Line Epoxy 4-Inch	LF	1,325.000	1,325.000
0112	650.4500	Construction Staking Subgrade	LF	250.000	250.000
0114	650.5000	Construction Staking Base	LF	250.000	250.000
0116	650.6500	Construction Staking Structure Layout (structure) 01. B-13-855	LS	1.000	1.000
0118	650.9910	Construction Staking Supplemental Control (project) 01. 5600-05-80	LS	1.000	1.000
0120	650.9920	Construction Staking Slope Stakes	LF	250.000	250.000
0122	690.0150	Sawing Asphalt	LF	445.000	445.000
0124	715.0502	Incentive Strength Concrete Structures	DOL	2,244.000	2,244.000
0126	999.2005.S	Maintaining Bird Deterrent System (station) 01. Station 249+62.92	EACH	1.000	1.000
0128	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0130	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	200.000	200.000
0132	SPV.0060	Special 01. Utility Line Opening (ULO)	EACH	1.000	1.000
0134	SPV.0060	Special 02. Boulder Retards	EACH	18.000	18.000
0136	SPV.0060	Special 03. Temporary Water Diversion, Culvert B-13-855	EACH	1.000	1.000

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7	
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CLE	ARING AND	GRUBBING		REMOV	ING GUARDR	AIL			REIVIC	OVING FENCE	:					ON		
		201.0105 CLEARING	201.0205 GRUBBING			204.0165 REMOVING	3				204.0170 REMOVING	O.T.	ATION - STATION	205.0100 EXCAVATION CO			EXPANDED FILL CY (2)	208.0100 BORROW CY
ATION - STATION			STA	STATION - STATION	LOCATION	GUARDRAI LF	L	STATION	- STATION	LOCATION	FENCE LF		47+00 - 252+75	CY (3) 987		CY (1) 944	1227	349
48+00 - 251+00	LT & RT	3	3	247+17 - 249+23	RT	206		248+63	- 248+99	RT	40							
	TOTALS:	3	3	248+84 - 249+56	LT	94		249+62	- 249+71	RT	30		TOTALS:	987		944	1227	349
				249+70 - 250+75 250+03 - 252+71	RT LT TOTAL:	106 269 675				TOTALS:	70	(2) - FI	LL EXPANSION 30°				AVATION TOTAL	S. SEE EARTHWORK
		FI	NISHING ROADWA	Y				BAS	SE AGGREG	ATE DENSE					AS	PHALTIC SURI	FACE	
				213.0100 FINISHING				BA		305.0120 BASE	242.0440						.0605	465.0105 ASPHALTIC SURFACE
				ROADWAY				AGGRE DEN		AGGREGATE DENSE	312.0110 SELECT	624.010	00	STATION -		1 G	BAL	TON
	P	DESCRIPTION ROJECT 5600-0		EACH 1				3/4-1	INCH	1 1/4-INCH	CRUSHED	WATER	R	247+00.00	252+75.0	0 !	56	284
				, 		STATION - 47+00.00 -	STATIOI 252+75.0		ON 75	TON 1120	TON 865	MGAL 41	<u></u>		TOTALS:	:	56	284
		TOTAL:		1		-,,00.00 -	TOTALS			1120	865							
		R	465.0425	465.0475 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL					614.2300 MGS GUARDRAIL 3	GUARDRAIL 614.2330 MGS - GUARDRAIL 3K	614.2350 MGS GUARDRAIL SHORT RADIUS	614.2610 MGS GUARDRAIL TERMINAL EAT	614.2630 MGS GUARDRAI SHORT RADIUS T TERMINAL	-			ı	R OF HAUL ROADS 618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS
		ASPI R : CCATION	465.0425 HALTIC SHOULDEF UMBLE STRIPS 2-LANE RURAL LF	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF		STATION - S		LOCATION	MGS GUARDRAIL 3 LF	614.2330 MGS - GUARDRAIL 3K LF	614.2350 MGS GUARDRAIL SHORT RADIUS LF	MGS GUARDRAIL TERMINAL EAT EACH	MGS GUARDRAI SHORT RADIUS T TERMINAL EACH	-		DESCRIPTI	I ION	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH
8+50.00 - 251	I+00.00	ASPI R : CCATION RT	465.0425 HALTIC SHOULDEF UMBLE STRIPS 2-LANE RURAL LF 192	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL		247+17 - 2	250+73	LOCATION RT	MGS GUARDRAIL 3 LF 150	614.2330 MGS GUARDRAIL 3K LF 100	614.2350 MGS GUARDRAIL SHORT RADIUS LF —	MGS GUARDRAIL TERMINAL EAT	MGS GUARDRAI SHORT RADIUS T TERMINAL	-		DESCRIPTI PROJECT 5600	ION 0-05-80	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS
8+50.00 - 251 9+25.00 - 251	l+00.00 l+00.00	ASPI R : CCATION	465.0425 HALTIC SHOULDEF UMBLE STRIPS 2-LANE RURAL LF	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF			250+73	LOCATION RT LT	MGS GUARDRAIL 3 LF 150 237.5	614.2330 MGS - GUARDRAIL 3K LF 100 62.5	614.2350 MGS GUARDRAIL SHORT RADIUS LF — 37.5	MGS GUARDRAIL TERMINAL EAT EACH 2 1	MGS GUARDRAI SHORT RADIUS T TERMINAL EACH 1	-		DESCRIPTI	ION 0-05-80	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH
48+50.00 - 251 49+25.00 - 251 48+50.00 - 251	l+00.00 l+00.00	ASPI R 2 DCATION RT LT	465.0425 HALTIC SHOULDEF UMBLE STRIPS 2-LANE RURAL LF 192 144	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF		247+17 - 2	250+73	LOCATION RT	MGS GUARDRAIL 3 LF 150	614.2330 MGS GUARDRAIL 3K LF 100	614.2350 MGS GUARDRAIL SHORT RADIUS LF —	MGS GUARDRAIL TERMINAL EAT EACH 2	MGS GUARDRAI SHORT RADIUS T TERMINAL EACH 	-		DESCRIPTI PROJECT 5600	ION 0-05-80	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH
48+50.00 - 251 49+25.00 - 251 48+50.00 - 251	I+00.00 I+00.00 I+00.00 C	ASPI R 2 DCATION RT LT	465.0425 HALTIC SHOULDEF UMBLE STRIPS 2-LANE RURAL LF 192 144	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF 250 250		247+17 - 2	250+73	LOCATION RT LT	MGS GUARDRAIL 3 LF 150 237.5	614.2330 MGS - GUARDRAIL 3K LF 100 62.5	614.2350 MGS GUARDRAIL SHORT RADIUS LF 37.5 37.5	MGS GUARDRAIL TERMINAL EAT EACH 2 1	MGS GUARDRAI SHORT RADIUS T TERMINAL EACH 1	-		DESCRIPTI PROJECT 5600 TOTAL:	ION 0-05-80	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH 1
18+50.00 - 251 19+25.00 - 251 18+50.00 - 251	I+00.00 I+00.00 I+00.00 C	ASPI R 2 DCATION RT LT	465.0425 HALTIC SHOULDEF UMBLE STRIPS 2-LANE RURAL LF 192 144 336 TOPSOIL AND SE 625.0500 SALVAGED	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF 250 250 EDING 629.0210 630.01 FERTILIZER SEEDII	NG SEE	247+17 - 2 248+84 - 2 	250+73 252+67 0.0500	LOCATION RT LT TOTAL:	MGS GUARDRAIL 3 LF 150 237.5 387.5	614.2330 MGS GUARDRAIL 3K LF 100 62.5	614.2350 MGS GUARDRAIL SHORT RADIUS LF 37.5 37.5	MGS GUARDRAIL TERMINAL EAT EACH 2 1 3 28.1504 62 SILT SILT ENCE MAIN	MGS GUARDRAI SHORT RADIUS T TERMINAL EACH 1 1 1 1 1 ENTERMINAL FENCE TENANCE	-		DESCRIPTI PROJECT 5600 TOTAL:	ION 0-05-80 ILIZATION EROSI 628.1905 MOBILIZATIO EROSION	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH 1 1 ON CONTROL 628.1910 MOBILIZATIC EMERGENCE
48+50.00 - 251 49+25.00 - 251 48+50.00 - 251	I+00.00 I+00.00 I+00.00 C	ASPI R 2 DCATION RT LT CENTER	465.0425 HALTIC SHOULDEF UMBLE STRIPS 2-LANE RURAL LF 192 144 336 TOPSOIL AND SE 625.0500 SALVAGED TOPSOIL	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF 250 250 EDING 629.0210 630.01 FERTILIZER SEEDII	NG SEE NO. 20 TEMP	247+17 - 2 248+84 - 2 	250+73 252+67 0.0500 0.0500	LOCATION RT LT TOTAL:	MGS GUARDRAIL 3 LF 150 237.5 387.5	614.2330 MGS GUARDRAIL 3K LF 100 62.5 162.5	614.2350 MGS GUARDRAIL SHORT RADIUS LF 37.5 37.5 SILT FENCE 62 LOCATION RT	MGS GUARDRAIL TERMINAL EAT EACH 2 1 3 28.1504 62 SILT SILT ENCE MAIN LF 195	MGS GUARDRAI SHORT RADIUS T TERMINAL EACH 1 1 1 1 1 E8.1520 FENCE TENANCE LF 195	-		DESCRIPTI PROJECT 5600 TOTAL:	ION 0-05-80 ILIZATION EROSI 628.1905 MOBILIZATIO	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH 1 1 ON CONTROL 628.1910 EMERGENC EROSION CONT
#8+50.00 - 251 #9+25.00 - 251 #8+50.00 - 251 TO **TO** **TO** **STATION - 247+00	- STATION - 251+00	ASPI R COCATION RT LT CENTER N LOCATIO	465.0425 HALTIC SHOULDEF UMBLE STRIPS 2-LANE RURAL LF 192 144 336 TOPSOIL AND SE 625.0500 SALVAGED TOPSOIL N SY 220	EDING 629.0210 629.0210 629.0210 629.0210 FERTILIZER TYPE B MIXTURE IS CWT LB 0.30 ANDER CONTENT AND	NG SEE NO. 20 TEMP	247+17 - 2 248+84 - 2 248+84 - 2 2000 630 EDING ORARY SEED B M	0.0500 0.WATER 1GAL 10	LOCATION RT LT TOTAL: S1 2 2	MGS GUARDRAIL 3 LF 150 237.5 387.5	614.2330 MGS GUARDRAIL 3K LF 100 62.5 162.5 STATION I 248+83 249+45	614.2350 MGS GUARDRAIL SHORT RADIUS LF 37.5 37.5 SILT FENCE 62 FLOCATION RT LT	MGS GUARDRAIL TERMINAL EAT EACH 2 1 3 3 28.1504 62 SILT SILT ENCE MAINT LF 195 65	MGS GUARDRAI SHORT RADIUS T TERMINAL EACH 1 1 1 1 8.1520 FENCE TENANCE LF 195 65	-		DESCRIPTI PROJECT 5600 TOTAL: MOBI	ION 0-05-80 ILIZATION EROSI 628.1905 MOBILIZATIC EROSION CONTROL EACH	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH 1 1 ON CONTROL 628.1910 MOBILIZATIO EMERGENC
#8+50.00 - 251 #9+25.00 - 251 #8+50.00 - 251 TO **TO** **TO** **STATION - 247+00 - 248+80	- STATION - 251+00 - 252+75	ASPI R COCATION RT LT CENTER N LOCATIO	465.0425 HALTIC SHOULDEF UMBLE STRIPS 2-LANE RURAL LF 192 144 336 TOPSOIL AND SE 625.0500 SALVAGED TOPSOIL N SY 220 275	EASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF 250 250 EDING 629.0210 630.01 FERTILIZER SEEDII TYPE B MIXTURE I CWT LB 0.30 13 0.25 11	NG SEE NO. 20 TEMP L	247+17 - 2 248+84 - 2 248+84 - 2 2010 2010 2010 2010 2010 2010 2010 20	0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500	LOCATION RT LT TOTAL: ST 2 2 2 2	MGS GUARDRAIL 3 LF 150 237.5 387.5	614.2330 MGS GUARDRAIL 3K LF 100 62.5 162.5 STATION 1 248+83 249+45 250+50	614.2350 MGS GUARDRAIL SHORT RADIUS LF 37.5 37.5 SILT FENCE 62 FLOCATION RT LT RT	MGS GUARDRAIL TERMINAL EAT EACH 2 1 3 3 28.1504 62 SILT SILT FENCE MAINT LF 195 65 150	MGS GUARDRAI SHORT RADIUS T TERMINAL EACH 1 1 1 1 8.1520 FENCE TENANCE LF 195 65 150	-	DI PROJ	DESCRIPTI PROJECT 5600 TOTAL: MOBI ESCRIPTION JECT 5600-05-8	ILIZATION EROSI 628.1905 MOBILIZATIO EROSION CONTROL EACH	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH 1 1 ON CONTROL 628.1910 DN MOBILIZATIC EMERGENC EROSION CONTENDE 2
48+50.00 - 251 49+25.00 - 251 48+50.00 - 251 TO STATION - 247+00 -	- STATION - 251+00 - 252+75	ASPI R COCATION RT LT CENTER N LOCATIO	465.0425 HALTIC SHOULDEF UMBLE STRIPS 2-LANE RURAL LF 192 144 336 TOPSOIL AND SE 625.0500 SALVAGED TOPSOIL N SY 220	EDING 629.0210 629.0210 629.0210 629.0210 FERTILIZER TYPE B MIXTURE IS CWT LB 0.30 ANDER CONTENT AND	NG SEE NO. 20 TEMP L	247+17 - 2 248+84 - 2 248+84 - 2 2010 2010 2010 2010 2010 2010 2010 20	0.0500 0.WATER 1GAL 10	LOCATION RT LT TOTAL: ST 2 2 2 2	MGS GUARDRAIL 3 LF 150 237.5 387.5	614.2330 MGS GUARDRAIL 3K LF 100 62.5 162.5 STATION 1 248+83 249+45 250+50 252+75	614.2350 MGS GUARDRAIL SHORT RADIUS LF 37.5 37.5 SILT FENCE 62 FLOCATION RT LT RT	MGS GUARDRAIL TERMINAL EAT EACH 2 1 3 3 28.1504 62 SILT SILT EENCE MAINT LF 195 65 150 260	MGS GUARDRAI SHORT RADIUS T TERMINAL EACH 1 1 1 1 8.1520 FENCE TENANCE LF 195 65		DI PROJ	DESCRIPTI PROJECT 5600 TOTAL: MOBI	ION 0-05-80 ILIZATION EROSI 628.1905 MOBILIZATIC EROSION CONTROL EACH	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH 1 1 ON CONTROL 628.1910 EMERGENC EROSION CONTENTER EROSION CONTENTER EACH

HWY: STH 78

COUNTY: DANE

MISCELLANEOUS QUANTITIES

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PROJECT NO: 5600-05-80

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SHEET

EROSION CONTROL REMOVING SIGNS MAINTAINING BIRD DETERRENT SYSTEM 628.2008 638.2602 638.3000 **EROSION MAT** 628.7560 999.2005.S REMOVING REMOVING SMALL URBAN CLASS I TRACKING MAINTAINING BIRD SIGN SUPPORTS SIGNS TYPE II TYPE B PADS DETERRENT SYSTEM LOCATION COMMENTS STATION EACH EACH STATION - STATION LOCATION EACH SY STATION 249+62.92 249+20 EXISTING OBJECT MARKER 248+50 - 250+50 250 DESCRIPTION LS 249+55 LT EXISTING OBJECT MARKER LT 265 249+00 - 250+75 PROJECT 5600-05-80 RT EXISTING OBJECT MARKER 249+70 UNDISTRIBUTED 35 LT 250+05 EXISTING OBJECT MARKER TOTALS: TOTAL: 550 TOTALS: TRAFFIC CONTROL 643.0420 643.0705 643.0900 643.0920 643.1050 TRAFFIC TRAFFIC TRAFFIC TRAFFIC TRAFFIC TRAFFIC TRAFFIC TRAFFIC TRAFFIC FIELD OFFICE CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL 643.5000 BARRICADES **BARRICADES** WARNING WARNING SIGNS SIGNS COVERING SIGNS SIGNS TRAFFIC CONTROL 642.5001 TYPE III TYPE III LIGHTS LIGHTS SIGNS **PCMS** PCMS TYPE A TYPE A TYPE II FIELD OFFICE LOCATION TYPE B DAYS EACH DAYS EACH DAYS **EACH** DAYS EACH **EACH** DAYS EACH BEGINNING OF PROJECT 750 DESCRIPTION EACH 75 525 10 5 375 PROJECT 5600-05-80 CTH JJ INTERSECTION 7 CTH JJ INTERSECTION 75 150 4 300 150 TOTAL: CTH F INTERSECTION 75 75 75 USH 14/STH 78 INTERSECTION 75 150 300 1,725 USH 14/CTH KP INTERSECTION 75 450 USH 14/CTH P INTERSECTION 75 450 USH 14/TWIN VALLEY RD INTERSECTION 75 450 USH 14/USH 12 INTERCHANGE 75 2,550 USH 12/CTH S INTERCHANGE 450 USH 12/USH 151 INTERCHANGE 75 34 2,550 75 450 USH 151/CTH PD INTERSECTION USH 151/CTH PB INTERCHANGE 75 450 TEMPORARY WATER DIVERSION USH 151/STH 69 INTERCHANGE 75 450 USH 151/CTH G INTERCHANGE 75 450 SPV.0060 USH 151/CTH PD INTERCHANGE 75 450 **TEMPORARY** 75 USH 151/CTH ID INTERCHANGE 450 WATER DIVERSION 75 4,200 STH 78/USH 151 INTERCHANGE 300 600 56 **CULVERT B-13-855** CTH JG INTERSECTION 75 225 DESCRIPTION EACH 150 STH 78/CTH ID INTERSECTION 75 300 1 275 PROJECT 5600-05-80 75 CTH S INTERSECTION 75 75 CTH J INTERSECTION 75 2 150 300 2 150 TOTALS: CTH J INTERSECTION END OF PROJECT 750 75 UNDISTRUBUTED 2 150 300 10 750 TOTALS: 2,250 3,600 18,975 10 14 *NOTE: TRAFFIC CONTROL COVERING SIGNS TYPE II INCLUDE 1 CYCLE FOR ALL NECESSARY SIGNS SAWING ASPHALT PAVEMENT MARKING CONSTRUCTION STAKING 690.0150 646.1020 646.1020 650.5000 650.9910 650.4500 650.9920 SAWING MARKING LINE MARKING LINE CONSTRUCTION CONSTRUCTION CONSTRUCTION **ASPHALT** EPOXY 4-INCH FPOXY 4-INCH STAKING STAKING STAKING STAKING STATION - STATION LOCATION ΙF WHITE EDGELINE DOUBLE YELLOW SUBGRADE BASE SUPPLEMENTAL SLOPE STAKES 247+00 - 248+50 151 STATION - STATION LOCATION LF ΙF CONTROL RT & LT 248+50 33 248+50 - 251+00 CENTER 500 STATION -STATION ΙF LS 248+50 - 249+00 51 LT 247+00 - 251+00 RT 400 250 248+50 251+00 250 250 251+00 RT & LT 33 LT 425 248+50 - 252+75 251+00 - 252+75 LT 177 TOTALS: 250 250 250 1325 TOTAL: TOTAL: 445

COUNTY: DANE

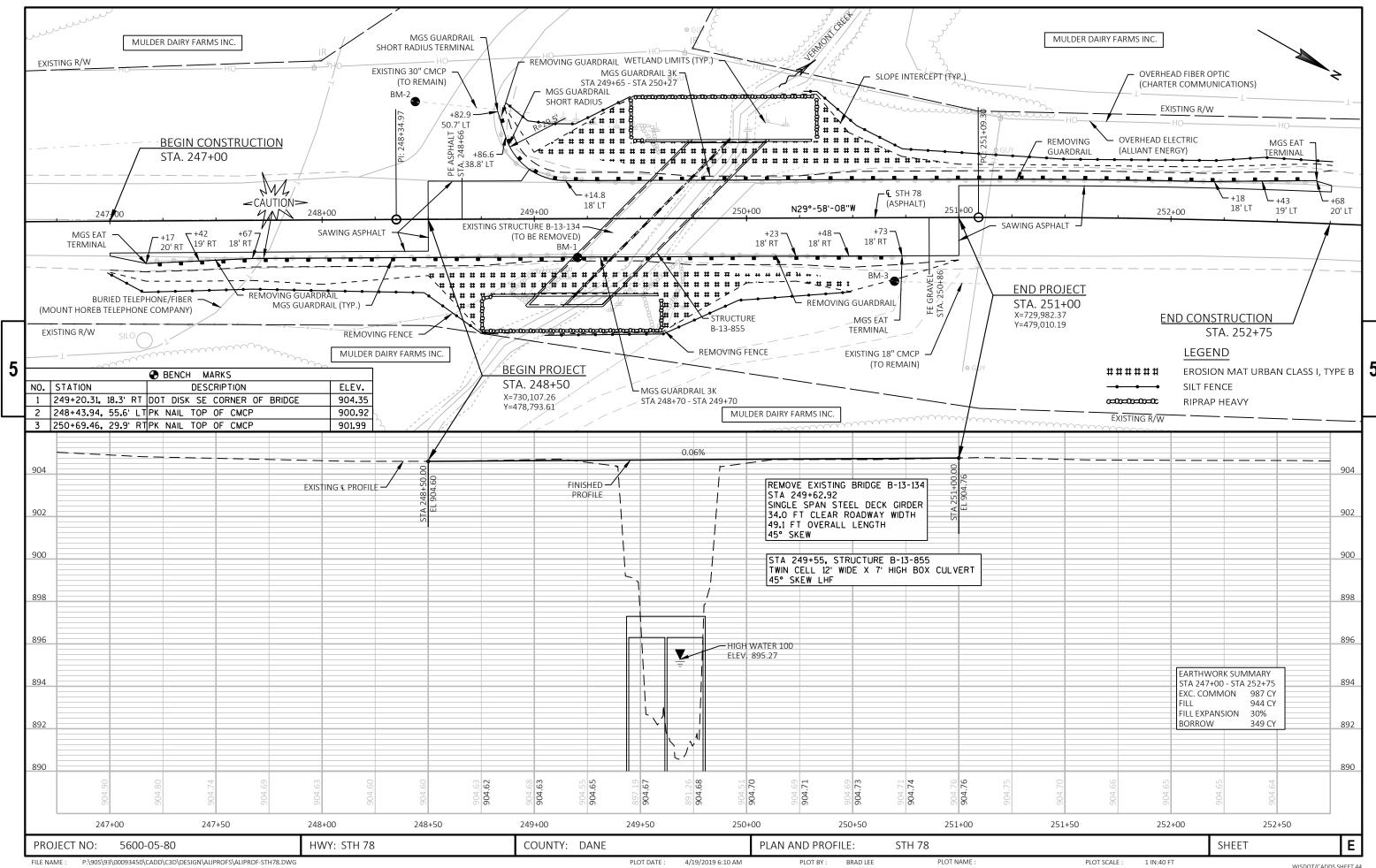
PLOT DATE :

5600-05-80

HWY: STH 78

PROJECT NO:

MISCELLANEOUS QUANTITIES



Standard Detail Drawing List

08E09-06	SILT FENCE
08E14-01	TRACKING PAD
12A03-10	NAME PLATE (STRUCTURES)
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C19-03	HMA LONGITUDINAL JOINTS
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B53-01A	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01B	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01C	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01D	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01E	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01F	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01G	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01H	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01I	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15С11-09В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

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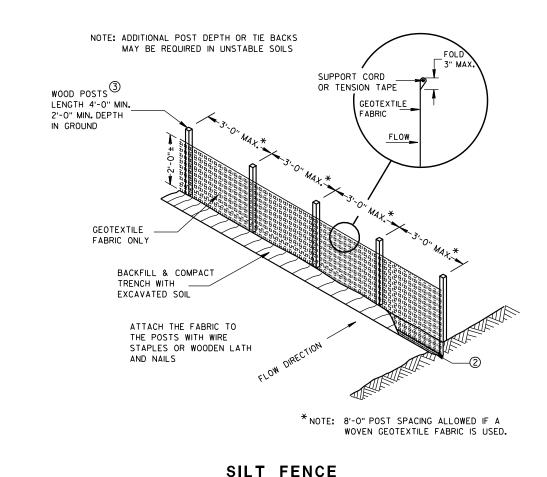
TYPICAL APPLICATION OF SILT FENCE

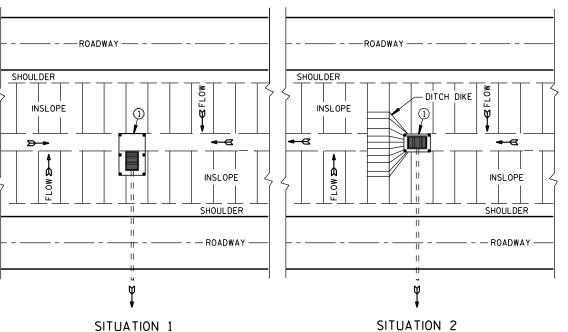
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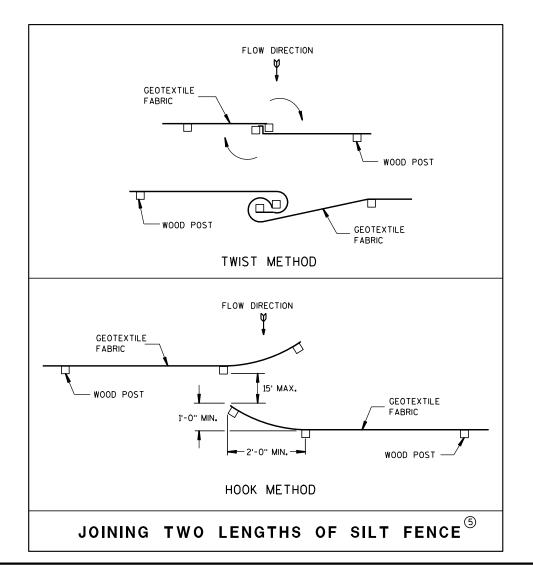
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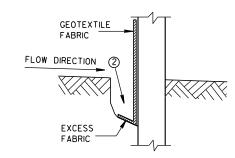
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



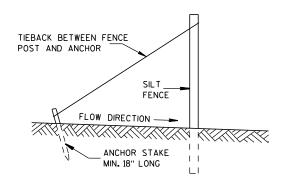
GENERAL NOTES

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 11/8" X 11/8" 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.



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

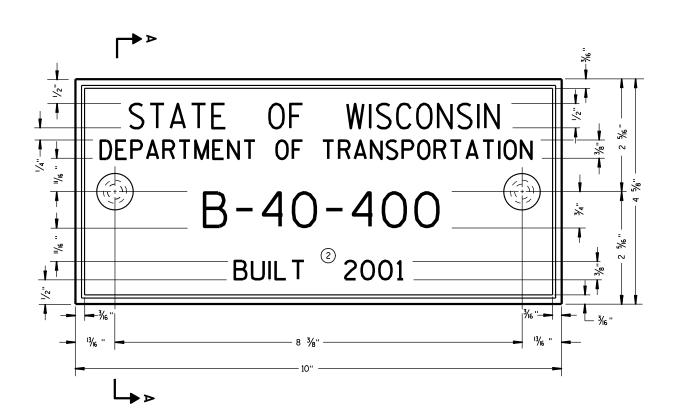
APPROVED

4-29-05
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

D.D. 8 E 9-6

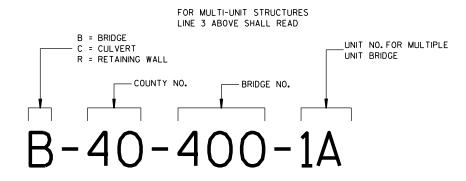
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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



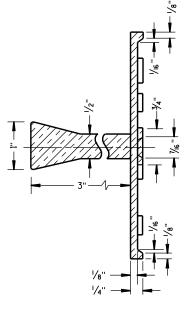
NUMBERING DESIGNATION **MULTI-UNIT STRUCTURES**

GENERAL NOTES

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.

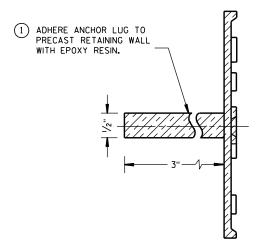
- (1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE



SPREAD TOP OF

SECTION A-A

ALTERNATE LUG



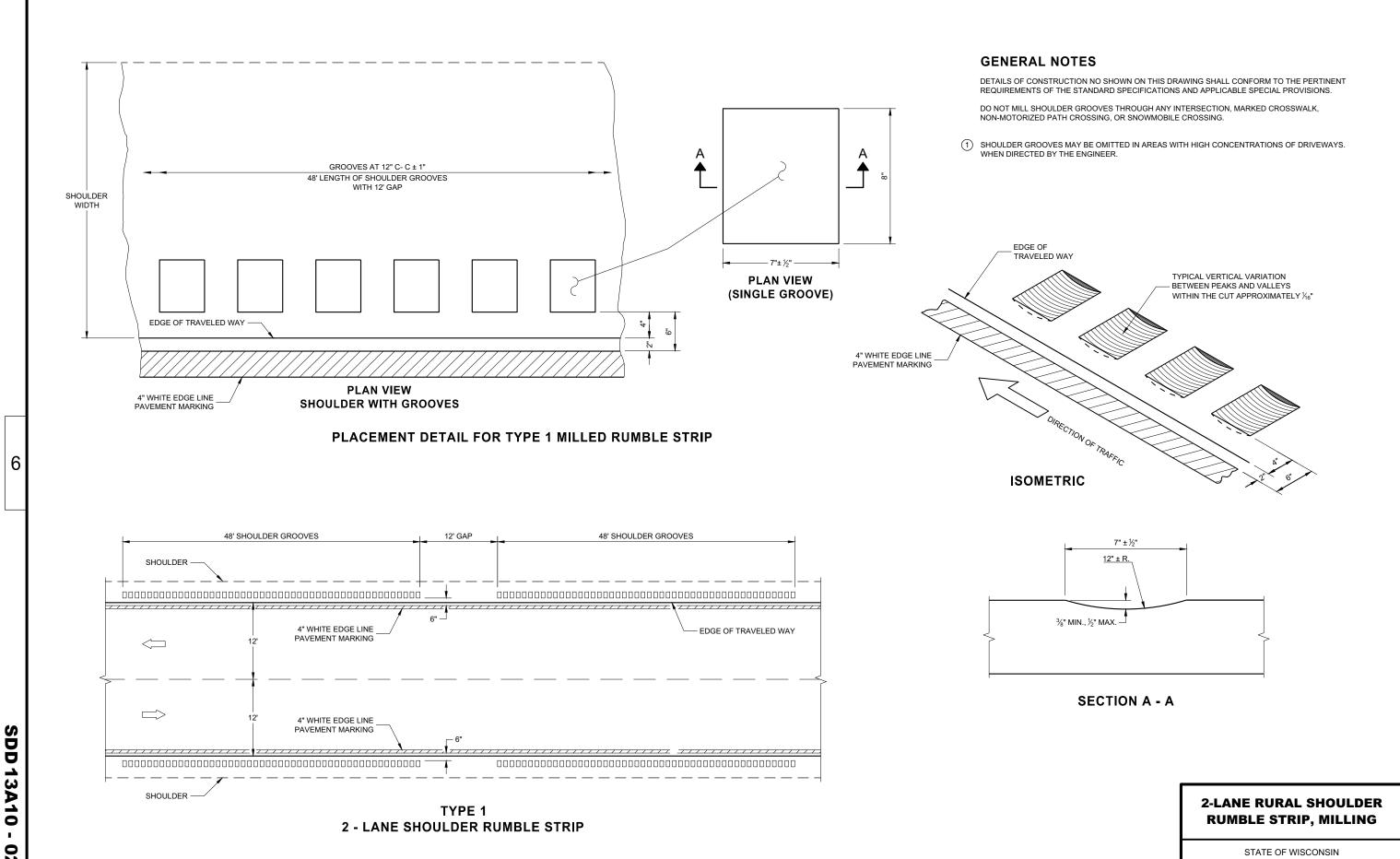
ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 3-10

APPROVED

/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER



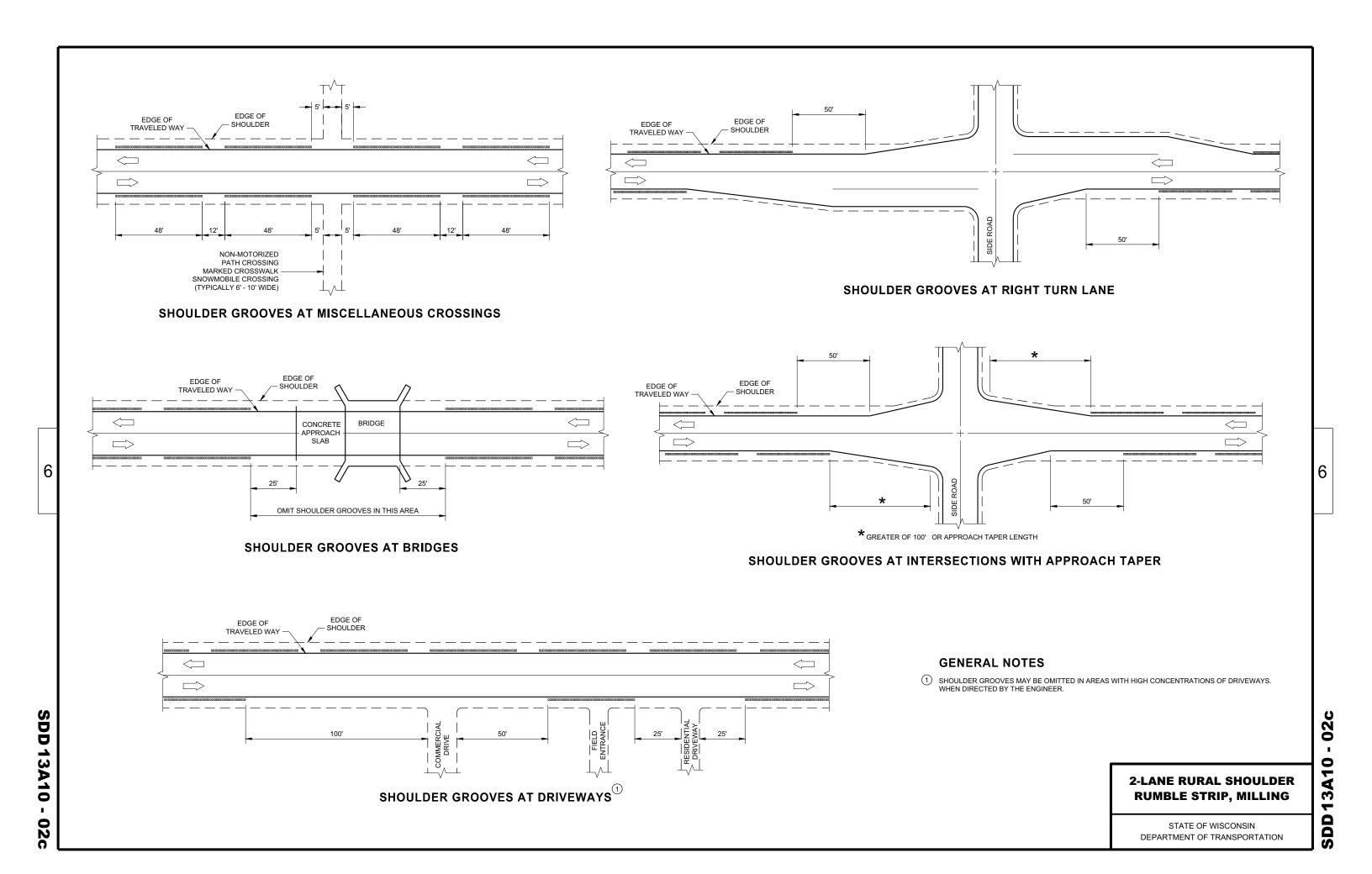
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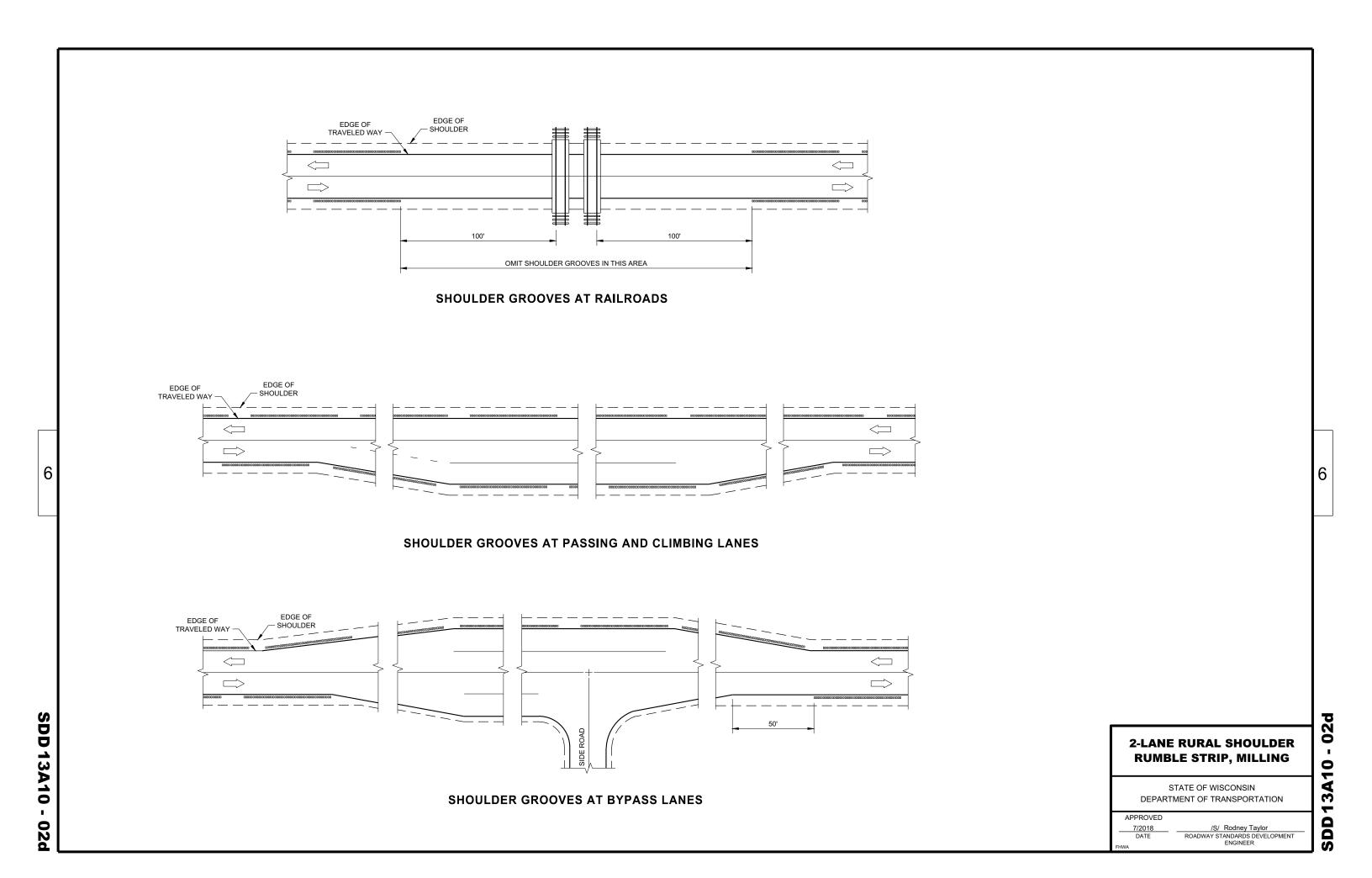
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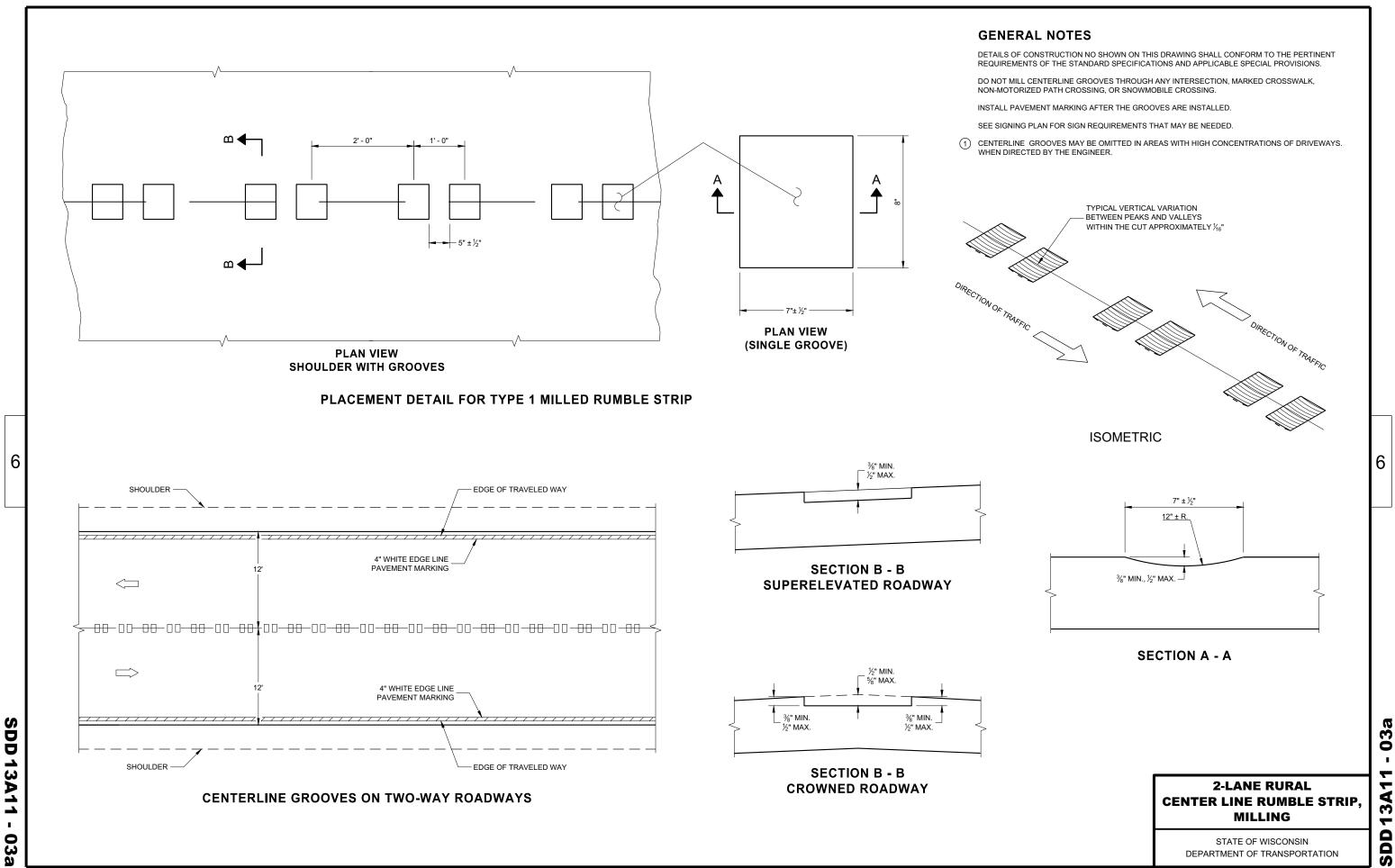
DEPARTMENT OF TRANSPORTATION

SDD

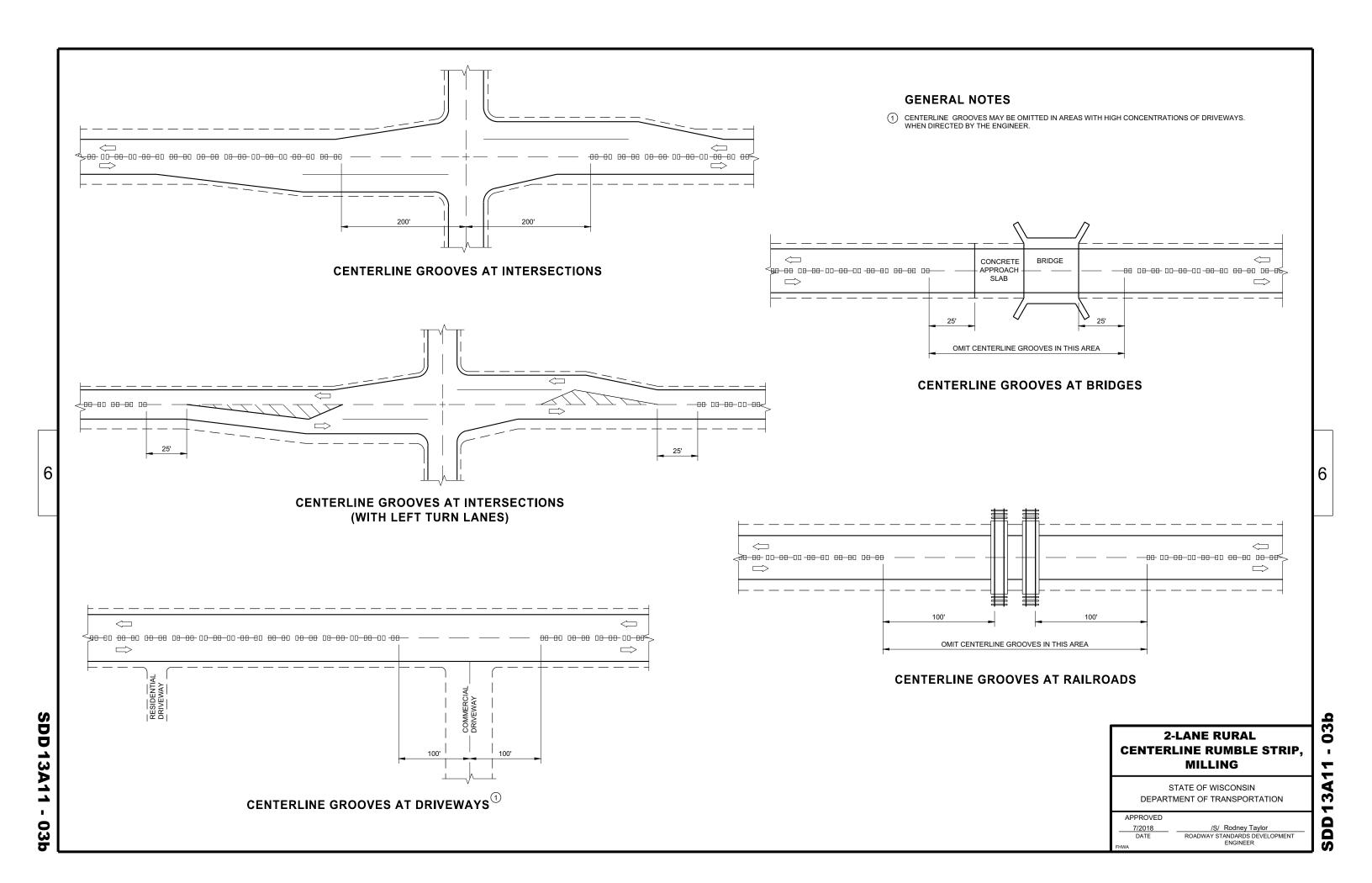
DEPARTMENT OF TRANSPORTATION

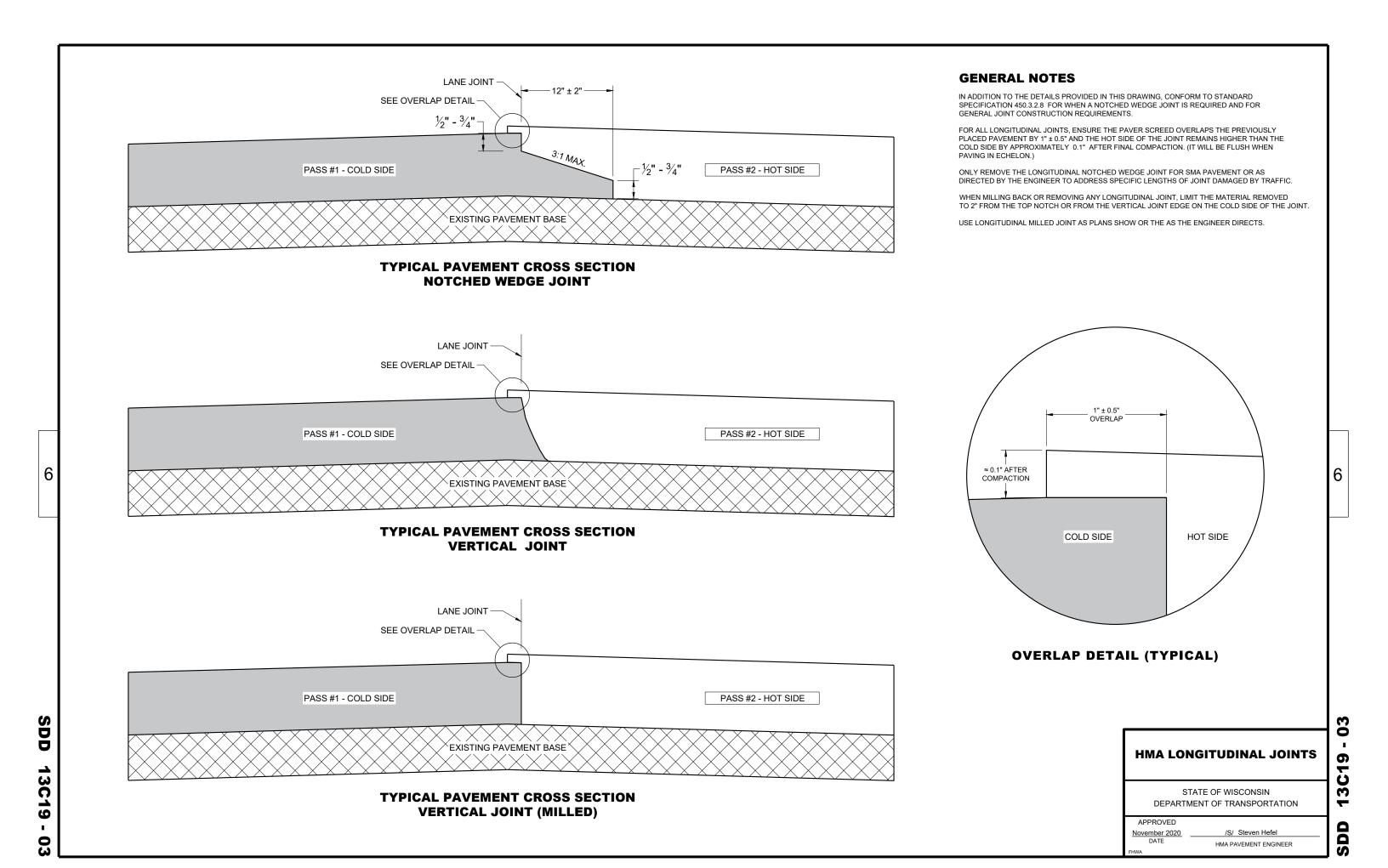




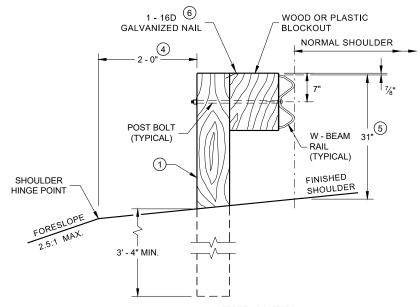


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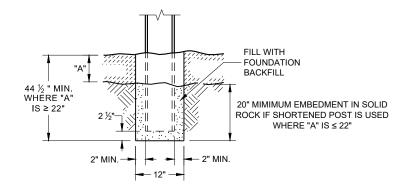




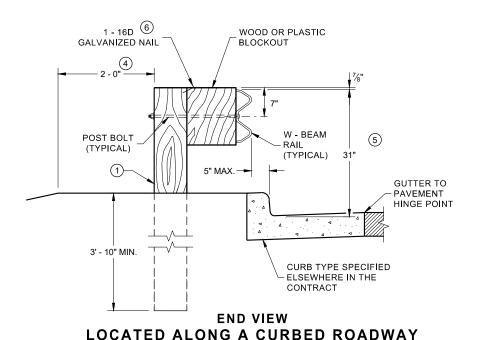
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.
- \bigcirc TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".

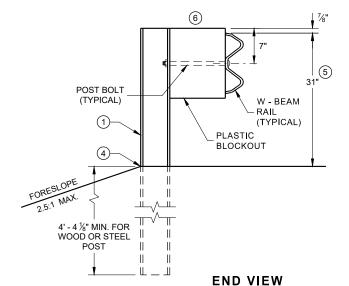


END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



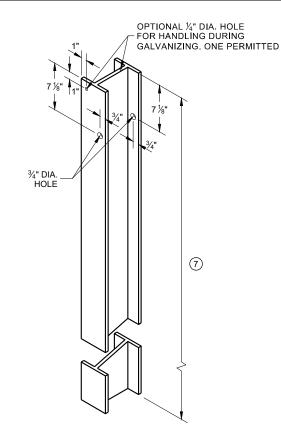
SETTING STEEL OR WOOD POST IN ROCK



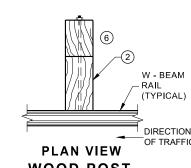


MGS LONGER POST AT HALFPOST

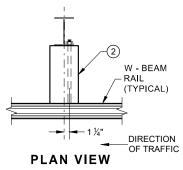
SPACING W BEAM (K)



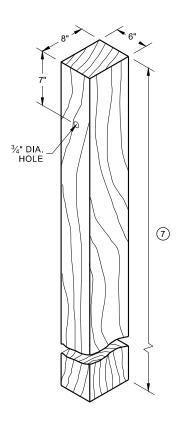
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) ①



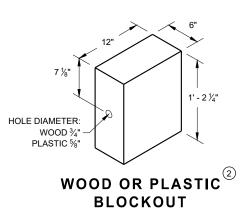
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST $_{\textcircled{1}}$ (6" X 8") NOMINAL



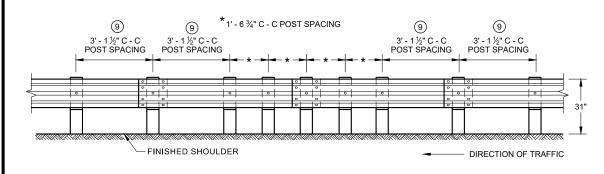
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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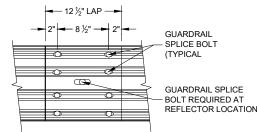
SDD 14B42 - 07a

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FRONT VIEW HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



FRONT VIEW **QUARTER POST SPACING (QS)**



FRONT VIEW MID-SPAN BEAM SPLICE

¾" X 2 ½" POST BOLT

REFLECTOR LOCATIONS

C POST HOLE SLOT

POST BOLT

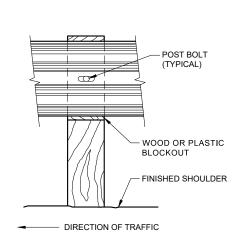
(TYPICAL)

- WOOD OR PLASTIC

BLOCKOUT

— DIRECTION OF TRAFFIC

FRONT VIEW AT STEEL POST



GENERAL NOTES

OF QUARTER POST SPACING.

RECESSED (DR) HEAVY HEX NUT.

OF THE ENERGY ABSORBING TERMINAL.

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

(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS

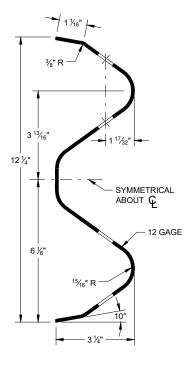
POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT

GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE

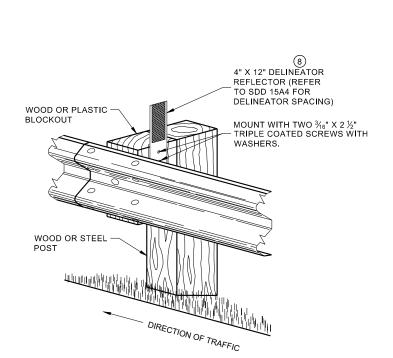
REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %"

DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

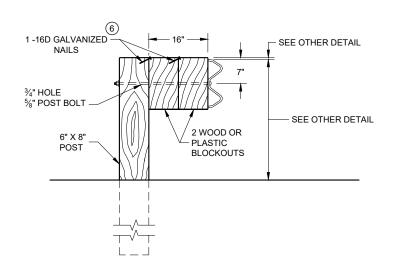
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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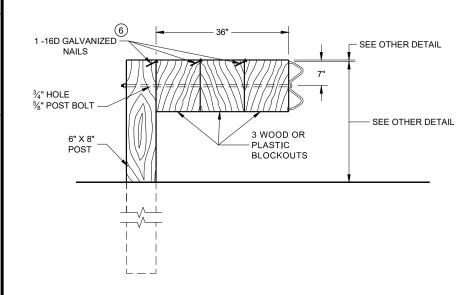
07b SDD

6



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



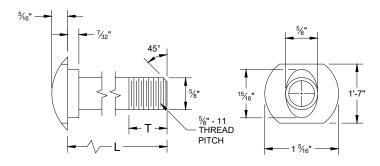
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

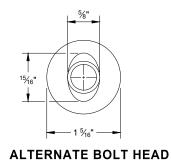
NOTE:

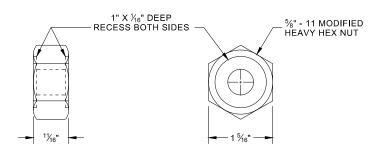
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

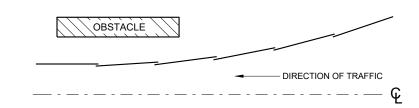
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



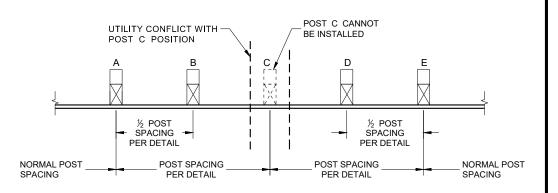


POST BOLT, SPLICE BOLT **AND RECESS NUT**

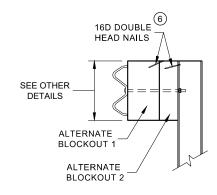
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

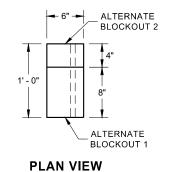


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

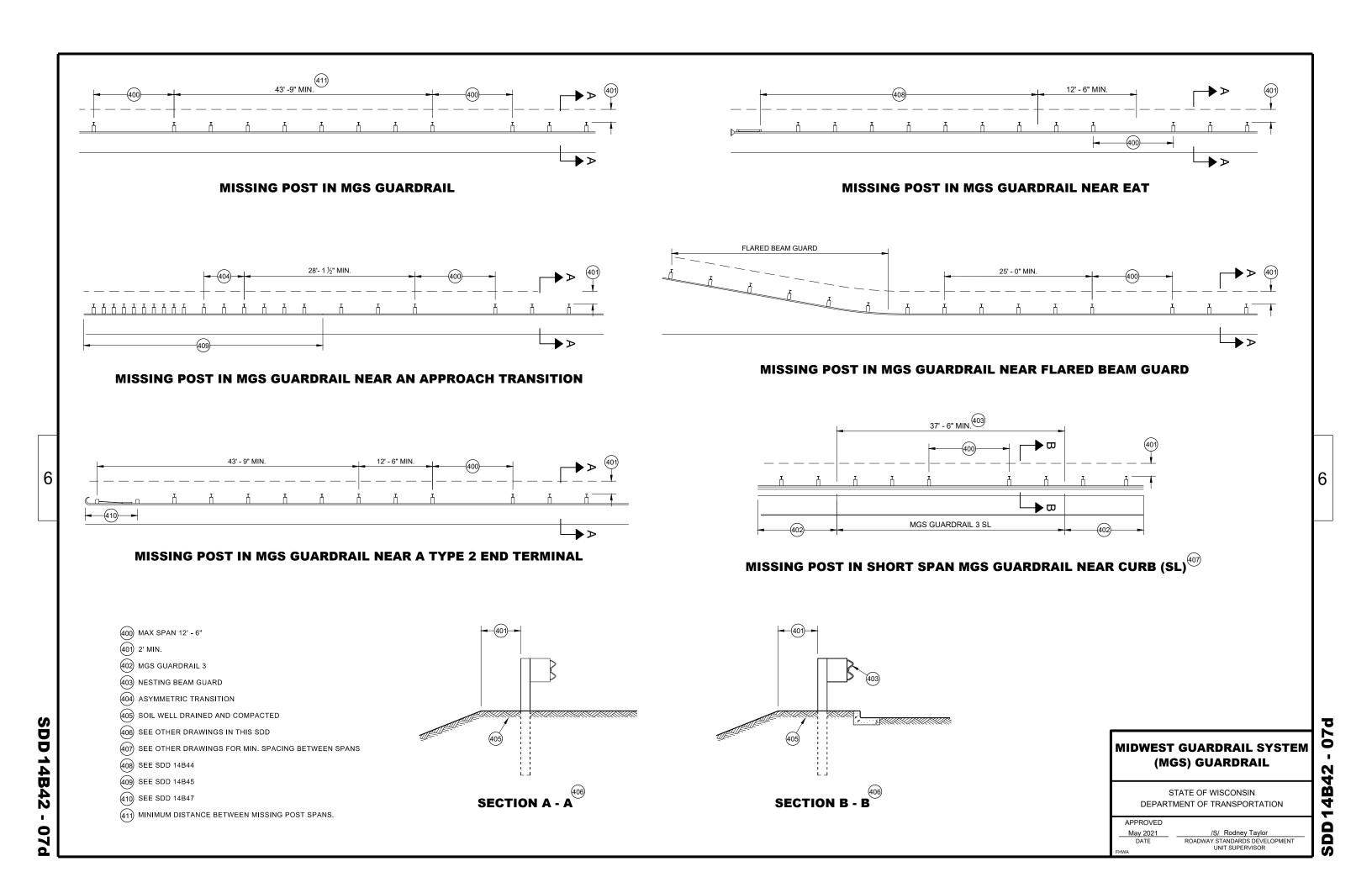
ALTERNATE WOOD BLOCKOUT DETAIL

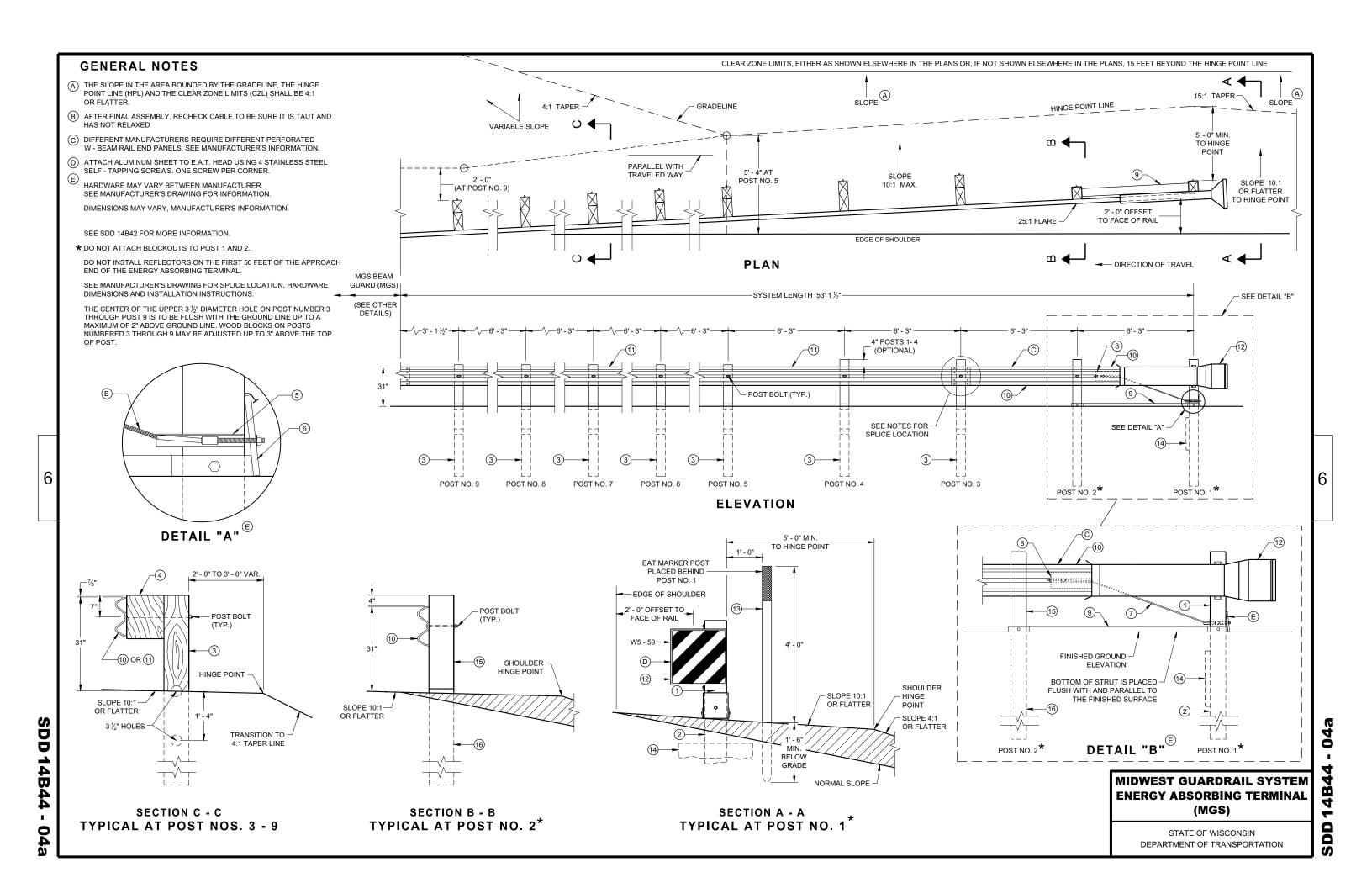
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

07

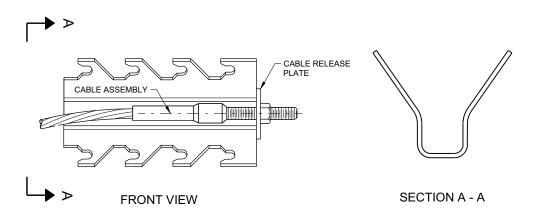
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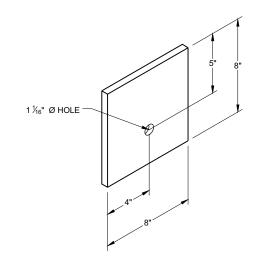




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX ^{(9) (E)}



BEARING PLATE

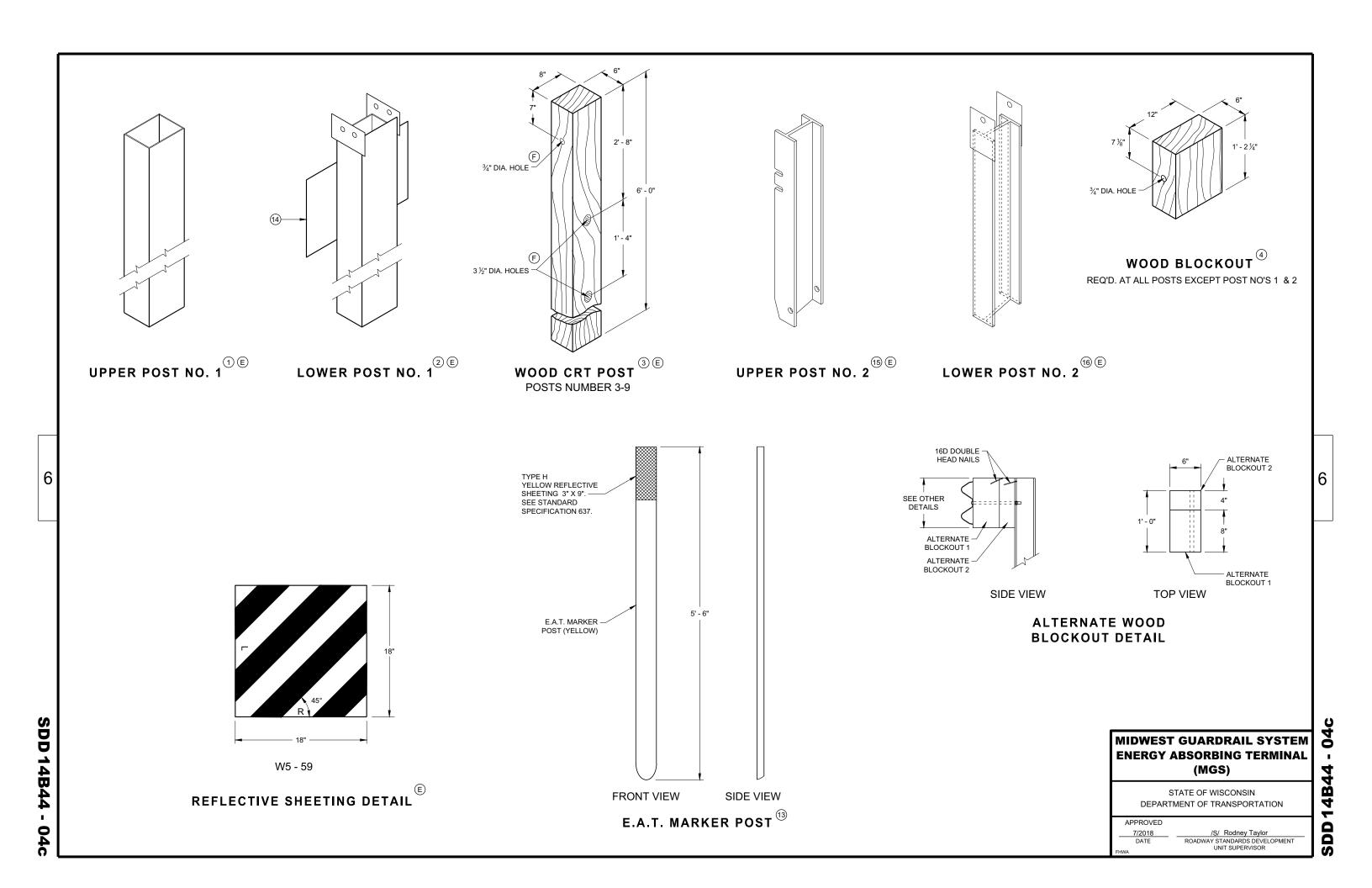
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

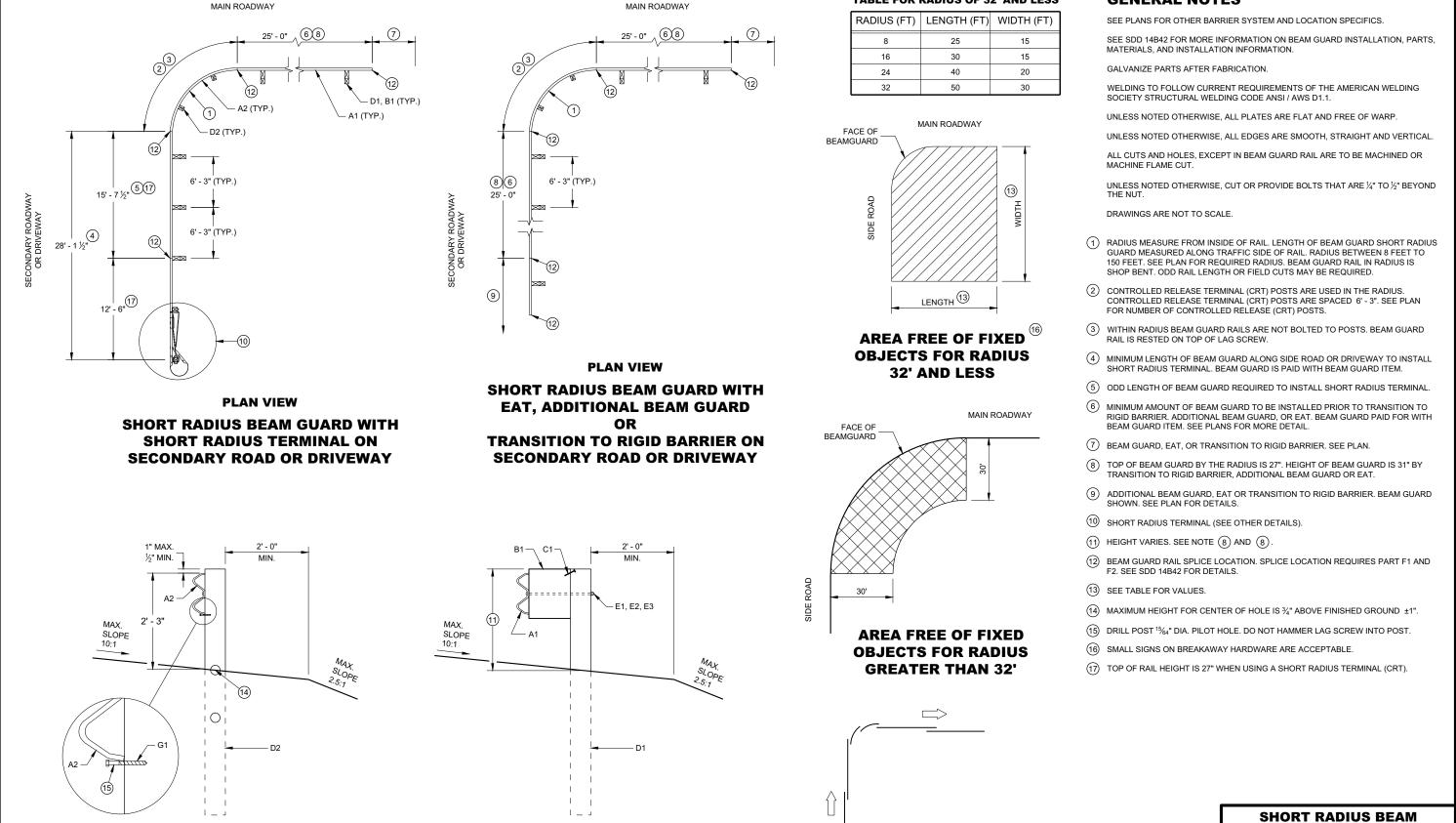
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BEAM GUARD POSTS

IN HEIGHT TRANSITION

SDD 14B53

0

CONTROLLED RELEASE

TERMINAL POST (CRT) IN RADIUS

SDD 14B53 - 01

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GUARD (MGS) SHORT

RADIUS TERMINAL (MGS)

GENERAL NOTES

TABLE FOR RADIUS OF 32' AND LESS

LAP SPLICE DETAIL

SHORT RADIUS TERMINAL

SDD 14B53

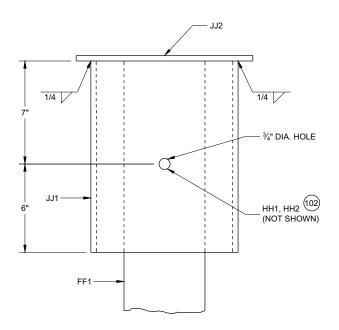
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SDD 14B53 - 01

GUARD (MGS) SHORT

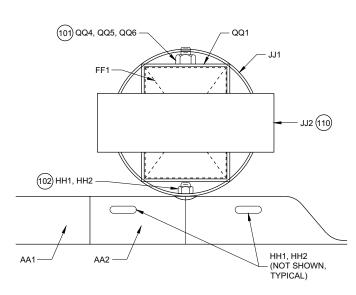
RADIUS TERMINAL (MGS)

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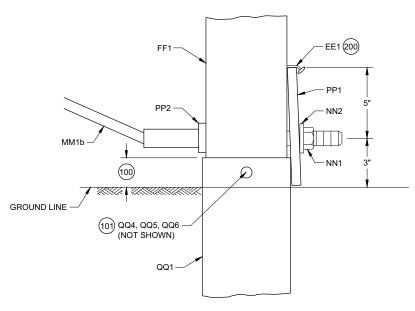


PROFILE VIEW

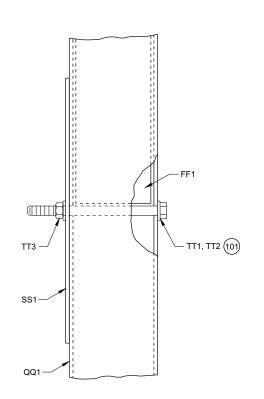
DETAIL "B" STEEL PIPE ASSEMBLY (BEAM GUARD AND W BEAM END SECTION NOT SHOWN)



PLAN VIEW
DETAIL "B"
STEEL PIPE ASSEMBLY



PROFILE VIEW
DETAIL "C"



PROFILE VIEW
DETAIL "D"

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

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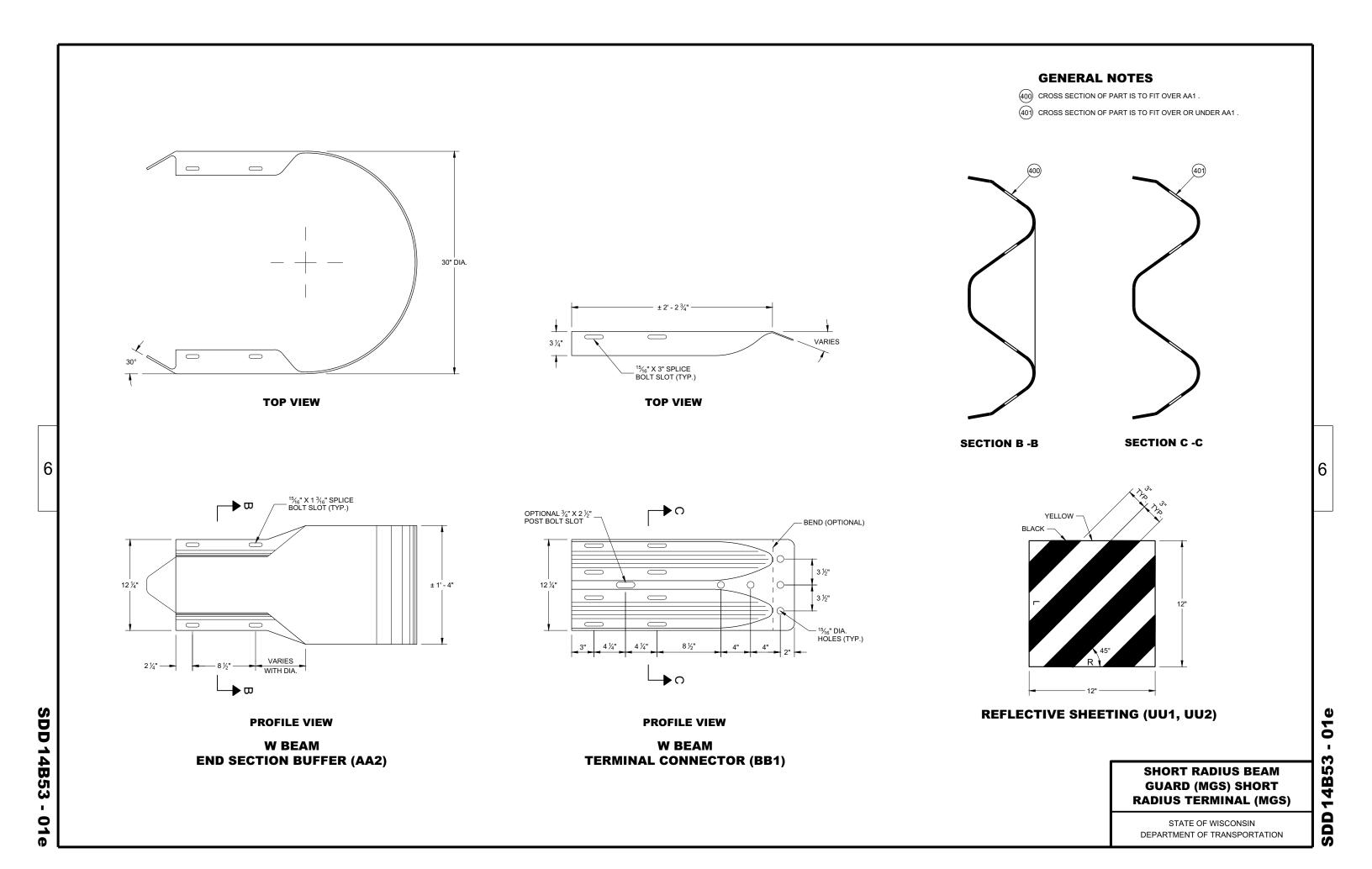
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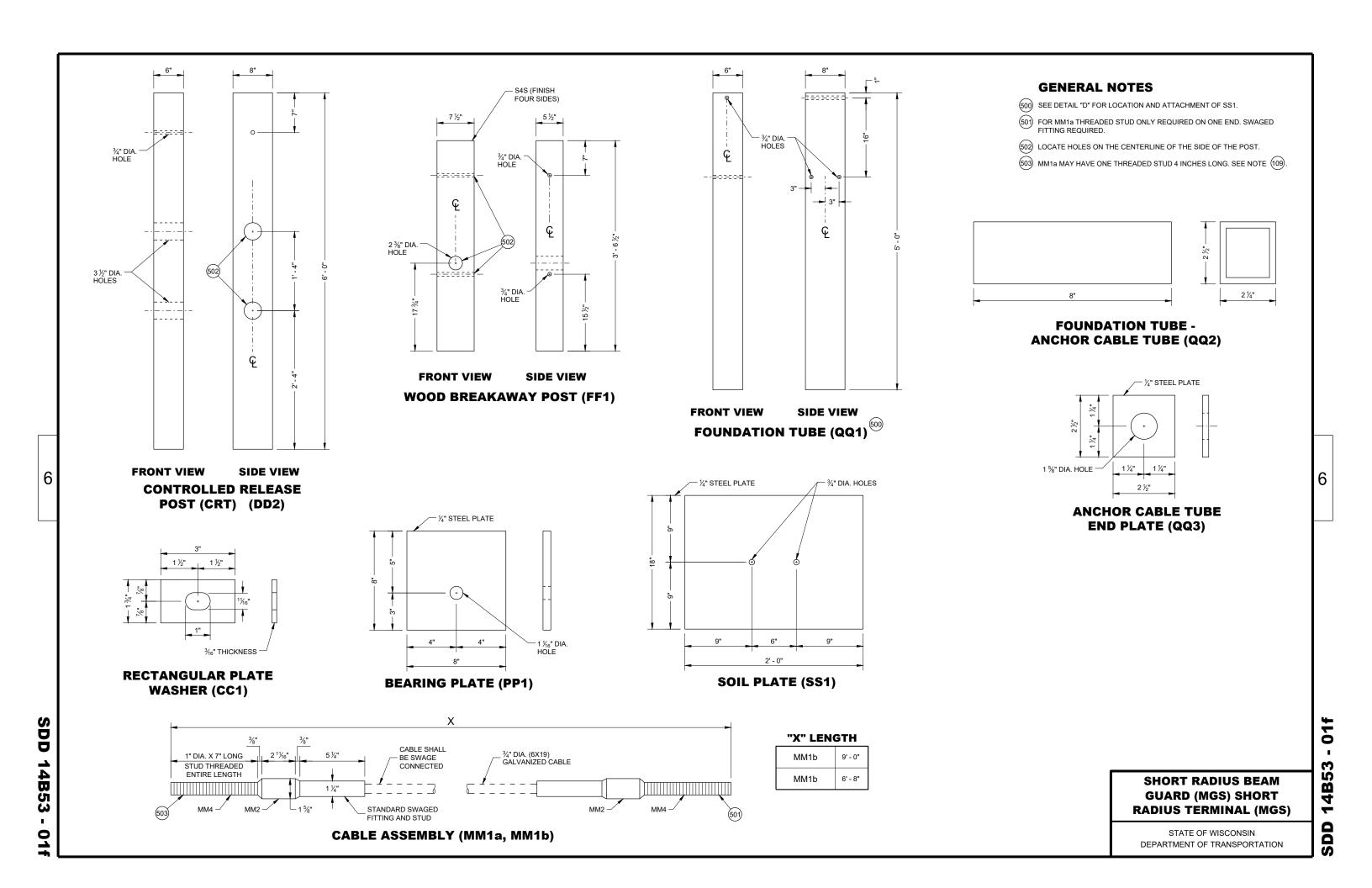
SDD 14B53 - 01c

SDD14B53-01c

SDD 14B53 - 01d

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION





PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES					
		AASHTO M180, CLASS A, TYPE 2						
A1	BEAM GUARD RAIL	APPROVED PRODUCER						
		INDICATE ON BACK OF RAIL THE RADIUS THAT RAIL WAS BENT TO. SHOP BEND RADIUS IS TO THE NEAREST FOOT. FOLLOW AASHTO M180 ON HOW TO MARK RADIUS INFORMATION.						
A2	BEAM GUARD RAIL - SHOP BENT	AASHTO M180, CLASS A, TYPE 2						
		APPROVED PRODUCER						
B1	BLOCK - WOOD	WISDOT SPEC. 614	SEE SDD 14B42					
C1	NAIL	ASTM A153 HOT DIP CLASS D						
	NAIL	ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEAD)						
D1	POST-STRONG POST-WOOD	WISDOT SPEC. 614	SEE SDD 14B42					
D2	POST-CRT-WOOD	WISDOT SPEC. 614						
		5%" DIA.						
E1	POST BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1						
		UNC						
E2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	5⁄6" DIA.					
LZ	POST BOLT - WASHEN	GALV. AASHTO M111/ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329						
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD						
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5%" DIA.					
E3	POST BOLT - NUT	UNC	SEE SDD 14B42 FOR BOLT GEOMETRY					
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563						
		ASTM A563 GRADE A HEAVY HEX HEAD						
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5∕8" DIA.					
F1	SPLICE BOLT	SPLICE BOLT ASTM A307 GRADE A OR SAE J429 GRADE 2						
		UNC	BOLT GEOMETRY					
		AASHTO M180						

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES			
		ASTM A563 GRADE A				
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD				
F2	SPLICE BOLT - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	5%" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY			
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563				
		UNC				
G1	LAG SCREW	ASTM A308 GRADE A ASTM A153 CLASS D	½" DIA. 6" LONG			
H1	DELINEATOR - BEAM GUARD		SEE SDD 14B42 FOR MORE INFORMATION			
		YELLOW OR WHITE				
H2	DELINEATION - SHEETING	WISDOT SPEC 637 TYPE SH				
		APPROVED PRODUCT LIST				
J1	FOUNDATION BACKFILL	STANDARD SPEC. 614				
0.04	DEAM CHARD DAIL BUNCHED	AASHTO M180, CLASS A, TYPE 2				
AA1	BEAM GUARD RAIL - PUNCHED	APPROVED PRODUCER				
AA2	BEAM GUARD RAIL - END SECTION	EAM GUARD RAIL - END SECTION AASHTO M180, CLASS A, TYPE 2				
AAZ	BUFFER	APPROVED PRODUCER				
BB1	BEAM GUARD RAIL - TERMINAL	AASHTO M180, CLASS A, TYPE 2				
ВВТ	CONNECTOR MODIFIED	APPROVED PRODUCER				
CC1	SHORT RADIUS - SQUARE	AASHTO M180				
CCT	WASHER	GALV. AASHTO M111/ASTM A123				
EE1	NAIL	ASTM A153 HOT DIP CLASS D				
661	IVAIL	ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEADED)				
FF1	POST - BCT - WOOD	S4S FINISH ON 4 SIDES				
111	F031-B01-W00D	WISDOT SPEC. 614				
		ASTM A307 GRADE A OR SAE J429 GRADE 2	3%" DIA.			
		AASHTO M180	SEE SDD 14B42 FOR BOLT GEOMETRY			
GG1	POST BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1				
		UNC				
GG2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	- ¾" DIA.			
		GALV. AASHTO M111/ ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329				

SHORT RADIUS BEAM **GUARD (MGS) SHORT** RADIUS TERMINAL (MGS)

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PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES				
		ASTM A563 GRADE A	¾" DIA.				
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	SEE 14B42 FOR GEOMETRY				
GG3	POST BOLT - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1					
		UNC	-				
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563					
		ASTM A563 GRADE A HEAVY HEX HEAD					
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	3∕4" DIA.				
нн1	SPLICE BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	SEE SDD 14B42 FOR				
		UNC	BOLT GEOMETRY				
		AASHTO M180 HEAD GEOMETRY					
		ASTM A563 GRADE A					
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD					
HH2	SPLICE BOLT - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	3/6" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY				
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563 UNC					
JJ1	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	10" O.D.				
JJ2	TOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS %" X 4" X 1' - 0"				
		GALV. AASHTO M111 / ASTM A123					
KK1	ANCHOR BRACKET	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI					
		GALV. AASHTO M111 / ASTM A123					
KK2	ANCHOR BRACKET - BEARING PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI					
		GALV. AASHTO M111 / ASTM A123					
		ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD					
LL1	ANCHOR BRACKET - BOLT	ANCHOR BRACKET - BOLT GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1					
		UNC	1				

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PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
		ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	
LL2	ANCHOR BRACKET - WASHER	GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	%" DIA.
		ASTM A563 GRADE A	
LL3	ANCHOR BRACKET - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5⁄8" DIA.
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
MM1a	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM1b	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
		ASTM A576 GRADE 1035	
MM2		SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. WITH A BREAKING STRENGTH 40,000 LBS.	
	ANCHOR CABLE - SWAGE FITTING	GALV. AASHTO M111 / ASTM A123	
		ASME B30.26 FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING INTO CONNECTION: NAME OF MANUFACTURER OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE.	
MM2	WIDE DODE CARLE OF AMPS	FF-C-450D TYPE 1 CLASS 1	3/"
MM3	WIRE ROPE CABLE CLAMPS	ASTM A153 HOT DIP CLASS D	3⁄4"
		ASTM F3125 GRADE A325 TYPE 1 OR SAE GRADE 5 OR ASTM A449 TYPE 1 HEAVY HEX HEAD	
MM4	ANCHOR CABLE - SWAGE FITTING - STUD	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		ASTM A563 GRADE A	
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
NN1	ANCHOR CABLE - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	1" DIA.
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
		ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	
NN2	ANCHOR CABLE - NUT - WASHER	GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	1" DIA.

SHORT RADIUS BEAM **GUARD (MGS) SHORT** RADIUS TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SDD 14B53 - 01h

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES			
SS1	SOIL PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI				
		GALV. AASHTO M111/A123				
		ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD				
TT1	SOIL PLATE - BOLT	SOIL PLATE - BOLT GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1				
		UNC				
TT2		ASTM F436 TYPE 1 (HARDEN WASHER ONLY)				
	SOIL PLATE - WASHER	GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	% DIA.			
TT3	SOIL PLATE - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	% DIA.			
		MUTCD / WISDOT OBJECT MARKER TYPE 3	PATTERN AND			
UU1	OBJECT MARKER - SHEETING	WISDOT SPEC 637 TYPE F	COLOR FOR SHEETING. SHEETING TYPE			
		APPROVED PRODUCT LIST	FOR MARKER.			
UU2	OBJECT MARKER - ALUMINUM PLATE	WISDOT SPEC 637 ALUMINUM PLATE	MATERIAL AND THICKNESS OF MATERIALS			
UU3	OBJECT MARKER - SCREWS	STAINLESS SELF-TAPPING SCREWS				
VV1	FOUNDATION BACKFILL	WISDOT SPEC 614				

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 /S/ Rodney Taylor

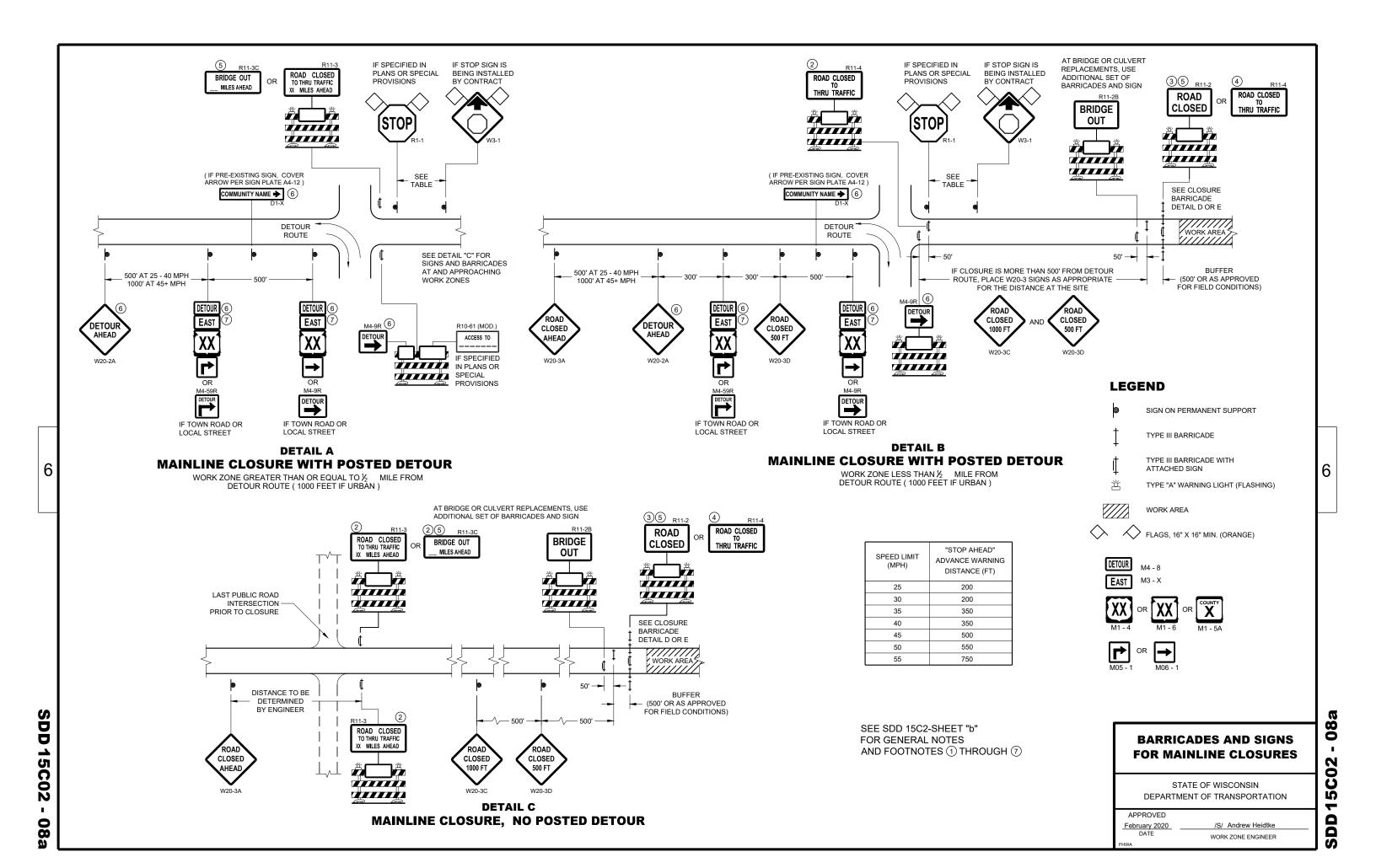
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

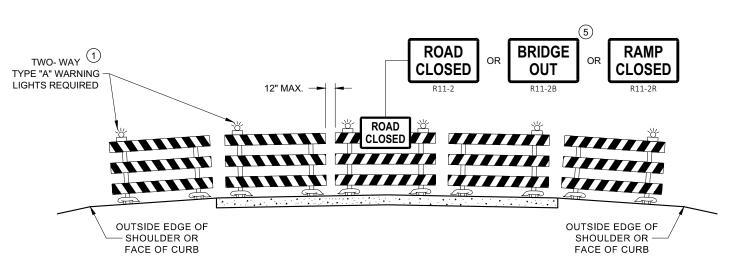
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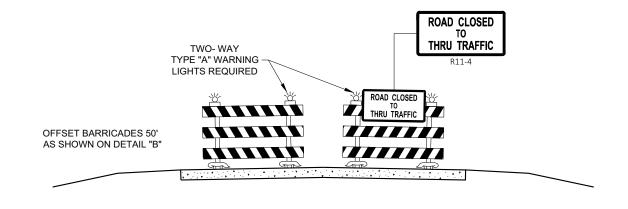
14B53

SD





DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

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

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE 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)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" 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 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> 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 ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

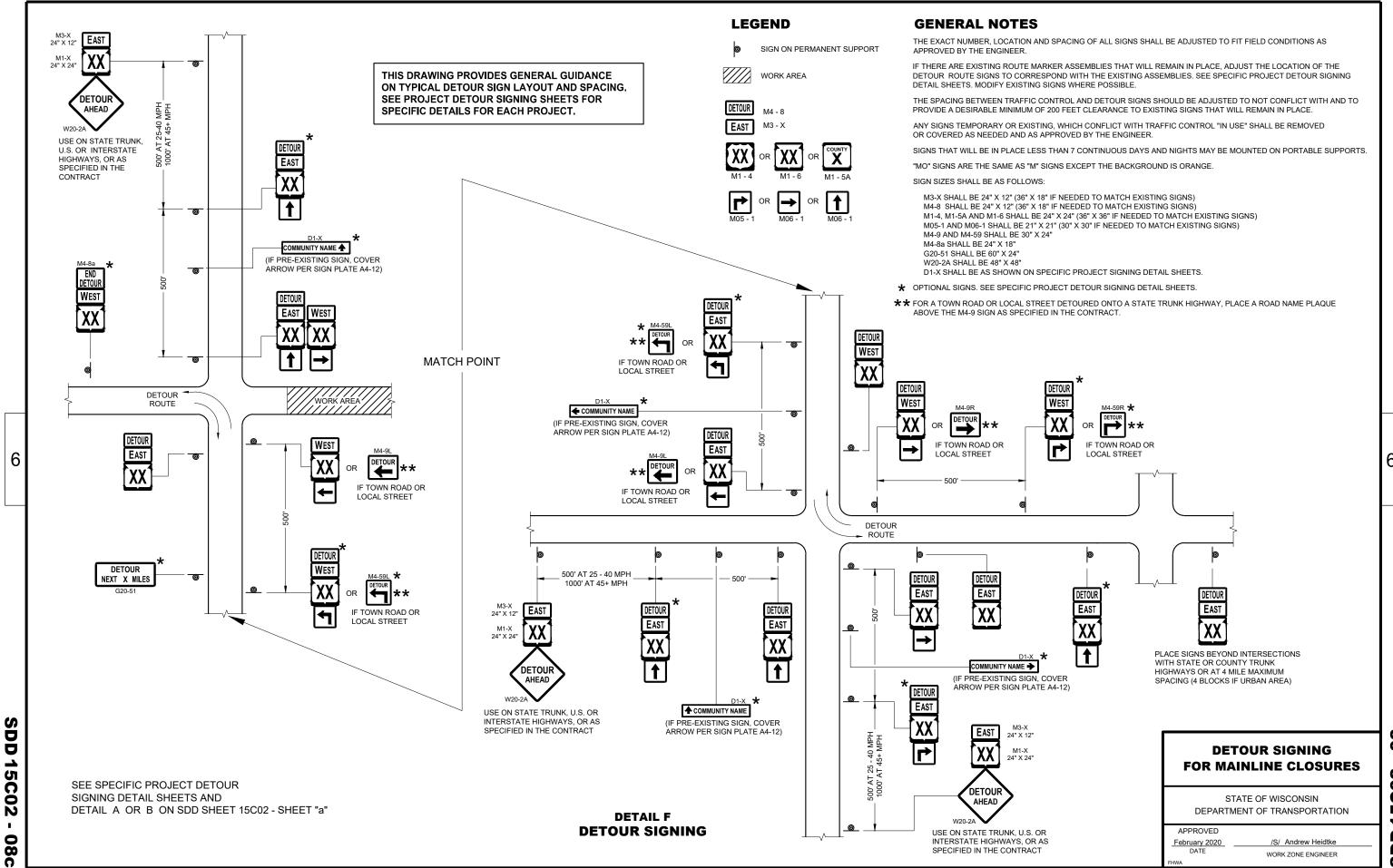
APPROVED

February 2020
DATE

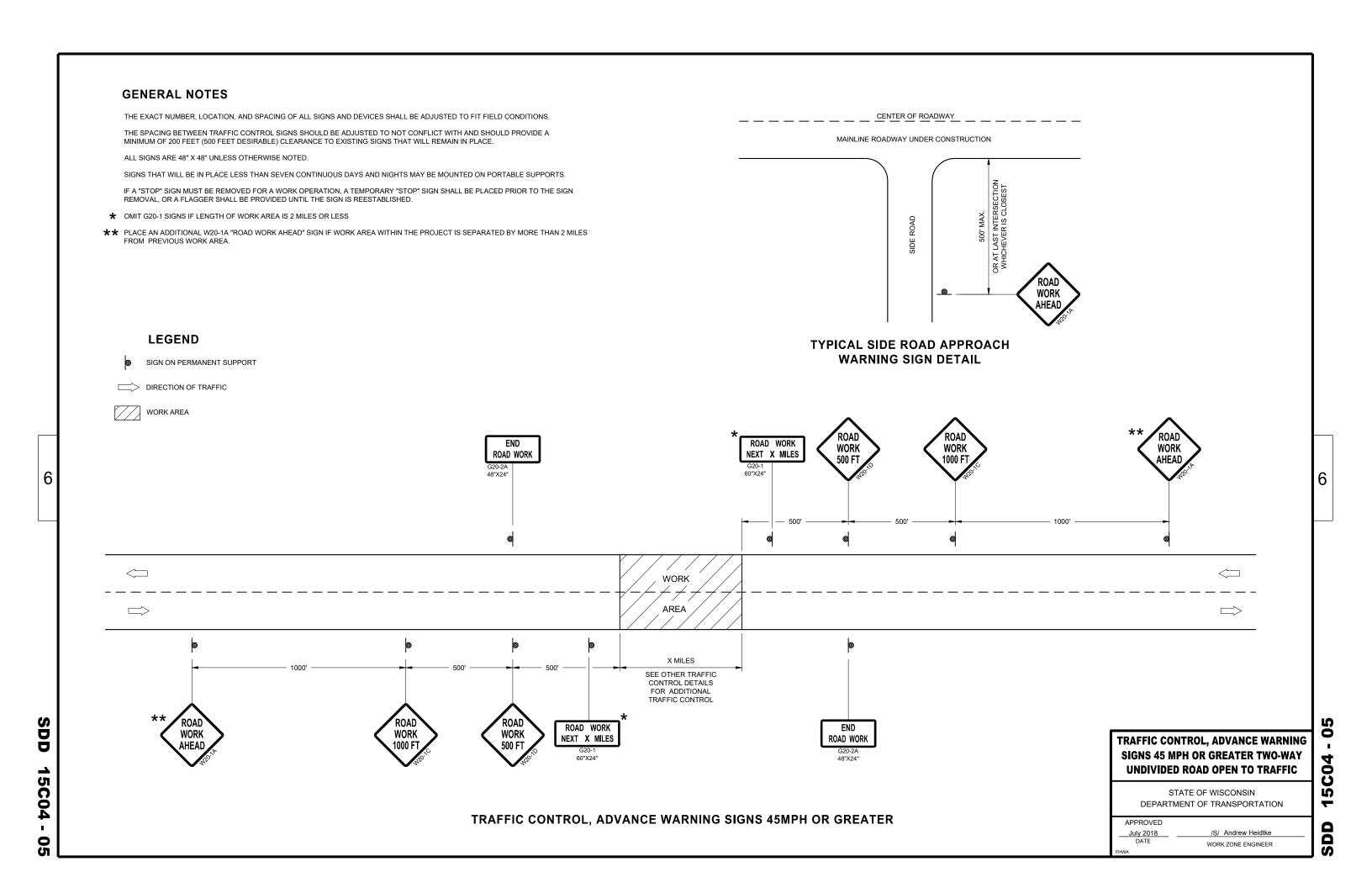
/S/ Andrew Heidtke
WORK ZONE ENGINEER

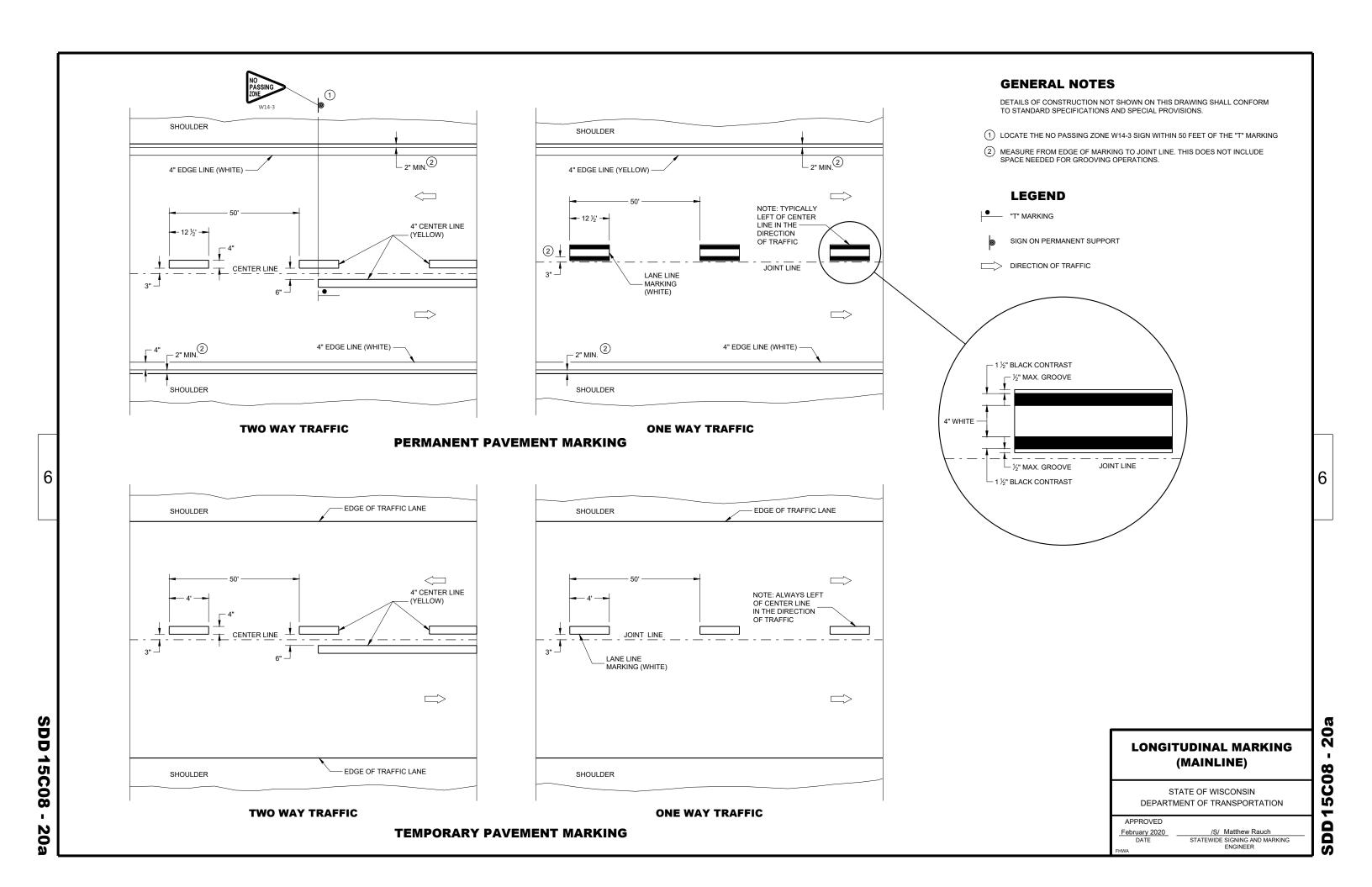
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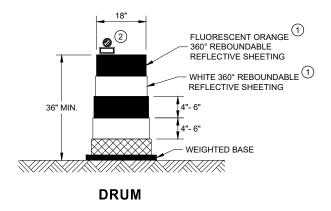
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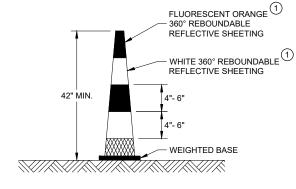




GENERAL NOTES

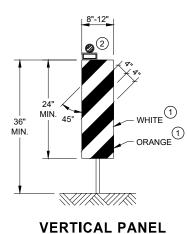
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



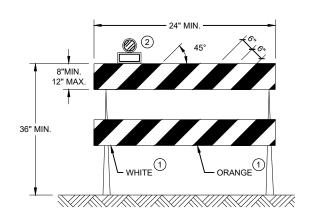


42" CONE DO NOT USE IN TAPERS

½ SPACING OF DRUMS

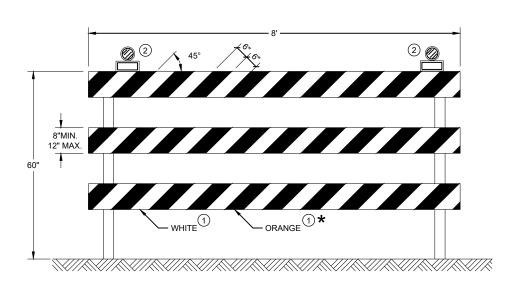


THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



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.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

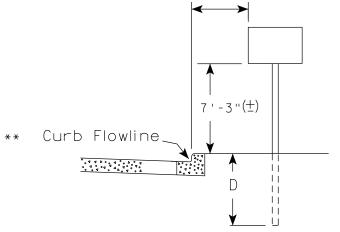
<u>60</u>

15C

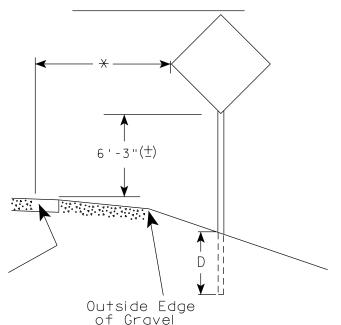
SDD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER

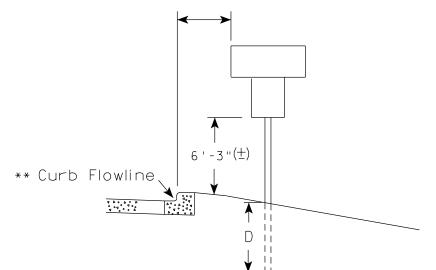


White Edgeline Location



2' Min - 4' Max (See Note 6)

HWY:



White Edgeline Location

** The existence of curb and gutter does not in

yeline
Outside Edge
of Gravel

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

* 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.

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 sign plate.

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

POST EMBEDMENT DEPTH

Area of Sign
Installation
(Sq.Ft.)

20 or Less

Greater than 20

Area of Sign
D
(Min)

5'

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

SHEET NO:

Ε

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A43.dgn

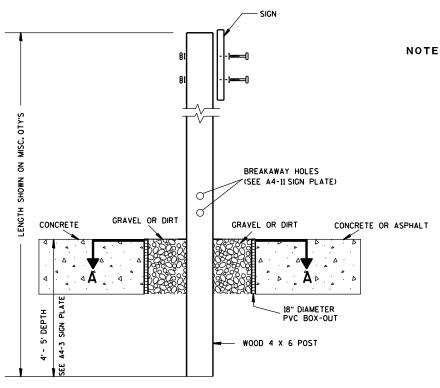
measured from the flow line.

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY: mscj9h

PLOT NAME :

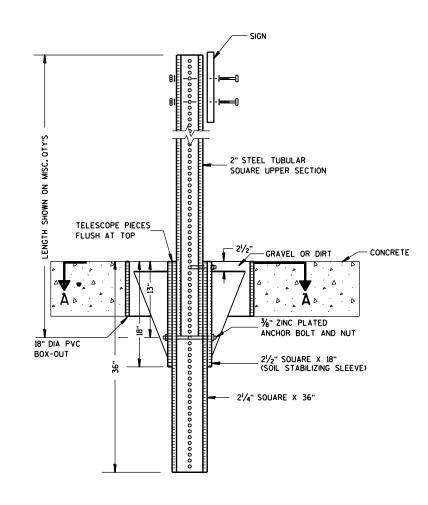
PLOT SCALE: \$\$.....plo†scale.....\$\$WISDOT/CADDS SHEET 42



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



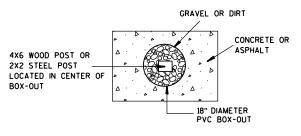
ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT

ELEVATION VIEW

DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE : 13.659812:1.000000

APPROVED

- 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" (±) or 6'-3" (±) 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.
- $\star\star\star$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

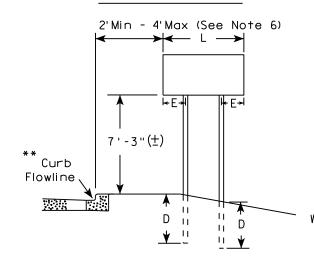
For State Traffic Engineer

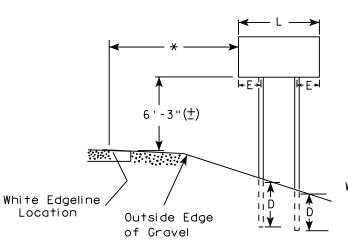
DATE 8/21/17 PLATE NO. 44-4.15

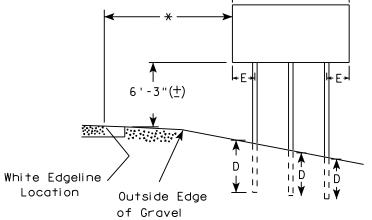
SHEET NO:

URBAN AREA

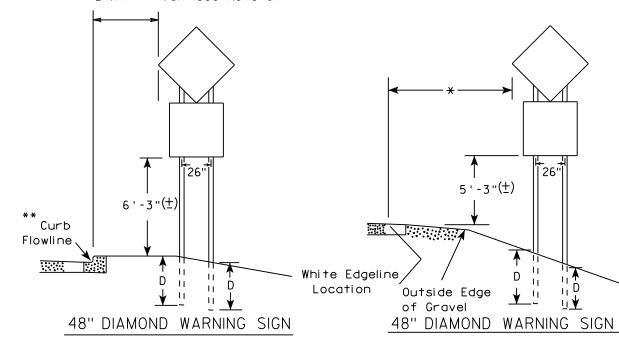
RURAL AREA (See Note 3)







2'Min - 4'Max (See Note 6)



	SIGN SHAPE OTHER THAN DIAMO (TWO POSTS REQUIRED)									
	L	E								
***	Greater than 48" Less than 60"	12"								
	60" to 108"	L/5								

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

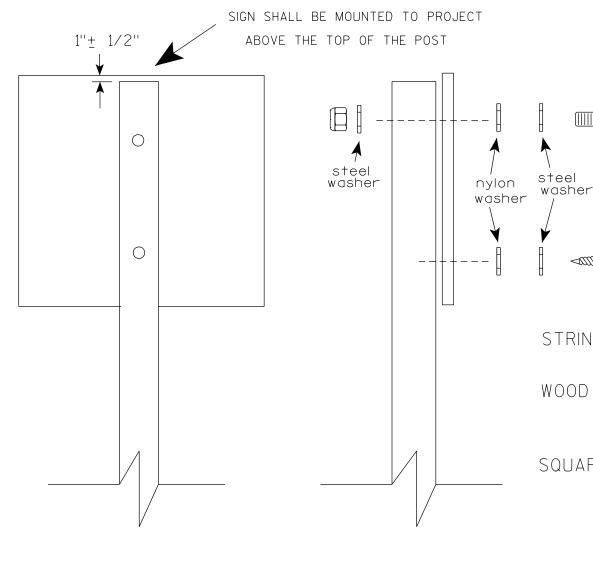
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



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.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 1/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .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, but normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

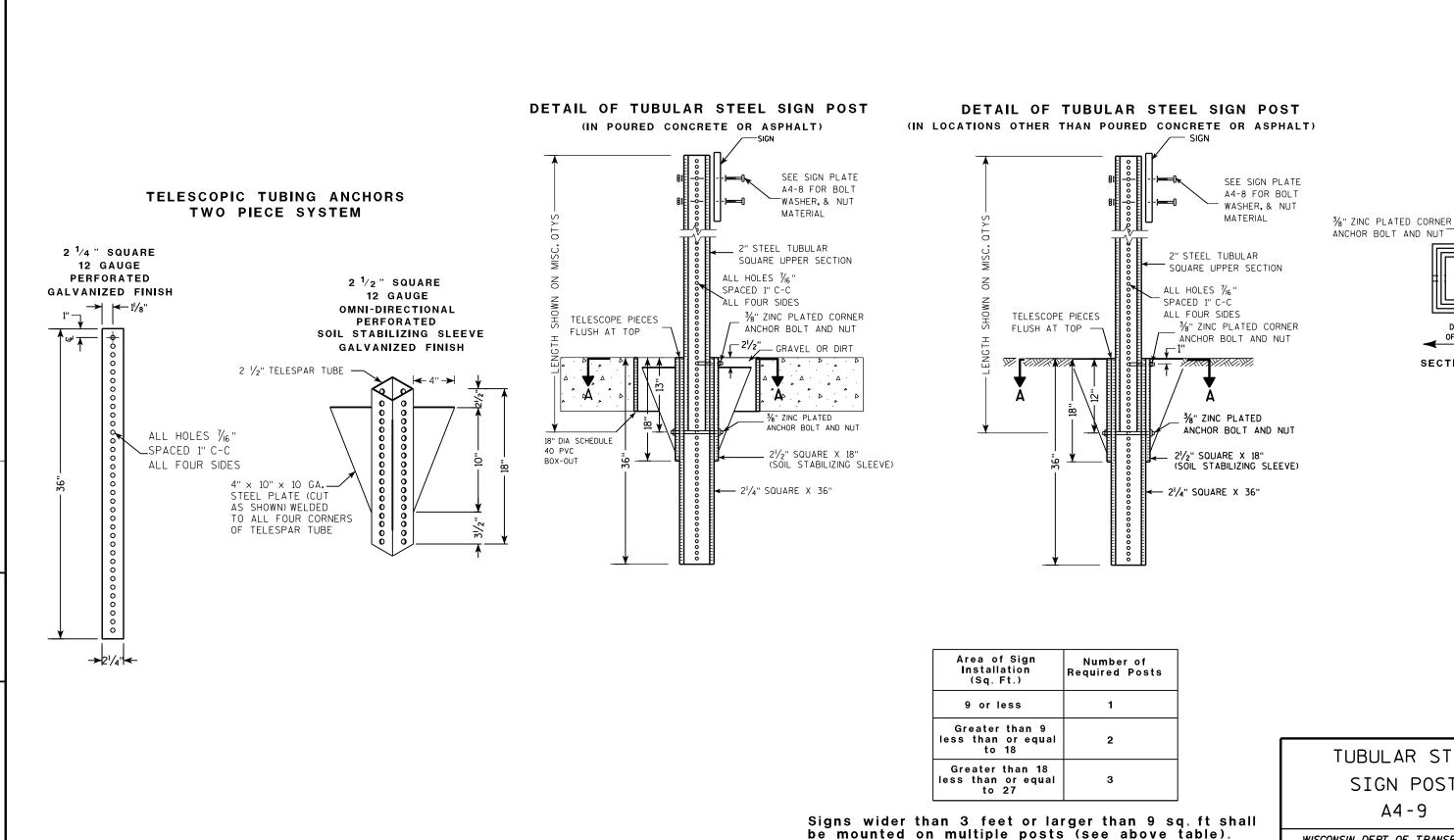
SHEET NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε

PROJECT NO:



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

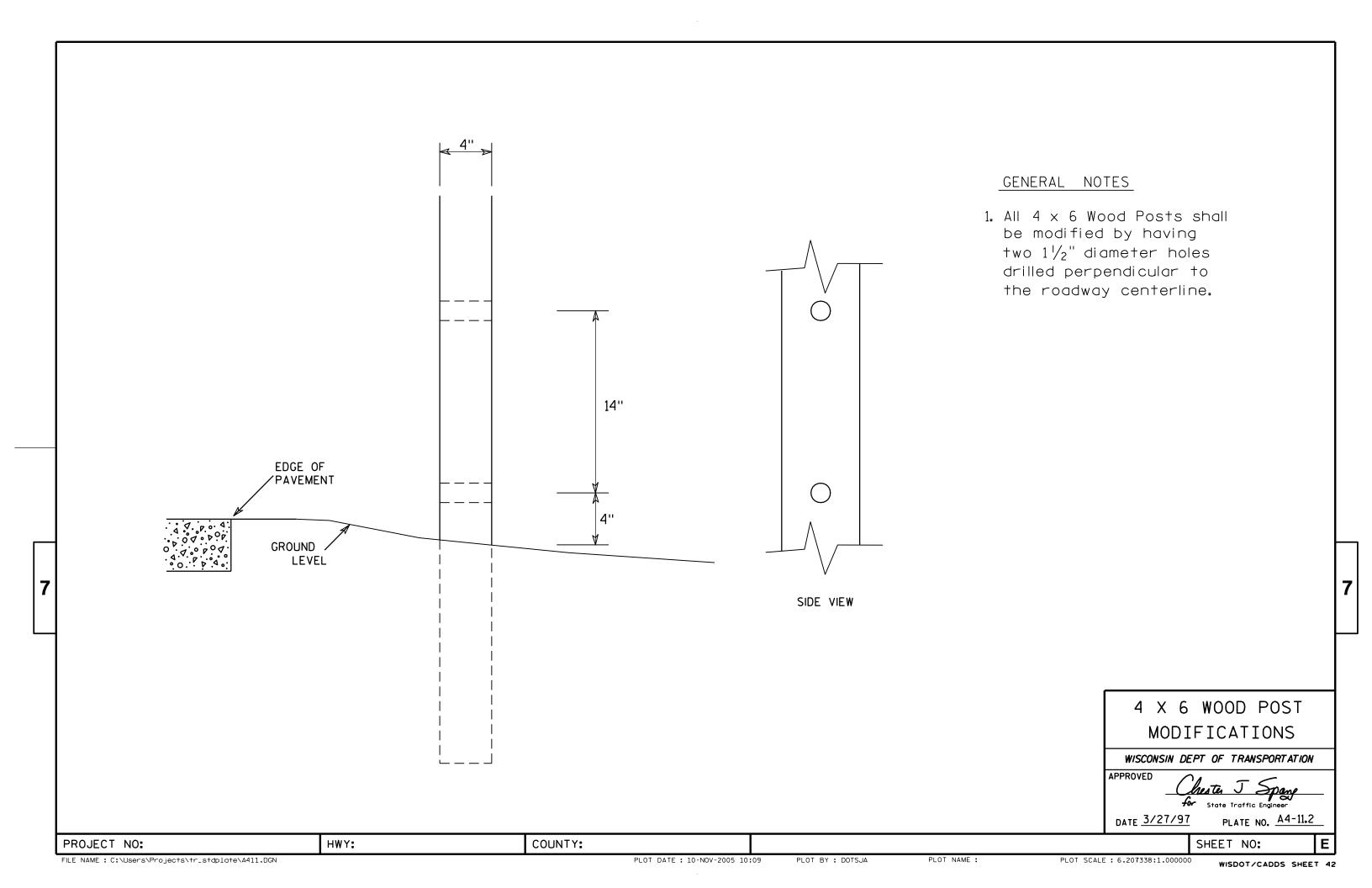
COUNTY:

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

SECTION A-A



SIGN LAYOUT WITH VARIOUS SIZED MESSAGES





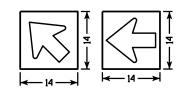




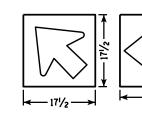










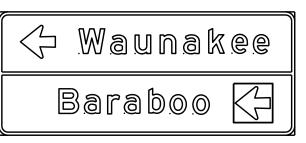


BEFORE

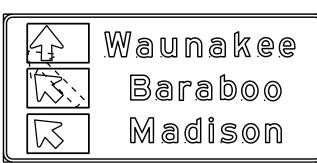


8 | 10"/6









GENERAL NOTES

- Materials shall conform to Standard Specification Section 637. Base - Sheet Aluminum 0.040" Thickness Sheeting - Orange Type F Reflective Arrow - Black Non-Reflective
- 2. Arrow signs shall be fastened to permanent sign by either aluminum rivets or aluminum self-tapping sheet metal screws.

 There shall be a minmum of 2 fasteners used per arrow sign.
- 3. There shall be a spacer consisting of a 0.08" nylon washer between the back of the arrow sign and the face of the permanent sign.
- 4. Arrows are per standard plate A1-2
- 5. Use separate arrow sign for each destination
- 6. Tilt arrow is always at 45 degrees
- 7. Arrow is centered on arrow sign

Lower Case Copy Size	Standard Width (Single Arrow)	Tilt Arrow	3 Line Tilt Arrow Cover Width	Hei ght
3¾" Series C	8	9 1/2	14 1/2	8
4½" Series D & E	9 1/2	10	15	9 ½
6" Series D & E	14	16	20 1/2	14
8" Series E	17 1/2	20 1/2	25	17 1/2

DESTINATION DIRECTIONAL ARROW

FOR DETOUR SIGNS

WISCONSIN DEPT OF TRANSPORTATION

Matther

For State To

DATE 10/08/14

For State Traffic Engineer PLATE NO. <u>A4-12.2</u>

SHEET NO:

......

PROJECT NO:

PLOT DATE: 08-0CT-2014 11:50

WISDOT/CADDS SHEET 42

NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series Line 1 is D and Line 2 is C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

—————————————————————————————————————		-I
	NEXT O MILES	→ F → G
		<i></i>

SIZE	Α	В	C	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 %															10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10
5																											

COUNTY:

STANDARD SIGN G20-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE <u>3/14/</u>17

PLATE NO. <u>G20-51.2</u>

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G2051.DGN

PROJECT NO:

HWY:

PLOT DATE: 14-MAR-2017 13:33

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE : 6.904489:1.000000

WISDOT/CADDS SHEET 42

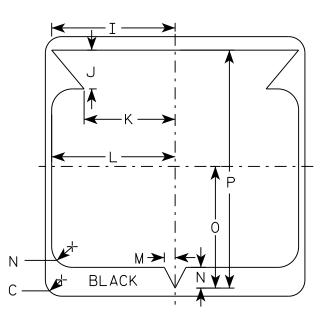
NOTES

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message – Black

- 3. Message Series D except 3 number signs Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

	G F A H H H
▲ M1 - 6	



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																										1	
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 1/8	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

₹or State Traffic Engineer PLATE NO. M1-6.10

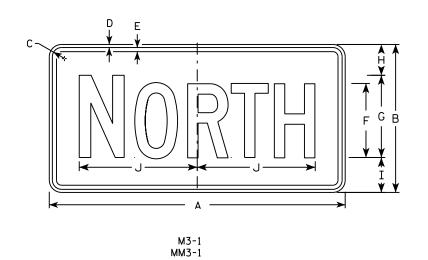
DATE 3/16/18

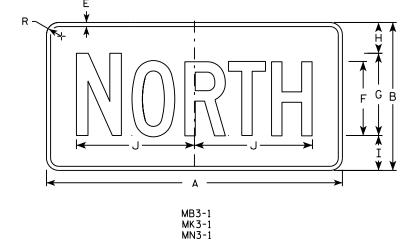
PLOT SCALE : 6.655277:1.000000

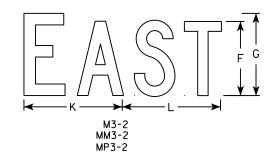
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HWY:

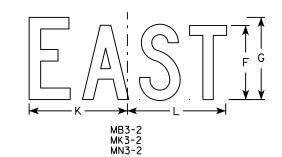
PROJECT NO:

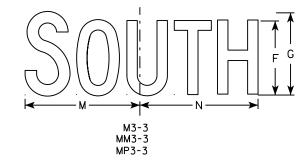


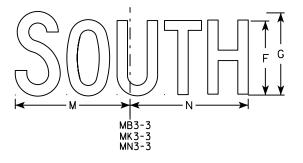


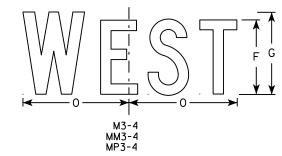


MP3-1

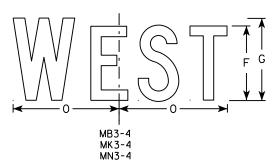








HWY:



NOTES

- 1. All Signs Type II Type H
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

5. M3-1 thru M3-4 Background - White Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Υ	Z	Area sq. ft.
1 1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

PROVED Matthe & Rame

DATE 10/15/15 PLATE NO. M3-1.14

SHEET NO:

Ε

PROJECT NO:

FILE NAME · C·\CAFfiles\Projects\tr stdplate\M31 DGN

PLOT DATE . 01-DEC-2015 17:54

PLOT RY . \$\$ plotuser \$\$ PLOT NAMF :

PLOT SCALE . 11 675051.1 000000

NOTES

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

Background - Orange Message - Black

- 3. Message Series B
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

$C \xrightarrow{D} E \\ \downarrow \\ \downarrow \\ \uparrow$	★ G	
	F - * G *	

С E F G H I J S Х Z D 0 10 10 1/4 1 1/8 3/8 3/8 24 2.0 3 36 1 1/8 3/8 1/2 4 1/2 14 5/8 14 1/2 4.5 4 5

COUNTY:

STANDARD SIGN M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 11/10/10 PLATE NO. M4-8.2

SHEET NO:

PLOT DATE: 10-NOV-2010 13:18

PLOT NAME :

PLOT BY : ditjph

PLOT SCALE: 4.767233:1.000000

WISDOT/CADDS SHEET 42

PROJECT NO:

HWY:

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

2. Color:

Background - Orange Message - Black

- 3. Message Series B
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

 $D \longrightarrow$ Н M4-8A

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	Т	U	٧	w	Х	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5	·																										

COUNTY:

STANDARD SIGN M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther For State Traffic Engineer

PLATE NO. M4-8A.2 DATE 3/9/11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48A.DGN

HWY:

PROJECT NO:

PLOT DATE: 09-MAR-2011 10:29

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 3.972696:1.000000

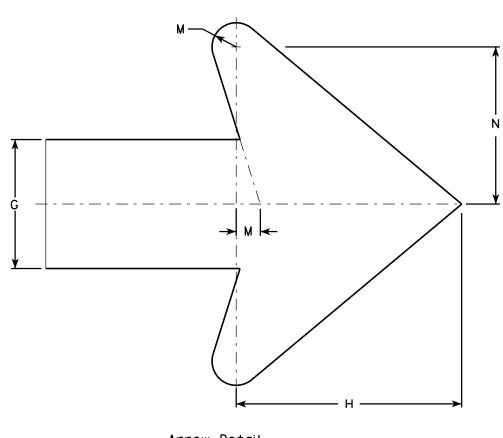
WISDOT/CADDS SHEET 42

NOTES

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

Background - Orange Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

PLOT NAME :

Α	В	С	D	E	F	G	н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	w	X	Y	Z	Area sq. ft.
30	24	1 1/8	3⁄8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 %													5.00
30	24	1 1/8	3⁄8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 %													5.00
48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 %	20 %	20 1/2	13 1/4	1 1/8	6 %													12.0
48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 %	20 1/2	13 1/4	1 1/8	6 %													12.0
	30 48	30 24 48 36	30 24 1 ½ 48 36 1 ¾	30 24 1 ½ ¾ 30 24 1 ½ ¾ 48 36 1 ¾ ½	30 24 1 ½ ¾ ½ 30 24 1 ⅓ ¾ ½ 48 36 1 ¾ ½ ¾	30 24 1 ½ 3½ ½ 5 30 24 1 ⅓ 3½ ½ 5 48 36 1 ⅓ ½ 5% 8	30 24 1 ½ 3/8 ½ 5 4 30 24 1 ½ 3/8 ½ 5 4 48 36 1 3/8 ½ 5/8 8 6	30 24 1 ½8 ¾8 ½ 5 4 7 30 24 1 ⅓8 ¾8 ½ 5 4 7 48 36 1 ¾8 ½ 5 8 6 10 ½	30 24 1 ½ 3/8 ½ 5 4 7 8 30 24 1 ½ 3/8 ½ 5 4 7 8 30 24 1 ½ 3/8 ½ 5 4 7 8 48 36 1 3/8 ½ 5/8 8 6 10 ½ 11 5/8	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 48 36 1 3/8 ½ 5/8 8 6 10 ½ 11 5/8 20 5/8	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 48 36 1 3/8 ½ 5/8 8 6 10 ½ 11 5/8 20 5/8 20 ½	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 12 9 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 12 9 48 36 1 3/8 ½ 5/8 8 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 48 36 1 3/8 ½ 5/8 8 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ½	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 8 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 8 4 ⅓ 36 1 3/8 ½ 5/8 8 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 6 ⅓ 8	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 4 ⅓ 4 ⅓ 4 3/8 11 ⅓ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ⅓ 4 ⅓ 4 ⅓ 48 36 1 3/8 ½ 5/8 8 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 6 ⅓ 8	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 4 ⅓ 4 ⅓ 4 ⅓ 6 ⅓ 8 136 1 ¾ 1/2 5/8 8 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 6 ⅓ 8	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 4 ½ 4 ½ 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 4 ½ 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 4 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 5 4 7 8 11 ½ 12 9 3/4 4 ½ 5 5 6 ½ 5 6 10 ½ 11 ½ 20 5/8 20 ½ 13 ¼ 1 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½ 6 ½	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 8 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 8 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 8 48 36 1 3/8 ½ 5/8 8 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 6 ⅓ 8	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 4 ⅓ 8 36 1 ⅓ ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ⅓ 8 4 ⅓ 8 4 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ⅓ 8 4 ⅓ 8 4 1 1 ½ 12 9 3/4 4 ⅓ 8 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ⅓ 8 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 8 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 8 36 1 3/8 ½ 5/8 8 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 6 ⅓ 8	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 3 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 4 ⅓ 8 4 1 ½ 12 9 ¾ 4 4 ⅓ 8 4 1 ½ 12 9 ¾ 4 4 ⅓ 8 4 1 ½ 12 9 ¾ 4 4 ⅓ 8 4 1 ½ 12 9 ¾ 4 4 ⅓ 8 4 1 ½ 12 9 12 9 ¾ 4 4 ⅓ 8 4 1 ½ 12 9 12 9 ¾ 4 4 ⅓ 8 4 1 ½ 12 9 12 9 13 ½ 12 9	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 3 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 6 ¾ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 6 ¾ 6 ¼ 6 ¼ 6 ¼ 6 ¼ 6 ¼ 6 ¼ 6 ¼ 6 ¼ 6 ¼	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 8 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 6 30 24 1 ⅓ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 6 48 36 1 ¾ ½ 5/8 8 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 6 ⅓ 8	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ⅓ 8 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 8 5 11 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 5 4 7 8 11 ½ 12 9 3/4 4 ⅓ 8 5 6 10 ½ 11 ⅓ 20 ⅓ 20 ⅓ 20 ½ 13 ¼ 1 ⅓ 6 ⅙ 8 5 € 10 ½ 11 ⅙ 6 ⅙ 8 € 10 ½ 11 ⅙ 6 ⅙ 8 € 10 ⅙ 6 ⅙ 8 € 10 ½ 11 ⅙ 6 ⅙ 8 € 10 ⅙ 6 ⅙ 8 € 10 ⅙ 6 ⅙ 8 € 10 ⅙ 6 ⅙ 8 € 10 ⅙ 6 ⅙ 6 ⅙ 6 ⅙ 6 ⅙ 6 ⅙ 6 ⅙ 6 ⅙ 6 ⅙ 6 ⅙	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 5 4 7 8 11 ½ 12 9 ¾ 4 ⅓ 5 5 4 7 8 11 ½ 12 9 ¾ 4 ¼ 8 5 6 ¼ 8 5 6 10 ½ 11 ½ 20 ½ 13 ¼ 1 ⅓ 6 ⅓ 8 5 € 10 ½ 11 ⅓ 8 0 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 12 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ⅓ 8 6 ⅓ 8 5 € 10 ½ 12 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 11 5/8 20 5/8 20 ½ 13 ½ 13 ½ 13 ½ 13 ½ 13 ½ 13 ½ 13 ½ 1	30 24 1 ½ 3/8 ½ 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 5 5 4 7 8 11 ½ 12 9 ¾ 4 ½ 6 ¾ 5 6 ¾ 6 10 ½ 11 5/8 20 5/8 20 ½ 13 ¼ 1 ½ 6 ¾ 8 6 ¾ 8 6 №

COUNTY:

M4-9R

M4-9 R & L

STANDARD SIGN

WISCONSIN DEPT OF TRANSPORTATION APPROVED

Matthew R *for* State Traffic Engineer PLATE NO. M4-9R.4

DATE 3/9/11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M49R.DGN

HWY:

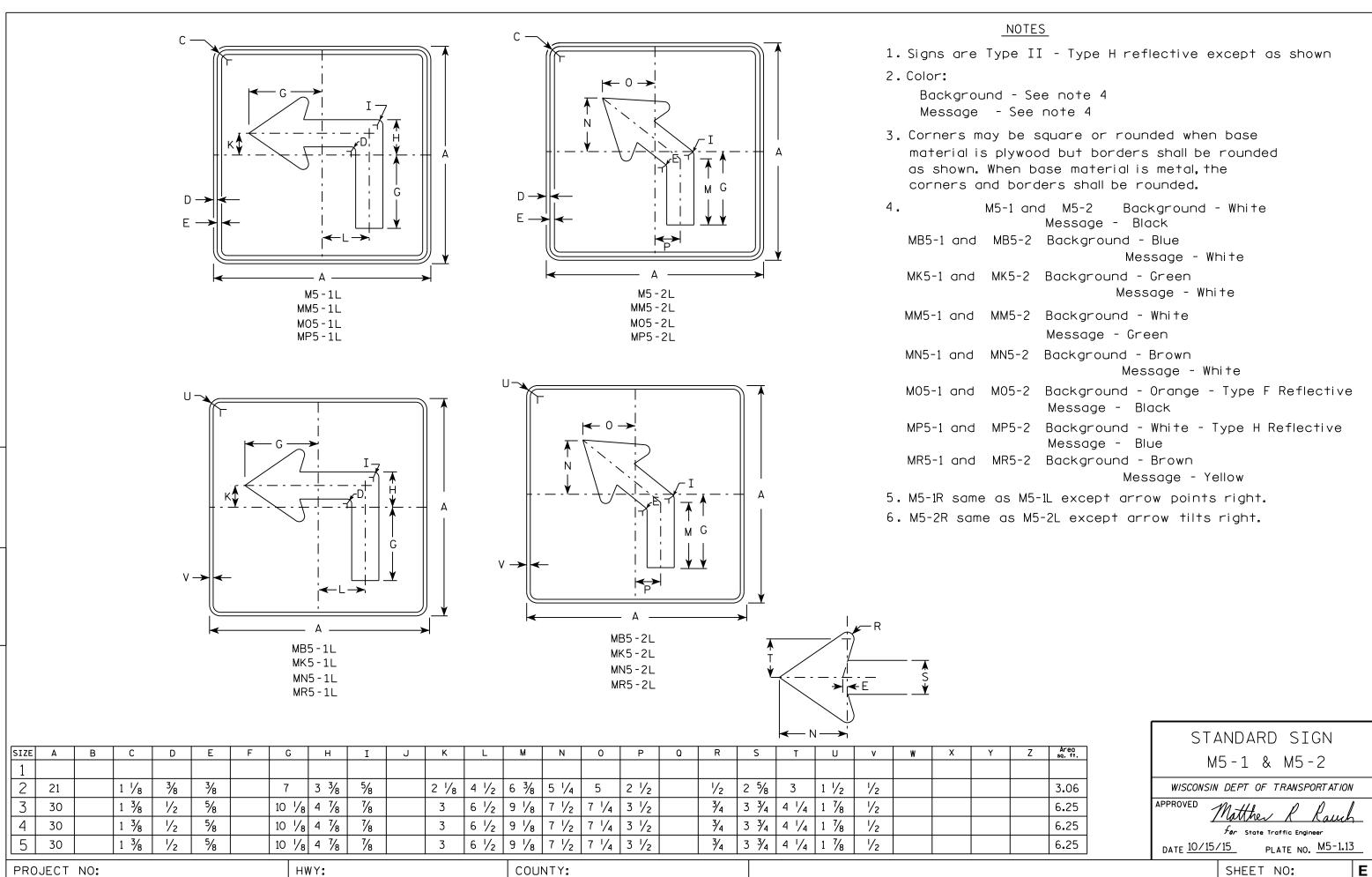
PROJECT NO:

PLOT DATE: 09-MAR-2011 11:17

PLOT BY: mscj9h

PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42



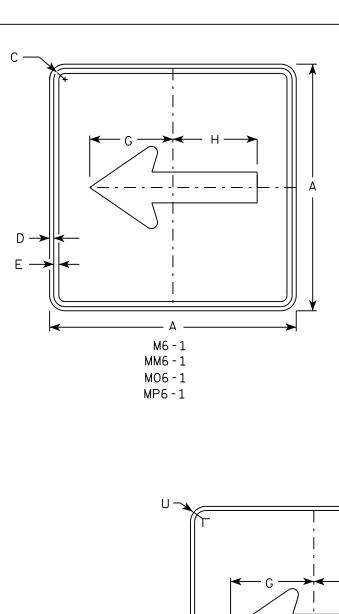
FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

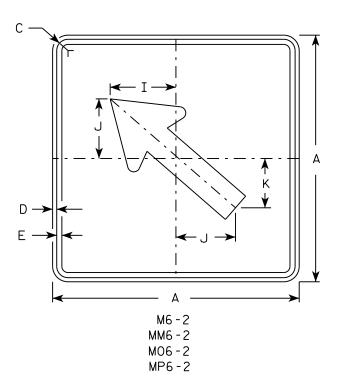
PLOT DATE . 01-DEC-2015 18:07

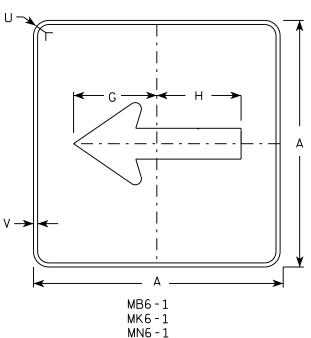
PINT RY . \$\$ DIOTUSET \$\$ PINT NAMF :

PLOT SCALE . 11 675051.1 000000

311LL 1 110.

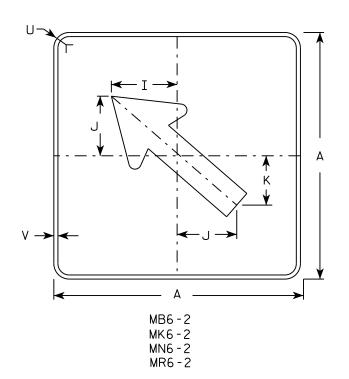






MR6-1

HWY:



NOTES

- 1. Signs are Type II Type H except as Shown
- 2. Color:

Background - See note 4 Message - See note 4

- 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. M6-1 and M6-2 Background White

Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

M06-1 and M06-2 Background - Orange - Type F Reflective

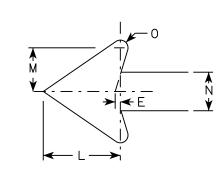
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 %	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 10/15/15

PLATE NO. M6-1.15 Ε

FILE NAME . C.\CAFfiles\Projects\tr stdblote\M61 DGN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:57

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000



- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.

R11-3B

** See Note 5

D ➤

E→

I —														,								,	,				
SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1 1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4	7 1/8			4.5
25	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 ½	11	11 1/8			12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 %	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 1/8			12.5
3																											
4																											
5				·																							

COUNTY:

STANDARD SIGN R11-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rawh DATE 3/21/17 PLATE NO. R11-3B.3

SHEET NO:

PLOT SCALE: 6.896672:1.000000

HWY:

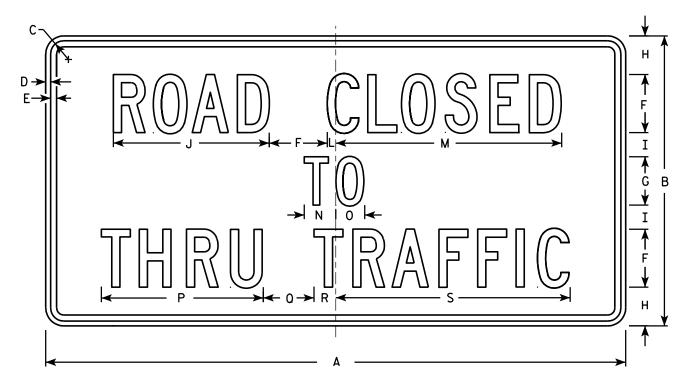
PROJECT NO:

NOTES

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

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R11-4

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	V	W	X	Y	Z	Areg sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7 ⁄8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7∕8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											
PRO	JECT	NO:					Н\	WY:					COU	NTY:													

STANDARD SIGN R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-4.3

SHEET NO:

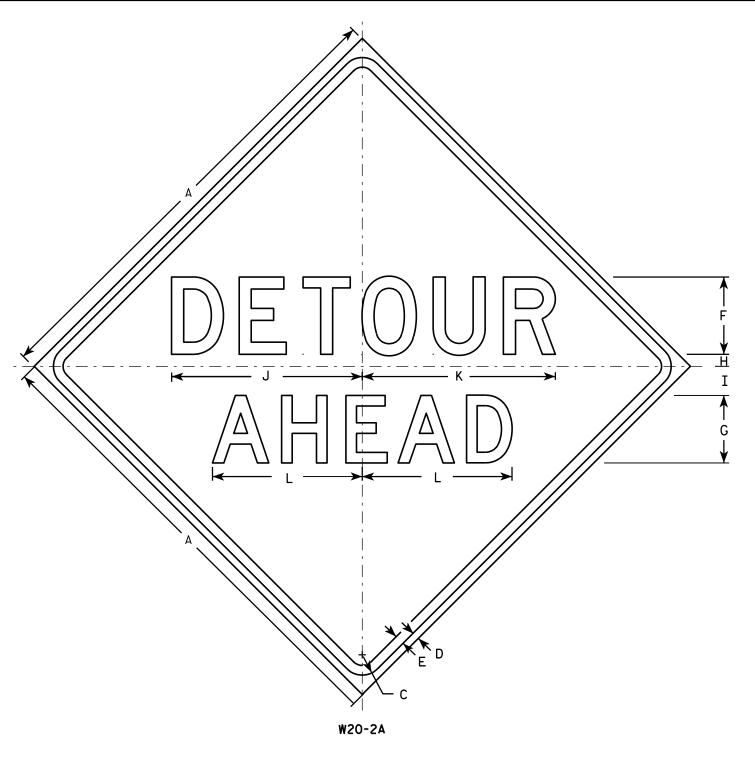
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R114.DGN

PLOT DATE : 01-APR-2011 14:11

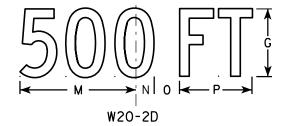
PLOT BY: mscj9h

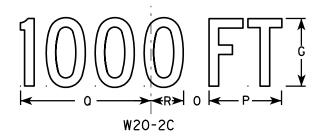
PLOT NAME :

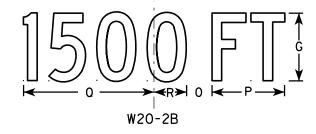
PLOT SCALE: 9.931739:1.000000

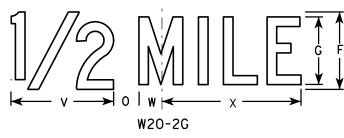


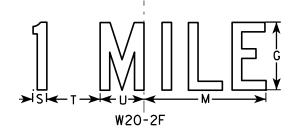
HWY:











<u>NOTES</u>

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

Background - Orange Message - Black

- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Line 1 is Series D.
 Line 2 is Series D for AHEAD and
 Series C for all other distances.

SIZE	Α		В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	36	6		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 1/8	5 %	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48	8		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
2M	48	8		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 %	2 3/8	14 3/8			16.0
3	48	8		2 1/4	¾	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 %	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
4	48	8		2 1/4	3∕4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 %	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
5	48	8		2 1/4	₹4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 %	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0

COUNTY:

STANDARD SIGN W20-2A,B,C,D,F & G

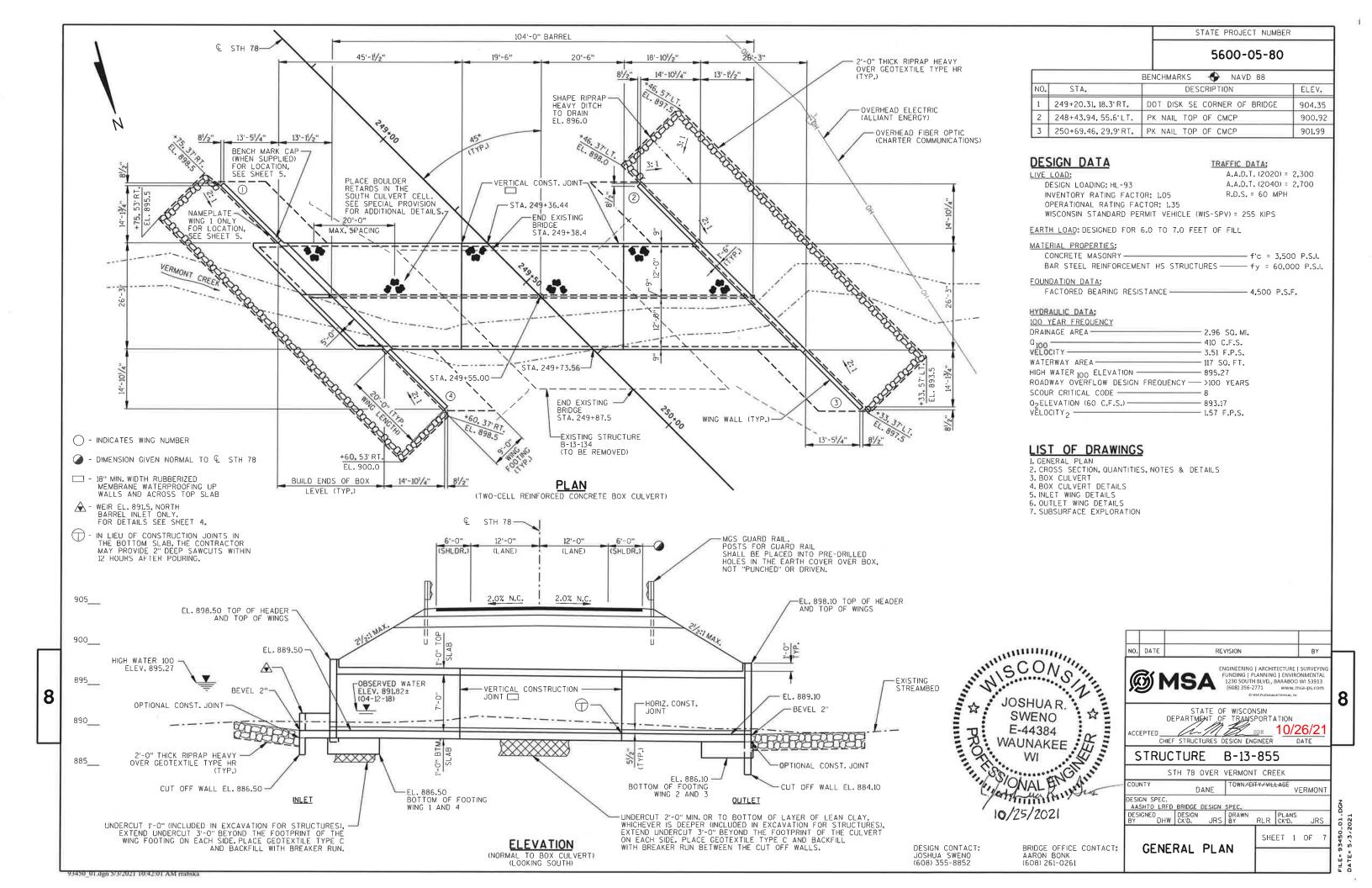
WISCONSIN DEPT OF TRANSPORTATION

DATE 3/18/11 PLATE NO. W20-2.6

SHEET NO:

PROJECT NO:

PLOT NAME :

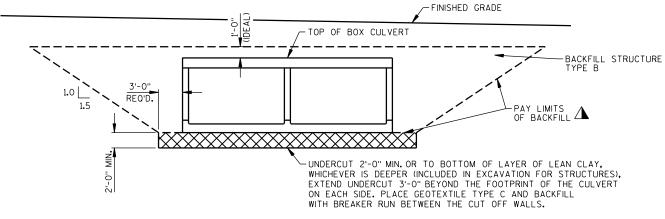


TOTAL ESTIMATED QUANTITIES

PREFORMED FILLER

 Δ

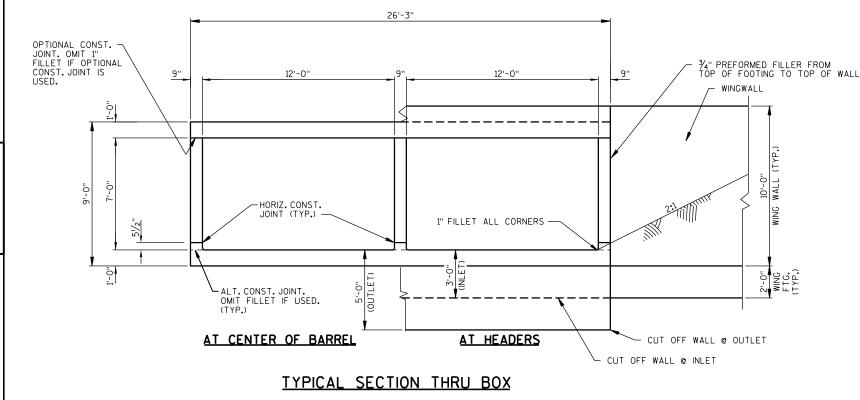
ITEM NUMBER	BID ITEM	UNIT	TOTAL
203.0260.01	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS B-13-134	EACH	1
206.2000.01	EXCAVATION FOR STRUCTURES CULVERTS B-13-855	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	2520
311.0110	BREAKER RUN	TON	540
504.0100	CONCRETE MASONRY CULVERTS	CY	374
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	42,160
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2,860
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	21
606.0300	RIPRAP HEAVY	CY	240
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	200
645.0105	GEOTEXTILE TYPE C	SY	535
645.0120	GEOTEXTILE TYPE HR	SY	455
SPV.0060.02	BOULDER RETARDS	EACH	18
	NON-BID ITEMS		



SIZE

3/1"

BOX BACKFILL STRUCTURE DETAIL



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

5600-05-80

STATE PROJECT NUMBER

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

THE FIRST DIGIT OF A THREE DIGIT BAR MARK AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFY THE BAR SIZE.

CONCRETE CUT OFF WALLS AND WING FOOTINGS SHALL BE POURED SEPARATELY.

THE CONCRETE IN THE CUT OFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THIS STRUCTURE WILL REPLACE THE EXISTING STRUCTURE, B-13-134, A 49.1'LONG, SINGLE SPAN, STEEL DECK GIRDER BRIDGE WITH A 34.0'CLEAR WIDTH.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS B-13-855" SHALL BE THE EXISTING GROUND LINE.

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

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS IN CHAPTER 36 STANDARDS OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL, PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES". ALL PRECAST BOX SECTIONS SHALL BE PLACED ON A BEDDING OF

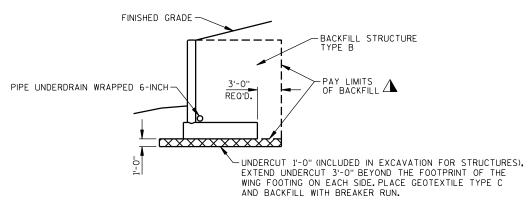
⚠ - BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM, THE CONTRACTOR MAY ELECT TO SUBSTITUTE #10R #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER, THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL"

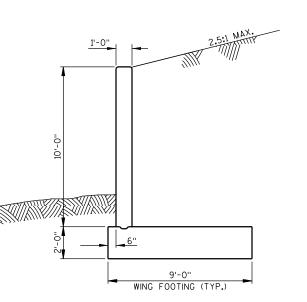
⊕ - DURING SUBSTRUCTURE REMOVAL, REMOVE ALL ABUTMENT AND FOOTING CONCRETE THAT IS IN CONFLICT WITH THE PROPOSED BOX OR THE BOX CULVERT UNDERCUT LIMITS.

A TEMPORARY WATER DIVERSION SHALL BE PROVIDED DURING CONSTRUCTION OF THE NEW CULVERT, THE TEMPORARY WATER DIVERSION BID ITEM IS DETAILED IN THE SPECIAL PROVISIONS AND PROVIDED IN THE ROADWAY QUANTITIES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2012 ADJUSTED). BENCHMARKS WERE LOCATED IN THE FIELD USING GPS TECHNOLOGY.



WING BACKFILL STRUCTURE DETAIL

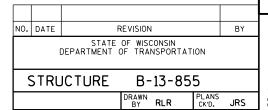


PROFILE GRADE LINE - STH 78

CROSS SECTION,

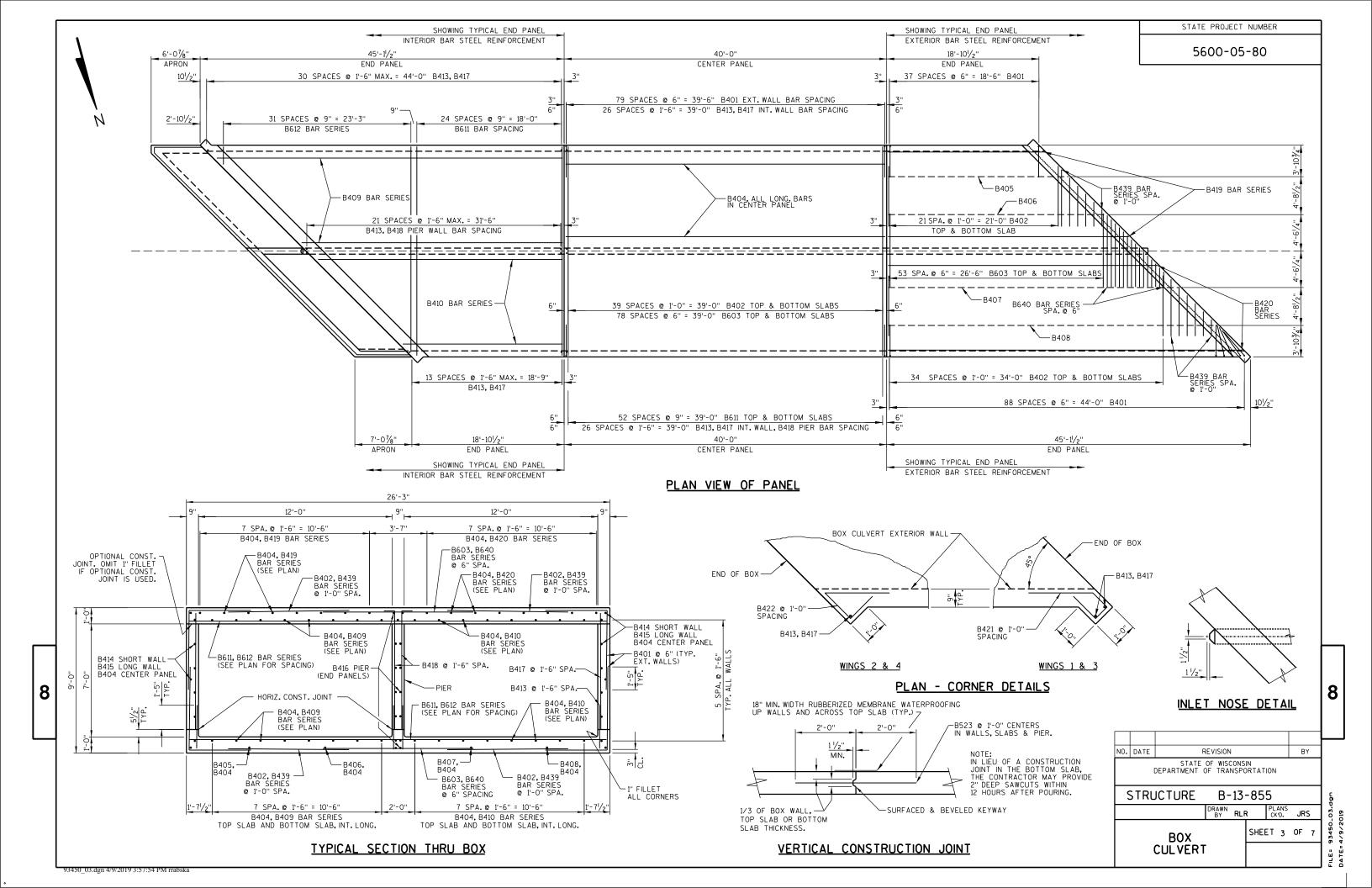
QUANTITIES, NOTES

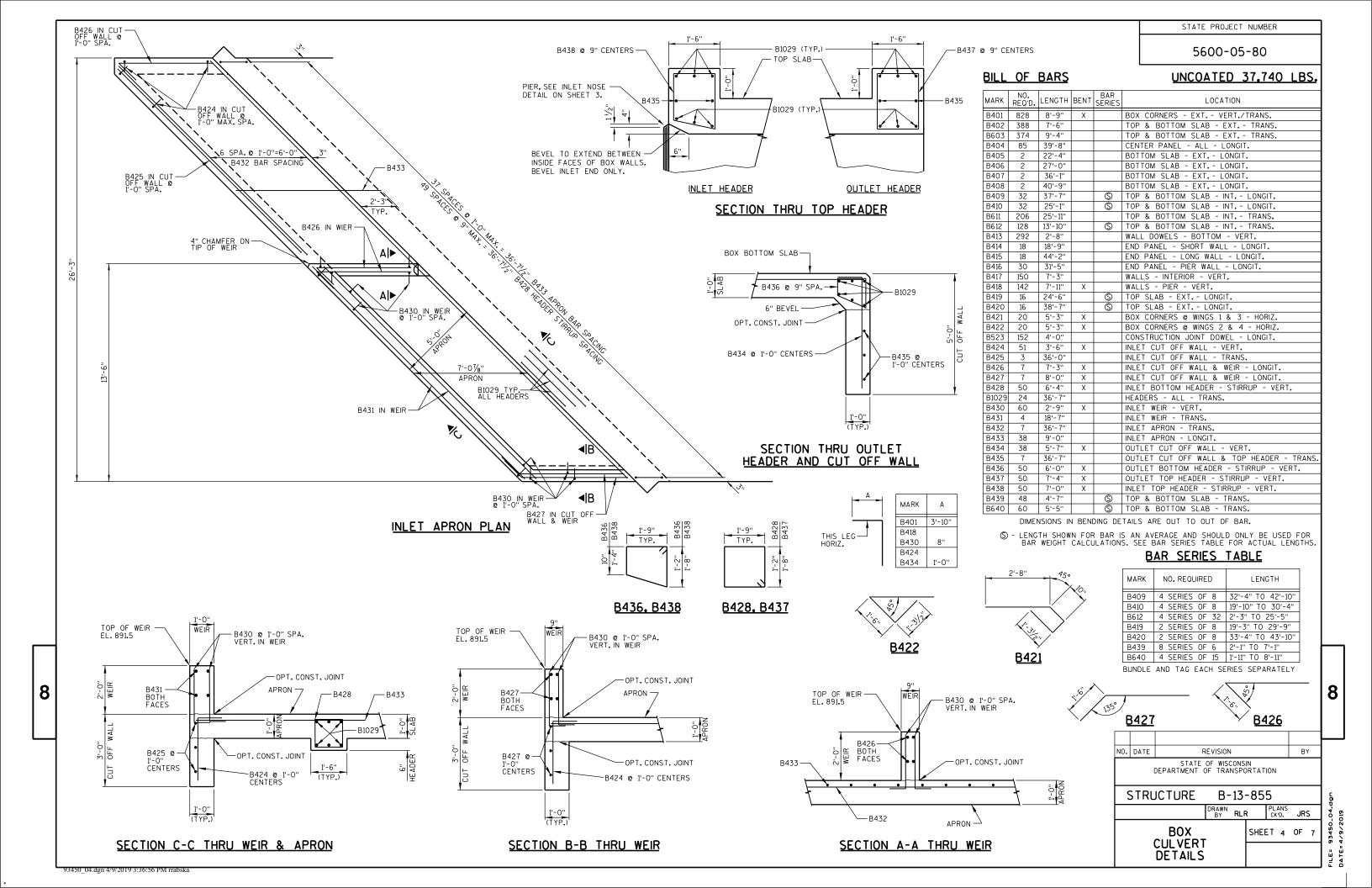
& DETAILS

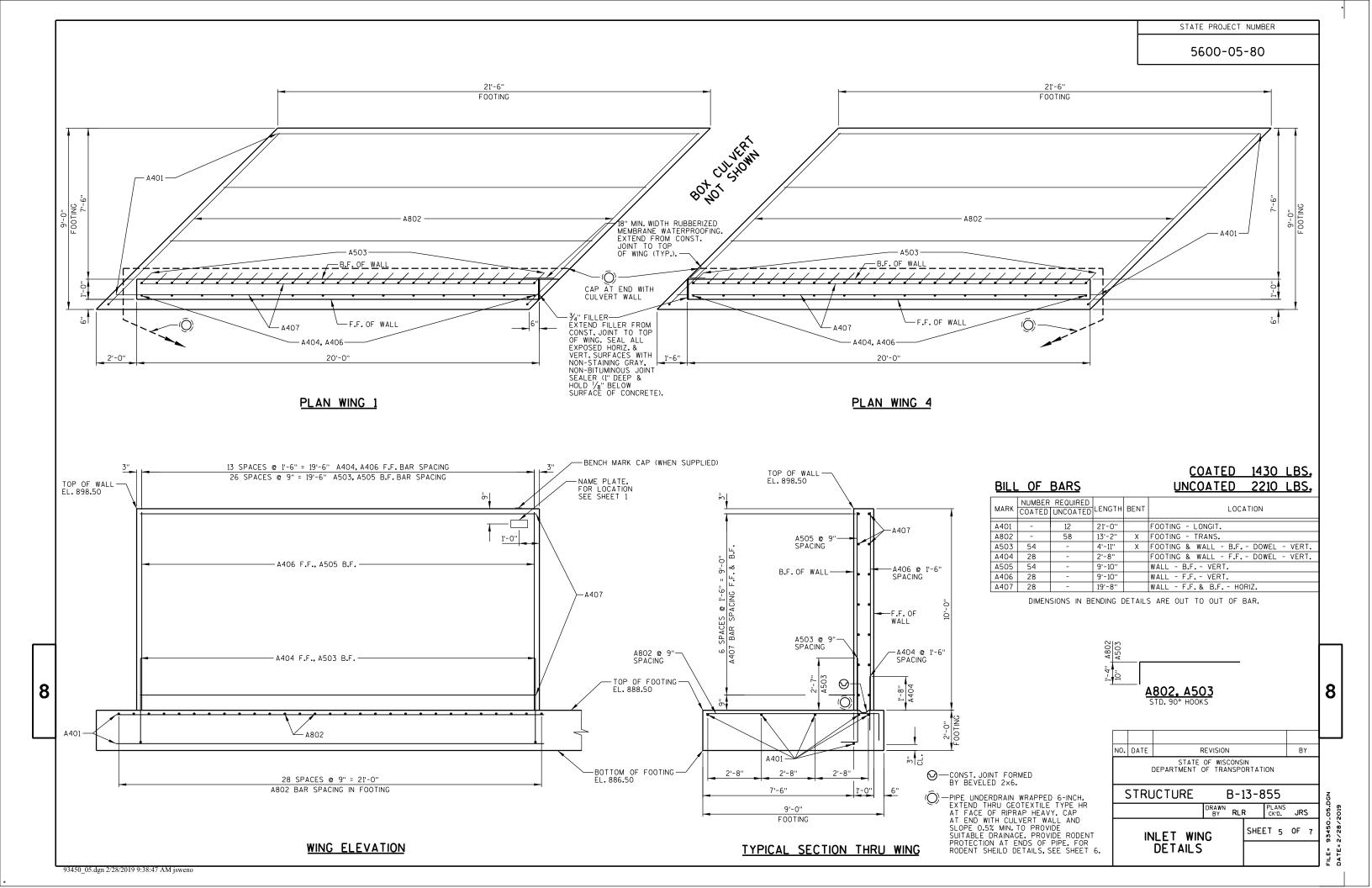


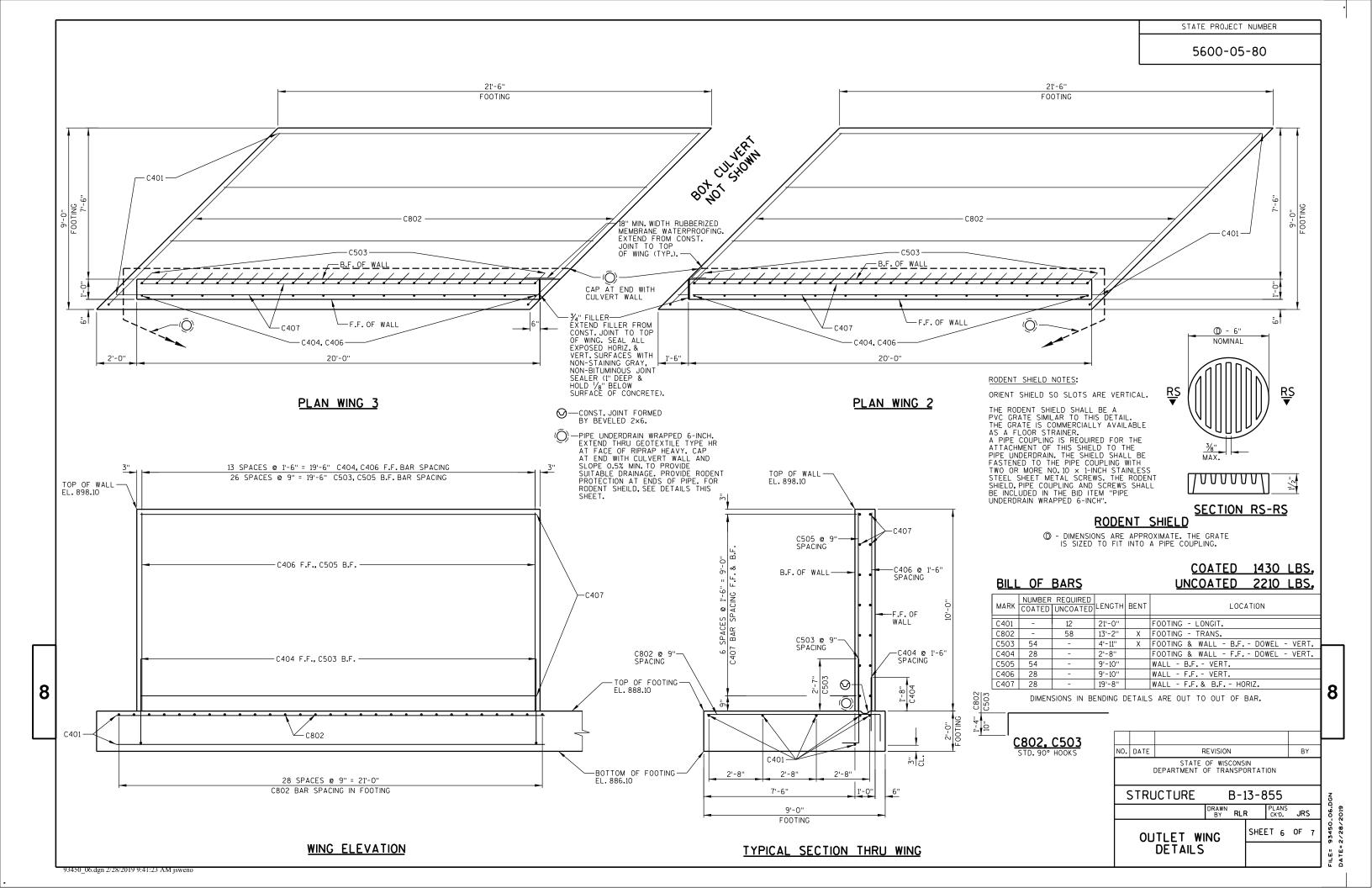
TYPICAL SECTION THRU WING

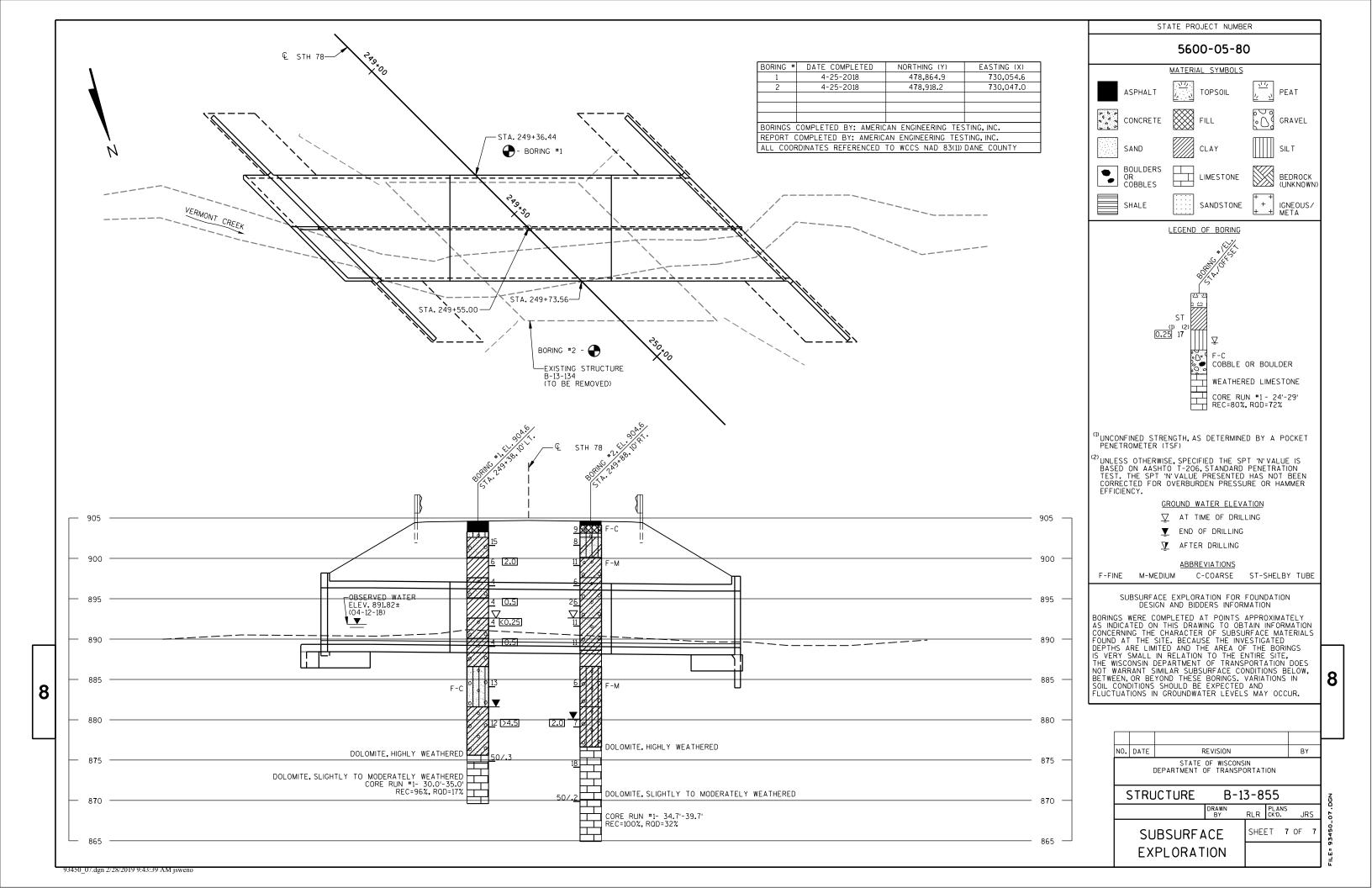
SHEET 2 OF











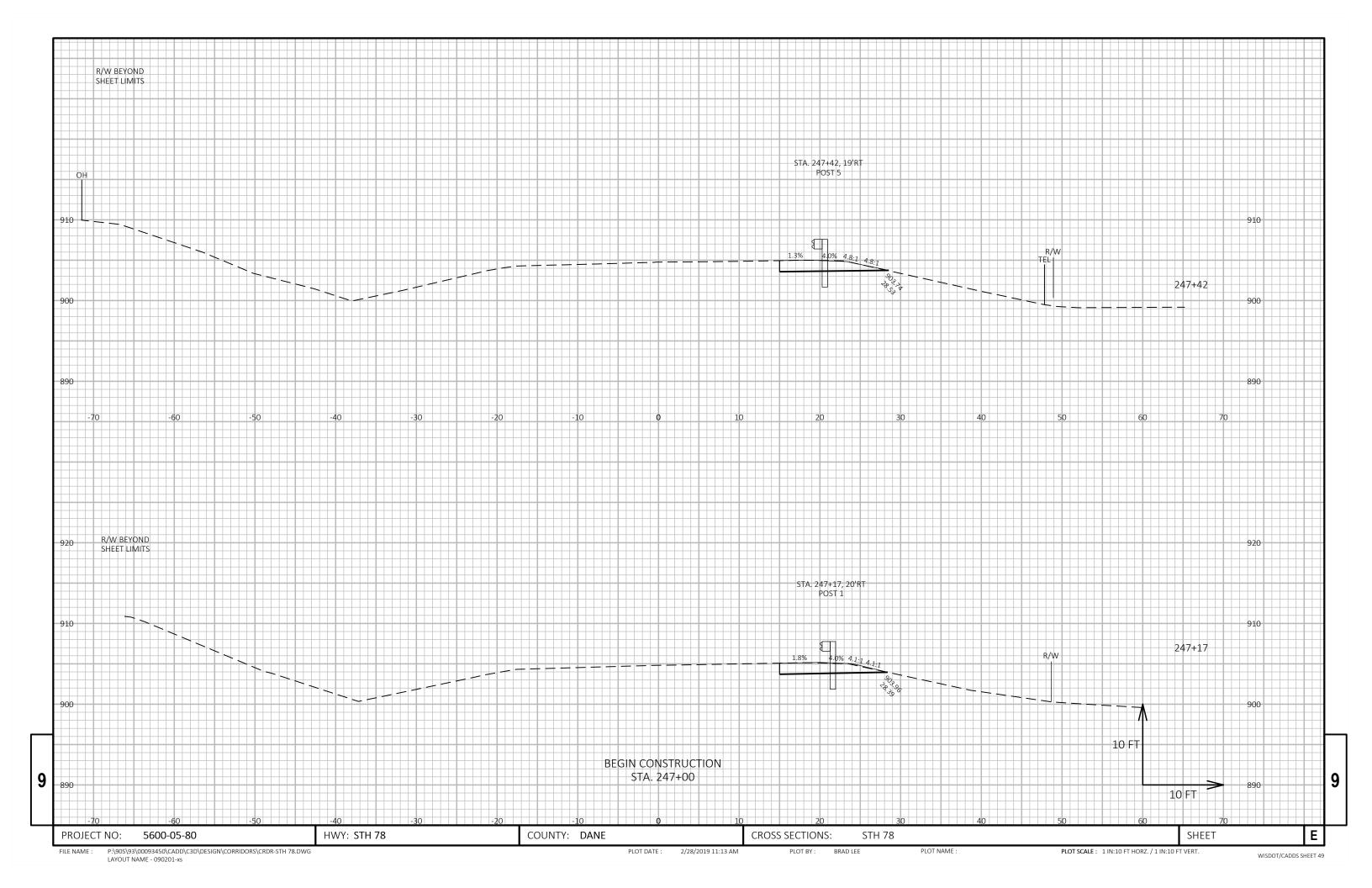
PROJECT I.D. 5600-05-80 EARTHWORK SUMMARY

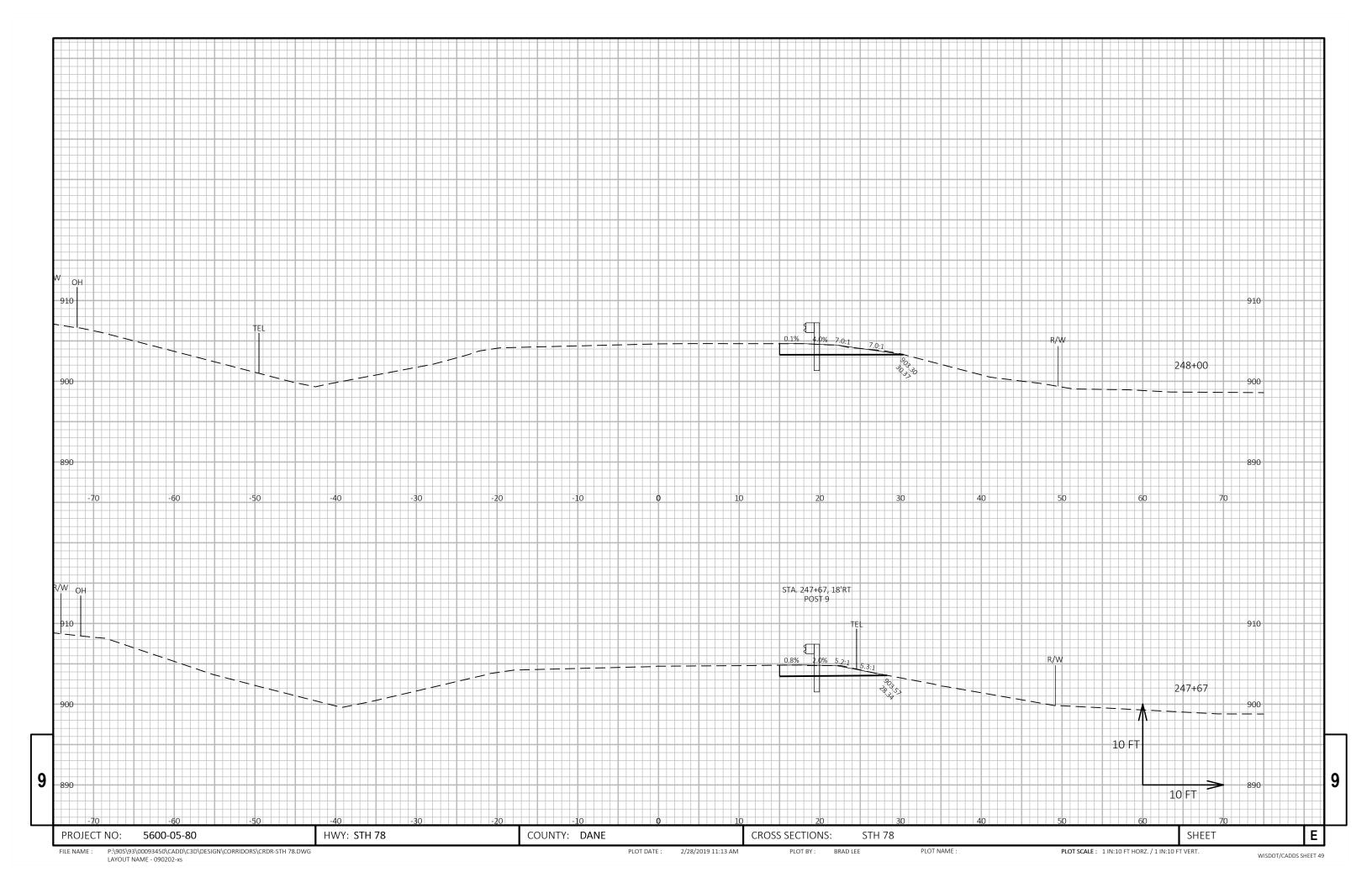
STA	EXCAVATION COMMON CY	EXCAVATION ROCK CY	FILL (1) CY	EXPANDED FILL (2) CY	WASTE CY	BORROW CY
247+00.00		Cī		<u> </u>	Ci	<u> </u>
247+17.00	9	0	0	0	9	-9
247+42.00	13	0	0	0	13	-13
247+67.00	13	0	0	0	13	-13
248+00.00	17	0	0	0	17	-17
	23	0	1	1	22	-22
248+50.00	0	0	0	0	0	0
248+50.01	208	0	26	34	174	-174
249+00.00	136	0	352	458	-322	322
249+50.00	105	0	471	612	-507	507
250+00.00	84	0	73	95	-11	11
250+23.25	101	0	13	17	84	-84
250+48.25	104	0	8	10	94	-94
250+73.25	109	0	0	0	109	-109
251+00.00	0	0	0	0	0	0
251+00.01	17	0	0	0	17	-17
251+50.00	17	0	0	0	17	-1 <i>7</i> -17
252+00.00						
252+17.45	6	0	0	0	6	-6
252+42.31	10	0	0	0	10	-10
252+67.16	11	0	0	0	11	-11
252+75.00	4	0	0	0	4	-4
SUBTOTALS	987	0	944	1227	-240	240
UNUSABLE PAVEMENT (3)						109
TOTALS	987	0	944	1227	-240	349

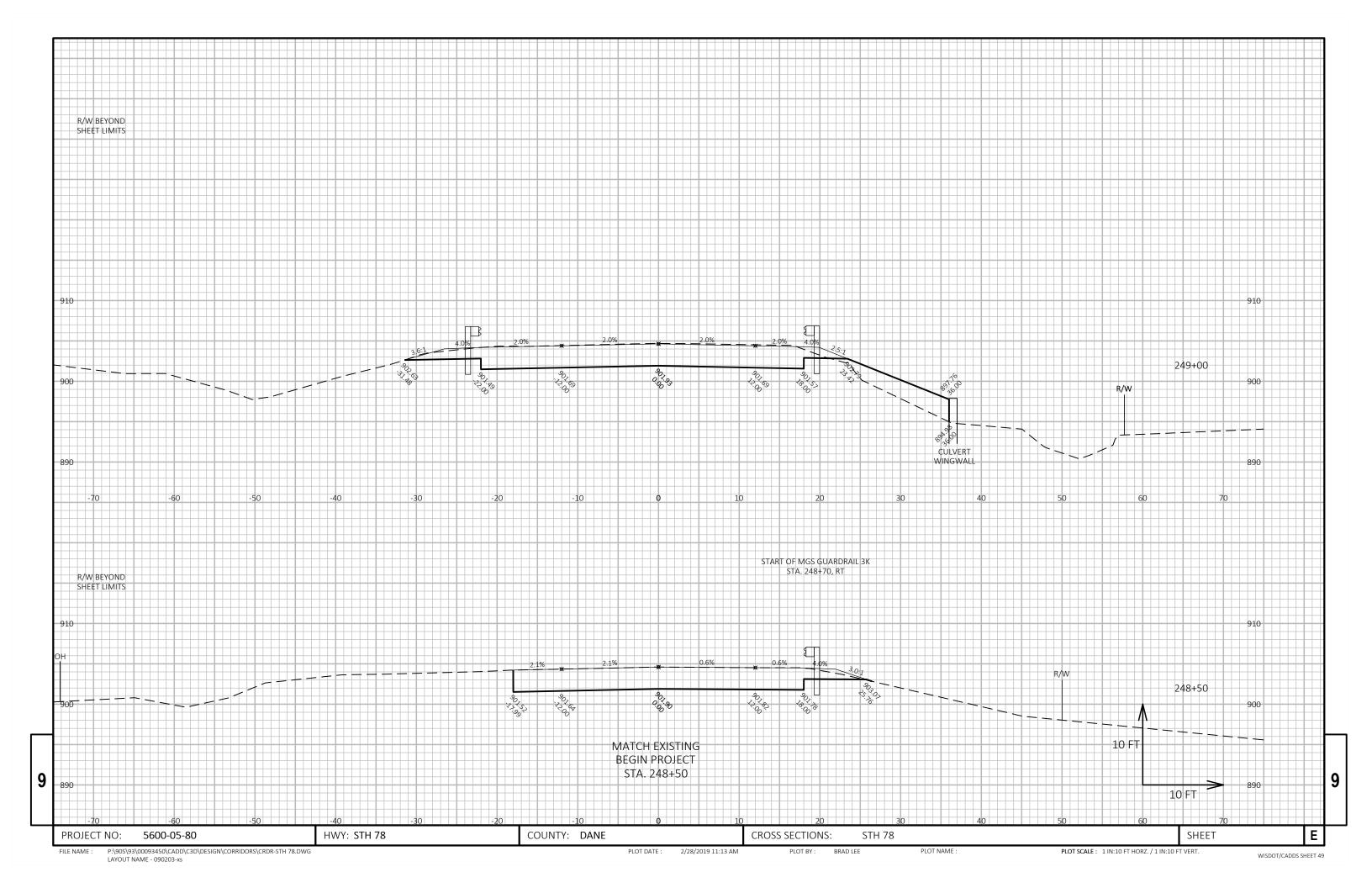
^{(1) -} NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY. (2) - FILL EXPANSION 30%

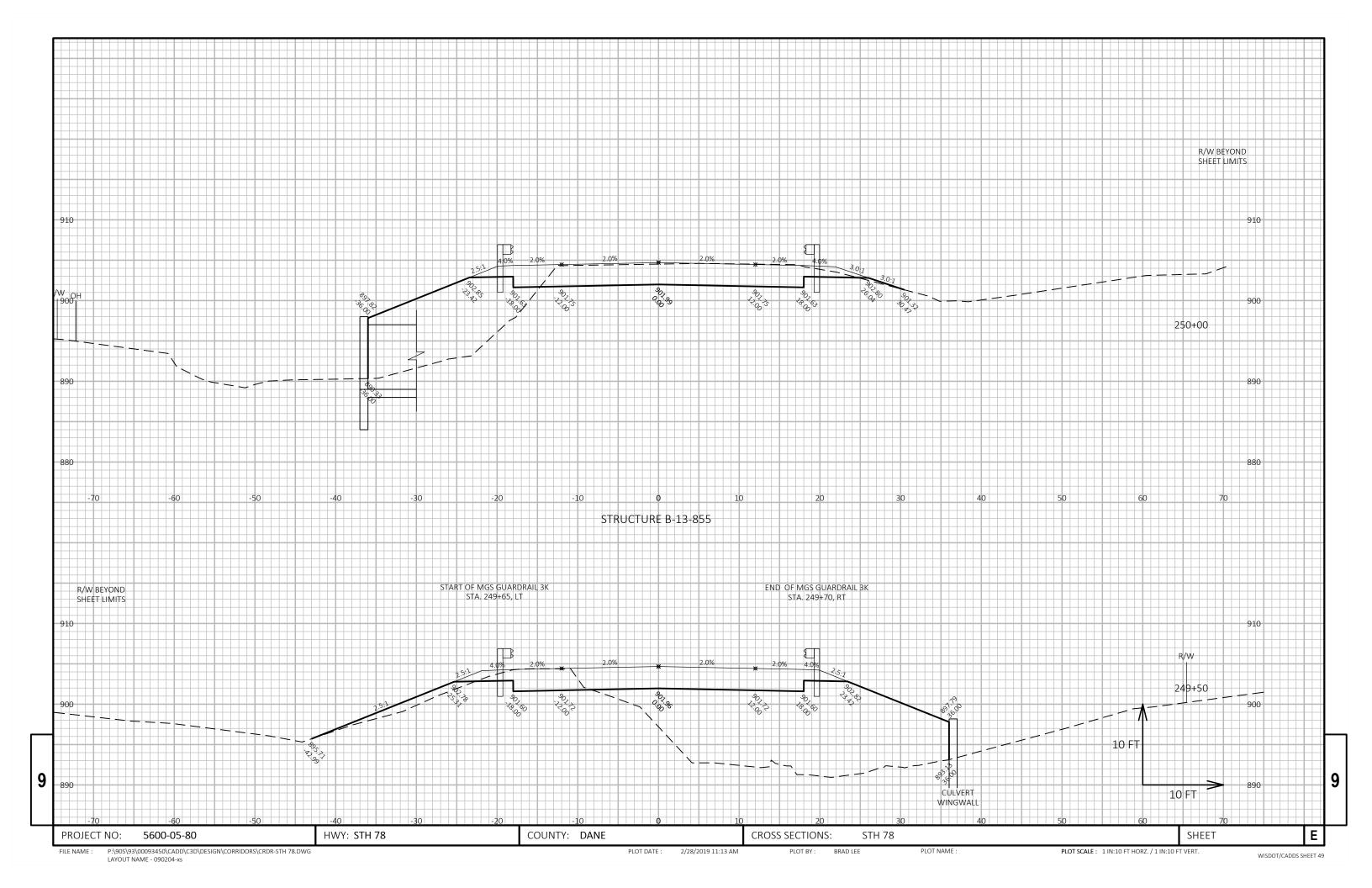
COUNTY: DANE Ε PROJECT NO: 5600-05-80 HWY: STH 78 EARTHWORK: SHEET

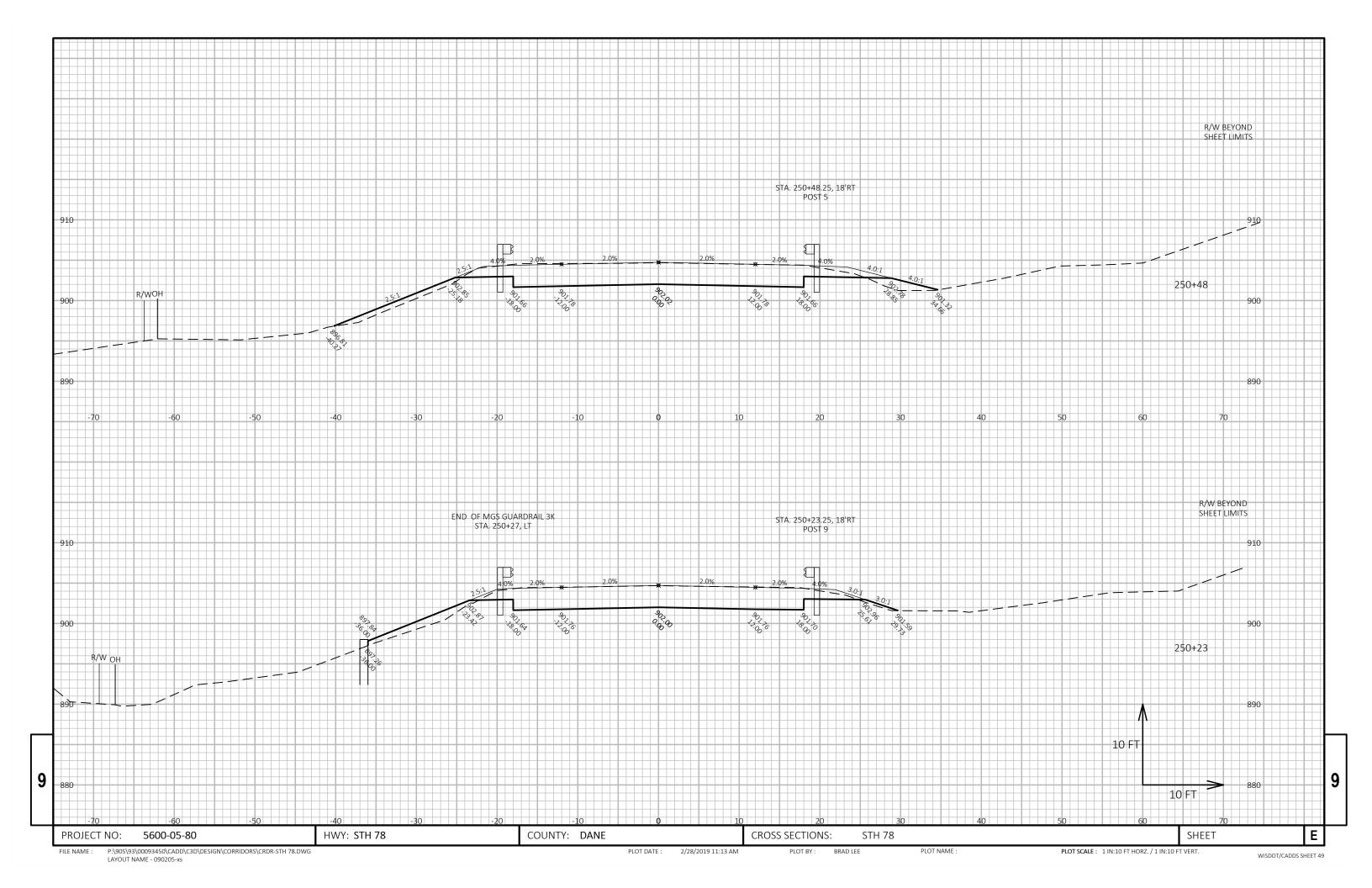
^{(3) -} EXISTING PAVEMENT BASED ON AVE THK OF 4.5" ASPHALT PER BORING LOG.

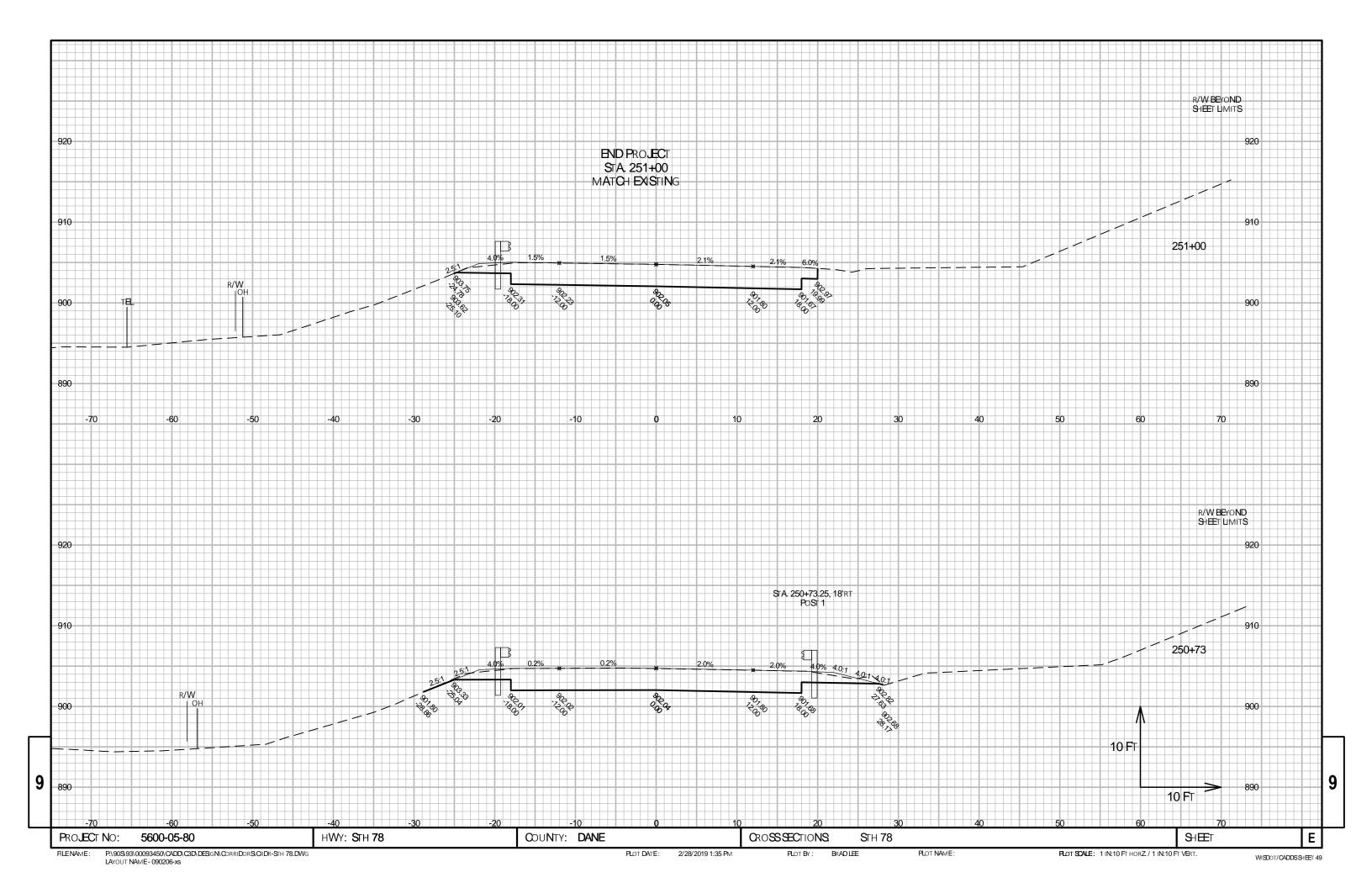


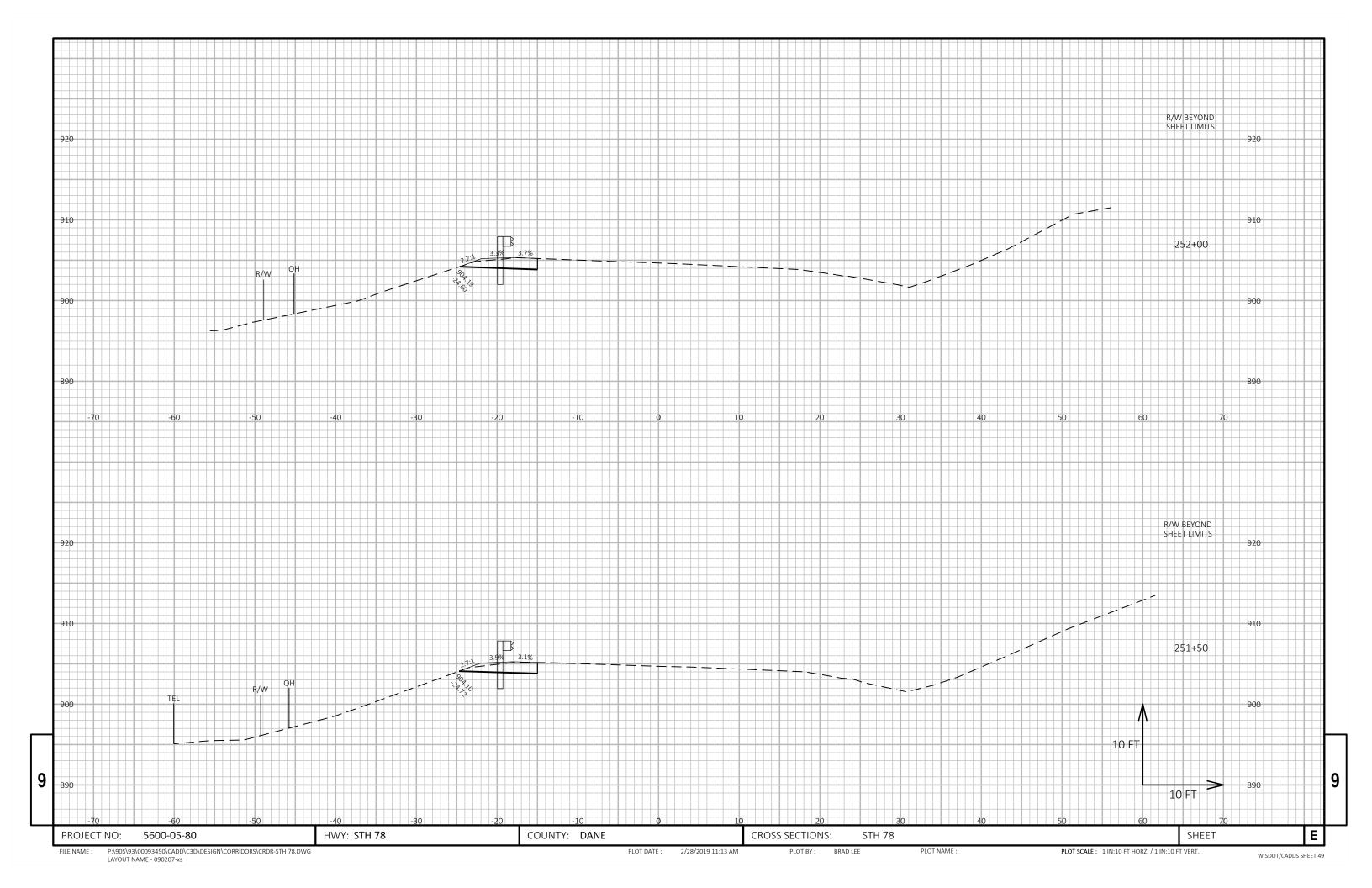


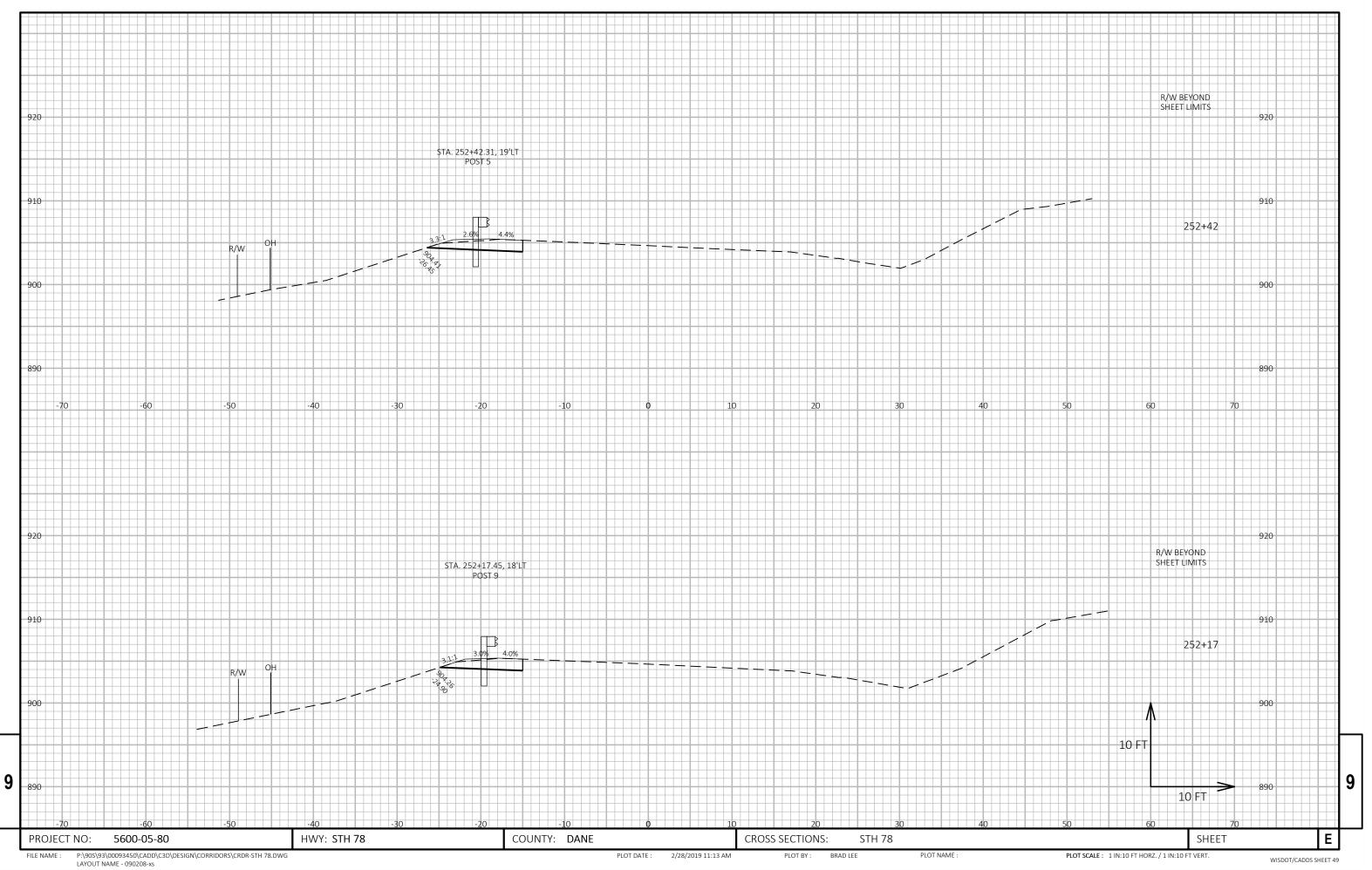


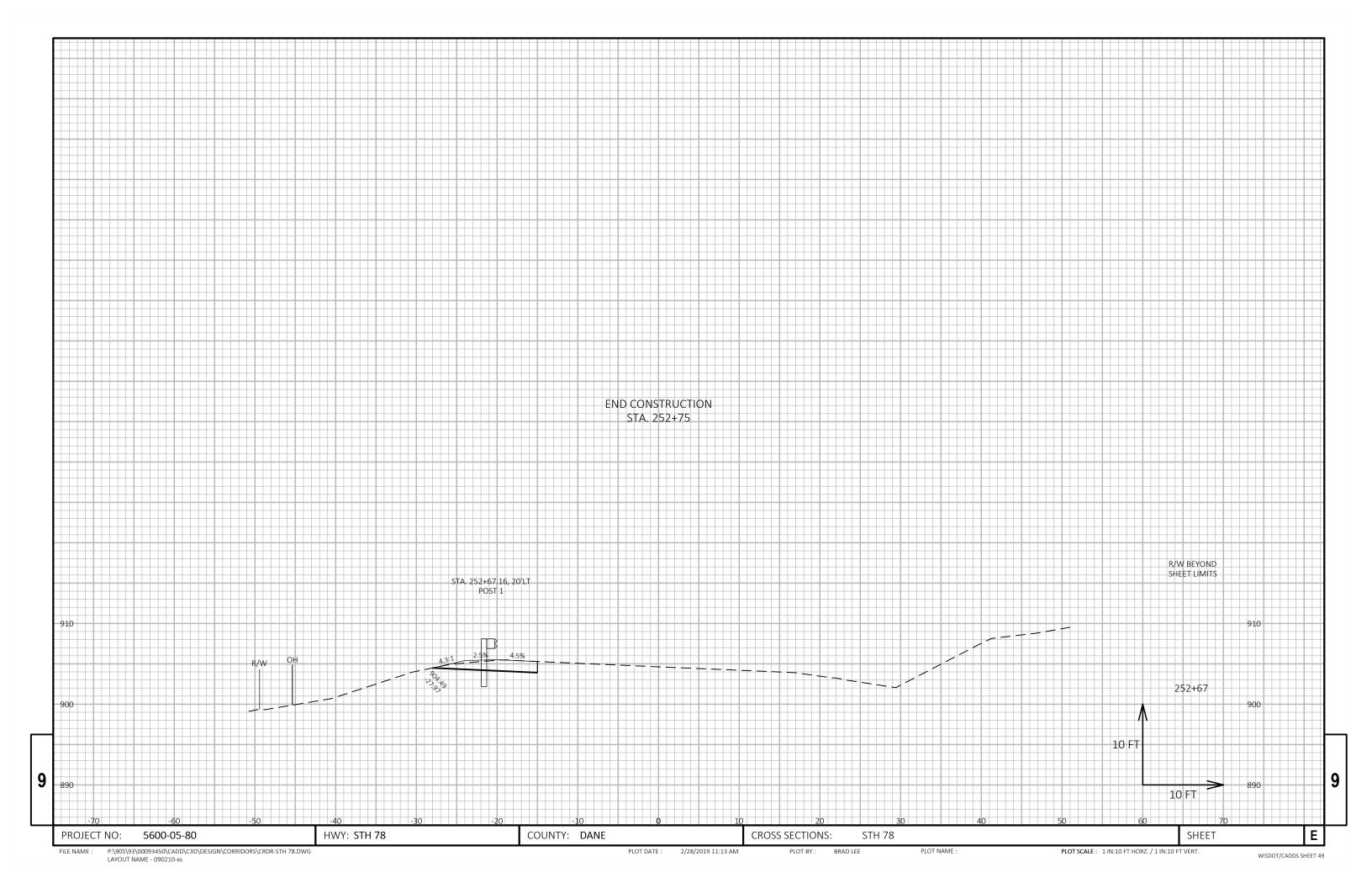


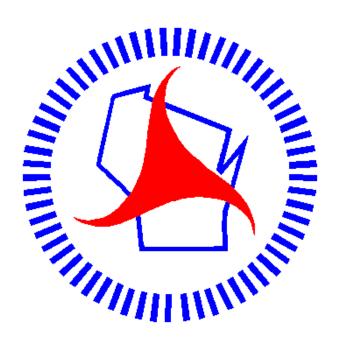












Wisconsin Department of Transportation

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