Section No. 3 Section No. 3

Section No. 8

Section No. 9

Section No. 9

TOTAL SHEETS = 70

APRIL 2018 STATE OF WISCONSIN ORDER OF SHEETS Section No. 1 DEPARTMENT OF TRANSPORTATION Typical Sections and Details Section No. 2

PLAN OF PROPOSED IMPROVEMENT

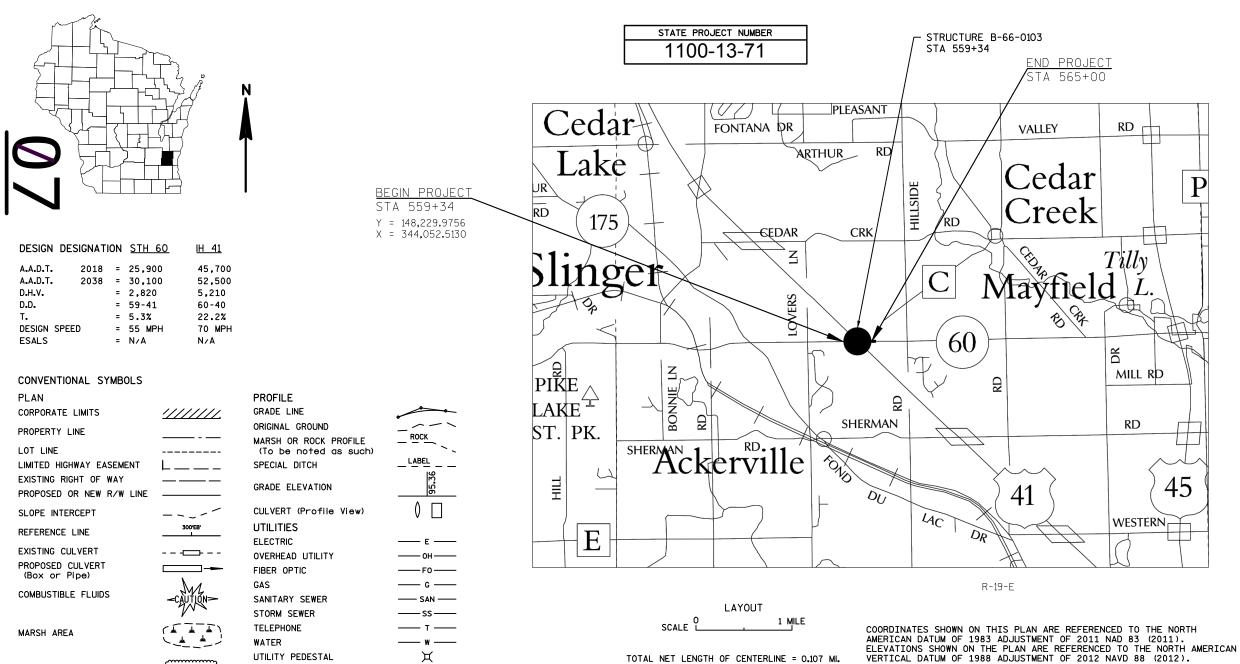
FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 1100-13-71 WISC 2018191

IH 41 NB LOOP RAMP & STH 60

MILWAUKEE TO FOND DU LAC ROAD

OFF 41

WASHINGTON COUNTY



T-10-N

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY WISDOT Surveyor BRETT MATHENY Designer BRIAN PLUEMER Project Manager REEM SHAHIN

APPROVED FOR THE DEPARTMENT

Buan Phiemes

WOODED OR SHRUB AREA

POWER POLE

TELEPHONE POLE

₫

Estimate of Quantities

Right of Way Plat Plan and Profile

Structure Plans

Cross Sections

Sign Plates

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Ε

FILE NAME : N:\PDS\C3D\CAD\11001301\010101_TI.DWG LAYOUT NAME - 010101_TI - TITLE SHEET 1 IN EQ 1 MI

STANDARD ABBREVIATIONS

AADT ANNUAL AVERAGE DAILY TRAFFIC

BM BENCHMARK
C/L CENTER LINE
CONC CONCRETE

D DEGREE OF CURVE
DHV DESIGN HOUR VOLUME

DD DIRECTIONAL DISTRIBUTION

E EAST

X EAST GRID COORDINATE

EB EASTBOUND

ESALS EQUIVALENT SINGLE AXLE LOADS

FT FOOT INL INLET LT LEFT

L LENGTH OF CURVE LF LINEAR FOOT

MH MANHOLE

MB MESSAGE BOARD

N NORTH

Y NORTH GRID COORDINATE

NB NORTHBOUND

PCC POINT OF COMPOUND CURVE

PC POINT OF CURVATURE
PI POINT OF INTERSECTION

PT POINT OF TANGENCY

R RADIUS
R RANGE
S SOUTH

SB SOUTHBOUND
SF SQUARE FEET
SY SQUARE YARD

SDD STANDARD DETAIL DRAWING
STH STATE TRUNK HIGHWAY

STA STATION

SS STORM SEWER

T TANGENT TOWN

T TRUCKS (PERCENT OF)
USH UNITED STATES HIGHWAY

VAR VARIABLE
W WEST
WB WESTBOUND

CONTACTS

WISDOT REGION CONTACT

BRIAN PLUEMER, P.E. PROJECT MANAGER 141 NW BARSTOW ST

PO BOX 798

WAUKESHA, WI 53187 PHONE: (262) 548-6721 CELL: (414) 750-2271 brian.pluemer@dot.wi.gov

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2300 N DR. MARTIN LUTHER KING JR. DR.

MILWAUKEE, WI 53212 PHONE: (414) 263-8517 CELL: (414) 507-4946

kristina.betzold@wisconsin.gov

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WASHINGTON COUNTY PUBLIC AGENCY CENTER (PAC)

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PO BOX 2003

WEST BEND, WI 53095-2003 PHONE: 262-335-6881 FAX: 262-335-4171

scott.schmidt@co.washington.wi.us

VILLAGE OF SLINGER DIRECTOR OF PUBLIC WORKS

JAMES HAGGERTY 300 SLINGER ROAD SLINGER, WI 53086

PHONE: 262-644-5265 Ext. 135

FAX: 262-644-6341

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW

TYPICAL SECTIONS

CONSTRUCTION DETAILS

PLAN DETAIL & EROSION CONTROL

PAVEMENT MARKING

TRAFFIC CONTROL & DETOUR ROUTE

ALIGNMENT

GENERAL NOTES

THERE ARE NO KNOWN UTILITY FACILITIES WITHIN THE PROJECT AREA. IDENTIFY ALL UTILITIES IN THE AREA BY CONTACTING DIGGERS HOTLINE.

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

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND MULCHED.

EXCAVATION, BORROW, TOPSOIL, MULCH, FERTILIZER, AND SEEDING ALL PAID AS PART OF BARRIER SYSTEM GRADING SHAPING FINISHING

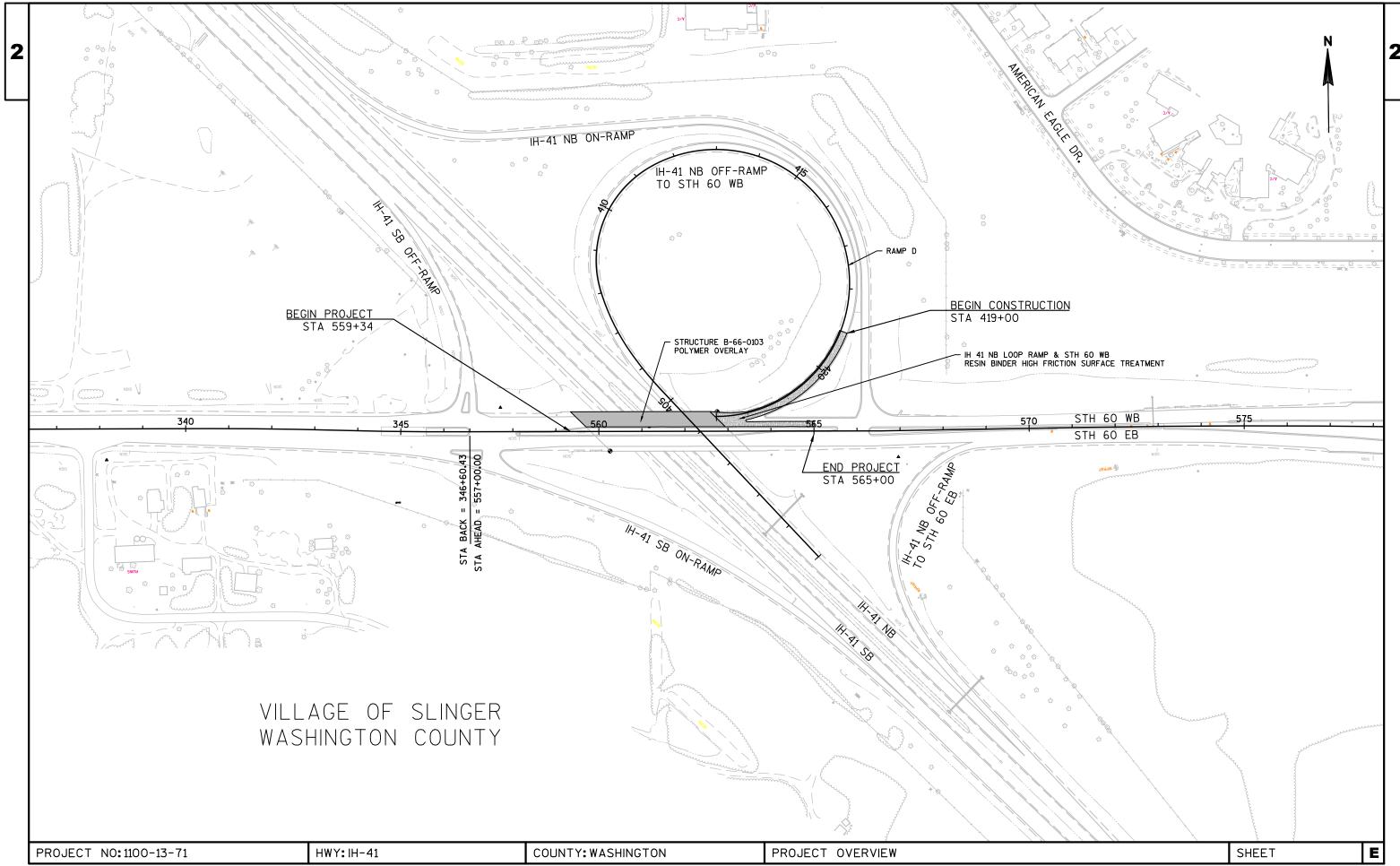
CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND THE WASHINGTON COUNTY SURVERYOR - SCOTT SCHMIDT, AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVERY MONUMENT.

REFER TO THE EROSION CONTROL SPECIAL PROVISIONS FOR FURTHER REQUIREMENTS ON EROSION CONTROL.

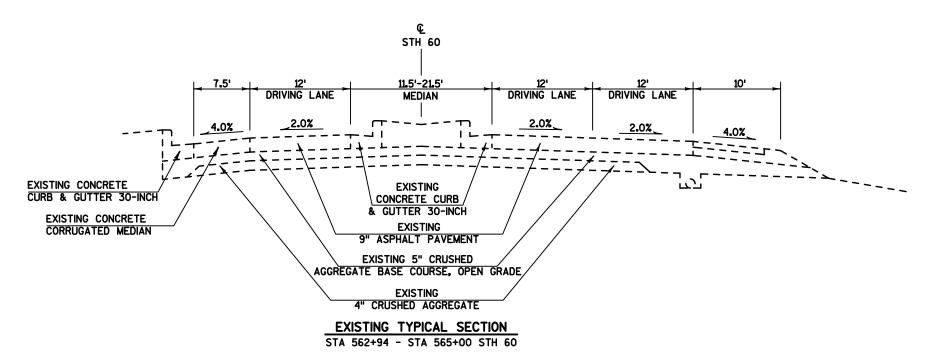


PROJECT NO: 1100-13-71 HWY: IH-41 COUNTY: WASHINGTON GENERAL NOTES SHEET: E

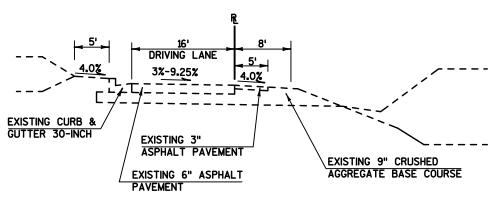
FILE NAME : PLOT DATE : _____ PLOT BY : _____ PLOT NAME : ____ PLOT SCALE : 1:1



2



*SEE STRUCTURE PLAN FOR BRIDGE TYPICAL SECTION

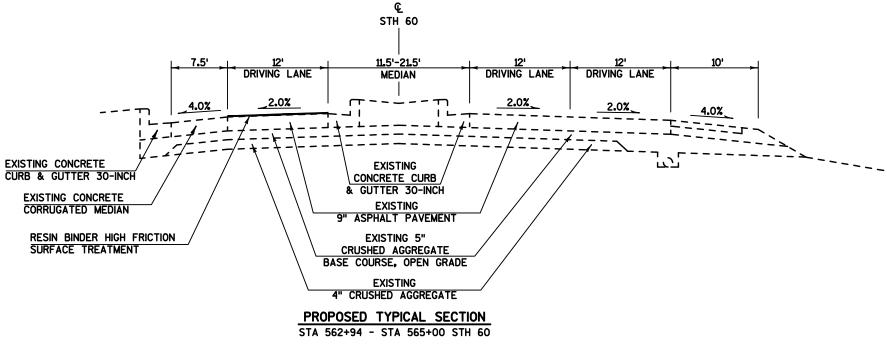


EXISTING TYPICAL SECTION

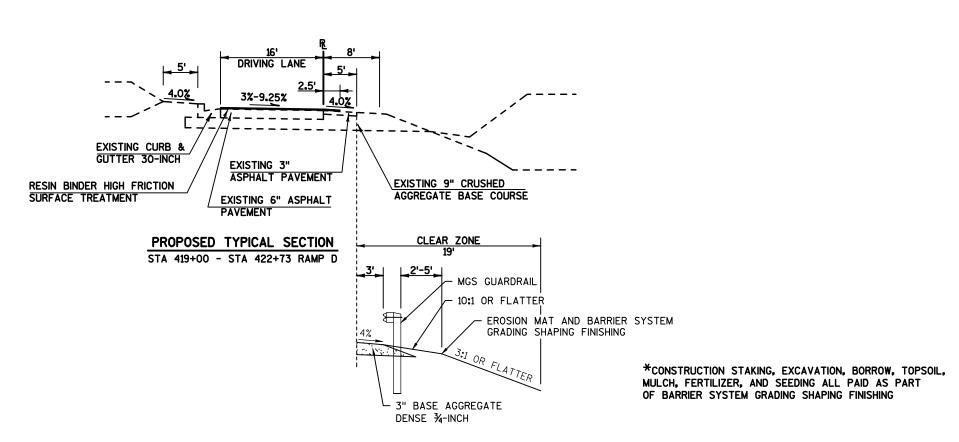
STA 419+00 - STA 422+73 RAMP D

PROJECT NO:1100-13-71 HWY: IH-41 COUNTY: WASHINGTON TYPICAL SECTIONS SHEET **E**





*SEE STRUCTURE PLAN FOR BRIDGE TYPICAL SECTION



SHOULDER WITH MGS GUARDRAIL

STA 420+87 - STA 422+61 RAMP D

PROJECT NO:1100-13-71 HWY: IH-41 COUNTY: WASHINGTON TYPICAL SECTIONS SHEET **E**

2

FILL LONGITUDINAL AND/OR TRANSVERSE CRACKS/JOINTS
GREATER THAN ¼ INCH WITH RESIN BINDER HIGH FRICTION
SURFACE TREATMENT, PAID FOR INCIDENTALLY TO RESIN
BINDER HIGH FRICTION SURFACE TREATMENT.

VAR 0.25"-1.5"

VAR 0.25"-1.5"

EXISTING HMA

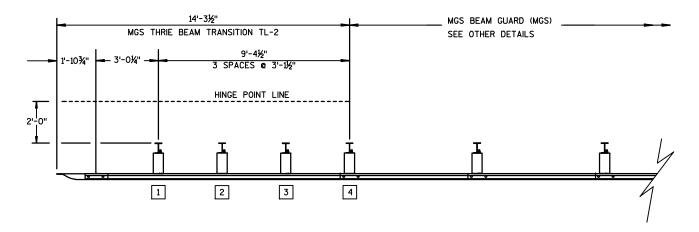
RESIN BINDER HIGH FRICTION SURFACE TREATMENT PAVEMENT SURFACE PREPERATION

EXISTING HMA

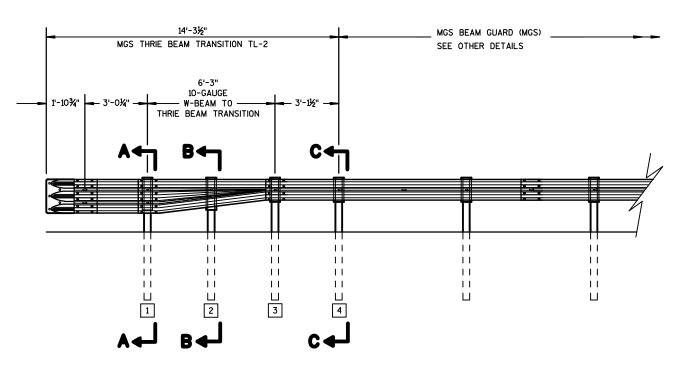
JOINT AND CRACK SEALING LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER

PROJECT NO:1100-13-71 HWY:H-41 COUNTY:WASHINGTON CONSTRUCTION DETAILS SHEET **E**

TRANSITION USES STEEL POSTS ONLY.



PLAN VIEW

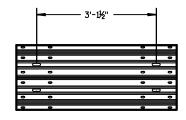


ELEVATION VIEW

MGS THRIE BEAM TRANSITION TL-2

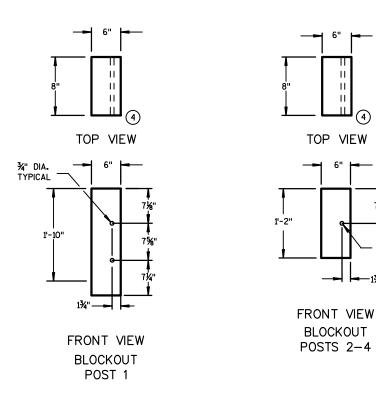
PROJECT NO:1100-13-71 HWY: IH-41 COUNTY: WASHINGTON CONSTRUCTION DETAILS SHEET E

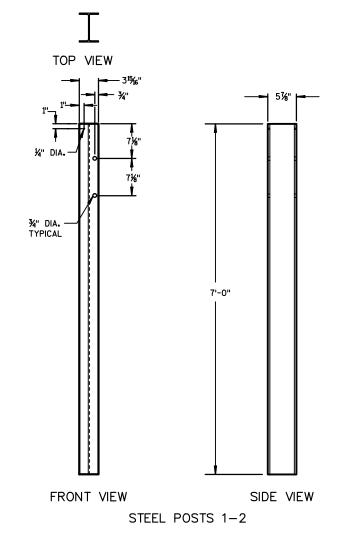
10 GAUGE W-BEAM TO THRIE BEAM TRANSITION SECTION

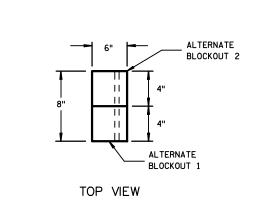


10 GAUGE THRIE BEAM SECTION

HWY: IH-41

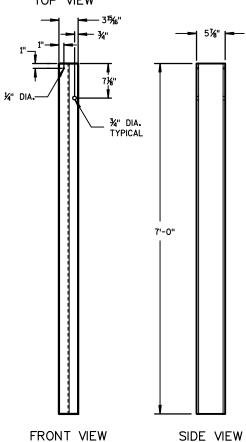






ALTERNATE WOOD BLOCKOUT DETAIL

MGS THRIE BEAM TRANSITION TL-2



GENERAL NOTES

STEEL POSTS ARE W6X8.5 OR W6X9.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

- WHEN USING STEEL POSTS 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.
- 4 WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

COUNTY: WASHINGTON

16D GALVANIZED DOUBLE

HEAD NAILS

ALTERNATE

BLOCKOUT 2

SIDE VIEW

SEE OTHER DETAILS

ALTERNATE BLOCKOUT 1

PROJECT NO: 1100-13-71

CONSTRUCTION DETAILS

SHEET

STEEL POSTS 3-4

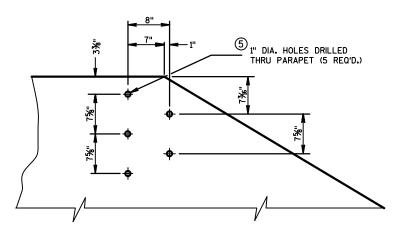
GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS, ADJUST THE POSITION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

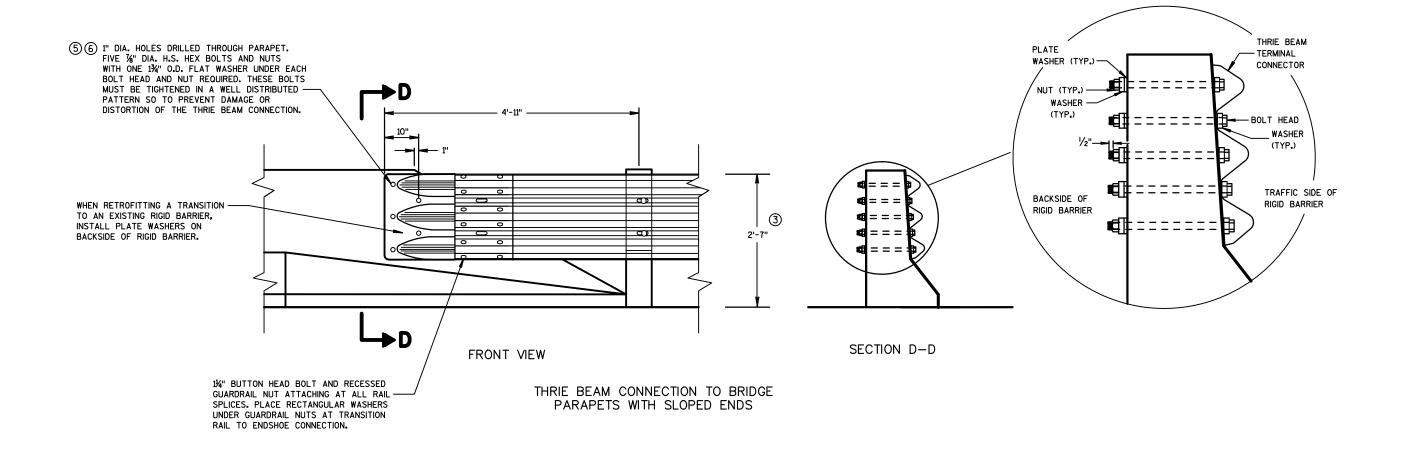
BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325, A449 AND GALVANIZED PER STANDARD SPECIFICATIONS 614.

TRANSITION USES STEEL POSTS ONLY.

- 3 TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".
- (5) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- 6 BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X %" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



HWY: IH-41

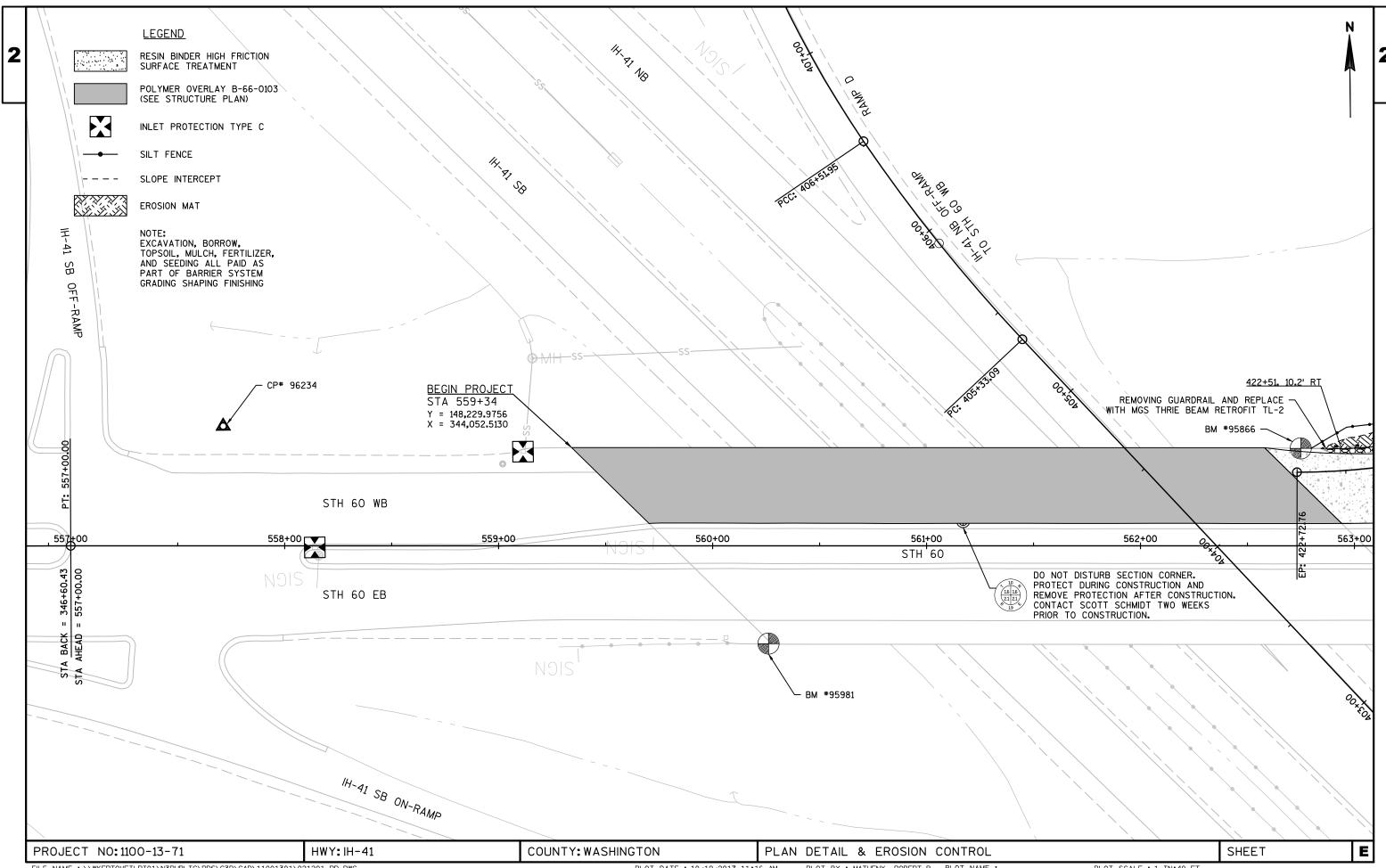
PROJECT NO: 1100-13-71

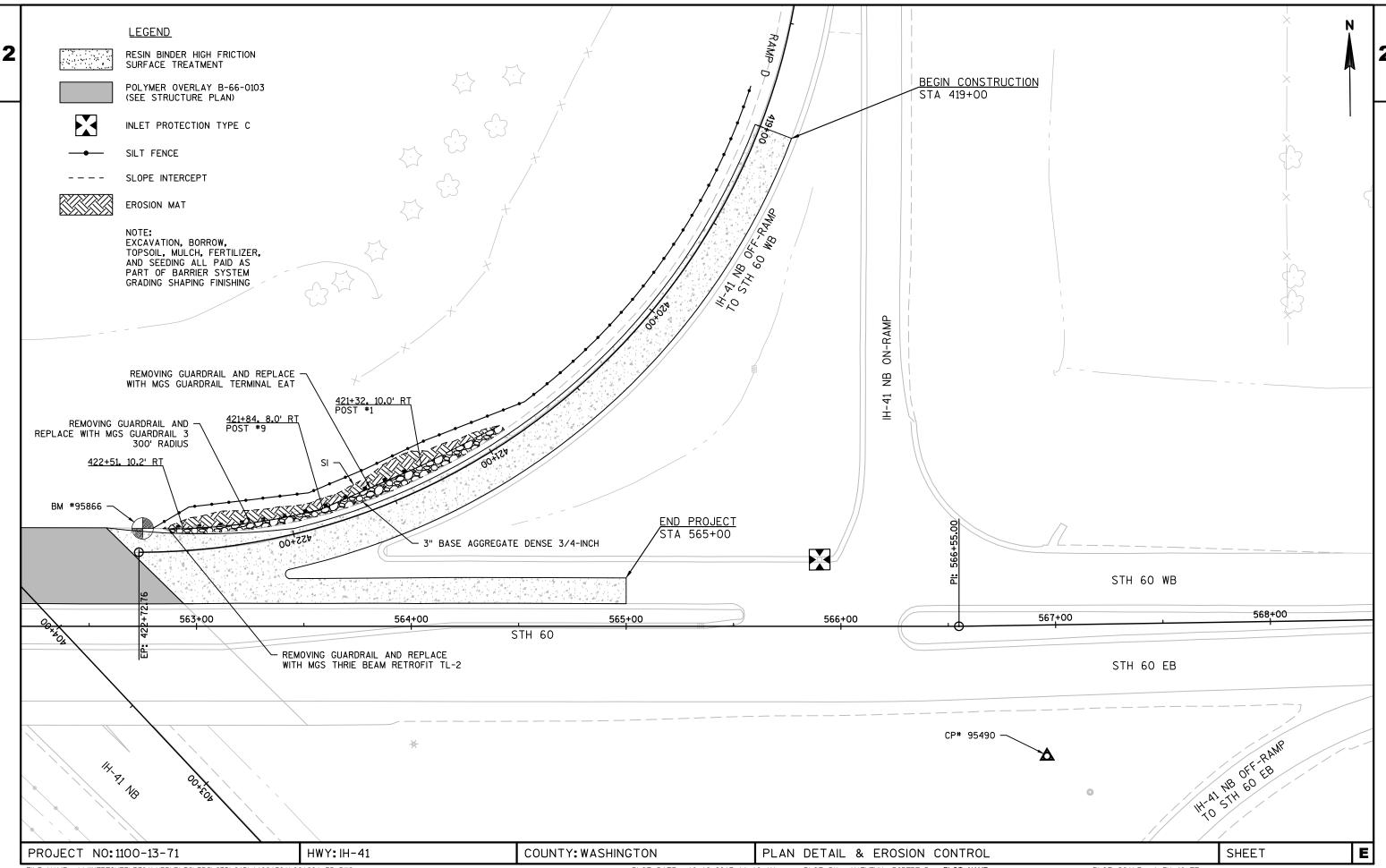
COUNTY: WASHINGTON

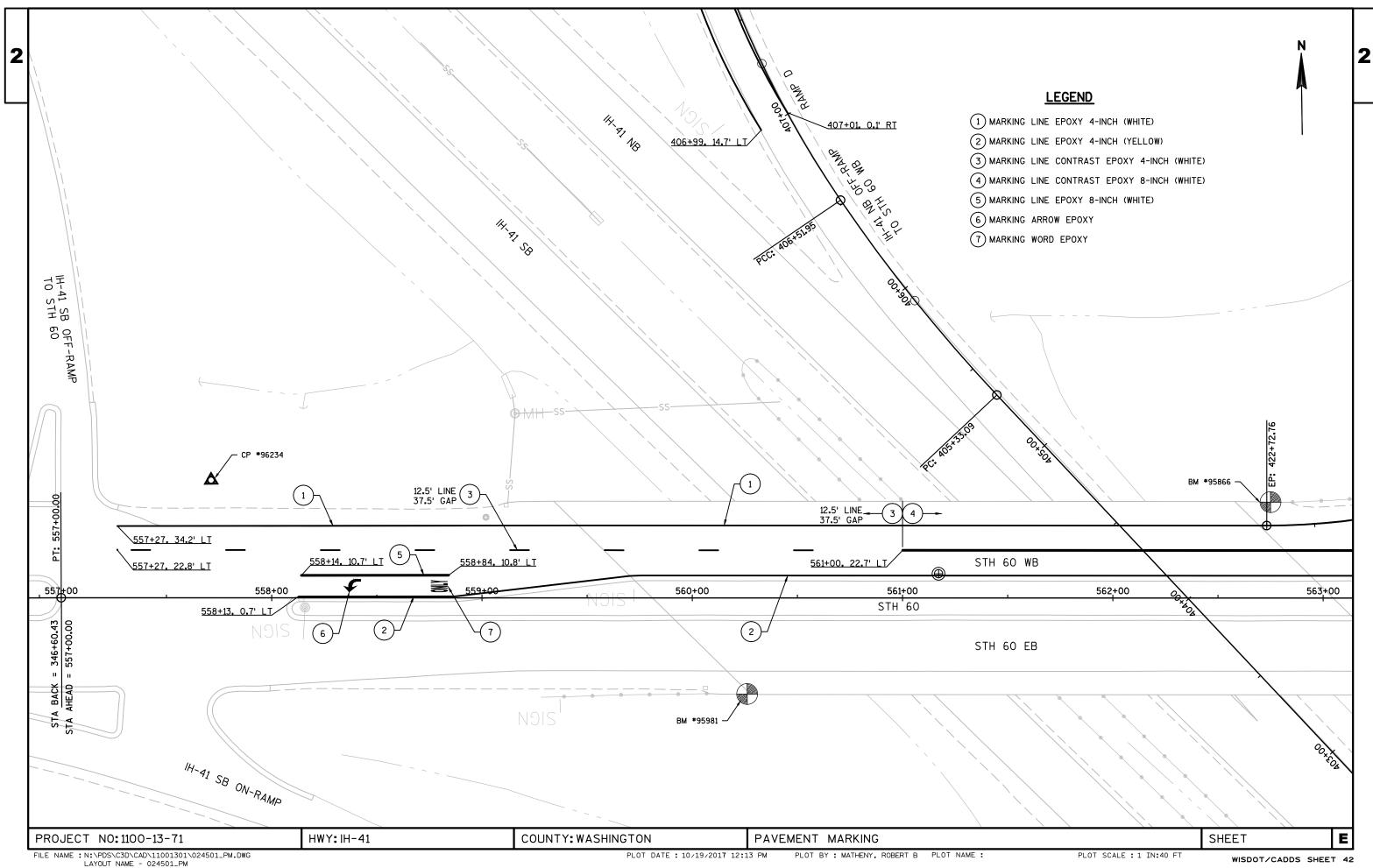
MGS THRIE BEAM TRANSITION TL-2

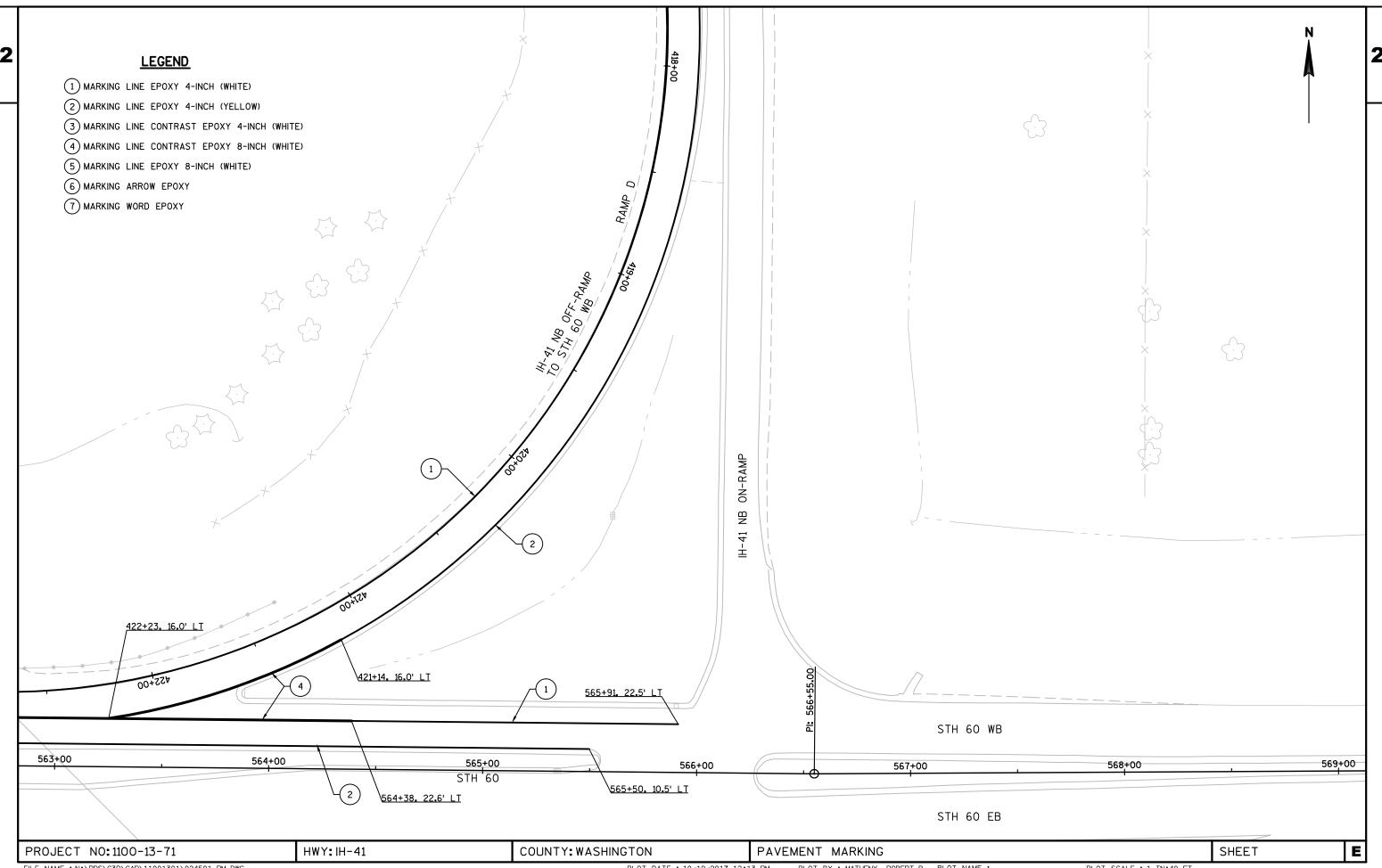
CONSTRUCTION DETAILS

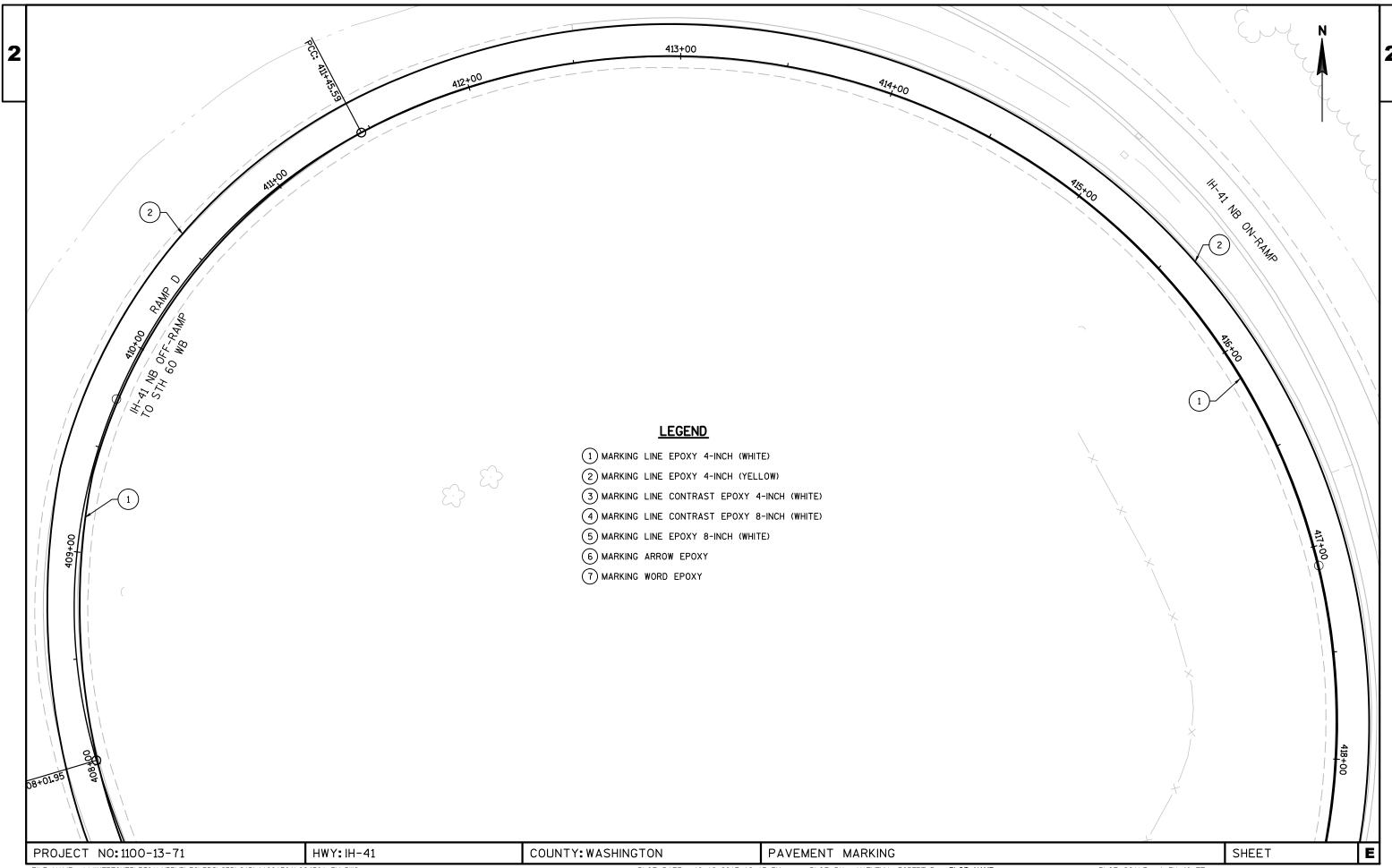
SHEET











|2

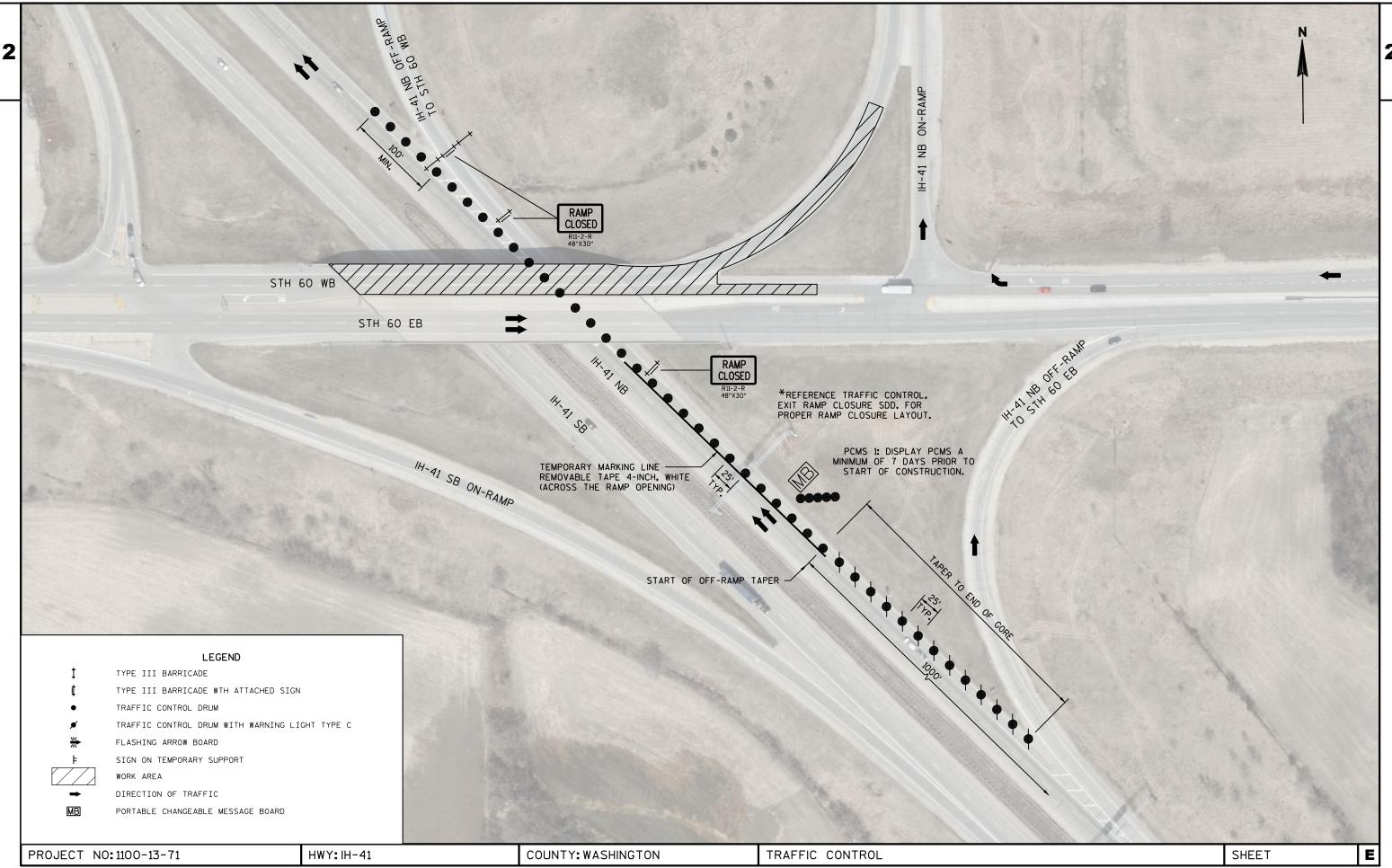
GENERAL NOTES FOR TRAFFIC CONTROL

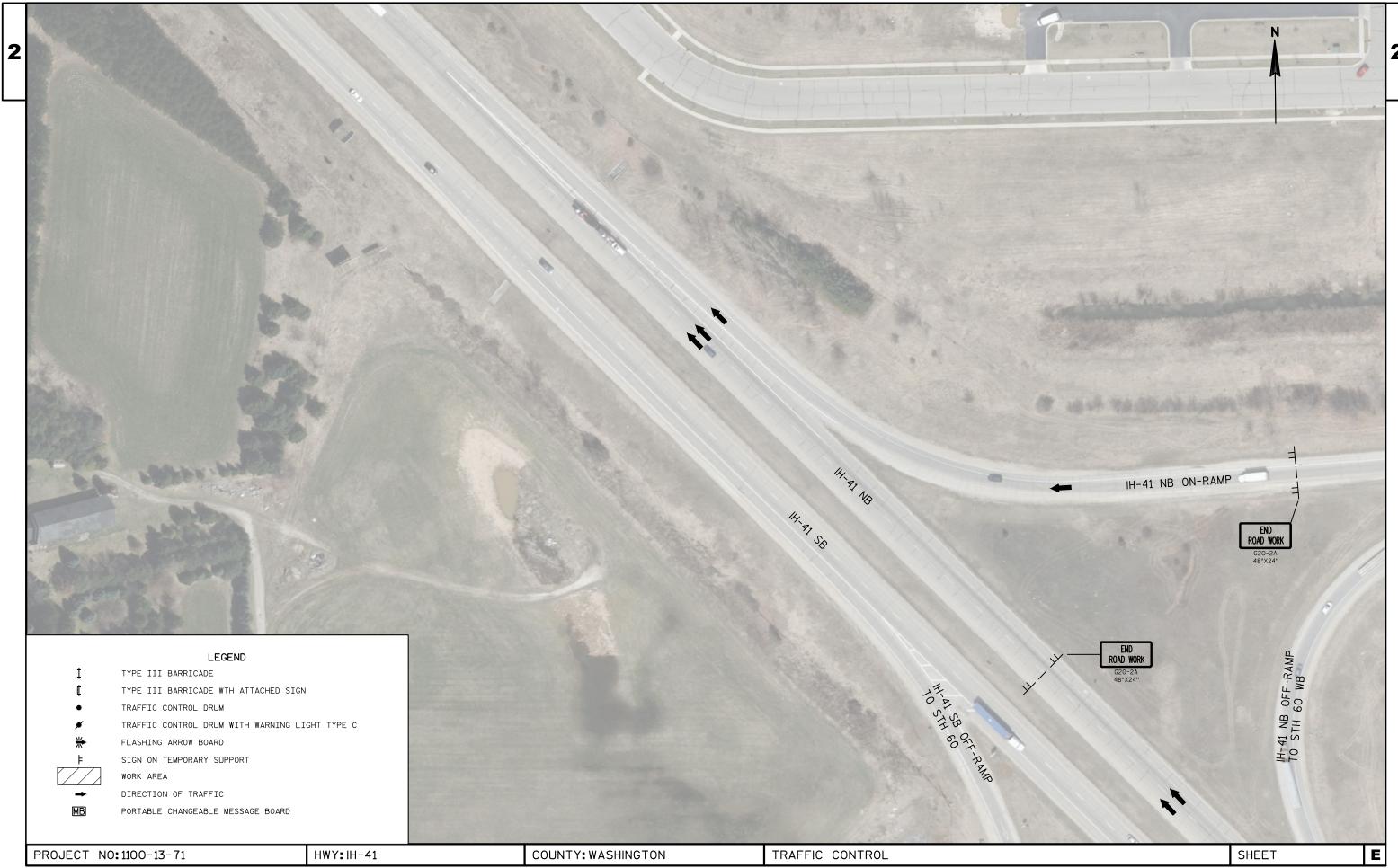
- 1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- 2) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- 3) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- 4) THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.
- 5) SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SIGNS.
- 6) ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.
- 7) INSTALL PROPOSED TRAFFIC CONTROL SIGNS ON BOTH OUTSIDE SHOULDER AND MEDIAN SIDE OF ALL DIVIDED ROADWAYS OR AS DIRECTED BY THE ENGINEER.
- 8) DUE TO WORK OPERATIONS ASSUME ALL WORK ACTIVITIES WILL BE LESS THAN 4 DAYS. DO NOT REMOVE PAVEMENT MARKING PER TRAFFIC CONTROL, LANE CLOSURE.

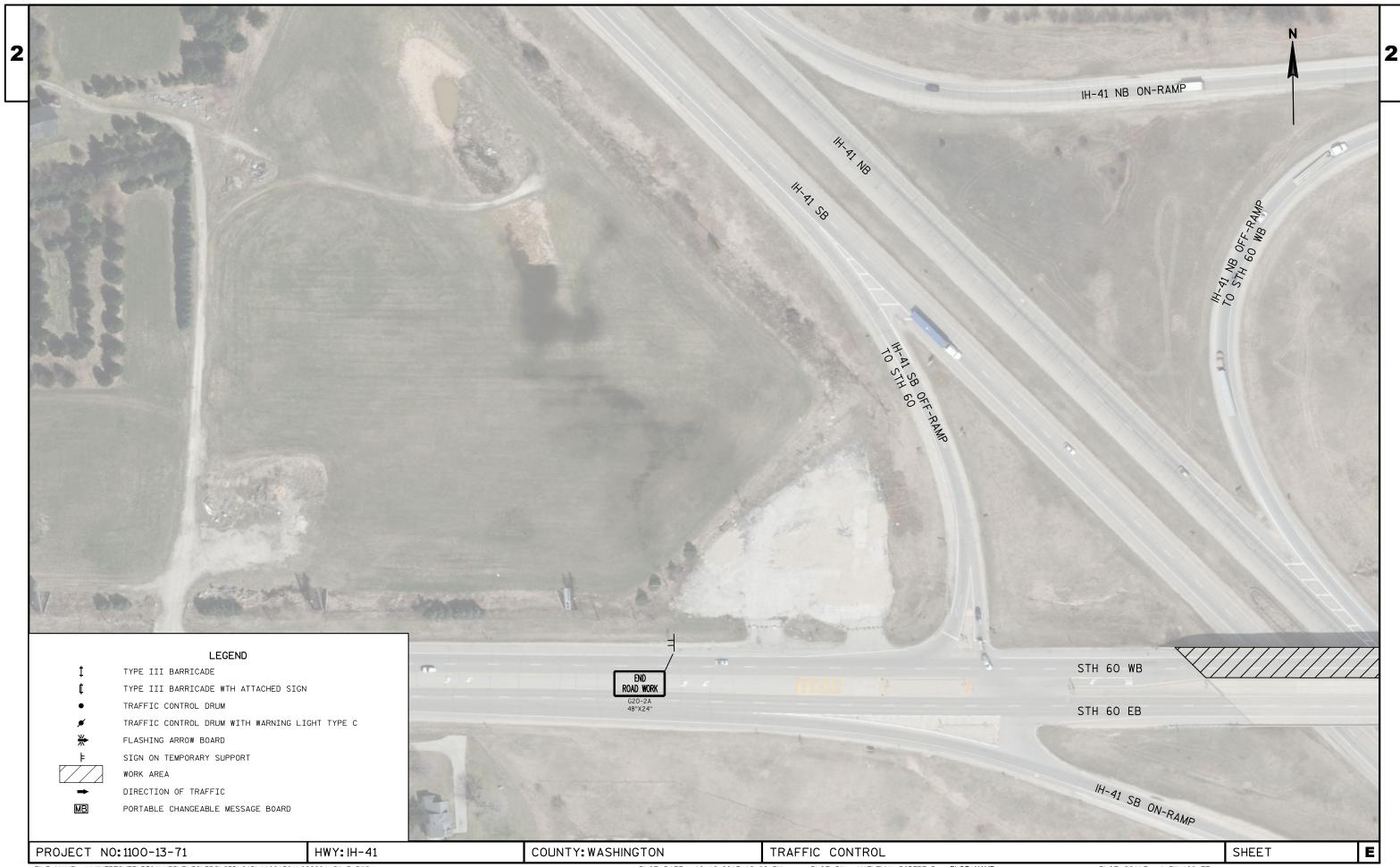
PROJECT NO:1100-13-71 HWY: IH-41 COUNTY: WASHINGTON TRAFFIC CONTROL NOTES SHEET

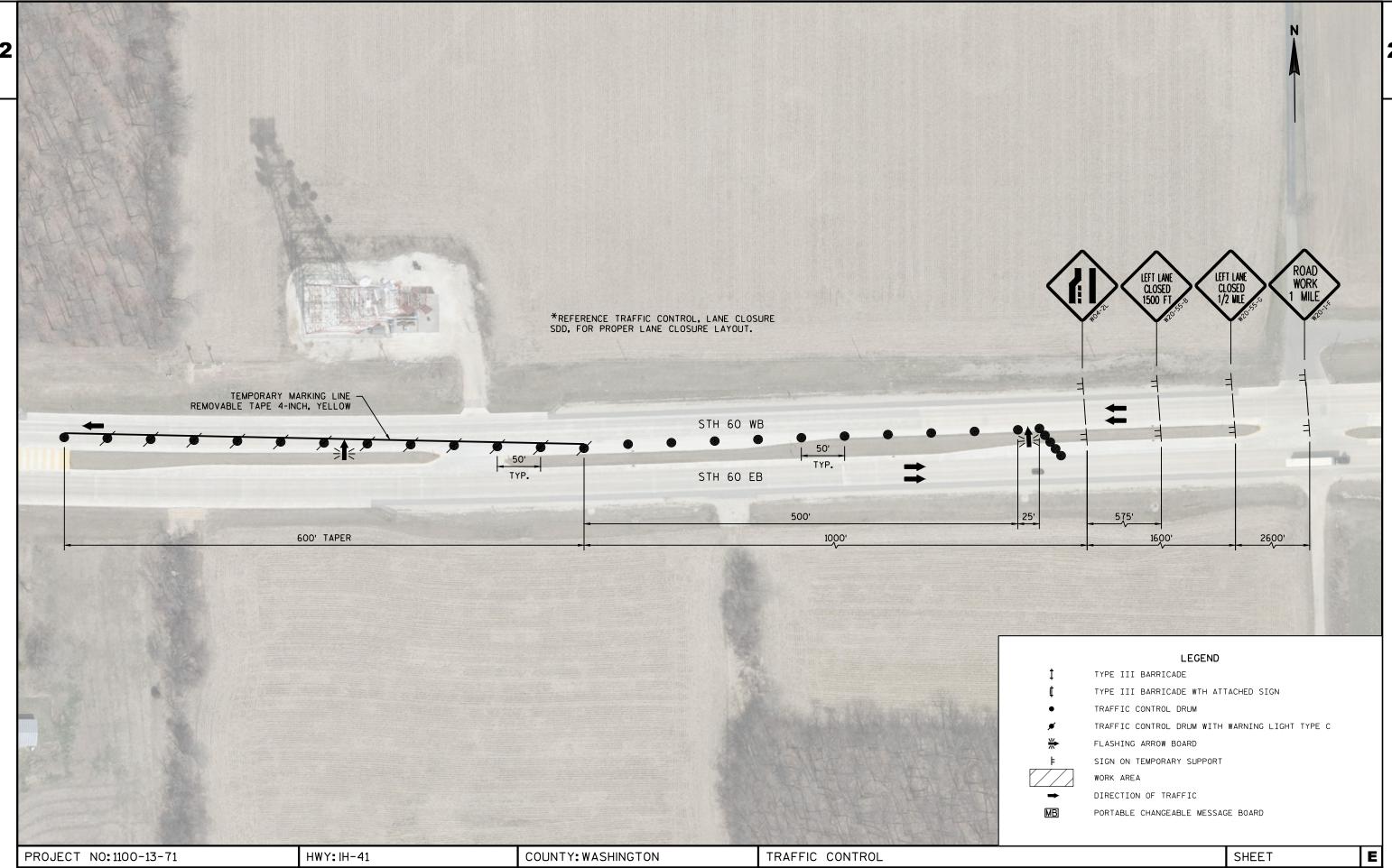
E

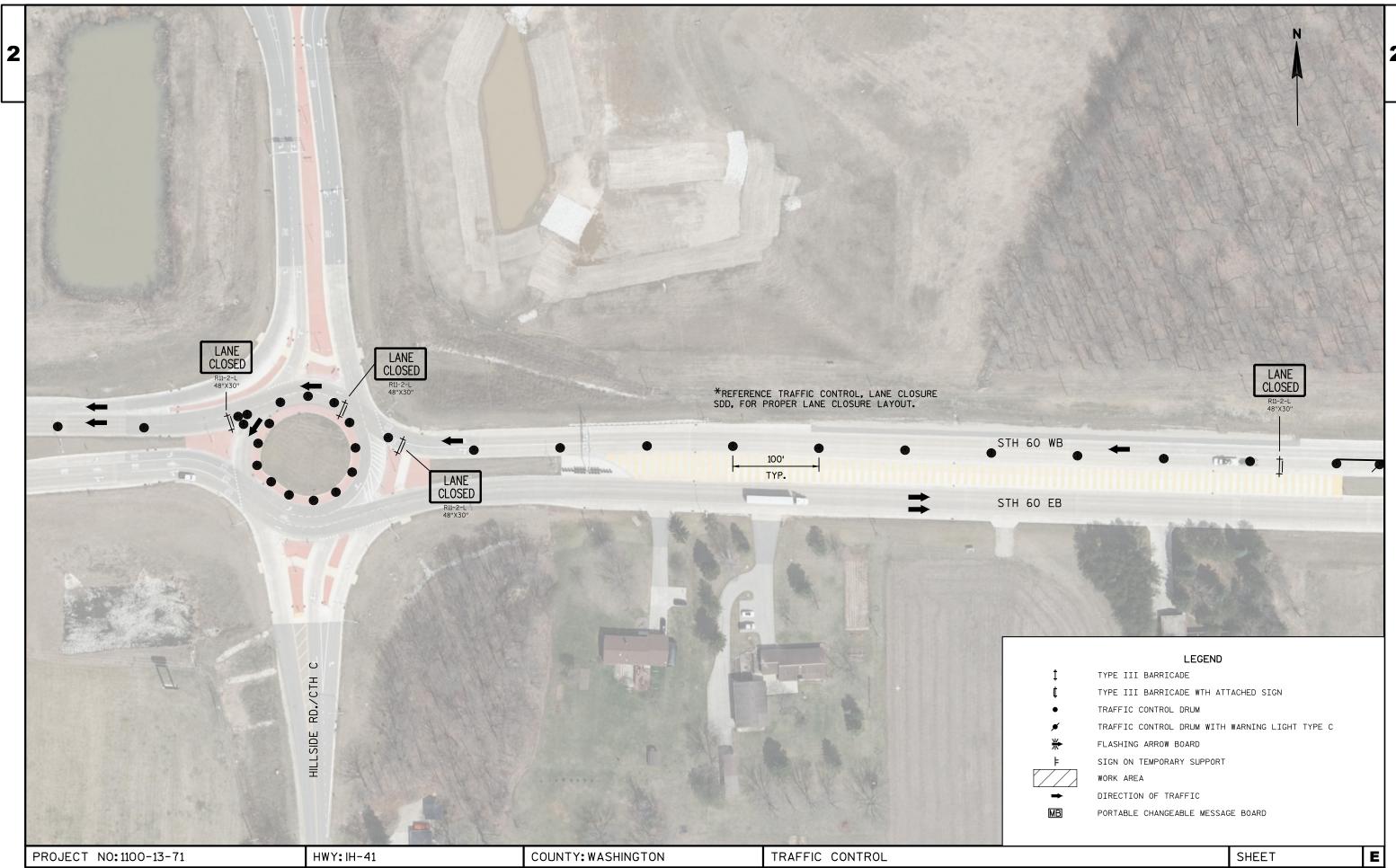




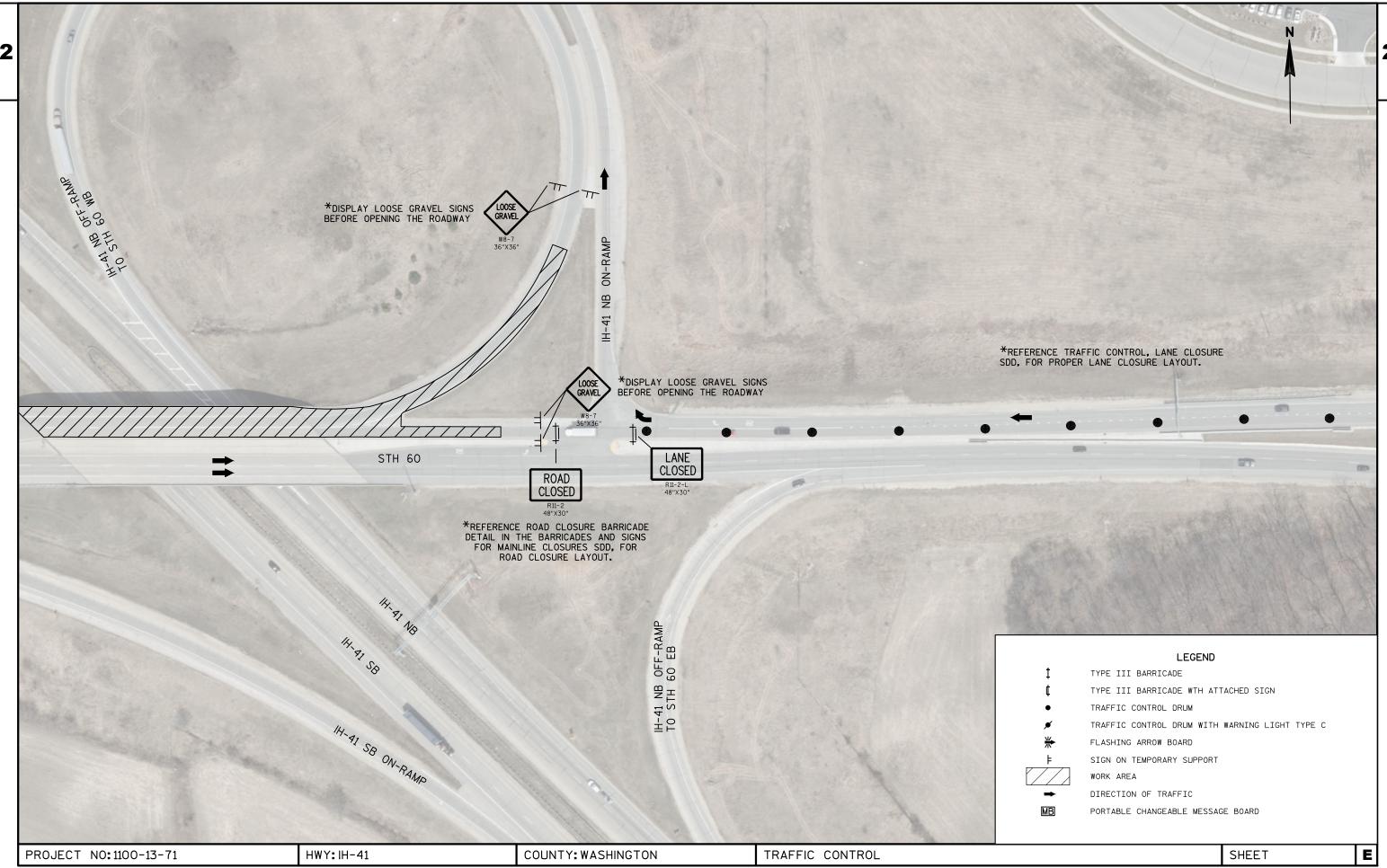






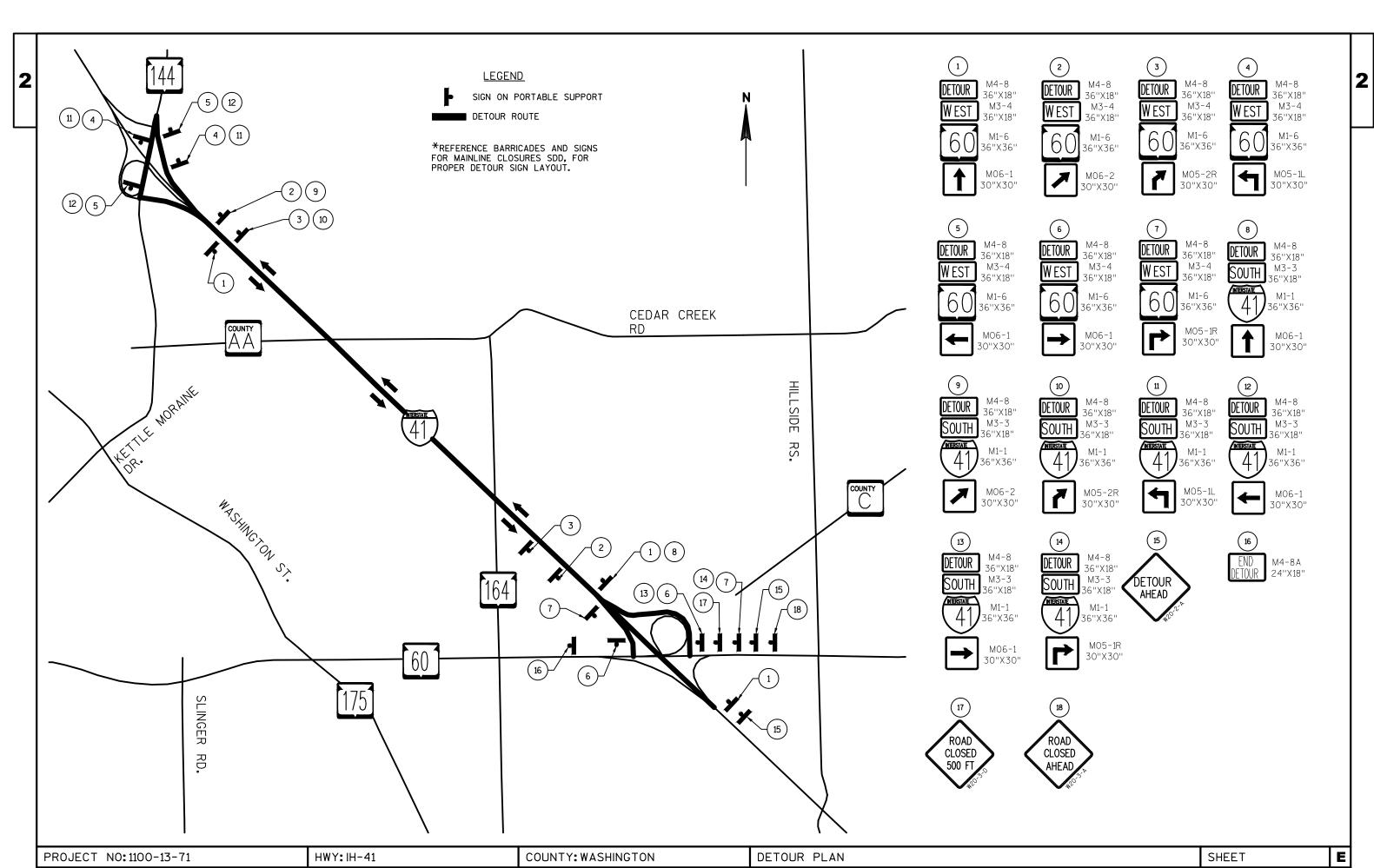






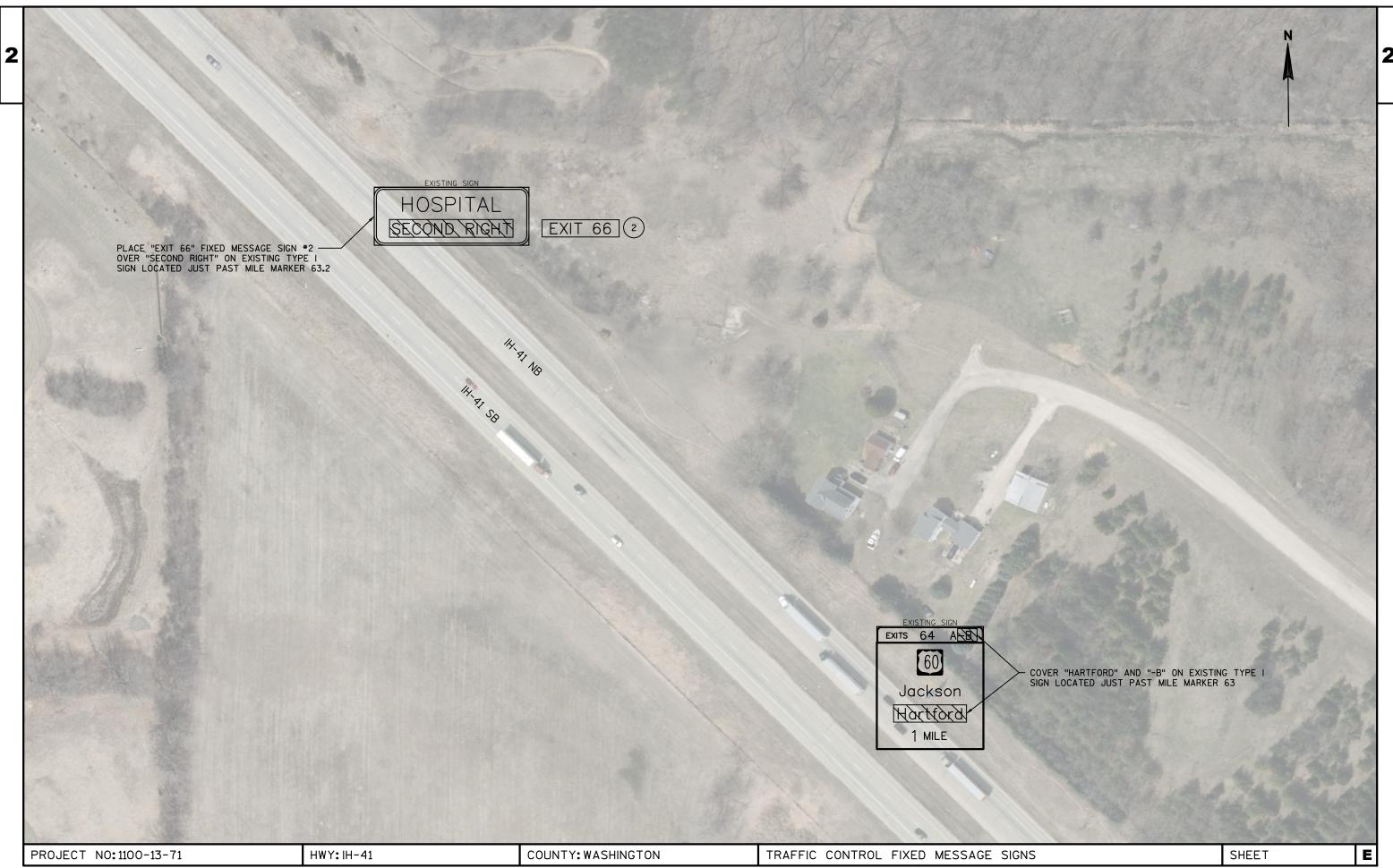






MESSAGE PRIOR TO CLOSURE MESSAGE DURING CLOSURE FRAME 1 FRAME 2 EXIT 64B EXIT 64B FOLLOW PCMS 1 CLOSED PCMS 1 CLOSED DETOUR (7 DAYS PRIOR) JULY XX BRIDGE BRIDGE FOLLOW PCMS 2 CLOSED CLOSED PCMS 2 DETOUR (7 DAYS PRIOR) JULY XX AHEAD FRAME 1 FRAME 2 STH 60 STH 60 CLOSED PCMS 3 OVER OVER I-41 PCMS 3 JULY XX (7 DAYS PRIOR) CLOSED I-41 STH 60 STH 60 CLOSED OVER OVER I-41 PCMS 4 PCMS 4 JULY XX I-41 CLOSED (7 DAYS PRIOR) E PROJECT NO: 1100-13-71 HWY: IH-41 COUNTY: WASHINGTON SHEET DETOUR PLAN



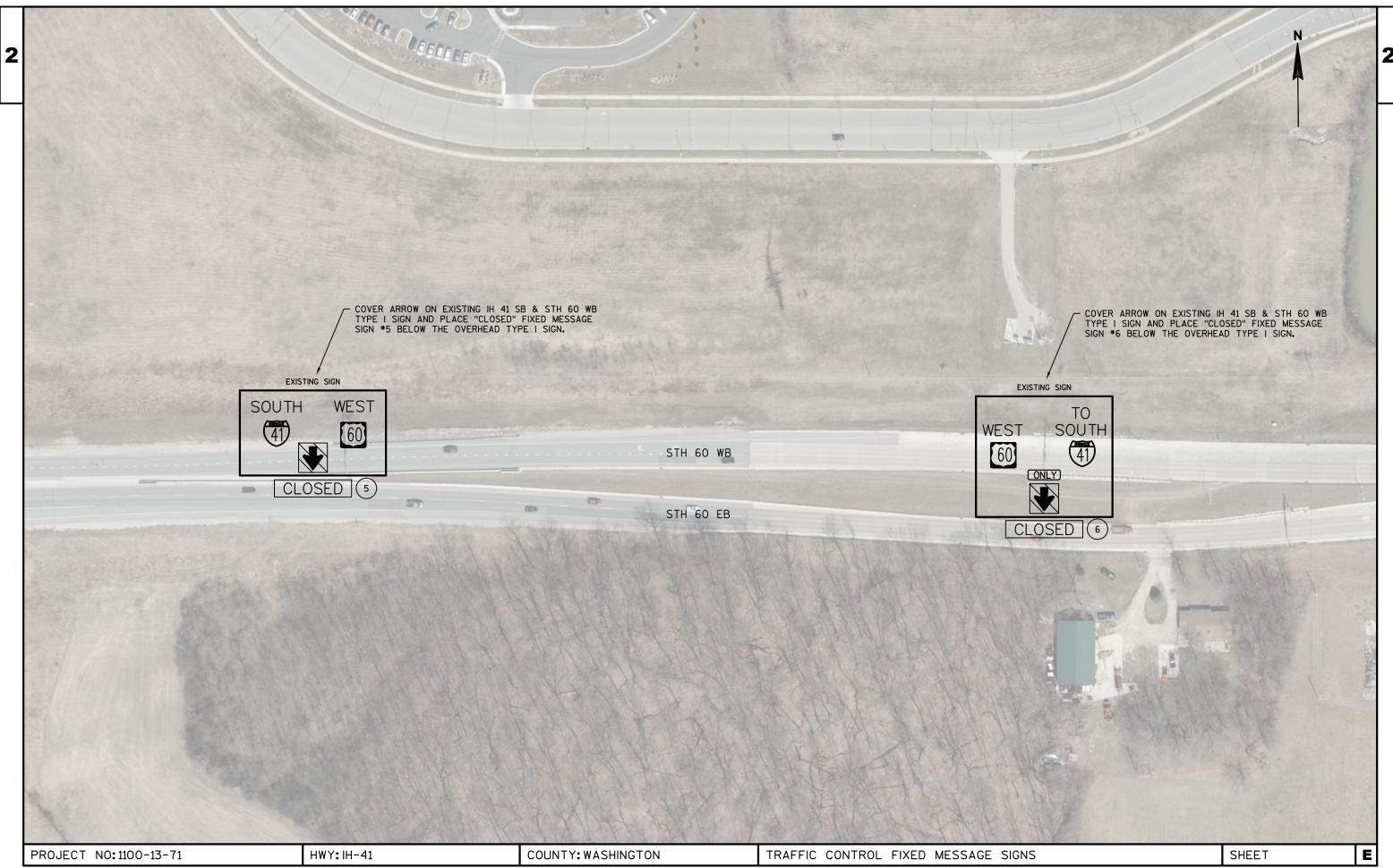


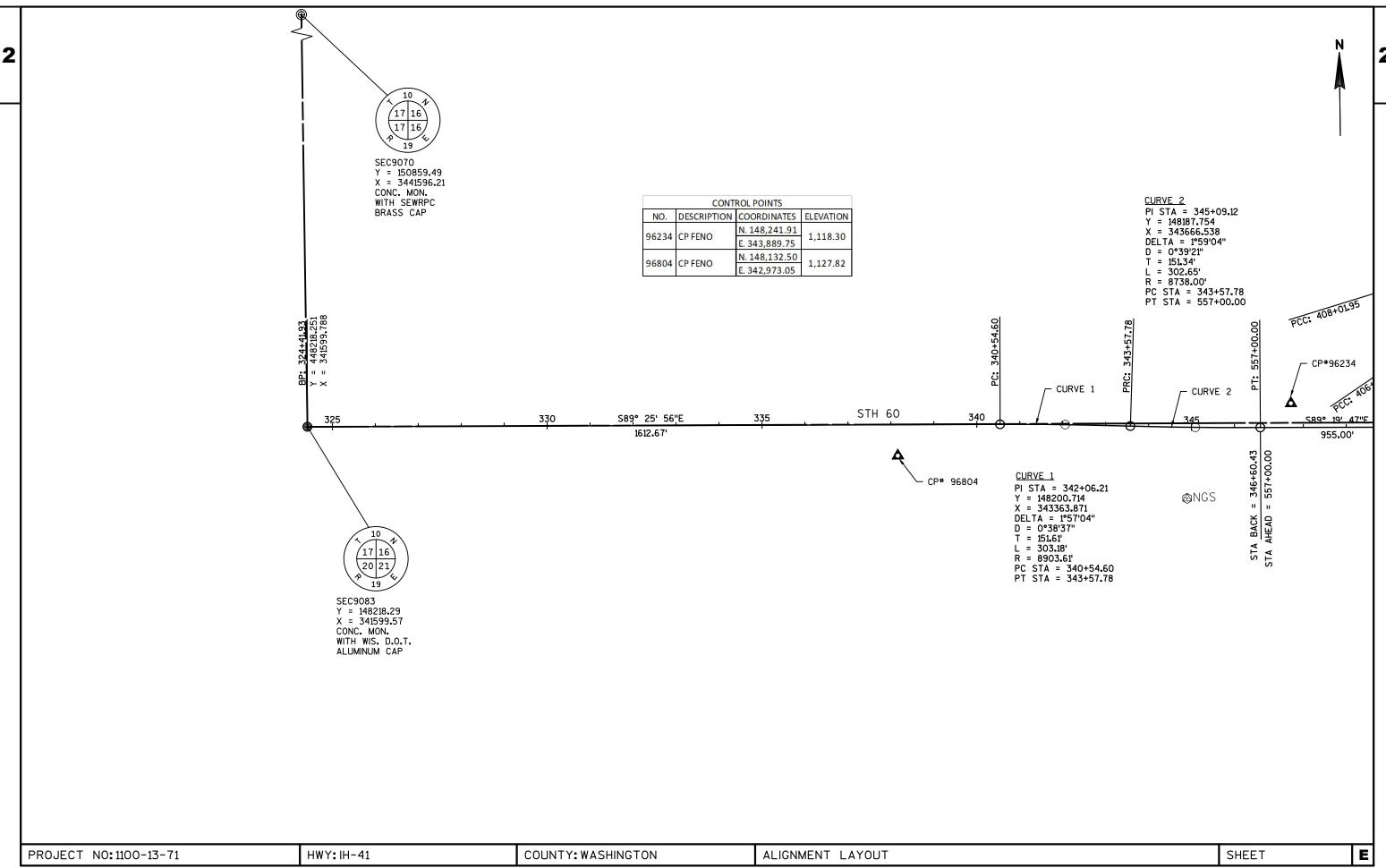


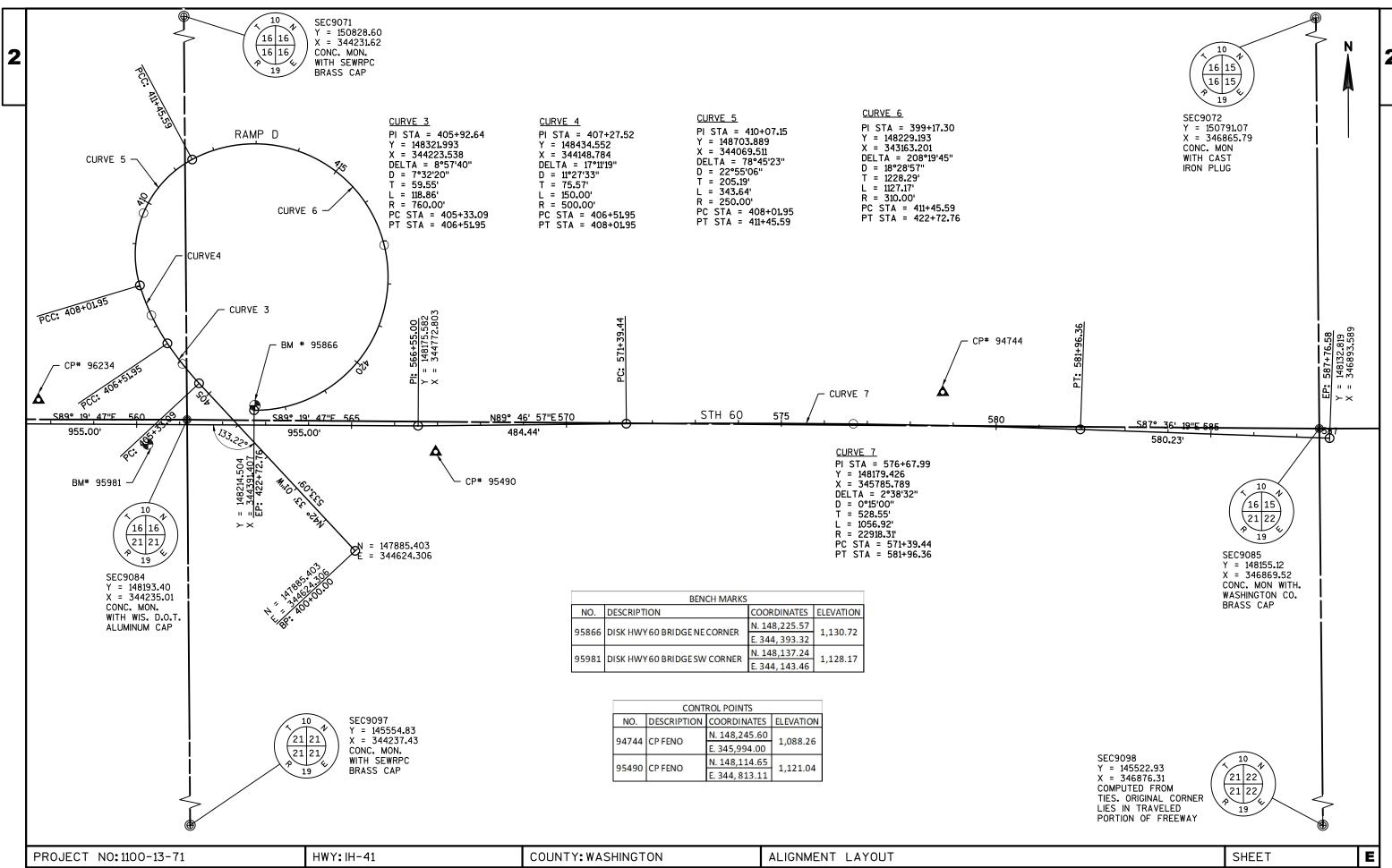












Estimate Of Quantities By Plan Sets

					1100-13-71
Line	Item	Item Description	Unit	Total	Qty
0006	204.0165	Removing Guardrail	LF	125.000	125.000
0008	213.0100	Finishing Roadway (project) 01. 1100-13-71	EACH	1.000	1.000
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	12.000	12.000
0018	509.0301	Preparation Decks Type 1	SY	1.000	1.000
0020	509.1500	Concrete Surface Repair	SF	10.000	10.000
0022	509.2100.S	Concrete Masonry Deck Repair	CY	1.000	1.000
0022	509.5100.S	Polymer Overlay	SY	1,307.000	1,307.000
0032	614.0010	Barrier System Grading Shaping Finishing	EACH	1.000	1.000
0034	614.2300	MGS Guardrail 3	LF	62.500	62.500
0036	614.2610	MGS Guardrail Terminal EAT	EACH	1.000	1.000
0038	619.1000	Mobilization	EACH	0.330	0.330
0038	624.0100	Water	MGAL	0.330	0.330
0042	628.1504	Silt Fence		370.000	370.000
			LF EACH		
0046	628.1905	Mobilizations Erosion Control		1.000	1.000
0048	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0050	628.2002	Erosion Mat Class I Type A	SY	90.000	90.000
0052	628.7015	Inlet Protection Type C	EACH	3.000	3.000
0076	643.0300	Traffic Control Drums	DAY	730.000	730.000
0800	643.0420	Traffic Control Barricades Type III	DAY	80.000	80.000
0082	643.0705	Traffic Control Warning Lights Type A	DAY	160.000	160.000
0084	643.0715	Traffic Control Warning Lights Type C	DAY	125.000	125.000
0086	643.0800	Traffic Control Arrow Boards	DAY	10.000	10.000
0088	643.0900	Traffic Control Signs	DAY	1,180.000	1,180.000
0090	643.0910	Traffic Control Covering Signs Type I	EACH	5.000	5.000
0092	643.0920	Traffic Control Covering Signs Type II	EACH	1.000	1.000
0094	643.1000	Traffic Control Signs Fixed Message	SF	73.750	73.750
0096	643.1050	Traffic Control Signs PCMS	DAY	48.000	48.000
0098	643.5000	Traffic Control	EACH	0.330	0.330
0100	646.1020	Marking Line Epoxy 4-Inch	LF	6,008.000	6,008.000
0102	646.3020	Marking Line Epoxy 8-Inch	LF	70.000	70.000
0104	646.5020	Marking Arrow Epoxy	EACH	1.000	1.000
0106	646.5120	Marking Word Epoxy	EACH	1.000	1.000
0116	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	925.000	925.000
0120	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0122	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0124	SPV.0090	Special 01. Marking Line Contrast Epoxy 4-Inch	LF	129.000	129.000
0124	SPV.0090	Special 02. Marking Line Contrast Epoxy 8-Inch	LF	906.000	906.000
0128	SPV.0090	Special 03. MGS Thrie Beam Transition TL-2	LF	14.000	14.000
0120	SPV.0090 SPV.0090	Special 04. Sawing Pavement Deck Preparation Areas		10.000	10.000
			LF SV		
0132	SPV.0180	Special 01. Resin Binder High Friction Surface	SY	1,081.000	1,081.000

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02/21/2010	03.20.03

Estimate Of Quantities By Plan Sets

Page 2

1100-13-71

Treatment

2	
_5	

STATION TO STATION LOCATION 421+32 - 422+61 STH 60 WB	204. 0165 LF	; => =		STATI ON TO STAT 420+87 - 422-			614. 0010 BARRI ER SY GRADI NO SHAPI NO FI NI SHI N EACH	STEM GRADING EXCAVATION COMMON	GRADING SH. FOR INI SHAPING ANI TOPSOIL M SY 90	FORMATION D FINISHI	ONLY NG FOR BEA		628. 2002 EROSI ON MAT CLASS I TYPE A SY 90
STATI ON TO STATI ON LOCATI ON 420+87 - 422+61 STH 60 WB ON-		GREGATE 624. 0100 WATER MGAL 0. 1 0. 1	REMARKS AT GUARDRAII	=		421+32 - 421+87 -	422+51 S	OCATION TH 60 LOOP RAMP TH 60 LOOP RAMP TH 60 LOOP RAMP TOTAL 0010	614. 2300 MGS GUARDRAI L LF 62. 5	614 MGS GU 3 TERMI		SPV. 0090. 6 MGS THRIE E TRANSITION T LF 14	EAM
STH 60 WB ON RAMP	28. 1504 LF 370 370		PRO	MOBI LI ERO CON CATI ON EA	. 1905 ZATI ONS	CONTROL 628. 1910 MOBI LI ZATI O CMERGENCY EROS CONTROL EACH 1				<u>STAT1</u> 558+ 559+	NLET PROTEIN 10N LOCATI 14 1' RT 12 44' L' 190 31' L' TOTAL	1 T 1 T 1	7015 CH

TRAFI	FT C	CON	TRAI	

		643. 0	300	643. 0	0420	643.	0705	643.	0715	643. 0	800	643. 1	1050
				TRAF	FI C	TRAI	FFI C	TRA	FFI C	TRAF	FI C		
		TRAF	FI C	CONT	ROL	CONT	ΓROL	CON	ΓROL	CONT	ROL	TRAF	FIC
		CONT	ROL	BARRI (CADES	WAR	NI NG	WAR	NI NG	ARRO	OW	CONT	ROL
		DRU	MS	TYPE	III	LI GHTS	TYPE A	LI GHTS	TYPE C	BOAR	DS	SI GNS	PCMS
LOCATI ON	DAYS	EACH*	DAY	EACH*	DAY	EACH*	DAY	EACH*	DAY	EACH*	DAY	EACH*	DAY
BEFORE CONSTRUCTION	7	20	140	-	-	-	-	-	-	-	-	4	28
DURING CONSTRUCTION	5	118	590	16	80	32	160	25	125	2	10	4	20
TOTAL 0010			730		80		160		125		10		48

*FOR INFORMATION ONLY. ACTUAL NUMBER OF DEVICES TO BE DETERMINED IN THE FIELD BY THE ENGINEER

TRAFFIC CONTROL COVERING SIGNS TYPE I

643.0910

SI GN	LOCATI ON	NUMBER OF SIGNS	NUMBER OF CYCLES	EACH	REMARKS
JACKSON-HARTFORD 1 MILE	JUST PAST MILE MARKER 63	2	1	2	COVER "HARTFORD" & "-B"
STH 60 WB EXIT SIGN	JUST PAST MILE MARKER 64.2	1	1	1	COVER ARROW
IH 41 SOUTH/STH 60 WB OVERHEAD SIGNS	STH 60 WB	2	1	2	COVER ARROW
			T0TAL 0010	5	

TRAFFIC CONTROL SIGNS

				643. 0900				
SI GN CODE	SI GN MESSAGE	EACH*	DAYS*	DAY				
TRAFFI C SI GNS								
R11-2	ROAD CLOSED	1	5	5				
R11-2L	LANE CLOSED	6	5	30				
R11-2R	RAMP CLOSED	3	5	15				
W04-2L	MERGE RIGHT	2	5	10				
W20- 1A	ROAD WORK AHEAD	2	5	10				
W20-1F	ROAD WORK 1 MILE	2	5	10				
W20-53A	RAMP CLOSED AHEAD	2	5	10				
W20-53C	RAMP CLOSED 1000'	2	5	10				
W20-55B	LEFT LANE CLOSED 1500'	2	5	10				
W20-55G	LEFT LANE CLOSED 1/2 MI.	2	5	10				
W8-7	LOOSE GRAVEL	4	5	20				
G20-2A	END ROAD WORK	5	5	25				
G20-60	CLOSED	1	5	5				
G20-61	CLOSED	1	5	5				
DETOUR SIG	NS							
M1 - 1	IH 41	18	5	90				
M1 - 4	STH 60	30	5	150				
M3-3	SOUTH	18	5	90				
M3-4	WEST	30	5	150				
M4-8	DETOUR	48	5	240				
M4-8A	END DETOUR	1	5	5				
MO5-1L	LEFT AHEAD	8	5	40				
MO5-1R	RI GHT AHEAD	6	5	30				
MO5-2R	SLIGHT RIGHT AHEAD	6	5	30				
MO6-1	STRAIGHT, LEFT, OR RIGHT	22	5	110				
M06-2	SLIGHT RIGHT	6	5	30				
W20-2A	DETOUR AHEAD	4	5	20				
W20-3A	ROAD CLOSED AHEAD	2	5	10				
W20-3D	ROAD CLOSED 500'	2	5	10				
		TOTA	L 0010	1180				

*FOR INFORMATION ONLY

TRAFFIC CONTROL COVERING SIGNS TYPE II

SI GN

643. 0920 NUMBER OF NUMBER OF LOCATI ON CYCLES EACH SI GNS EXIT 64B SIGN AT MILE MARKER 64.4

TOTAL 0010

TRAFFIC CONTROL SIGNS FIXED MESSAGE

643. 1000 SIGN # MESSAGE LOCATION SF REMARKS **EAST** JUST PAST MILE MARKER 61 6.75 PLACE TO THE RIGHT OF STH 60 SYMBOL PLACE OVER "SECOND RIGHT" EXIT 66 JUST PAST MILE MARKER 63.2 EXIT 66 JUST BEFORE MILE MARKER 63.4 20 PLACE OVER "EXIT 64B" EXIT 66 JUST PAST MILE MARKER 63.8 20 PLACE OVER "SECOND RIGHT" CLOSED STH 60 WB BELOW TYPE I SIGN 3. 5 CLOSED STH 60 WB BELOW TYPE I SIGN 3. 5

TOTAL 0010 73. 75

PROJECT NO: 1100-13-71	HWY: IH-41	SHINGTON	MISCELLANEOUS QUANTITIES			SHEET:	
FILE NAME :		PLOT DATE :	PLOT BY :	PLOT NAME :	PLOT SCALE : 1:1		

3

PAVEMENT MARKING

		646. 1020	646. 3020	646. 5020	646. 5120	*	*	SPV. 0090. 01	SPV. 0090. 02	
		MARKI NG	MARKI NG	MARKI NG	MARKI NG	MARKI NG	MARKI NG	MARKING LINE	MARKING LINE	
		LI NE EPOXY	LI NE EPOXY	ARROW	WORD	REMOVAL	REMOVAL	CONTRAST	CONTRAST	
		4- I NCH	8- I NCH	EPOXY	EPOXY	LINE 4-INCH	LINE 8-INCH	EPOXY 4-INCH	EPOXY 8-INCH	
STATION TO STATION	LOCATI ON	LF	LF	EACH	EACH	LF	LF	LF	LF	REMARKS
BEFORE OPENING TO T	RAFFI C									
559+46 - 419+00	OUTSIDE EDGE LINE - RAMP TO BRIDGE	700	-	-	-	700	-	-	-	WHI TE
559+58 - 561+00	LANE LINE SKIPS - STH 60	-	-	-	-	36	-	36	-	WHI TE
561+00 - 564+38	CHANNELIZING LINE - RAMP TO BRIDGE	-	-	-	-	-	338	-	338	WHI TE
564+38 - 565+00	OUTSIDE EDGE LINE - STH 60	62	-	-	-	62	-	-	-	WHI TE
_559+70 - 565+00	INSIDE EDGE LINE - STH 60	530	-	-	=	530	-	-	-	YELLOW
419+00 - 421+14	INSIDE EDGE LINE - RAMP	225	-	-	-	225	-	-	-	YELLOW
421+14 - 422+23	CHANNELIZING LINE - RAMP	-	-	-	-	-	115	-	115	WHI TE
AFTER FINAL SWEEP										
557+27 - 407+00	OUTSIDE EDGE LINE - RAMP TO BRIDGE	2117	-	-	-	-	-	-	-	WHI TE
557+27 - 561+00	LANE LINE SKIPS - STH 60	-	-	-	-	-	-	93	-	WHI TE
561+00 - 564+38	CHANNELIZING LINE - RAMP TO BRIDGE	-	-	-	-	-	-	-	338	WHI TE
564+38 - 565+91	OUTSIDE EDGE LINE - STH 60	153	-	-	-	-	-	-	-	WHI TE
558+13 - 565+50	INSIDE EDGE LINE - STH 60	737	-	-	-	-	-	-	-	YELLOW
418+00 - 407+00	INSIDE EDGE LINE - RAMP	1484	-	-	-	-	-	-	-	YELLOW
421+14 - 422+23	CHANNELIZING LINE - RAMP	-	-	-	-	-	-	-	115	WHI TE
558+14 - 558+84	LEFT TURN LANE TO IH 41 SOUTH	-	70	1	1	-	-	-	-	WHI TE
	TOTAL 0010	6008	70	1	1	1553	453	129	906	

*FOR INFORMATION ONLY. PAID FOR INCIDENTAL TO RESIN BINDER HIGH FRICTION SURFACE TREATMENT

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH

RESIN BINDER HIGH FRICTION
SURFACE TREATMENT

SHEET:

Standard Detail Drawing List

08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
14B42-05A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14D42-05D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-03A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-18A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C31-02C	PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D16-03	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

TYPICAL APPLICATION OF SILT FENCE

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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

S.D.D. 8 E 9-6





INLET PROTECTION, TYPE A

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- (2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02

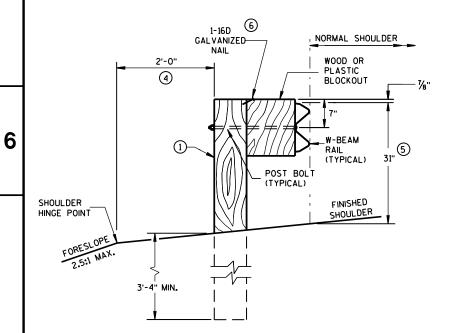
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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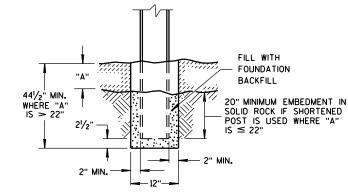
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- 2 USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ 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).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 273/4" TO 32".
- (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.

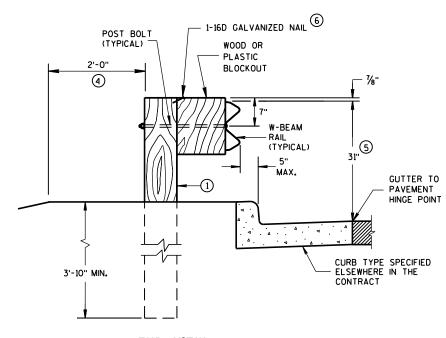


END VIEW

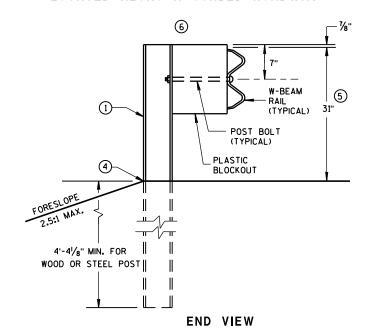
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



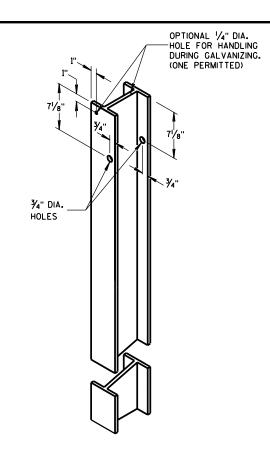
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



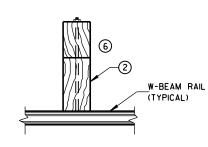
END VIEW
LOCATED ALONG A CURBED ROADWAY



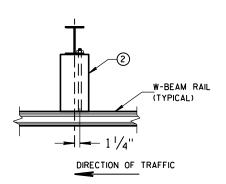
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



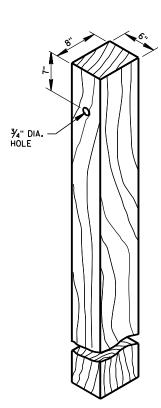
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



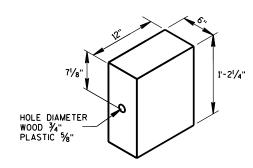
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



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



WOOD OR PLASTIC BLOCKOUT

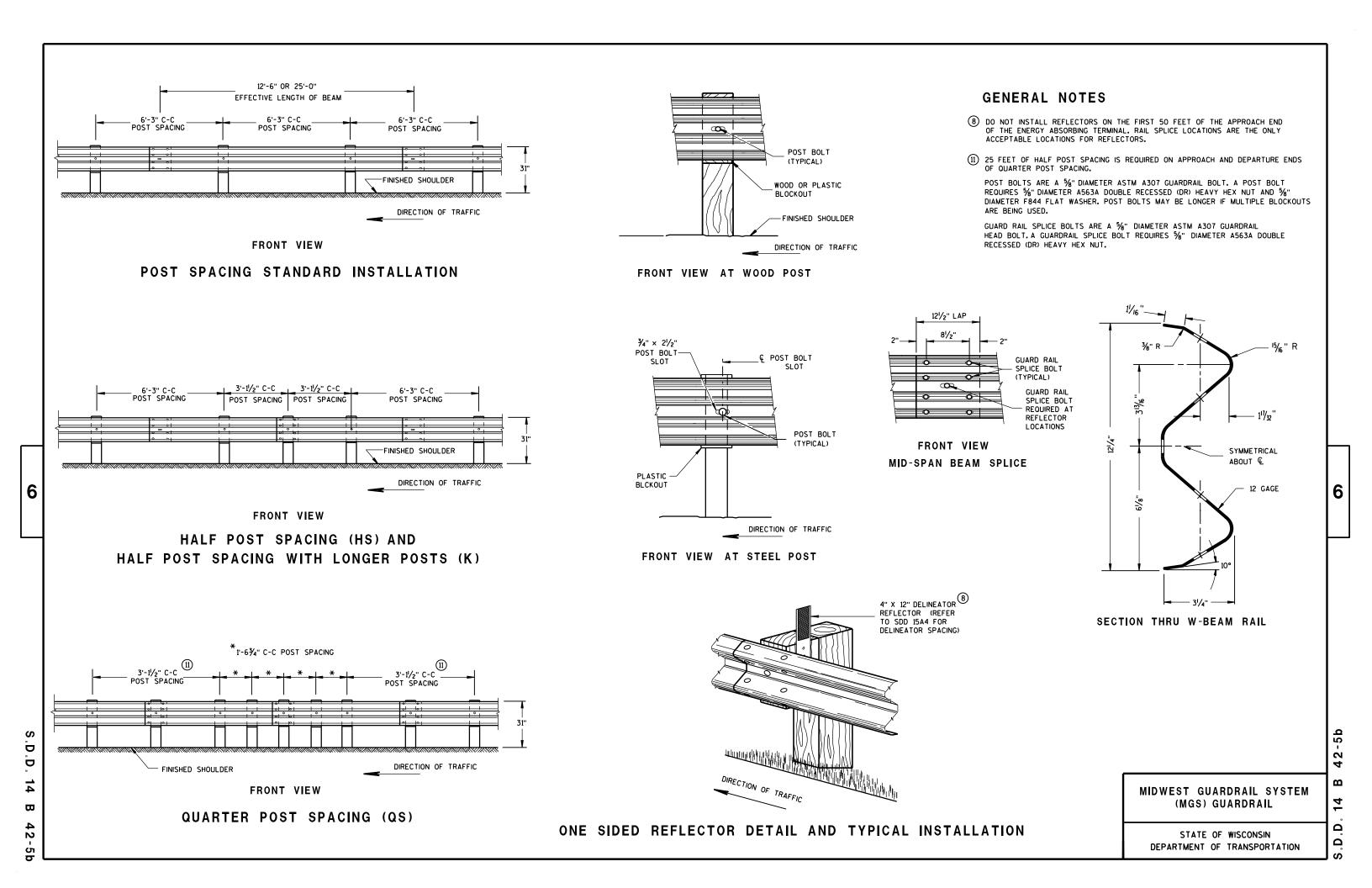
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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DEPARTMENT OF TRANSPORTATION

S.D.D. 14 B 42-5a

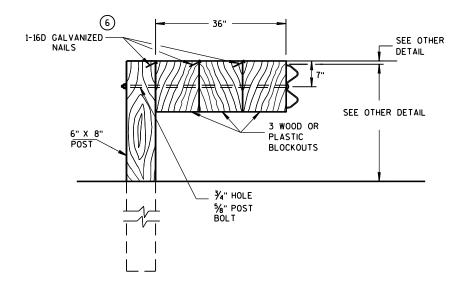
D.D. 14 B 4

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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.

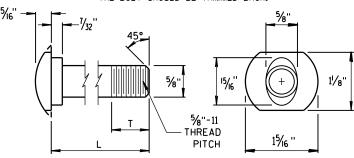


DETAIL FOR 36" BLOCKOUT DEPTH

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.

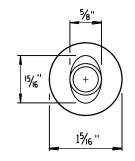
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{1}{16}$ ". 2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

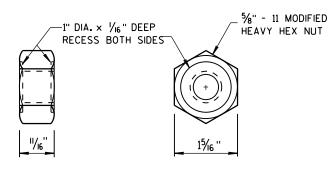


POST BOLT TABLE

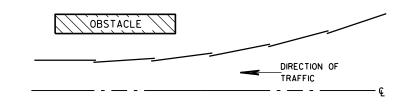
L	T (MIN.)
11/4"	11/8"
2"	13/4"
10"	4"
14"	4½ ₆ "
18"	4"
21"	4½ "
25"	4"
18"	4" 4½6"



ALTERNATE BOLT HEAD

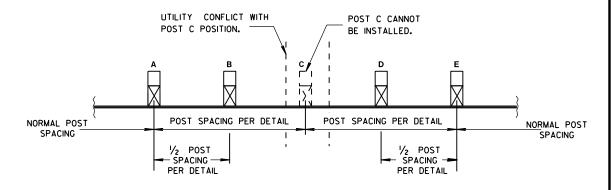


POST BOLT, SPLICE BOLT AND RECESS NUT

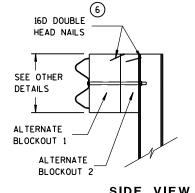


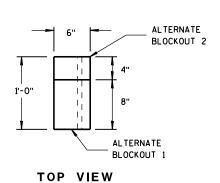
PLAN VIEW

BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

ALTERNATE WOOD **BLOCKOUT DETAIL**

> MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

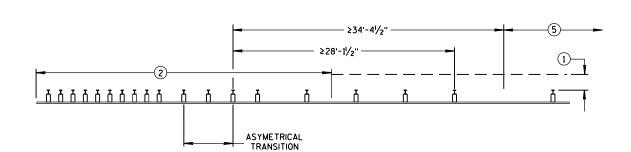
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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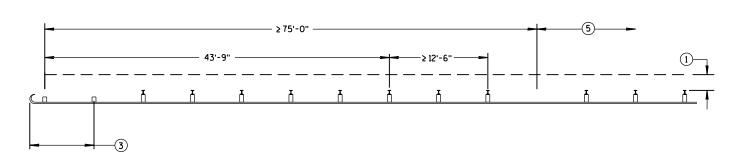
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MISSING POST IN NORMAL BEAM GUARD RUN

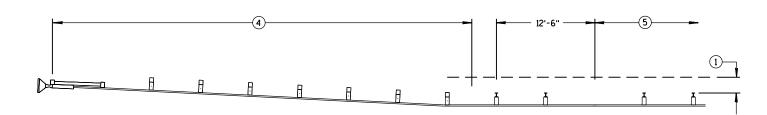


MISSING POST NEAR APPROACH THRIE BEAM TRANSITION

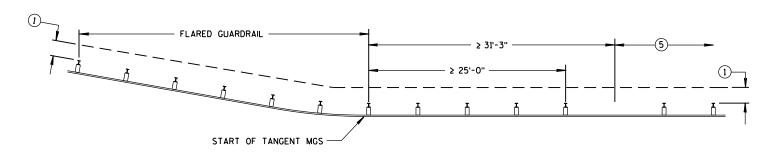


MISSING POST IN NORMAL BEAM GUARD RUN **NEAR TYPE 2 TERMINAL**

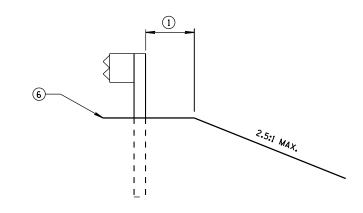
- 1 MINIMUM OF 2 FEET OF GRADING BEHIND POST.
- (2) SEE SDD 14B45 FOR MORE DETAILS.
- 3 SEE SDD 14B47 FOR MORE DETAILS.
- 4 SEE SDD 14B44 FOR MORE DETAILS.
- 5 SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.
- 6 SEE PLAN FOR SHOULDER DESIGN.



MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



MISSING POST IN NORMAL BEAM GUARD RUN NEAR FLARED BEAM GUARD



CROSS SECTION VIEW

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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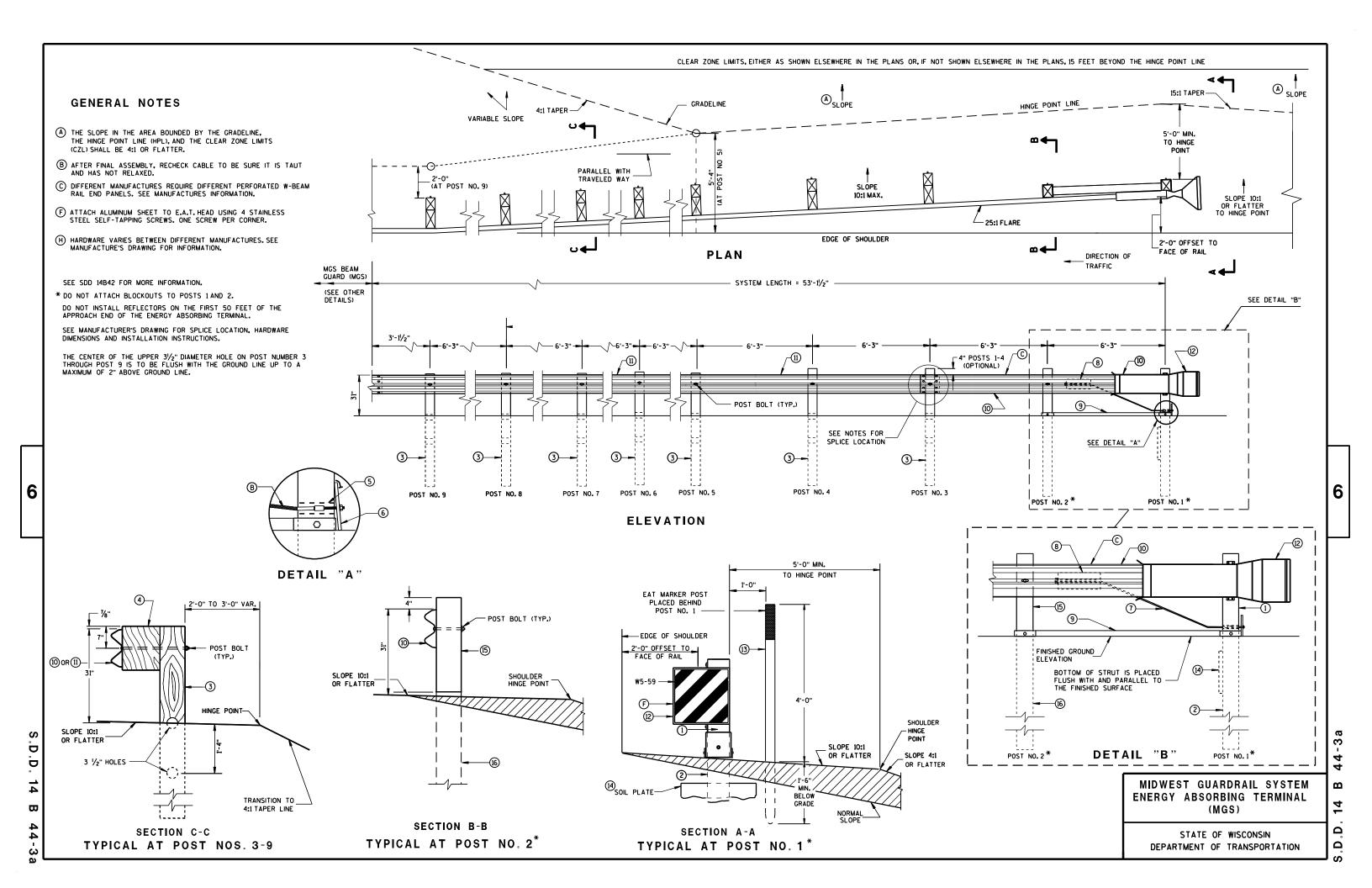
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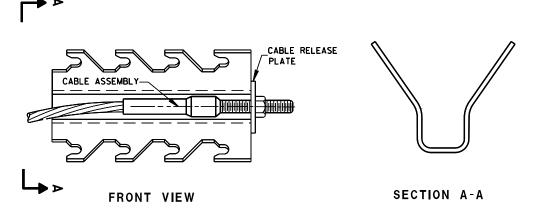
PPROVED	
June 2017	/S/ Rodney T
DATE	

ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

6



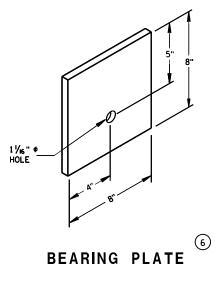
9 H GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX

BILL OF MATERIALS

PART	DESCRIPTION
NO.	MATERIALS PROVIDED BY MGS EAT MANUFACTURER.
	SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
1	UPPER POST NO.1 6" X 6" TUBE
2	LOWER POST NO.1
3	WOOD CRT
4	WOOD BLOCKOUT
(5)	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
12	IMPACT HEAD
(13)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
(14)	SOIL PLATE
(15)	UPPER POST NO. 2
(16)	LOWER POST NO. 2



MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

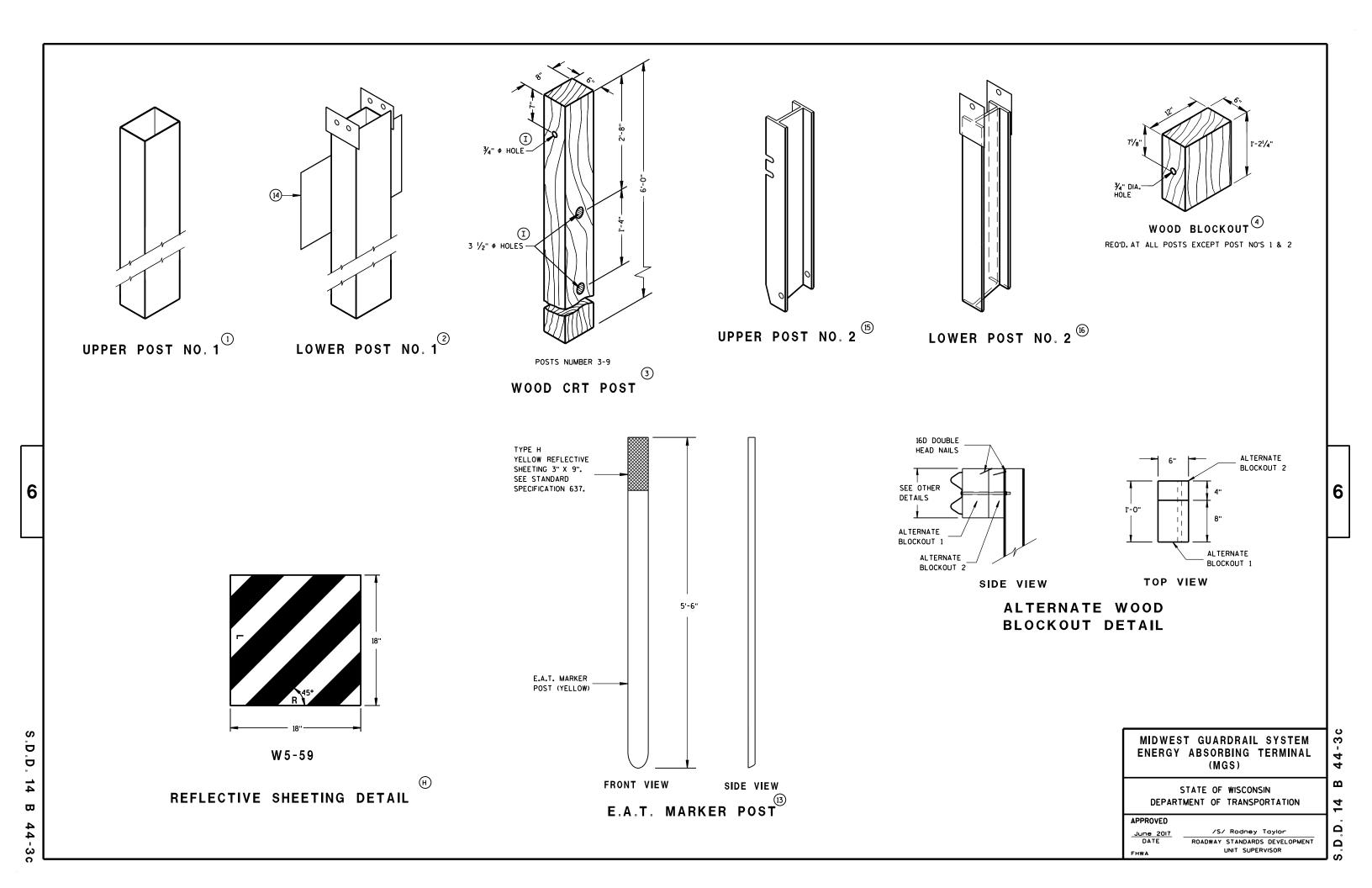
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ROAD CLOSURE BARRICADE DETAIL

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

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE 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, 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". (30" X 15" 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
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- 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.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

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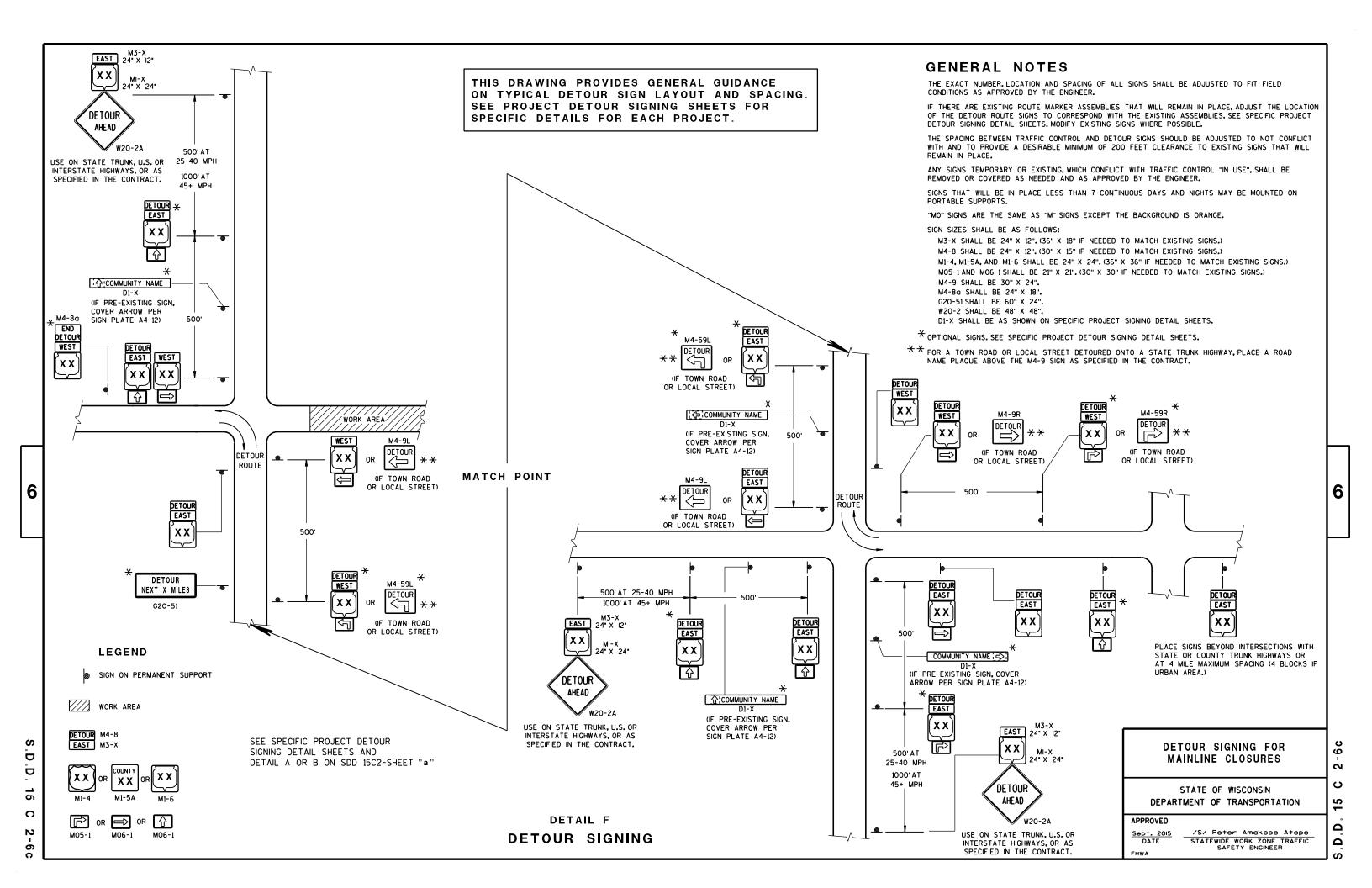
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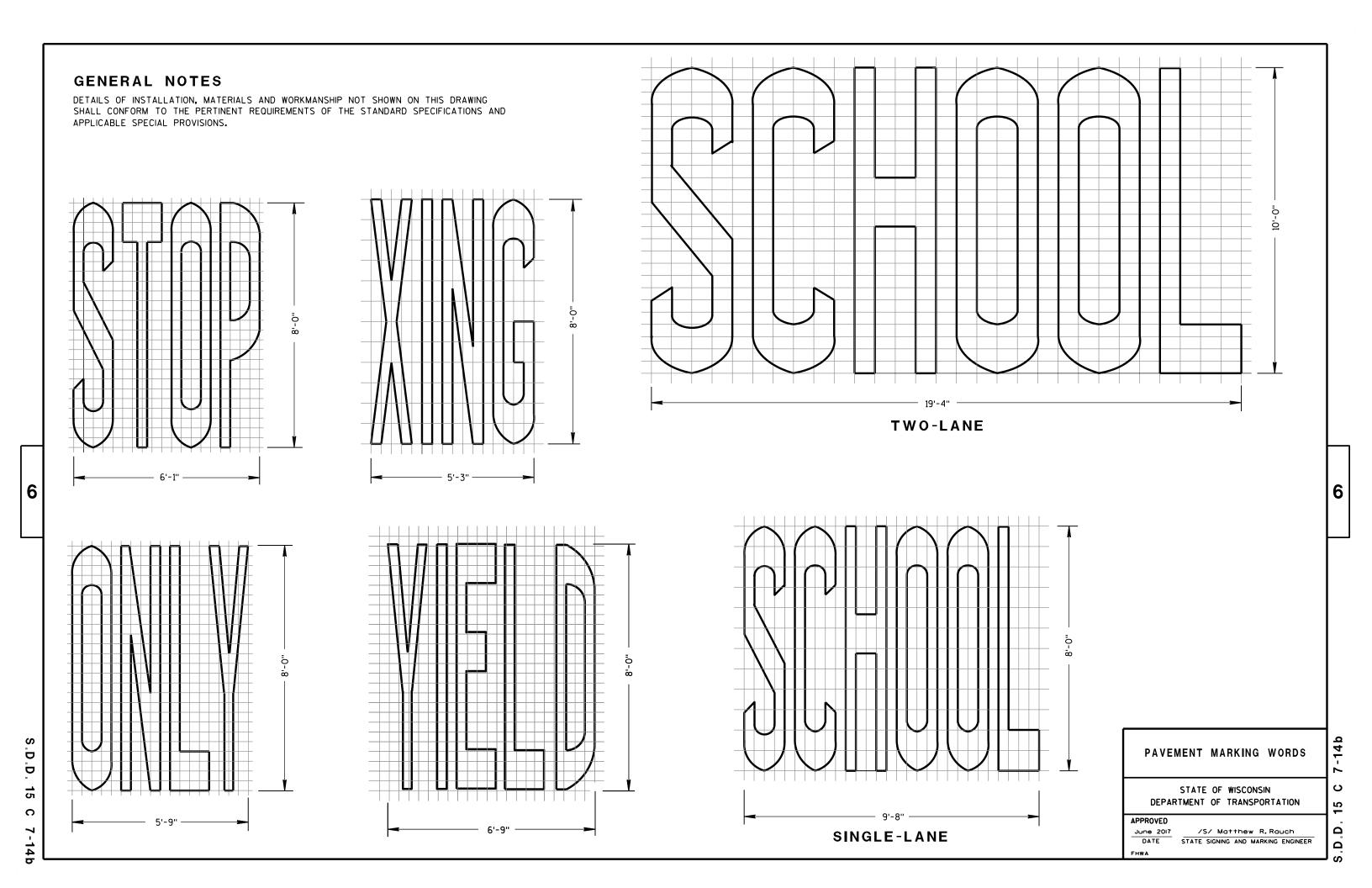
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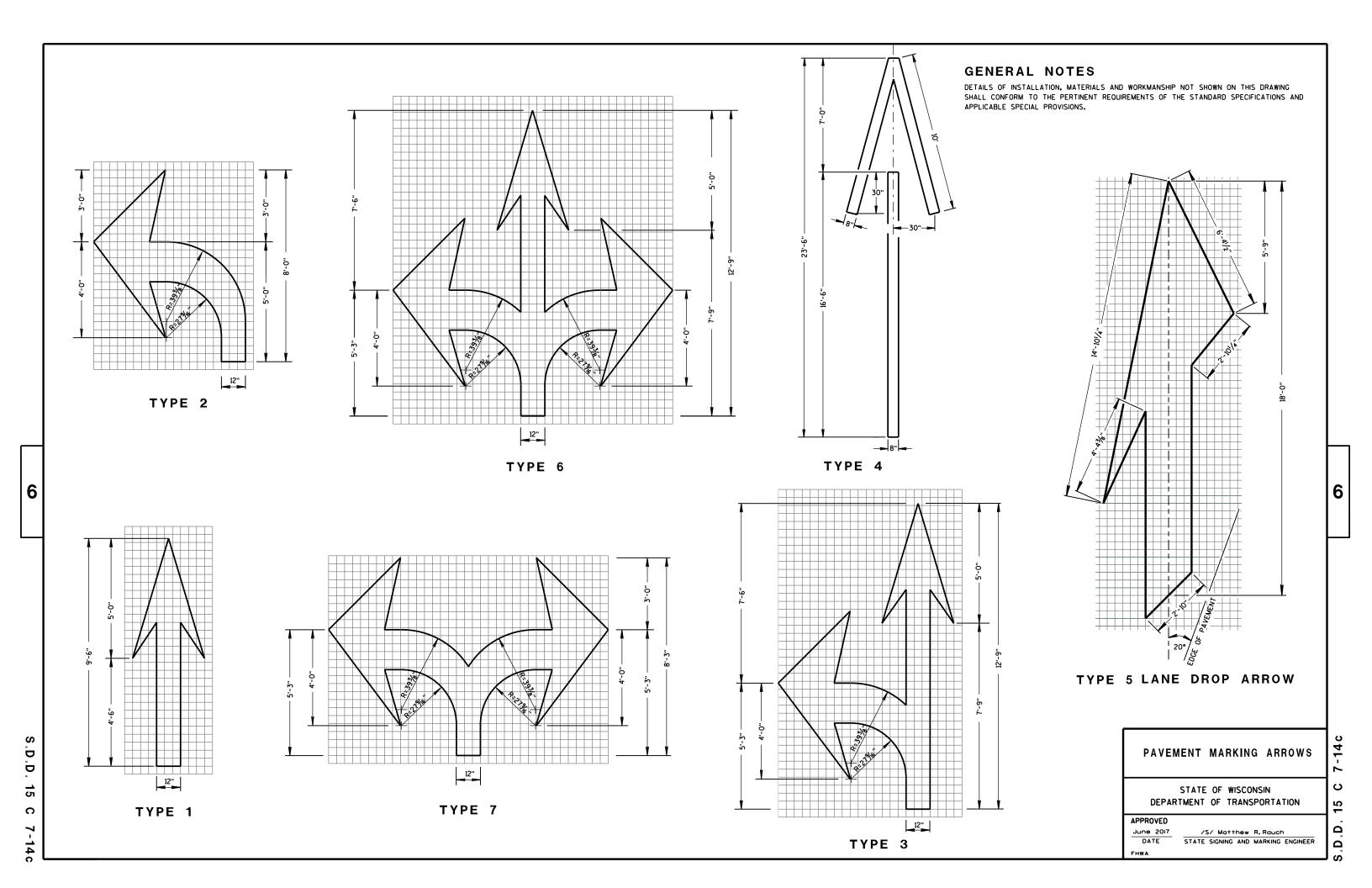
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

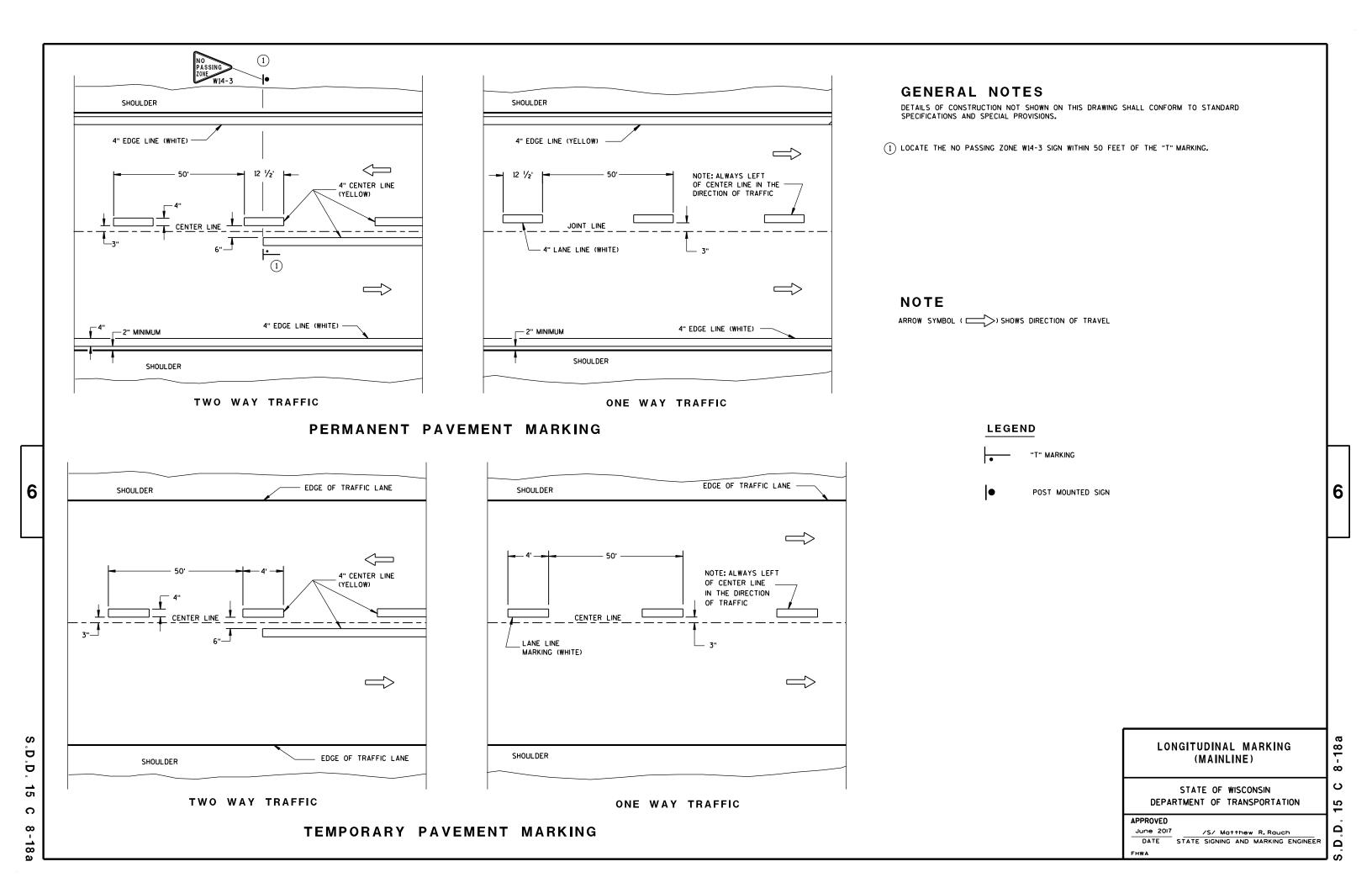
/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER





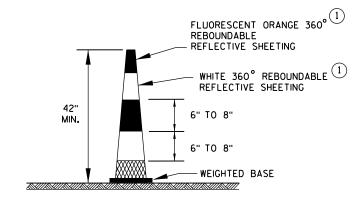




DRUM

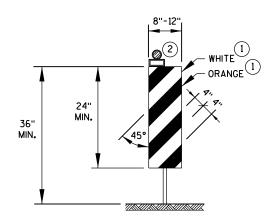
TYPE 2 BARRICADE

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



42" CONE

DO NOT USE IN TAPERS 1/2 SPACING OF DRUMS

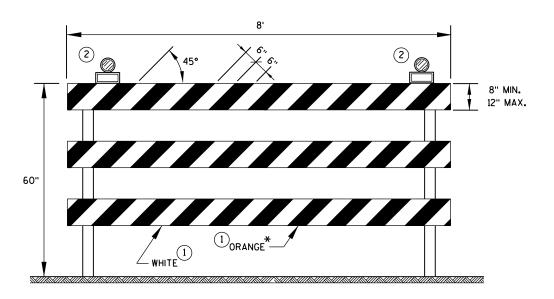


VERTICAL PANEL

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

GENERAL NOTES

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



TYPE 3 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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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APPROVED

June 2017
DATE

WORK ZONE ENGINEER
FHWA

S.D.D. 15 C 1

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STOP/SLOW PADDLE ON SUPPORT STAFF

5' MIN.

WORK

AHEAD

48" X 24"

END ROAD WORK G20-2A

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W20-1A

GENERAL NOTES

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT. REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

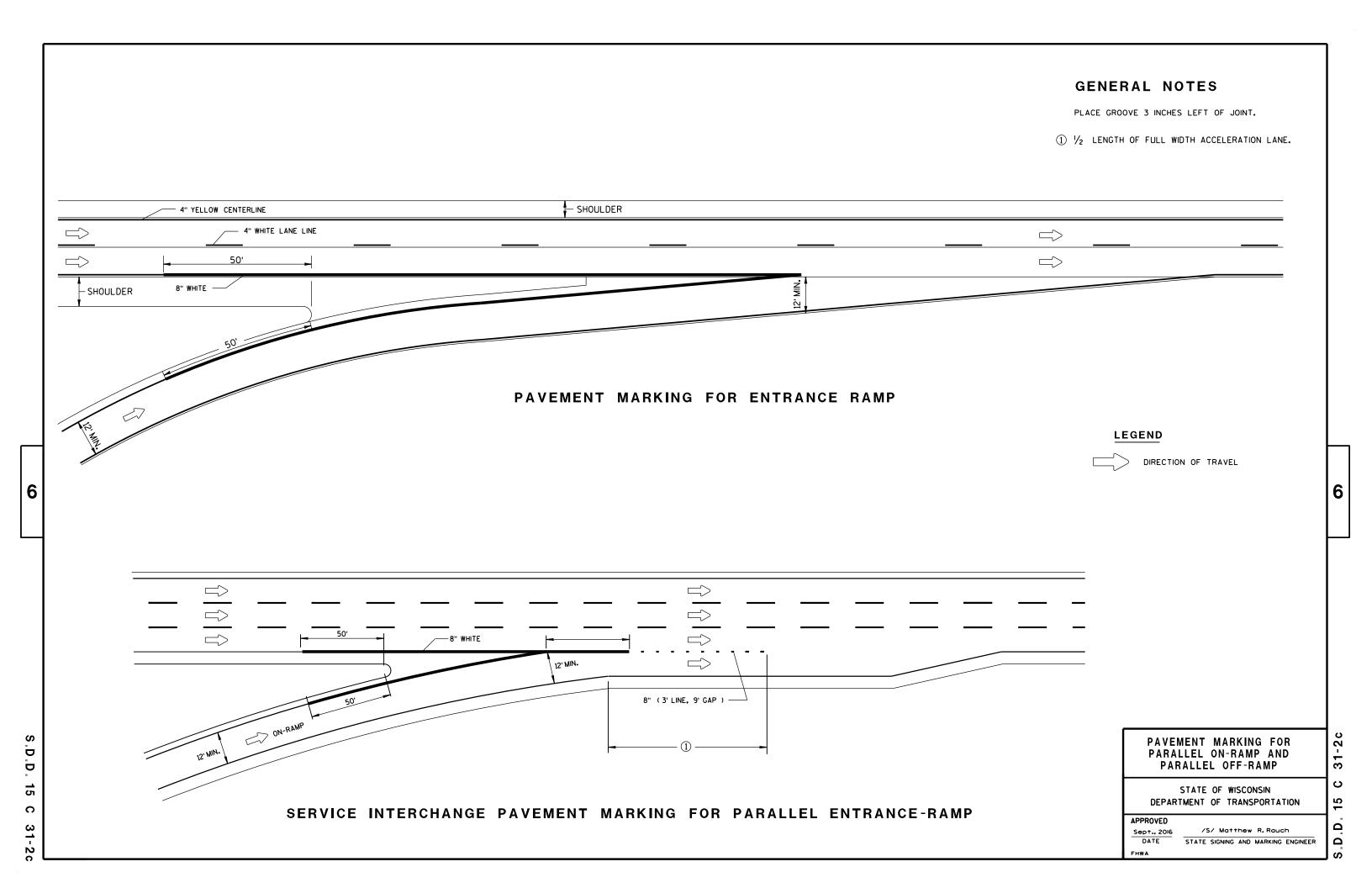
- 1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

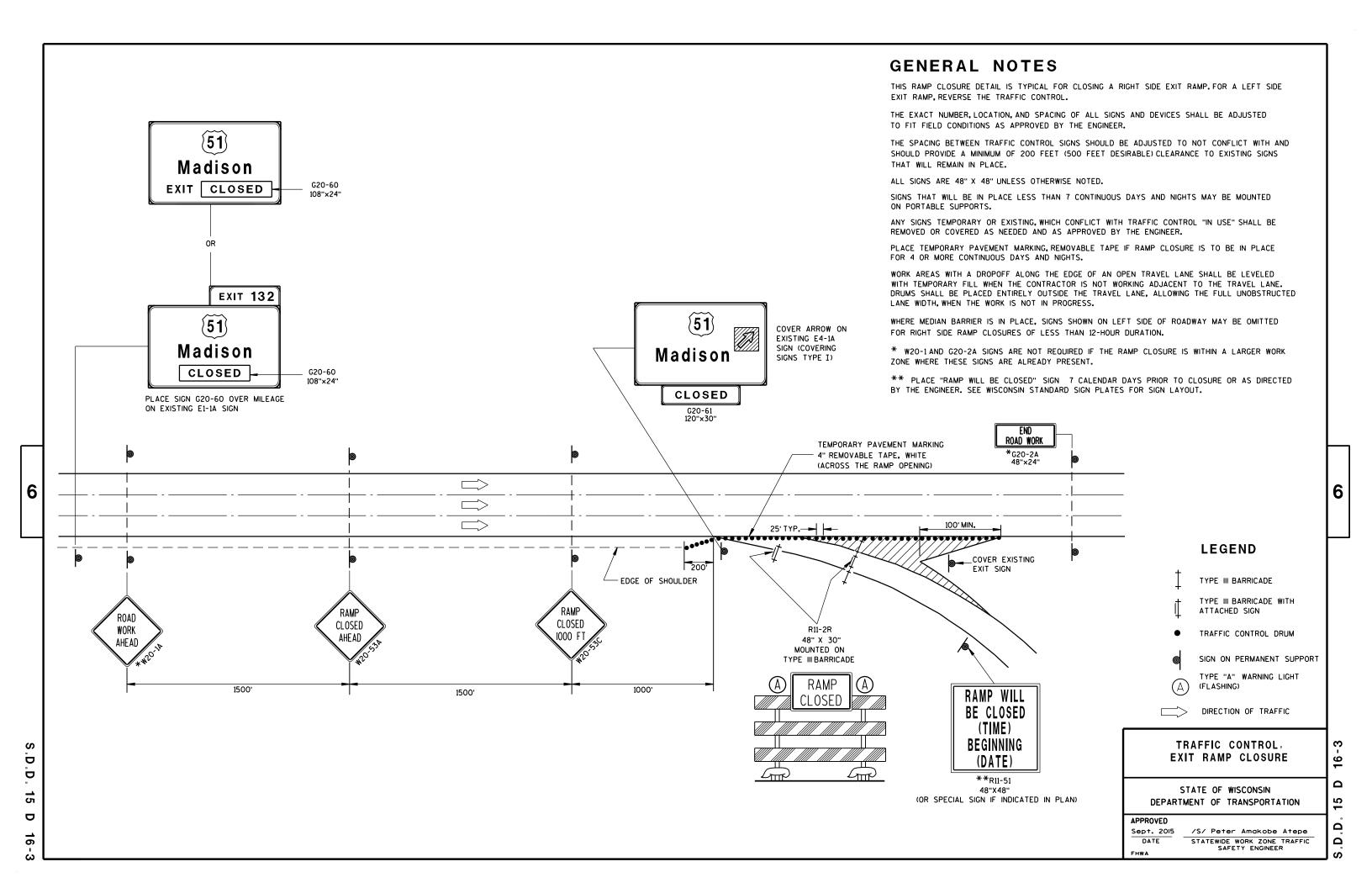
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

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GENERAL NOTES LEGEND THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. 4 OR MORE DAYS AND NIGHTS. TYPE III BARRICADE WITH ATTACHED SIGN THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION. SIGN ON PERMENENT SUPPORT IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING DELINEATION. THE DEVICE SPACING MAY BE DECREASED TO 50 FEET. LEFT LANE. TRAFFIC CONTROL DRUM ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST FLASHING ARROW BOARD "WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE. MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" TYPE "A" WARNING LIGHT (FLASHING) THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS. * X -X REMOVING PAVEMENT MARKING CROSSOVER MANEUVER. CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS * THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL. DIRECTION OF TRAFFIC 1500 FEET IN FRONT OF DRUMS. FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS. THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS. 6 6 WORK CLOSED CLOSED I MILE 1500 F XX м.Р.н 36"×36" IF NEEDED. USE ONLY TYPE III BARRICADE IF DESIGN SPEED IS TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE SPACED EVERY 1/4 MILE. 10 MPH BELOW 4-INCH EDGELINE (WHITE ON RIGHT, YELLOW ON LEFT) POSTED SPEED. 100' \Rightarrow \Rightarrow \Longrightarrow WORK AREA 50' L/2 500' MIN. - 800' DESIRABLE 575 L. TAPER 500 50 MPH - 600' 55 MPH - 660' 2600' 1600' 1000' 60 MPH - 720' TRAFFIC CONTROL, 9 65 MPH - 780' D 70 MPH - 840' LANE CLOSURE 5 DRUMS SPACED @ 10' INTERVALS AS 2 Ö NEEDED IN FRONT OF ARROW BOARD 15 Δ STATE OF WISCONSIN ADVANCED WARNING AREA TRANSITION AREA BUFFER SPACE DEPARTMENT OF TRANSPORTATION D **APPROVED** /S/ Peter Amakobe Atepe 2 March 2016 STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER Ω 6 FHWA





TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF		
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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

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

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

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

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 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

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

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 /S/ Andrew Heidtke DATE WORK ZONE ENGINEER FHWA

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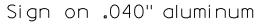
38-2b

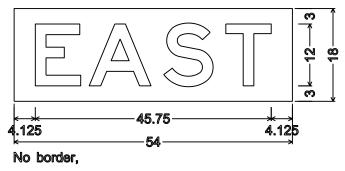
- 1. Fixed Message Type II Signs Type F Reflective
- 2. Color:

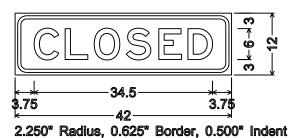
Background - Orange

Message - Black

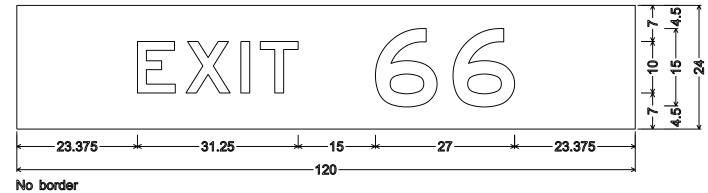
- 3. Message Series E
- 4. Signs without borders base material is .040" aluminum







Sign on .040" aluminum



PROJECT NO: 1100-13-71

HWY: IH 41

COUNTY: WASHINGTON

TEMPORARY SIGNING

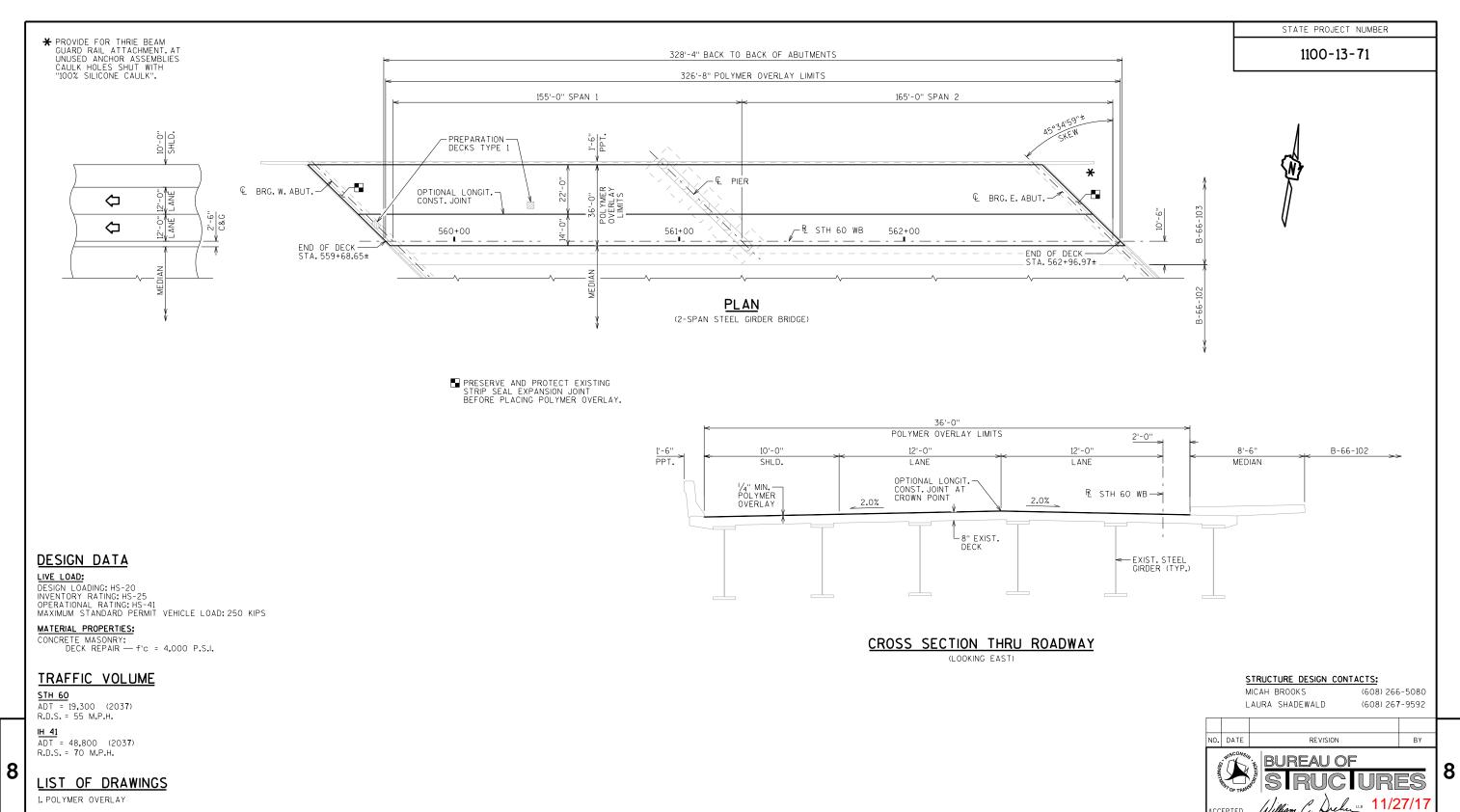
SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_d2\Exit66.DGN

PLOT DATE: 02-MAR-2017 14:15

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

PLOT SCALE: 18.622088:1.000000



TOTAL ESTIMATED OUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509.0301	PREPARATION DECKS TYPE 1	SY	1
509.1500	CONCRETE SURFACE REPAIR	SF	10
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	1
509.5100.S	POLYMER OVERLAY	SY	1,307
SPV.0090	SAWING PAVEMENT DECK PREPARATION AREAS	LF	10

GENERAL NOTES

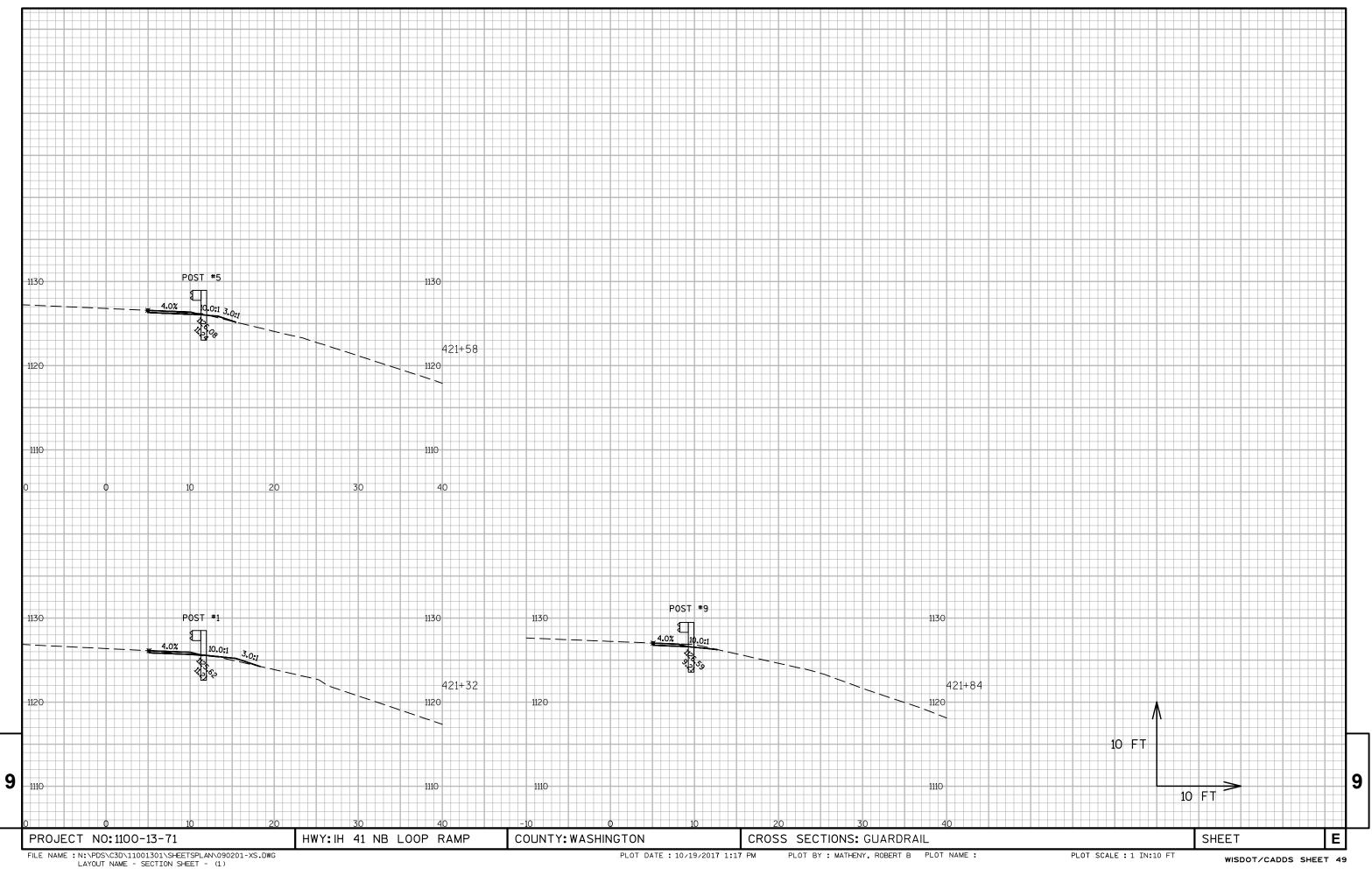
DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "POLYMER OVERLAY".

AREAS OF "PREPARATION DECKS TYPE 1" AND "CONCRETE SURFACE REPAIR" ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. REPAIRED AREAS SHALL BE FILLED WITH "CONCRETE MASONRY DECK REPAIR."



Notes



Wisconsin Department of Transportation

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http://www.dot.wisconsin.gov

Section No. 3

Section No. 4 Right of Way Plat Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings

Section No. 9 Computer Earthwork Data

Section No. 7 Sign Plates

TOTAL SHEETS = 68

Section No. 9 Cross Sections

APRIL 2018 STATE OF WISCONSIN ORDER OF SHEETS Section No. 1 DEPARTMENT OF TRANSPORTATION Section No. 2 Typical Sections and Details Estimate of Quantities Section No. 3

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 2290-08-71 WISC 2018193

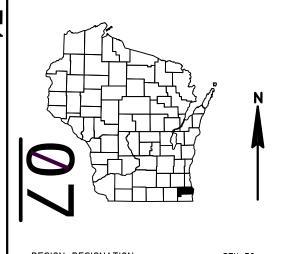
PLAN OF PROPOSED IMPROVEMENT

STH 38

INTERSECTION WITH CTH K

RACINE COUNTY

STATE PROJECT NUMBER 2290-08-71

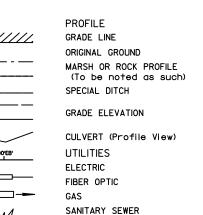


DESIGN DESIGNATION			NC		<u>STH 38</u>	<u>STH 38</u>	
				CTH K	NORTH LEG	EAST LEG	
	A.A.D.T.	2016	=	10,000	6,850	14,600	
	A.A.D.T.		=				
	D.H.V.		=				
	D.D.		=				
	Т.		=	5.3%	5.3%	5.3%	
	DESIGN SPEED)	=	50 MPH	50 MPH	50 MPH	
	ESALS		=				

Miscellaneous Quantities

CONVENTIONAL SYMBOLS

PLAN CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS MARSH AREA



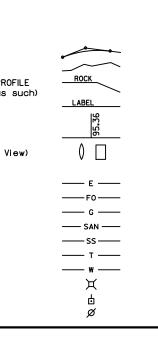
STORM SEWER

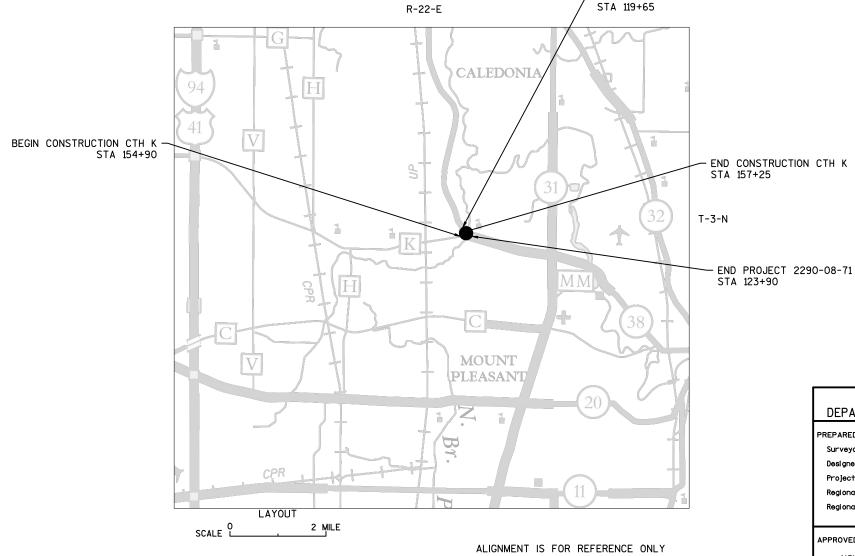
UTILITY PEDESTAL

TELEPHONE POLE

TELEPHONE

POWER POLE





BEGIN PROJECT 2290-08-71

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY WISDOT Surveyor MALATHI KARRI JUSTIN SUYDAM Project Manager RICHARD HERRICK JANET CANNON

APPROVED FOR THE DEPARTMENT

DATE: NOVEMBER 1, 2017

TOTAL NET LENGTH OF CENTERLINE = 0.080 MILES

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WOODED OR SHRUB AREA

STANDARD ABBREVIATIONS AADT ANNUAL AVERAGE DAILY TRAFFIC BM BENCHMARK **BMP BEST MANAGEMENT PRACTICE** C/L CENTERLINE CONC CONCRETE CTH **COUNTY TRUNK HIGHWAY** CY **CUBIC YARD** D DEGREE OF CURVE DHV **DESIGN HOUR VOLUME** DIA DIAMETER DD **DIRECTIONAL DISTRIBUTION** Χ EAST GRID COORDINATE EB **EASTBOUND ESALS EQUIVALENT SINGLE AXLE LOADS** FT **FOOT** INL INLET LT LEFT LENGTH OF CURVE LF LINEAR FOOT LS **LUMP SUM** MGR MANAGER MH MANHOLE Ν NORTH NORTH GRID COORDINATE NB NORTHBOUND PAVT **PAVEMENT** PT POINT

PCC POINT OF COMPOUND CURVE PC POINT OF CURVATURE Ы POINT OF INTERSECTION PRC POINT OF REVERSE CURVATURE PT POINT OF TANGENCY PROJ **PROJECT** R **RADIUS** SB SOUTHBOUND SY **SQUARE YARD** STANDARD DETAIL DRAWING SDD

STH STATE TRUNK HIGHWAY STA STATION **TANGENT** TRUCKS (PERCENT OF) VAR VARIABLE WB WESTBOUND

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES TYPICAL SECTIONS CONSTRUCTION DETAIL PLAN DETAIL UTILITY DETAIL **EROSION CONTROL** PAVEMENT MARKING TRAFFIC CONTROL AND DETOUR

PROJECT CONTACT:

JUSTIN SUYDAM, P.E. WISDOT PROJECT MANAGER 141 NW BARSTOW STREET WAUKESHA, WI 53187 PHONE: (262) 548-8745 CELL: (414) 750-1877 JUSTIN.SUYDAM@DOT.WI.GOV

HIGHWAY MAINTENANCE CONTACTS:

PAUL AMBROSE MAINTENANCE PROGRAM ENGINEER 141 NW BARSTOW ST WAUKESHA, WI 53188 PHONE: (414) 750-0658 PAUL.AMBROSE@DOT.WI.GOV

GAIL LANTZ AREA MAINTENANCE COORDINATOR FOR **RACINE COUNTY** 141 NW BARSTOW ST WAUKESHA, WI 53188 PHONE: (414) 750-0994 GAIL.LANTZ@DOT.WI.GOV

DNR CONTACT:

KRISTINA BETZOLD **ENVIRONMENTAL ANALYSIS & REVIEW SPECIALIST** 2300 N. DR. MARTIN LUTHER KING JR. DRIVE MILWAUKEE, WI 53212 PHONE: (414) 263-8517 KRISTINA.BETZOLD@WISCONSIN.GOV

UTILITY CONTACTS

MARK EDER AT&T WISCONSIN 2005 PEWAUKEE RD WAUKESHA, WI 53188-2443 (262) 896-7434 ME1754@ATT.COM

MARY FISHER WINDSTREAM KDL, LLC 13935 BISHOPS DR BROOKFIELD, WI 53005 (262) 792-7938 MARY.B.FISHER@WINDSTREAM.COM

NATHAN BECKER PAETEC COMMUNICATIONS, LLC 13935 BISHOPS DR **BROOKFIELD, WI 53005** (262) 792-7938 NATHAN.BECKER@WINDSTREAM.COM

BOB LUI VILLAGE OF CALEDONIA UTILITY DISTRICT 333 4 1/2 MILE ROAD RACINE, WI 53402 (262) 681-3900 BLUI@CALEDONIAWIUTILITY.COM

ERIC PEREA WISDOT STREET LIGHTING 141 NW BARSTOW STREET WAUKESHA, WI 53807-0798 (262) 574-5422 ERIC.PEREA@DOT.WI.GOV

GENERAL NOTES

THE LOCATIONS OF EXISTING UTILITIES, AS NOTED ON THE PLANS, ARE FOR INFORMATION ONLY. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPALITY OR PUBLIC AGENCY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPERATELY.

DIMENSIONS GIVEN FOR EXISTING FEATURES SHALL BE CONSIDERED AS APPROXIMATE AND MEASURED IN FIELD FOR MATCHING PURPOSES.

A SAWED JOINT IS REQUIRED WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. NO WORK MAY BEGIN UNTIL PROPER TRAFFIC CONTROL DEVICES ARE PLACED AND APPROVED BY THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR RESHAPING AND FINISHING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY THEIR OPERATION OUTSIDE THE NORMAL CONSTRUCTION LIMITS.

STEVEN CRAMER **CHARTER COMMUNICATIONS** 1320 N DR MARTIN LUTHER KING JR DR MILWAUKEE, WI 53212-4002 (414) 277-4045 WIS.ENGINEERING@CHARTER.COM

DAN SANDE WE ENERGIES GAS AND ELECTRIC 333 WEST EVERETT ST, ROOM A291 MILWAUKEE, WI 53203 (414) 221-4578 DAN.SANDE@WE-ENERGIES.COM

RICHARD TRGOVEC MIDWEST FIBER NETWORKS LLC 6070 NORTH FLINT RD GLENDALE, WI 53209 (414) 459-3554 RTRGOVEC@MIDWESTFIBERNETWORKS.COM

OTHER CONTACTS

DANIEL WARREN CHIEF OF POLICE, VILLAGE OF CALEDONIA 6900 NICHOLSON RD CALEDONIA, WI 53108 (262) 835-4423 DWARREN@CALEDONIAWIPD.COM

RICHARD ROEDER FIRE CHIEF, VILLAGE OF CALEDONIA 6900 NICHOLSON RD CALEDONIA, WI 53108 (262)835-2050 CFDSEC@CALEDONIAWIFD.COM

EROSION CONTROL GENERAL NOTES

EROSION CONTROL ITEMS ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN AND BY THE ENGINEER. EROSION CONTROL ITEMS SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE ITEM IS NO LONGER REQUIRED.

WHEN PERFORMING ROADWAY CLEANING OPERATIONS, THE CONTRACTOR SHALL USE EQUIPMENT HAVING VACUUM OR WATERSPRAY MECHANISM TO ELIMINATE THE DISPERSION OF DUST. IF VACUUM EQUIPMENT IS EMPLOYED, IT SHALL HAVE SUITABLE SELF-PARTICULATE COLLECTIONS TO PREVENT DISCHARGE FROM THE COLLECTION BIN INTO THE ATMOSPHERE.

INLET PROETECTION IS REQUIRED AT ALL INLETS AS PER DETAIL OR AS DIRECTED BY THE ENGINEER.

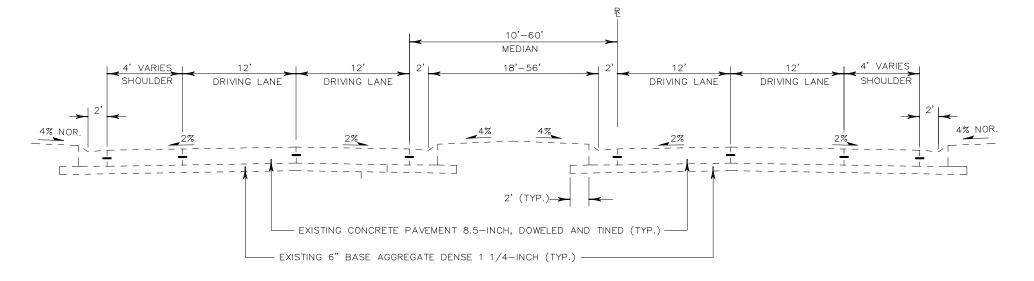
REFER TO EROSION CONTROL SPECIAL PROVISIONS FOR FURTHER REQUIREMENTS.

CONSTRUCTION LIMITS ARE 5 FEET OUTSIDE THE CURBLINE. NO SOIL OR LOOSE MATERIAL SHALL BE PLACED OUTSIDE THE LIMITS.

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

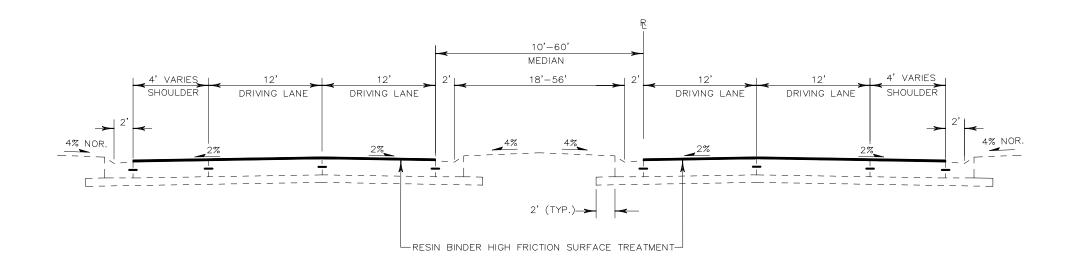
Ε **HWY: STH 38 COUNTY: RACINE GENERAL NOTES** SHEET: PROJECT NO: 2290-08-71 FILE NAME :

PLOT DATE : PLOT BY PLOT NAME PLOT SCALE: 1:1 2



EXISTING TYPICAL SECTION STH 38 & CTH K

STA. 122+25 - STA. 122+75 (STH 38) STA. 155+75 - STA. 156+25 (CTH K)



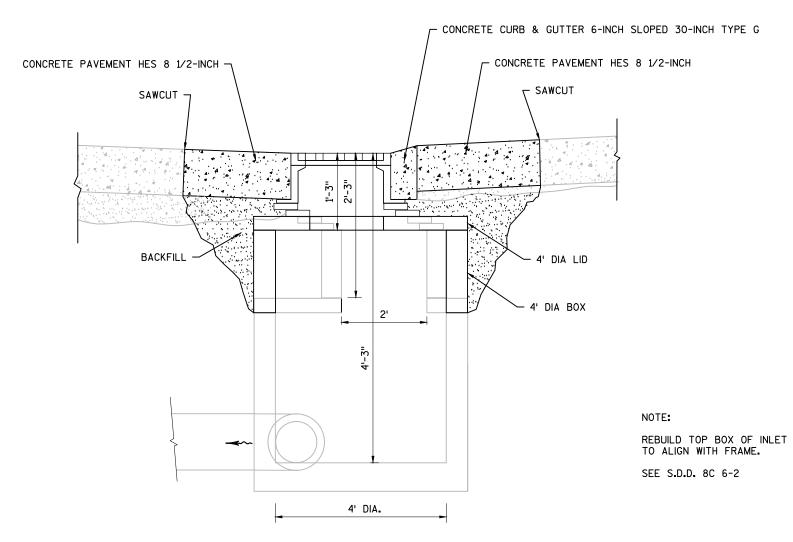
TYPICAL FINISHED SECTION STH 38 & CTH K

STA. 122+25 - STA. 122+75 (STH 38) STA. 155+75 - STA. 156+25 (CTH K)

PROJECT NO:2290-08-71 HWY:STH 38 COUNTY:RACINE TYPICAL SECTIONS SHEET **E**

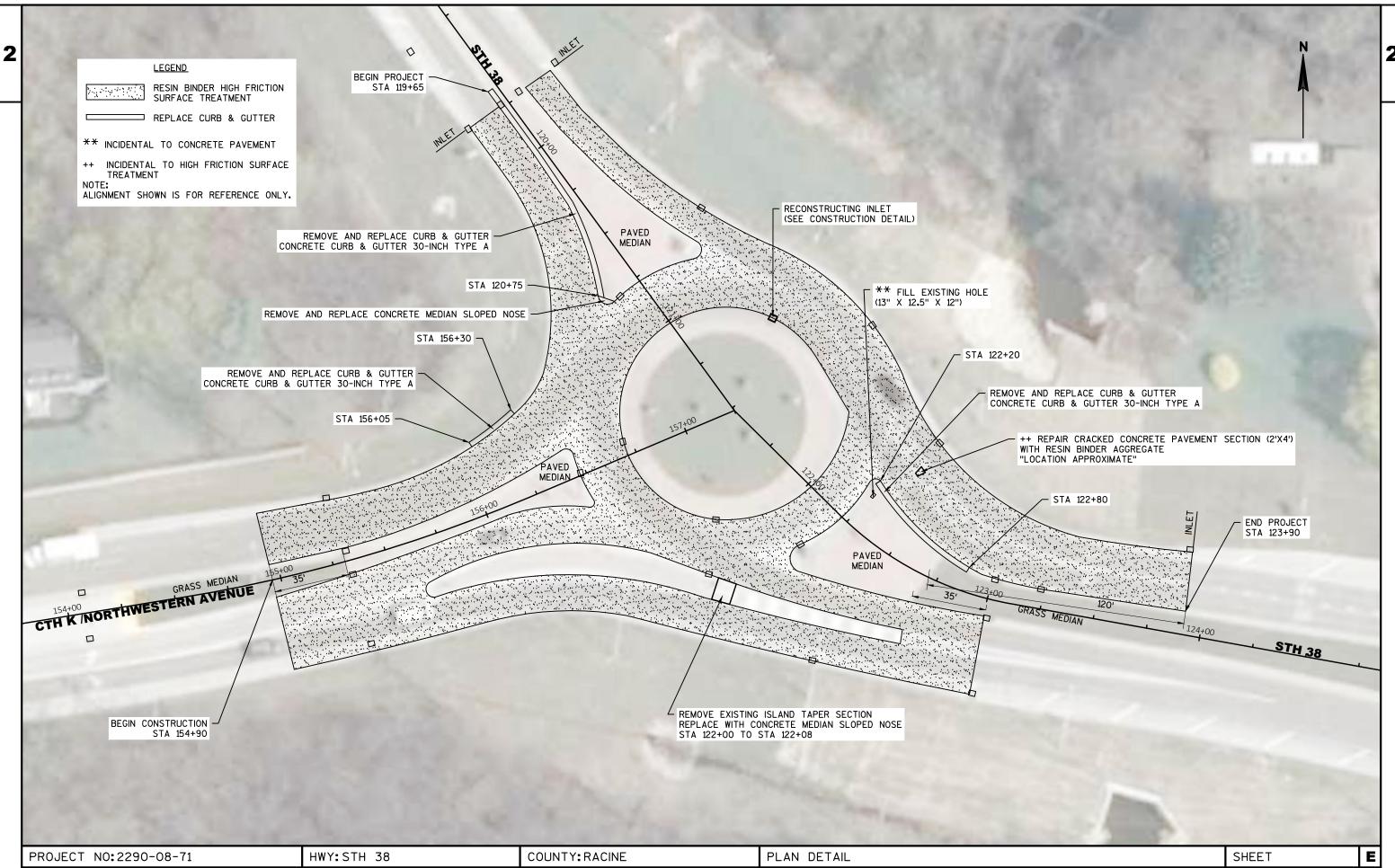
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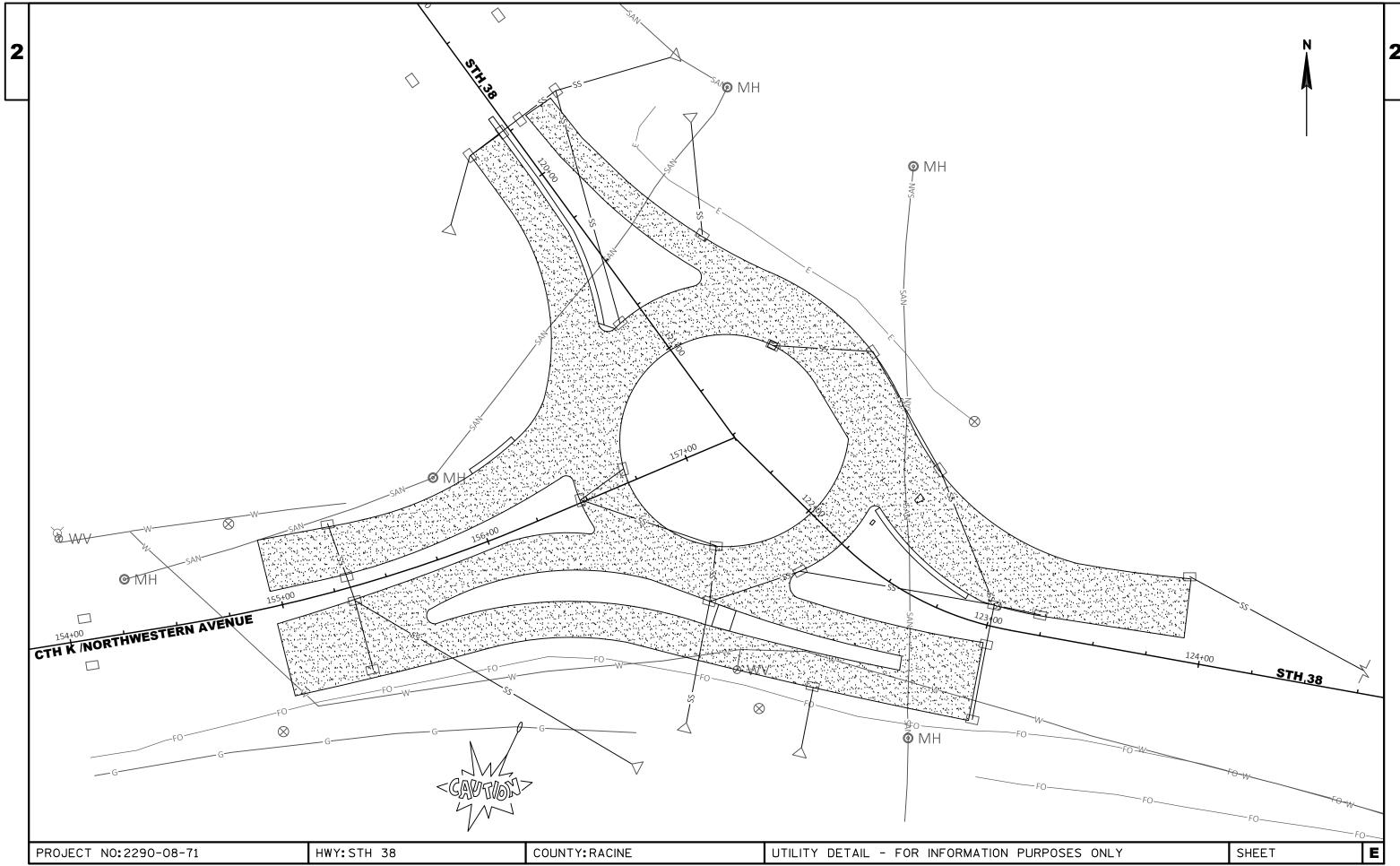
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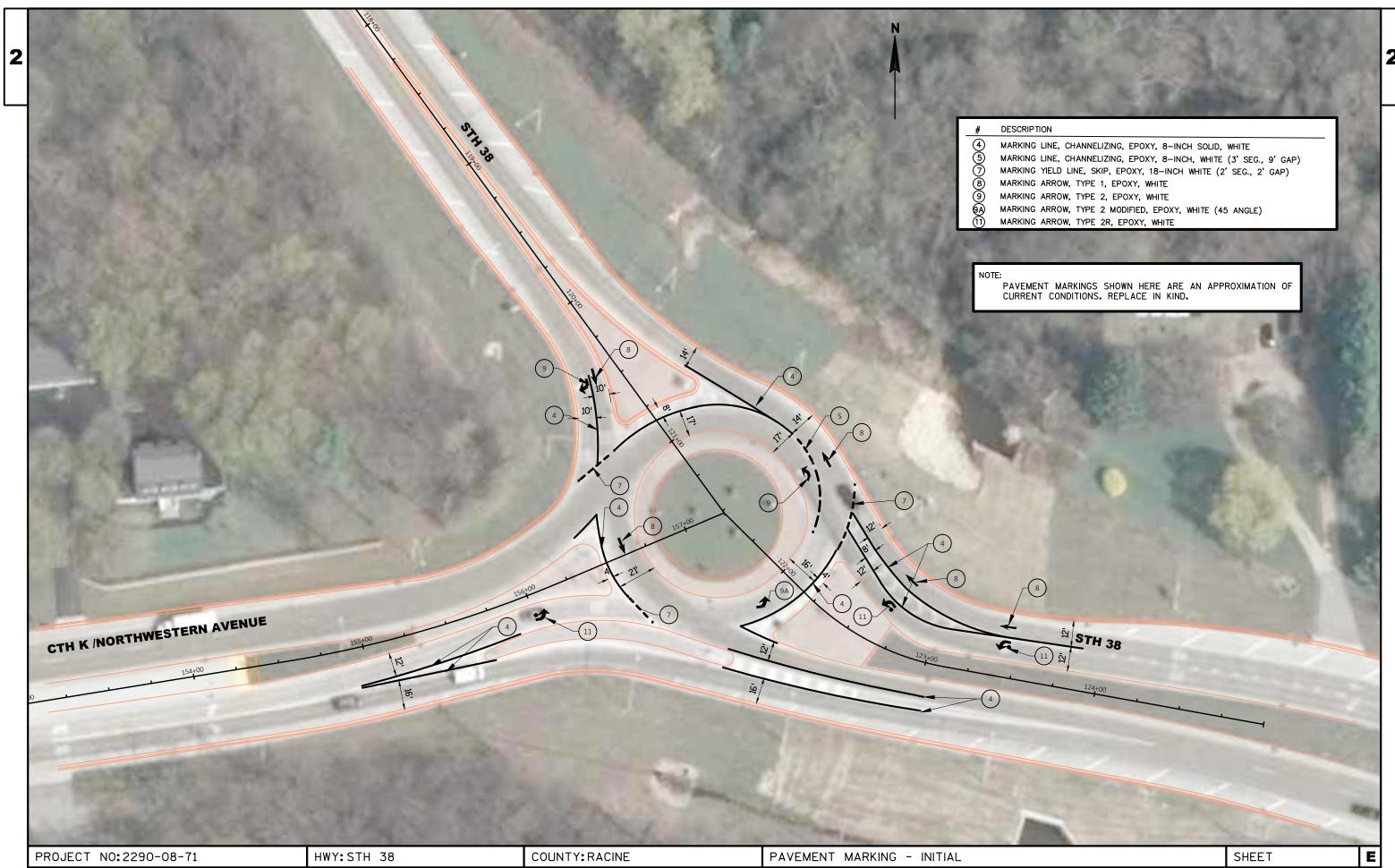
INLET 4-FT DIA

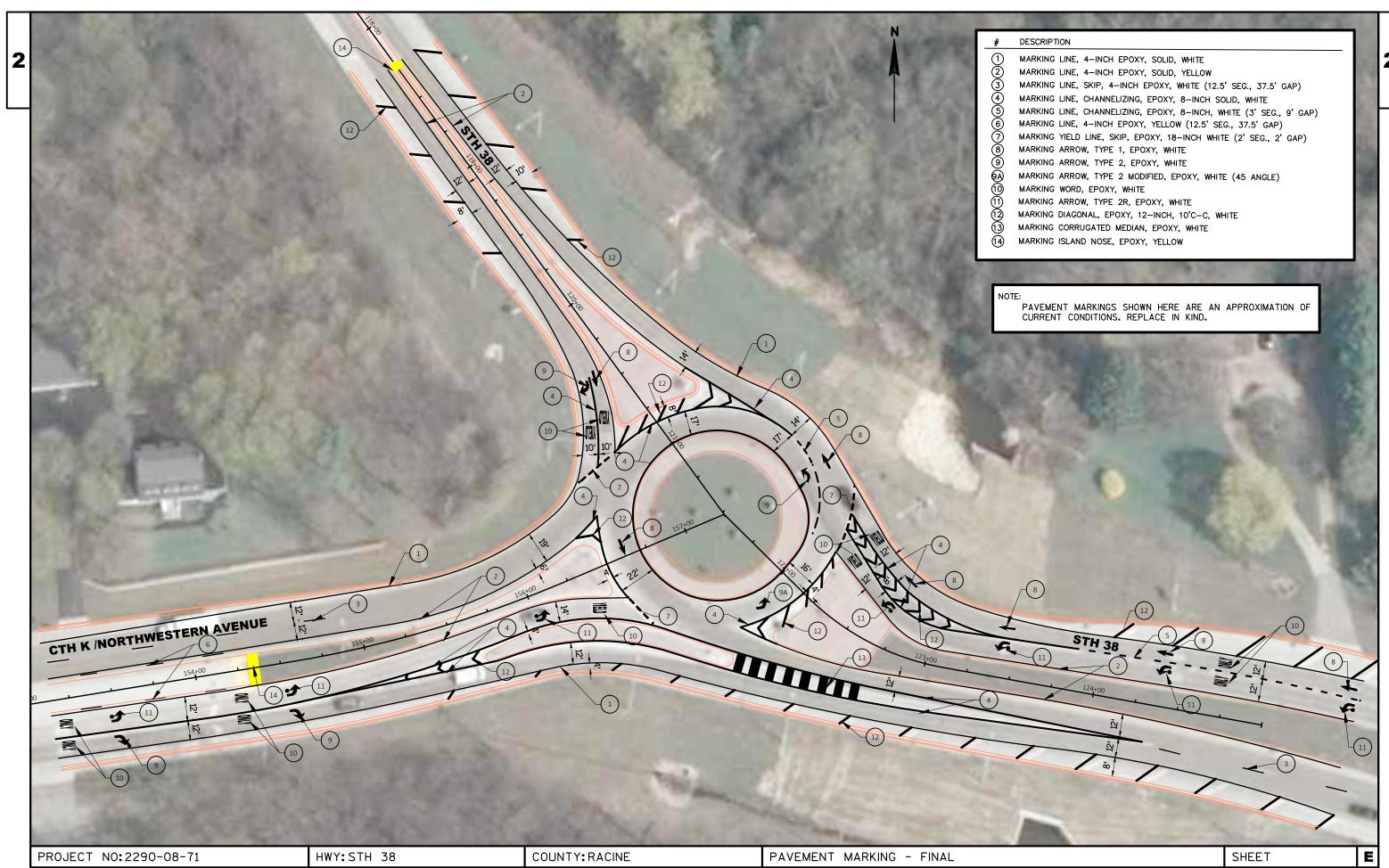
PROJECT NO:2290-08-71 HWY:STH 38 COUNTY:RACINE CONSTRUCTION DETAIL SHEET **E**

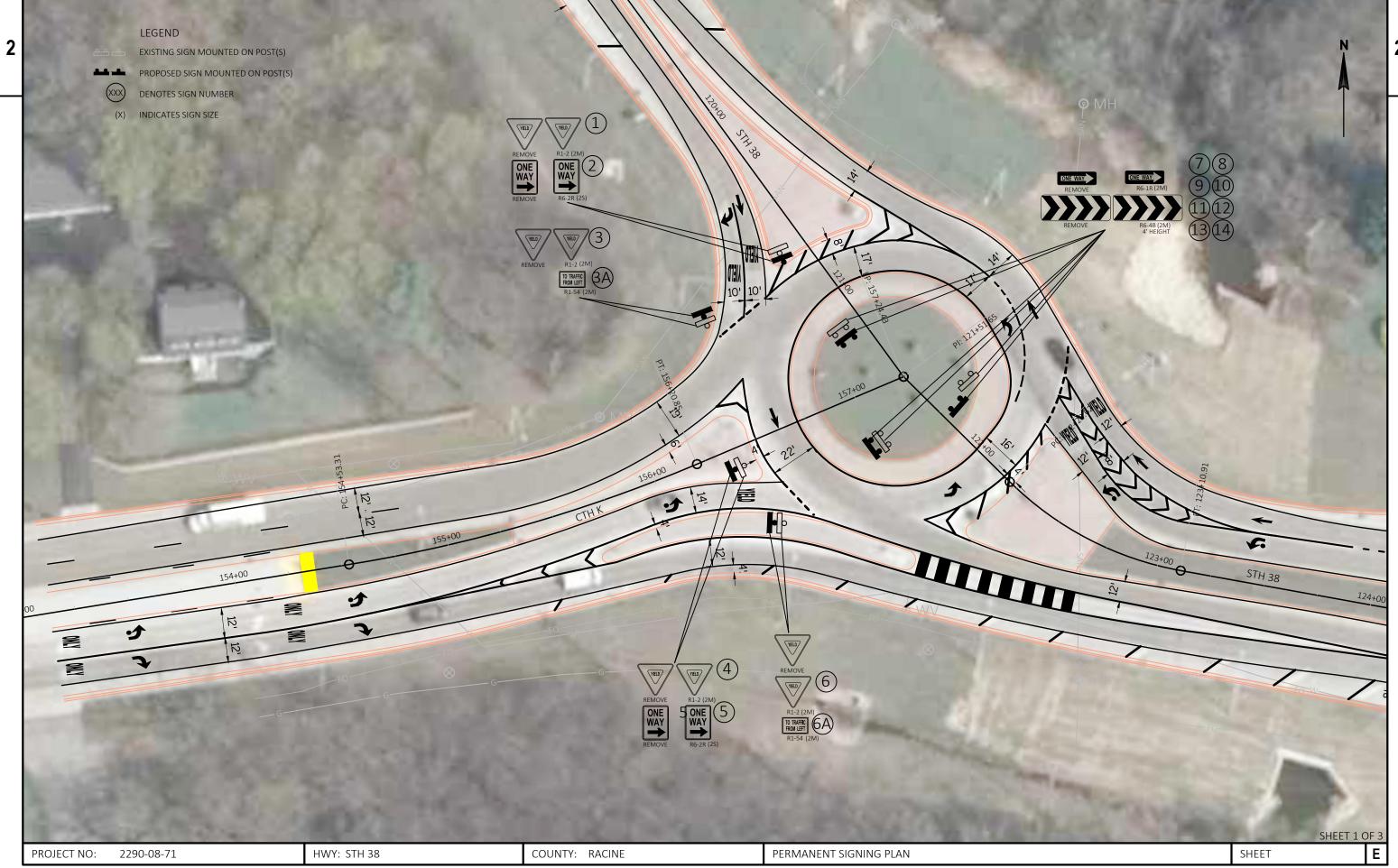












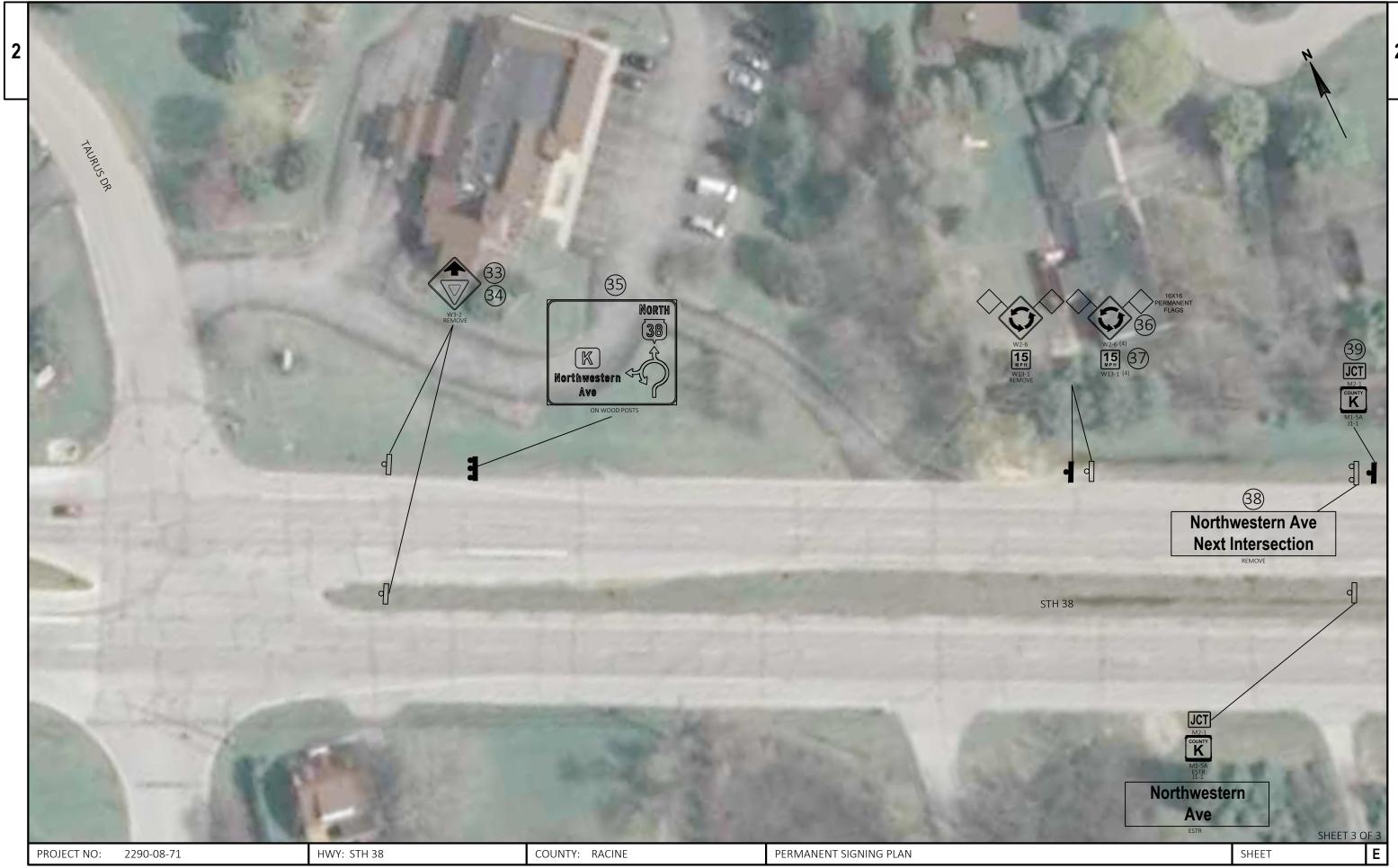
N:\PDS\C3D\CAD\22900801\SIGN\020301_PS.DWG LAYOUT NAME - 020301_PS PLOT BY: WAGNER, SCOTT H PLOT NAME : FILE NAME : PLOT DATE : 11/9/2017 7:56 AM PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



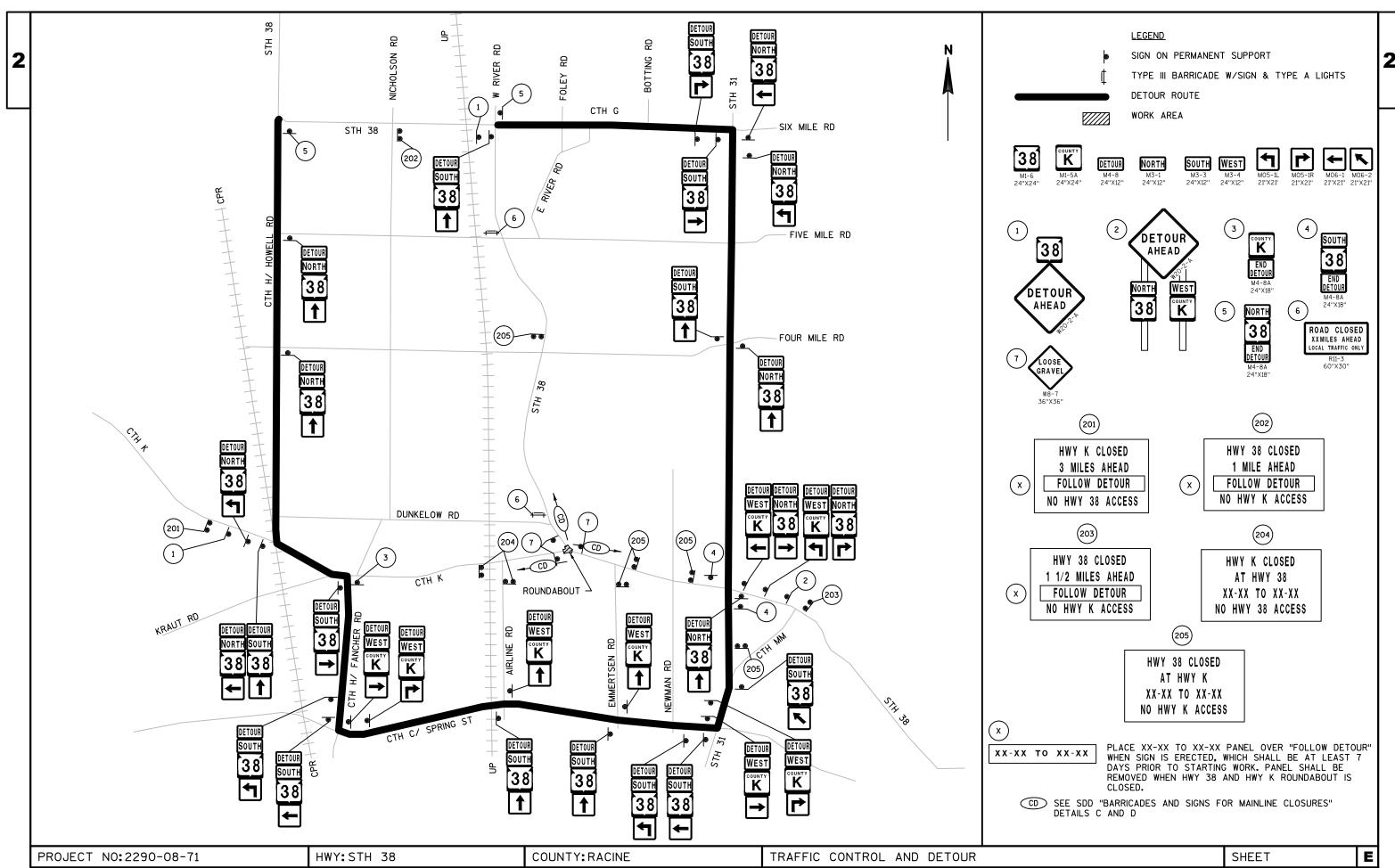
FILE NAME : N:\PDS\C3D\C4D\22900801\SIGN\020301_PS.DWG PLOT BY: WAGNER, SCOTT H PLOT NAME: PLOT SCALE: 1 IN:40 FT LAYOUT NAME - 020302_PS

WISDOT/CADDS SHEET 42



N:\PDS\C3D\CAD\22900801\SIGN\020301_PS.DWG LAYOUT NAME - 020303_PS PLOT BY: WAGNER, SCOTT H PLOT DATE : 11/9/2017 7:56 AM PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



Estimate Of Quantities By Plan Sets

					2290-08-71
Line	Item	Item Description	Unit	Total	Qty
0002	204.0100	Removing Pavement	SY	14.000	14.000
0004	204.0150	Removing Curb & Gutter	LF	220.000	220.000
0010	213.0100	Finishing Roadway (project) 02. 2290-08-71	EACH	1.000	1.000
0014	415.1085	Concrete Pavement HES 8 1/2-Inch	SY	4.000	4.000
0016	416.0610	Drilled Tie Bars	EACH	149.000	149.000
0026	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	204.000	204.000
0028	601.0413	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type G	LF	8.000	8.000
0030	611.0430	Reconstructing Inlets	EACH	1.000	1.000
0038	619.1000	Mobilization	EACH	0.340	0.340
0040	620.0300	Concrete Median Sloped Nose	SF	118.000	118.000
0046	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0052	628.7015	Inlet Protection Type C	EACH	28.000	28.000
0058	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	8.000	8.000
0060	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	9.000	9.000
0062	634.0818	Posts Tubular Steel 2x2-Inch X 18-FT	EACH	20.000	20.000
0064	637.0620	Sign Flags Permanent Type II	EACH	6.000	6.000
0066	637.2210	Signs Type II Reflective H	SF	201.000	201.000
0068	637.2230	Signs Type II Reflective F	SF	100.000	100.000
0070	638.2102	Moving Signs Type II	EACH	1.000	1.000
0072	638.2602	Removing Signs Type II	EACH	25.000	25.000
0074	638.3000	Removing Small Sign Supports	EACH	22.000	22.000
0800	643.0420	Traffic Control Barricades Type III	DAY	150.000	150.000
0082	643.0705	Traffic Control Warning Lights Type A	DAY	300.000	300.000
0084	643.0715	Traffic Control Warning Lights Type C	DAY	234.000	234.000
0088	643.0900	Traffic Control Signs	DAY	1,068.000	1,068.000
0092	643.0920	Traffic Control Covering Signs Type II	EACH	61.000	61.000
0094	643.1000	Traffic Control Signs Fixed Message	SF	324.000	324.000
0098	643.5000	Traffic Control	EACH	0.340	0.340
0100	646.1020	Marking Line Epoxy 4-Inch	LF	4,126.000	4,126.000
0102	646.3020	Marking Line Epoxy 8-Inch	LF	3,359.000	3,359.000
0104	646.5020	Marking Arrow Epoxy	EACH	30.000	30.000
0106	646.5120	Marking Word Epoxy	EACH	11.000	11.000
0108	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	84.000	84.000
0110	646.7120	Marking Diagonal Epoxy 12-Inch	LF	645.000	645.000
0112	646.8020	Marking Corrugated Median Epoxy	SF	394.000	394.000
0114	646.8220	Marking Island Nose Epoxy	EACH	2.000	2.000
0118	690.0250	Sawing Concrete	LF	291.000	291.000
0132	SPV.0180	Special 01. Resin Binder High Friction Surface	SY	3,865.000	3,865.000
		Treatment		,	,

STATION LOCATION 120+75 STH 38 NORTH LEG 121+20 STH 38 ROUNDAB 122+10 STH 38 SPLITTER IS TO	204.0100 SY G SLOPED NOSE 3 OUT AT INLET 8	REMOVING CURB & GUTTER STATION TO STATION LOCATION 119+65 - 120+75 STH 38 NORTH LEG 122+20 - 122+80 STH 38 SOUTH LEG 156+05 - 156+30 CTH K ROUNDABOUT 121+18 - 121+25 STH 38 ROUNDABOUT 122+08 - 122+16 STH 38 SPLITTER ISLA TOTAL 0010	204.0150 LF 115 63 EXIT 26 T AT INLET 8	CONCRETE PAVEMONE LOCATION STH 38 ROUNDABOUT AT TOTAL 0010	IENT HES 8 ½- INCH 415.1085 SY Γ INLET 4 4
STATION TO STATION LOCATION 119+65 - 120+75 STH 38 NG 122+20 - 122+80 STH 38 SG 156+05 - 156+30 CTH K ROG 121+18 - 121+25 STH 38 RG 120+75 STH 38 NG	ORTH LEG 53 DUTH LEG 31 UNDABOUT EXIT 18 DUNDABOUT AT INLET 14 ORTH LEG SLOPED NOSE 17 PLITTER ISLAND 16	CONCRETE CURB & GUTTER 30-INC STATION TO STATION LOCATION 119+65 - 120+75 STH 38 NORTH LEG 122+20 - 122+80 STH 38 SOUTH LEG 156+05 - 156+30 CTH K ROUNDABOU' TOTAL 0010	601.0409 LF 115 63	CONCRETE CURB & GUTTER 6-INC STATION TO STATION LOCATION 121+18 - 121+25 STH 38 ROUNE TOTAL 0010	601.0413 LF
LOCATION INSIDE ROUNDABOUT TOTAL 0010 PROJECT NO: 2290-08-71	CTING INLETS 611.0430 EACH 1 1 HWY: STH 38	CONCRETE MEDIAN SLOPED STATION LOCATION 120+75 STH 38 NORTH LEG 122+10 STH 38 SPLITTER ISLAND TOTAL 0010 COUNTY: RACINE	NOSE 620.0300 SF 50 68 118	MOBILIZATIONS ERG LOCATION STH 38 TOTAL 0010	OSION CONTROL 628.1905 EACH 1 1
FILE NAME :	NV 1. 3 N 30	COUNTY: RACINE MI		PLOT NAME : PLOT SCALE : 1:1	SHEET.

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-2

643.0420	643.0705	

TRAFFIC CONTROL

643.0900

1068

643.1000

324

INLET PROTECTION TYPE C					
	628.7015				
LOCATION	EACH				
STH 38	28				
TOTAL 0010	28				

		BARRICADE	S TYPE III	WARNING L	IGHTS TYPE A	SIG	SIGNS		RING SIGNS T	SIGNS FIXED MESSAGE		
								NUMBER OF	NUMBER OF			İ
STAGE	DAYS	COUNT*	DAY	COUNT*	DAY	COUNT*	DAY	SIGNS	CYCLES	EACH	SF	1
INITIAL CLOSURE	5	25	125	39	195	176	880	26	1	26	324	`
ROAD OPEN	4	-	-	-	-	3	12	9	1	9**	-	
FINAL CLOSURE	1	25	25	39	39	176	176	26	1	26	-	T

234

* FOR INFORMATION ONLY. ACTUAL NUMBER OF DEVICES TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

150

** COVERING FIXED MESSAGE SIGNS

61

643.0920

MARKING

	646.1020			646.3020		646.5020	646.5120	646.6320 DOTTED EXTENSION	646.7120 DIAGONAL	646.8020 CORRUGATED	646.8220 ISLAND NOSE	
		LINE EPOXY	4-INCH		LINE EPO	XY 8-INCH	ARROW EPOXY	WORD EPOXY	EPOXY 18-INCH	EPOXY 12-INCH		EPOXY
	YELLOW	YELLOW 12.5' SKIPS	WHITE	WHITE 12.5' SKIPS	WHITE	WHITE 3' SKIPS	WHITE	WHITE	WHITE	WHITE	YELLOW	
	LF	LF	LF	LF	LF	LF	EACH	EACH	LF	LF	SF	EACH
PAVEMENT MARKING – INITIAL AFTER PLACING HFST	-	-	-	-	1074	20	11	-	42	-	-	-
PAVEMENT MARKING – FINAL AFTER FINAL SWEEP	1862	75	2102	88	2133	132	19	11	42	645	394	2
TOTAL 0010		412	6		33	359	30	11	84	645	394	2

SAWING CONCRETE

TOTAL 0010

		690.0250
STATION TO STATION	LOCATION	LF
119+65 - 120+75	STH 38 NORTH LEG	120
122+20 - 122+80	STH 38 SOUTH LEG	68
156+05 - 156+30	CTH K ROUNDABOUT EXIT	31
121+18 - 121+25	STH 38 ROUNDABOUT AT INLET	24
120+75	STH 38 SOUTHBOUND SLOPED NOSE	15
122+08 - 122+16	STH 38 SPLITTER ISLAND	33
	TOTAL 0010	291

RESIN BINDER HIGH FRICTION SURFACE TREATMENT*

	SPV.0180.01
LOCATION	SY
STH 38	3865
TOTAL 0010	3865

*PAVEMENT MARKING REMOVALS ARE INCIDENTAL TO ITEM SPV.0180.01, PER SPECIAL PROVISION.

2290-08-71 STH 38

111 2 11 7 2	RIVIANENT SIGNI	1			1	1	1	1		T				2290-08-71 STH 38
				637.2210	637.2230	638.2602	638.3000	634.0618	634.0620	634.0818	638.2102	637.0620		
				SIGNS	SIGNS	REMOVING	REMOVING			POSTS				
	SIGN		SIGN	TYPE II	TYPE II	SIGNS	SMALL	WOOD	WOOD	TUBULAR	MOVE	SIGN FLAGS	MOUNT	
SIGN	CODE	SIGN	SIZE	REFLC	REFLC	TYPE II	SIGN	POSTS	POSTS	STEEL	SIGNS	PERMANENT	ON SAME	
NO.	& SIZE	MESSAGE	W x H	Н	F		SUPPORTS	4"X 6"x18'	4" X 6" X 20'	2 X 2 INCH X 18 FT	TYPE II	TYPE II	POST AS	
			[IN.] x [IN.]	[SF]	[SF]	EACH	[EA]*	[EA]	EACH	EACH	[EA]	EACH		REMARKS / NEW SIGN LOCATION
			[, , [,	[6.]	[0.]	2,1011	[=/ 4	[=, 4]	2,1011	27.011	[-/ 4	2,1011	CICIY II	REMUTINE / NEW GIGIN EGG/MIGIN
4	D4 0/0M		48 X 42	7,000		4.000	1			2				
1	R1-2(2M)			7.000		1.000	'			2			4	
2	R6-2R(2S)		24 X 30	5.000		1.000							1	
3	R1-2(2M)		48 X 42	7.000		1.000	1			2				
3A	R1-54(2M)		24 X 15	2.500									3	
4	R1-2(2M)		48 X 42	7.000		1.000	1			2				
5	R6-2R(2S)		24 X 30	5.000		1.000							4	
6	R1-2(2M)		48 X 42	7.000		1.000	1			2				
7	R6-4B(2M)		60 X 24	10.000		1.000	2			2				
8	R6-1R(2M)		54 X 18	6.750		1.000							7	
9	R6-4B(2M)		60 X 24	10.000		1.000	2			2				
10	R6-1R(2M)		54 X 18	6.750		1.000							9	
11	R6-4B(2M)		60 X 24	10.000		1.000	2			2				
12	R6-1R(2M)		54 X 18	6.750		1.000							11	
13	R6-4B(2M)		60 X 24	10.000		1.000	2			2				
14	R6-1R(2M)		54 X 18	6.750		1.000	_			_			13	
15	W1-6		04 X 10	0.700		1.000								LIGHT POLE
16	W1-8(3)		24 X 30		5.000	1.000		1						4 FOOT MOUNTING HEIGHT
														4 FOOT MOUNTING HEIGHT
17	W1-8(3)		24 X 30		5.000			1						
18	W1-8(3)		24 X 30		5.000			1						4 FOOT MOUNTING HEIGHT
19	W1-8(3)		24 X 30		5.000			1						4 FOOT MOUNTING HEIGHT
20	W1-8(3)		24 X 30		5.000			1						4 FOOT MOUNTING HEIGHT
21	R1-2(2M)		48 X 42	7.000		1.000	1			2				
22	R6-2R(2S)		24 X 30	5.000		1.000							21	
23	R1-2(2M)		48 X 42	7.000		1.000	1			2				
24	R1-54(2M)		24 X 15	2.500		1.000							23	
25	R3-8JJ						1	1			1			
26	J3-2					1.000	1							
27	W3-2(4)		48 X 48		16.000				2			2		
28	W13-1(4)	15 MPH	36 X 36		9.000								27	
29	W3-2(4)		48 X 48		16.000				2			2		
30	W13-1(4)	15 MPH	36 X 36		9.000								29	
31	W1-1R					1.000	1							PLAQUE IS PART OF REMOVAL
32	J2-2(2M)		48 X 60	20.000			'	2						
32	M15A	СТН К	24 X 24	20.000				_						
		Jan K												
	M4-20L		24 X 24											
	M3-1		24 X 12											
		STH 38	24 X 24											
	M4-20R		24 X 24											
33	W3-2					1.000	1							
														

SHEET 1 OF 2

PROJECT NO: 2290-08-71 HWY: STH 38 COUNTY: RACINE MISCELLANEOUS QUANTITIES SHEET: **E**

TYPE II PERMANENT SIGNING

TYPE II PERMANENT SIGNING	2290-08-71 STH 38

						637.2210	637.2230	638.2602	638.3000	634.0618	634.0620	634.0818	638.2102	637.0620		
						SIGNS	SIGNS	REMOVING	REMOVING			POSTS				
	SIGN			SIGN		TYPE II	TYPE II	SIGNS	SMALL	WOOD	WOOD	TUBULAR	MOVE	SIGN FLAGS	MOUNT	
SIGN	CODE	SIGN		SIZE		REFLC	REFLC	TYPE II	SIGN	POSTS	POSTS	STEEL	SIGNS	PERMANENT	ON SAME	
NO.	& SIZE	MESSAGE	W	х	Н	н	F		SUPPORTS	4"X 6"x18'	4" X 6" X 20'	2 X 2 INCH X 18 FT	TYPE II	TYPE II	POST AS	
			[IN.]	х	[IN.]	[SF]	[SF]	EACH	[EA]*	[EA]	EACH	EACH	[EA]	EACH	SIGN#	REMARKS / NEW SIGN LOCATION
34	W3-2							1.000	1							
35	D1-62	DIAGRAMMATIC	96	х	78	52.000					3					
36	W2-6(4)		48	Х	48		16.000	1.000	1		2			2		
37	W13-1(4)	15 MPH	36	Χ	36		9.000								36	
38	D1-1							1.000	2							
TOTALS						201.000	100.000	25.000	22	8	9	20	1	6		
	•		•													

SHEET 1 OF 2

PROJECT NO: 2290-08-71 HWY: STH 38 COUNTY: RACINE MISCELLANEOUS QUANTITIES SHEET: **E**

Standard Detail Drawing List

08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08E10-02	INLET PROTECTION TYPE A, B, C AND D
I1B01-05	CONCRETE CORRUGATED MEDIAN
I1B02-02	CONCRETE MEDIAN NOSE
I5C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
I5C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
I5CO7-14D	ROUNDABOUT ARROWS
I5C08-18A	LONGITUDINAL MARKING (MAINLINE)
I5C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
I5C18-04	MEDIAN ISLAND MARKING
15C27-02B	PAVEMENT MARKING (ISLANDS)
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
I5D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

CIRCULAR INLETS W/ FLAT TOP

D

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C

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SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B" DETAIL "A"

INLETS 3-FT AND 4-FT DIAMETER

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

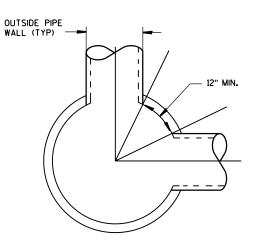
4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

- (1) MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.
- 2 FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	С	F	ALL H'S	S	Т	٧	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				×							х
	2X2	х	х					Х		Х		
4-FT	2 DIA.				х							х
	2X2	х	х					х		Х		
	2X2.5			Х				х	х	Х	х	
	2X3						х					
	2.5X3					х						



DETAIL "C"

PIPE MATRIX

	INLET	MAXIMUM INSIDE P FOR TWO					
١	SIZE	180° SEPARATION (IN)	90° SEPARATION (IN)				
	3-FT	15	12				
	4-FT	24	18				

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

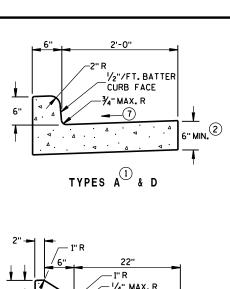
APPROVED

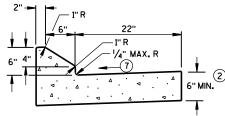
Sept., 2016 /S/ Rodney Taylor DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

9

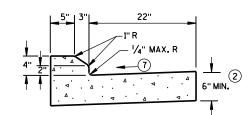
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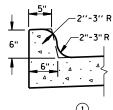




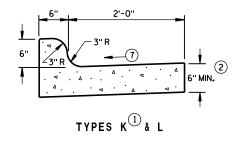
6" SLOPED CURB TYPES G 4 J



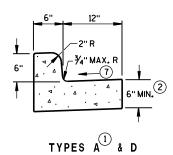
4" SLOPED CURB TYPES G 4 J



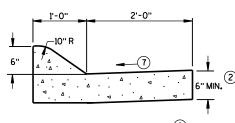
TYPES K (1) & L (OPTIONAL CURB SHAPE)



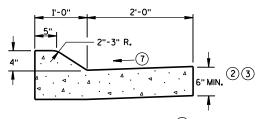
CONCRETE CURB & GUTTER 30"



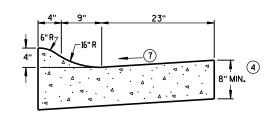
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A & D

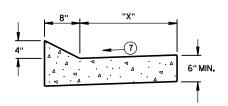


4" SLOPED CURB TYPES A D



4" SLOPED CURB TYPES R T & T

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-O" BEHIND THE BACK OF CURBS.

- (1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
- 2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED
- (4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- (6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- (7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- (8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

6

20a

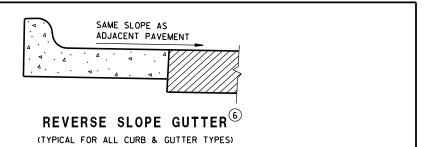
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CONCRETE PANEL WIDTH SAME PAY LIMITS TRAFFIC TRAFFIC LANE -AS CURB & GUTTER LANE PAVEMENT SLOPE PAVEMENT THICKNESS

PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



CONCRETE CURB & GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

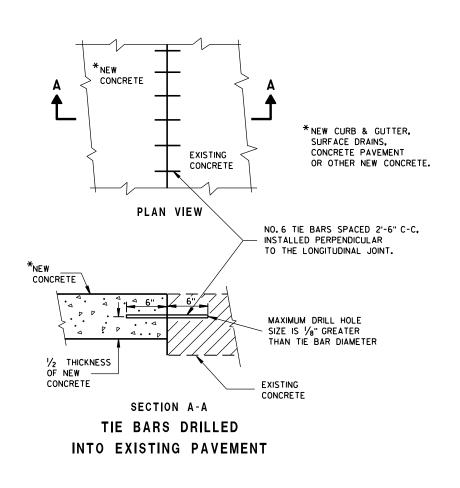
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^{*} BIKE LANE IS NOT SHOWN.

DETAIL OF CURB AND GUTTER AT INLETS (TYPE H INLET COVER SHOWN)

CONTRACTION **PAVEMENT**

END SECTION CURB & GUTTER



GENERAL NOTES

_ 1/2"/FT.BATTER,FACE OF CURB (ABOVE ADJACENT PAVEMENT)

ADJACENT

PAVEMENT

NO. 4 X 2'-0" DEF. TIE

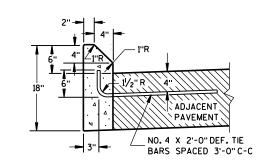
BARS SPACED 3'-0" C-C

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-O" BEHIND THE BACK OF CURBS.

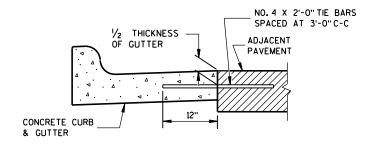
- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A.G.K.R AND TBTT.
- 2 THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



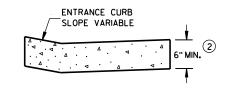
TYPES A D

TYPES G 4 J

CONCRETE CURB



TYPICAL TIE BAR LOCATION 1



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Rodney Taylor June, 2017 DATE

ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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INLET PROTECTION, TYPE A

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- (2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

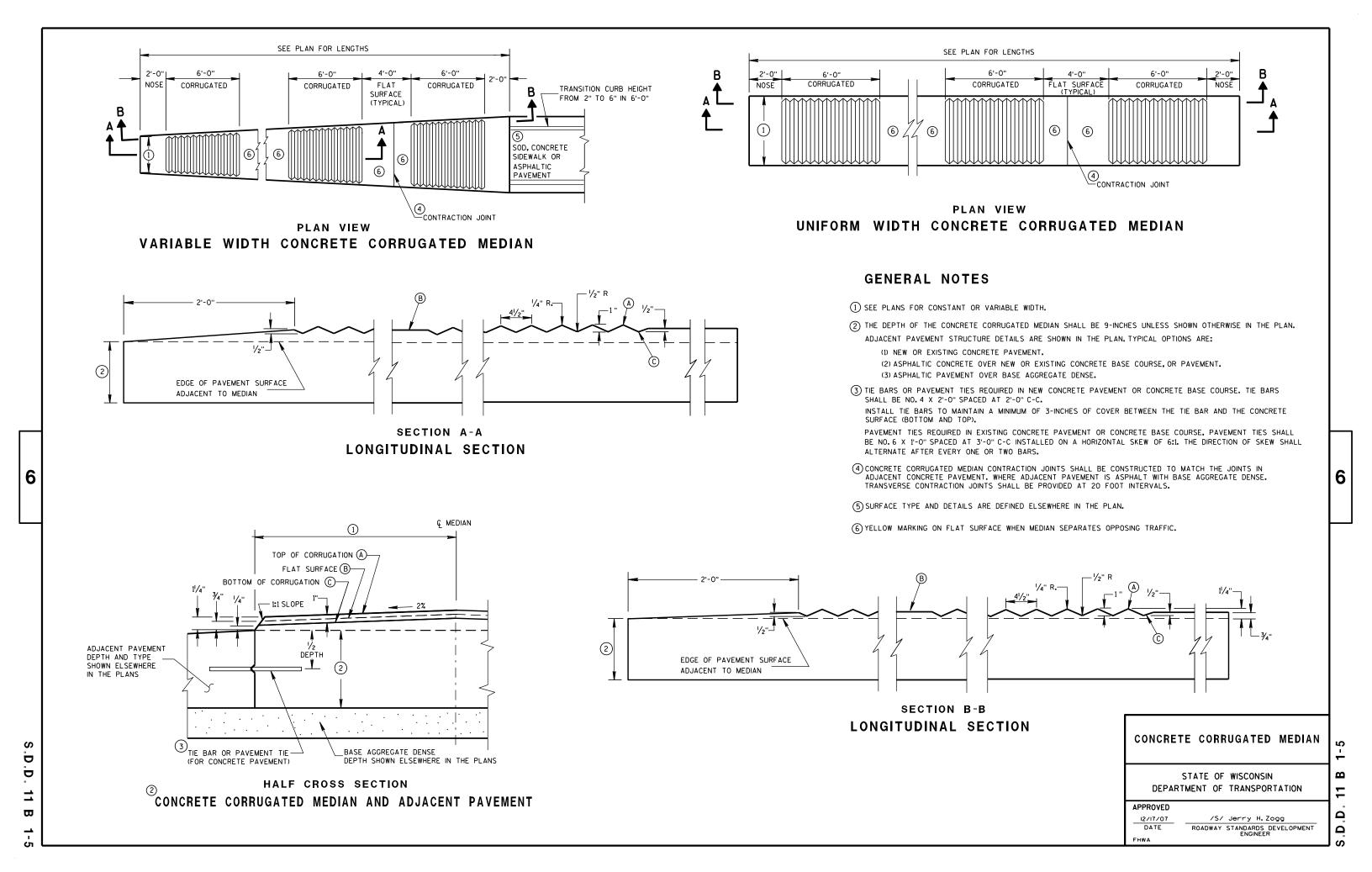
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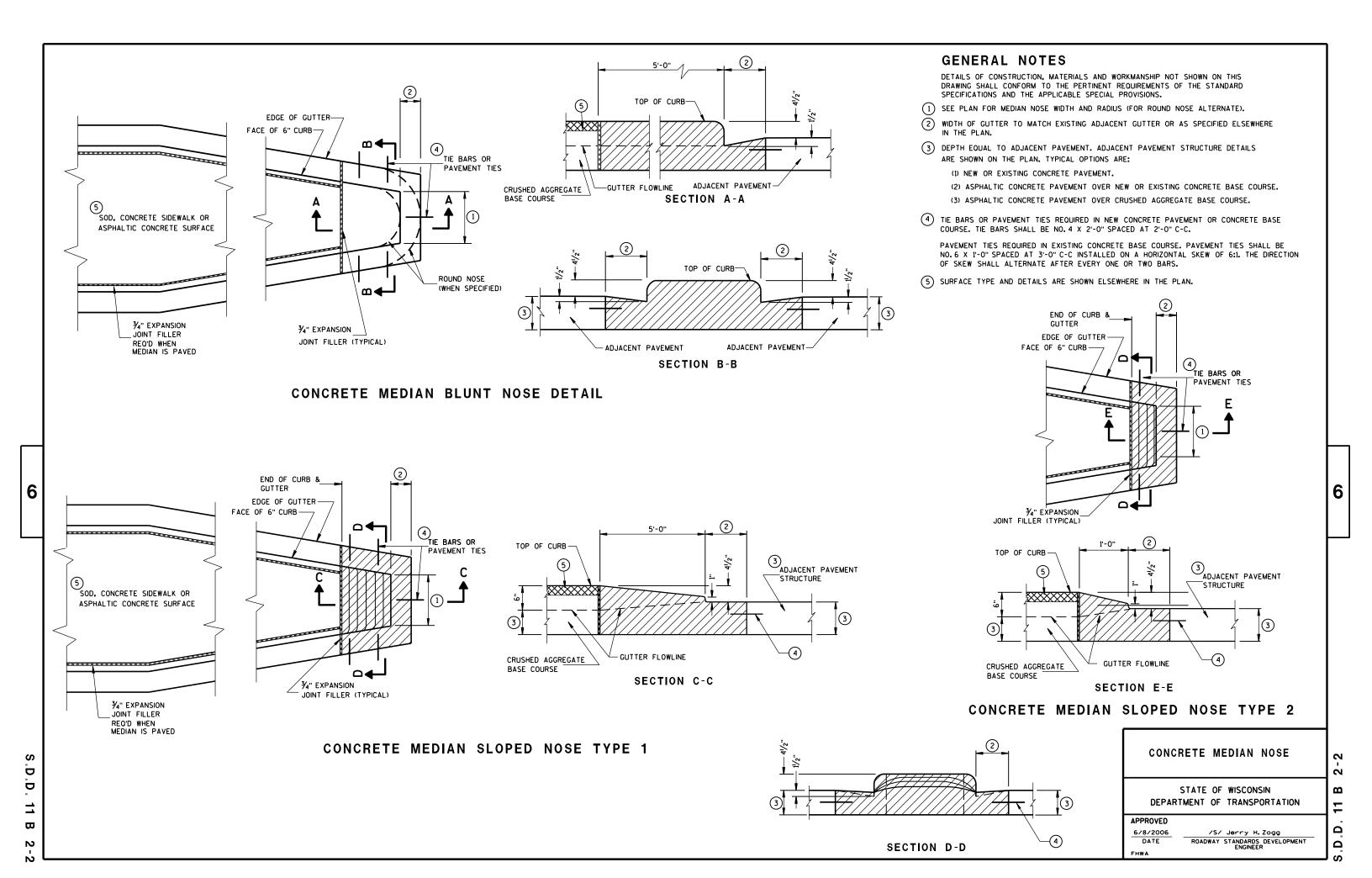
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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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

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE 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, 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". (30" X 15" 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
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- 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.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

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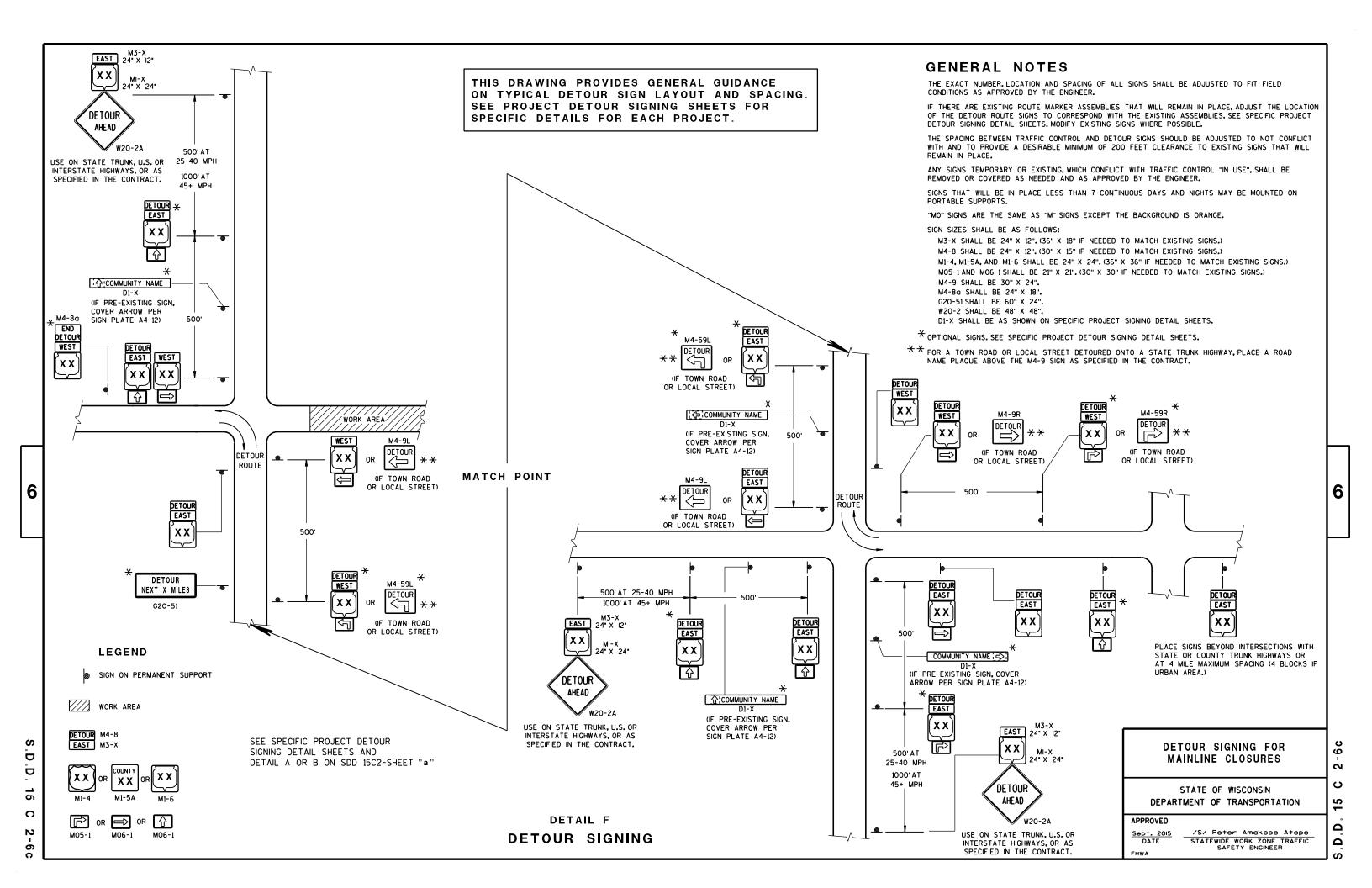
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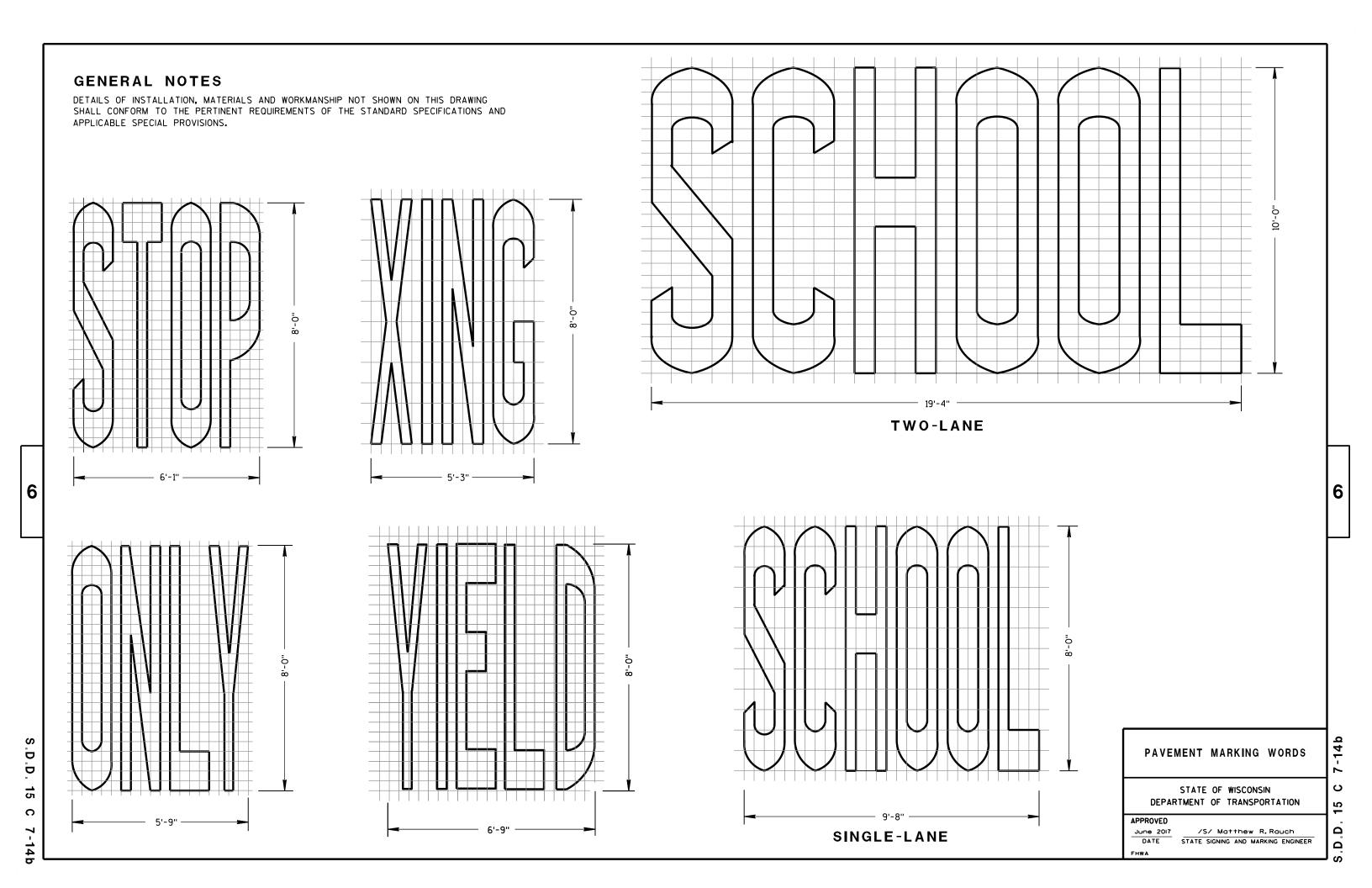
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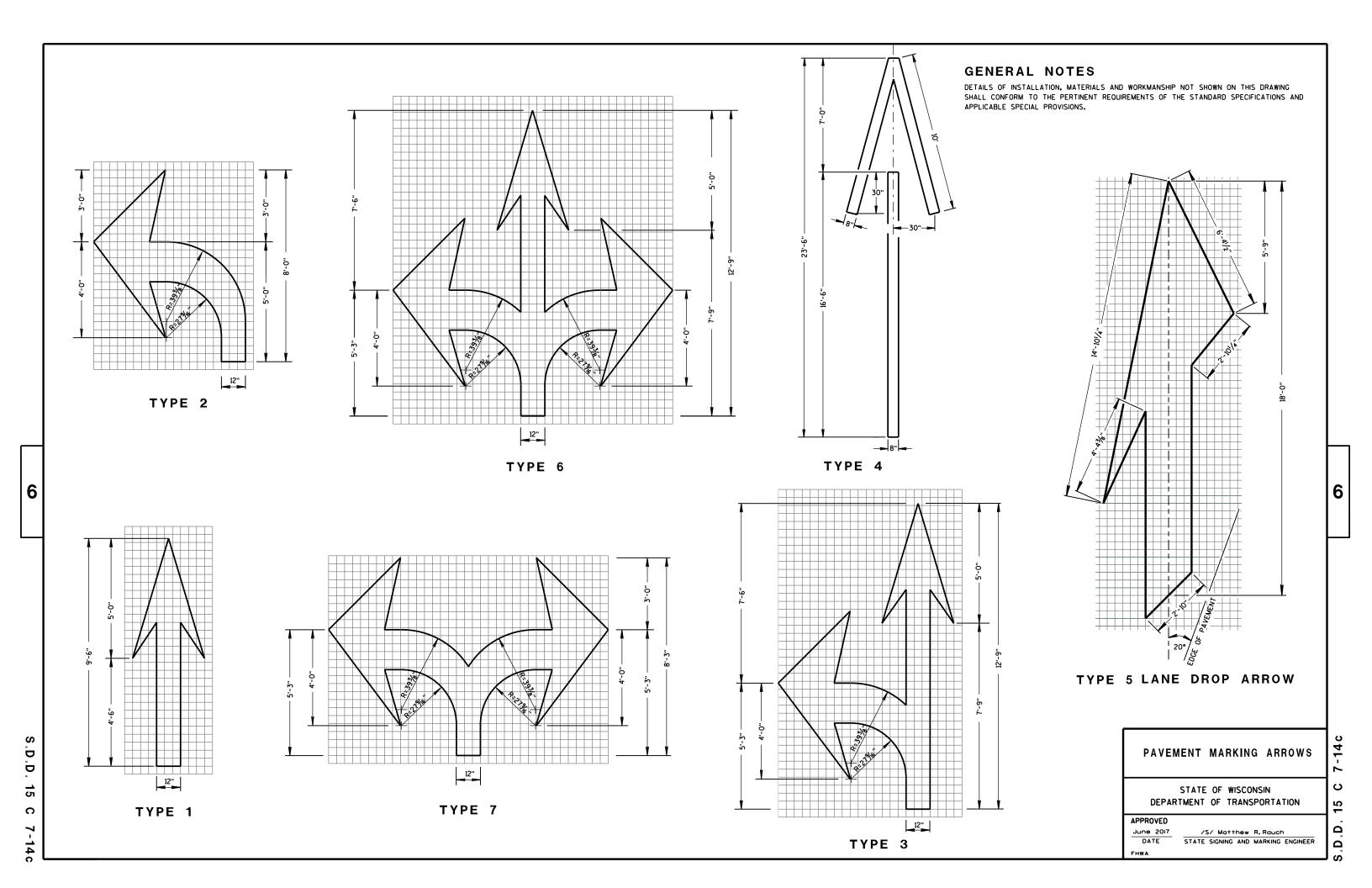
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

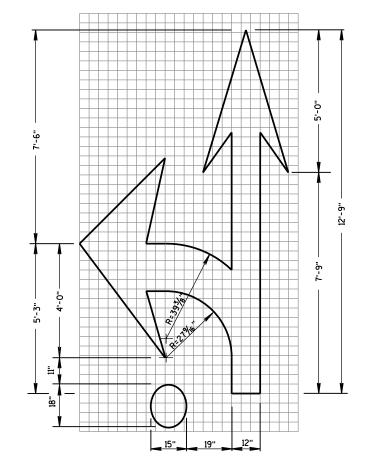
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER



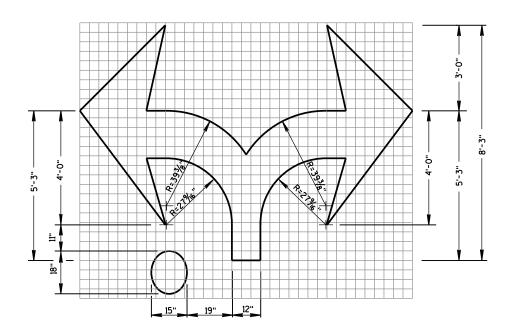




TYPE 2R



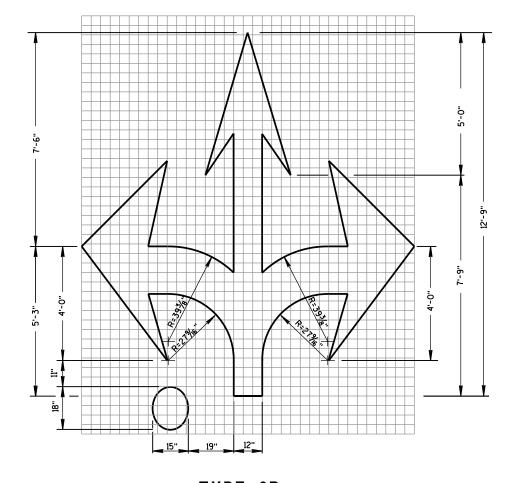
TYPE 3R



TYPE 7R

GENERAL NOTES

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



TYPE 6R

ROUNDABOUT ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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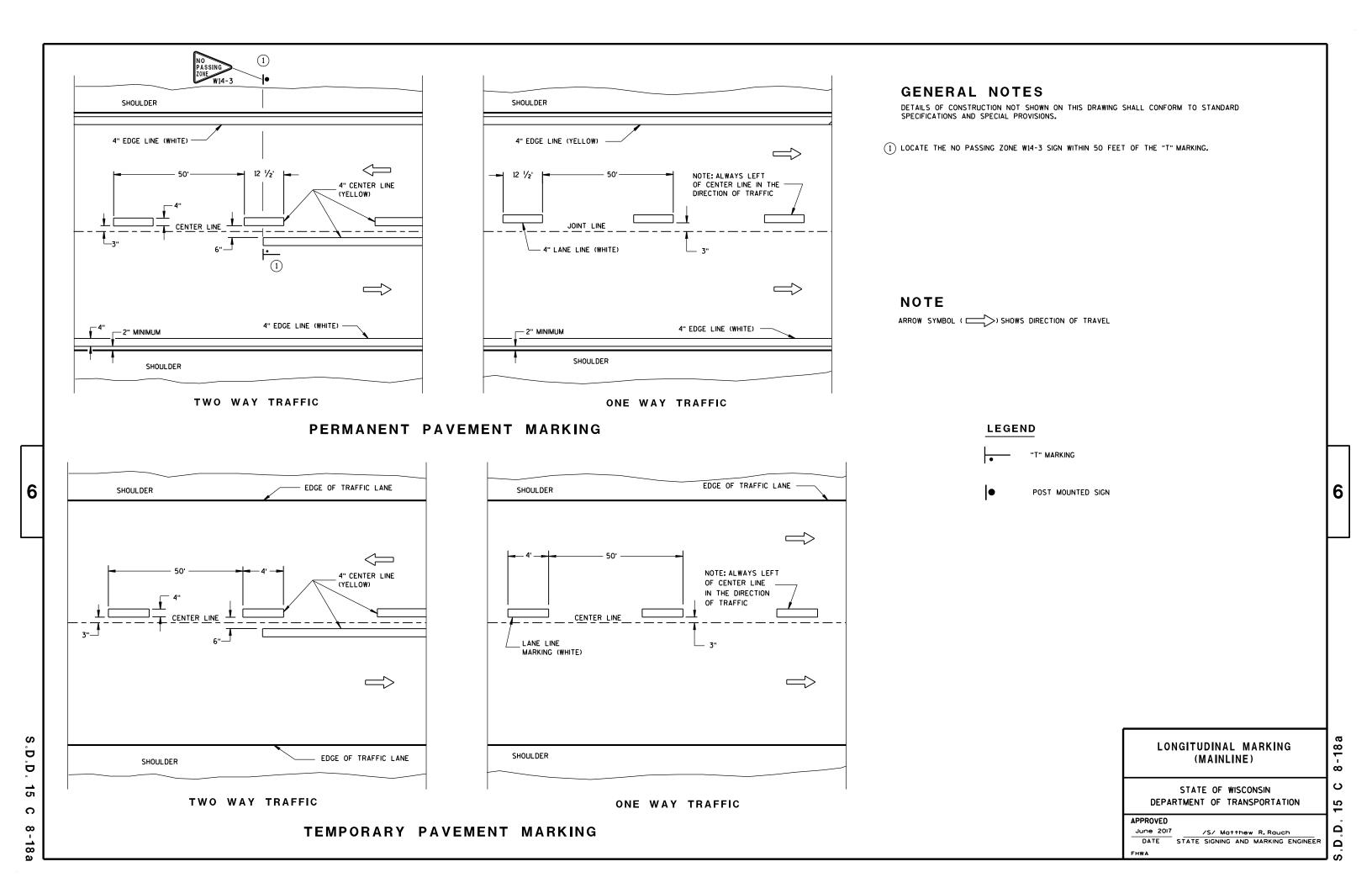
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APPROVED

JUNE 2017
DATE
STATE SIGNING AND MARKING ENGINEER
FHWA

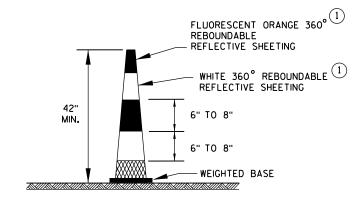
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DRUM

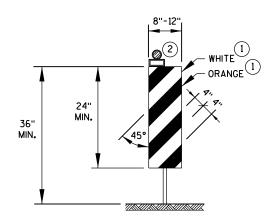
TYPE 2 BARRICADE

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



42" CONE

DO NOT USE IN TAPERS 1/2 SPACING OF DRUMS

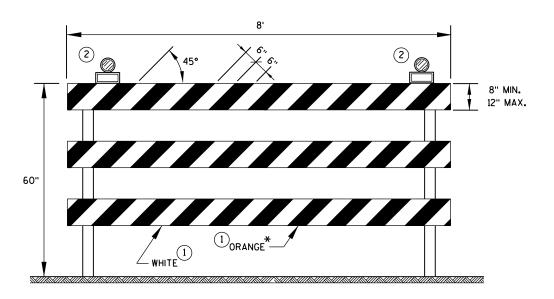


VERTICAL PANEL

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

GENERAL NOTES

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



TYPE 3 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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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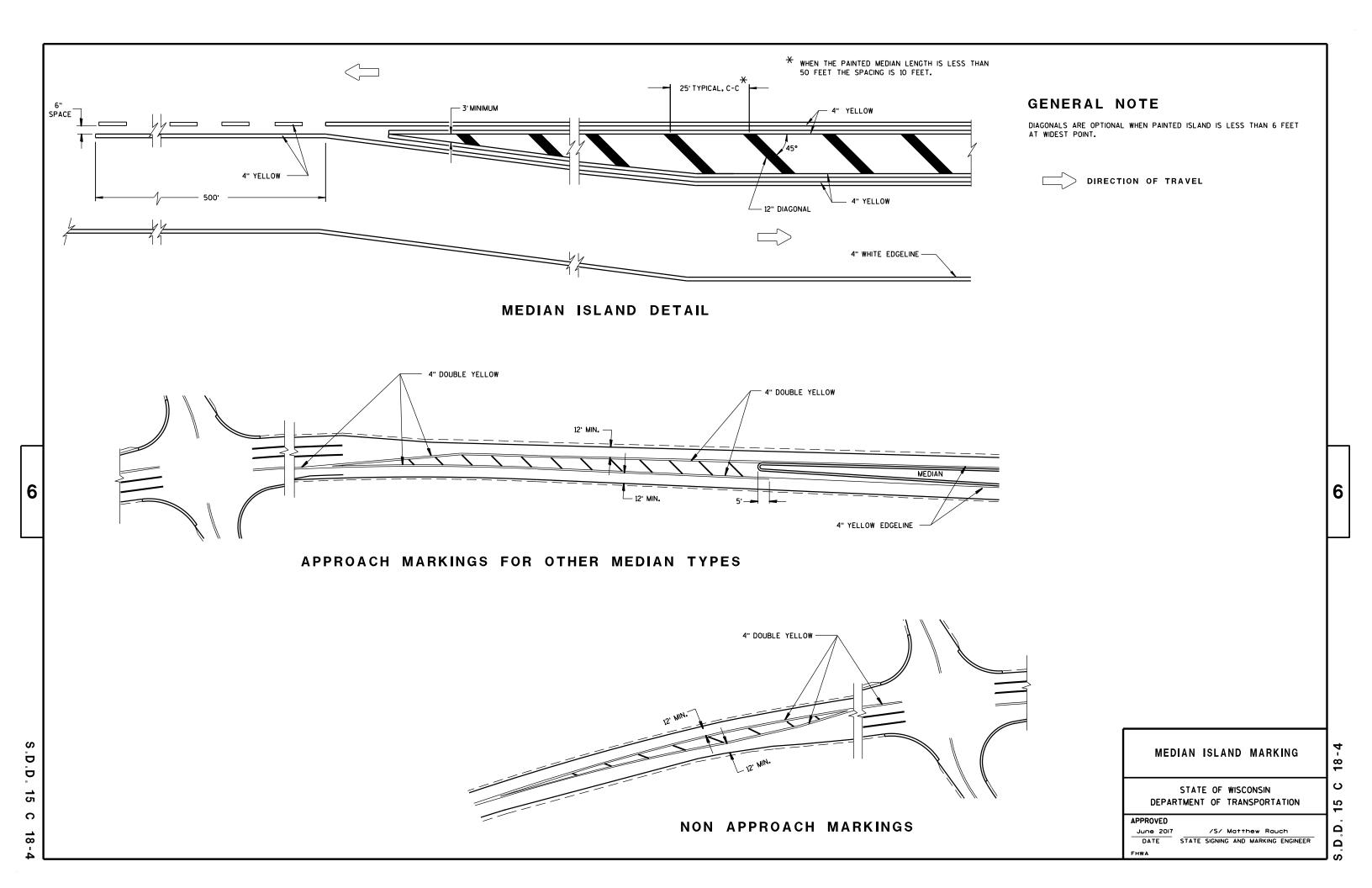
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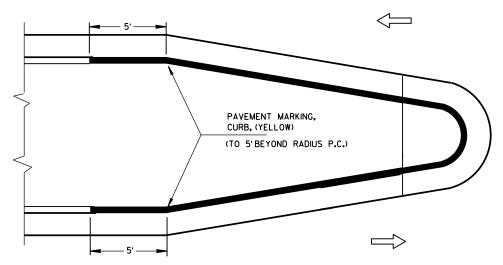
June 2017
DATE

WORK ZONE ENGINEER
FHWA

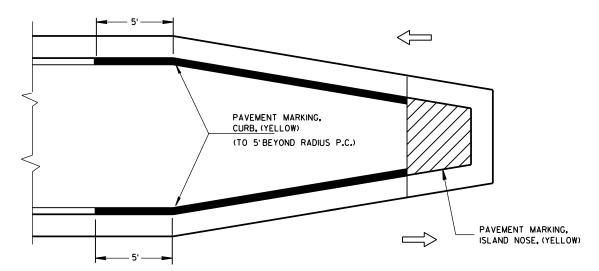
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MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN, THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

CURB MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKING (ISLANDS)

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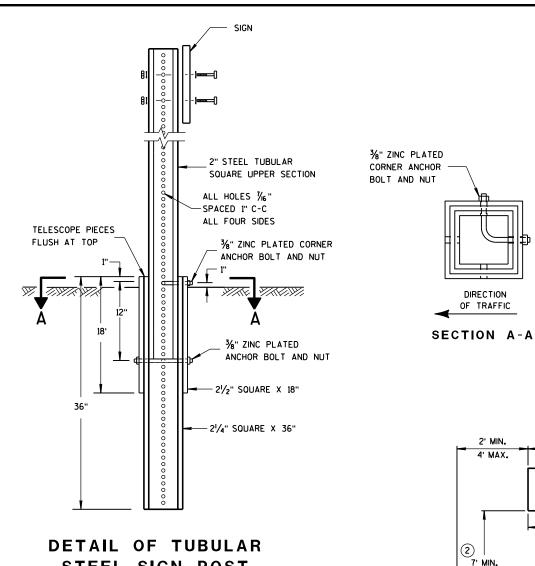
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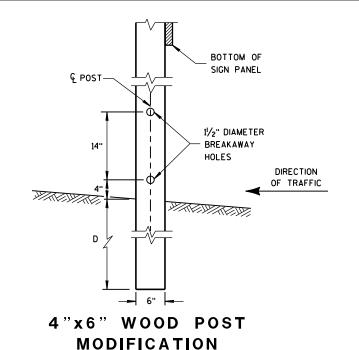
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

STATE SIGNING AND MARKING ENGINEER
FHWA





GENERAL NOTES

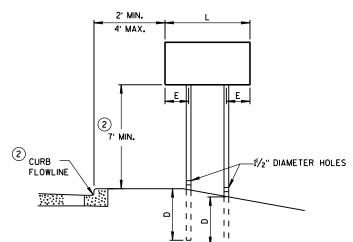
- (1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- (2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY 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. IF NO SIDEWALK AND NO PARKING,
 VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- (3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.

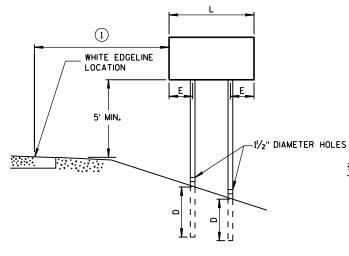
STEEL SIGN POST

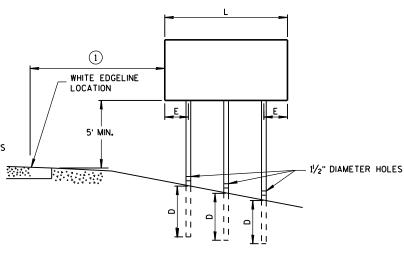
TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.







URBAN AREA

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SO. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	MENTS	NUMBER OF	
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2] [:]
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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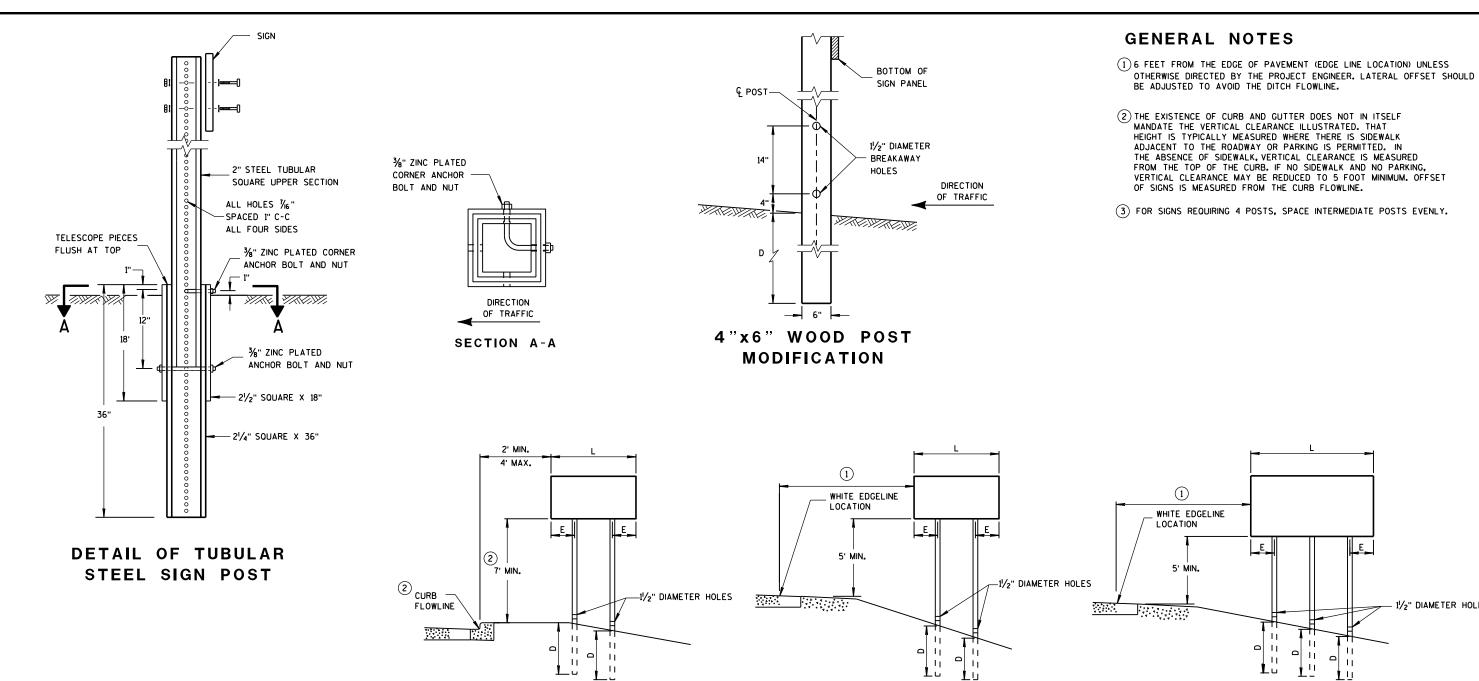
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TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EOUAL TO 18	2
GREATER THAN 18 LESS THAN OR EOUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SO. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	MENTS	NUMBER OF	
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	؛ [
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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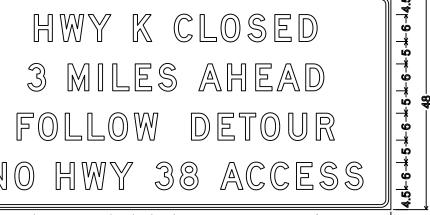
- 11/2" DIAMETER HOLES

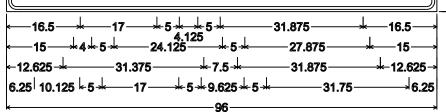
1. Fixed Message Type II Signs - Type F Reflective

2. Color:

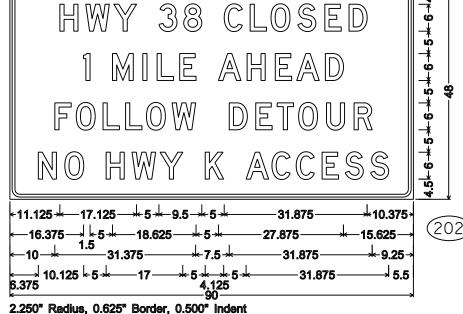
Background - Orange Message - Black

3. Message Series - D





2.250" Radius, 0.625" Border, 0.500" Indent



Base Material is .040" aluminum

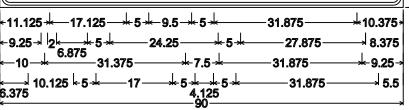
23.25 * 5 * 9 * 5 * 23.25 * 3.25 No border

HWY 38 CLOSED

1½ MILES AHEAD

FOLLOW DETOUR

NO HWY K ACCESS



2.250" Radius, 0.625" Border, 0.500" Indent

HWY K CLOSED

AT HWY 38

XX-XX TO XX-XX

NO HWY 38 ACCESS

-16.5 + 17 + 5 * 5 * 31.875 + 16.5

-25.25 | 8.875 | 5 * 17.125 | 5 * 9.5 * 25.25

-15.25 | 23.25 | 5 * 9 * 5 * 23.25 | 15.25

6.25 | 10.125 | 5 * 17 | * 5 * 9.625 * 5 * 31.75 | 6.25

2.250" Radius, 0.625" Border, 0.500" Indent

HWY 38 CLOSED

AT HWY

XX-XX TO XX-XX

NO HWY K ACCESS

-10.75 * 17.125 * 5 * 9 * 5 * 17.125 * 5 * 4.125

-12.25 * 23.25 * 5 * 9 * 5 * 23.25 * 12.25

5.875

2.250° Radius, 0.625° Border, 0.500° Indent

PROJECT NO: 2290-08-71

HWY:STH 38

COUNTY: RACINE

TEMPORARY SIGNING

SHEET NO:

(201)

PLOT DATE: 29-JUN-2017 08:47

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

PLOT SCALE: 21.406090:1.000000

- 1. Signs are Type II- Type H Reflective
- 2. Color:

Background - Green Message - White

3. Message Series - C

PROJECT NO:2290-08-71 HWY:STH 38 COUNTY:RACINE PERMANENT SIGNING SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_d2\2511bn17.DGN

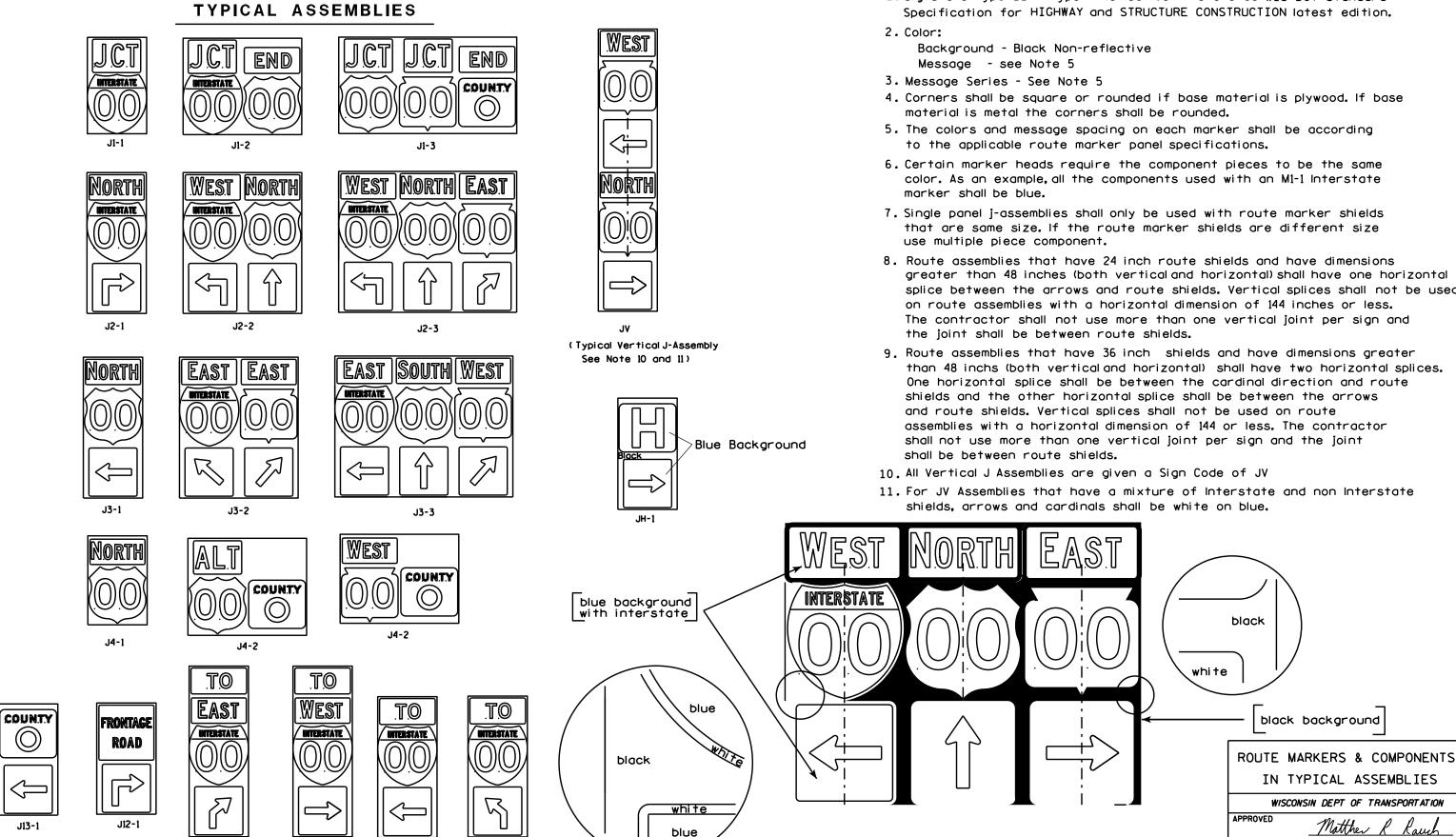
PLOT DATE: 08-NOV-2017 16:31

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

PLOT SCALE: 17.393013:1.000000

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard

areater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.



PROJECT NO:

J32-1

J22-1

J23-1

J33-1

PLOT BY: mscsja

PLATE NO. __A2-15.8

DATE 2/06/14

SHEET NO:

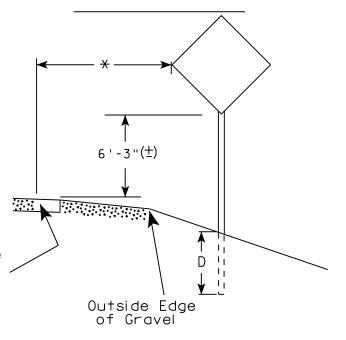
urban area

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

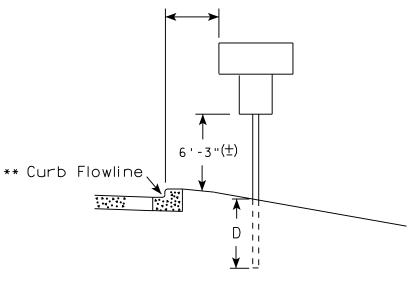
** Curb Flowline

D | White Edgeline Location

RURAL AREA (See Note 2)



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



White Edgeline
Location

Outside Edge
of Gravel

** 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.

* 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.

GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or 6'-3" (\pm) depending upon existence of a sub-sign.
- 4. J-Assemblies are considered to be one sign for mounting height.
- 5. Minimum mounting height for signs mounted on traffic signal poles is $5'-3''(\pm)$.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (\pm) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.
- 9. 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), 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" (±).

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq.Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

SHEET NO:

PROJECT NO: HWY: COUNTY:



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



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

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) 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.
- ** 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'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRE)		
	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 SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



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

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

PLOT DATE . 11-416-2016 11:35

PINT RY * \$\$ nintuser \$\$

SHEET NO:

| | |



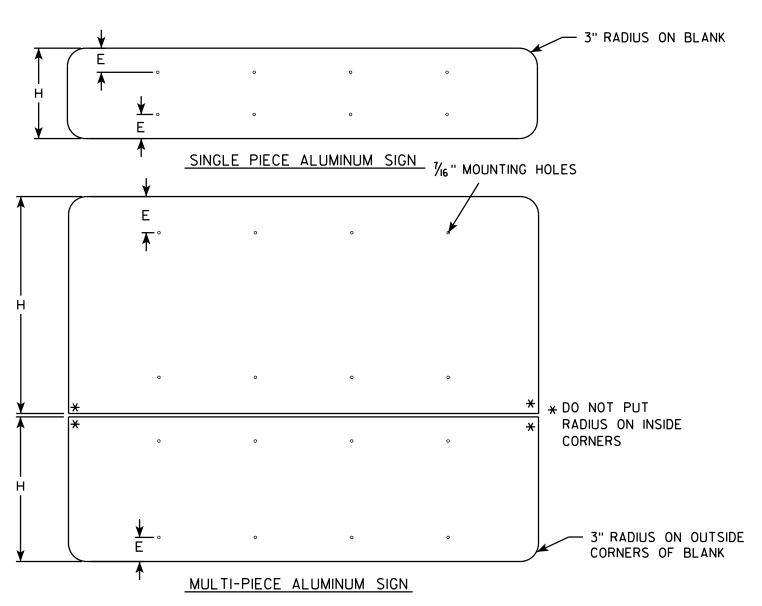
PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer

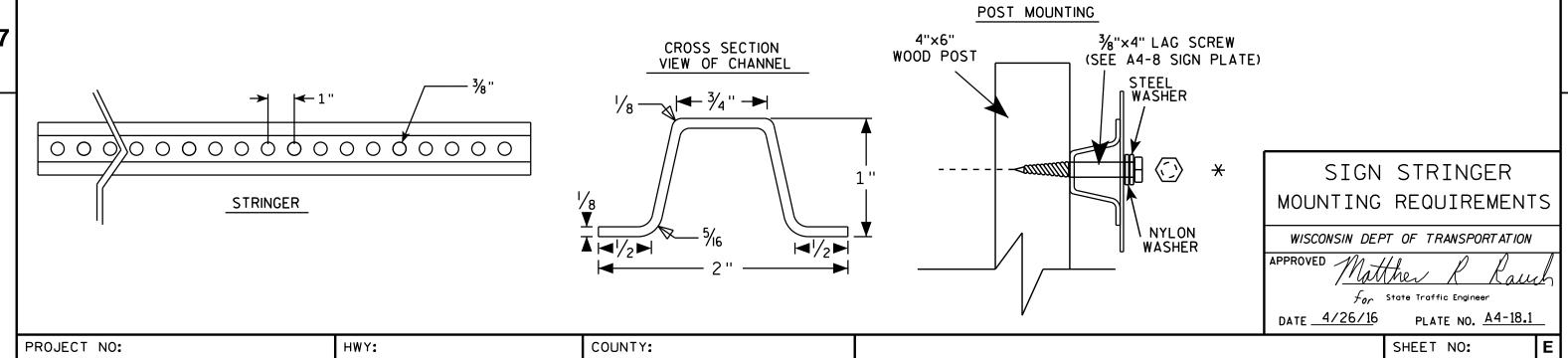




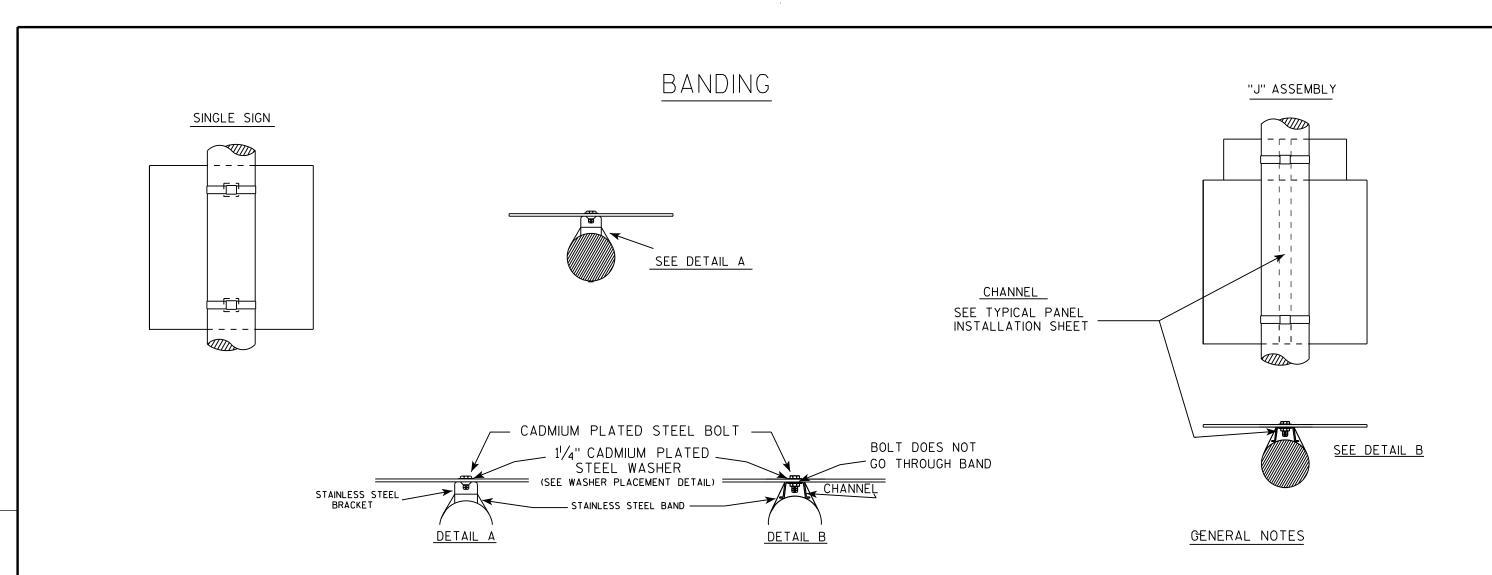
GENERAL NOTES

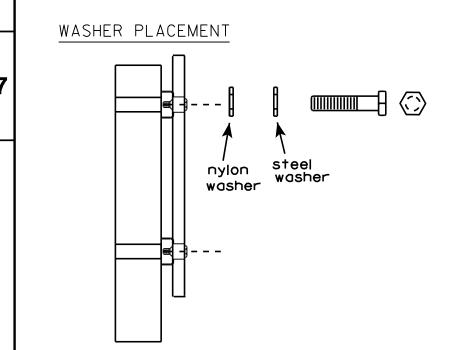
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE $\frac{7}{16}$ " DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING				NTING OLES			
7 8''	7 2"	2	16''	15''	31''	47''	63''			
84''	72"	2	17''	161/2"	331/2"	501/2"	6 7 1/2	1		
90"	72"	2	18''	18''	36''	54''	72"			
96"	90''	2	19''	191/2"	381/2''	57½"	761/2			
102"	90''	2	20"	21''	41''	61''	81''			
108''	90"	2	21''	221/21	' 43 ^l / ₂ ''	641/2"	851/21			
114''	108''	3	15''	12''	2 7 ''	42''	57''	72"	87''	102''
120''	108''	3	16''	12''	28''	44''	60"	76"	92"	108''
126"	108''	3	17''	12''	29"	46''	63''	80"	97''	114''
132"	126''	3	18''	12''	30"	48''	66''	84"	102"	120''
138''	126''	3	19"	12''	31''	50"	69"	88"	107''	126"
144''	126"	3	20"	12''	32"	52"	72"	92"	112''	132"



PLOT BY: mscj9h





HWY:

WASHERS (ALL POSTS) -

COUNTY:

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 FOR ALL TYPE H SIGNS

PLOT BY: mscsja

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED 400 1100 000 000

For State Traffic Engineer

DATE 8/16/13

713 PLATE NO. A5-9.3

SHEET NO:

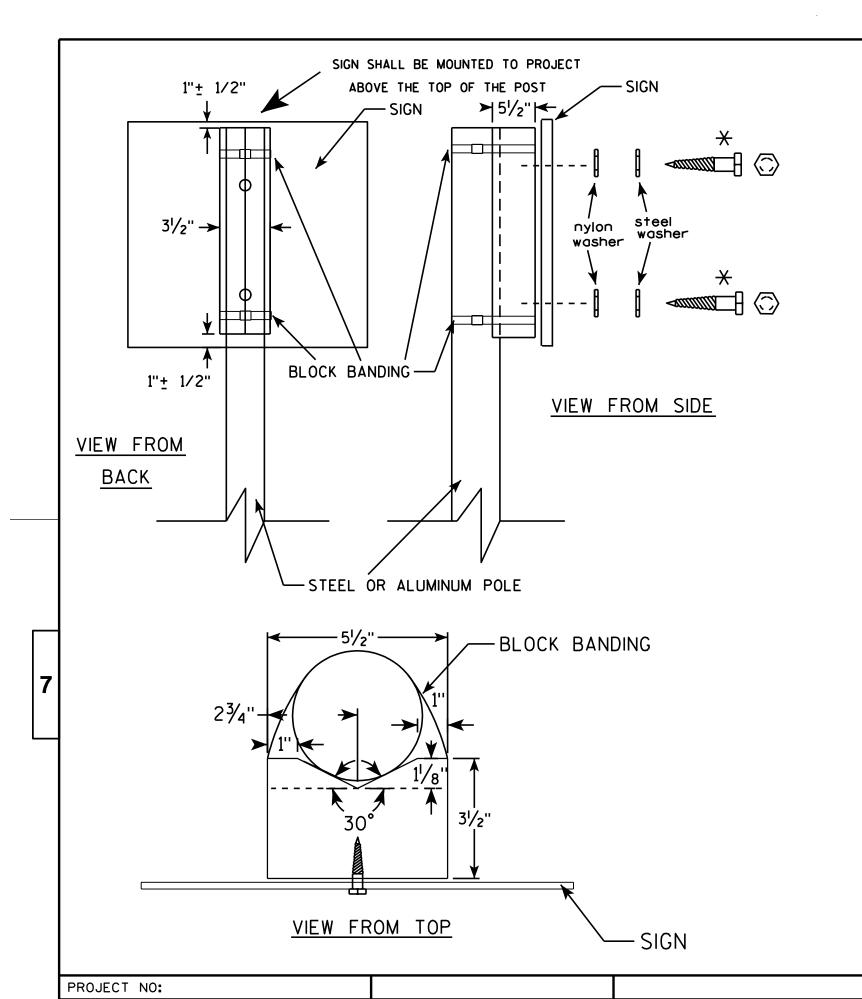
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A59.DGN

PROJECT NO:

PLOT DATE: 16-AUG-2013 13:27

PLOT NAME :

PLOT SCALE: 33.740899:1.000000



GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
 - b. Cadmium plated in accordance with ASTM Designation: B 766 TYPE 3, Class 12, or
 - c. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE 11/4" O.D. X 3/8" I.D. X 1/16"
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

X LAG BOLTS SHALL BE 3/8" X 21/2"

BLOCK BANDING DETAIL
(V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

For State Traffic Engineer

DATE 7/12/07

PLATE NO. A5-10.1

SHEET NO:

- Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

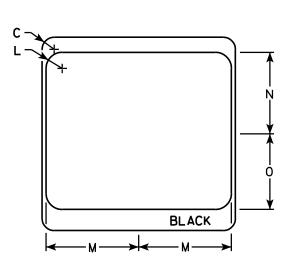
Background - White & Black - See Note 7 Message - Black

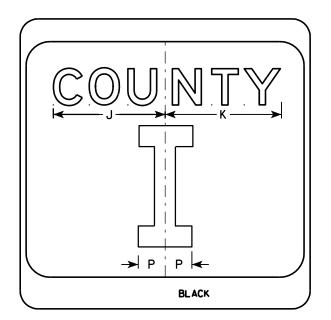
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

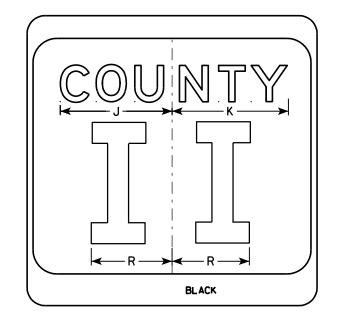
 Message Series D for 2 letters unless
 message is too big then Series C.

 Message Series C for 3 letters unless
 message is too big then Series B.
- 6. Substitute appropriate letters & optically center to achieve proper balance.
- 7. Permanent Signs

Background - Type H Reflective Detour or temporary Signs Background - Reflective







SIZE	Α	В	С	D	E	F	G	Н	I	J	K	٦	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 %	2	11 1/2	10 1/8	9 3/8	2 1/4		6 %									4.0
3	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
4	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
PRO													COUN	TV•		·				·	·		·				

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther K Rauch

Forstate Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

SHEET NO:

BLACK

M1-5A

PLOT NAME :

PLOT SCALE: 5.959043:1.000000

- 1. Sign is Type II See Note 6 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White & Black - See Note 6 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. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
- 6. Permanent Signs Background - Type H Reflective Detour or temporary Signs Background - Reflective

	BLACK BLACK
Metric equivalent for this sign is:	>

HWY:

SIZE 600 mm X 600 mm 900 mm X 900 mm 900 mm X 900 mm 900 mm X 900 mm

PROJECT NO:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1																												ļ
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 %	11 ½	1	1 1/8	11 1/4	21 1/8											4.0	. 36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 %	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	. 81

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 3/20/02 PLATE NO. M1-6.9

SHEET NO:

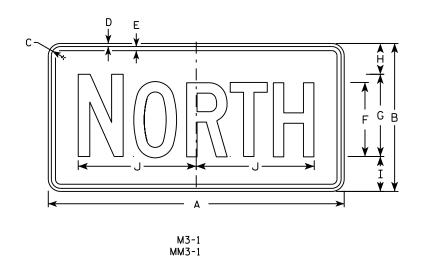
FILE NAME : C:\Users\Projects\tr_stdplate\M16.DGN

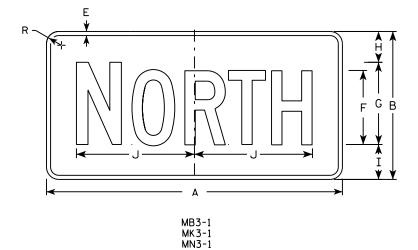
PLOT DATE: 13-OCT-2005 14:55

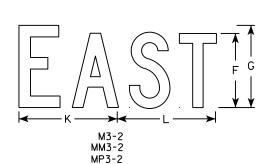
PLOT BY : DITJPH

PLOT NAME :

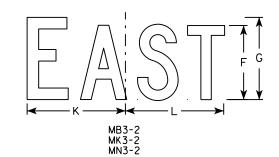
PLOT SCALE : 6.715871:1.000000

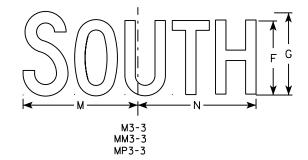


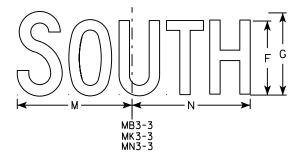


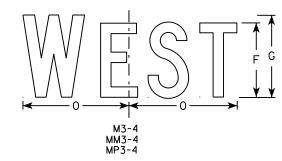


MP3-1

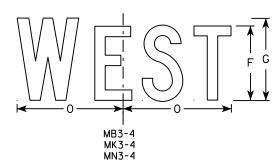








HWY:



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	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
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

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

Ε

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

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

PLOT SCALE . 11 675051.1 000000

- 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.

) A G	
	;
→ G →	
Y	

Α 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:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48.DGN

PROJECT NO:

HWY:

PLOT DATE: 10-NOV-2010 13:18

PLOT BY : ditjph

PLOT SCALE : 4.767

PLOT NAME :

PLOT SCALE: 4.767233:1.000000

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	0	R	S	Т	U	٧	w	Х	Y	Z	Area sq. ft.
$\parallel 1 \parallel$																											
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 DATE 3/9/11

PLATE NO. M4-8A.2

SHEET NO:

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

HWY:

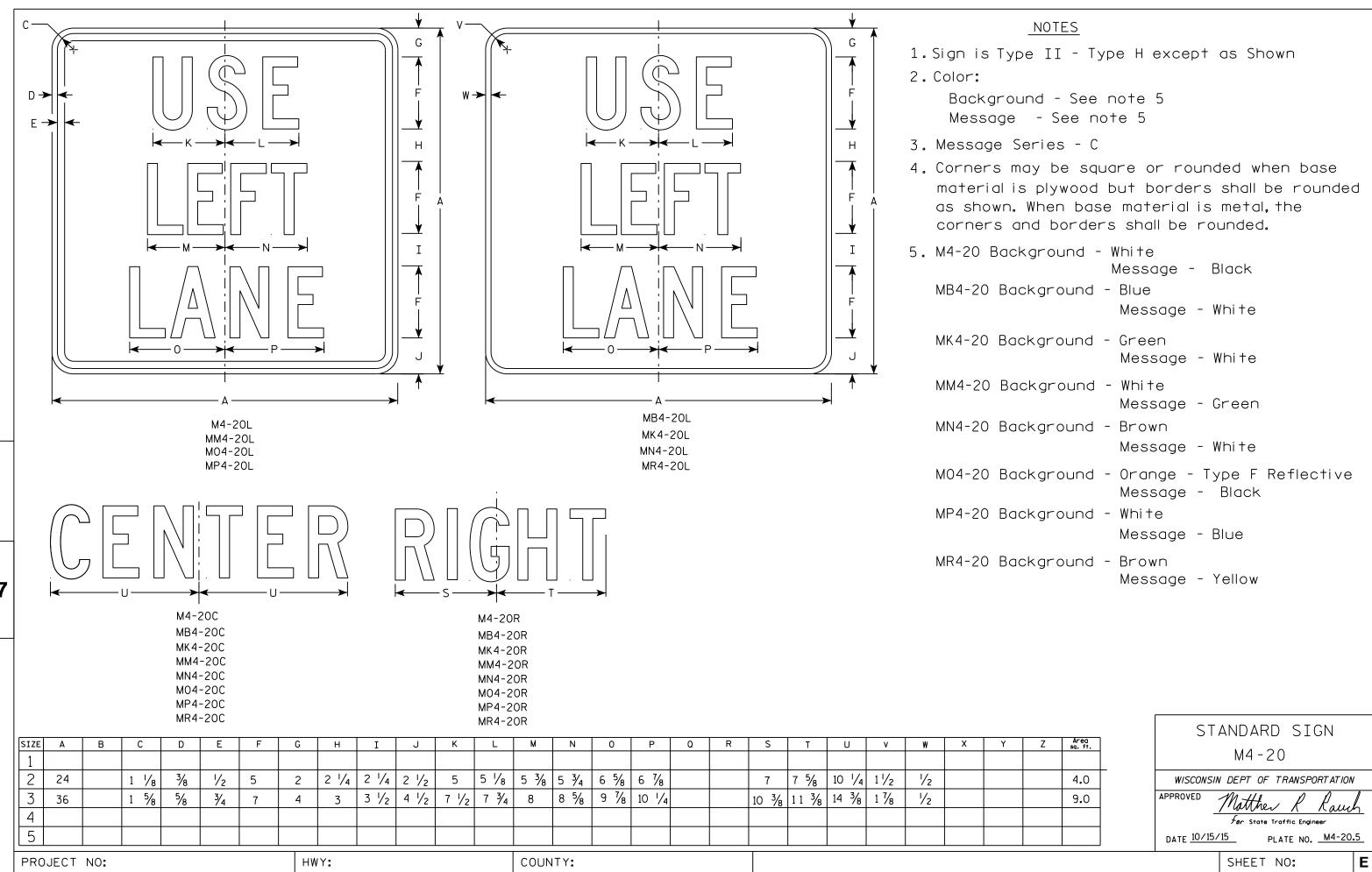
PROJECT NO:

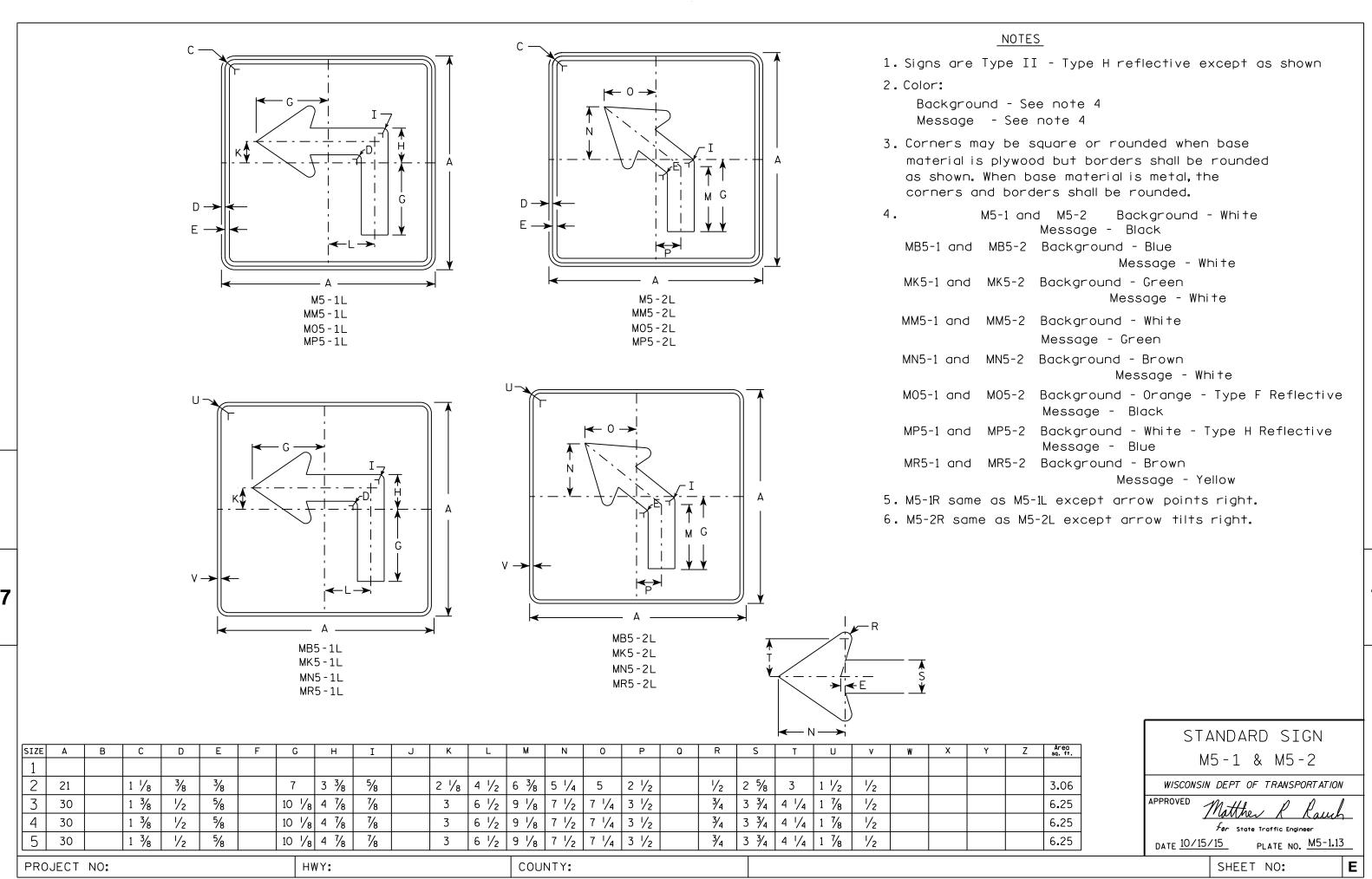
PLOT DATE: 09-MAR-2011 10:29

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 3.972696:1.000000



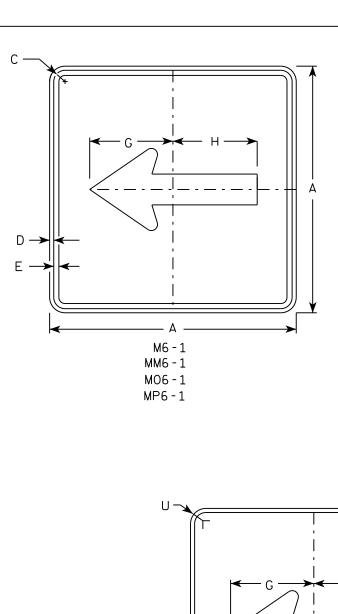


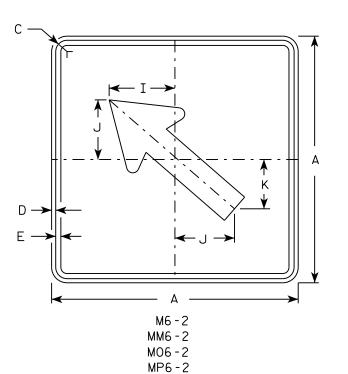
FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

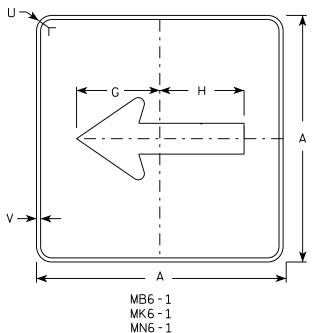
PLOT DATE . 01-DEC-2015 18:07

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

PLOT SCALE . 11 675051.1 000000

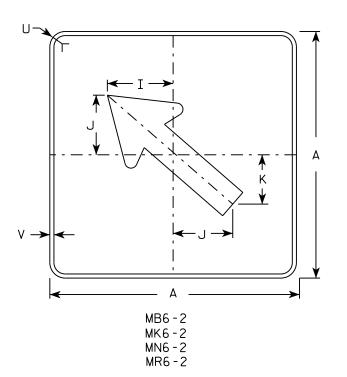






MR6-1

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

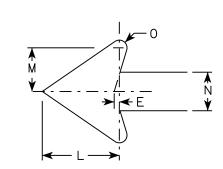
Message - Black

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 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

APPROVED

Matthew & Rawl For State Traffic Engineer

Ε

DATE 10/15/15 PLATE NO. M6-1.15

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdplote\M61 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:57

PIOT RY . \$\$ plotuser \$\$ PIOT NAMF :

PLOT SCALE . 11 675051.1 000000

- 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 - See note 5

3. Message Series - C

PLOT NAME :

- 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. The border strip and word message are reflectorized red.

A	
c —	G
	¥ F ¥
E	
D.	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
R1-2	

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	V	W	Х	Y	Z	Areg sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7 ⁄8	4	3 %																	2.71
25	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 %																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 %																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 %																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 1/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 1/8	5/8	2 3/8	2 1/4																	0.97

COUNTY:

STANDARD SIGN R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch

 f_{or} State Traffic Engineer

3/14 PLATE NO. R1-2.12

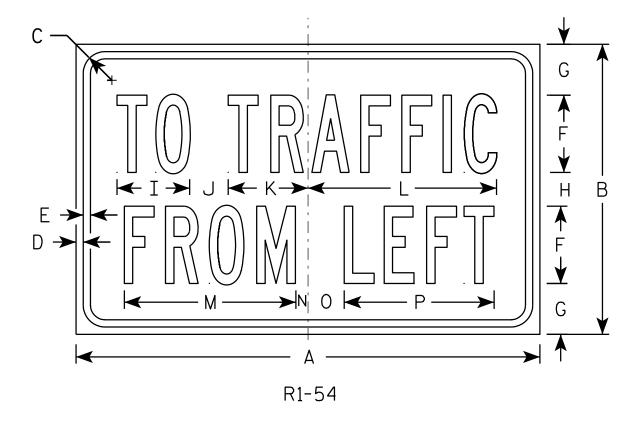
DATE 10/13/14 PLA

SHEET NO:

311221

PROJECT NO:

HWY:



- 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 - B

Z Area SIZE A 24 1 1/8 3/8 3/8 2 % 1 ¾ 3 ¾ 4 1/8 9 3/4 8 1/8 5/8 1 1/8 7 3/4 2.5 15 2 5/8 1 3/4 3 3/4 4 1/8 9 3/4 8 7/8 5/8 1 1/8 7 3/4 24 3/8 2 1 1/8 15 2.5 3 4 5 HWY: COUNTY: PROJECT NO:

STANDARD SIGN R1-54

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

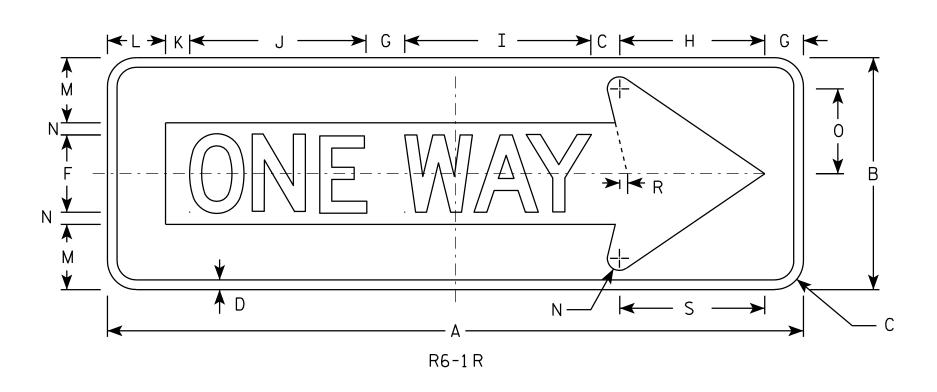
APPROVED

for State Traffic Engineer

DATE 12/03/10

PLATE NO. R1-54.2

PLOT NAME : PLOT BY: dotsja



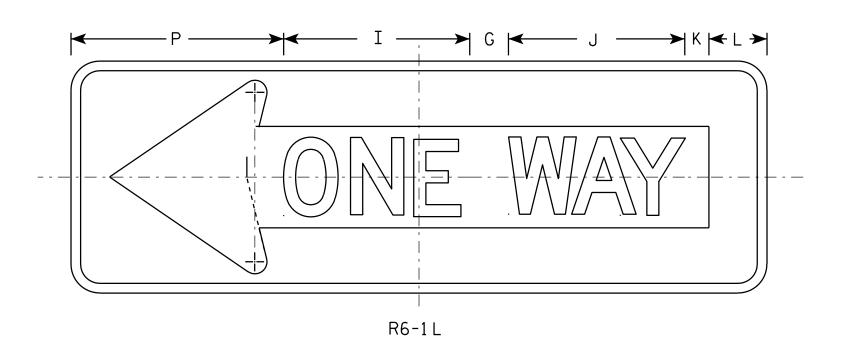
<u>NOTES</u>

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

Background - BLACK

Message - BLACK LEGEND & WHITE ARROW & BORDER

- 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.



SIZE	A	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	Arec sq. f
1																											
25	36	12	1 1/2	1/2		4	2	7 1/2	9 %	9 1/8	1 1/4	3	3 %	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	14 1/2	13 %	1 1/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.
3	54	18	2 1/4	3/4		6	3	11 1/4	14 1/2	13 %	1 1/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.
4	54	18	2 1/4	3/4		6	3	11 1/4	14 1/2	13 %	1 1/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.7
5																											

STANDARD SIGN R6-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

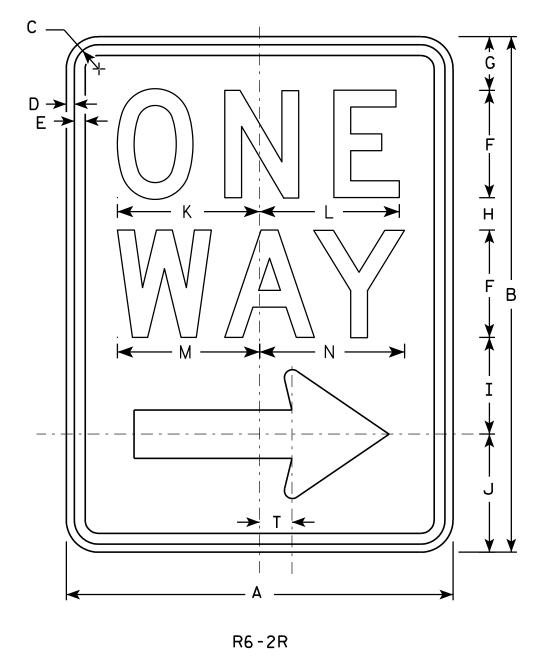
Matther & Raw

DATE 12/17/10

O PLATE NO.R<u>6-1.2</u> SHEET NO:

PLOT DATE: 17-DEC-2010 14:11 PLOT BY: dotsja

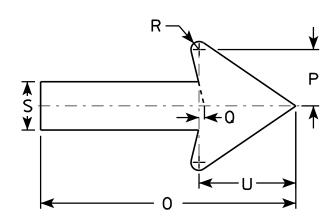
PROJECT NO:



- 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 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. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	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
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 ½	6 %	6 1/2	6 %	6 3/4	11 1/8	2 %	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 %	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2	6 %	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 1/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 %	1/2	3/4	4 3/4	3	9					
4	36	48	1 1/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 %	1/2	3/4	4 3/4	3	9					
5																										

COUNTY:

STANDARD SIGN R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 11/2/10

PLATE NO. R6-2.8 SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R62.DGN

HWY:

PROJECT NO:

PLOT DATE: 02-NOV-2010 15:25

PLOT BY: ditjph

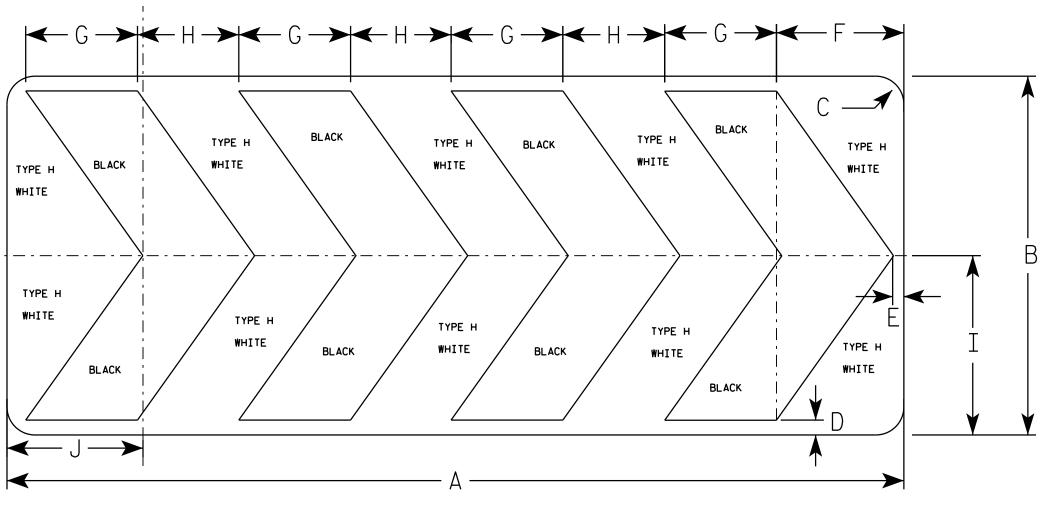
PLOT NAME :

PLOT SCALE: 4.469282:1.000000

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

Background - WHITE Message - BLACK

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.



R6-4B

SIZE	Δ	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																											
25	60	24	1 1/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 1/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN R6-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

State Traffic Engineer

DATE 8/21/14

SHEET NO:

PROJECT NO:

PLATE NO. R6-4.3



- 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.

R11-3 ** See Note 5

SIZE A В С D Е G 5/8 1 3/8 1/2 1 1/8 | 15 1/4 | 8 10 3/4 8 3/8 4 3/4 6 3/4 36 18 4 3 2 1/2 2 2 11 1/8 6 1/2 2 7 1/8 4.5 1/2 17 3/8 13 1/8 30 $1\frac{3}{8}$ 5/8 4 1/4 3 3/8 16 5/8 1 1/2 23 | 13 1/4 | 1 3/4 3 1/2 11 1/8 12.5 6 10 11 2M 4 1/4 3 3/8 16 5/8 1 1/2 23 | 13 1/4 | 1 3/4 30 17 3/8 13 1/8 10 3 1/2 12.5 3 4 5

COUNTY:

STANDARD SIGN R11-3

WISCONSIN DEPT OF TRANSPORTATION

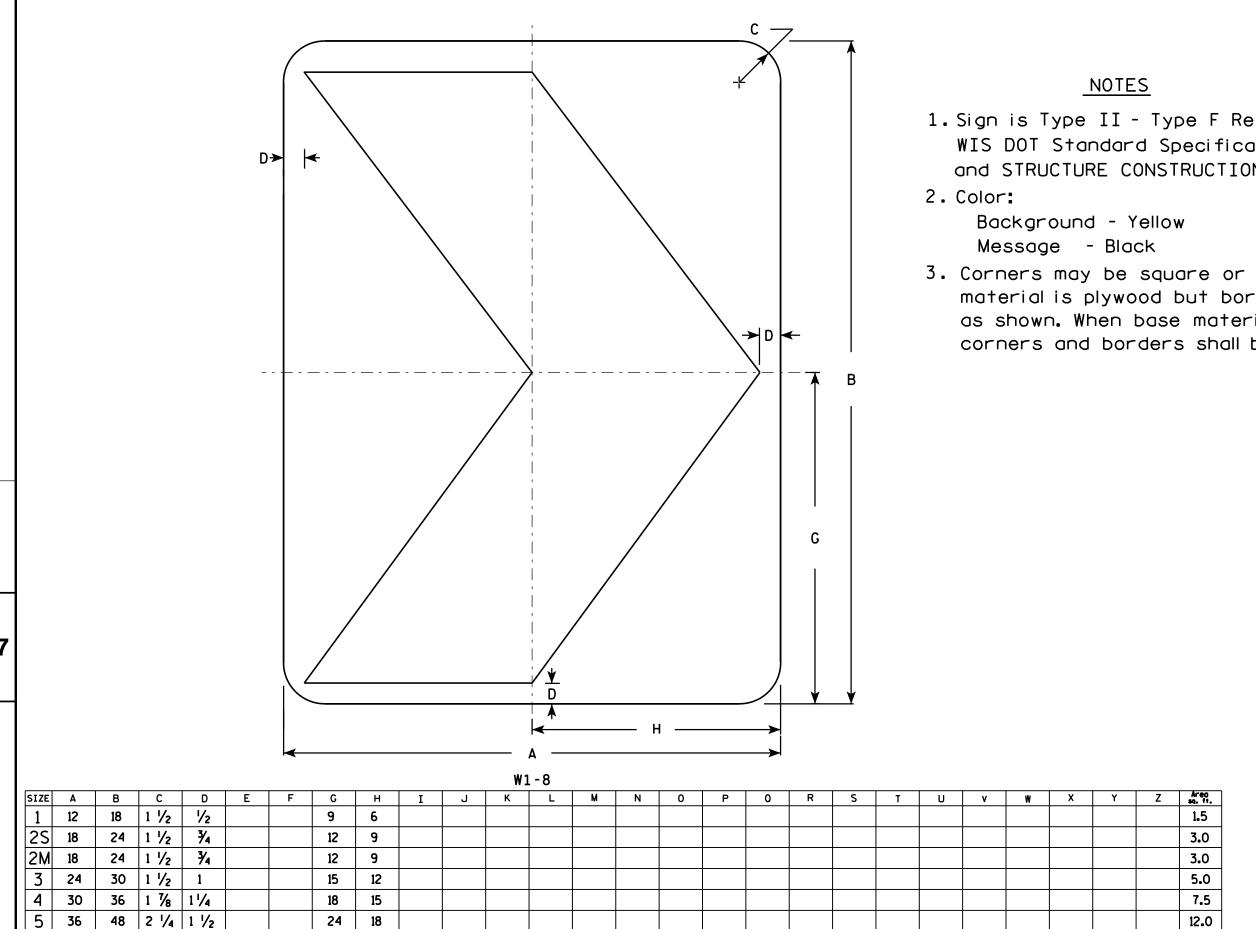
APPROVED

Matthew R Rauch DATE 3/15/17 PLATE NO. R11-3.8

SHEET NO:

HWY:

PROJECT NO:



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

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

> STANDARD SIGN W1 - 8

WISCONSIN DEPT OF TRANSPORTATION

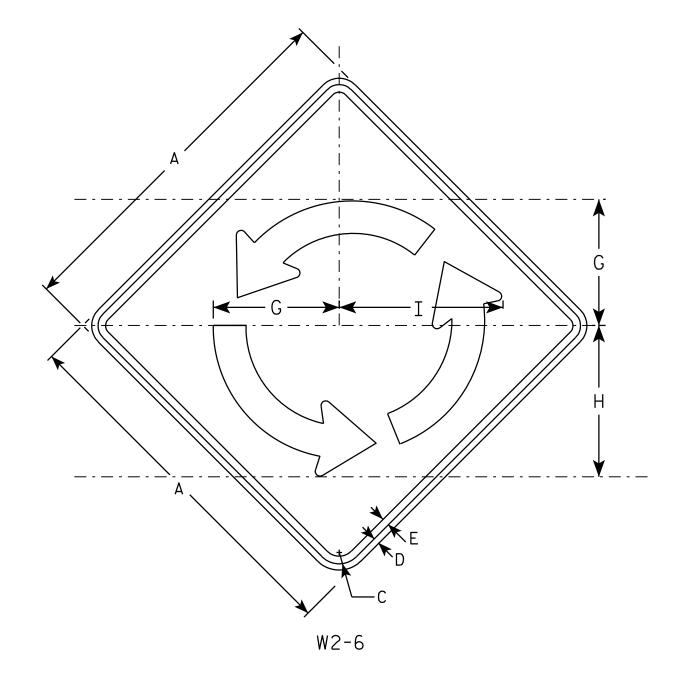
APPROVED

For State Traffic Engineer PLATE NO. W1-8.6

DATE 6/7/10

SHEET NO:

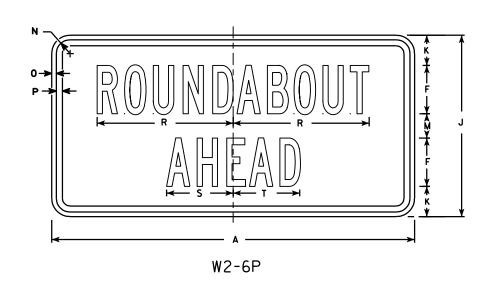
PROJECT NO:



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

Background - YELLOW 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.



																									W2-6	W2-6P
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Area sq. ft.	Area sq. ft.
1																										
25	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 ½	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 ½	5 ½					6.25	3.12
2M	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 ½	5 ½					6.25	3.12
3	36		1 %	5/8	3/4	5	12 1/2	15	16 1/4	18	2 %		2 3/4	1 1/8	3/8	1/2		14	7	6 3/4					9.00	4.50
4	48		2 1/4	3/4	1	6	16 %	20	16 1/4	24	4 %		3 %	1 3/8	1/2	5/8		17	8 1/4	8 1/4					16.0	8.0
5									·	·																
													•			•										

STANDARD SIGN W2 - 6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

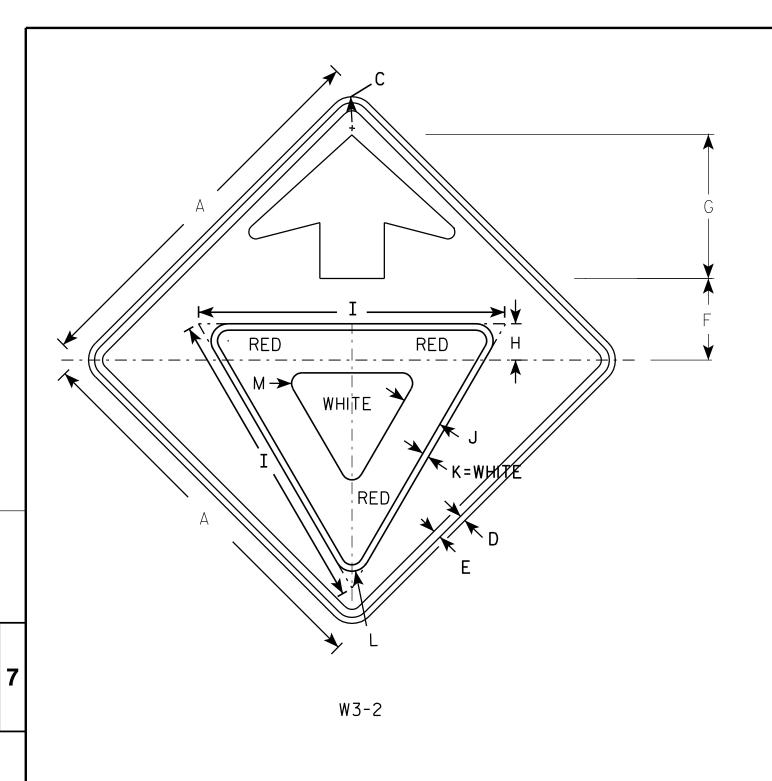
DATE <u>6/29/12</u>

SHEET NO:

PROJECT NO:

PLOT BY: mscsja

PLATE NO. <u>W2-6.5</u>



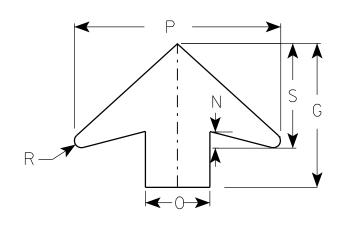
<u>NOTES</u>

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

Background - YELLOW

Arrow & Border - BLACK

Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	Α	В	С	D	Ε	F	G	Н	I	C	K	L	М	N	0	P	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	3	25	3 %	1/2	1 3/8	1 /8	1 1/4	5	16		1/2	8								6.25
2S	36		1 %	5/8	3/4	7 1/2	13 1/2	3 %	28	3 3/4	5/8	1 1/2	1	1 %	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 %	5/8	3/4	7 1/2	13 1/2	3 %	28	3 3/4	5/8	1 1/2	1	1 %	6	19 1/4		5/8	9 3/4								9.0
3	36		1 %	5/8	3/4	7 1/2	13 1/2	3 %	28	3 3/4	5/8	1 1/2	1	1 %	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 %		7 /8	13								16.0
5	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 %		7 /8	13								16.0

STANDARD SIGN W3-2

WISCONSIN DEPT OF TRANSPORTATION

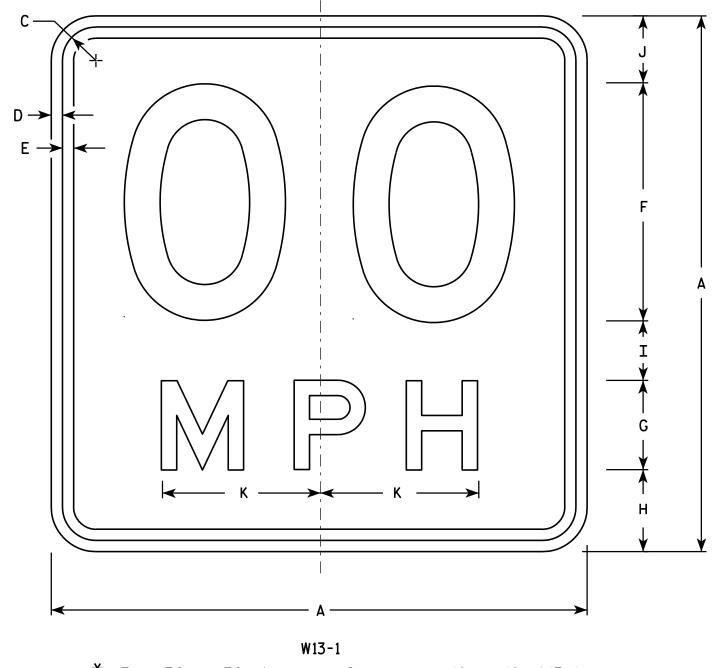
APPROVED Matthew

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

SHEET NO:

PROJECT NO:



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

Background - Yellow Message - Black

- 3. Message Series See Note 6
- 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 and optically space about centerline to achieve proper balance.
- 6. Line 1 is Series D Line 2 is Series E

* For 30" \times 30" Warning Signs, use 18" \times 18" W13-1 signs. For 36" \times 36" Warning Signs, use 24" \times 24" W13-1 signs.

SIZE	A	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	18		1 1/8	3∕8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2S	18		1 1/8	3∕8	3/8	8	3	2 3/4	2	2 1/4	5 %																2.25
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
4	36		1 1/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Ram

 f_{or} State Traffic Engineer S1/12 PLATE NO. W13-1.16

DATE <u>5/31/12</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W131.DGN

PLOT DATE: 31-MAY-2012 10:57

PLOT NAME :

PLOT BY: mscsja

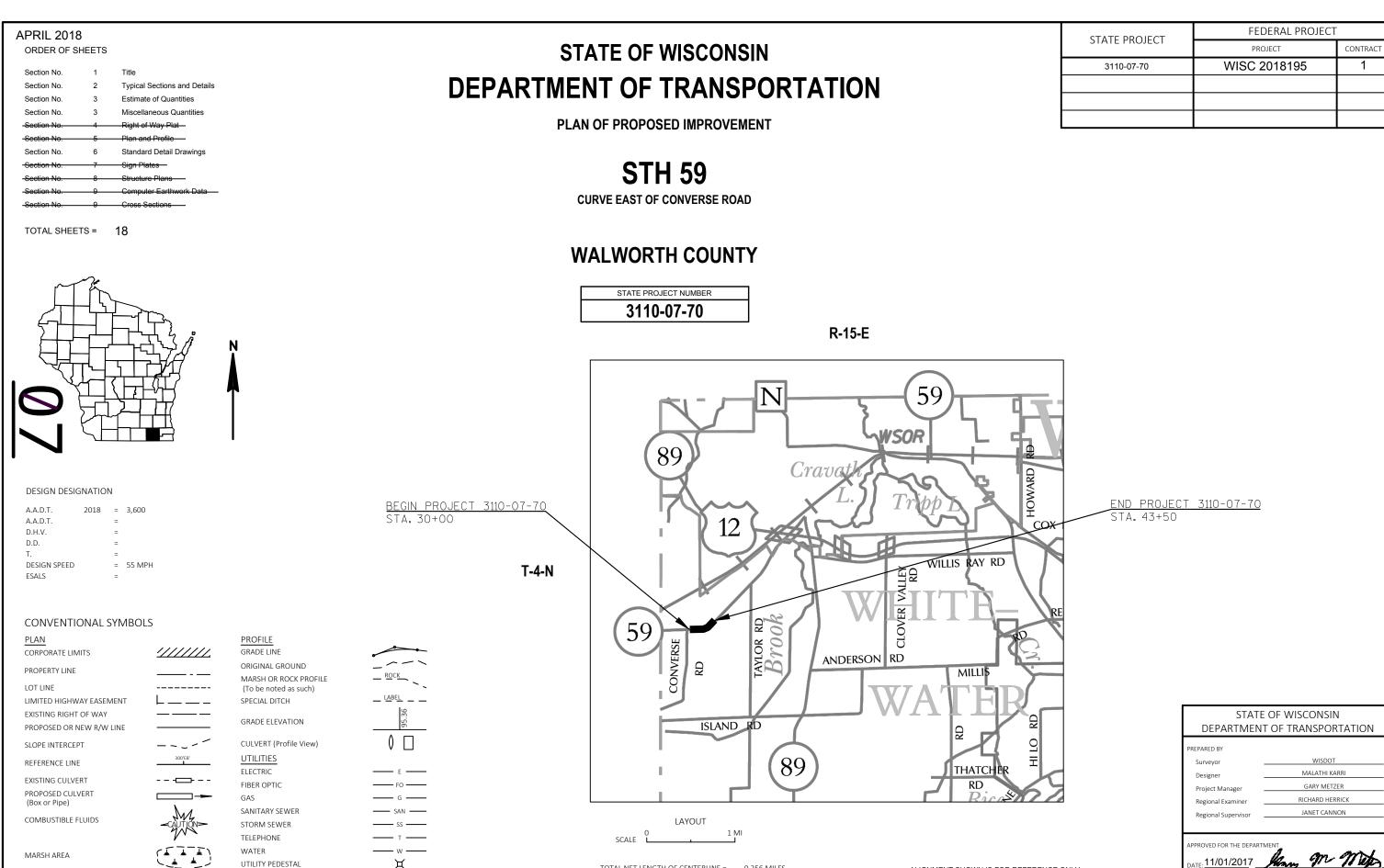
PLOT SCALE: 3.225232:1.000000



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov



WOODED OR SHRUB AREA

TELEPHONE POLE

₫ Ø TOTAL NET LENGTH OF CENTERLINE = 0.256 MILES

ALIGNMENT SHOWN IS FOR REFERENCE ONLY.

WB

STANDARD ABBREVIATIONS

AADT ANNUAL AVERAGE DAILY TRAFFIC BM **BENCHMARK BMP** BEST MANAGEMENT PRACTICE C/L **CENTER LINE** CONC CONCRETE CTH **COUNTY TRUNK HIGHWAY** CY **CUBIC YARD** D **DEGREE OF CURVE** DHV **DESIGN HOUR VOLUME** DD **DIRECTIONAL DISTRIBUTION** Χ EAST GRID COORDINATE EB EASTBOUND **ECIP** EROSION CONTROL IMPLEMENTATION PLAN **ESALS EQUIVALENT SINGLE AXLE LOADS** FT **FOOT** INL **INLET** LEFT LT LENGTH OF CURVE LF LINEAR FOOT LS **LUMP SUM** MGR MANAGER MH MANHOLE NORTH Ν NORTH GRID COORDINATE NB NORTHBOUND **PAVT PAVEMENT** PT POINT PCC POINT OF COMPOUND CURVE PC POINT OF CURVATURE PΙ POINT OF INTERSECTION PRC POINT OF REVERSE CURVATURE PT POINT OF TANGENCY PROJ **PROJECT** R **RADIUS** SB **SOUTHBOUND** SY **SQUARE YARD** SDD STANDARD DETAIL DRAWING STH STATE TRUNK HIGHWAY STA STATION Т TANGENT Т TRUCKS (PERCENT OF) USH **UNITED STATES HIGHWAY** VAR VARIABLE

WESTBOUND

ORDER OF SECTION 2 DETAIL SHEETS

TYPICAL SECTIONS
CONSTRUCTION DETAIL
PLAN DETAIL
PAVEMENT MARKING
TRAFFIC CONTROL

GENERAL NOTES

NO UTILITY FACILITIES ARE IDENTIFIED IN THE PLAN. IDENTIFY ALL UTILITIES IN THE AREA BY CONTACTING DIGGERS HOTLINE OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA, AS REQUIRED PER STATUTES.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. NO WORK MAY BEGIN UNTIL PROPER TRAFFIC CONTROL DEVICES ARE PLACED AND APPROVED BY THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR RESHAPING AND FINISHING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY THEIR OPERATION OUTSIDE THE NORMAL CONSTRUCTION LIMITS.

PROJECT CONTACT:

GARY METZER, P.E.
WISDOT PROJECT MANAGER
141 NW BARSTOW STREET
WAUKESHA, WI 53187
PHONE: (262) 548-5685
CELL: (414) 750-1633
GARY.METZER@DOT.WI.GOV

DNR CONTACT:

CRAIG WEBSTER

141 NW BARSTOW STREET, ROOM 180 WAUKESHA, WI 53188 PHONE: (262) 574-2141 CELL: (414) 303-3011 CRAIG.WEBSTER@WI.GOV

EROSION CONTROL GENERAL NOTES

EROSION CONTROL ITEMS ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL ITEMS SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE ITEM IS NO LONGER REQUIRED.

WHEN PERFORMING ROADWAY CLEANING OPERATIONS, THE CONTRACTOR SHALL USE EQUIPMENT HAVING VACUUM OR WATERSPRAY MECHANISM TO ELIMINATE THE DISPERSION OF DUST. IF VACUUM EQUIPMENT IS EMPLOYED, IT SHALL HAVE SUITABLE SELF-PARTICULATE COLLECTIONS TO PREVENT DISCHARGE FROM THE COLLECTION BIN INTO THE ATMOSPHERE.

REFER TO EROSION CONTROL SPECIAL PROVISIONS FOR FURTHER REQUIREMENTS.

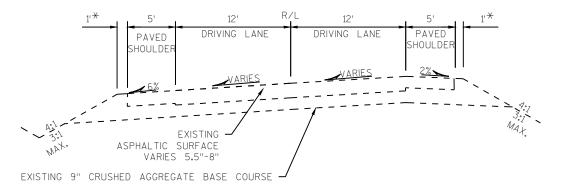


PROJECT NO: 3110-07-70 HWY: STH 59 COUNTY: WALWORTH GENERAL NOTES SHEET: E

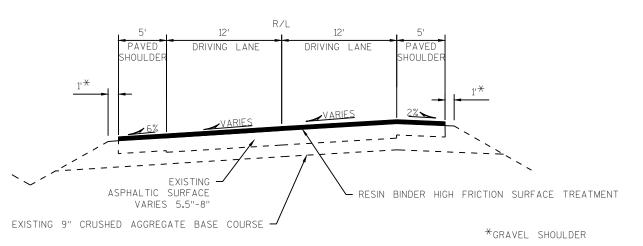
FILE NAME : ______ PLOT BY : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

2

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EXISTING TYPICAL SECTION STH 59 STA. 30+00 - STA. 43+50



FINISHED TYPICAL SECTION
STH 59
STA. 30+00 - STA. 43+50

PROJECT NO: 3110-07-70 HWY: STH 59 COUNTY: WALWORTH TYPICAL SECTIONS SHEET **E**

10/16/2017 2:40 PM

PLOT DATE :

PLOT BY: HAYNES, RONNIE

PLOT NAME :

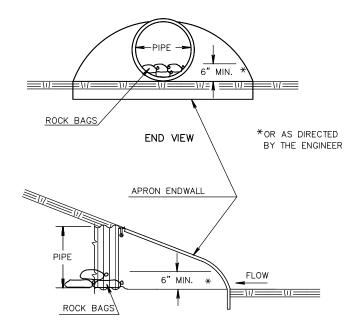
PLOT SCALE :

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OUT NAME - 020301_ts

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SIDE VIEW

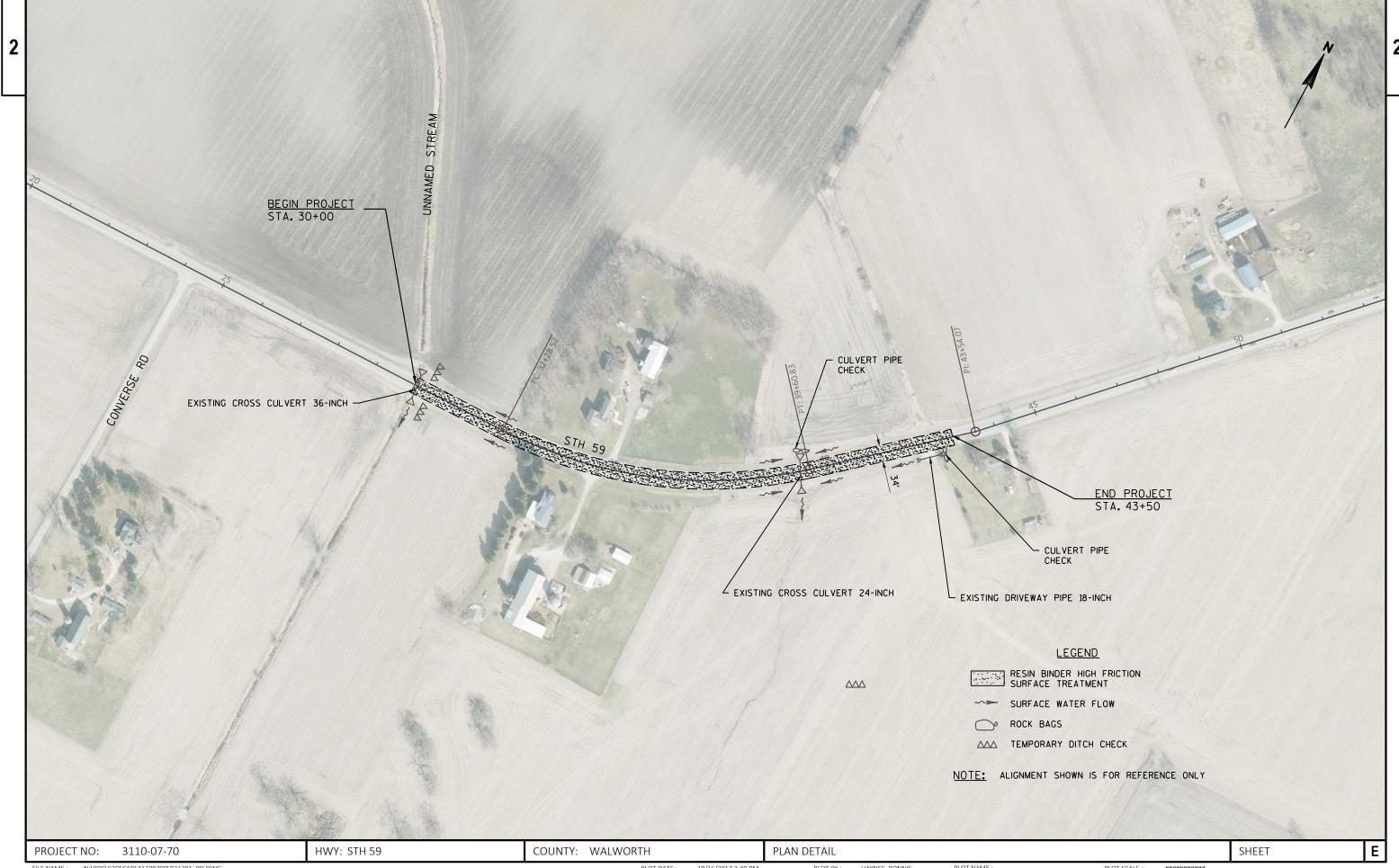
CULVERT PIPE CHECK

PLACE AT UPSTREAM END OF CULVERTS

ROCK BAG DETAIL

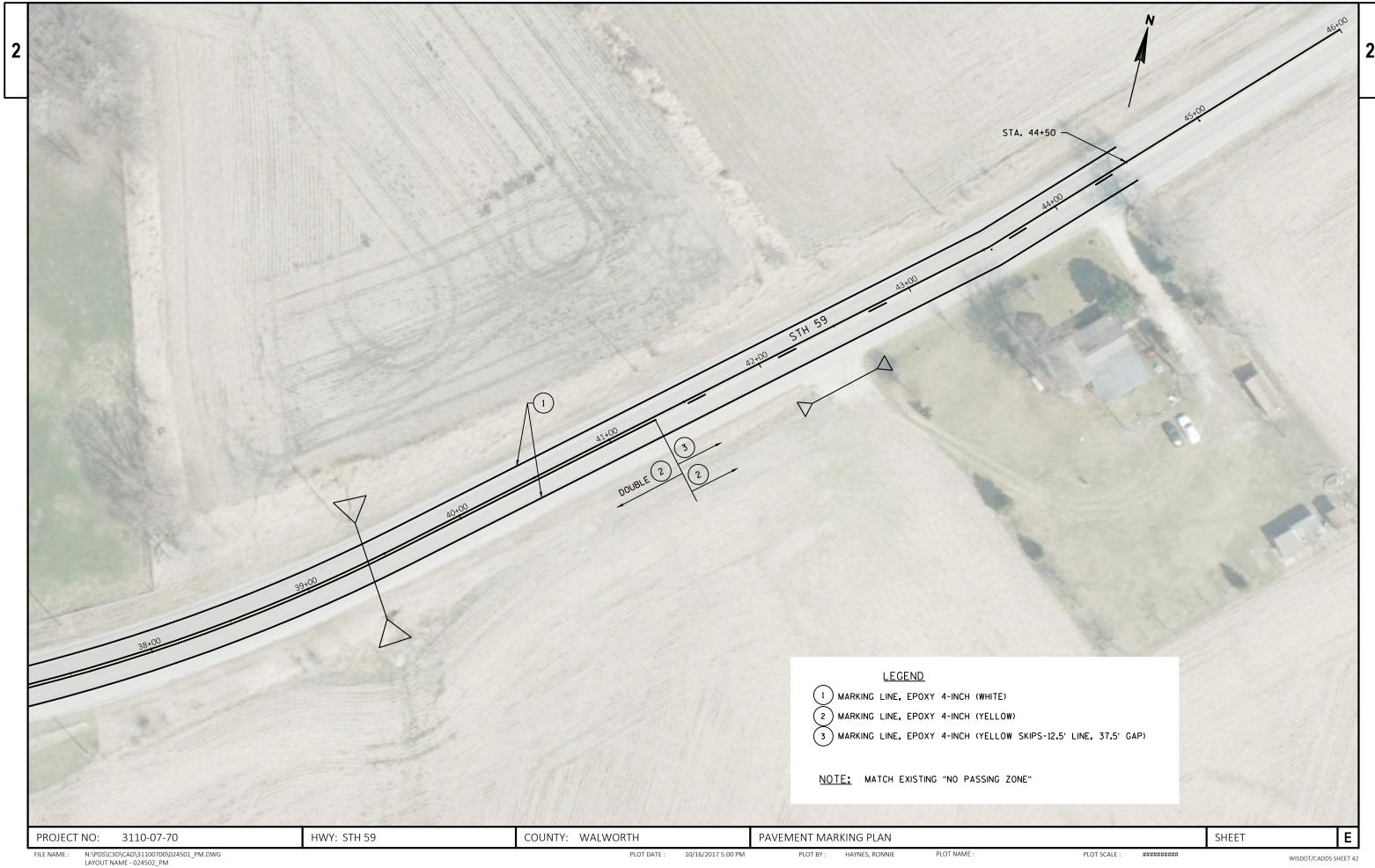
	ATED BAG SIZE "X12"X6"
PIPE SIZE	ESTIMATED NUMBER OF BAGS
12"	1
15"	2
18"	2
24"	3
30"	5
36"	7
42"	7

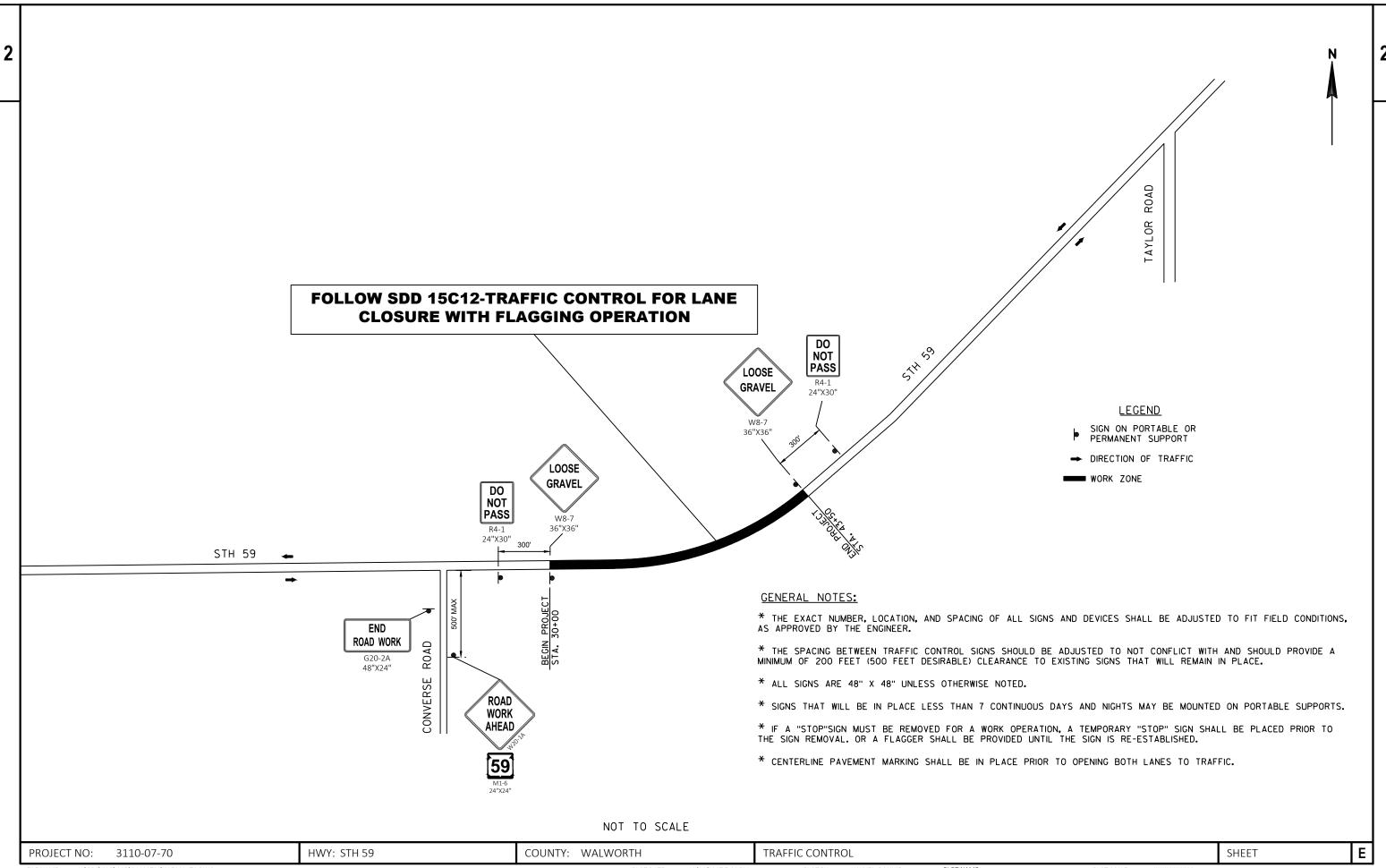
PROJECT NO: 3110-07-70 HWY: STH 59 COUNTY: WALWORTH CONSTRUCTION DETAIL SHEET **E**



FILE NAME: N:\PDS\C3D\CAD\\31100700\021201_PD.DWG PLOT DATE: 10/16/2017 3:49 PM PLOT BY: HAYNES, RONNIE PLOT NAME: PLOT NAME: PLOT SCALE: ########### WISDOT/CADDS SHEET 42 LAYOUT NAME - 021201_pd







Treatment

Estimate Of Quantities By Plan Sets

3110-07-70

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Line	Item	Item Description	Unit	Total	Qty
0038	619.1000	Mobilization	EACH	0.330	0.330
0046	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0054	628.7504	Temporary Ditch Checks	LF	20.000	20.000
0056	628.7555	Culvert Pipe Checks	EACH	7.000	7.000
0078	643.0310.S	Temporary Portable Rumble Strips	LS	1.000	1.000
8800	643.0900	Traffic Control Signs	DAY	32.000	32.000
0098	643.5000	Traffic Control	EACH	0.330	0.330
0100	646.1020	Marking Line Epoxy 4-Inch	LF	7,812.000	7,812.000
0132	SPV.0180	Special 01. Resin Binder High Friction Surface	SY	5,100.000	5,100.000

MOBILIZATIONS EF LOCATION STH 59 TOTAL 0010	ROSION CONTROL 628.1905 EACH 1	TEMPORARY D LOCATION STA 30+00 TOTAL 0010	TCH CHECKS 628.7504 LF 20 20	CULVERT PIPE CH LOCATION STA 39+50 STA 42+25 TOTAL 0010	HECKS 628.7555 EACH 3 2 5
		RIPS 0310.S LS 1		TRAFFIC CONTROL SIGNS 643.0900 DAYS 0-07-70 32 AL 0010 32	
29 29 29 *CENTERLINE	TION TO STATION LOCATION +00 - 44+50 STH 59 EB EDGE LINE +00 - 44+50 STH 59 WB EDGE LINE +00 - 44+50 STH 59 CENTERLINE TOTAL 0010 TO BE PLACED TWICE - AFTER PLACING HFST	646.1020 LF 1550 1550 4712 7812 AND AFTER FINAL	**PAVEMENT MARKING REM	RESIN BINDER HIGH FRICTION SURFACE TREATMENT ** SPV.0180.01 LOCATION SY STH 59 5100 TOTAL 0010 5100 OVALS ARE INCIDENTAL TO ITEM SPV.0180.01, PER SP	PECIAL PROVISION.
SWEEP. EDG PROJECT NO: 3110-07-70 FILE NAME:	ELINES TO BE PLACED AFTER FINAL SWEEP. HWY: STH 59	COUNTY: WALWORTH PLOT DATE:	MISCELLANEOUS QUAN		SHEET:

Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
I5C08-18A	LONGITUDINAL MARKING (MAINLINE)
I5C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
I5C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
I5D38-02B	ATTACHMENT OF SIGNS TO POSTS

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GENERAL NOTES

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

TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

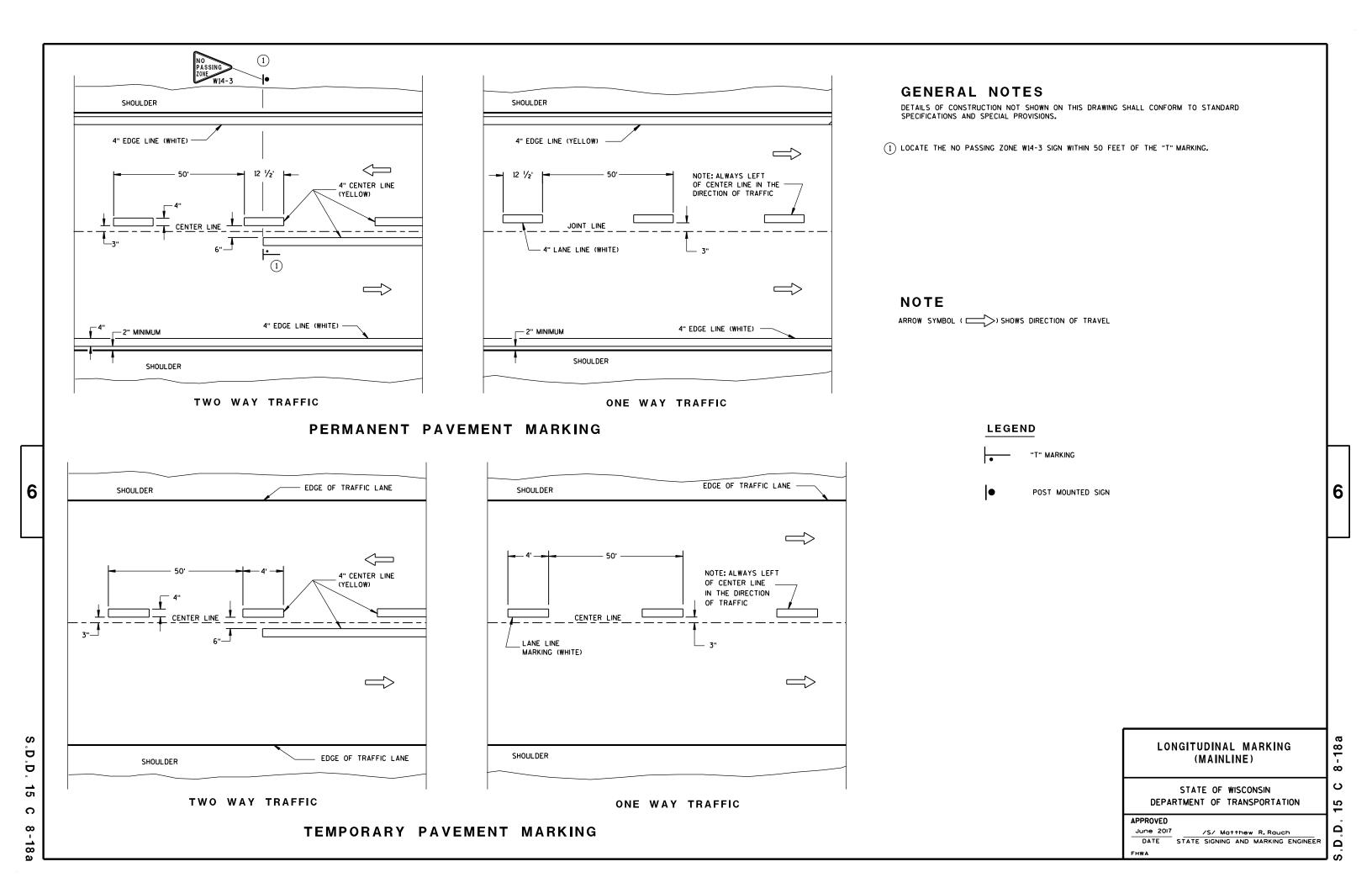
APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STOP/SLOW PADDLE ON SUPPORT STAFF

5' MIN.

WORK

AHEAD

48" X 24"

END ROAD WORK G20-2A

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W20-1A

GENERAL NOTES

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT. REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

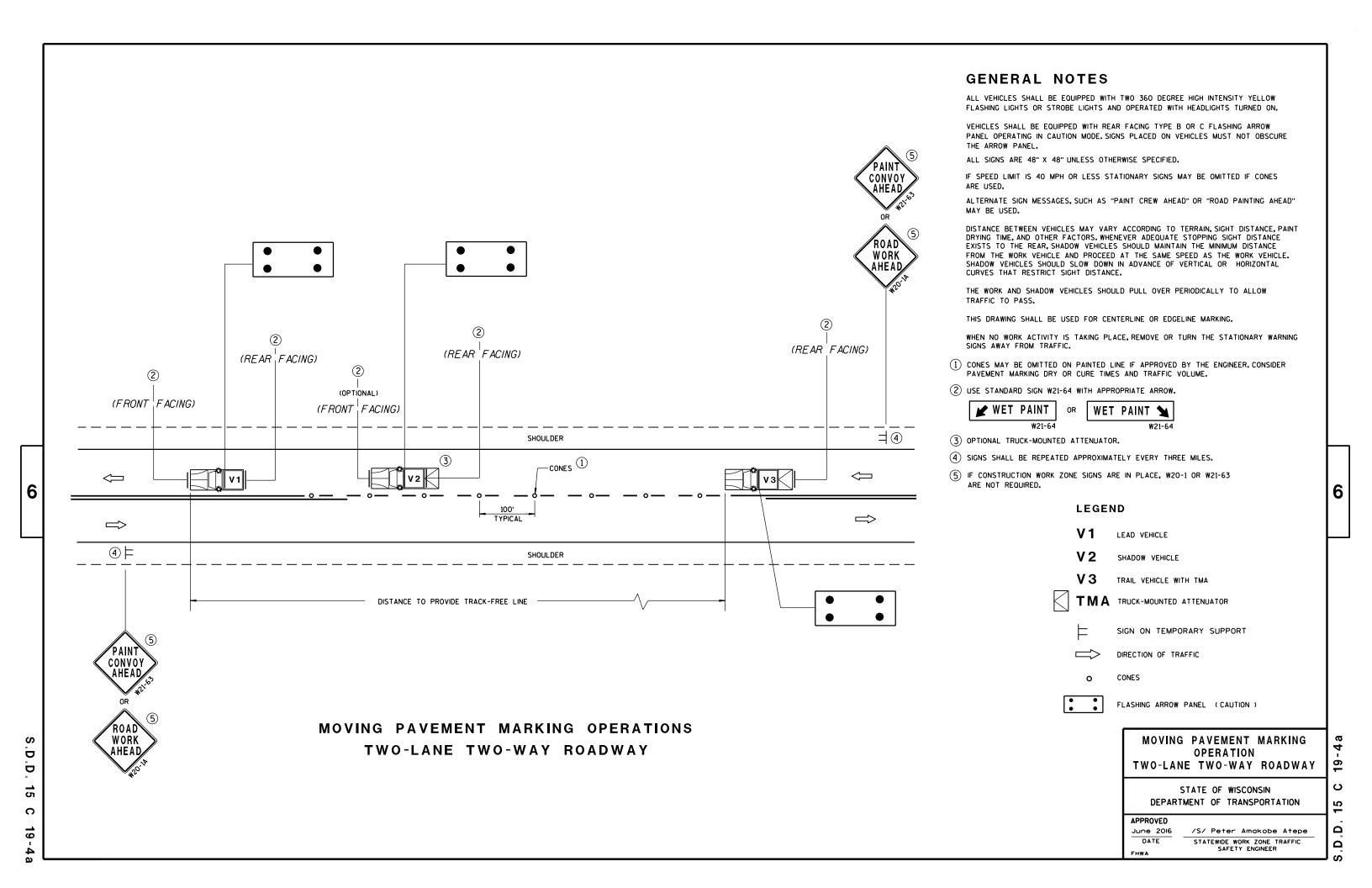
- 1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

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TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF	
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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

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

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

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 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 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

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

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 /S/ Andrew Heidtke DATE WORK ZONE ENGINEER FHWA

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Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov