#### APR 14, 2020 ORDER OF SHEETS

Section No. 1 Title
Section No. 2 Typical Sections and Details
Section No. 3 Estimate of Quantities
Section No. 3 Miscellaneous Quantities

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

Section No. 8 Structure Plans

Section No. 9 Cross Sections

TOTAL SHEETS =

DESIGN DESIGNATION			MITCHELL INT.		HOWARD AV	
A.A.D.T.	2019	=	183,000	=	140,000	
A.A.D.T.		=		=		
D.H.V.		=	8.6%	=	8.6%	
D.D.		=	55/45	=	55/45	
T.		=	17.5%	w	17.5%	
DESIGN SPEED	)	=	БО МРН	=	60 MPH	
ESALS		=	252,500	=	119,000	

#### CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS	<u> </u>	GRADE LINE	
PROPERTY LINE	·····	ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	
LIMITED HIGHWAY EASEMENT	<del></del>	SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE	<del></del>	GRADE ELEVATION	95.36
SLOPE INTERCEPT		CULVERT (Profile View)	≬ □
REFERENCE LINE	300,E8,	UTILITIES	_
EXISTING CULVERT		ELECTRIC FIBER OPTIC	—— FO ——
PROPOSED CULVERT (Box or Pipe)		GAS	6
•	M	SANITARY SEWER	SAN
COMBUSTIBLE FLUIDS	-caution-	STORM SEWER	ss
	W.	TELEPHONE	— т —
MARSH AREA	(III)	WATER	W
MANDITANIA		UTILITY PEDESTAL	Ħ
	۲	POWER POLE	Ь

TELEPHONE POLE

ø

# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

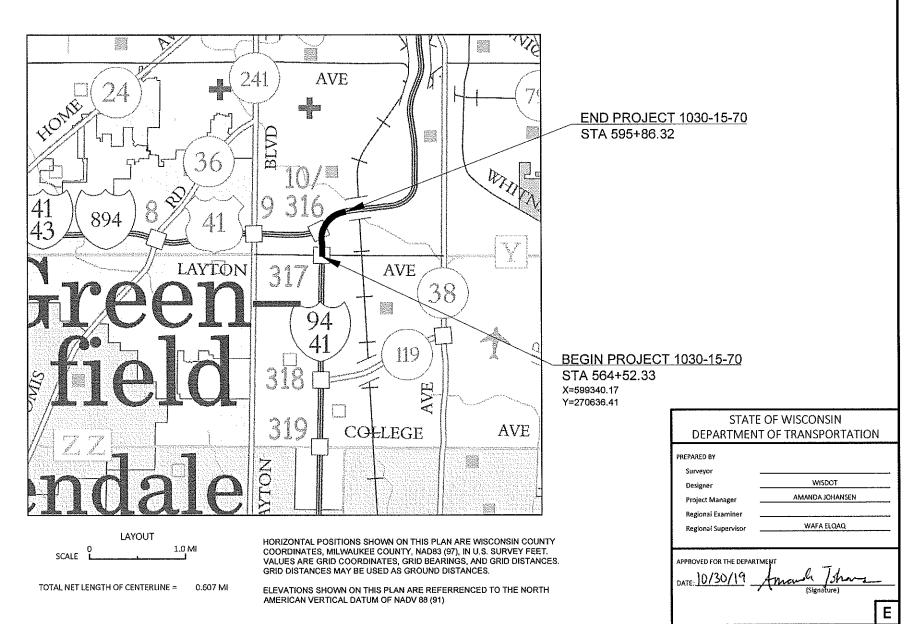
## **IH 94**

N-S & S-N CURVE THRU THE MITCHELL IC

## IH 94

## **MILWAUKEE COUNTY**

1030-15-70



FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2020133

STATE PROJECT

1030-15-70

WOODED OR SHRUB AREA

2

#### STANDARD ABBREVIATIONS

AEW APRON END WALL
AGG AGGREGATE
ASPH ASPHALTIC

BAD BASE AGGREGATE DENSE BM BENCH MARK

C&G CURB AND GUTTER

C/L CENTER OR CONSTRUCTION LINE
CMCP CULVERT PIPE CORRUGATED METAL
CONC CONCRETE

CP CULVERT PIPE

CPRC CULVERT PIPE REINFORCED CONCRETE

CSD CONCRETE SURFACE DRAIN

CY CUBIC YARD
D DEGREE OF CURVE
Δ DELTA
DISCH DISCHARGE
EB EASTBOUND

FE FIELD ENTRANCE
FL FLOW LINE
HMA HOT MIX ASPHALT

INV INVERT

L LENGTH OF CURVE LHF LEFT HAND FORWARD

LOW POINT LP LEFT ΙT MIN MINIMUM MATCHLINE M/L NORTHBOUND NB NORMAL CROWN NC PAVEMENT PAVT PC POINT OF CURVE

PCC POINT OF COMPOUND CURVE
PE PRIVATE ENTRANCE
PI POINT OF INTERSECTION
PGL PROFILE GRADE LINE

PLE PERMANENT LIMITED EASEMENT PRC POINT OF REVERSE CURVE

PT POINT OF TANGENT
R RADIUS OF CURVE
R/L REFERENCE LINE
R/W RIGHT OF WAY

RC REVERSE CROWN REQUIRED RHF RIGHT HAND FORWARD

RO RUN OFF LENGTH
RRFB RECTANGULAR RAPID FLASH BEACON

RRSP RAILROAD SPIKE
RT RIGHT
SALV SALVAGED
SB SOUTHBOUND

SDD STANDARD DETAIL DRAWING

SE SUPER ELEVATION SF SQUARE FOOT

SSPRC STORM SEWER PIPE REINFORCED CONCRETE

STA STATION
SY SQUARE YARD
T TANGENT LENGTH

TLE TEMPORARY LIMITED EASEMENT
VCL VERTICAL CURVE LENGTH
VPC POINT OF VERTICAL CURVE
VPI POINT OF VERTICAL INTERSECTION
VPT POINT OF VERTICAL TANGENT
WB WESTBOUND

#### GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE, OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

IF A SPILL OF ANY POTENTIAL POLLUTANT SHOULD OCCUR, IT IS THE RESPONSIBILITY OF THE PERMITTEE TO REMOVE SUCH MATERIAL, TO MINIMIZE ANY CONTAMINATION RESULTING FROM THIS SPILL, AND TO IMMEDIATELY NOTIFY THE STATE DUTY OFFICER AT 1-800-943-0003.

#### STATE AGENCIES

## WISCONSIN DEPARTMENT OF TRANSPORTATION

MS. AMANDA JOHANSEN - PROJECT MANAGER 141 NW BARSTOW ST. WAUKESHA, WI 53187-0798 PHONE: (262) 521-4465 amanda.johansen@dot.wi.gov

## WISCONSIN DEPARTMENT OF NATURAL RESOURCES

MS. KRISTINA BETZOLD 2300 N MARTIN LUTHER KING JR DRIVE MILWAUKEE, WI 53212 PHONE: (414) 263-8517 CELL: (414) 507-4946 kristina.betzold@wisconsin.gov

#### **UTILITY CONTACTS**

NO UTILITIES WILL BE IMPACTED AS PART OF THIS PROJECT.

#### OTHER AGENCIES

#### MILWAUKEE COUNTY DPW

MR. GREG HEISEL, HWY MAINT. MANAGER 10320 W WATERTOWN PLANK ROAD MILWAUKEE, WI 53226 PHONE: (414) 257-6566 gheisel@milwcnty.com

#### MILWAUKEE COUNTY TRANSIT SYSTEM

1942 N 17<sup>TH</sup> STREET MILWAUKEE, WI 53205

MS. MELANIE FLYNN
COORDINATOR OF STREET SUPERVISION (ROUTES)
PHONE: (414) 343-1764
mflynn@mcts.org

MR. DAVID LOCHER TRANSPORTATION SPECIALIST PHONE: (414) 343-1727 dlocher@mcts.org

## SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

MR. ROB MERRY W239 N1812 ROCKWOOD DRIVE P.O. BOX 1607 WAUKESHA, WI 53187-1607 PHONE: (262) 953-4289 CELL: (920) 912-1036 rmerry@sewrpc.org

#### ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
PLAN DETAILS/EROSION CONTROL
PAVEMENT MARKING
TRAFFIC CONTROL
DETOUR PLAN
ALIGNMENT LAYOUT



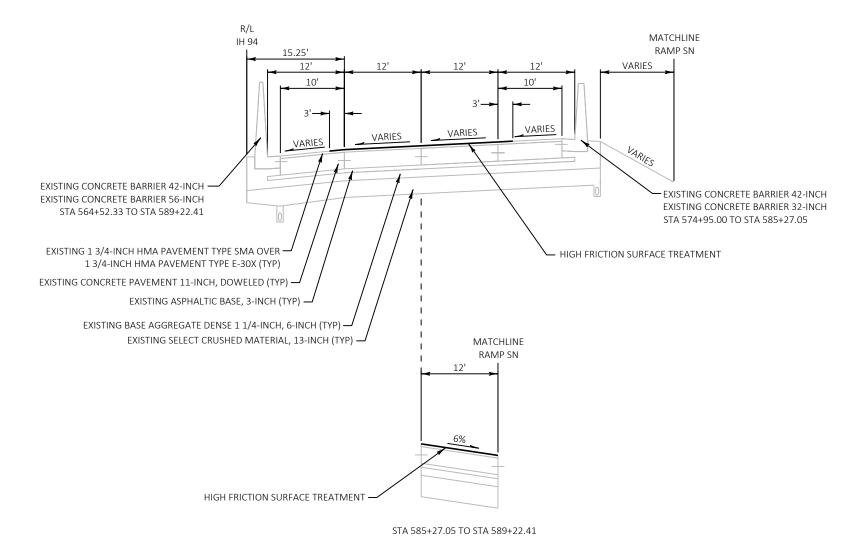
PROJECT NO: 1030-15-70 HWY: IH 94 COUNTY: MILWAUKEE GENERAL NOTES AND UTILITY CONTACTS SHEET: E

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

N:PDS\C3D\10301500\SheetsPlan\020101 gn.pptx



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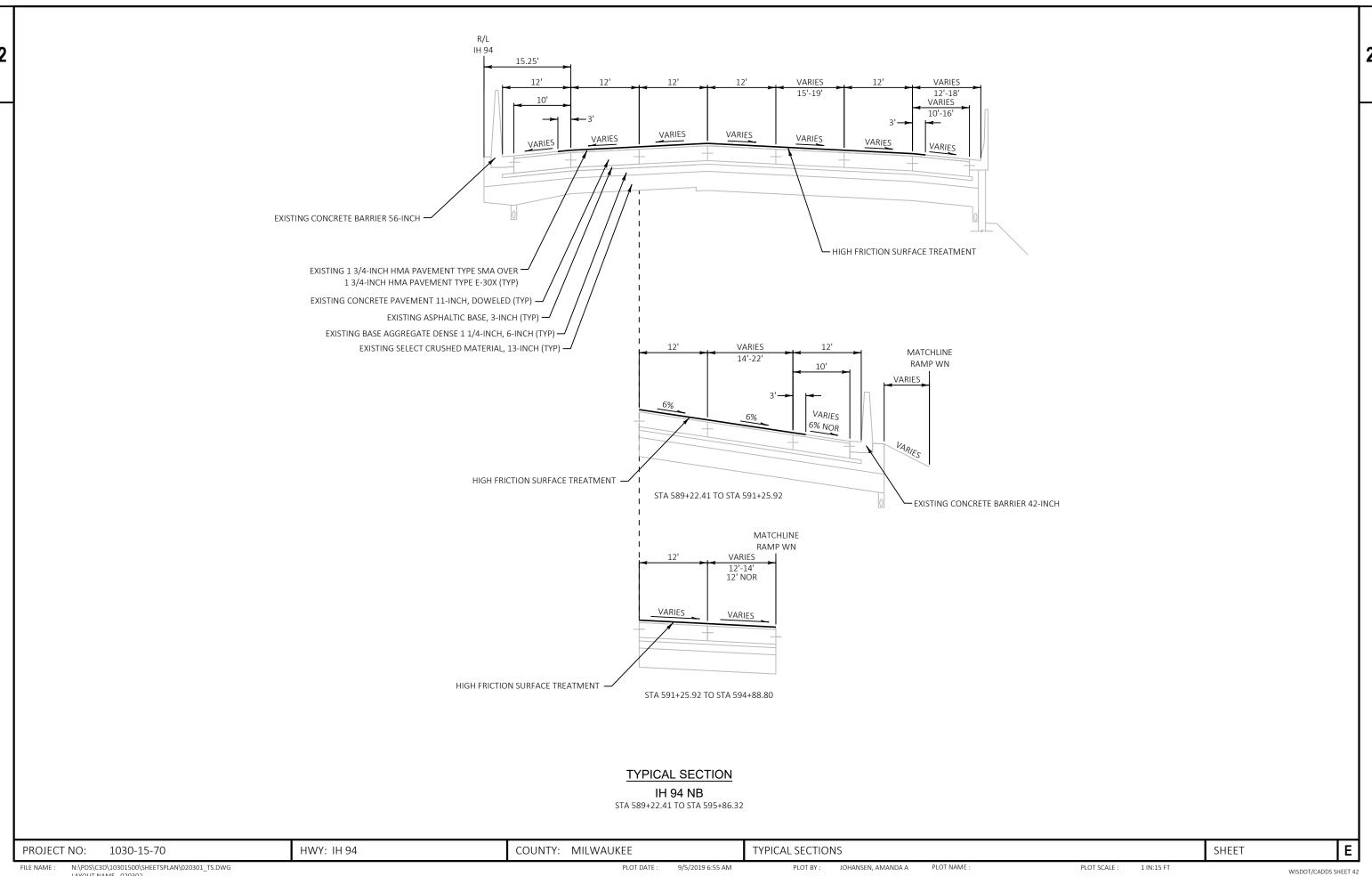


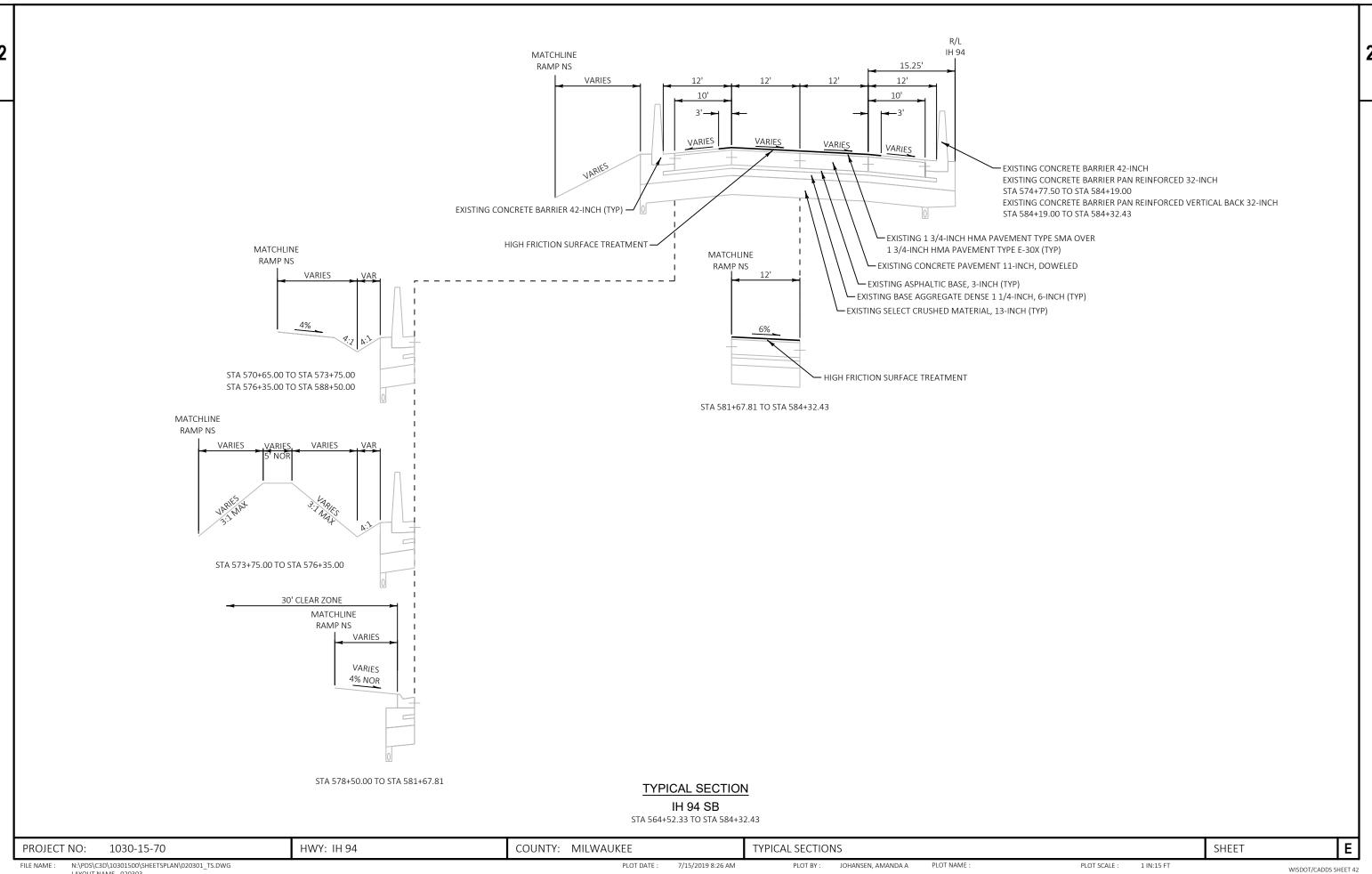
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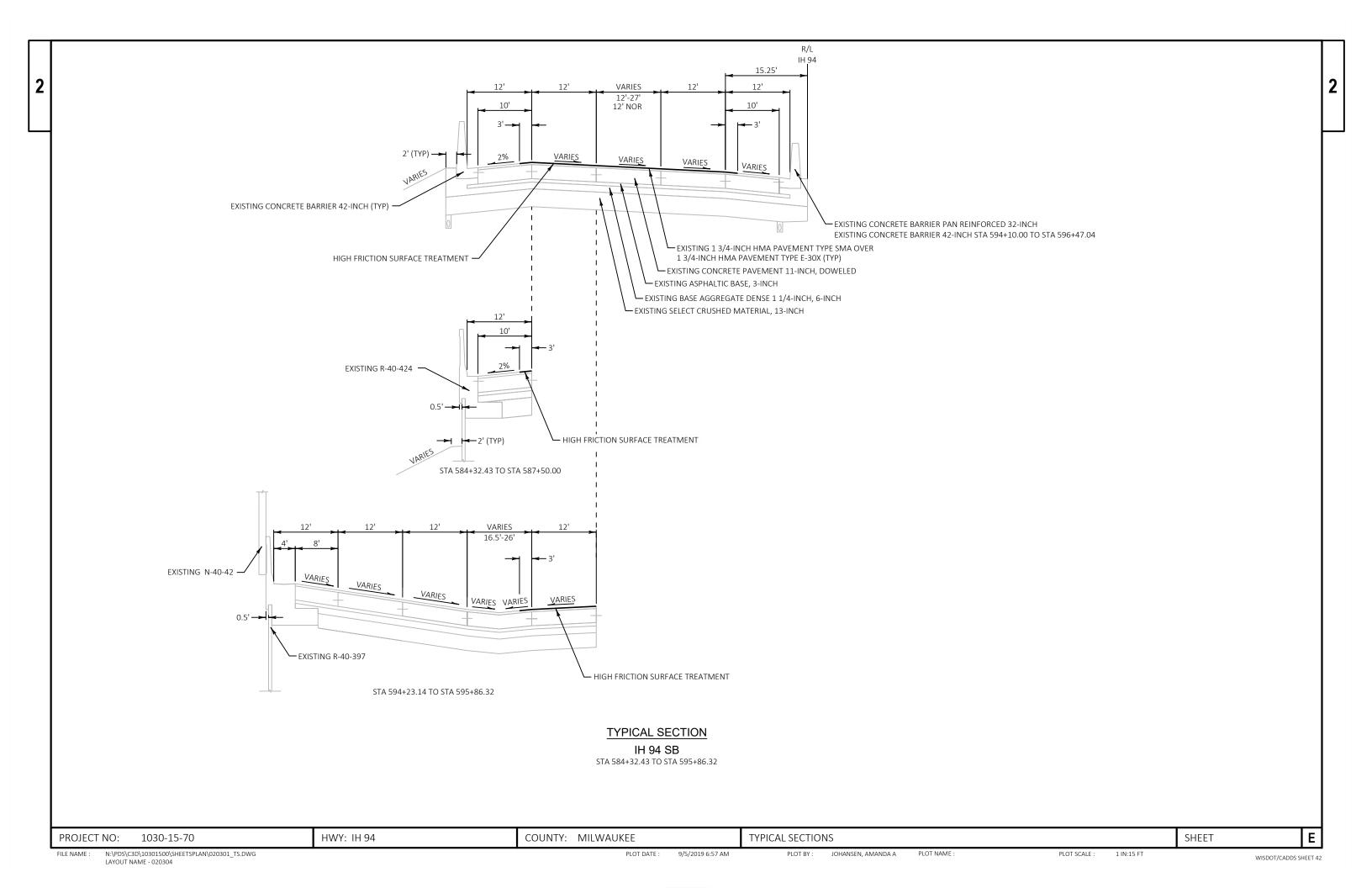
IH 94 NB

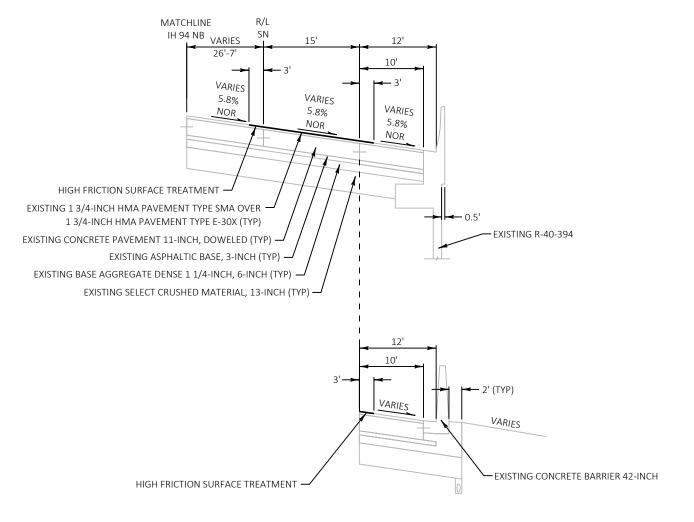
STA 564+52.33 TO STA 589+22.41

HWY: IH 94 Ε PROJECT NO: 1030-15-70 COUNTY: MILWAUKEE TYPICAL SECTIONS SHEET N:\PDS\C3D\10301500\SHEETSPLAN\020301\_TS.DWG FILE NAME :









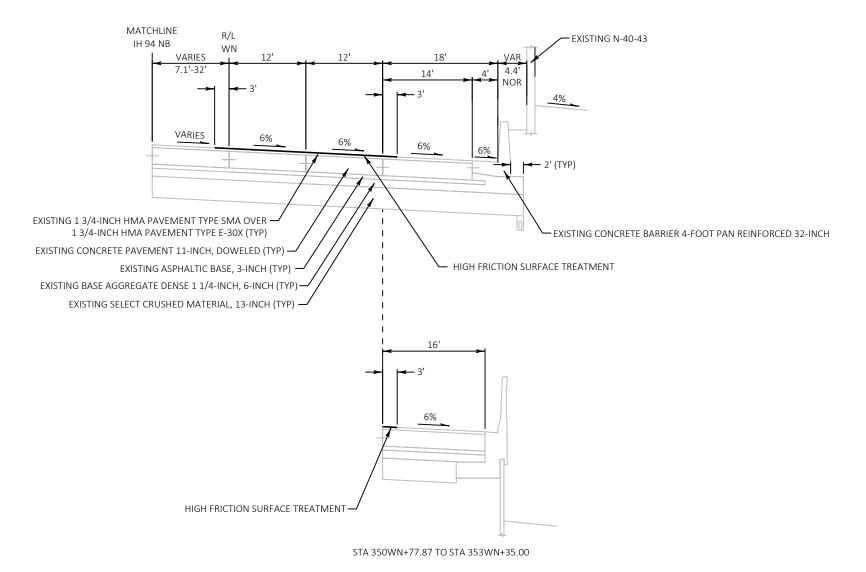
STA 1587SN+46.63 TO STA 1589SN+22.41

### TYPICAL SECTION

RAMP SN

STA 1585SN+43.28 TO STA 1589SN+22.41

HWY: IH 94 TYPICAL SECTIONS Ε PROJECT NO: 1030-15-70 COUNTY: MILWAUKEE SHEET N:\PDS\C3D\10301500\SHEETSPLAN\020301\_TS.DWG PLOT DATE : PLOT BY: JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:15 FT FILE NAME : 1/17/2019 9:16 AM WISDOT/CADDS SHEET 42

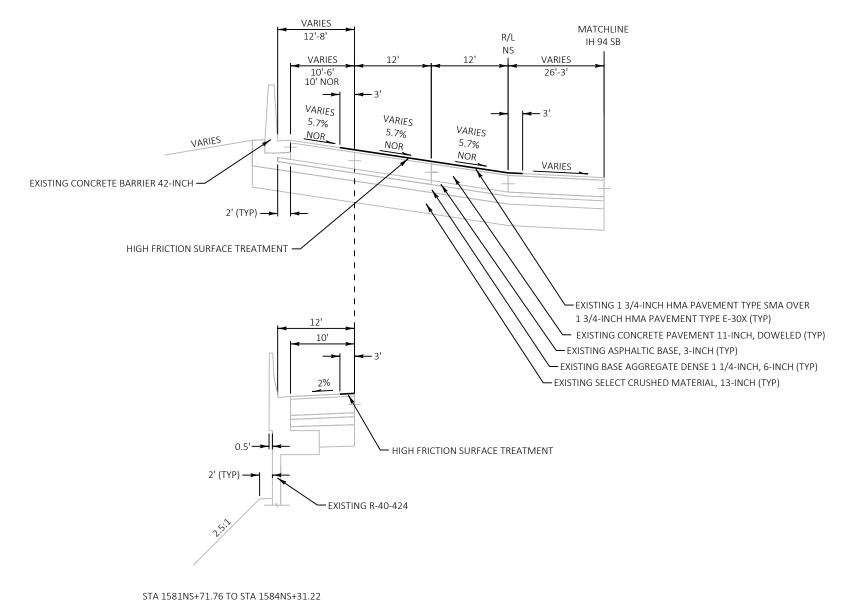


#### TYPICAL SECTION

#### RAMP WN

STA 349WN+90.96 TO STA 353WN+35.00

HWY: IH 94 TYPICAL SECTIONS Ε PROJECT NO: 1030-15-70 COUNTY: MILWAUKEE SHEET N:\PDS\C3D\10301500\SHEETSPLAN\020301\_TS.DWG PLOT DATE : 1/17/2019 10:05 AM PLOT BY: JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:15 FT FILE NAME : WISDOT/CADDS SHEET 42

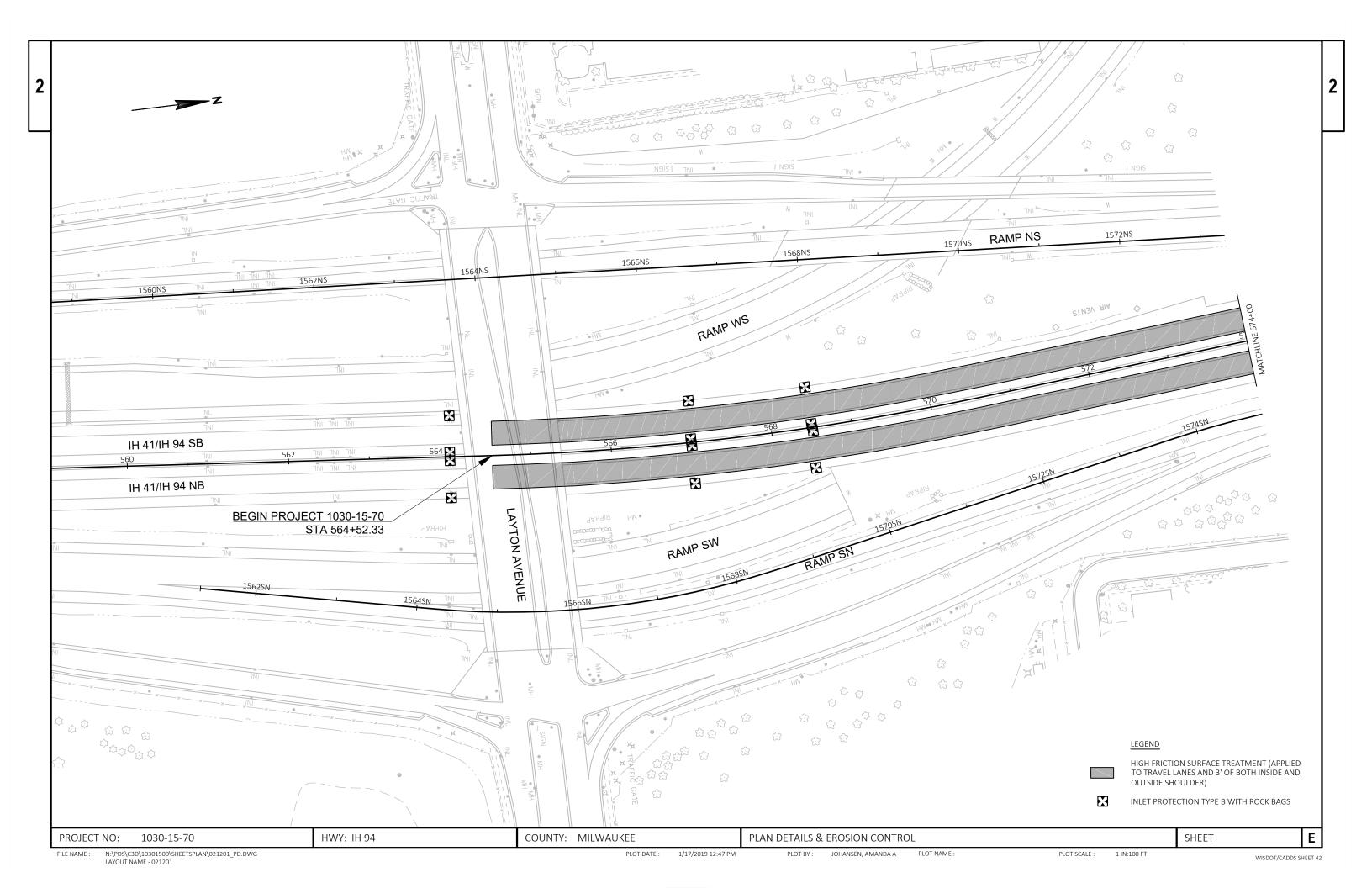


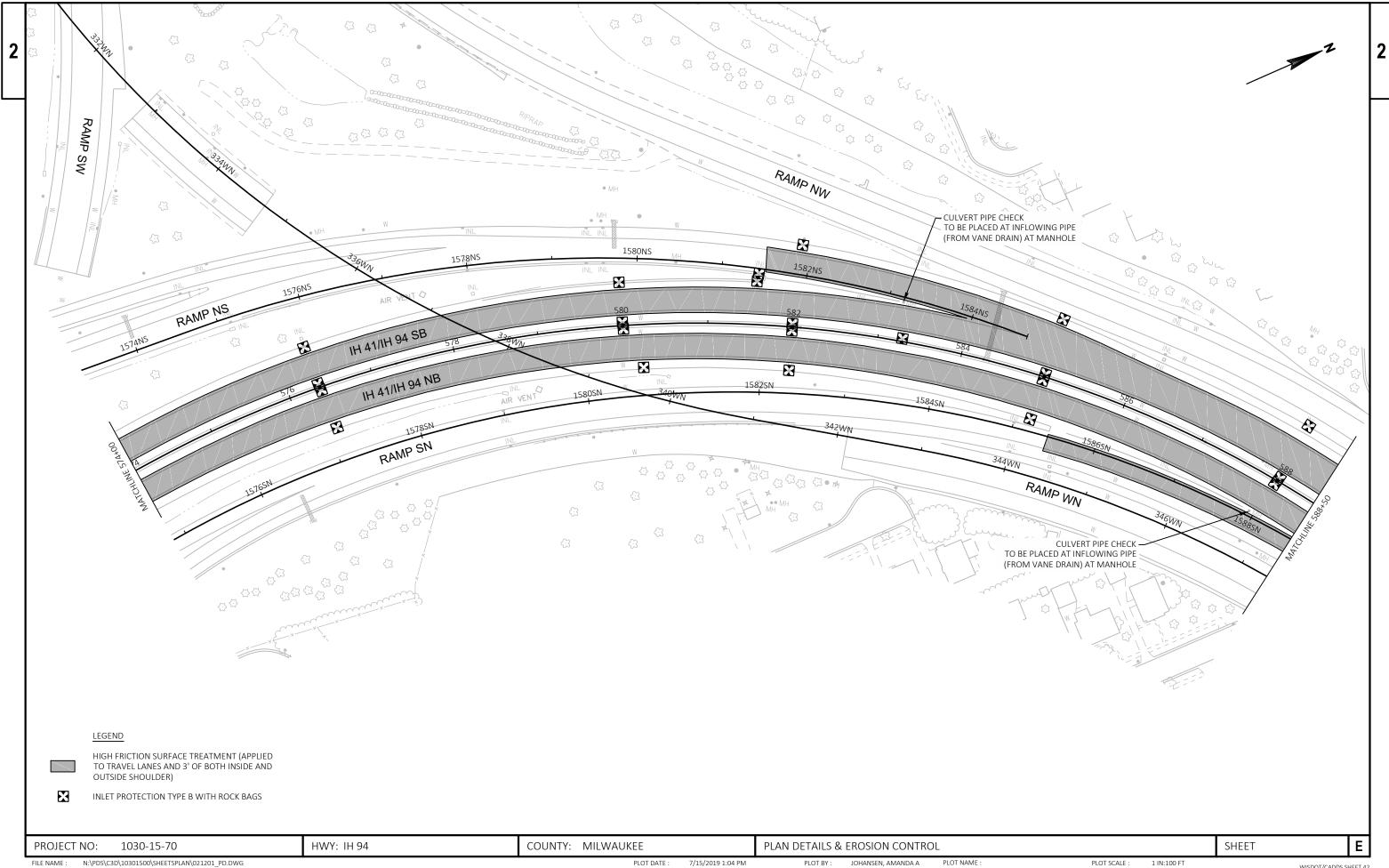
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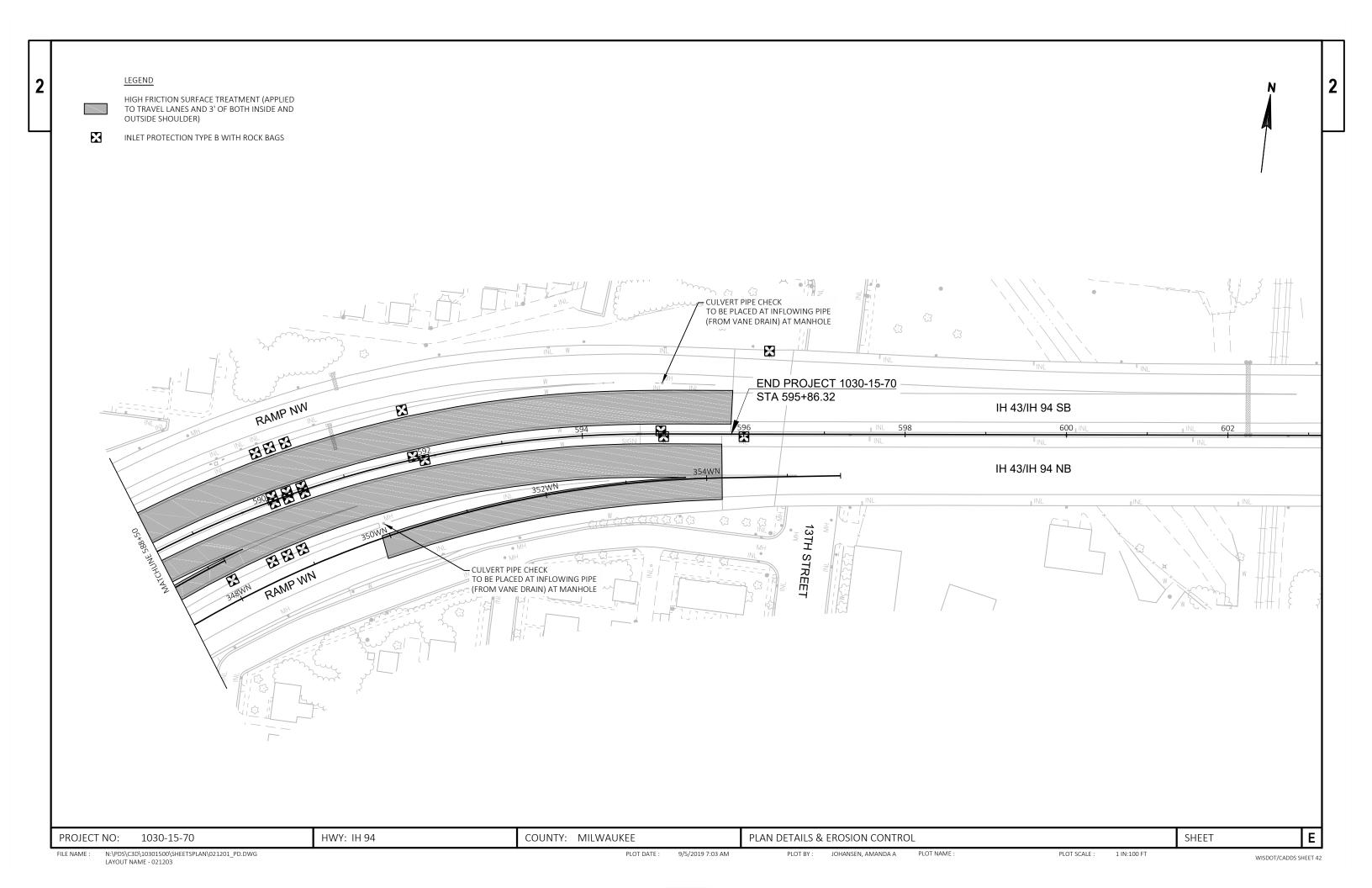
RAMP NS

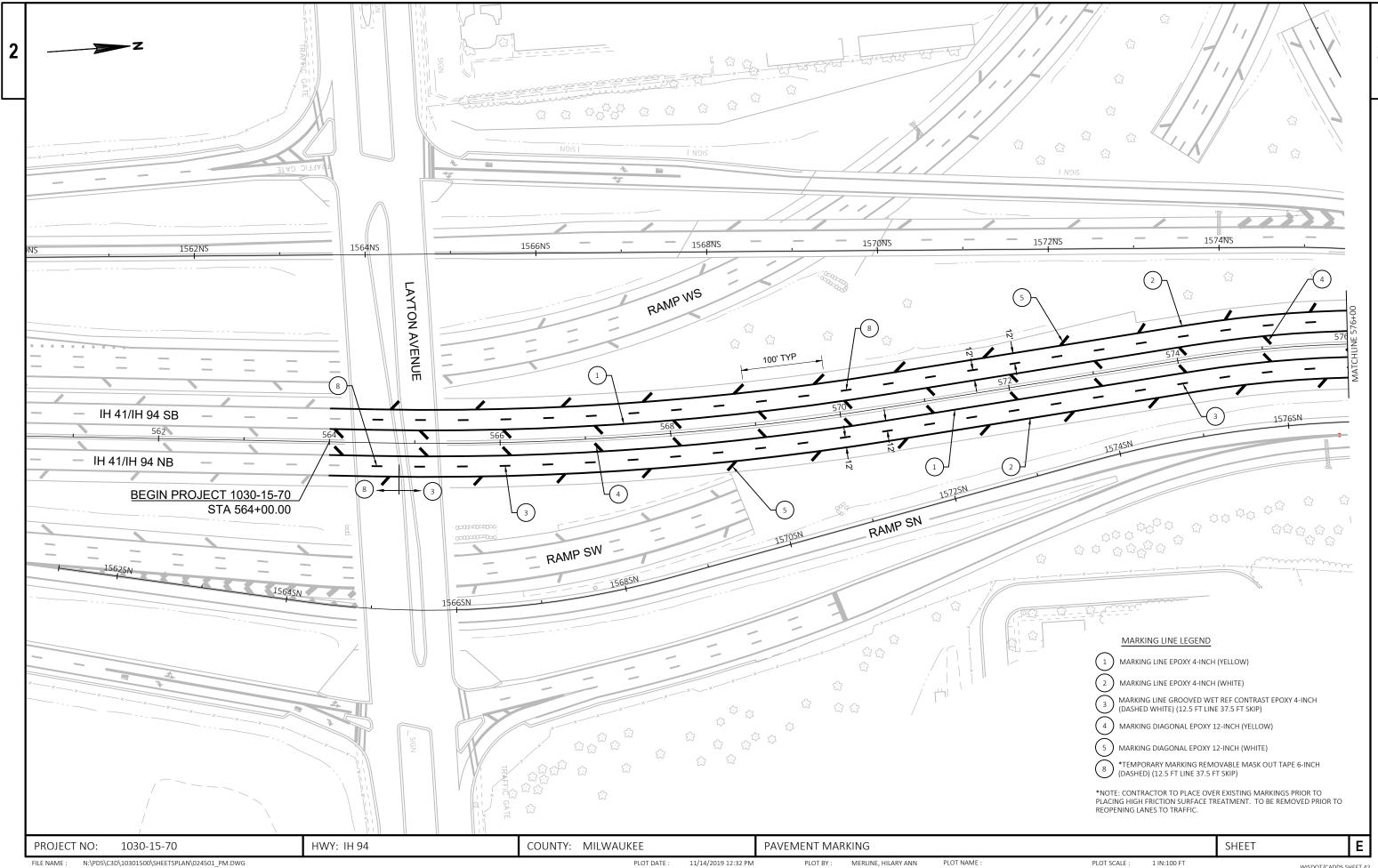
STA 1581NS+55.45 TO STA 1584NS+31.22

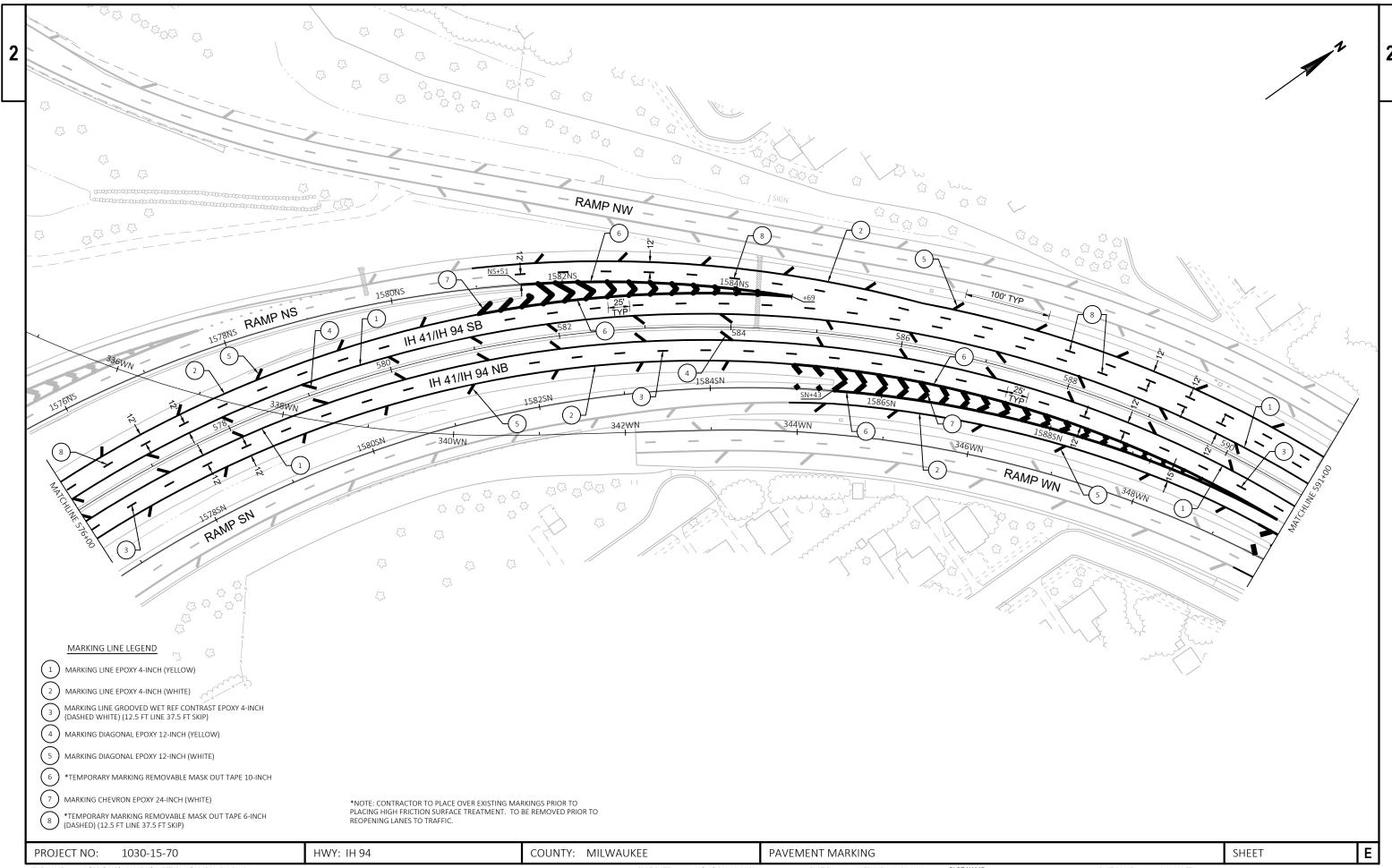
HWY: IH 94 Ε PROJECT NO: 1030-15-70 COUNTY: MILWAUKEE TYPICAL SECTIONS SHEET PLOT BY: JOHANSEN, AMANDA A N:\PDS\C3D\10301500\SHEETSPLAN\020301\_TS.DWG PLOT DATE : 1/17/2019 10:51 AM PLOT NAME : PLOT SCALE : 1 IN:15 FT FILE NAME : WISDOT/CADDS SHEET 42

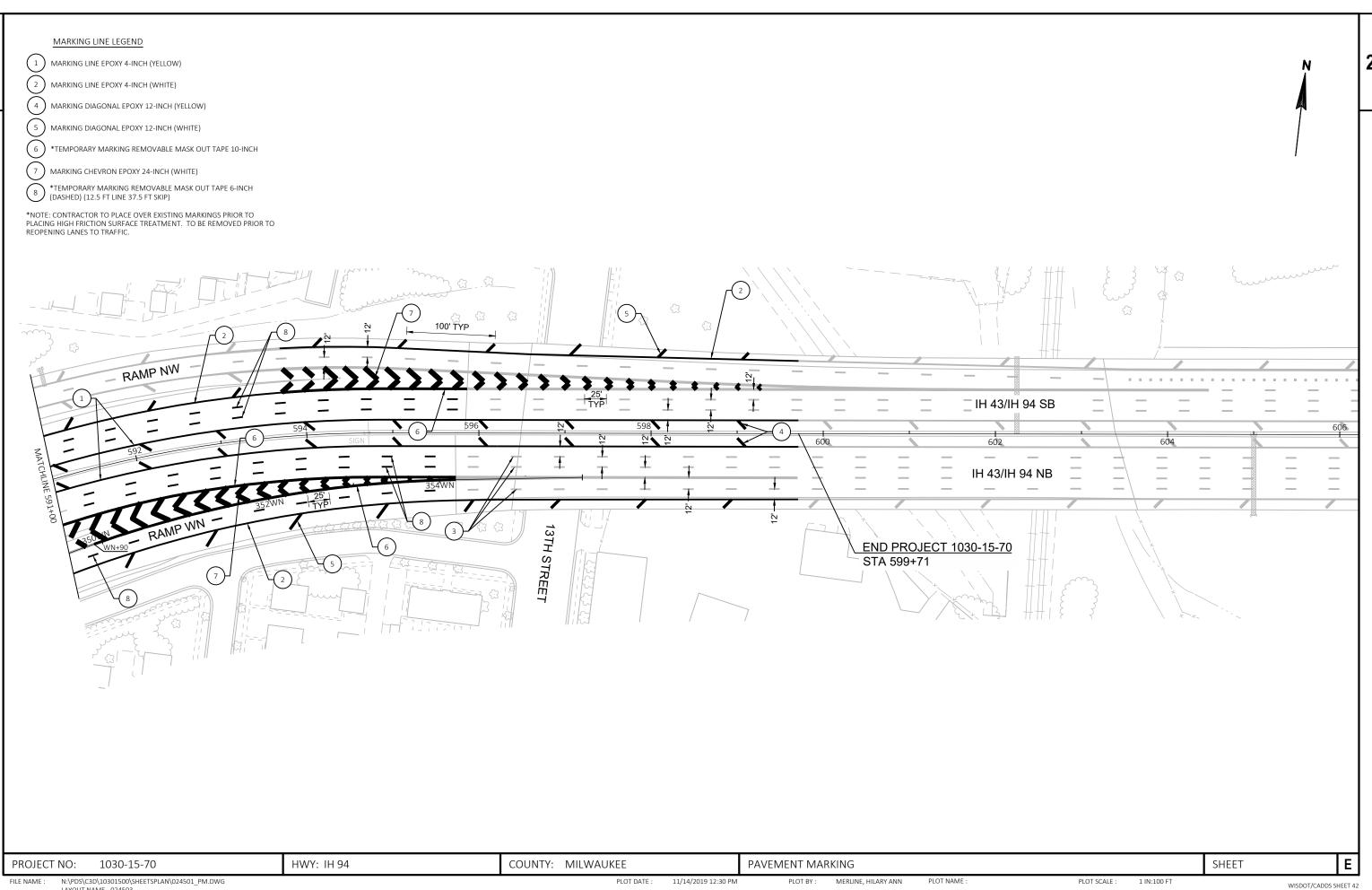


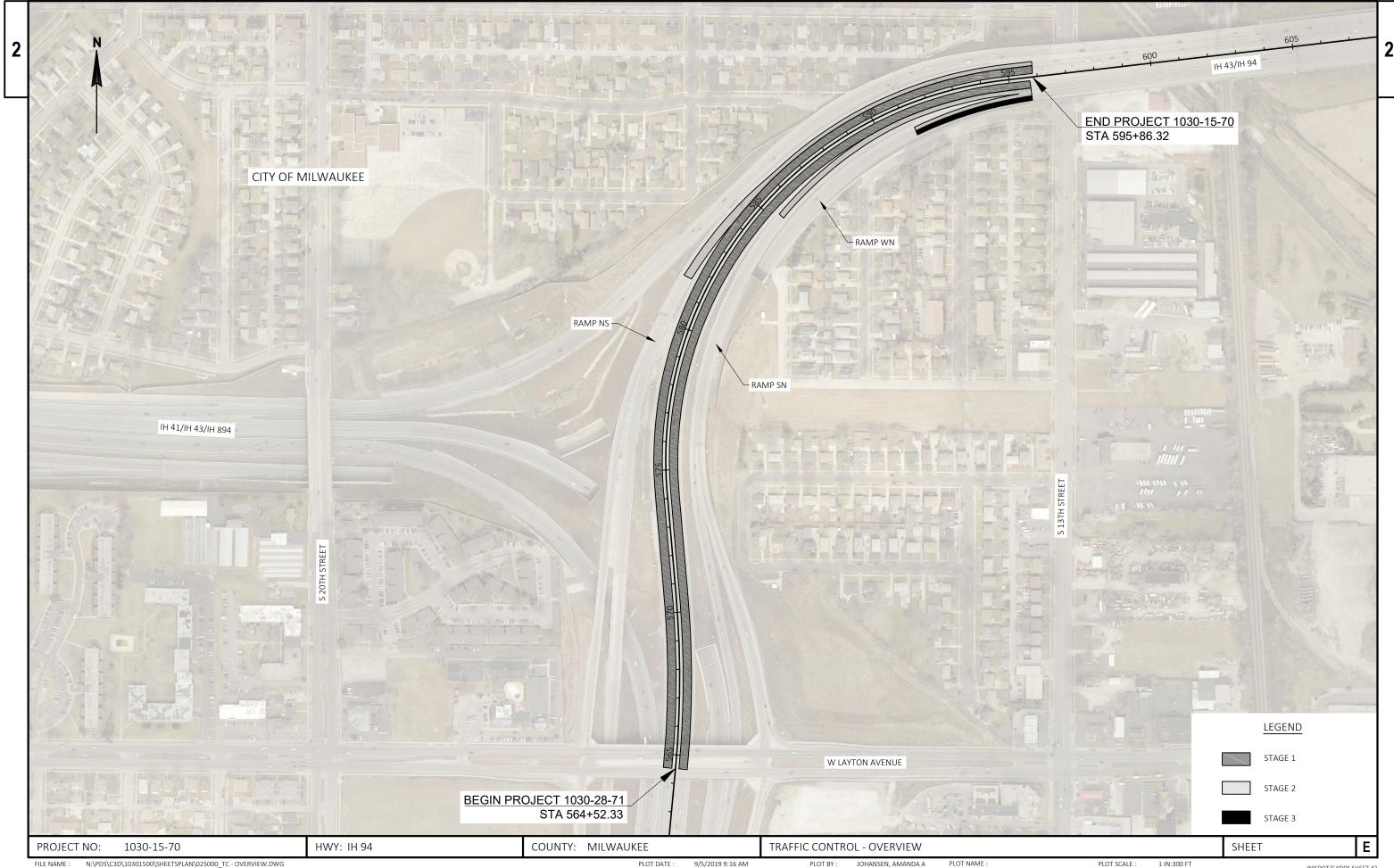


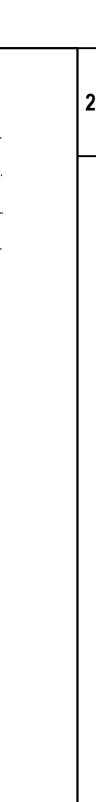


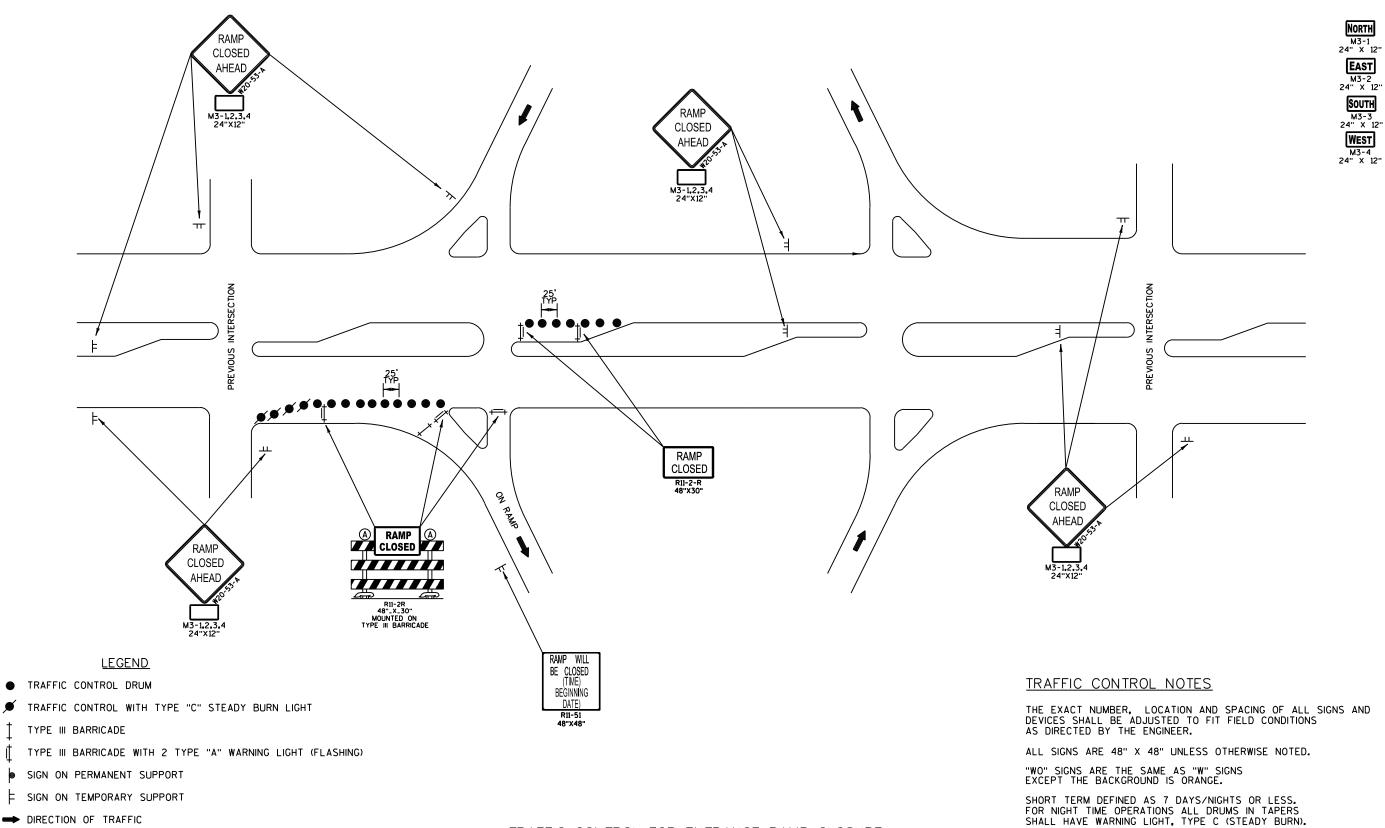












Ε PROJECT NO: 1030-15-70 HWY: IH 94 COUNTY: MILWAUKEE TRAFFIC CONTROL DETAILS SHEET N:\PDS\C3D\10301500\SHEETSPLAN\025000\_TC - DETAILS.DWG PLOT BY: JOHANSEN, AMANDA A PLOT NAME : PLOT DATE : PLOT SCALE : FILE NAME : 5/17/2019 9:14 AM 1 IN:200 FT

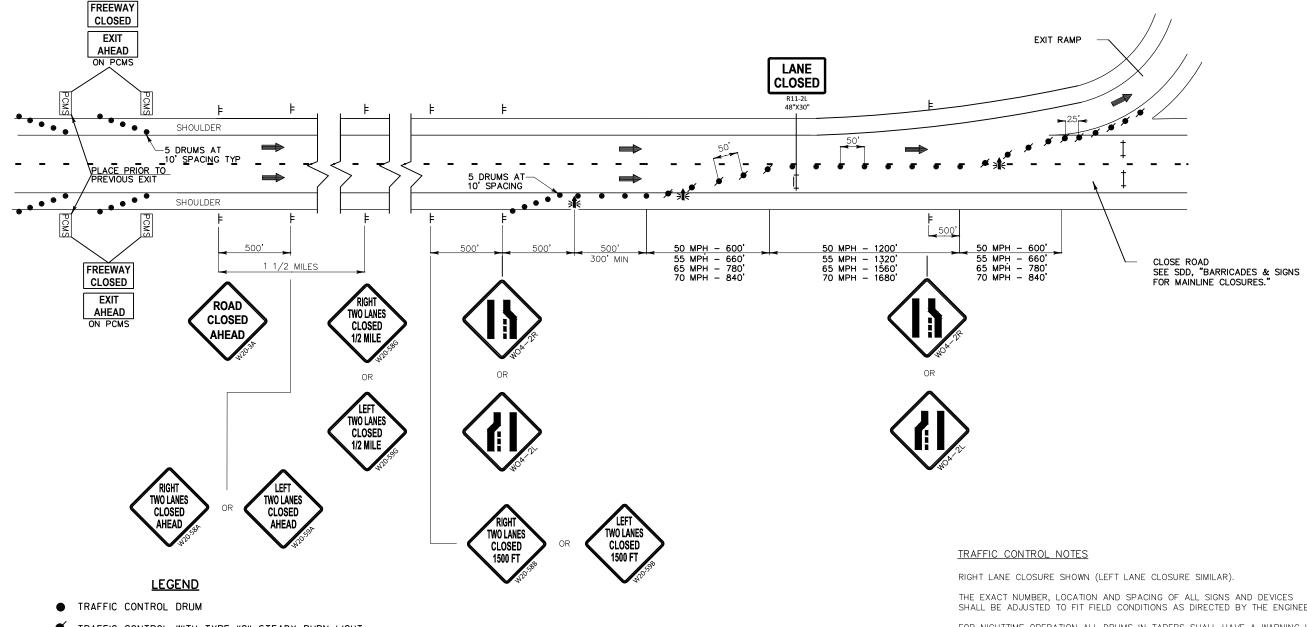
TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE

SHORT TERM ONLY

LAYOUT NAME - TC Detail 1

MAY BE APPLIED TO ARTERIALS OR LOCAL ROADS.





▼ TRAFFIC CONTROL WITH TYPE "C" STEADY BURN LIGHT.

TYPE III BARRICADE WITH TWO (2) TYPE "A" WARNING LIGHTS (FLASHING)

TYPE III BARRICADE WITH SIGN WITH TWO (2) TYPE "A" WARNING LIGHTS (FLASHING)

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

FLASHING ARROW BOARD

→ DIRECTION OF TRAFFIC

PCMS TRAFFIC CONTROL SIGN PORTABLE CHANGEABLE MESSAGE BOARD

WORK AREA

TWO LANE FULL FREEWAY CLOSURE

SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A WARNING LIGHT, TYPE C (STEADY BURN).

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

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

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

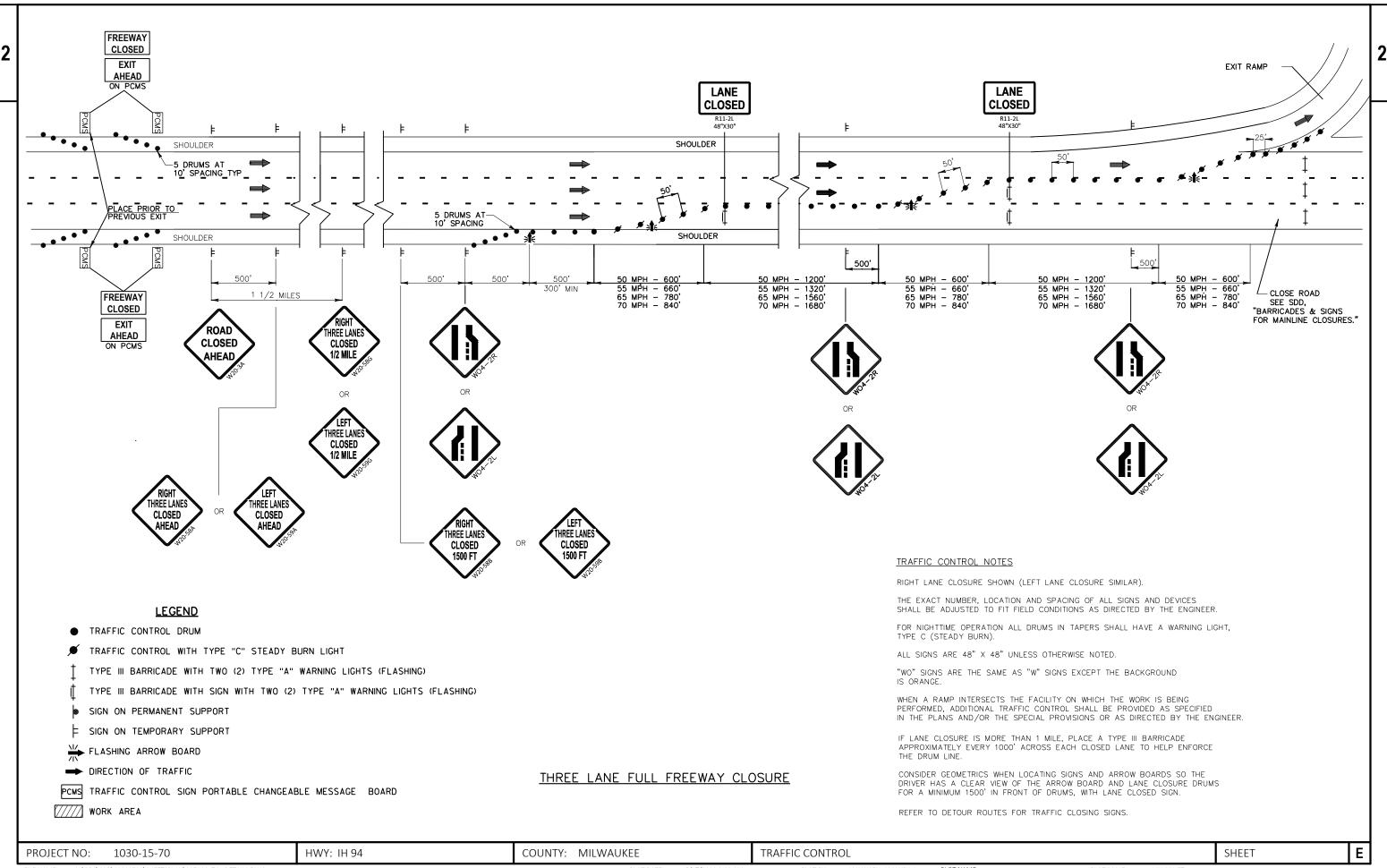
IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1000' ACROSS EACH CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500' IN FRONT OF DRUMS, WITH LANE CLOSED SIGN.

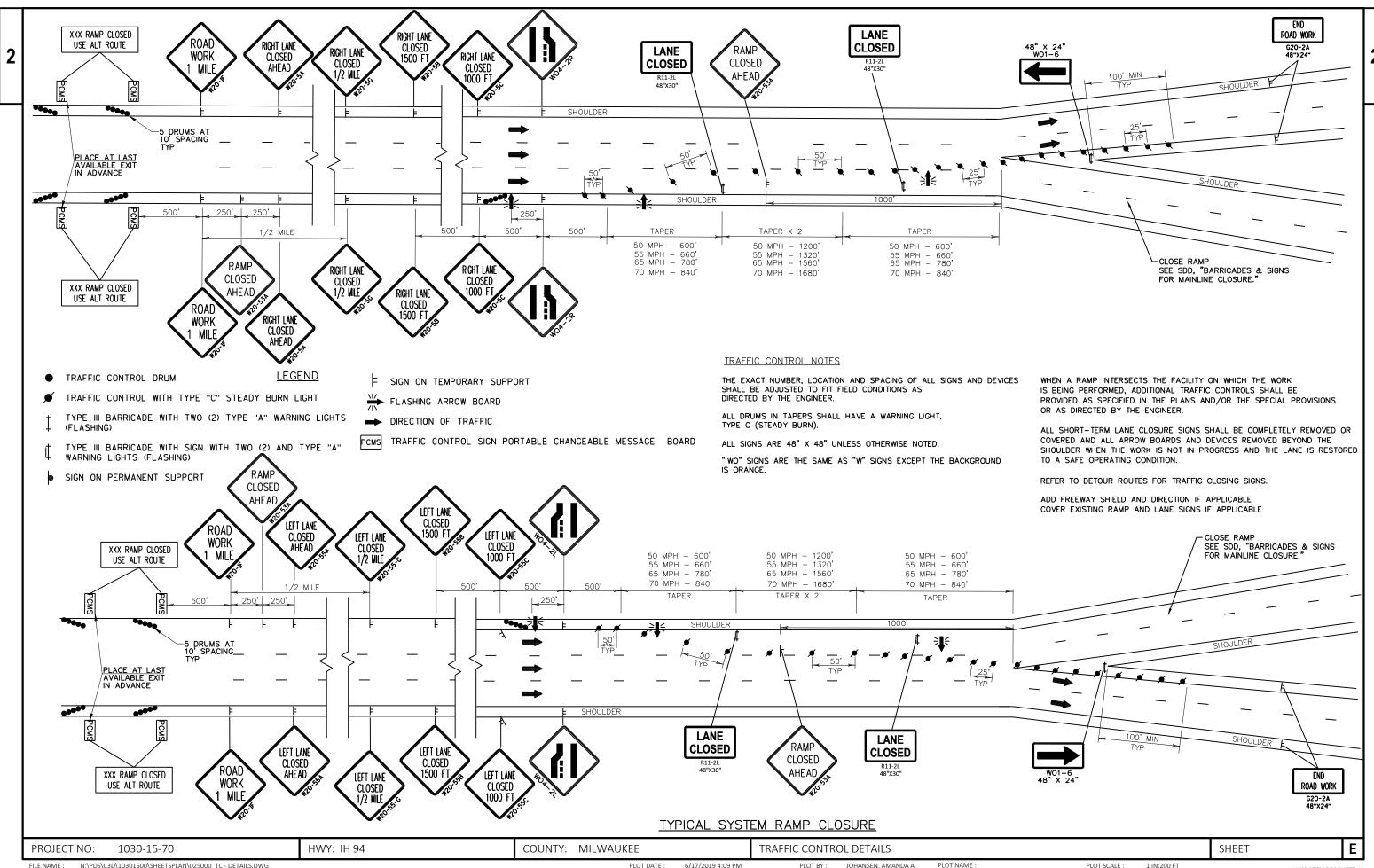
REFER TO DETOUR ROUTES FOR TRAFFIC CLOSING SIGNS.

Ε PROJECT NO: 1030-15-70 HWY: IH 94 COUNTY: MILWAUKEE TRAFFIC CONTROL DETAILS SHEET N:\PDS\C3D\10301500\SHEETSPLAN\025000\_TC - DETAILS.DWG JOHANSEN, AMANDA A FILE NAME : PLOT DATE: 5/17/2019 9:06 AM PLOT BY: PLOT NAME PLOT SCALE: 1 IN:200 FT

LAYOUT NAME - TC Detail 2

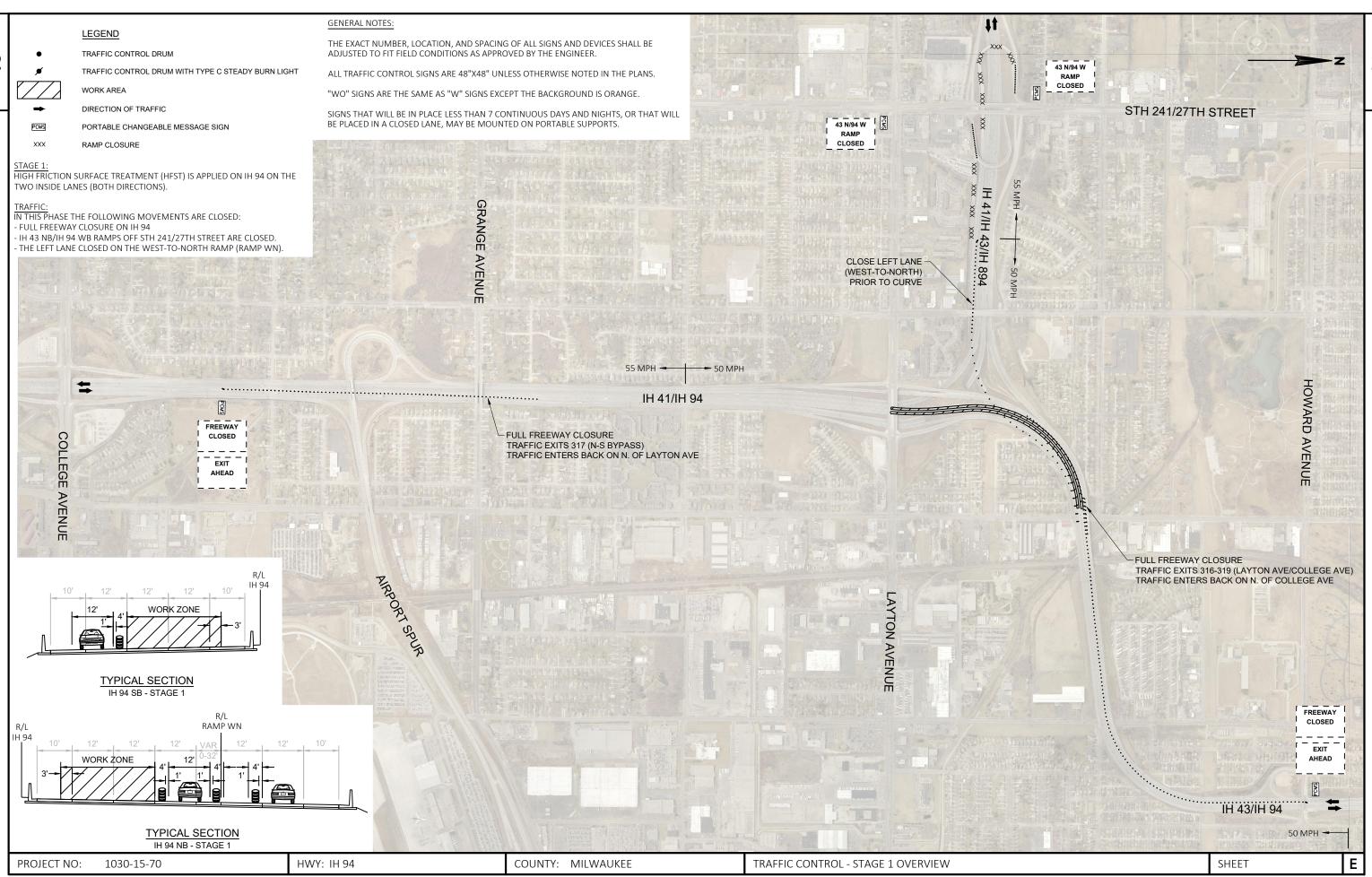


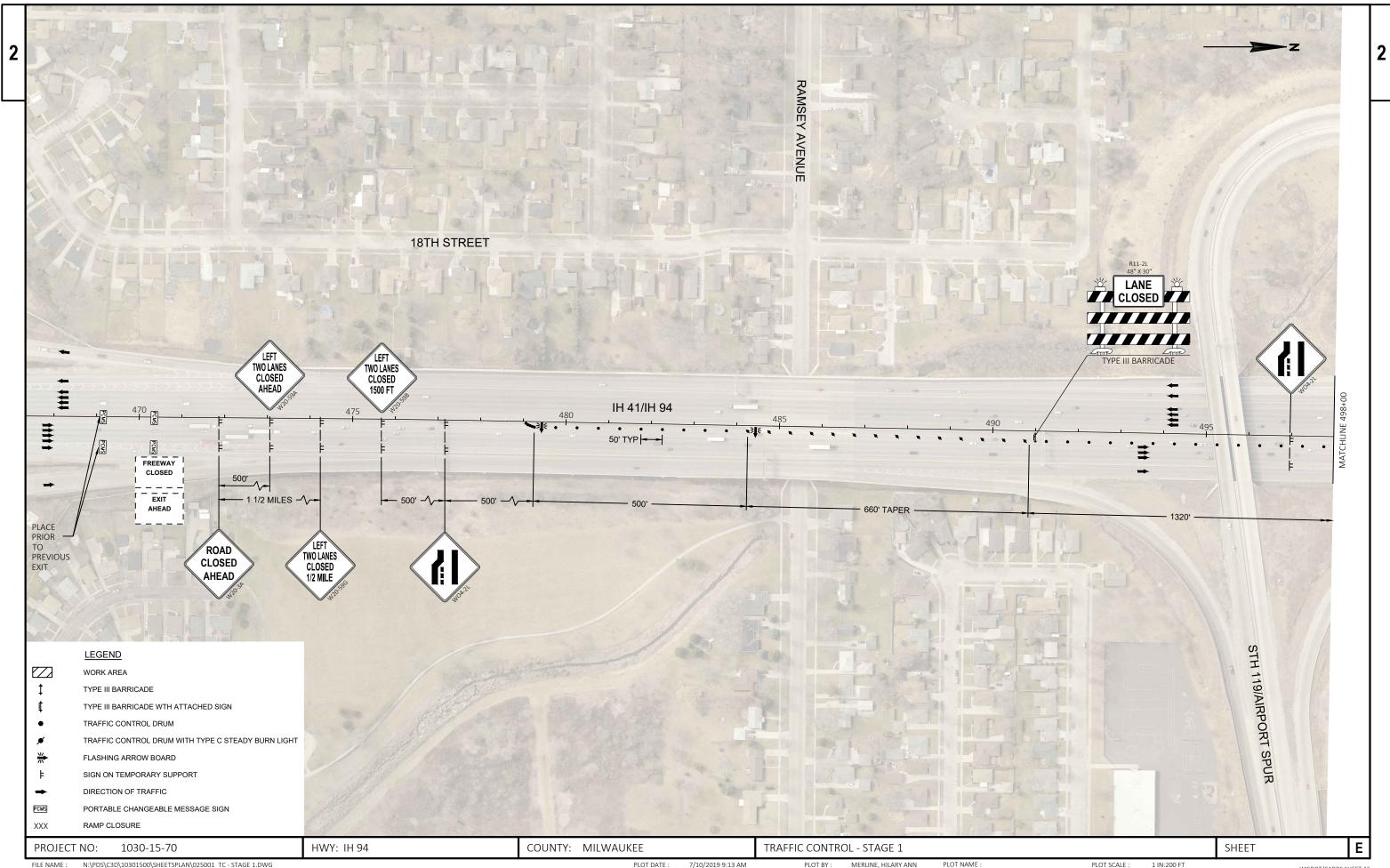
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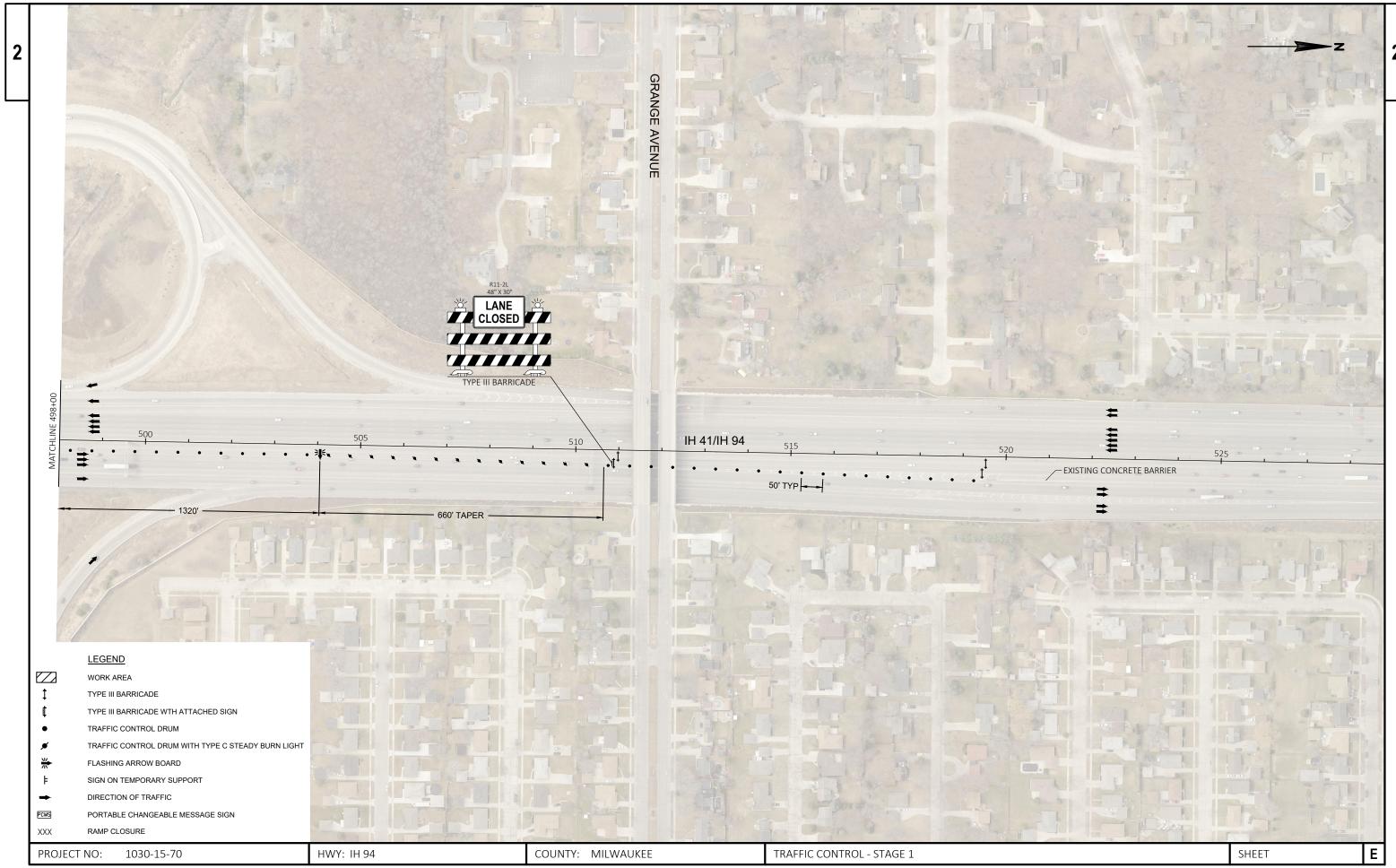
FILE NAME: N:\PDS\C3D\10301500\\SHEETSPLAN\025000\_TC - DETAILS.DWG PLOT BY: JOHANSEN, AMANDA A PLOT NAME: 1 IN:200 FT WISDOT/CADDS SHEET 42

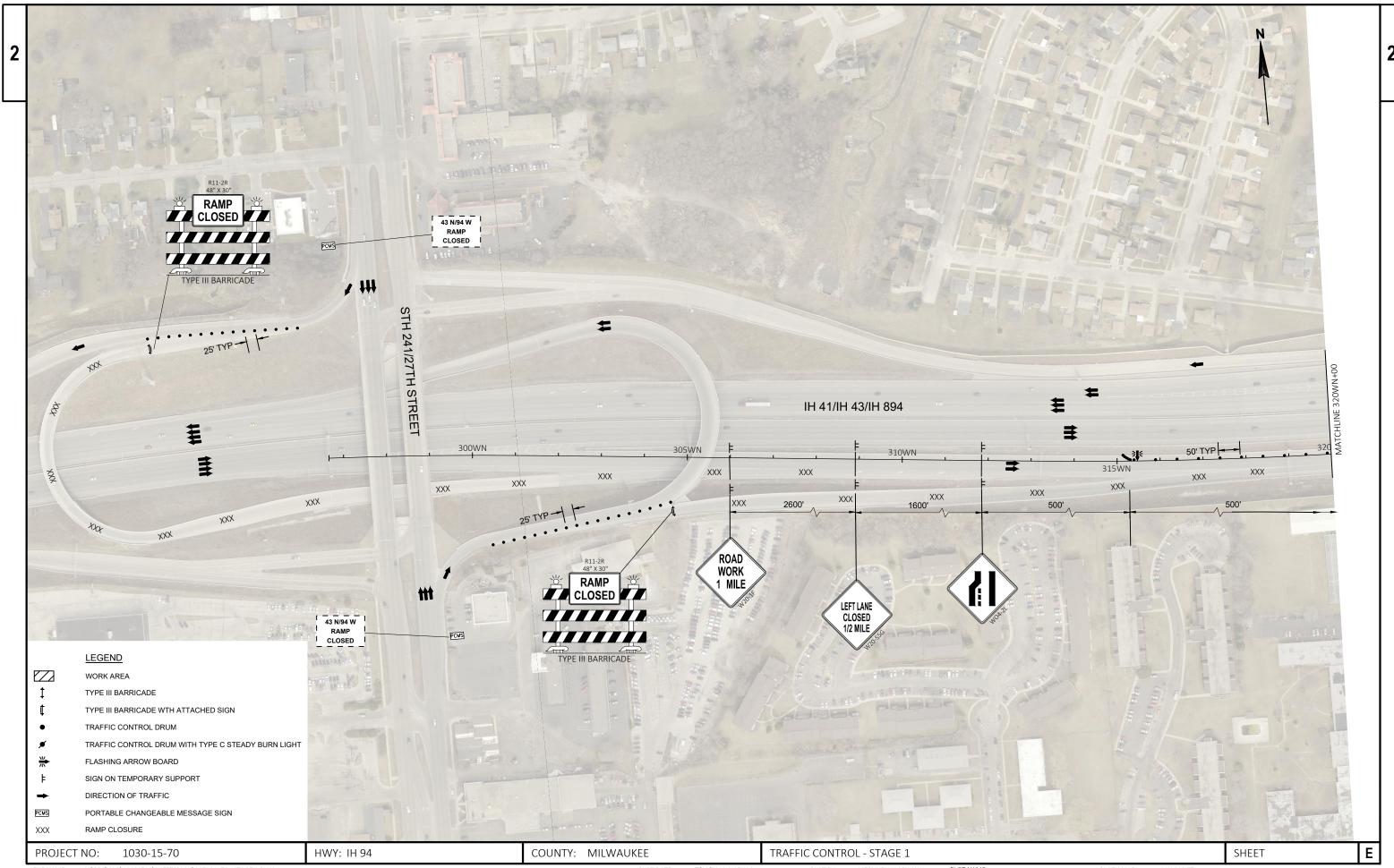
LAYOUT NAME - TC Detail 4

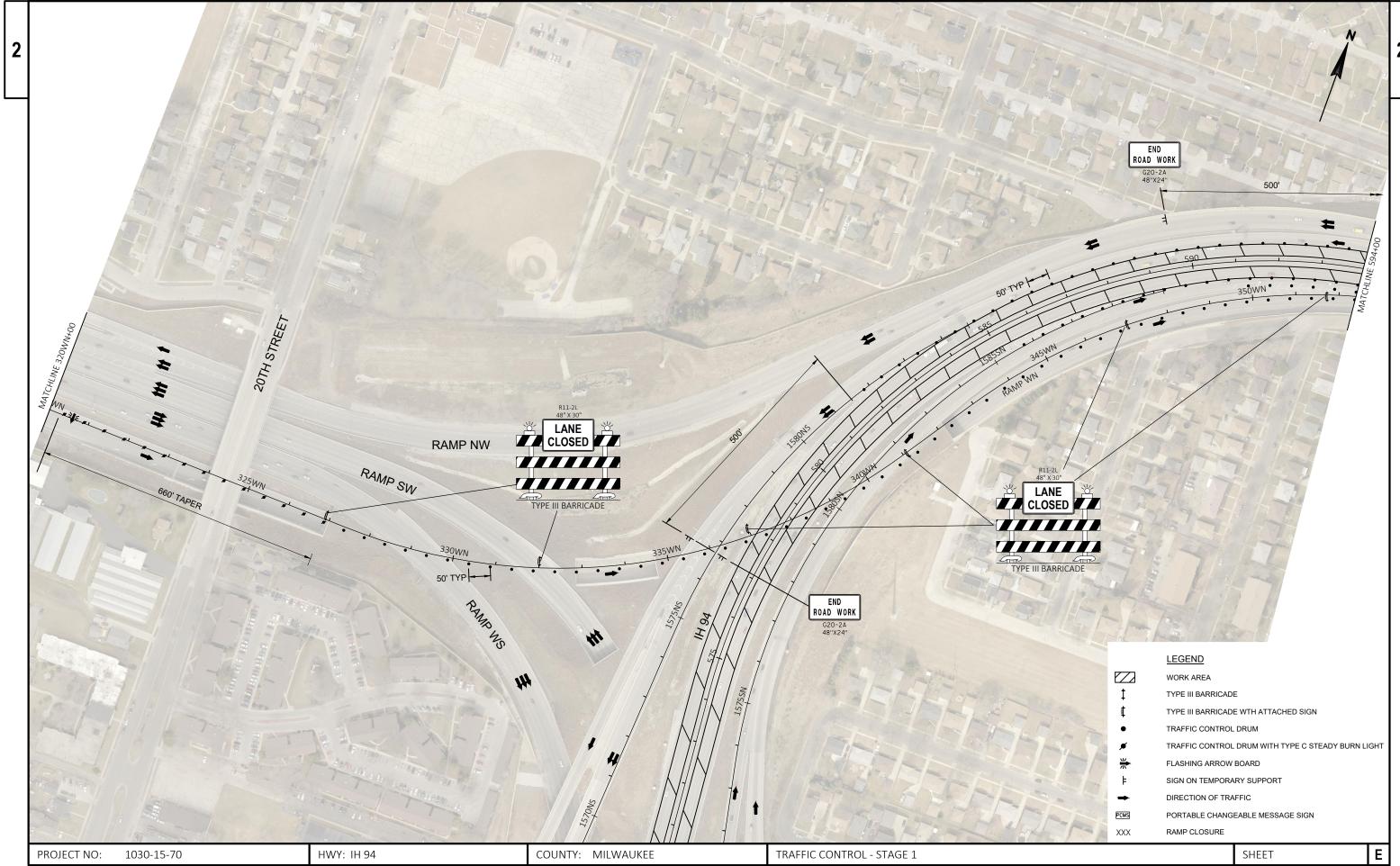


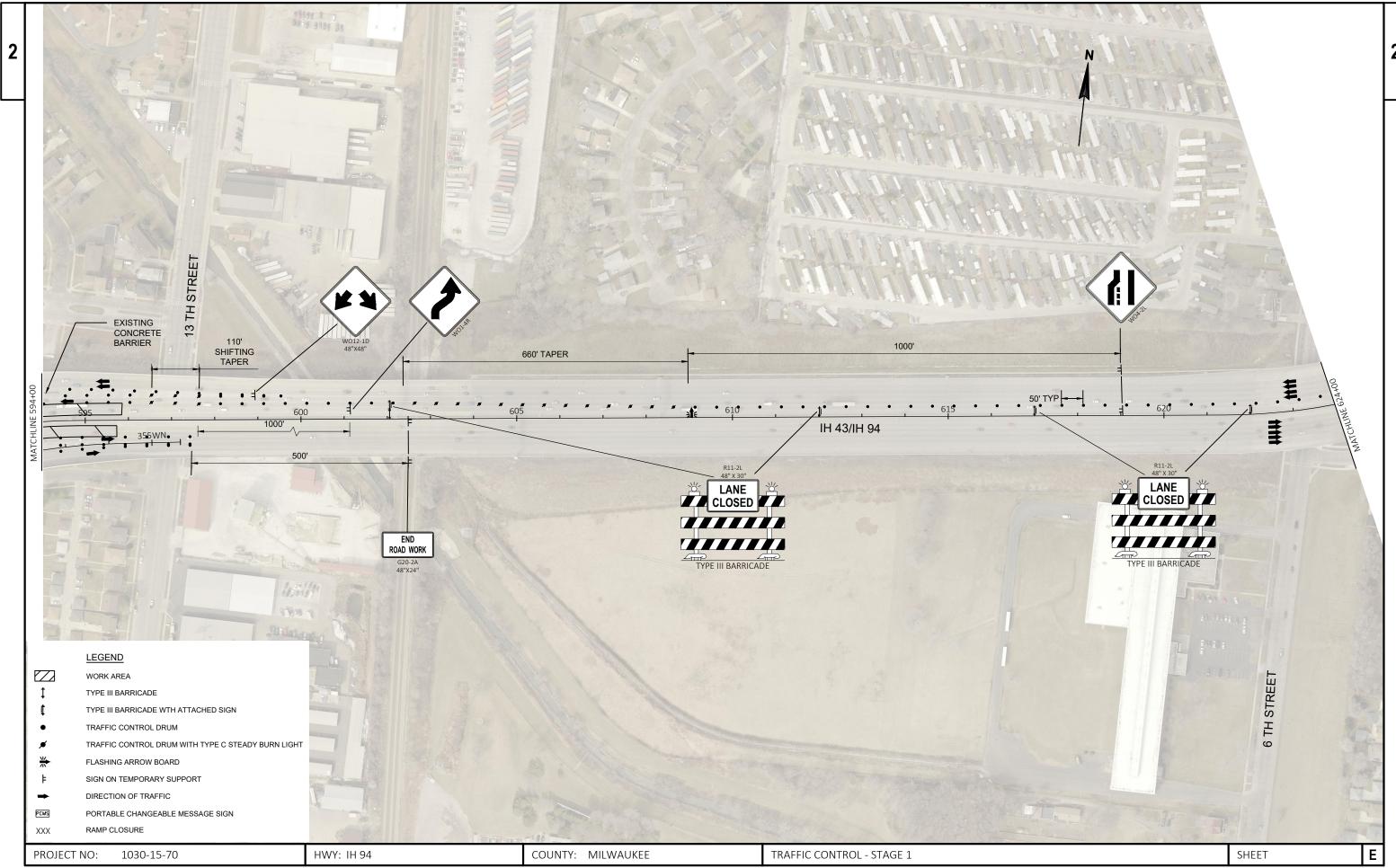


PLOT BY : MERLINE, HILARY ANN N:\PDS\C3D\10301500\SHEETSPLAN\025001\_TC - STAGE 1.DWG PLOT DATE : PLOT NAME : PLOT SCALE : 7/10/2019 9:13 AM 1 IN:200 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 025001

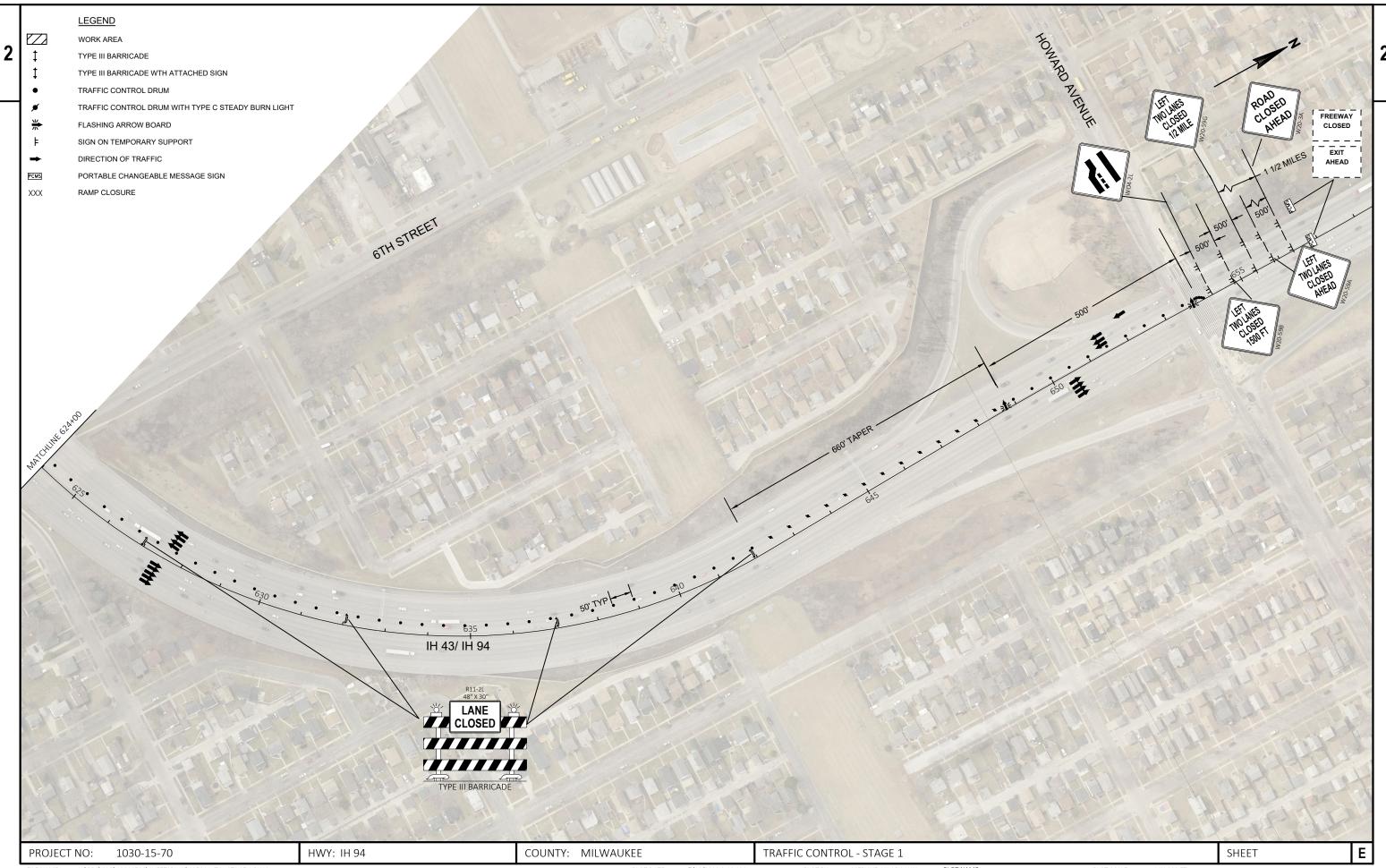


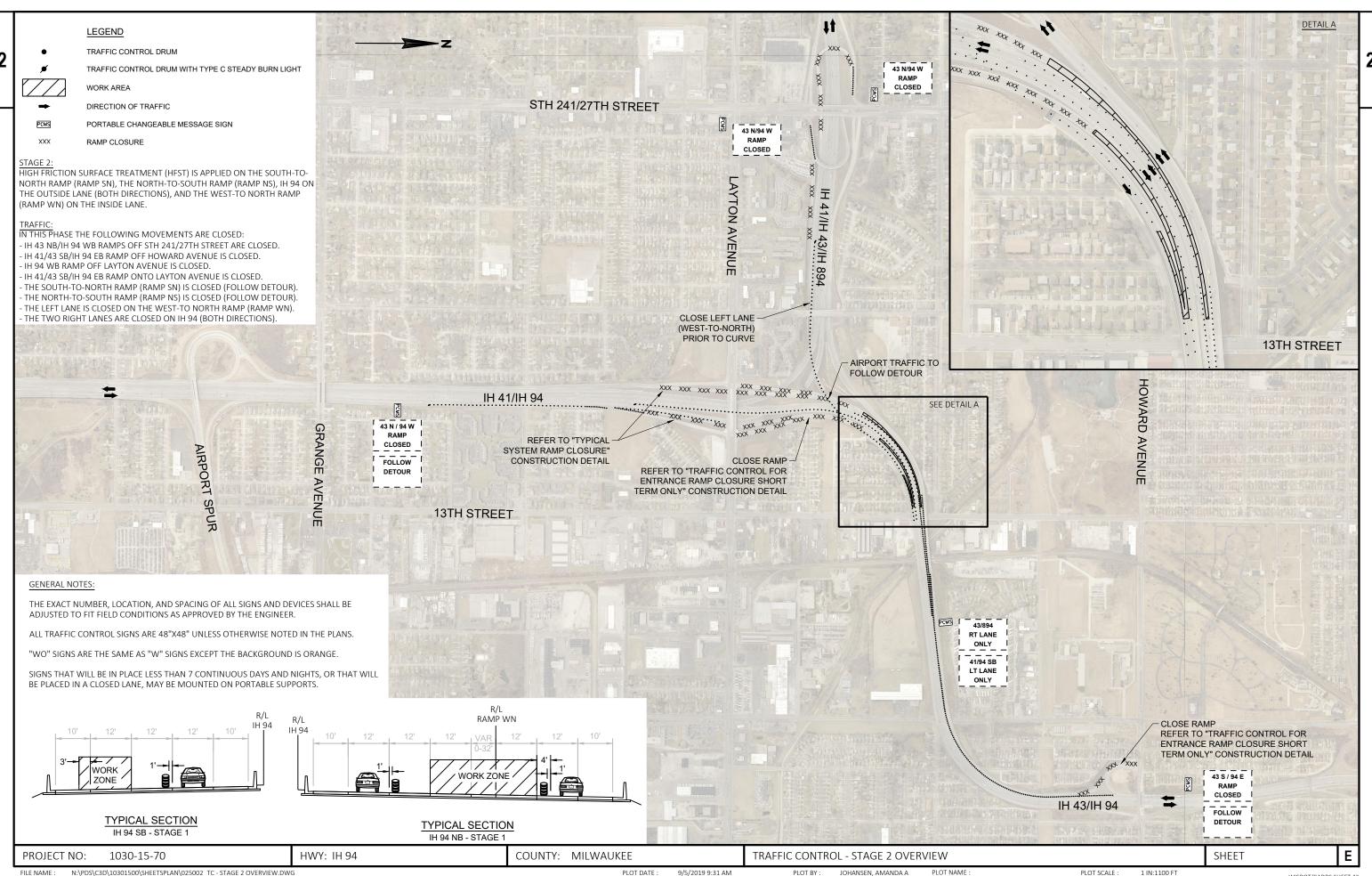


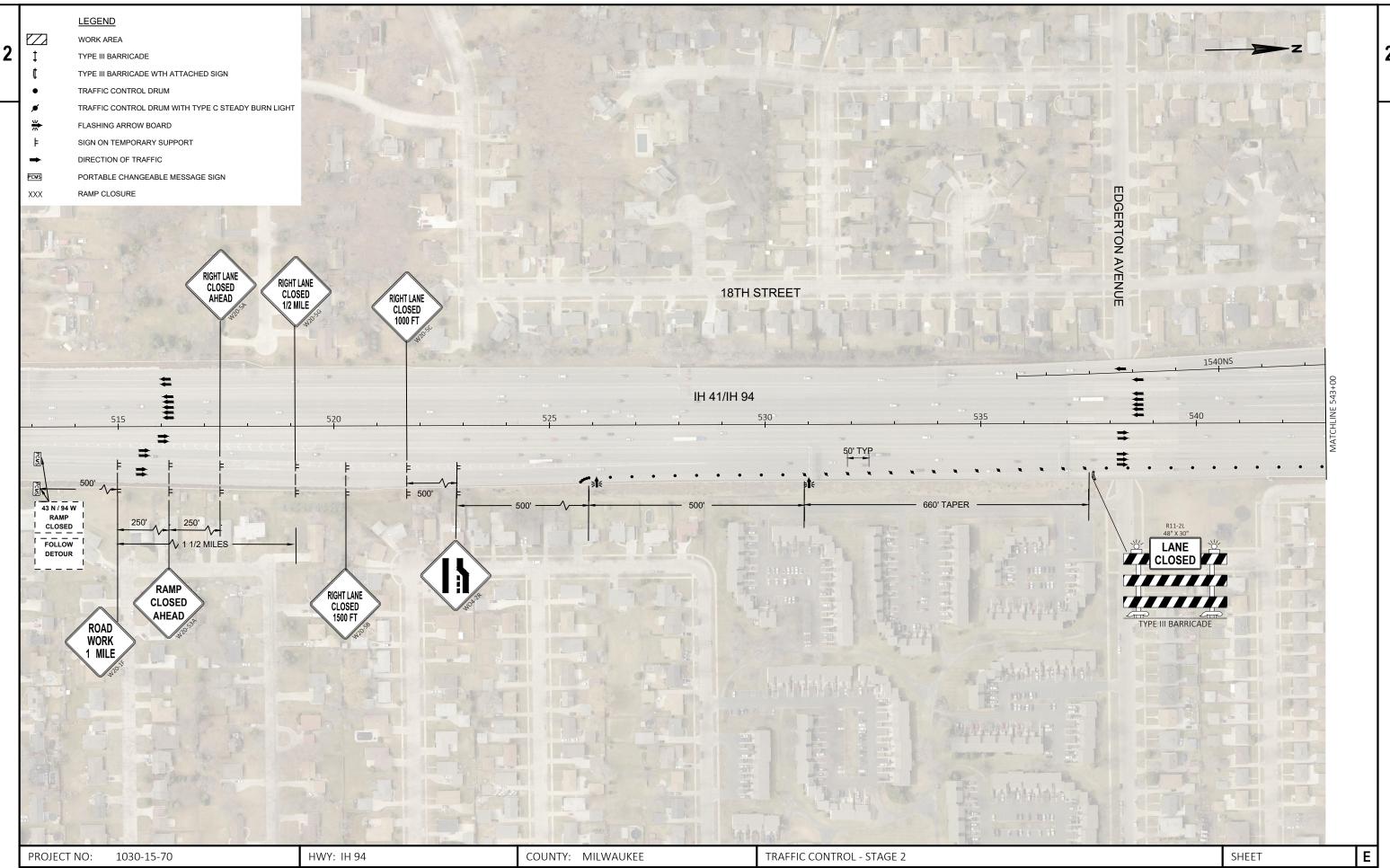


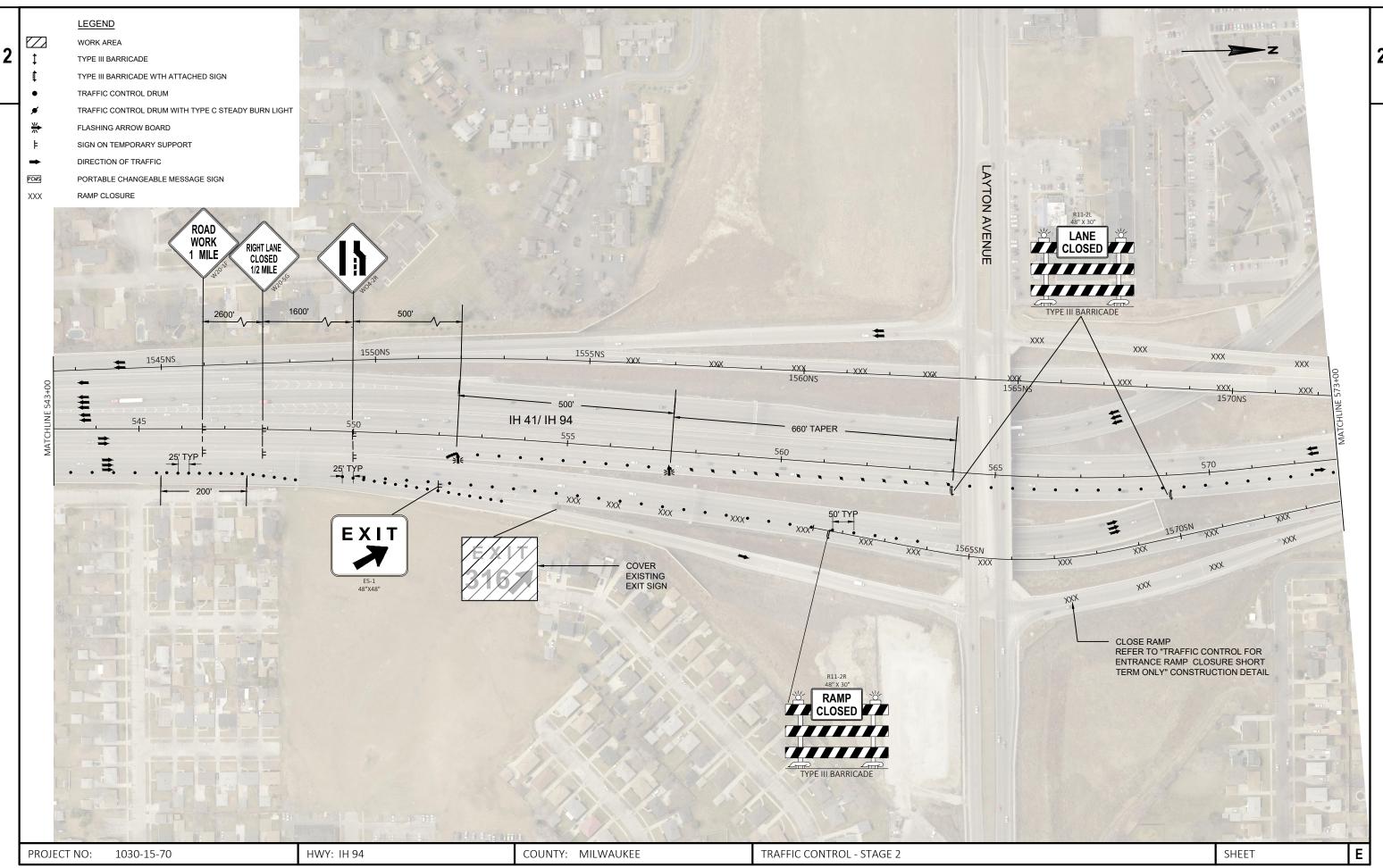


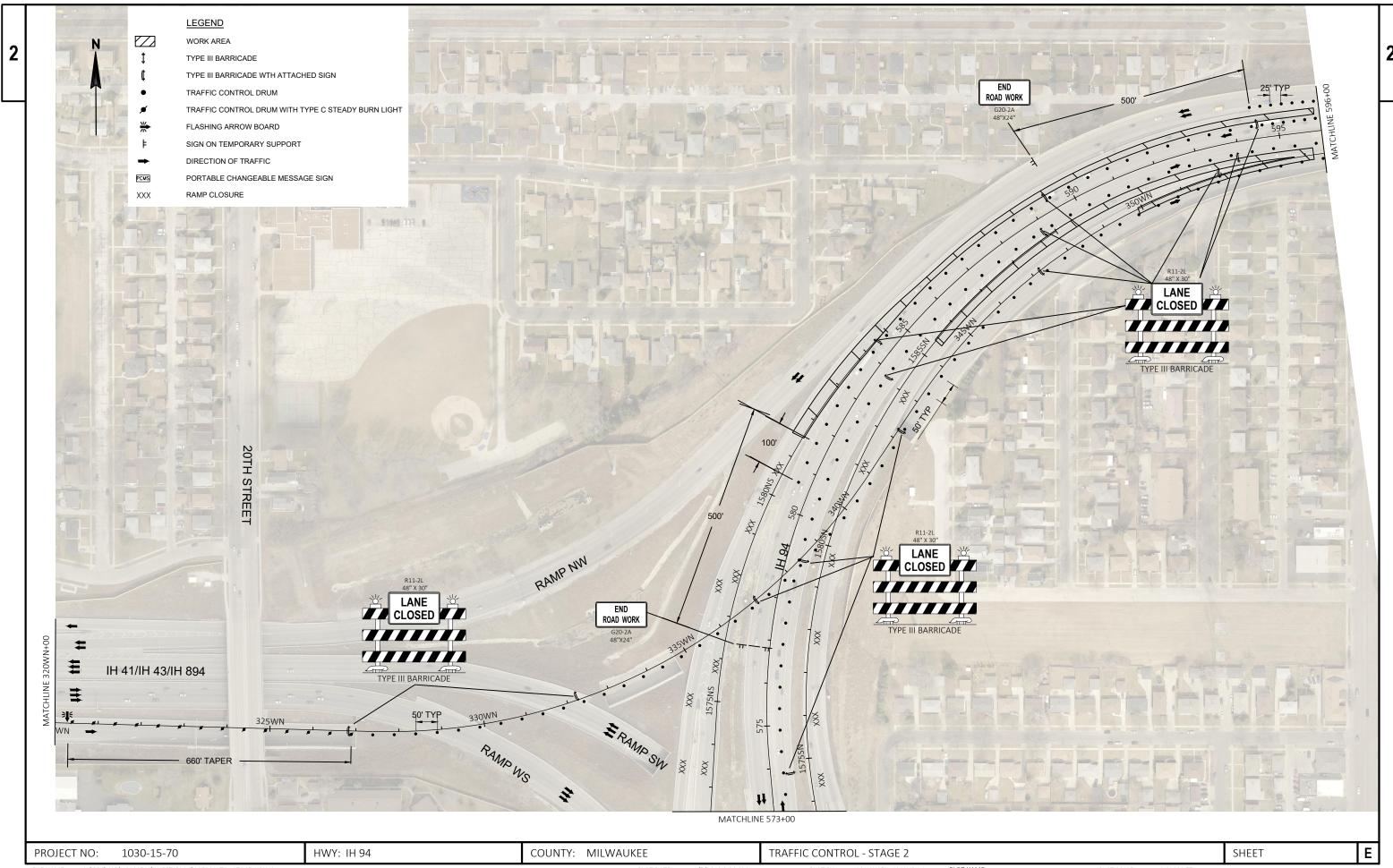
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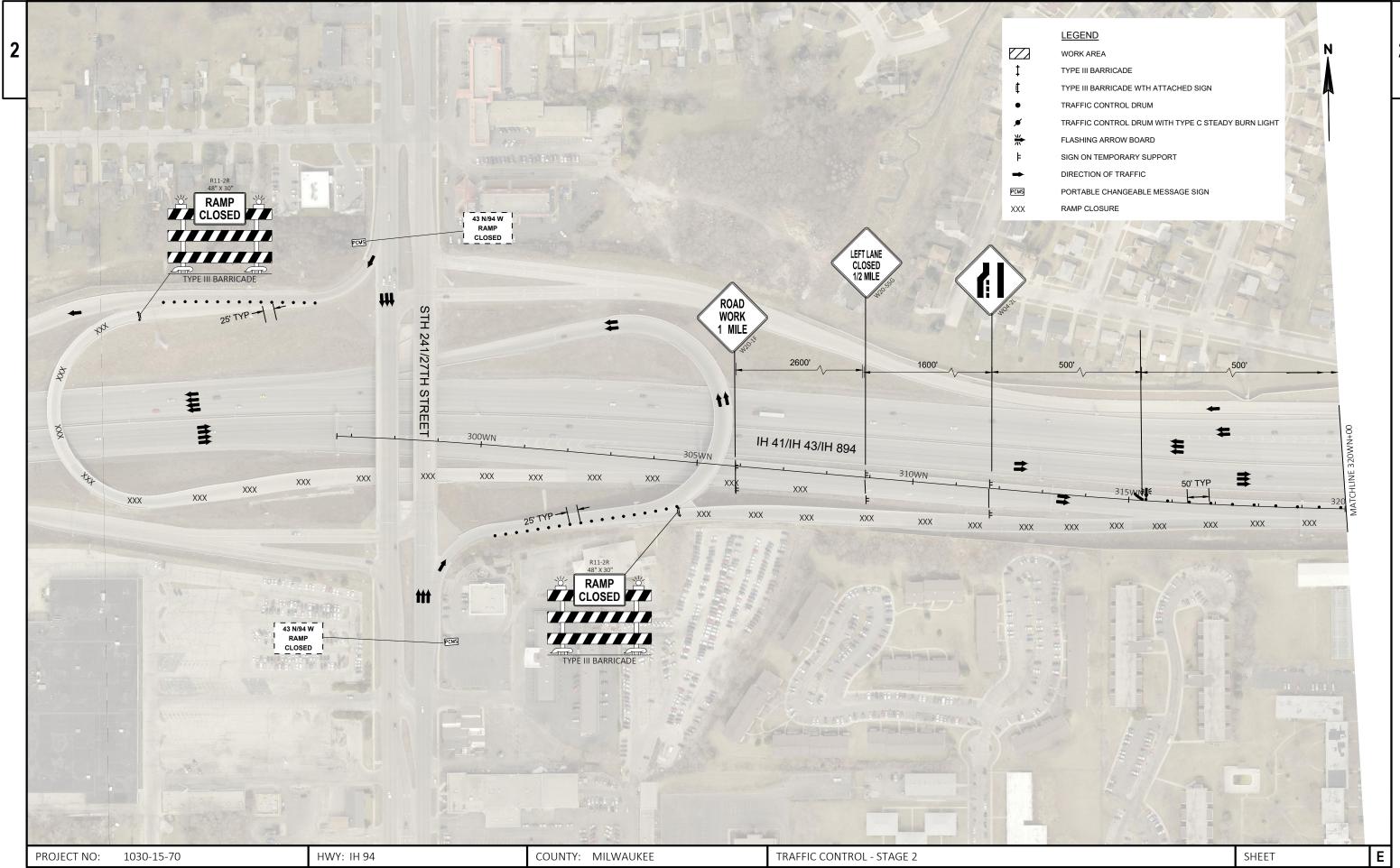


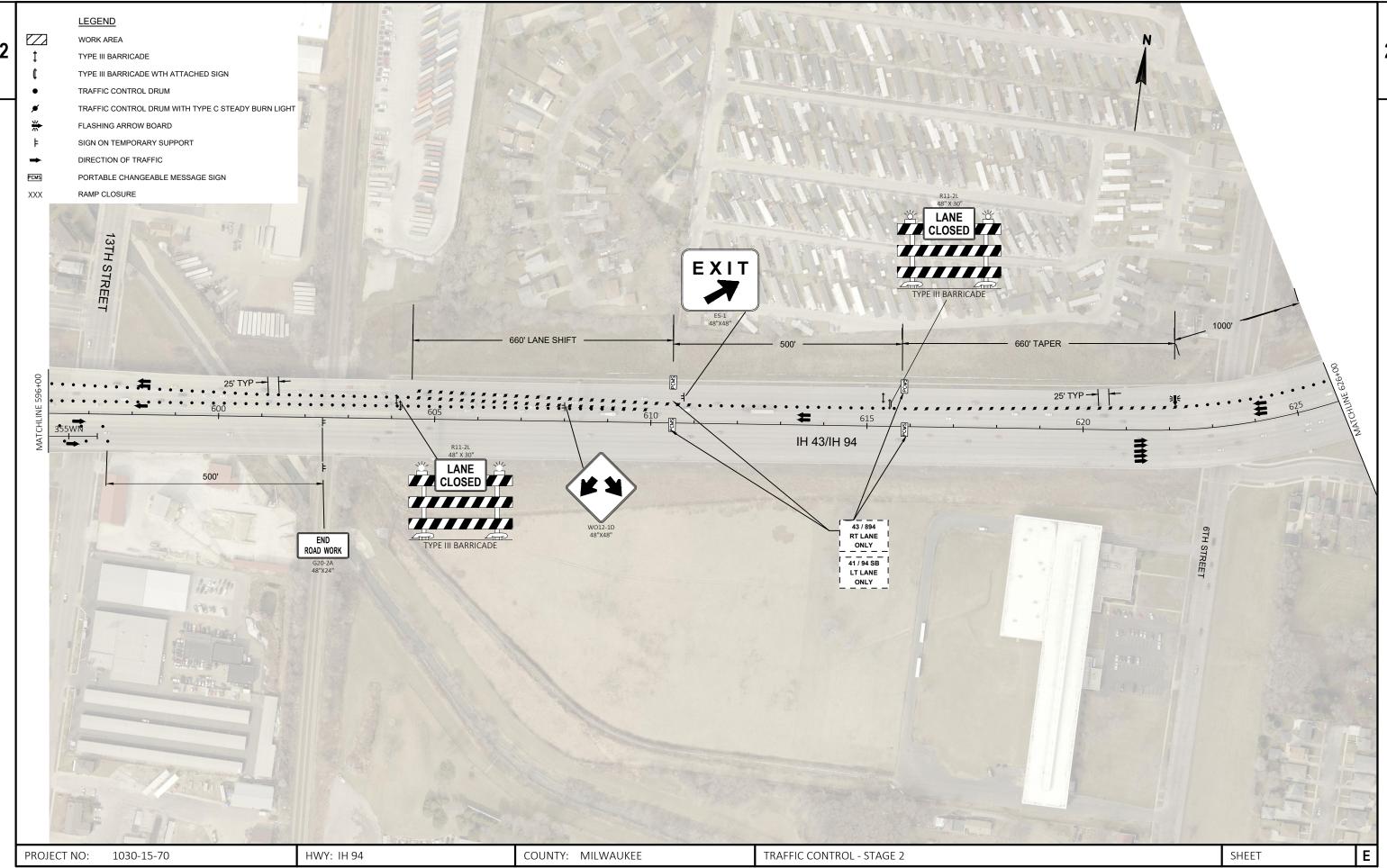




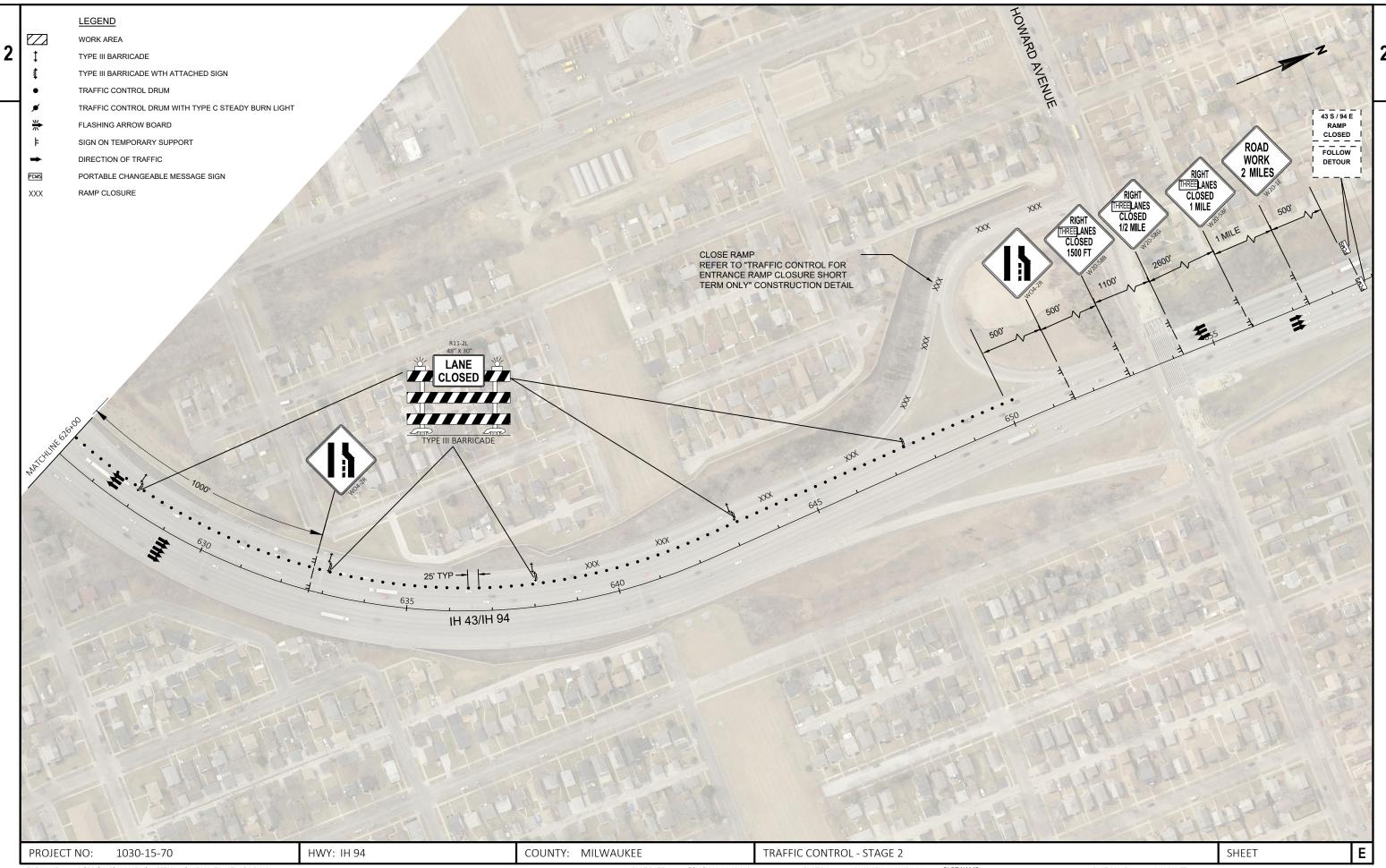


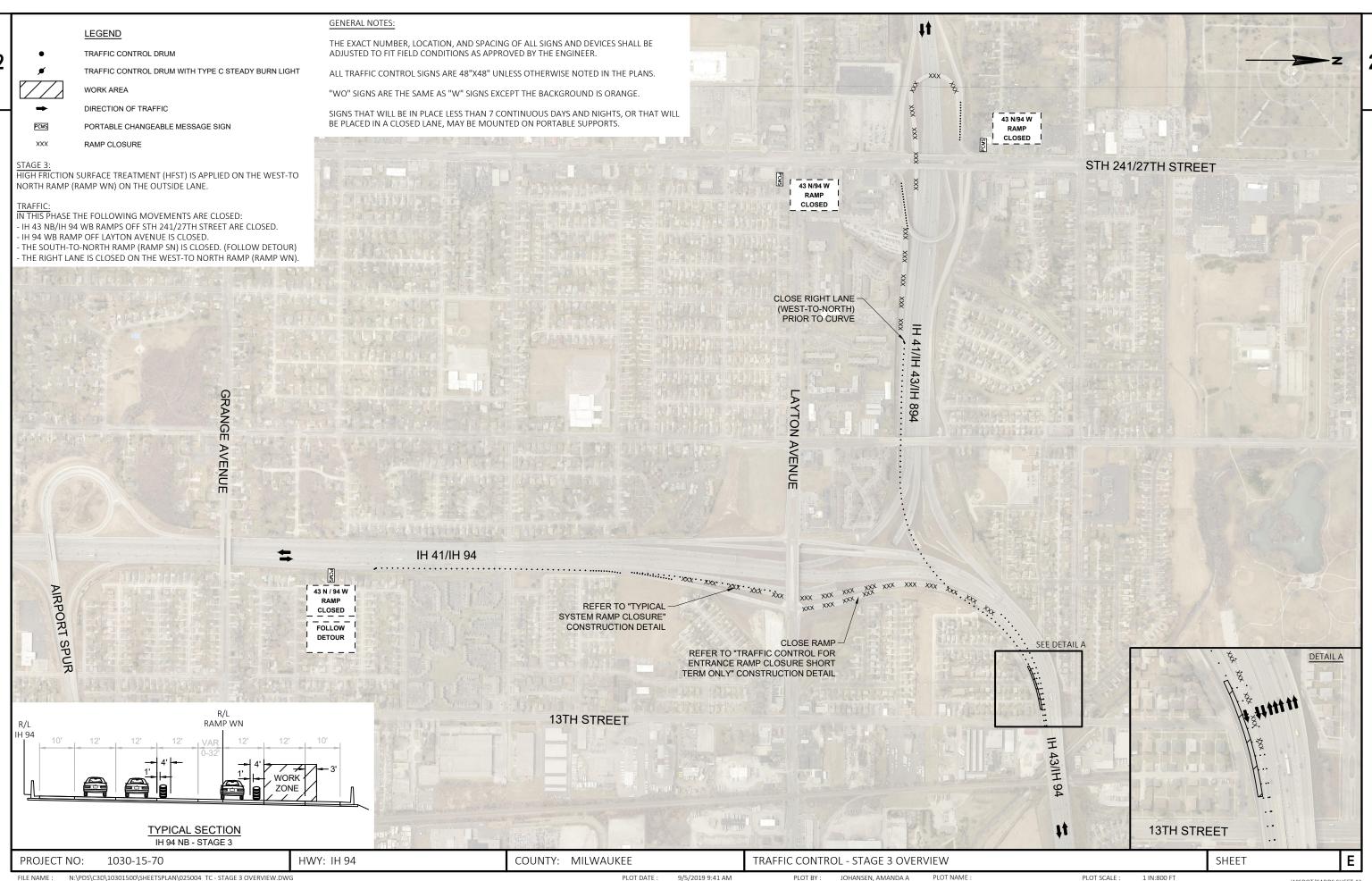


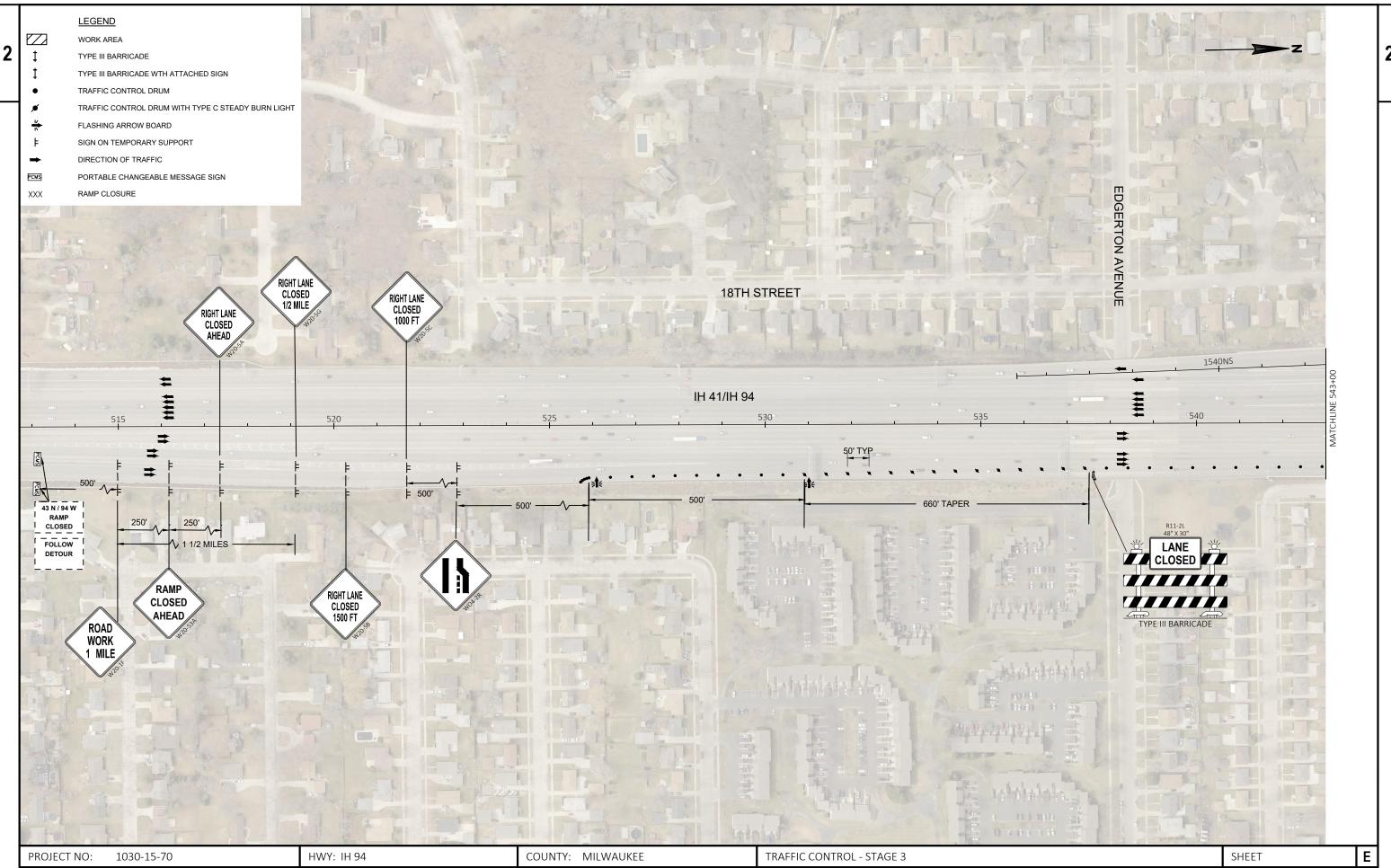




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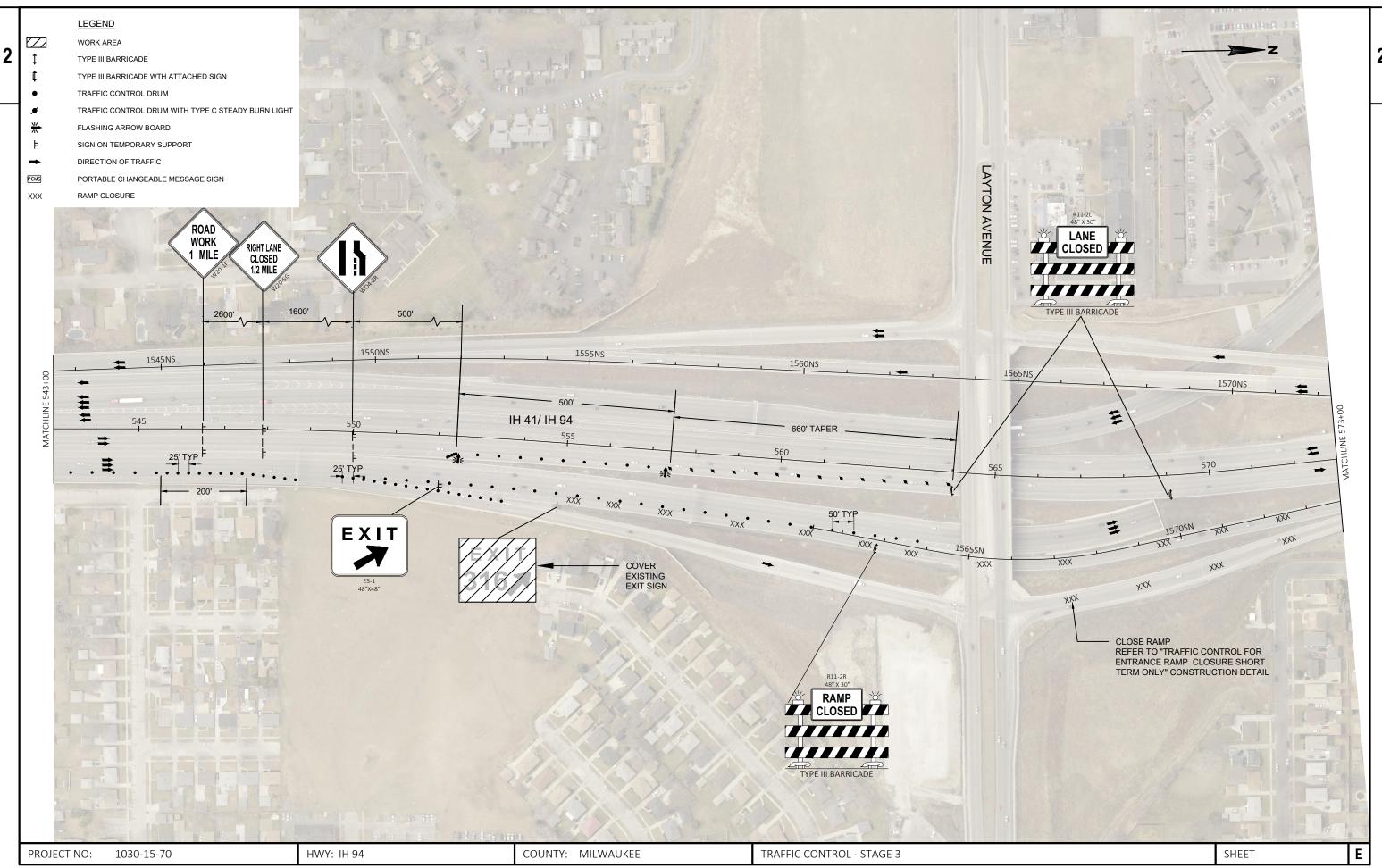


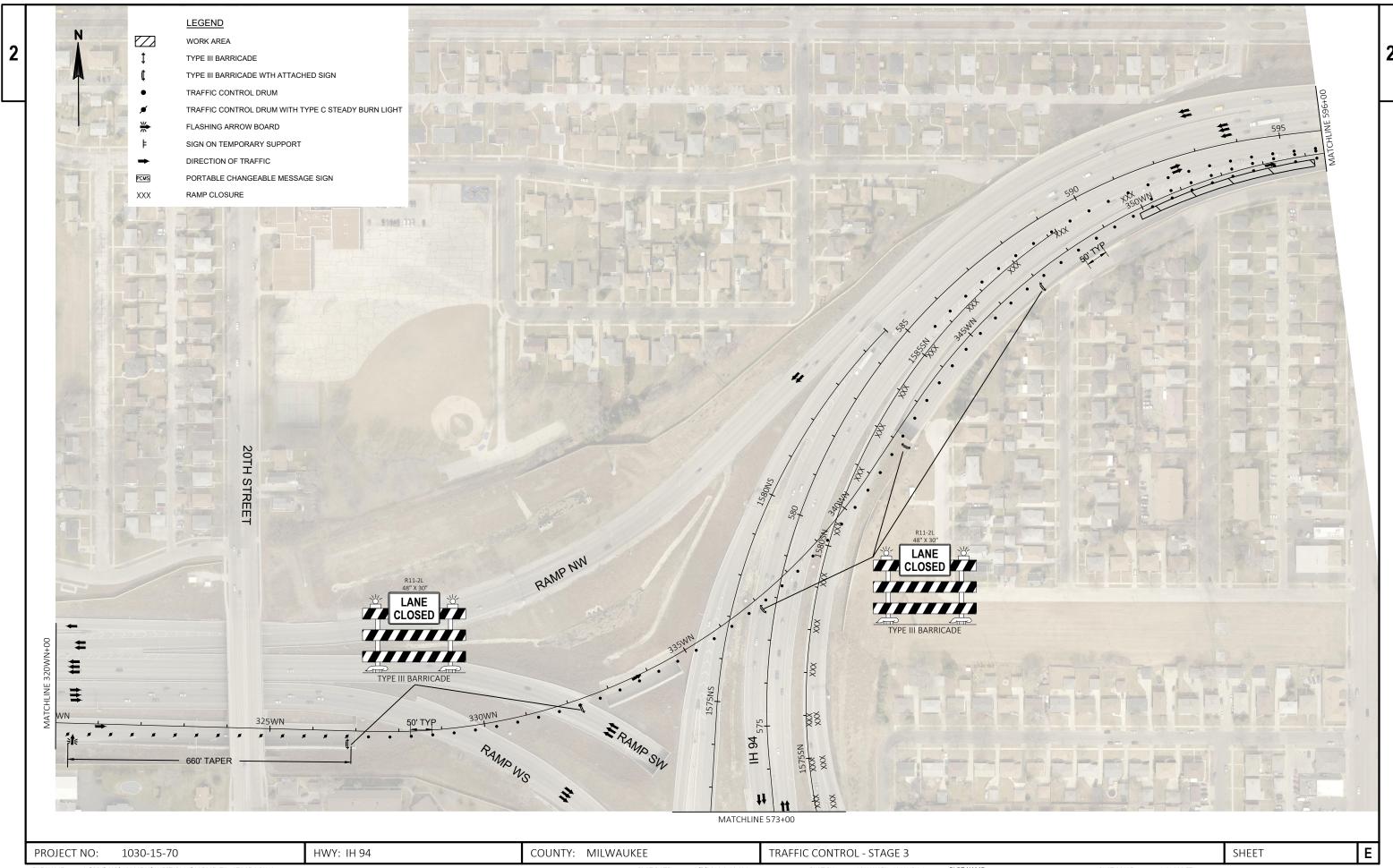


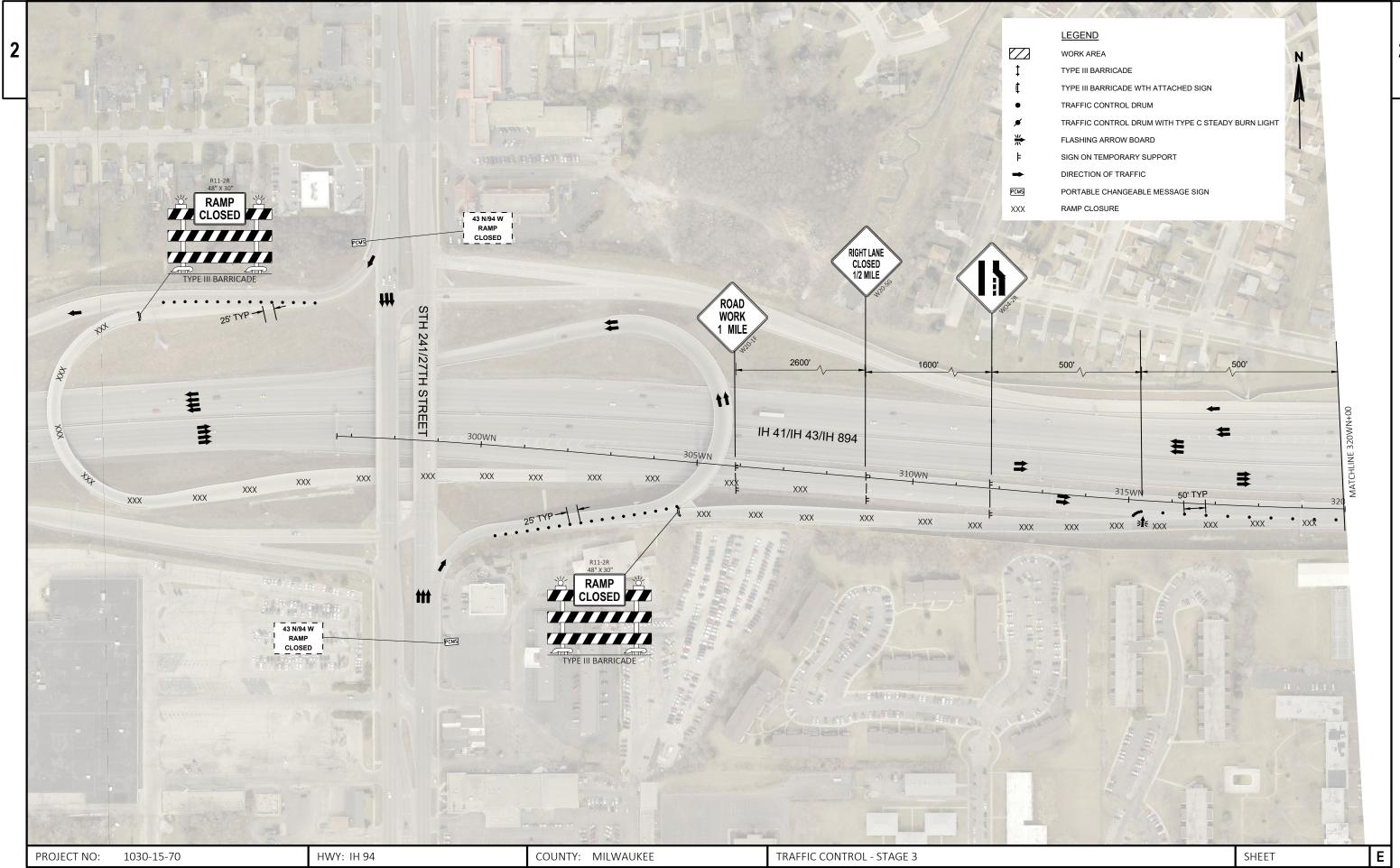


WISDOT/CADDS SHEET 42

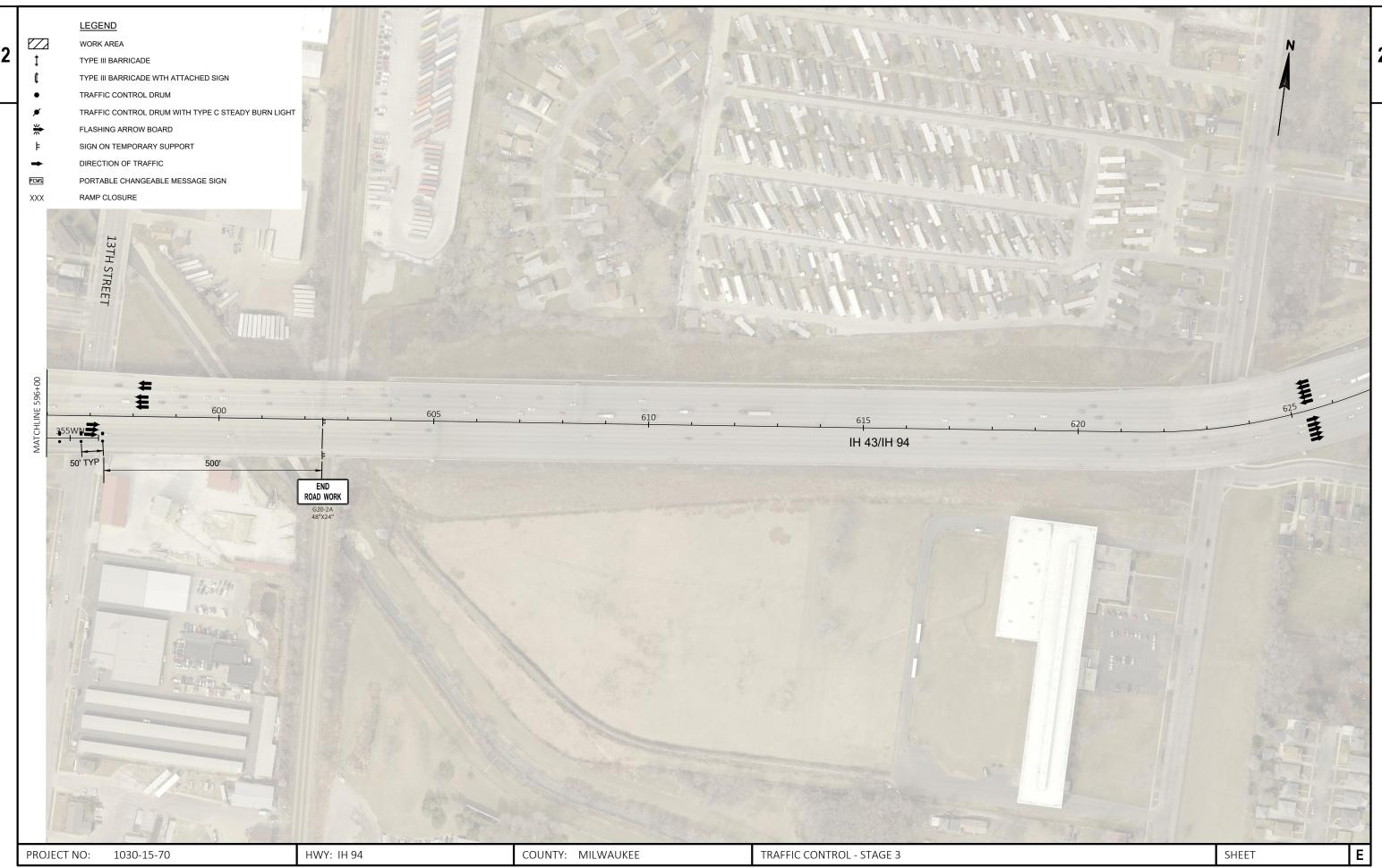
LAYOUT NAME - 025001



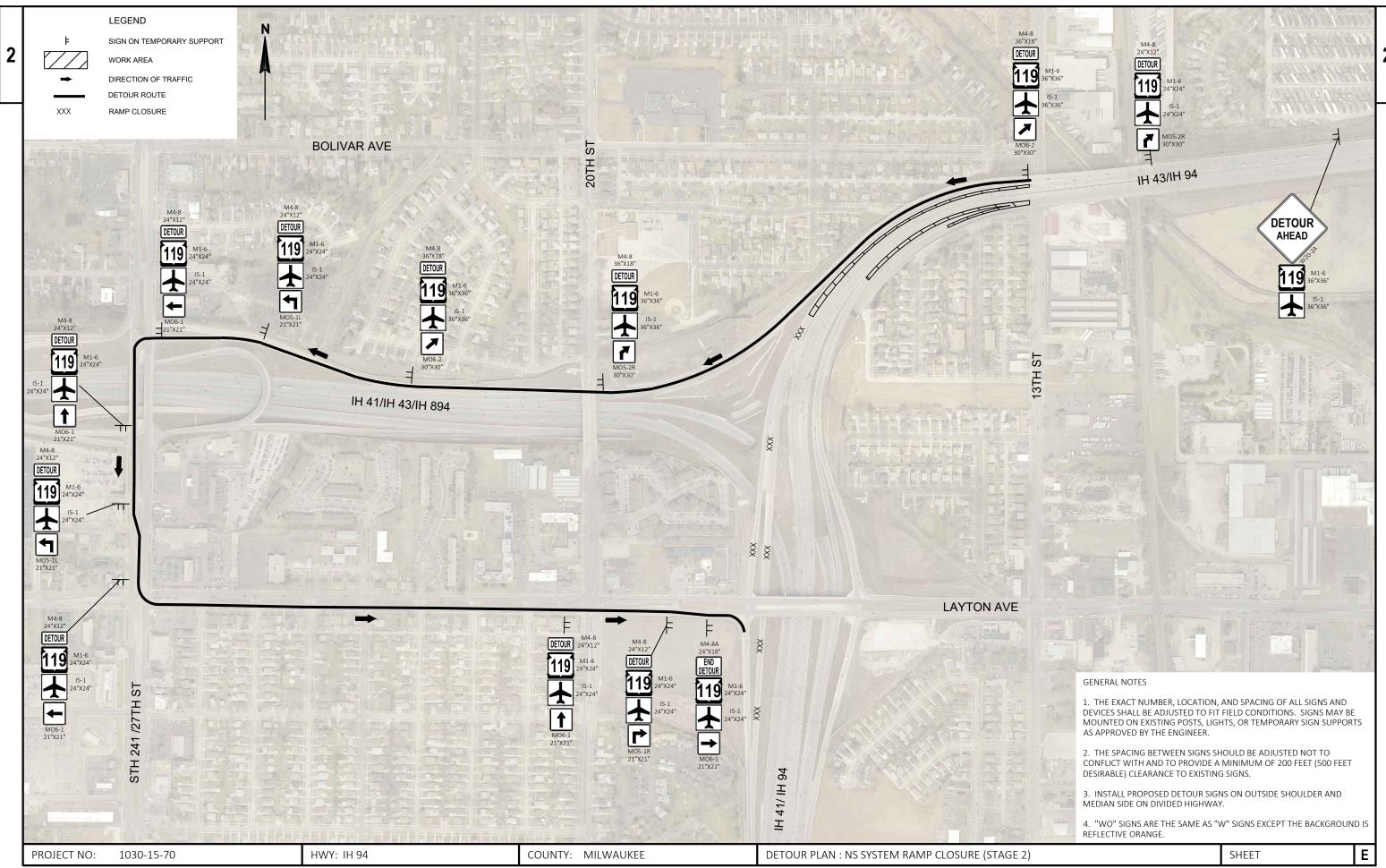




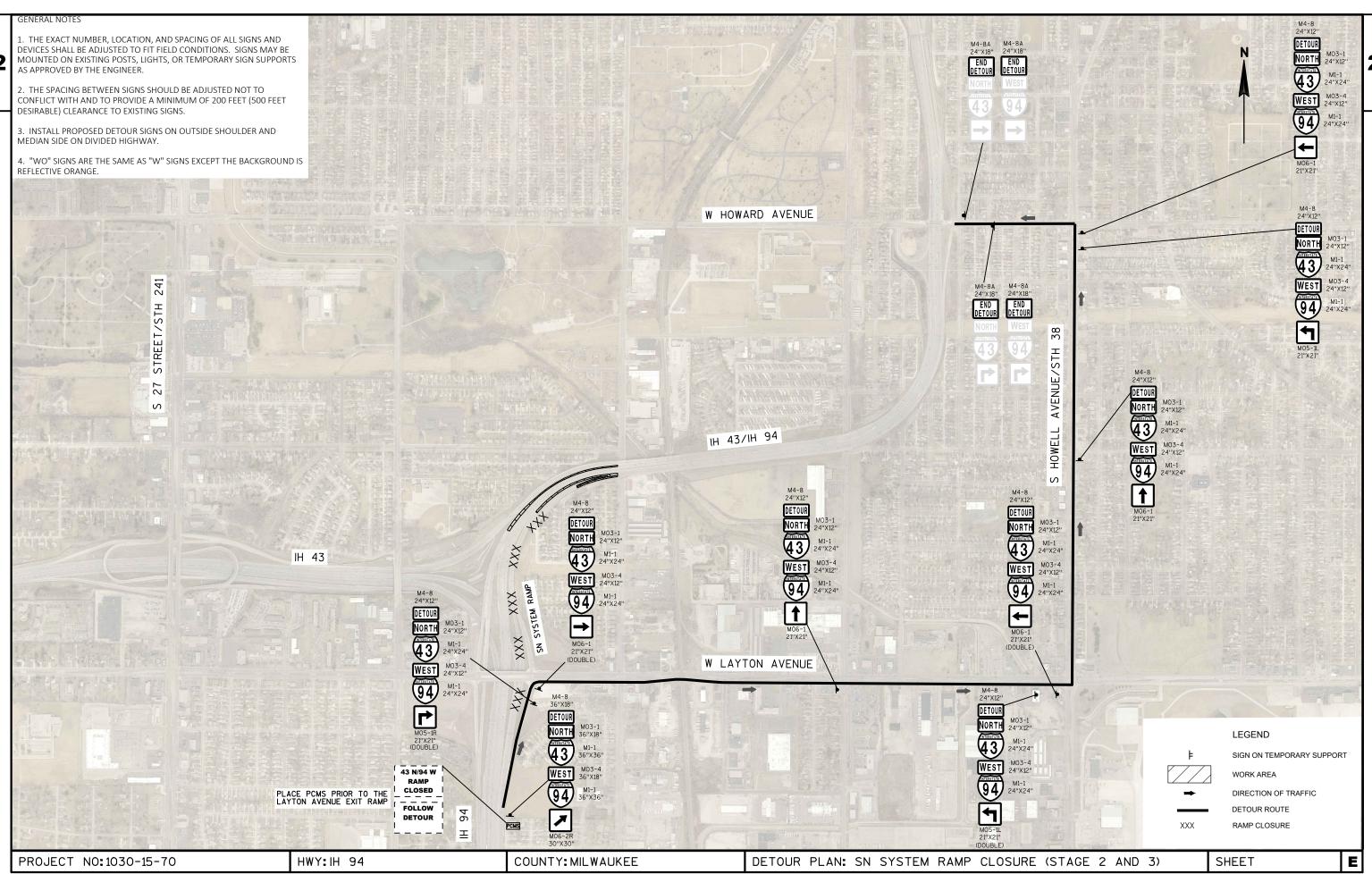
WISDOT/CADDS SHEET 42

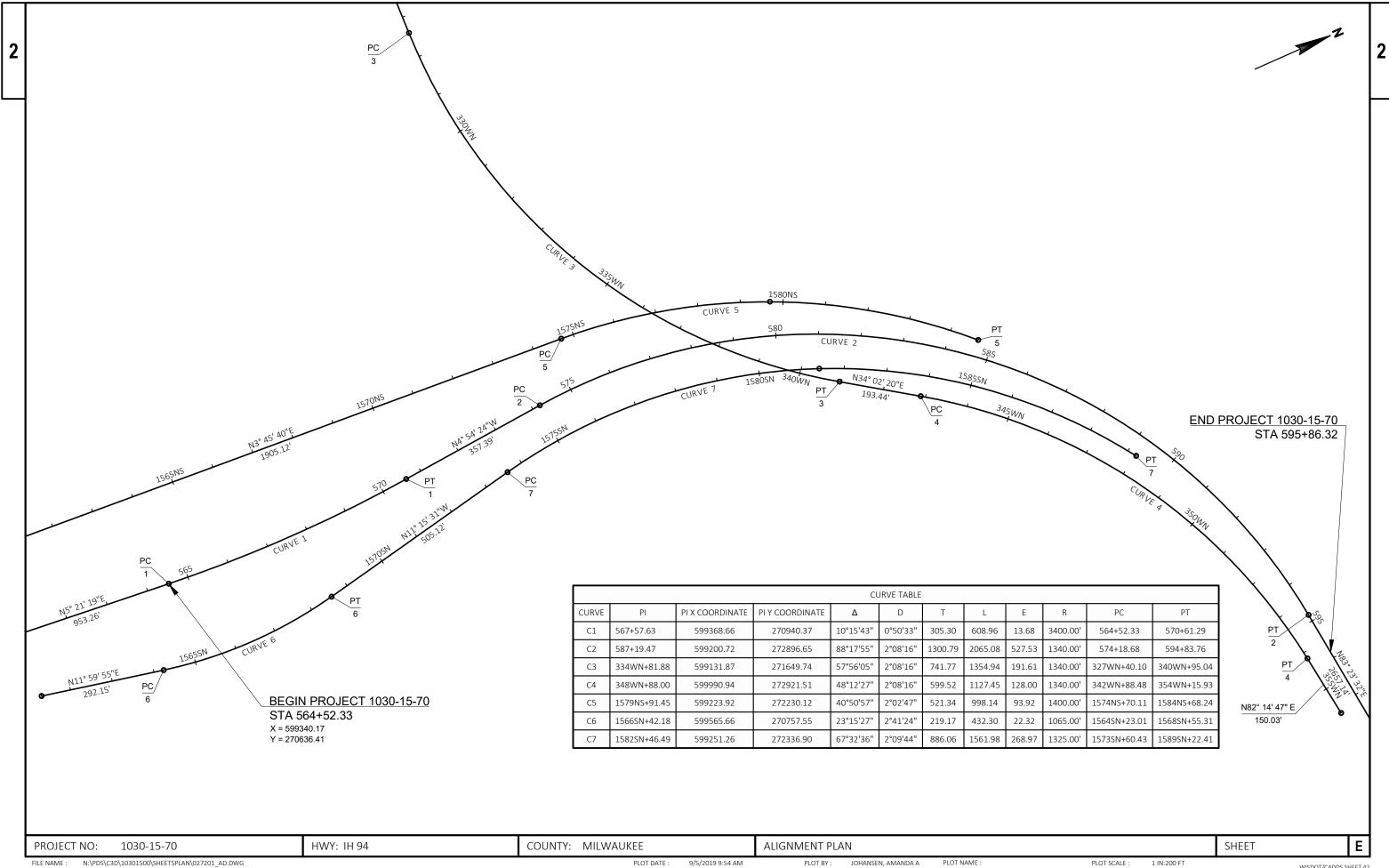


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FILE NAME: N:\PDS\C3D\10301500\SHEETSPLAN\027001\_DT - NS RAMP CLOSURE (STAGE 2).DWG PLOT DATE: 7/12/2019 8:09 AM PLOT BY: MERLINE, HILARY ANN PLOT NAME: PLOT SCALE: 1 IN:500 FT WISDOT/CADDS SHEET 42 AND PLOT DATE: 42 AND PLOT DATE: 7/12/2019 8:09 AM PLOT DATE: 7/12/2019 8:09 AM PLOT NAME: PLOT NAME: PLOT NAME: 1 IN:500 FT WISDOT/CADDS SHEET 42 AND PLOT DATE: 7/12/2019 8:09 AM PLOT DATE: 7/12/2019 8:09 AM PLOT DATE: 7/12/2019 8:09 AM PLOT NAME: PLOT NAME: PLOT NAME: PLOT NAME: 1 IN:500 FT WISDOT/CADDS SHEET 42 AND PLOT DATE: 7/12/2019 8:09 AM PLOT DATE: 7/12/2019 8:09 AM PLOT DATE: 7/12/2019 8:09 AM PLOT NAME: PLOT NAME:





9/5/2019 9:54 AM WISDOT/CADDS SHEET 42 LAYOUT NAME - 027201

					1030-15-70
Line	Item	Item Description	Unit	Total	Qty
0002	213.0100	Finishing Roadway (project) 1030-15-70	EACH	1.000	1.000
0004	619.1000	Mobilization	EACH	1.000	1.000
0006	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0008	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0010	628.7010	Inlet Protection Type B	EACH	68.000	68.000
0012	628.7555	Culvert Pipe Checks	EACH	5.000	5.000
0014	628.7570	Rock Bags	EACH	203.000	203.000
0014	643.0300	Traffic Control Drums	DAY	5,578.000	5,578.000
0018	643.0420	Traffic Control Barricades Type III	DAY	290.000	290.000
0020	643.0705	Traffic Control Warning Lights Type A	DAY	580.000	580.000
0020	643.0715	Traffic Control Warning Lights Type C	DAY	958.000	958.000
0022	643.0800	Traffic Control Arrow Boards	DAY	79.000	79.000
0024	643.0900	Traffic Control Signs	DAY	1,399.000	1,399.000
0028	643.0920	<u> </u>	EACH	8.000	
		Traffic Control Covering Signs Type II Traffic Control Signs PCMS			8.000
0030	643.1050		DAY	156.000	156.000
0032	643.4100.S	Traffic Control Interim Lane Closure Traffic Control	EACH	10.000 1.000	10.000
0034	643.5000		EACH		1.000
0036	646.1020	Marking Line Epoxy 4-Inch	LF	14,240.000	14,240.000
0038	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	650.000	650.000
0040	646.7120	Marking Diagonal Epoxy 12-Inch	LF	2,030.000	2,030.000
0042	646.7220	Marking Chevron Epoxy 24-Inch	LF	1,798.000	1,798.000
0044	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	14,240.000	14,240.000
0046	649.0155	Temporary Marking Line Removable Contrast Tape 4-Inch	LF	650.000	650.000
0048	649.0960		LF	1,525.000	1,525.000
0050	649.0970	Temporary Marking Removable Mask Out Tape 10-Inch	LF	2,951.000	2,951.000
0052	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	900.000	900.000
0054	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	650.000	650.000
0056	SPV.0060	Special 0001. Traffic Control Close-Open Freeway Entrance Ramp	EACH	29.000	29.000
0058	SPV.0060	Special 0002. Traffic Control Full Freeway Closure	EACH	8.000	8.000
0060	SPV.0060	Special 0003. Traffic Control Close-Open Freeway to Freeway System Ramp	EACH	9.000	9.000
0062	SPV.0090	Special 0003. Concrete Barrier Type S42 & S56 Reposition	LF	700.000	700.000
0064	SPV.0180	Special 0001. Resin Binder High Friction Surface Treatment	SY	26,377.000	26,377.000

	EROSION CON	NTROL				HIGH FRICTIO	ON SURFACE TREATMENT	
	CATEGORY LOCATION STATION TO S	INLET PROTECTION R TYPE B B.	3.7570 628.7555 CULVERT OCK PIPE AGS CHECKS ACH EACH		CATEGORY STAGE 1000 1	LOCATION IH 94 NB	STATION TO STATION OFFSE 564+52 - 596+55 RT	SPV.0180.0001 RESIN BINDER HIGH FRICTION SURFACE TREATMENT T SY  9,887
3	RAMP SN 1585+43SN - 15 RAMP NS 1581+52NS - 15	589+22SN 4 584+68NS 3	41 1 12 1 9 1 1			IH 94 SB STAGE 1 TOTAL	564+52 - 596+55 LT	20,010
	UNDISTRIBUTED		41 1		2	RAMP NS/IH 94 RAMP SN/RAMP WN	1581NS+52 - 596+55 LT 1585SN+43 - 354WN+90 RT/LT	
	TOTAL	68 2	5		3	STAGE 2 TOTAL  RAMP WN	349WN+88 - 354WN+87 RT	5,624 744
	MOBILIZATIO	ONS				TOTAL		26,377
		628.1905 628. BILIZATIONS MOBILIZATION	1910 S EMERGENCY			CONCRET	TE BARRIER REPOSITION	
	MOBILIZATION EROS  CATEGORY PROJECT EACH	SION CONTROL EROSION					SPV.0090.0003 CONCRETE BARRIER TYPE S42 & S56 REPOSITION	
	1000 1030-15-70 1	3 ;	3			CATEGORY LOCATION	LF	_
	TOTAL 1	3	3			1000 UNDISTRIBU	TED 700	
		PAVEN	MENT MARKING ITEMS					
		646.1020 MARKING LINE EPOXY	646.1545  MARKING LINE  GROOVED WET REF  CONTRAST EPOXY	646.7120 MARKING DIAGONAL EPOXY	646.7220 MARKING CHEVRON EPOXY	649.0960 649.0970 TEMPORARY MARKING REMOVABLE		
		4-INCH	4-INCH 12.5 FT LINE 37.5 FT SKIP	12-INCH	24-INCH	MASK OUT TAPE 6-INCH 10-INCH	<u>FINIS</u>	HING ROADWAY  213.0100 FINISHING ROADWAY
	CATEGORY LOCATION STATION TO STATION	WHITE YELLOW LF LF	WHITE LF	WHITE YELL( LF LF		LF LF		PROJECT (1030-15-70)
	1000 IH 43/94 NB 564+00 - 604+50 IH 43/94 SB 564+00 - 604+50 RAMP NS 1580NS+99 - 1584NS+ RAMP SN 1584SN+93 - 590+9 RAMP WN 349WN+28 - 599+70 RAMP NW  SUBTOTAL	0 2,668 3,592 +68 337 1 569	650     650	278 506 373 505 55 84 145 84 1,019 1,011	401 128 210 256 300	238 1,081 1,088 580 88 317 544 113 429 1,525 2,951	1000 1030-15- TOTAL	
$\mid$	PROJECT NO: 1030-15-70 HWY: IH 94		COUNTY: MILWAUKEE		MISCELLANEOU	S QUANTITIES	<u> </u>	SHEET: E

#### TEMPORARY PAVEMENT MARKING ITEMS

649.0150 649.0155 **TEMPORARY** TEMPORARY MARKING MARKING LINE LINE REMOVABLE REMOVABLE TAPE CONTRAST TAPE 4-INCH 4-INCH 12.5 FT LINE 37.5 FT SKIP WHITE YELLOW WHITE CATEGORY LOCATION STATION TO STATION LF LF LF 1000 IH 43/94 NB 564+00 - 604+50 2,052 3,550 650 IH 43/94 SB 564+00 - 604+50 2,668 3,592 RAMPSN 1580NS+99 - 584NS+6 337 RAMPNS 1584SN+93 - 590+91 569 RAMPWN 349WN+28 599+71 869 RAMPNW 603 SUBTOTAL 7,098 7,142 650 TOTAL 14,240 650

#### TRAFFIC CONTROL

			643.4100.S	SPV.0060.0001 TRAFFIC CONTROL	SPV.0060.0002 TRAFFIC CONTROL	SPV.0060.0003 TRAFFIC CONTROL
			TRAFFIC CONTROL	CLOSE-OPEN FREEWAY	FULL FREEWAY	CLOSE-OPEN FREEWAY
			INTERIM LANE CLOSURE	ENTRANCE RAMP	CLOSURE	TO FREEWAY SYSTEM RAMP
CATEGORY	STAGE	LOCATION	EACH	EACH	EACH	EACH
1000	4	11104			0	
1000	1	IH 94		<del></del> 8	8	<del></del>
		STH 241 ENTRANCE RAMPS		Ö		
		RAMP WN	4			
	2	NS SYSTEM RAMP				3
		SN SYSTEM RAMP				3
		LAYTON AVENUE ENTRANCE RAMP		3		
		STH 241 ENTRANCE RAMPS		6		
		HOWARD AVENUE ENTRACE RAMP		3		
		RAMP WN	3			
	3	SN SYSTEM RAMP			<del></del>	3
		LAYTON AVENUE ENTRANCE RAMP		3		
		STH 241 ENTRANCE RAMPS		6		
		RAMP WN	3			
		TOTAL	10	29	8	9

				643	.0300	643	.0420		3.0705	643.	0715	643	0080.		643.0	0900		643.09	920	643	3.1050
			STAGE DURATION	CON	AFFIC NTROL RUMS	CON BARR	AFFIC ITROL ICADES PE III	COI WA LIC	AFFIC NTROL RNING GHTS 'PE A	CON WAR	FFIC TROL NING TYPEC	CON ARI	AFFIC ITROL ROW ARDS		TRA CONT SIG	TROL INS	OUR)	TRAFFIC C COVERING TYPE NUMBER	SIGNS	CON SI	AFFIC NTROL IGNS CMS
CATEGORY	STAGE	LOCATION	DAYS	EACH	DAYS		DAYS		I DAYS		DAYS			EACH	DAYS		DAYS	OF CYCLES	EACH		H DAYS
1000	1	IH 94 RAMP WN	4	292 120	1,168 480	14 8	56 32	28 16	112 64	59 14	236 56	4 2	16 8	41 16	164 64	 		 	 	11 2	54 8
	2	IH 94 RAMP WN	3	538 120	1,614 360	29 8	87 24	58 16	174 48	102 14	306 42	5 2	15 6	79 16	237 48	109 	327	3 	3	9 2	37 6
	3	IH 94 RAMP WN	3	161 119	483 357	4 7	12 21	8 14	24 42	28 14	84 42	4 2	12 6	27 15	81 45	51 	153 	3	3 	3 2	14 6
		UNDISTRIBUTED			1,116		58		116		192		16		160		120		2		31
		TOTAL			5,578		290		580		958		79		1,39	99			8		156

#### TRAFFIC CONTROL

643.5000
TRAFFIC CONTROL

CATEGORY LOCATION EACH

1000 PROJECT 1030-15-70 1

TOTAL 1

PROJECT NO: 1030-15-70

HWY: IH 94

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET:

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FILE NAME : N:\PDS\C3D\10301500\SheetsPlan\030201\_mq.pptx

PLOT DATE :

PLOT BY:

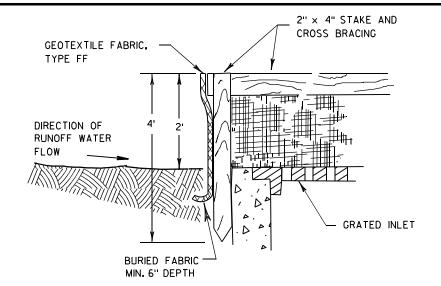
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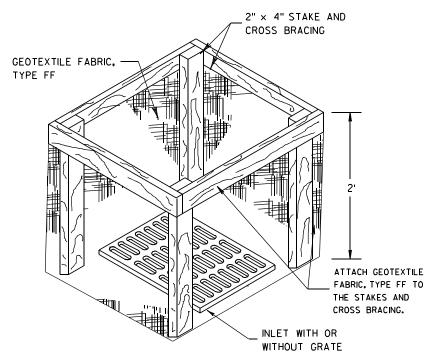
PLOT SCALE: 1:1

# Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C31-03A	PAVEMENT MARKING (RAMPS AND GORES)
15С31-ОЗВ	PAVEMENT MARKING MAJOR SPLIT FREEWAY TO FREEWAY
15D14-03	TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT-TERM (LESS THAN 24 HOURS)
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

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#### INLET PROTECTION, TYPE A

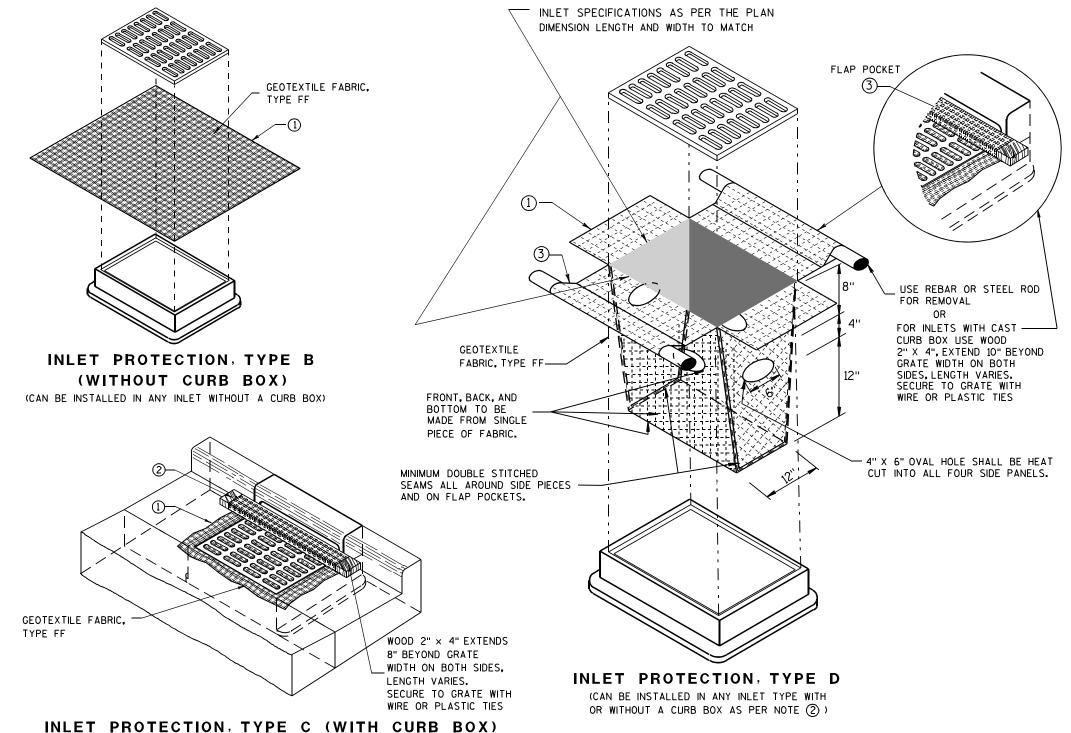
#### **GENERAL NOTES**

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.



#### **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

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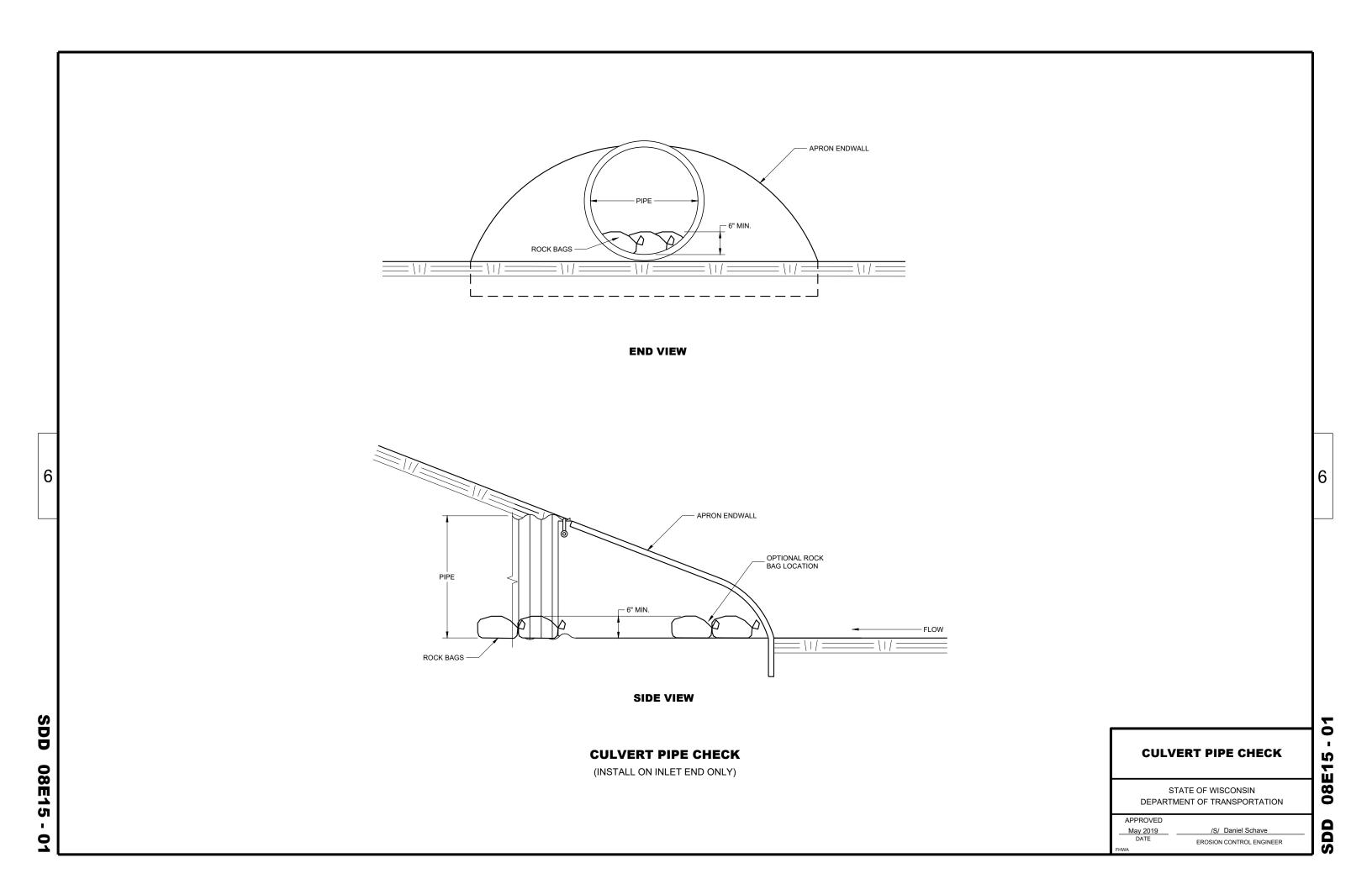
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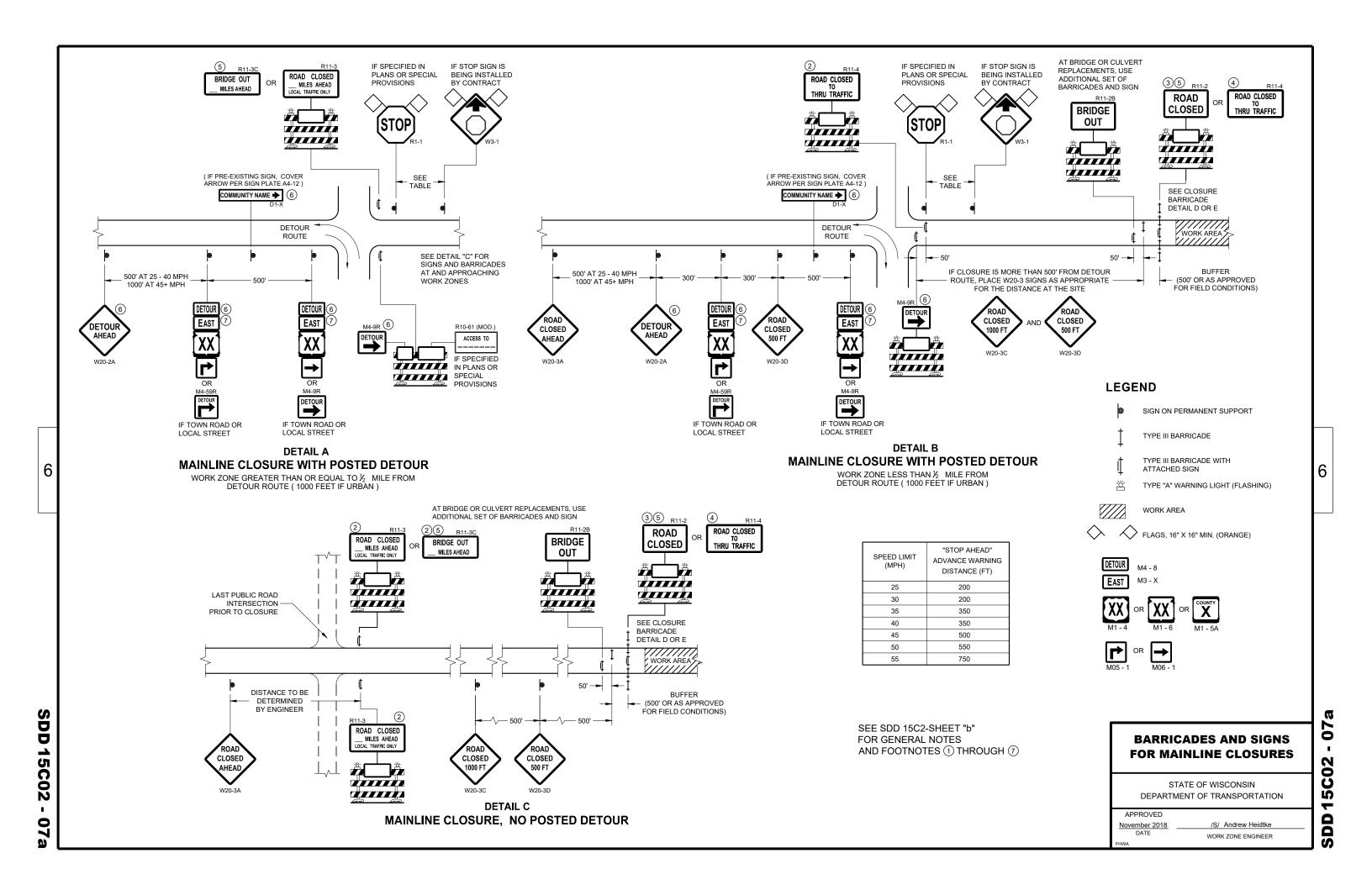
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

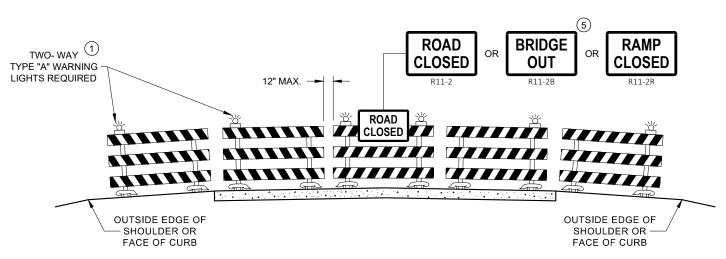
APPROVED

10/16/02 /S/ Beth Cannestra

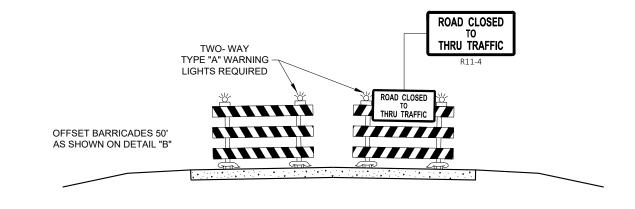
CHIEF ROADWAY DEVELOPMENT ENGINEER







#### **DETAIL D** ROAD CLOSURE BARRICADE DETAIL **APPROACH VIEW**



**DETAIL E** LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

#### **GENERAL NOTES**

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

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

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

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

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

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

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

THE R11 - 2. R11 - 3. M4 - 9. R11 - 4. AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)

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

R1 - 1 SHALL BE 36" X 36"

- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE 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
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

#### **BARRICADES AND SIGNS** FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

**APPROVED** 

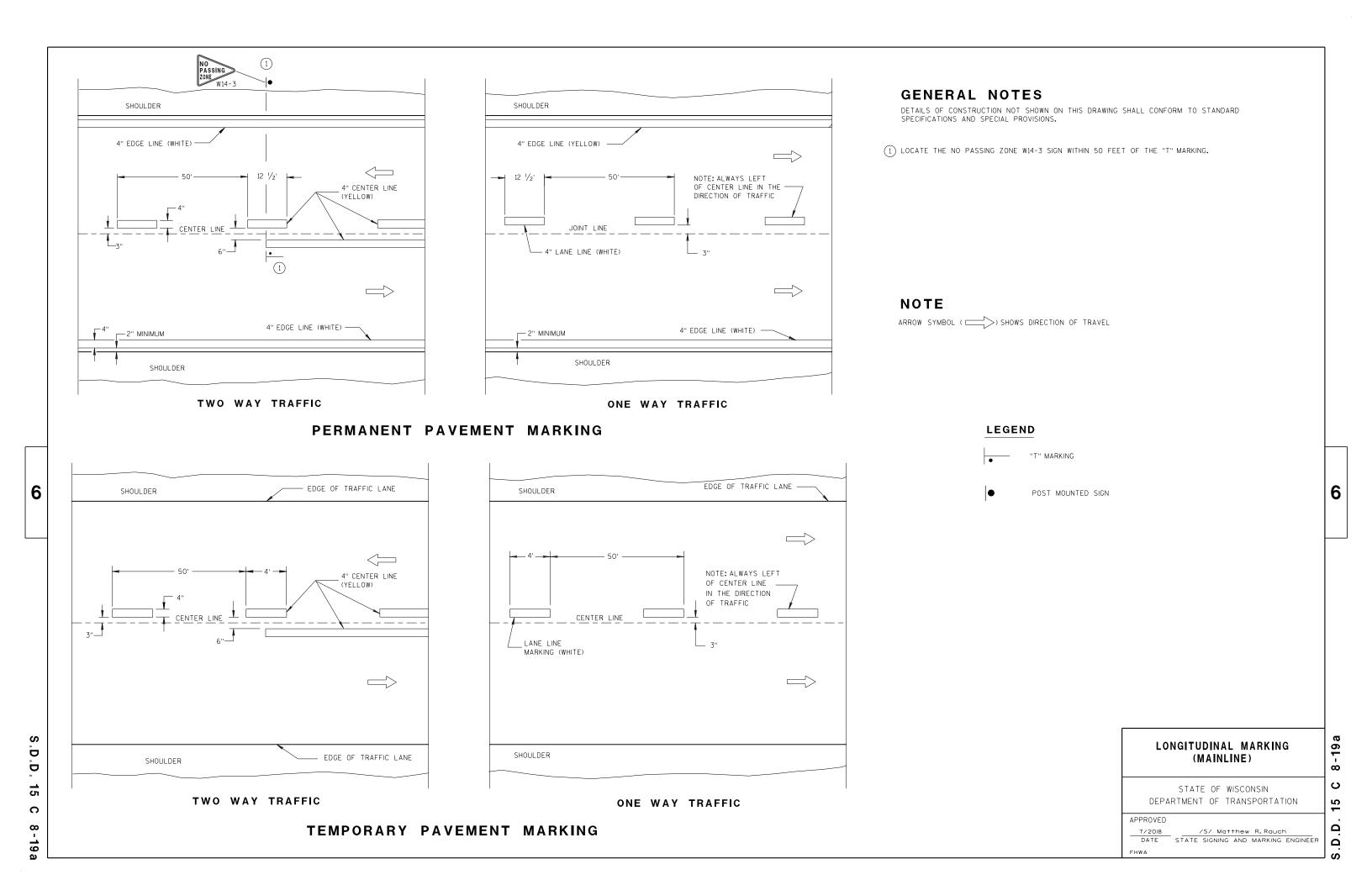
November 2018 DATE

WORK ZONE ENGINEER

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# 36" MIN.

36" MIN.

DRUM

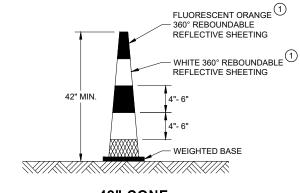
#### **TYPE II BARRICADE**

**SDD 15C11** 

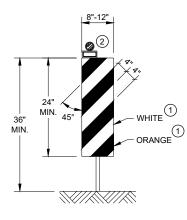
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.

#### **GENERAL NOTES**

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



**42" CONE** DO NOT USE IN TAPERS ½ SPACING OF DRUMS



## **VERTICAL PANEL**

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

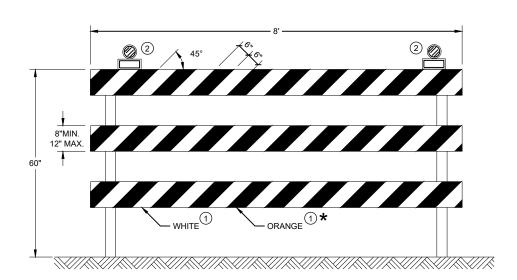
FLUORESCENT ORANGE

WHITE 360° REBOUNDABLE 1

- 360° REBOUNDABLE REFLECTIVE SHEETING

REFLECTIVE SHEETING

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES



#### **TYPE III BARRICADE**

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

\* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

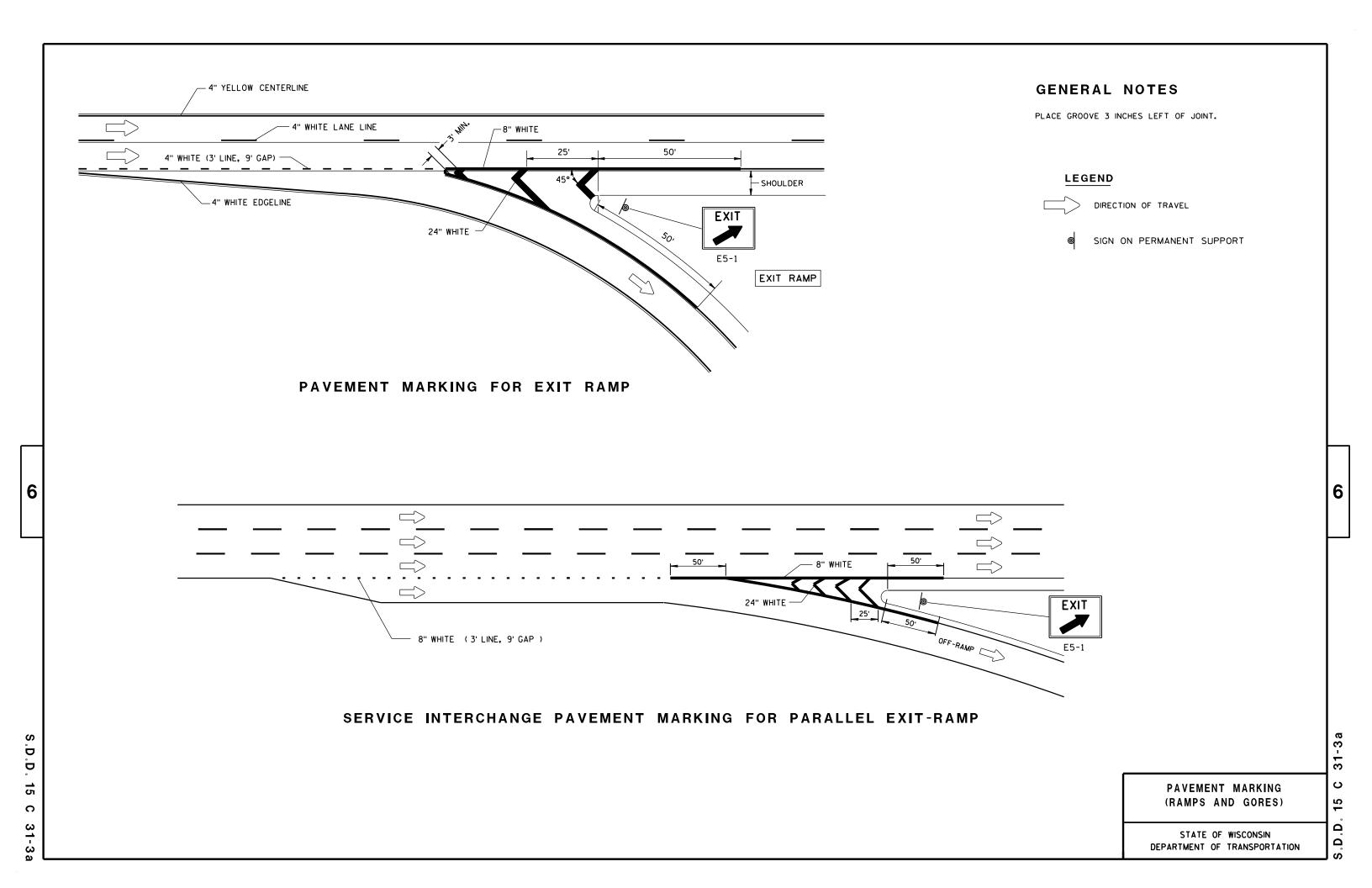
#### **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS**

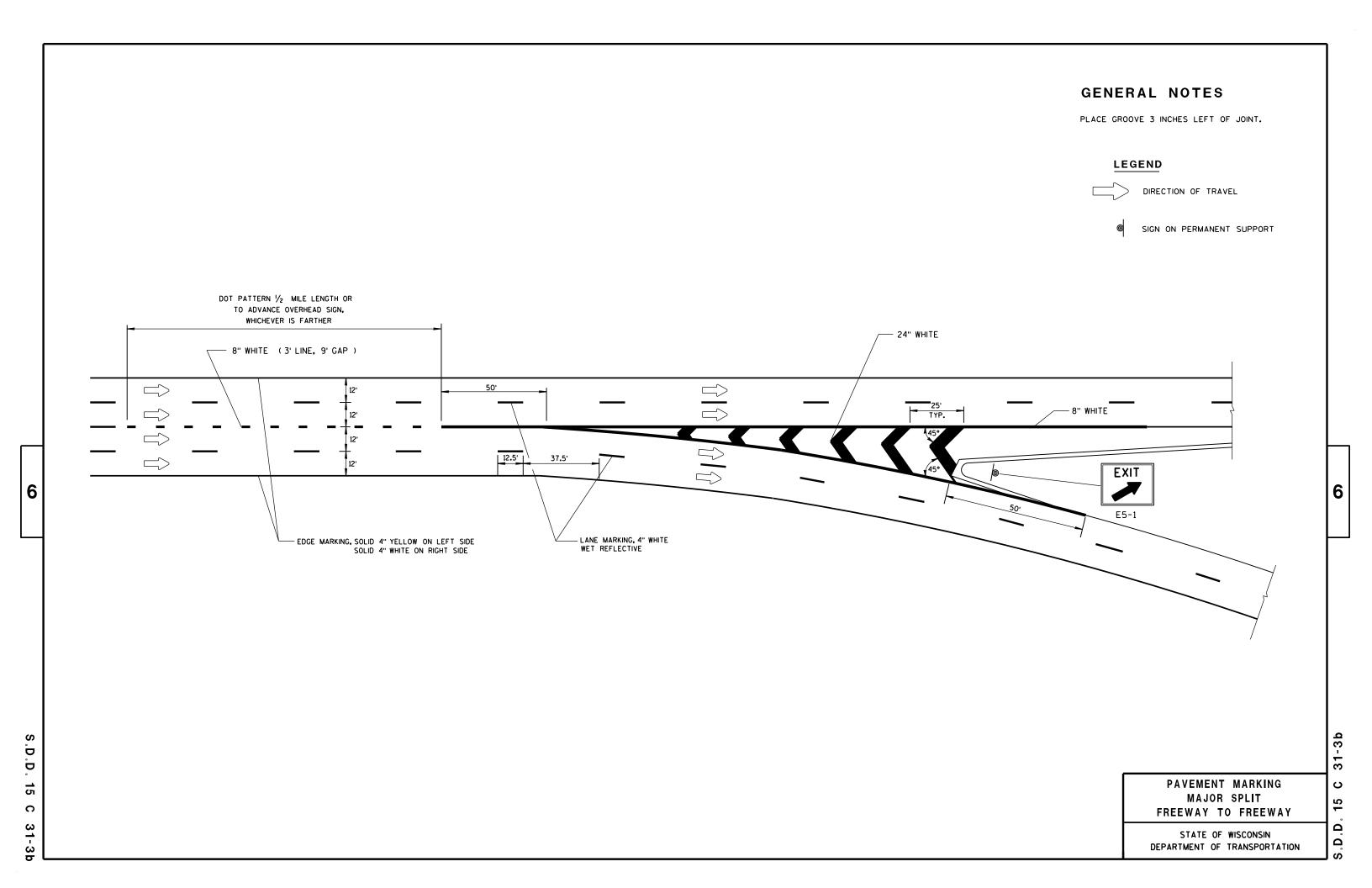
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

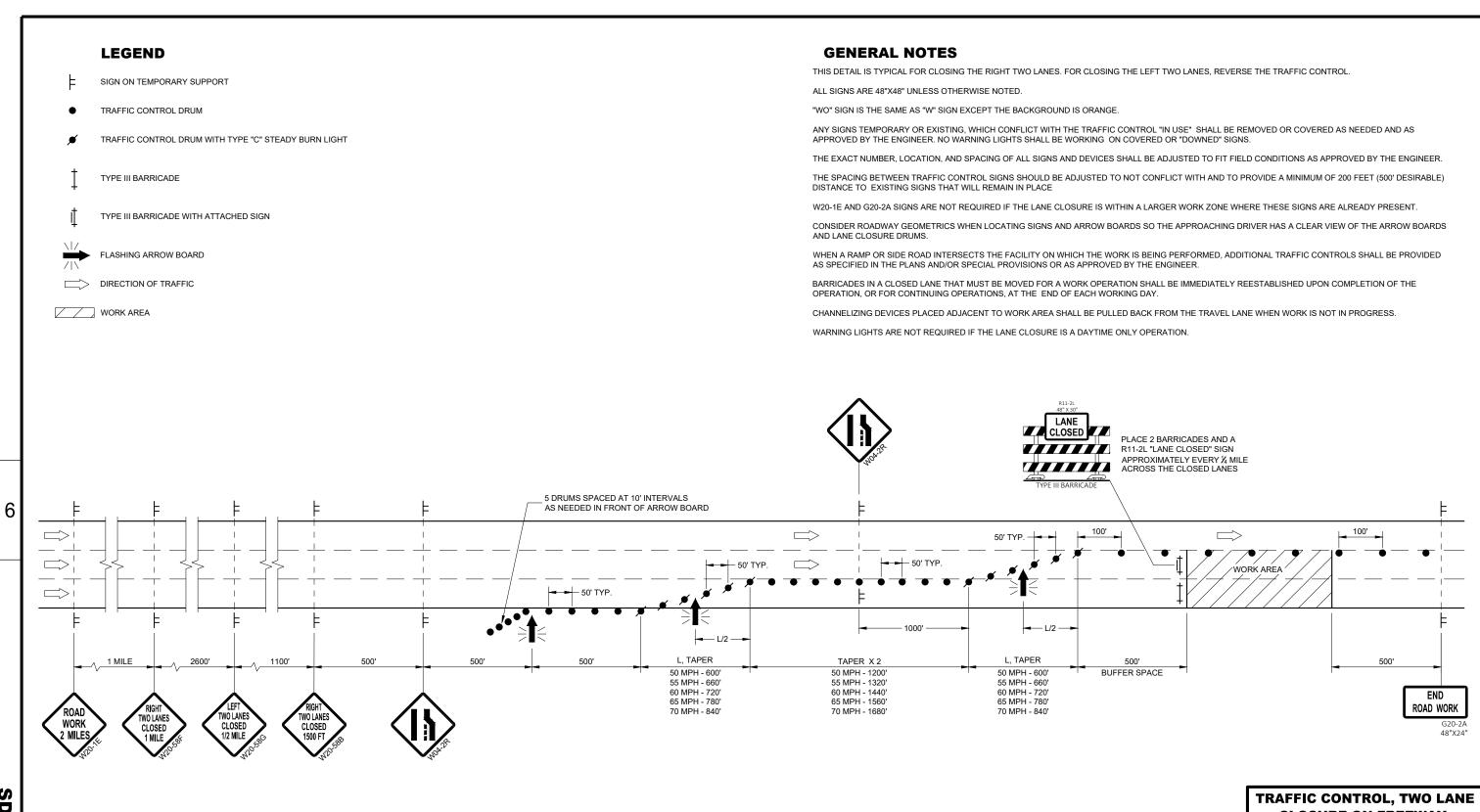
APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER

07

**SDD 15C** 







STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED July 2015 DATE

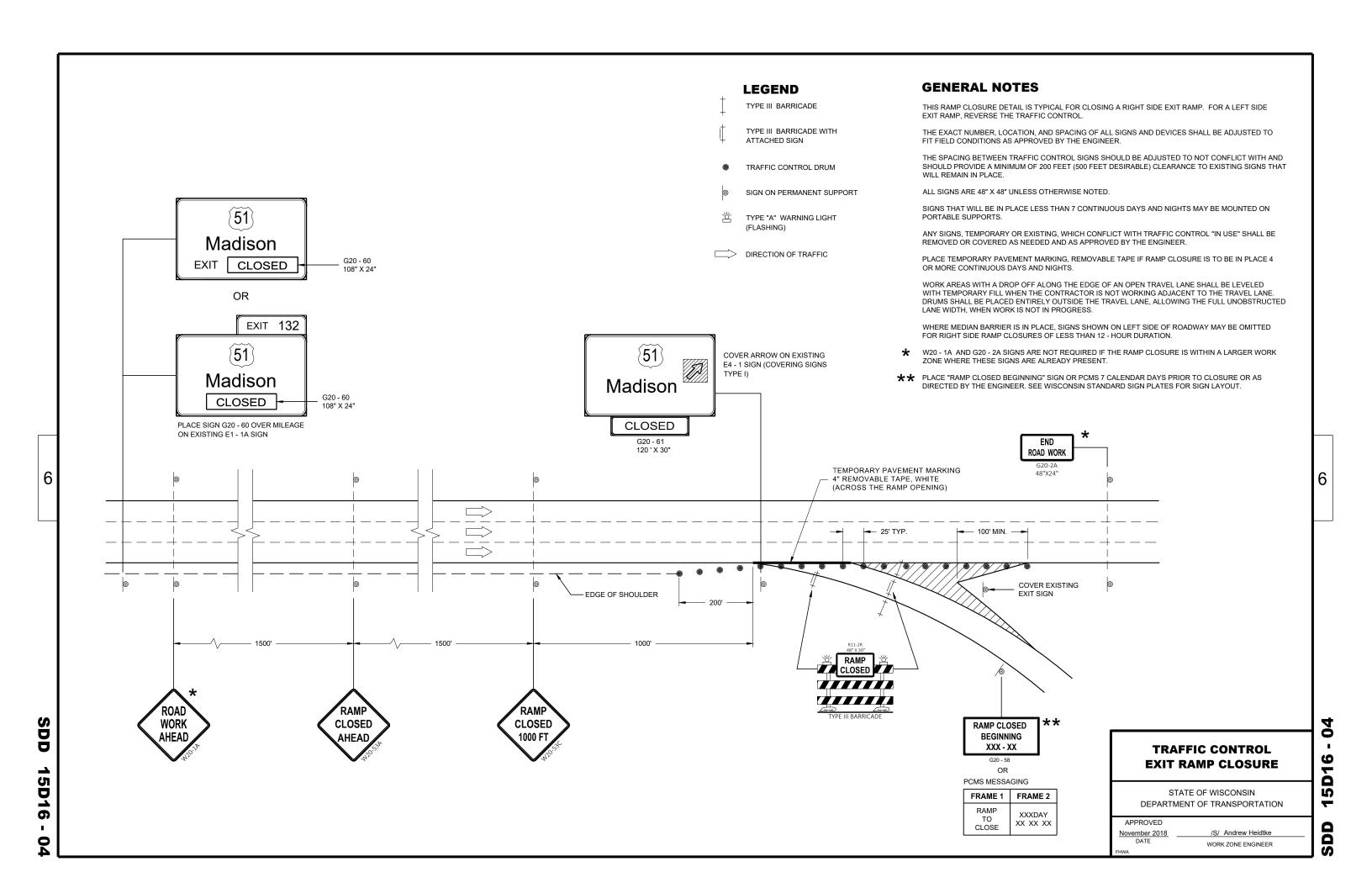
/S/ Andrew Heidtke STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

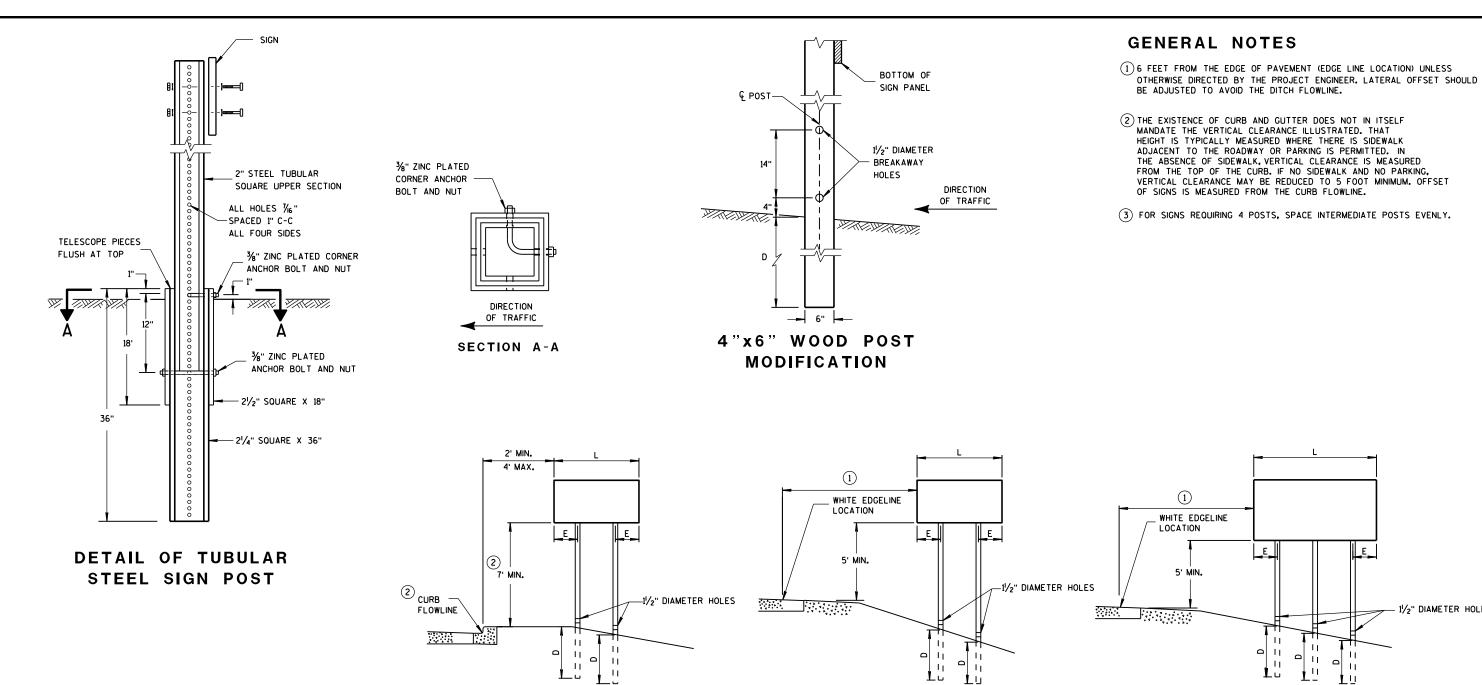
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TUBULAR STEEL POSTS

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 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	NUMBER OF WOOD POSTS			
L	E	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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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D

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D

38-2b

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 -  $\frac{9}{32}$  " (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 SO. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

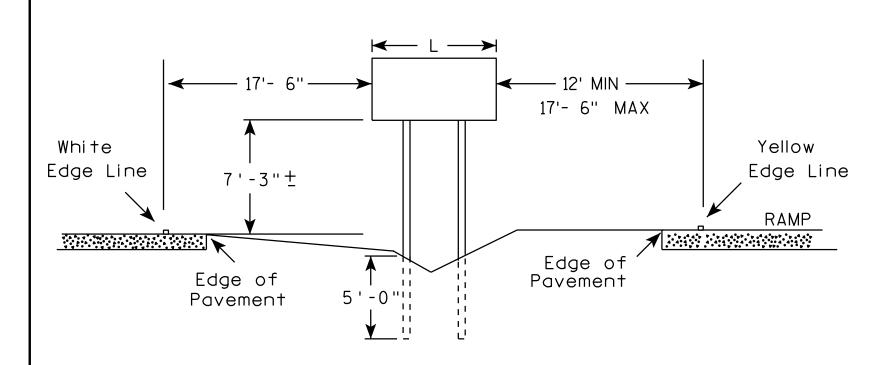
S.D.D. 15

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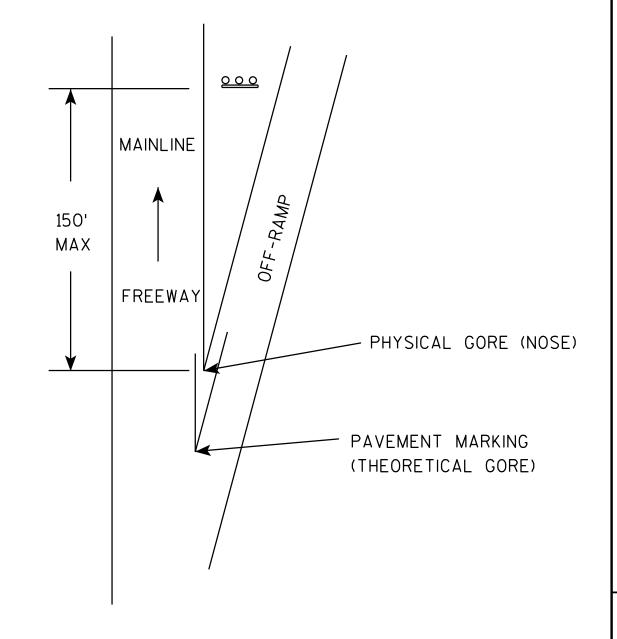
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## GENERAL NOTES

- 1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
- 2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
- 3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
- 4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
- 5. When L is equal to or exceeds 10 feet, use 3 posts as per A4-4.
- 6. The  $(\overline{+})$  tolerance for the mounting height is 3 inches.



TYPICAL INSTALLATION OF TYPE II SIGNS ON WOOD POSTS IN GORE

WISCONSIN DEPT OF TRANSPORTATION

DATE 2/06/14

SHEET NO:

PROJECT NO:

PLOT DATE: 06-FEB-2014 12:36

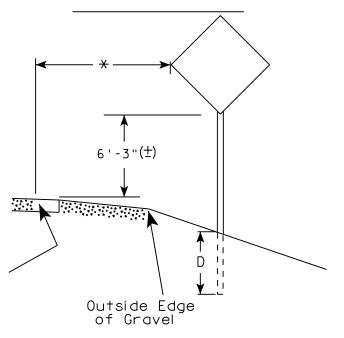
PLOT BY: mscsja

PLATE NO. 44-2.3

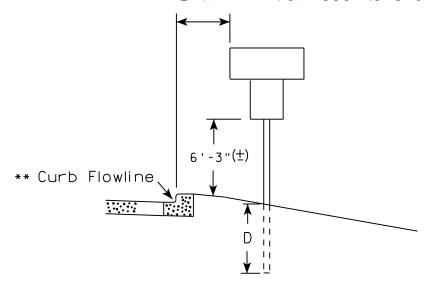
## URBAN AREA

2' Min - 4' Max (See Note 6) 7'-3"(±) \*\* Curb Flowline. White Edgeline Location

RURAL AREA (See Note 2)



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



5'-3"(生) White Edgeline D' Location Outside Edge of Gravel

POST EMBEDMENT DEPTH

GENERAL NOTES

3. For expressways and freeways, mounting height is 7'- 3" (±) or

A4-10 sign plate.

of a sub-sign.

for mounting height.

height is 3 inches.

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on

multiple posts. Refer to plate A4-4.

6'-3" (±) depending upon existence

5. Minimum mounting height for signs

6. Offset distance shall be consistent

with existing signs or consistent throughout length of project.

9. The Double Arrow sign (W12-1) shall be

7. The (+) tolerance for mounting

2. If signs are mounted on barrier wall, see

4. J-Assemblies are considered to be one sign

8. Folding signs shall be mounted at a height

of 5'-3'' ( $\pm$ ) or as directd by the Engineer.

shall be mounted at a height of 4'-3'' ( $\pm$ ).

mounted at a height of 2'-3"  $(\pm)$ . The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B),

Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56)

mounted on traffic signal poles is  $5' - 3'' (\pm)$ .

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

\*\* 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.

HWY:

\* 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.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS WISCONSIN DEPT OF TRANSPORTATION

Matthew R Rayes

DATE 8/21/17 PLATE NO. <u>A4-3.21</u>

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A43.DGN

PROJECT NO:

PLOT DATE: 21-AUG-2017 16:04

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

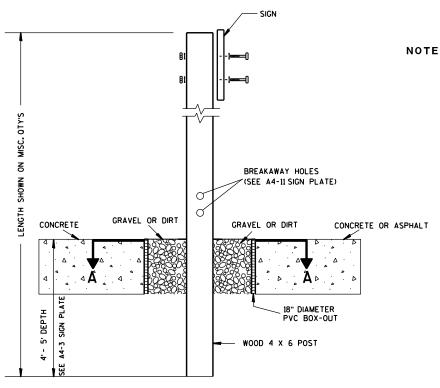
PLOT SCALE: 100.601251:1.000000

WISDOT/CADDS SHEET 42

SHEET NO:

APPROVED

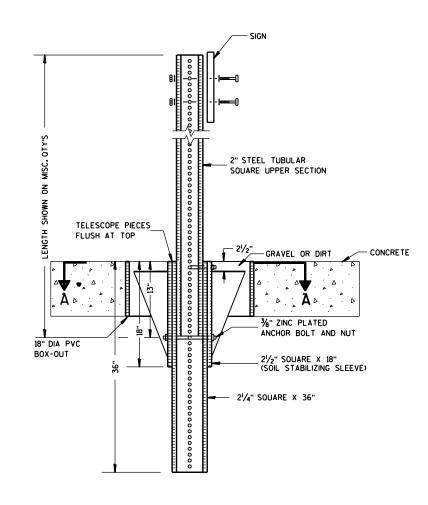
For State Traffic Engineer



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



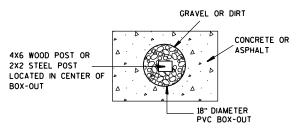
## ELEVATION VIEW

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

ELEVATION VIEW

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

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE : 13.659812:1.000000

APPROVED

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\star\star\star$  See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

## POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

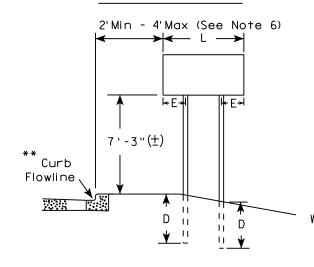
For State Traffic Engineer

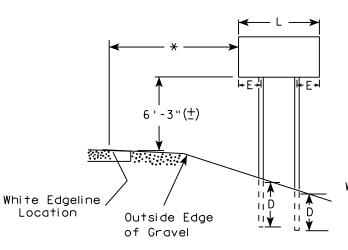
DATE 8/21/17 PLATE NO. A4-4.15

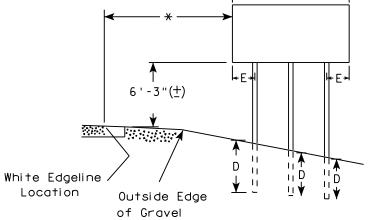
SHEET NO:

### URBAN AREA

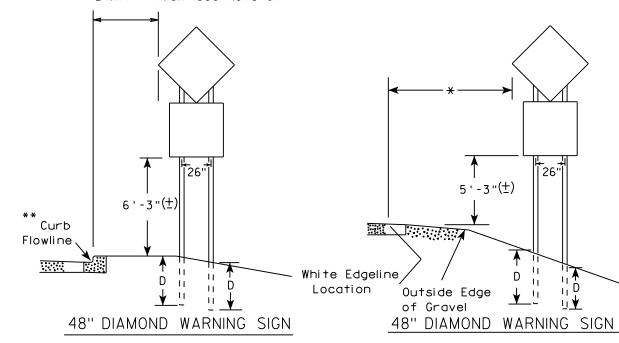
#### RURAL AREA (See Note 3)







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



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

HWY:

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

COUNTY:

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

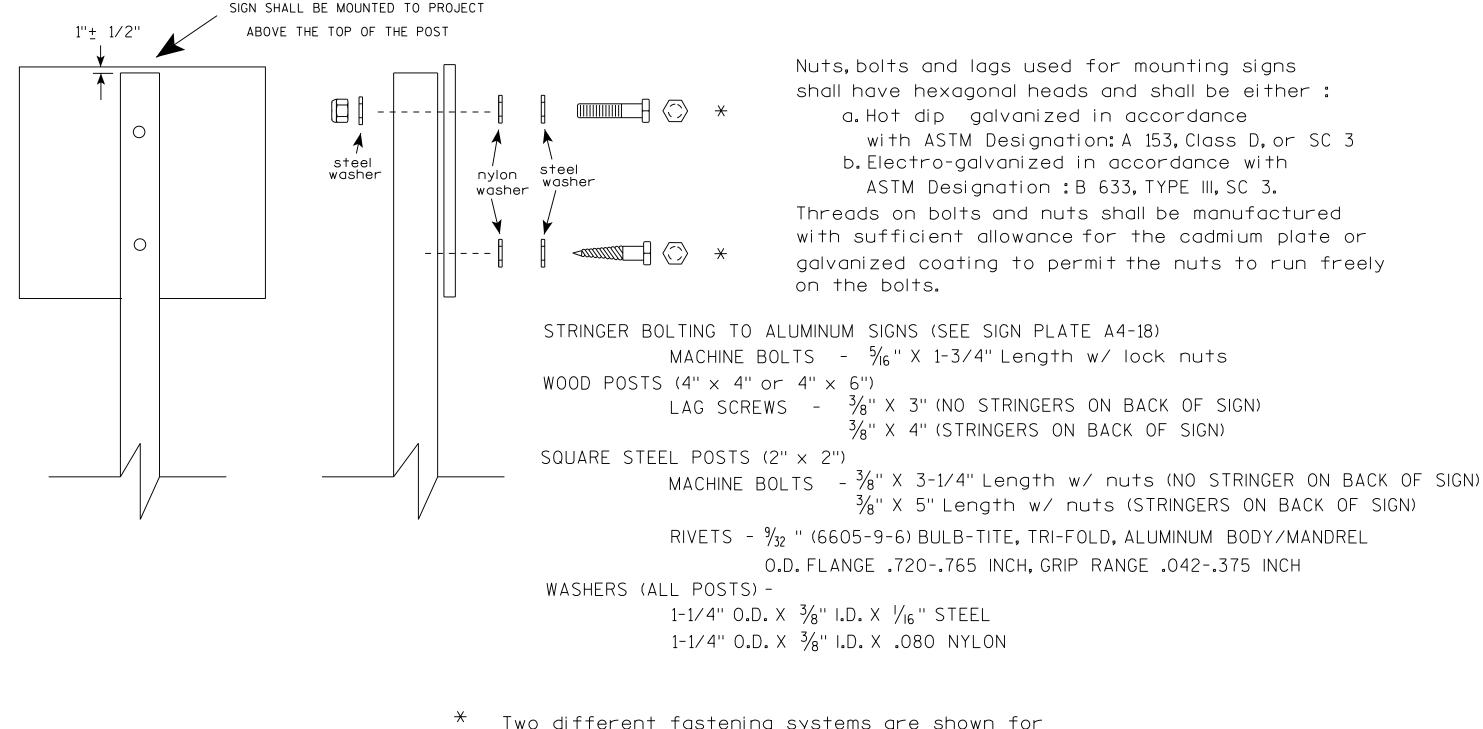
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

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

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



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:

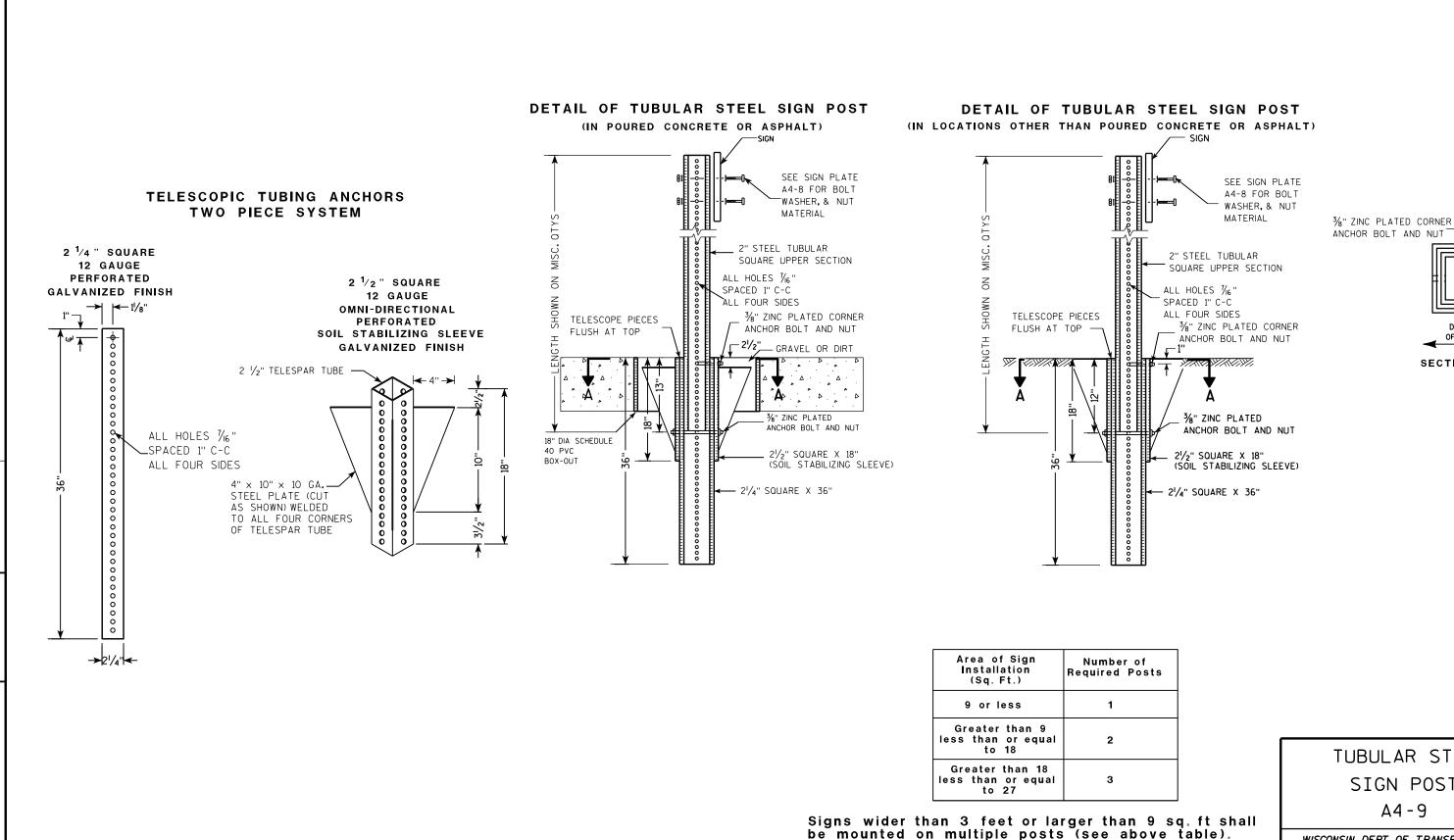
FILE NAME : C:\CAFfiles\Projects\tr strolgte\A48 DCN

PLOT DATE . 11-416-2016 11:35

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

SHEET NO:

LI NO:



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

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

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

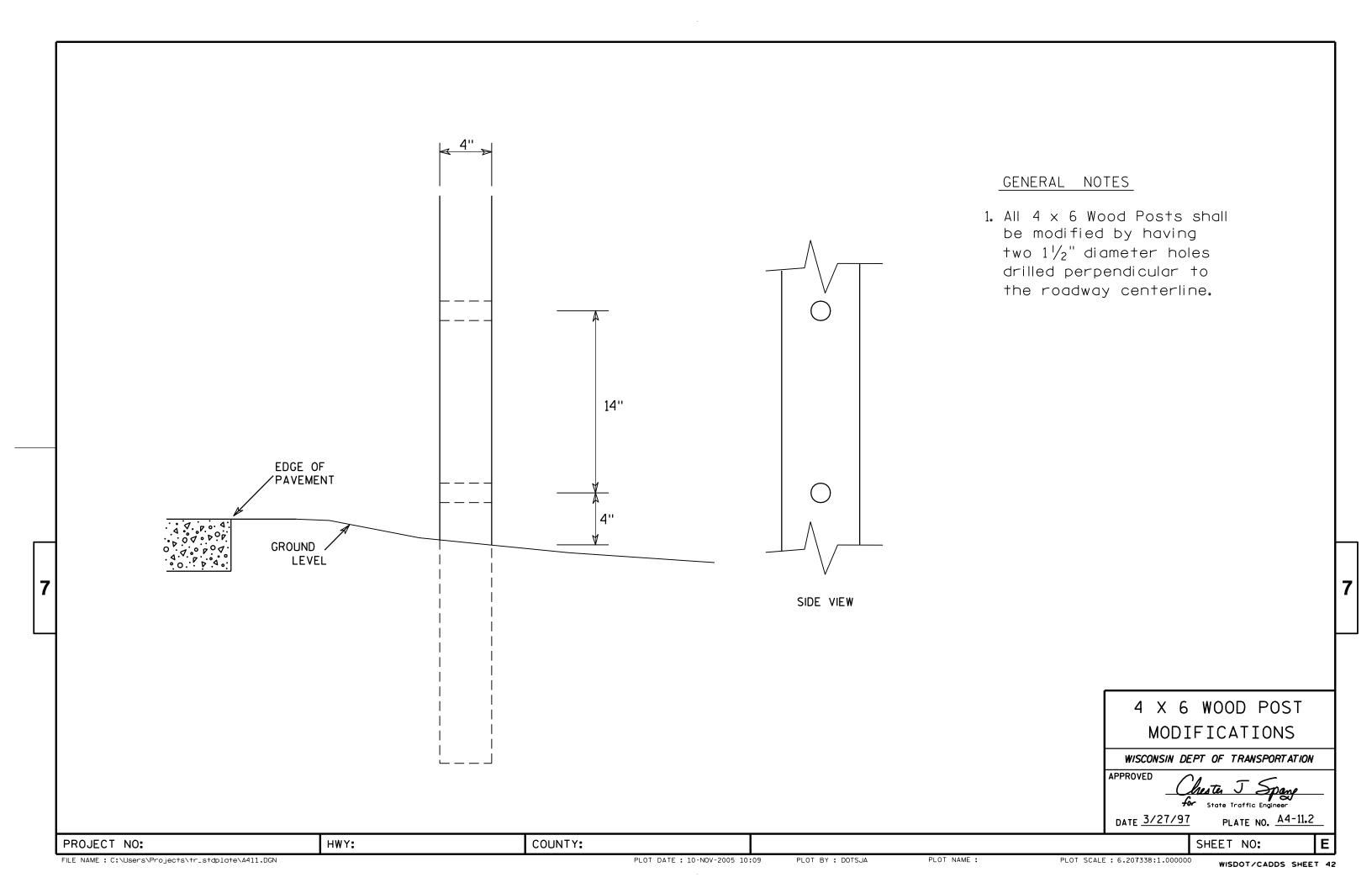
COUNTY:

PLOT NAME :

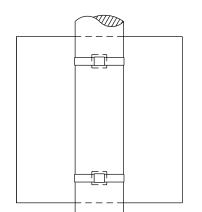
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

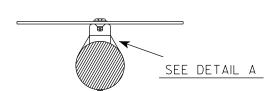
SECTION A-A

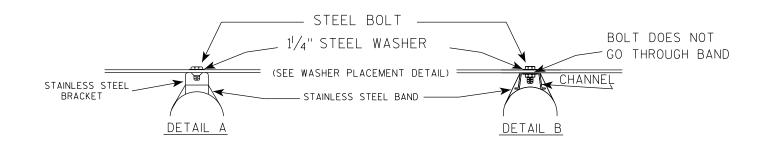


## BANDING

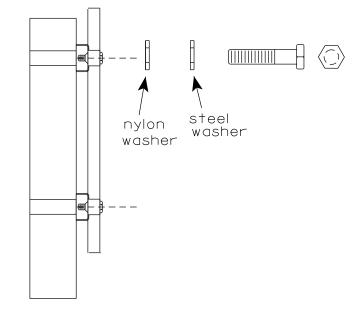


SINGLE SIGN





## WASHER PLACEMENT



HWY:

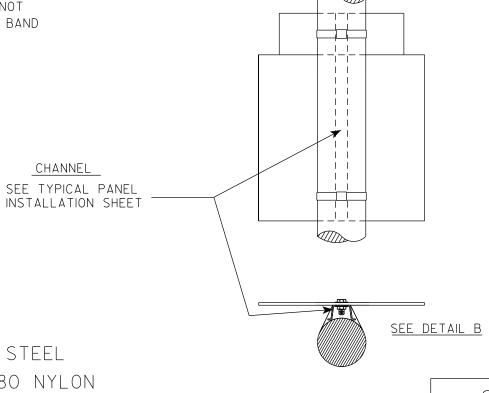
WASHERS (ALL POSTS) -

1-1/4" O.D. X<sup>3</sup>/<sub>8</sub>" I.D. X<sup>1</sup>/<sub>16</sub>" STEEL 1-1/4" O.D.  $\times \frac{3}{8}$ " I.D.  $\times$  .080 NYLON FOR ALL TYPE H SIGNS

#### GENERAL NOTES

- 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.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

#### "J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 6/10/19

SHEET NO:

State Traffic Engineer

PLATE NO. A5-9.4

Ε

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A59.dgn

PROJECT NO:

COUNTY:

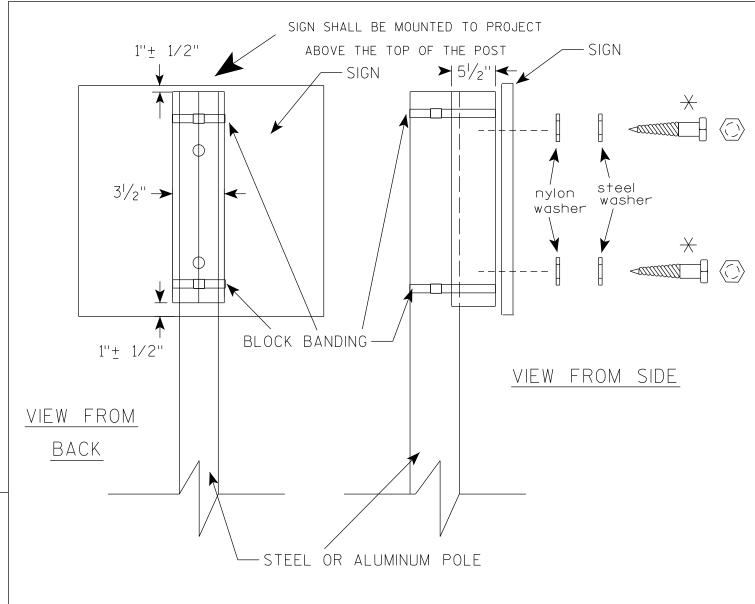
PLOT BY: mscj9h

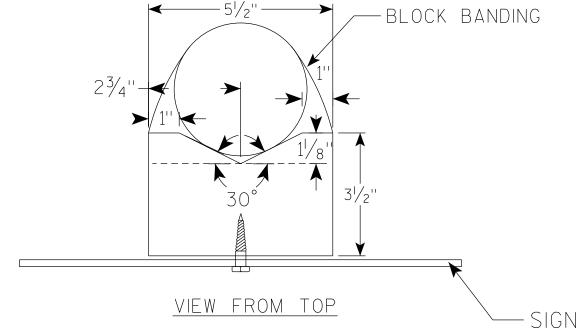
CHANNEL

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

PLOT DATE: 10-JUN 2019 4:10





## 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,  $\frac{3}{4}$ " 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
  - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE  $1\frac{1}{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 $\rightarrow$  LAG BOLTS SHALL BE  $\frac{3}{8}$ " X  $2\frac{1}{2}$ "

BLOCK BANDING DETAIL ( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

Matthew R

APPROVED

For State Traffic Engineer

SHEET NO:

DATE <u>6/10/19</u>

PLATE NO. <u>A5-10.2</u>

PROJECT NO:

PLOT DATE: 10-JUN 2019 4:15

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42

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

Background - Green Message - White

- 3. Message Series E
- 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. When Base material for this sign is plywood sign shall be split into two seperate pieces for the 72 x 60 size as shown on the detail by the dashed line (-----).
- 6. Arrow is Type "A" from sign plate A1-1.
- 7. As per the Standard Spec's, this sign shall not have a vertical joint.
- 8. Size 3 E5-1 shall only be used in a Work Zone application with a Temporary Sign Support

<b>C</b>					G F H	
				<i></i>		B   
	N N	——————————————————————————————————————	<b>&gt;</b>	P		<u> </u>

SIZE	А	В	С	D	Ε	F	G	Н	I	J	K	L	М	Ν	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																											ı
2																											
3	48	48	6		1	10	6 1/8	5 1/8	18 1/2 6	3/4 8	3 1/2	31 1/8	8 3/8	11 ½	27	9 1/2	30°	30									16.0
4	60	48	6		1	10	6 1/8	5 1/8	18 1/2 6	3/4 10	0 %	40 ¾	8 5/8	17 1/2	27	15 1/2	30°	30									20.0
5	72	60	6		1	12	9 3/4	10	18 1/2 9	3/4 13	3 1/4	48 1/2	10 1/4	23 1/2	27	21 1/2	30°	30									30.0

COUNTY:

STANDARD SIGN E5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauch

For State Traffic Engineer

DATE 7/26/18 PLATE NO. E5-1.10

SHEET NO: **E** 

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\E51.dgn

HWY:

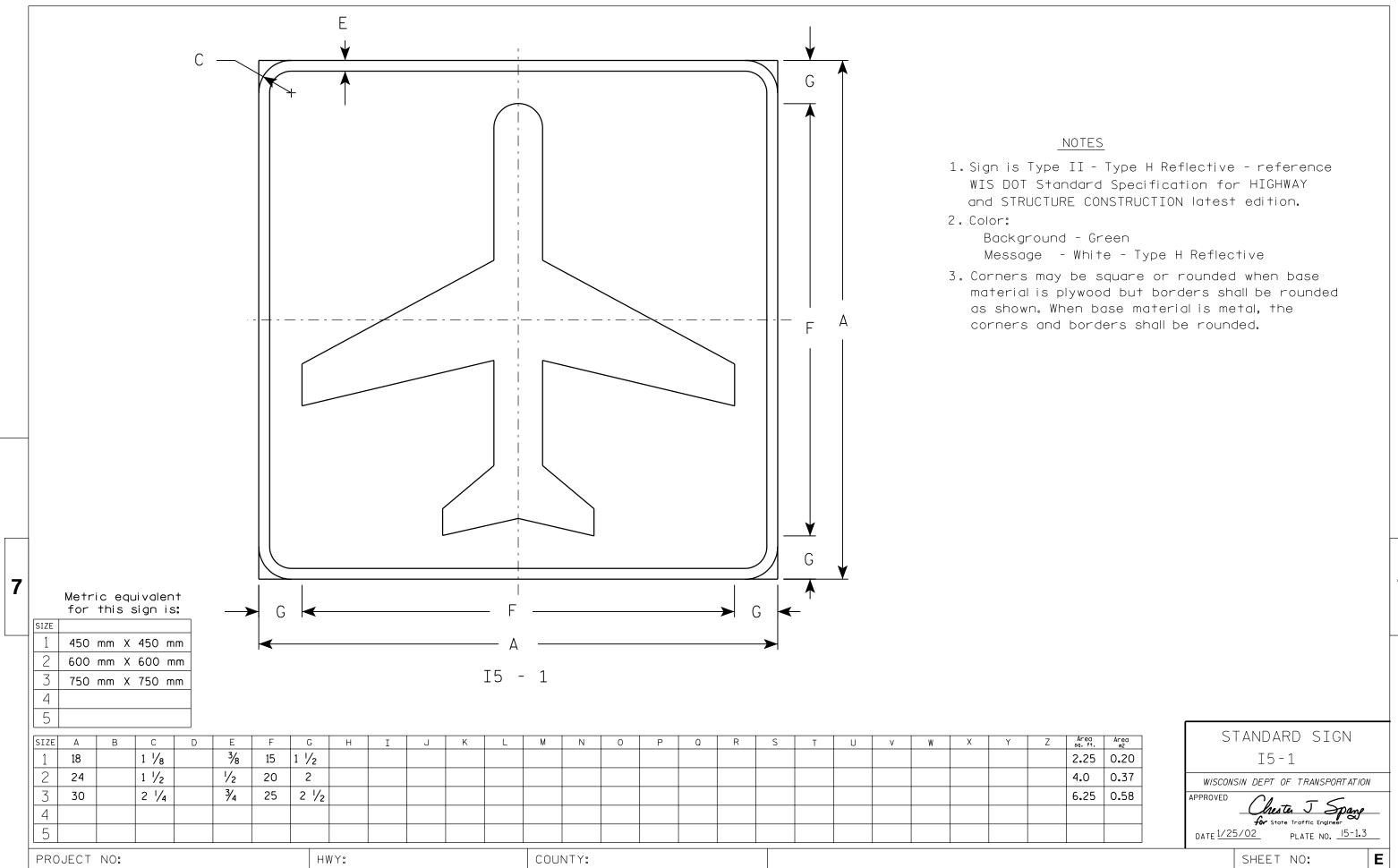
PROJECT NO:

PLOT DATE: 26-JUL-2018 12:37

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



FILE NAME : C:\Users\Projects\tr\_stdplate\I51.DGN

PLOT DATE : 13-OCT-2005 11:47 PLOT BY : DITJPH PLOT NAME : PLOT SCALE : 3.973889:1.000000 WISDOT/CADDS SHEET 42

## NOTES

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

Background - Top Red - Bottom Blue (See Note 6) Message - White - See Note 6

- 3. Message Series See note 5
- 4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
- 5. M1-1 Numerals D Interstate - C

M1-1A - All copy - C

6. Permanent Signs

Message - Type H Reflective

Detour or other temporary signs

Background - Reflective Message - Reflective

INTERSTATE

Metric equivalent for these signs are:

M1-1

HWY:

SIZE	M1 - 1	SIZE	M1-1A									
1												
2	600 mm X 600 mm	2	600 mm X 750 mm									
3	900 mm X 900 mm	3	900 mm X 1125 mm									
4	900 mm X 900 mm	4	900 mm X 1125 mm									
5	900 mm X 900 mm	5	900 mm X 1125 mm									

	900 mm x 900 mm   5   900 mm x 1125 mm															M1-1	W1-1A	M1-1	W1-1A										
SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Area sq. ft.	Area sq. ft.	Area m2	Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 ½	15	24	17	7 1/8								30			3.13	3.91	<b>.</b> 36	<b>.</b> 46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 ½	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 ½	11 ¾								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	<b>.</b> 81	1.05

COUNTY:

INTERSTATE ROUTE MARKER M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer DATE 08/23/05

SHEET NO:

FILE NAME : C:\Users\Projects\tr\_stdplate\M11.DGN

PROJECT NO:

PLOT DATE: 13-0CT-2005 14:49

M1-1A

PLOT BY : DITJPH

PLOT NAME :

PLOT SCALE: 7.947778:1.000000

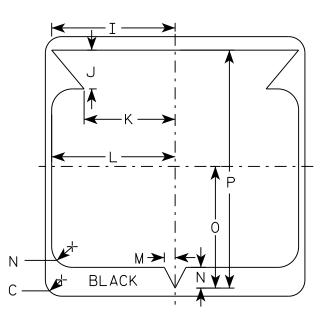
WISDOT/CADDS SHEET 42

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

Background - White Message – Black

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

	G F A H H H
<b>▲</b> M1 - 6	<b></b>



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	۵	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																										1	
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 1/8	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

₹or State Traffic Engineer PLATE NO. M1-6.10

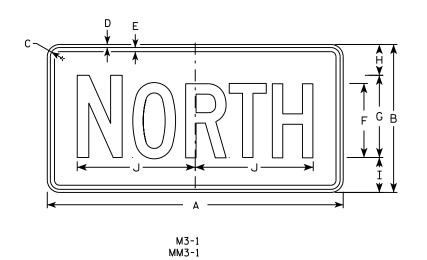
DATE 3/16/18

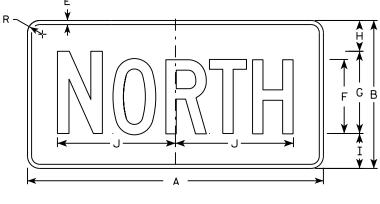
PLOT SCALE : 6.655277:1.000000

SHEET NO:

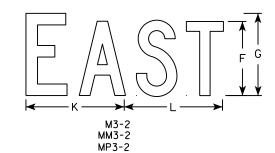
HWY:

PROJECT NO:

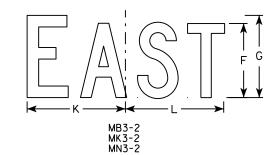


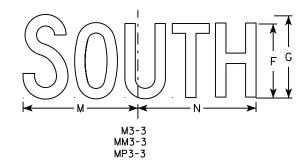


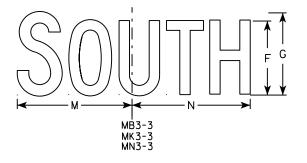
MB3-1 MK3-1 MN3-1

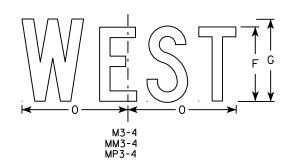


MP3-1

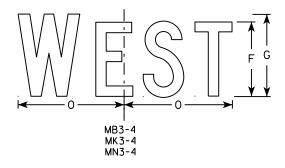








HWY:



#### NOTES

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

Background - See note 5 Message - See note 5

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

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

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

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

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	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

SHEET NO:

Ε

PROJECT NO: FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

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.

$C \xrightarrow{D} E \\ \downarrow \\ \downarrow \\ \uparrow$	<b>★</b> G	
	F - * G *	         

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

COUNTY:

STANDARD SIGN M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

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

SHEET NO:

PLOT DATE: 10-NOV-2010 13:18

PLOT NAME :

PLOT BY : ditjph

PLOT SCALE: 4.767233:1.000000

WISDOT/CADDS SHEET 42

PROJECT NO:

HWY:

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

2. Color:

Background - Orange Message - Black

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

 $D \longrightarrow$ Н M4-8A

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

COUNTY:

STANDARD SIGN M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\M48A.DGN

HWY:

PROJECT NO:

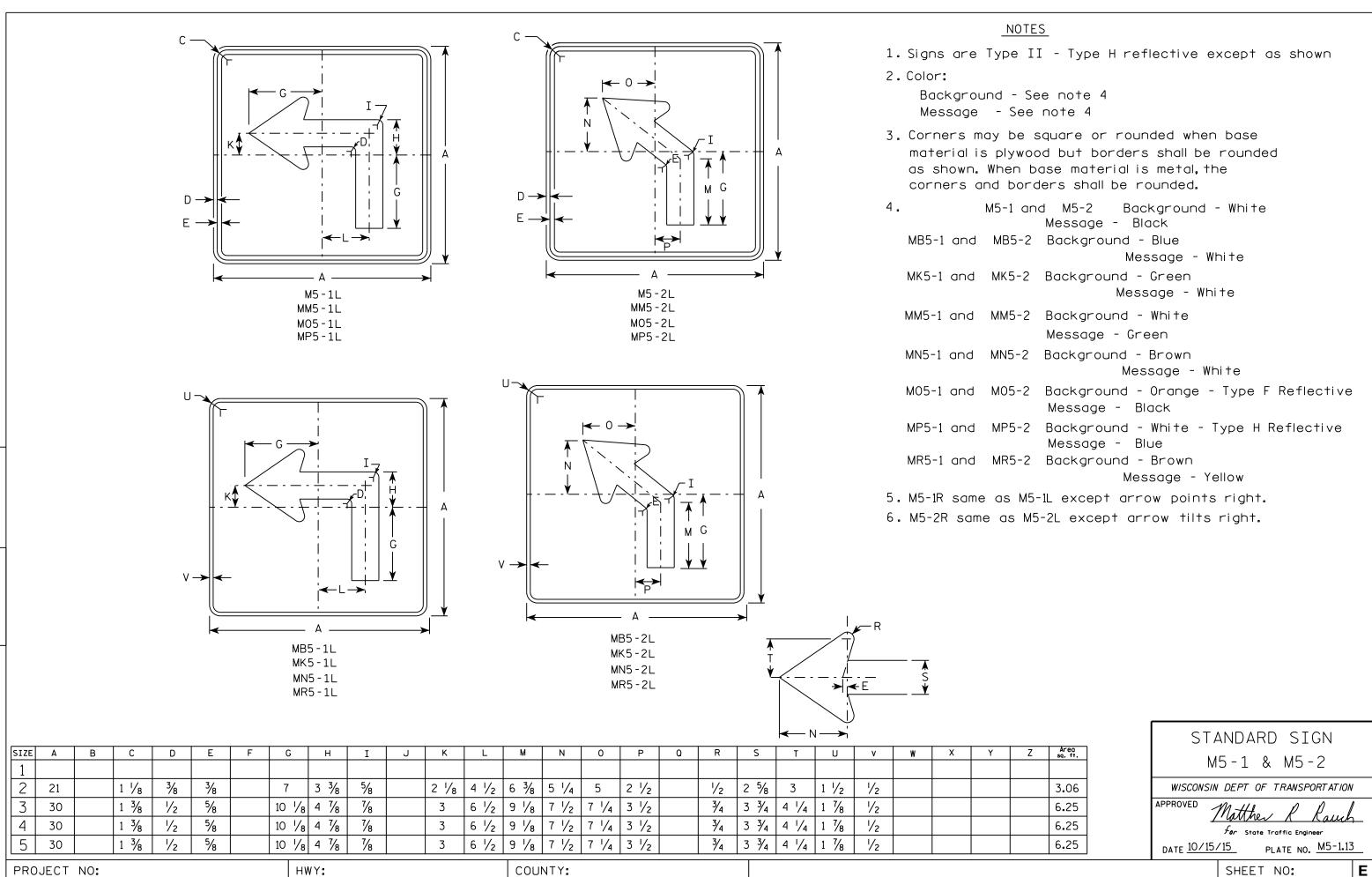
PLOT DATE: 09-MAR-2011 10:29

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 3.972696:1.000000

WISDOT/CADDS SHEET 42



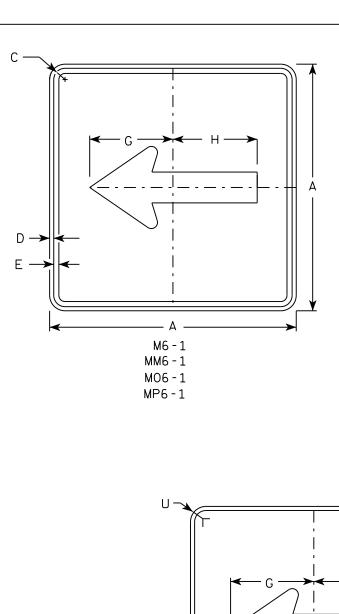
FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

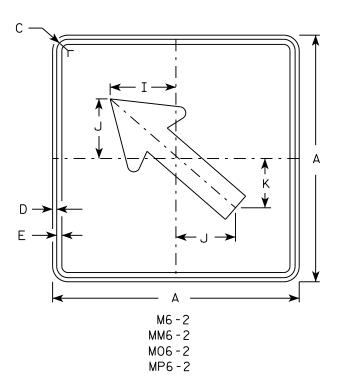
PLOT DATE . 01-DEC-2015 18:07

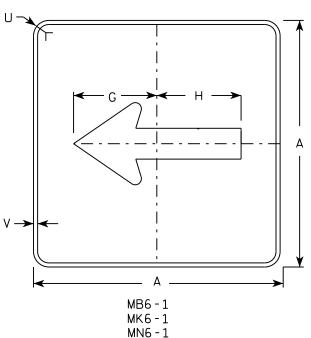
PINT RY . \$\$ DIOTUSET \$\$ PINT NAMF :

PLOT SCALE . 11 675051.1 000000

311LL 1 110.

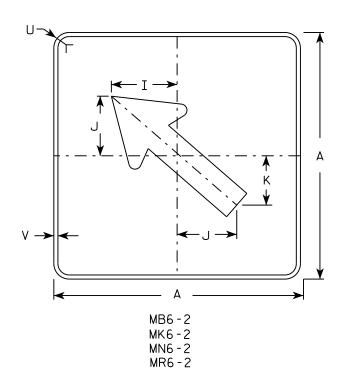






MR6-1

HWY:



#### NOTES

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

Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-1 and M6-2 Background White

Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

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

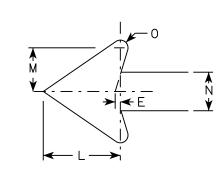
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



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

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 10/15/15

PLATE NO. M6-1.15 Ε

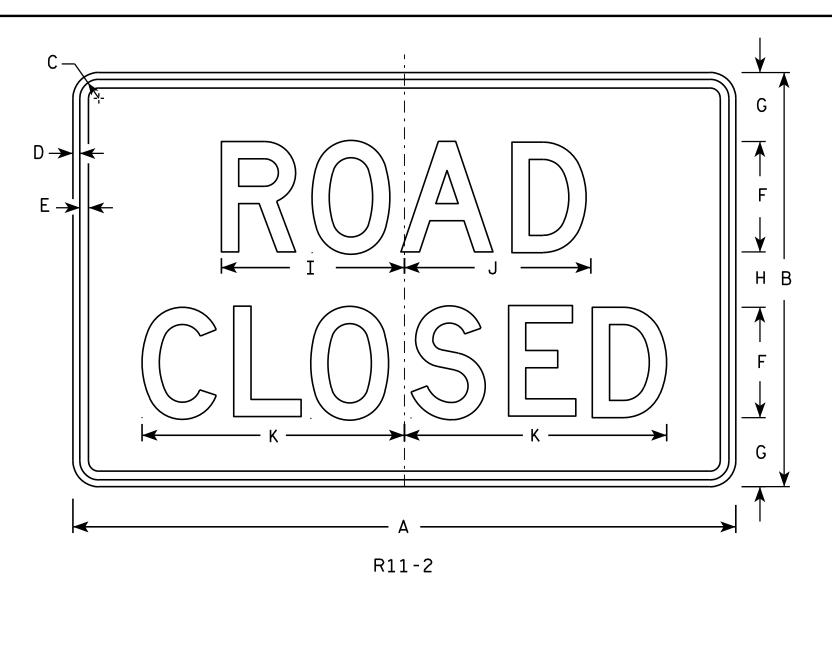
FILE NAME . C.\CAFfiles\Projects\tr stdblote\M61 DGN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:57

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

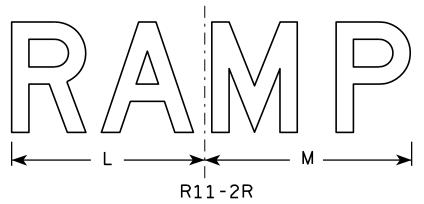
PLOT SCALE . 11 675051.1 000000

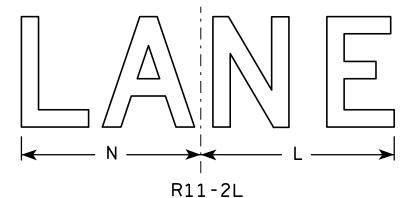


- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

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. Modify the message as required.





PLOT NAME :

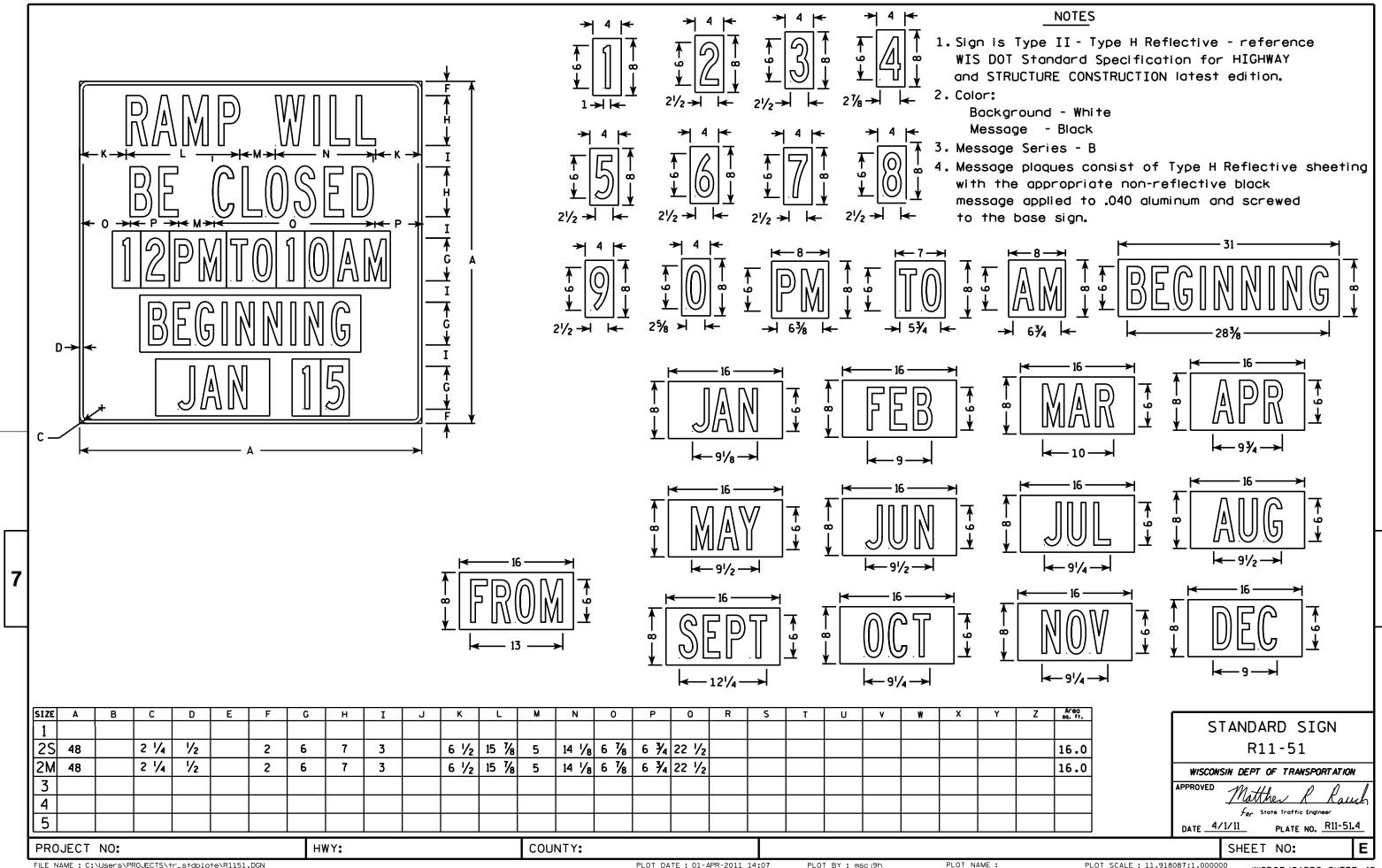
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
PRO	JECT	NO:						HWY:					С	OUNT	<b>':</b>												

STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

Matthew & Raux DATE 4/1/11 PLATE NO. R11-2.10

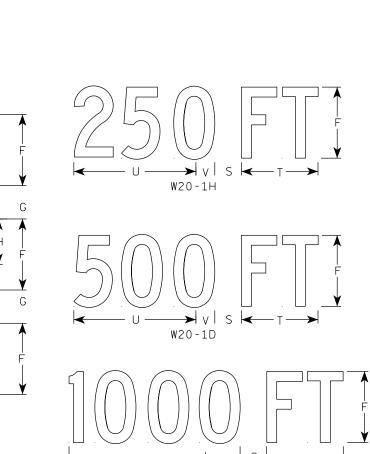
SHEET NO:



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

Background - Orange 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.



W20-1C

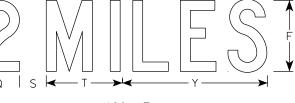




W20-1G

W20-1F





W20-1E

W20-1B	

SIZE	Α	В	С		ΙE	F	G	Н	Т	J	Ικ	L	М	N	0	Р	0	R	S	Т	l u	V	l w	X	Υ	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 1/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
25	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer
PLATE NO. W20-1.11

DATE <u>9/25/19</u>

SHEET NO:

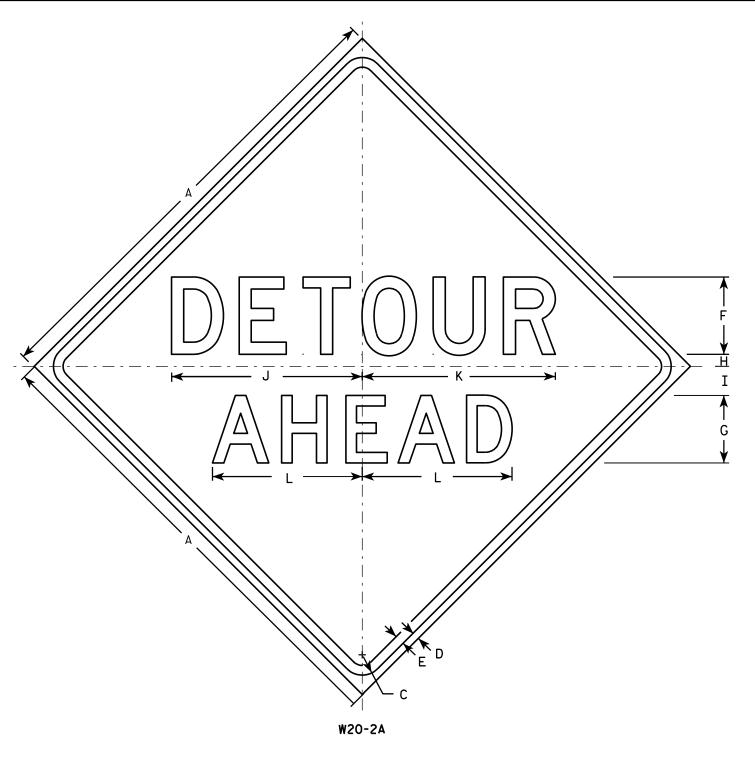
PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W201.DGN W20-1A

PLOT DATE: 25-SEPT-2019

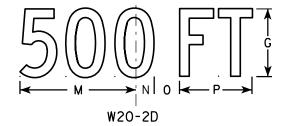
PLOT BY : dotc4c

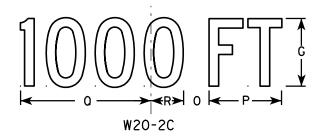
WISDOT/CADDS SHEET 42

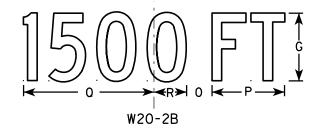
Ε

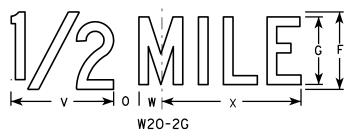


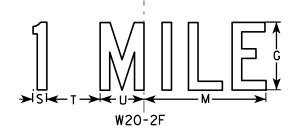
HWY:











## <u>NOTES</u>

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

Background - Orange Message - Black

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

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

COUNTY:

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

WISCONSIN DEPT OF TRANSPORTATION

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

SHEET NO:

PROJECT NO:

PLOT NAME :

- 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 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. " \_\_\_\_\_ LANE" is Series B. All other copy is Series C.

W20-5D

W20-5B

W20-5G

PLOT BY: mscj9h

W20-5F

			W20-5A  C D E F G H I J K L M N O P O R  1 \(^18\) \(^18\) \(^38\) \(^34\) \(^18\) \(^																						11 2	20 31	
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	<b>7/8</b>	2 1/2	13 1/8	10 ¾	9 1/2	14 1/4	13 %	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 %	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
2M	48	8	2 1/4	₹4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 %	2 3/8	10 %	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 5/8	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
5	48	8	2 1/4	₹4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0

COUNTY:

STANDARD SIGN W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Kauch For State Traffic Engineer DATE 3/18/11 PLATE NO. W20-5.11

SHEET NO:

PROJECT NO:

HWY:

W20-56A

W20-55A

W20-53F

#### NOTES

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

Background - Orange Message - Black

- 3. Message Series 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. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	M	N	0	Р	0	R	S	Т	U V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 ½	1 1/8	4	9 1/4	9 1/4	12 1/2	11	9	6	10 1/8	2 1/2	1 %	5 %	8 1 3/8	4 1/2	3 1/2	10 ¾	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 % 1 %	6	4 %	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 % 1 %	6	4 %	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 % 1 %	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 % 1 %	6	4 %	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 5/8	12	8	13 1/2	3 %	2 5/8	7 1/2	10 % 1 %	6	4 5/8	14 3/8	2 3/8	16.0

COUNTY:

W20-53A

HWY:

STANDARD SIGN W20-53A,B,C,D,F,G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED DATE 5/27/15 PLATE NO. W20 PLATE NO. W20-53.1

SHEET NO:

PLOT BY: mscj9h

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W2053.DGN

PROJECT NO:

PLOT DATE: 27-MAY-2015 19:40

PLOT NAME :

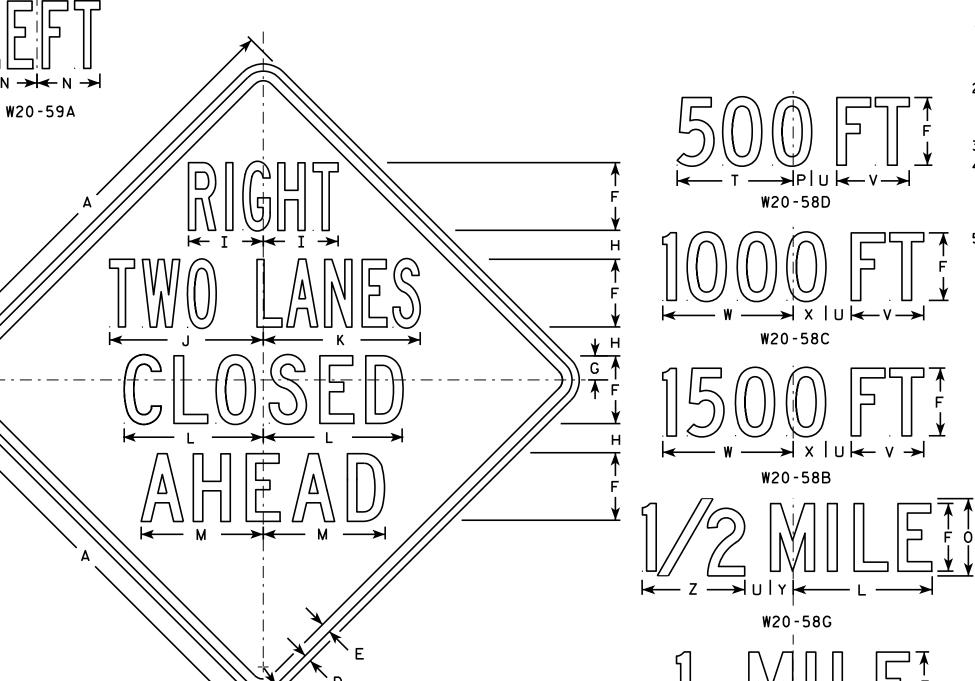
PLOT SCALE: 9.729210:1.000000



- 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 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. Lines 1 & 2 Series B. Lines 3 & 4 Series C.



SIZE A 1 % 5/8 3/4 6 1 3/8 1 3/4 36 1 1/8 2 1/4 5 1/8 1 1 1/8 | 12 1/8 | 10 3/4 | 9 1/2 | 4 1/8 1 1/8 4 1/2 3 1/2 1 \% | 5 \% | 10 \\/8 | 2 \\/2 8 1 1/8 4 % 48 2 1/4 3/4 2 1/2 3 | 7 3/4 | 15 1/8 | 16 1/4 | 14 3/8 | 12 5/8 | 6 1/2 | 1 1/2 | 6 2 \% | 7 \\\2 | 13 \\\2 | 3 \\8 | 2 \\8 | 10 \\8 | 16.0 2M 4 5/8 2 1/4 3/4 2 1/2 15 \( \frac{7}{8} \) 16 \( \frac{1}{4} \) 14 \( \frac{3}{8} \) 12 \( \frac{5}{8} \) 6 \( \frac{1}{2} \) 1 % 1 1/2 2 \% | 7 \/2 | 13 \/2 | 3 \% | 2 \% | 10 \% | 16.0 48 3 1 1/8 4 % 2 \\ 7 \\ 2 | 13 \\ 2 | 3 \\ 8 3/4 48 2 1/4 2 1/2 7 3/4 | 15 1/8 | 16 1/4 | 14 3/8 | 12 5/8 | 6 1/2 1 1/2 | 6 1 4 % 4 2 1/4 ₹4 7 3/4 15 1/8 16 1/4 14 3/8 12 5/8 6 1/2 1 % 1 1/2 2 \\ 7 \\ 2 | 13 \\ 2 | 3 \\ 8 48 5 2 1/2 7 3/4 15 1/8 16 1/4 14 3/8 12 5/8 6 1/2 1 % 1 1/2 2 \% | 7 \\/2 | 13 \\/2 | 3 \\% | 2 \\% | 10 \\% | 16.0 48 2 1/4 3

COUNTY:

W20-58A

HWY:

STANDARD SIGN W20-58A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 3/18/11

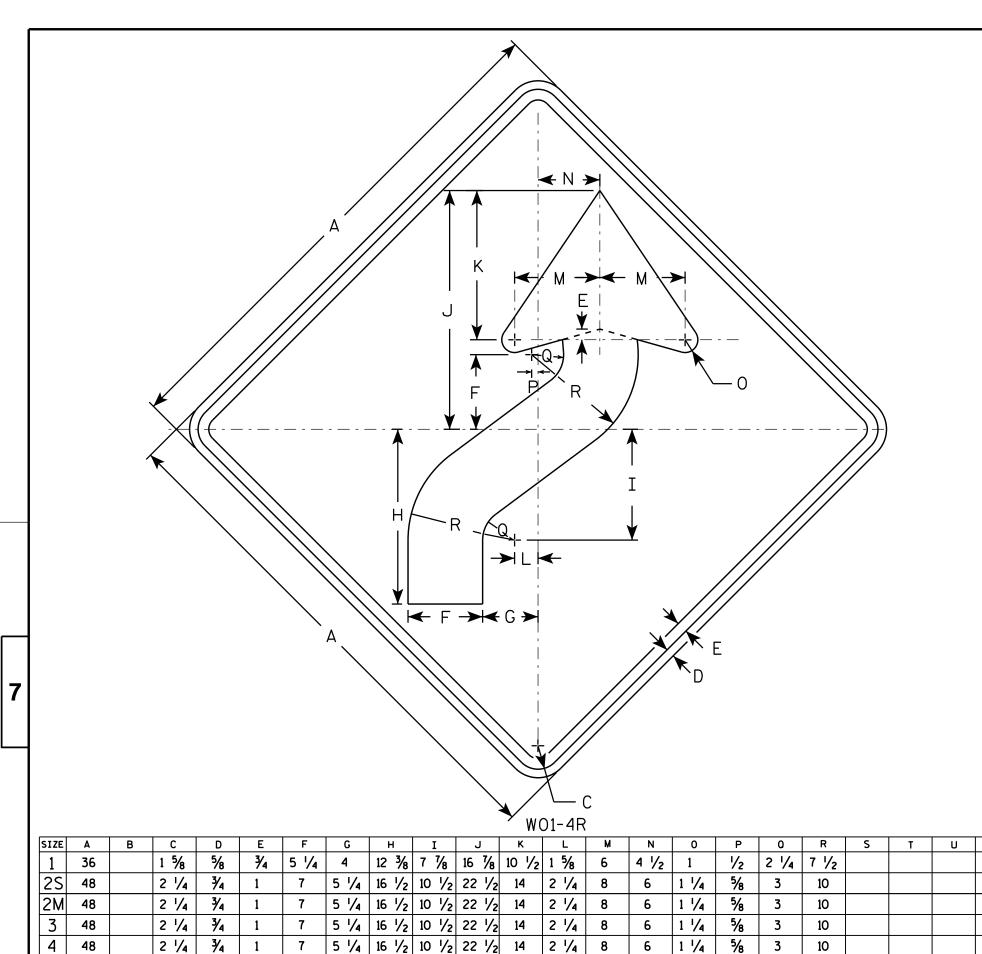
PLATE NO. W20-58.4

SHEET NO:

PROJECT NO:

W20-58F

PLOT BY: mscj9h



5 1/4 16 1/2 10 1/2 22 1/2 14

HWY:

2 1/4

## NOTES

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

Background - Orange Message - Black

- 3. 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. WO1-4L is the same as WO1-4R except the arrow is reversed along the vertical centerline.

Area sq. ft.

9.0

16.0

16.0

16.0

16.0

16.0

STANDARD SIGN WO1-4 WISCONSIN DEPT OF TRANSPORTATION **APPROVED** for State Traffic Engineer

DATE <u>11/18/1</u>3

PLATE NO. WO1-4.1 SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W014.DGN

2 1/4 | 3/4

48

48

PROJECT NO:

PLOT DATE: 28-FEB-2014 11:35

1 1/4

COUNTY:

10

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 6.755110:1.000000

- 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. 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. WO4-2L is the same as WO4-2R except the symbolis reversed along the vertical centerline.

A   C
W04-2R

SIZE A R С 0 S 1 % 5/8 3/4 45° 1 3/4 1 1/2 12 4 5 36 3 9.0 2S 2 1/4 5 3/8 45° 1 ¼ 2 ¾ 6 ¾ 3/4 48 16.0 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 1/4 2 16.0 5 3/8 3 48 2 1/4 3/4 45° | 1 1/4 | 2 3/8 | 6 3/4 2 16.0 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 4 48 2 16.0 5 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 16.0

STANDARD SIGN W04 - 2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R R

ForState Traffic Engineer

DATE 11/20/13 PLATE NO. <u>WO4-2.1</u>

SHEET NO:

PLOT DATE: 20-NOV-2013 11:43

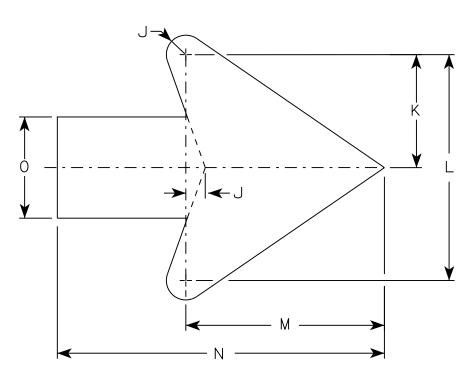
PLOT BY: mscsja

PROJECT NO:

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

Background - Orange 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.



<u>Arrow Detail</u>

SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	М	N	0	Р	a	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 %	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 1/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 ½	10 1/8	9 %	15 ¾	4 3/4												9.0
5	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 ½	10 1/8	9 %	15 ¾	4 3/4												9.0

COUNTY:

WO12-1D

STANDARD SIGN W012-1D

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

Matther R Rauch
For State Traffic Engineer

FILE NAME · C·\CAFfiles\Projects\tr stdplate\W0121D DCN

PROJECT NO:

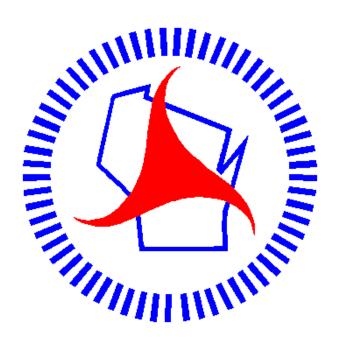
HWY:

PLOT DATE . 11-41G-2016 11.28

PINT RY . \$\$ plotuser \$\$ PINT NAMF :

PLOT SCALE • 4 621375•1 000000

Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov