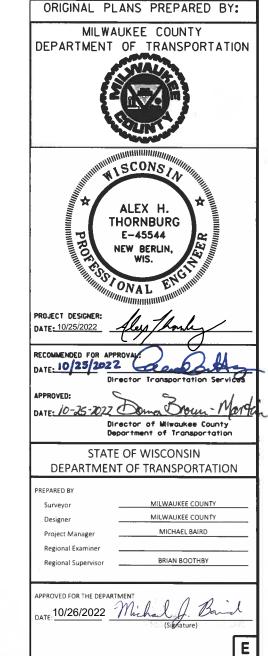
APRIL 2023 WKE **STATE OF WISCONSIN** ORDER OF SHEETS PROJECT DEPARTMENT OF TRANSPORTATION Typical Sections and Details Miscellaneous Quantities Section No. ë PLAN OF PROPOSED IMPROVEMENT Section No. Right of Way Plat Section No. Standard Detail Drawings 2984-07-76 C MILWAUKEE GOOD HOPE ROAD Section No. Sign Plates 99TH ST TO 60TH ST CTH PP TOTAL SHEETS = 150 **MILWAUKEE COUNTY** STATE PROJECT NUMBER 2984-07-76 **BROWN** DEER BRADLEY **DESIGN DESIGNATION BEGIN PROJECT** A.A.D.T. 2019 = 26.200 - 35.200 STA 9+50 A.A.D.T. = N/A X=2492752.9584 D.H.V. = N/A Y=424752.6087 D.D. = N/A DESIGN SPEED = 40.45 M.P.H. GOOD HOPE RD = N/A 145 MILWAUKE **CONVENTIONAL SYMBOLS** RD MILL **PROFILE** PLAN GRADE LINE CORPORATE LIMITS **ORIGINAL GROUND** PROPERTY LINE MARSH OR ROCK PROFILE LOTLINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH **EXISTING RIGHT OF WAY** SILVER GRADE ELEVATION SPRING PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT UTILITIES REFERENCE LINE ELECTRIC **EXISTING CULVERT** FIBER OPTIC PROPOSED CULVERT (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS LAYOUT STORM SEWER HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN STATE PLANE COORDINATES, SOUTH ZONE, NAD27, IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID SCALE MARSH AREA DISTANCES MAY BE USED AS GROUND DISTANCES. UTILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = N/A POWER POLE ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NGVD29. WOODED OR SHRUB AREA TELEPHONE POLE

FEDERAL PROJECT STATE PROJECT CONTRACT PROJECT WISC 2023313 2984-07-76





END PROJECT

STA 143+15

GENERAL NOTES

REMOVALS

- DO NOT REMOVE TREES OR SHRUBS WITHOUT THE CONSENT OF THE ENGINEER.

- THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UTILITIES AND TO NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES.

EROSION CONTROL

- EROSION CONTROL ITEMS SHOWN ARE AT SUGGESTED LOCATIONS AND THE EXACT LOCATIONS/DIMENSIONS WILL BE DETERMINED BY THE ENGINEER. MAINTAIN ALL EROSION CONTROL MEASURES UNTIL SUCH TIME THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.
- TOPSOIL, SEED, FERTILIZE AND WATER OR SOD AND WATER DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS AS DIRECTED BY THE ENGINEER.

SIGNING/MARKING

- DO NOT REMOVE SIGNS WITHOUT THE CONSENT OF THE ENGINEER.

MISCELLANEOUS

- ADJUST TRAFFIC CONTROL DEVICES TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES WITHIN THE PROJECT LIMITS AT ALL TIMES.
- DETAILS OF CONSTRUCTION NOT SHOWN IN THE PLANS SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.
- CONTACT THE PROJECT ENGINEER AND THE SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION (SEWRPC), AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

LIST OF STANDARD ABBREVIATIONS

ABUT ABUTMENT AEW APRON ENDWALL AGG AGGREGATE AΗ

AHEAD

ASPH ASPHALT OR ASPHALTIC BAD **BASE AGGREGATE DENSE**

BK BACK

BM BENCHMARK

CABC CRUSHED AGGREGATE BASE COURSE

CB **CATCH BASIN** CL or C/L CENTER LINE CONC CONCRETE

CTH **COUNTY TRUNK HIGHWAY**

C&G **CURB AND GUTTER**

DWY **DRIVEWAY** EL or ELEV **ELEVATION**

EBS **EXCAVATION BELOW SUBGRADE**

HMA **HOT MIX ASPHALT**

INL INLET INV **INVERT** LT LEFT МН **MANHOLE**

MIS METROPOLITAN INTERCEPTOR SEWER

PAVT **PAVEMENT**

PLF PERMANENT LIMITED EASEMENT

PT POINT OF TANGENT

PCC POINT OF COMPOUND CURVATURE

RL or R/L REFERENCE LINE

RADIUS RAB **ROUNDABOUT** REOD **REQUIRED** RT RIGHT

R/W **RIGHT-OF-WAY** SE **SUPERELEVATION**

SEC SECTION

SDD STANDARD DETAIL DRAWING STH STATE TRUNK HIGHWAY

STA **STATION**

SSPRC STORM SEWER PIPE REINFORCED CONCRETE

S/W **SIDEWALK**

TLE TEMPORARY LIMITED EASEMENT

VERT VERTICAL

VC VERTICAL CURVE

VCL **VERTICAL CURVE LENGTH** VPC VERTICAL POINT OF CURVATURE VPI **VERTICAL POINT OF INTERSECTION** VPT **VERTICAL POINT OF TANGENCY**

Ε **COUNTY: MILWAUKEE GENERAL NOTES** SHEET PROJECT NO: 2984-07-76 **HWY: CTH PP**

UTILITIES

AT&T Wisconsin

Mr. Jay Bulanek 435 S. 95th St. Milwaukee, WI 53214 Phone: (414) 491-2855 jb5175@att.com

Charter Communications

Mr. Beau Abuya 1320 N. Martin Luther King Dr. Milwaukee, WI 53212 Phone: (414) 908-1343 Mobile: (414) 758-9241 Beau.abuya@charter.com wis.engineering@charter.com

City of Milwaukee

841 North Broadway, Room 409 Milwaukee, WI 53202

Street Lighting – Mark MacRae,

Office: (414) 286-5928, Mobile: (414) 708-0434

Communications - Brian Pawlak,

(414) 286-3686

Sewer - Zafar Yousuf, Office: (414) 286-2467, zyousu@milwaukee.gov Water – 24hr Control Center, (414) 286-3710

Everstream

Mr. Shad Garcia Manager, Outside Plant 324 E Wisconsin Avenue, Suite 730 Milwaukee, WI 53202

Office: (414) 409-1708 Mobile: (414) 522-6685

WI-Relocations@everstream.net

UTILITIES

MCI/Verizon

Mr. RJ Cicatello 15725 W Ryerson Rd New Berlin, WI 53151 Phone: (262) 232-1323 Randy.Cicatello@verizon.com

Midwest Fiber Networks

Mr. Cory Schmuki 6070 N. Flint Rd Glendale, WI 53209 Phone: (414) 459-3561 Mobile: (414) 349-2764 rtrgovec@midwestfibernetworks.com relocationrequests@midwestfibernetworks.com

Milwaukee County Department of Transportation

Electrical Shop 10320 W. Watertown Plank Rd, 2nd Floor Wauwatosa, WI 53226

Phone: (414) 257-6555

Milwaukee Metropolitan Sewerage District (MMSD)

Mr. Jim Romanowski 260 W. Seeboth Street Milwaukee, WI 53204 Office: (414) 225-2241 Mobile: (414) 617-1429 JRomanowski@mmsd.com

We Energies – Electric

Mr. Alex Dantinne 500 S 116th St. West Allis, WI 53214 Phone: (920) 621-6903 Alex.Dantinne@we-engergies.com

We Energies – Gas

Mr. Jacob Hulbert 500 S 116th St. West Allis, WI 53214 Phone: (414) 459-3561 Mobile: (414) 349-2764

Jacob.Hulbert@we-energies.com



UTILITIES

WisDOT – Communications

Mr. John Mittelstadt Southeast Region 141 NW Barstow St Waukesha, WI 53187 Phone: (608) 205-7859

AGENCIES

City of Milwaukee

Mr. Chad Chrisbaum 841 N. Broadway, Room 701 Milwaukee, WI 53202 Phone: (414) 286-0470

Milwaukee County Transit System

Ms. Melanie Flynn Coordinator of Street Supervision 1942 N. 17th Street Milwaukee, WI 53205 Phone: (414) 343-1764

Southeastern Wisconsin Regional Planning Commission (SEWRPC)

W239 N1812 Rockwood Drive P.O. Box 1607 Waukesha, WI 53187-1607 Mr. Andy Traeger Phone: (262) 953-4296 Mobile: (262) 853-8463 atraeger@sewrpc.org Mr. Rob Merry

Phone: (262) 547-6722 Ext. 289 rmerry@sewrpc.org

WISDOT

Mr. Michael Baird Southeast Region 141 NW Barstow St Waukesha, WI 53187 Phone: (262) 548-5918 michael.baird@dot.wi.gov

MILWAUKEE COUNTY

Ms. Andrea Weddle-Henning
Director of Transportation Engineering
10930 W. Lapham St.
West Allis, WI 53214
Phone: (414) 257-5934
Andrea.Weddle-Henning@milwaukeecountywi.gov

Mr. Daniel Murphy Traffic Engineer Manager 10930 W. Lapham St. West Allis, WI 53214 Phone: (414) 257-5942

Daniel.Murphy@milwaukeecountywi.gov

Mr. Alex Thornburg Traffic Engineer 10930 W. Lapham St. West Allis, WI 53214 Phone: (414) 239-0517

Alex.Thornburg@milwaukeecountywi.gov

Mr. Eddie Sanitago Highway Director 10320 W. Watertown Plank Rd Wauwautosa, WI 53226 Phone: (414) 257-6569

Eddie.santiago@milwaukeecountywi.gov

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
SIGNING
TRAFFIC SIGNALS
TRAFFIC CONTROL
ALIGNMENT DIAGRAM

GENERAL NOTES

STATE AGENCIES

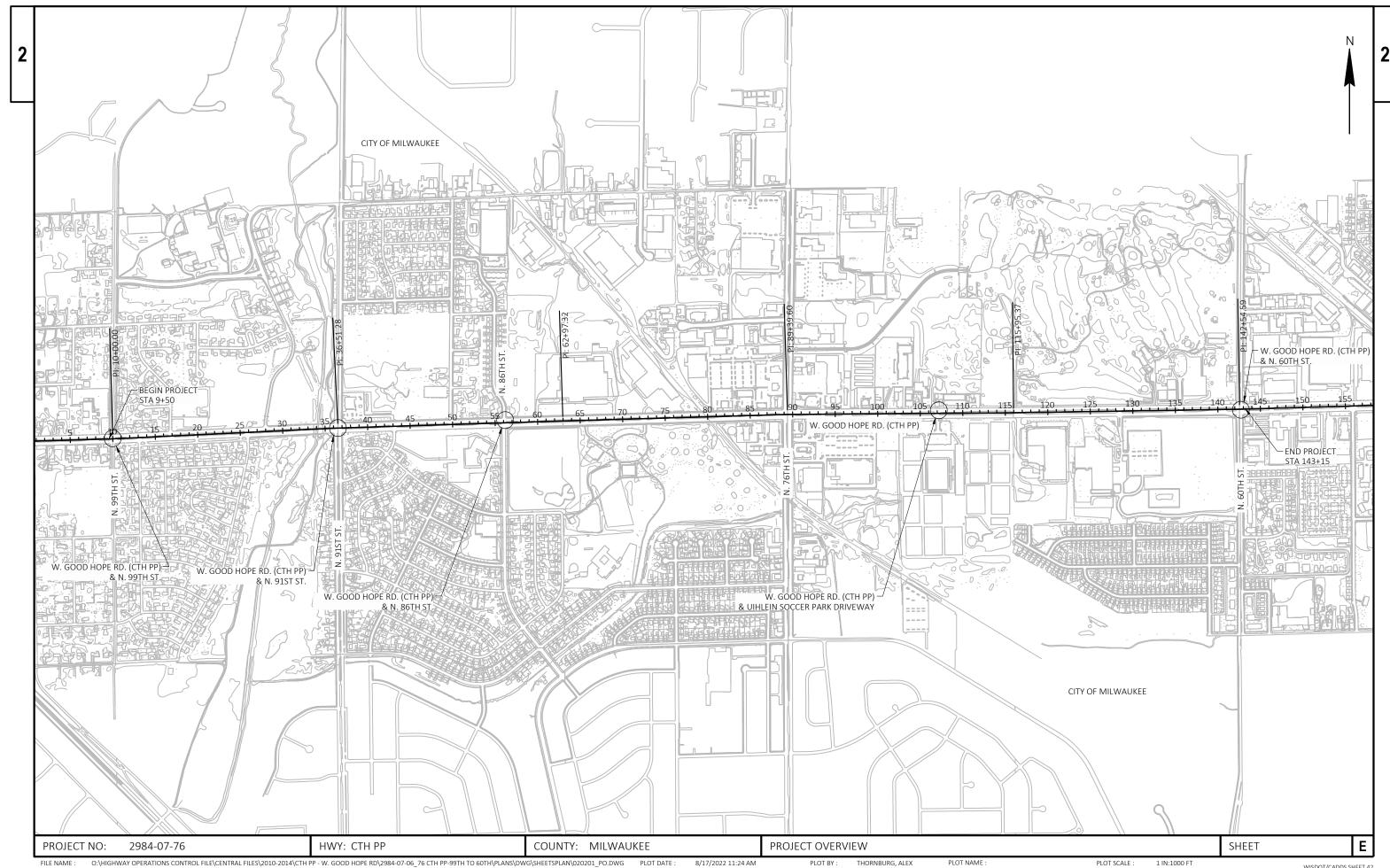
Wisconsin Department of Natural Resources

Mr. Craig Webster Environmental Analysis and Review Specialist 141 NW Barstow St Waukesha, WI 53188 Phone: (262) 574-2141

Craig.Webster@wisconsin.gov

PROJECT NO: 2984-07-76 HWY: CTH PP COUNTY: MILWAUKEE GENERAL NOTES SHEET E

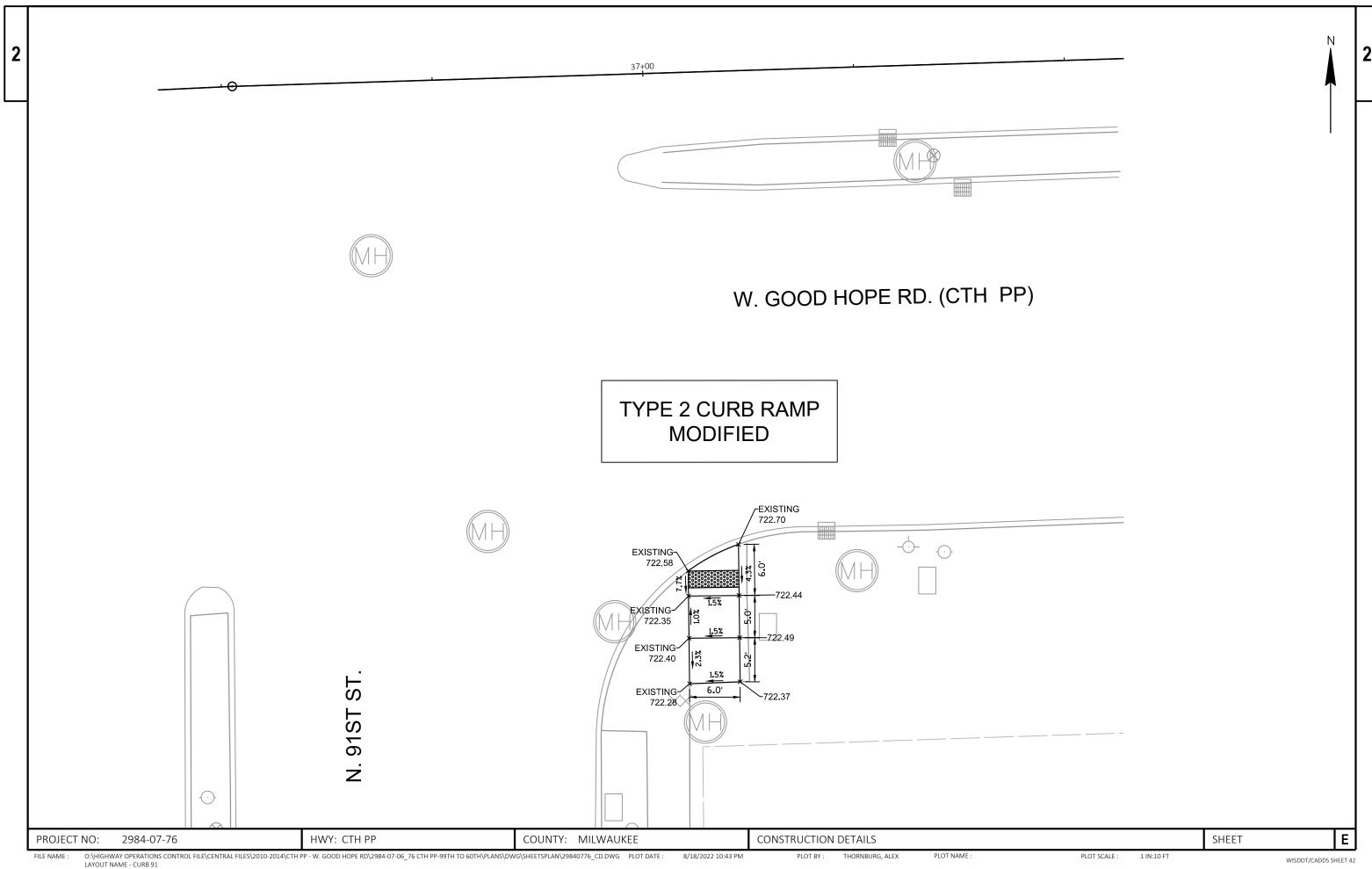
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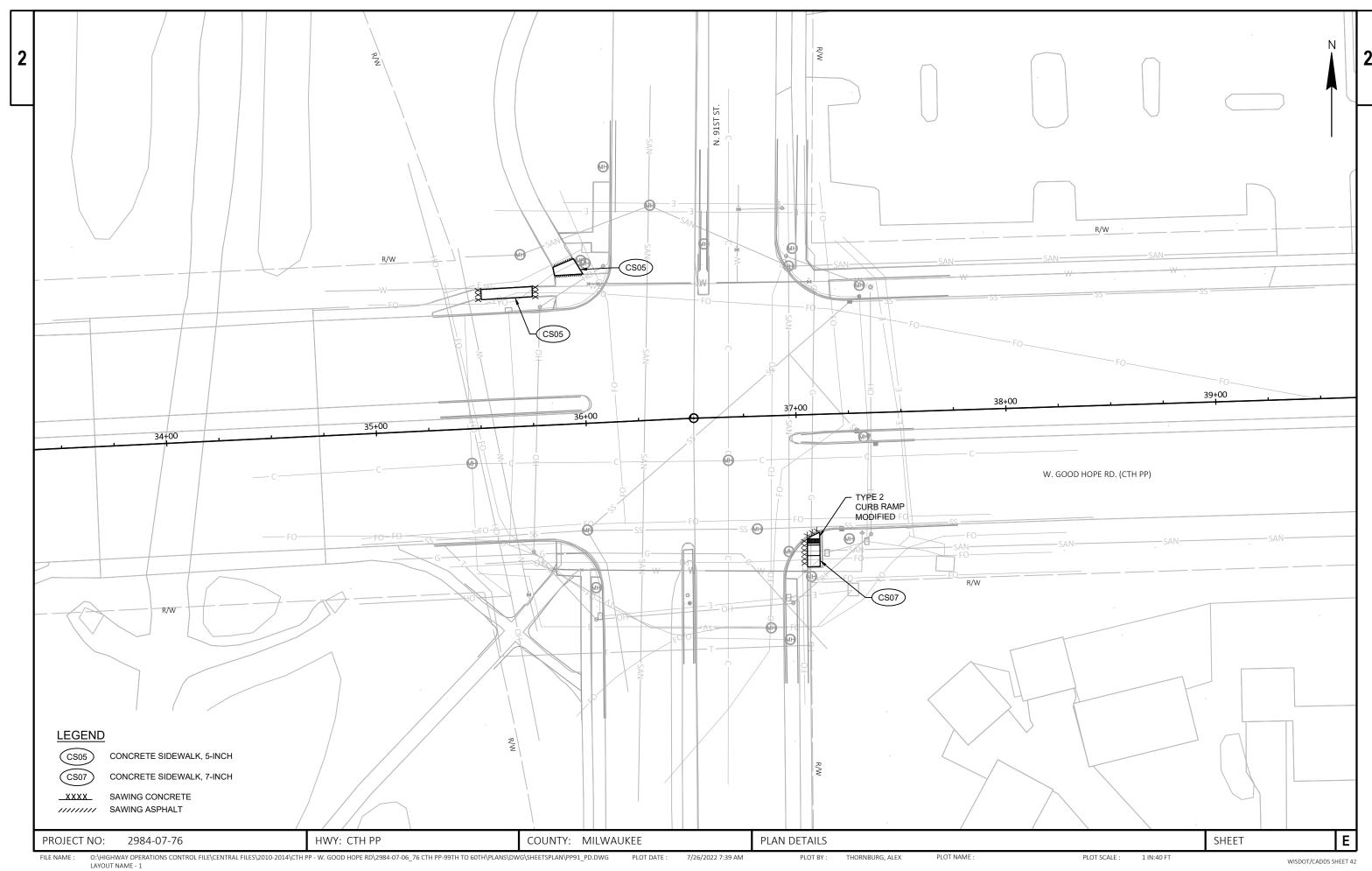


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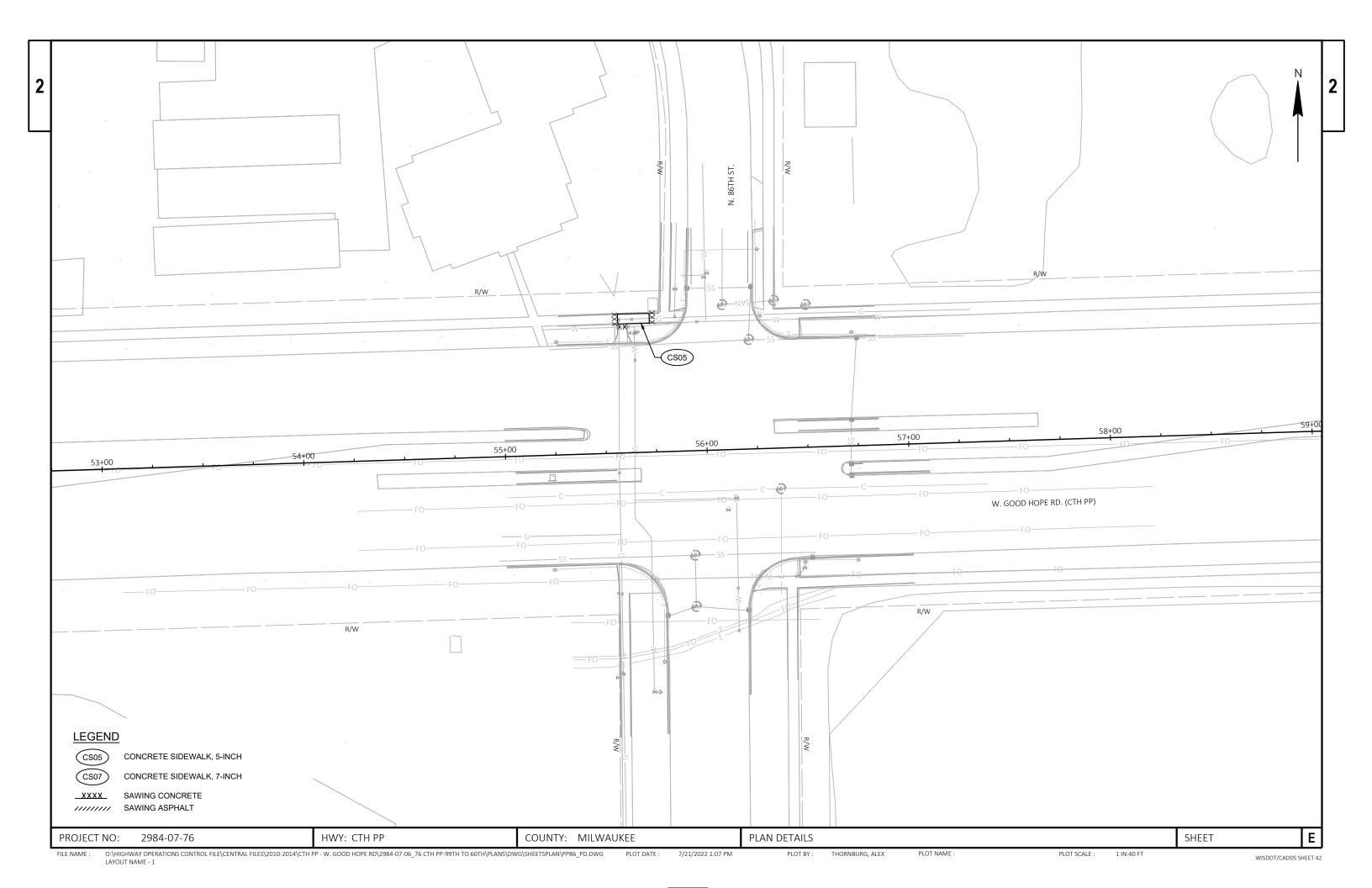
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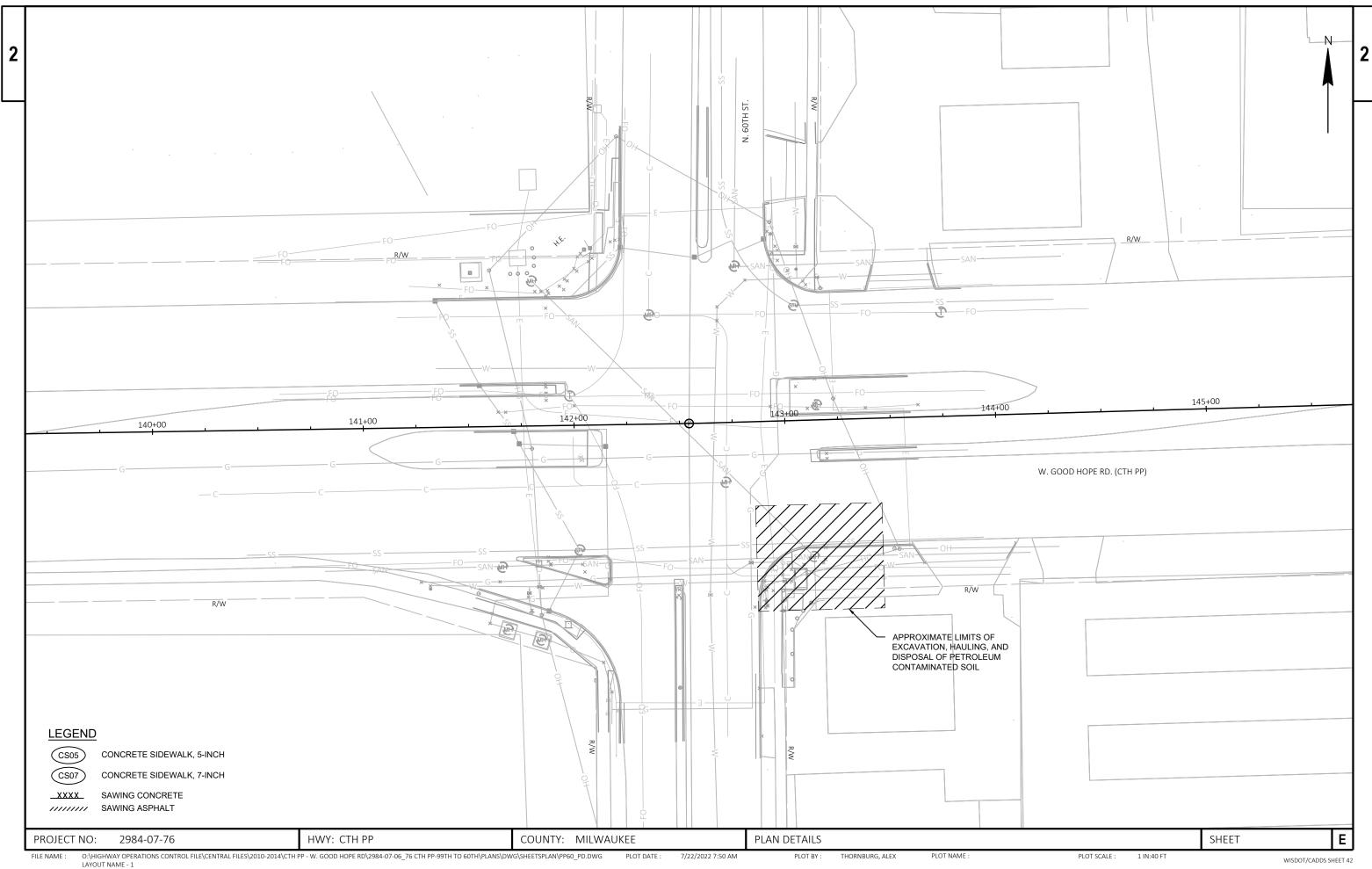
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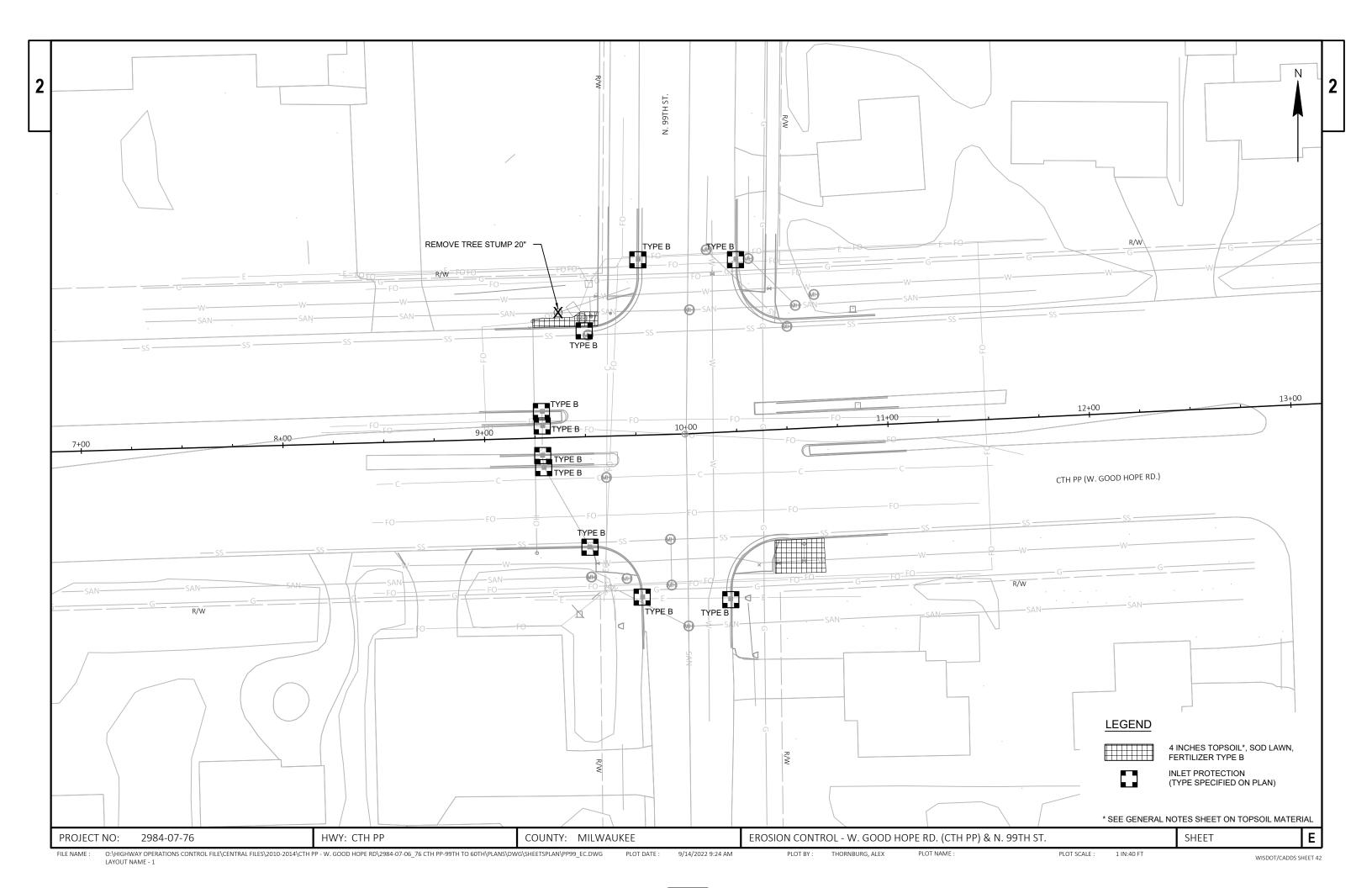


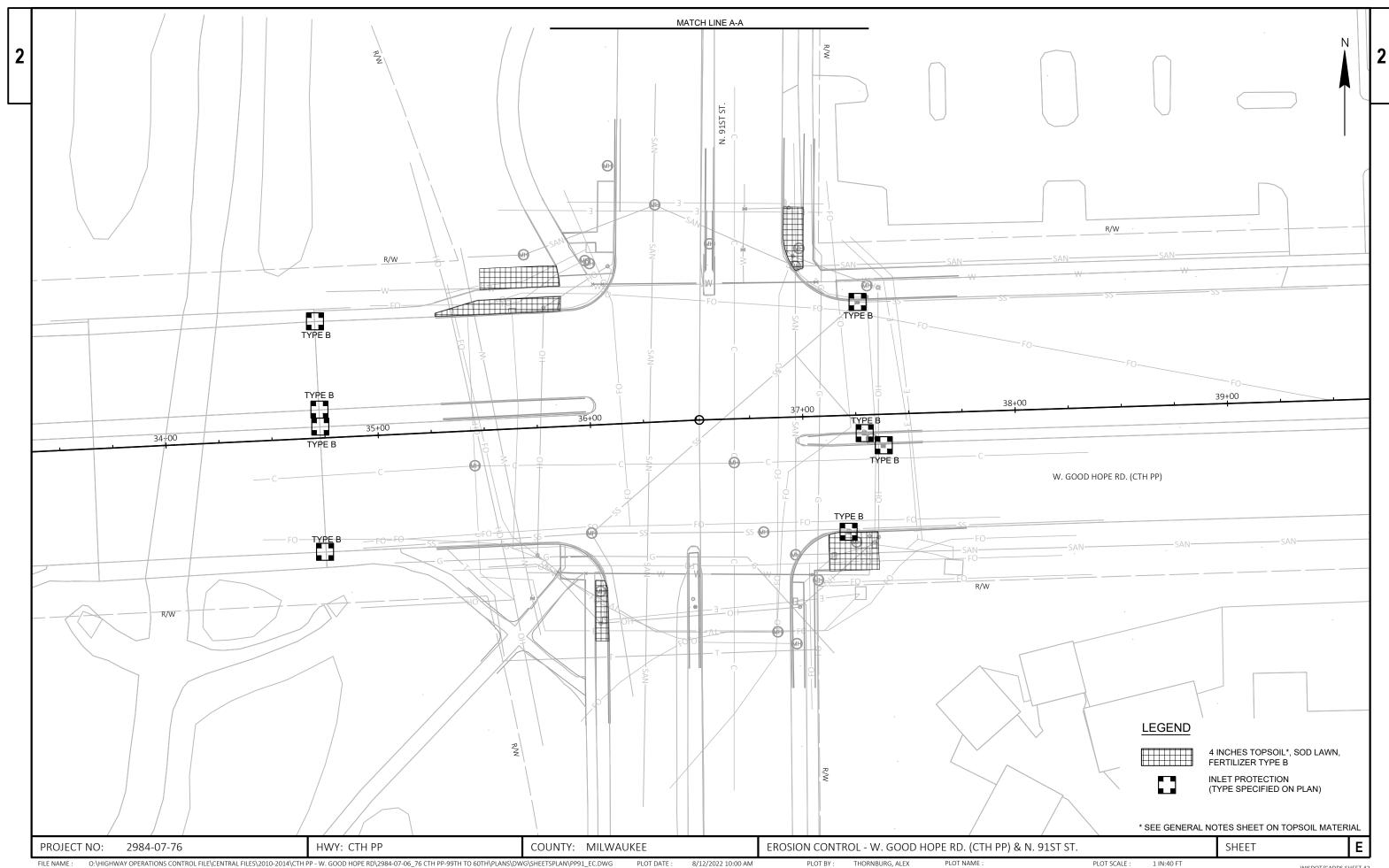


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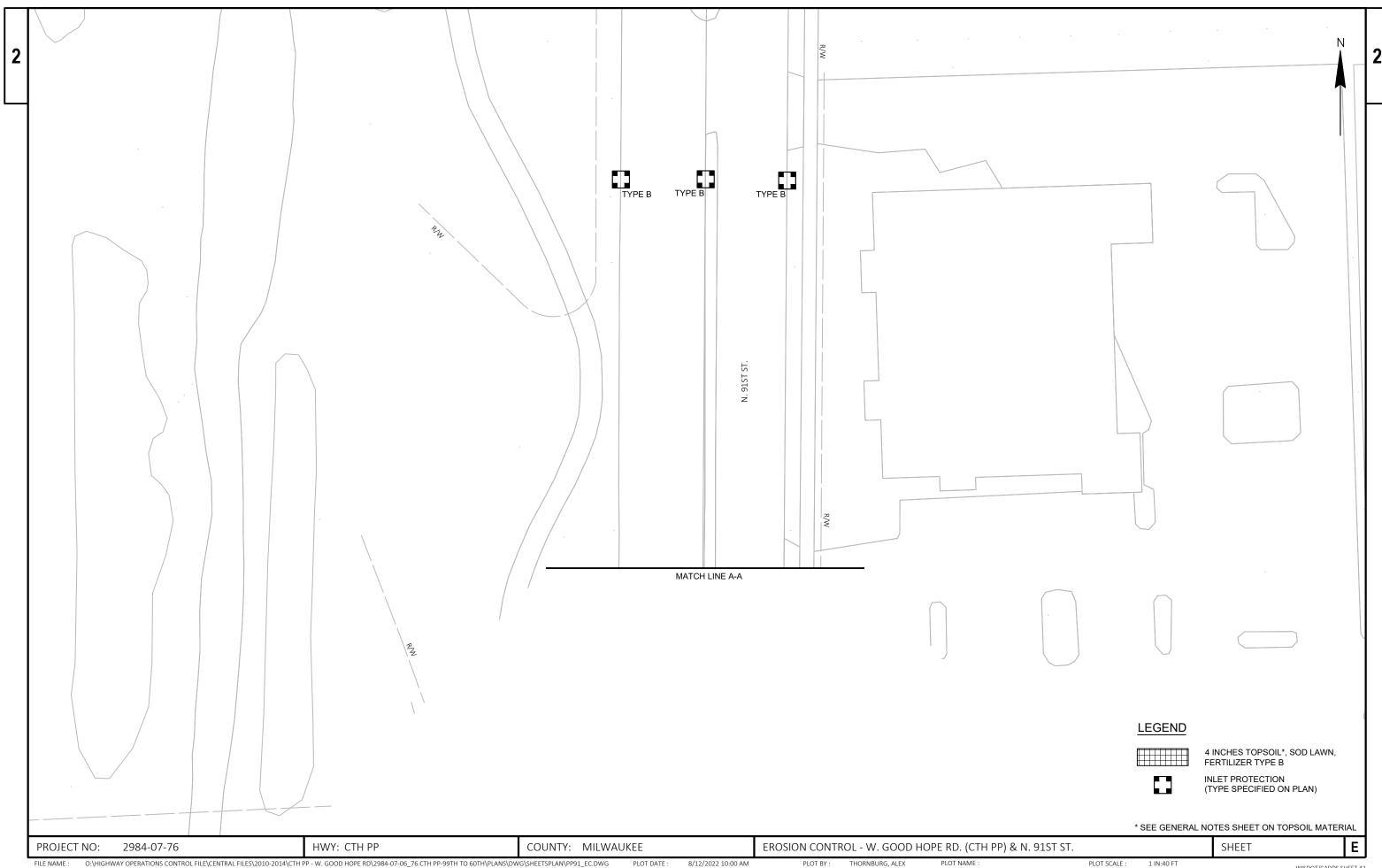




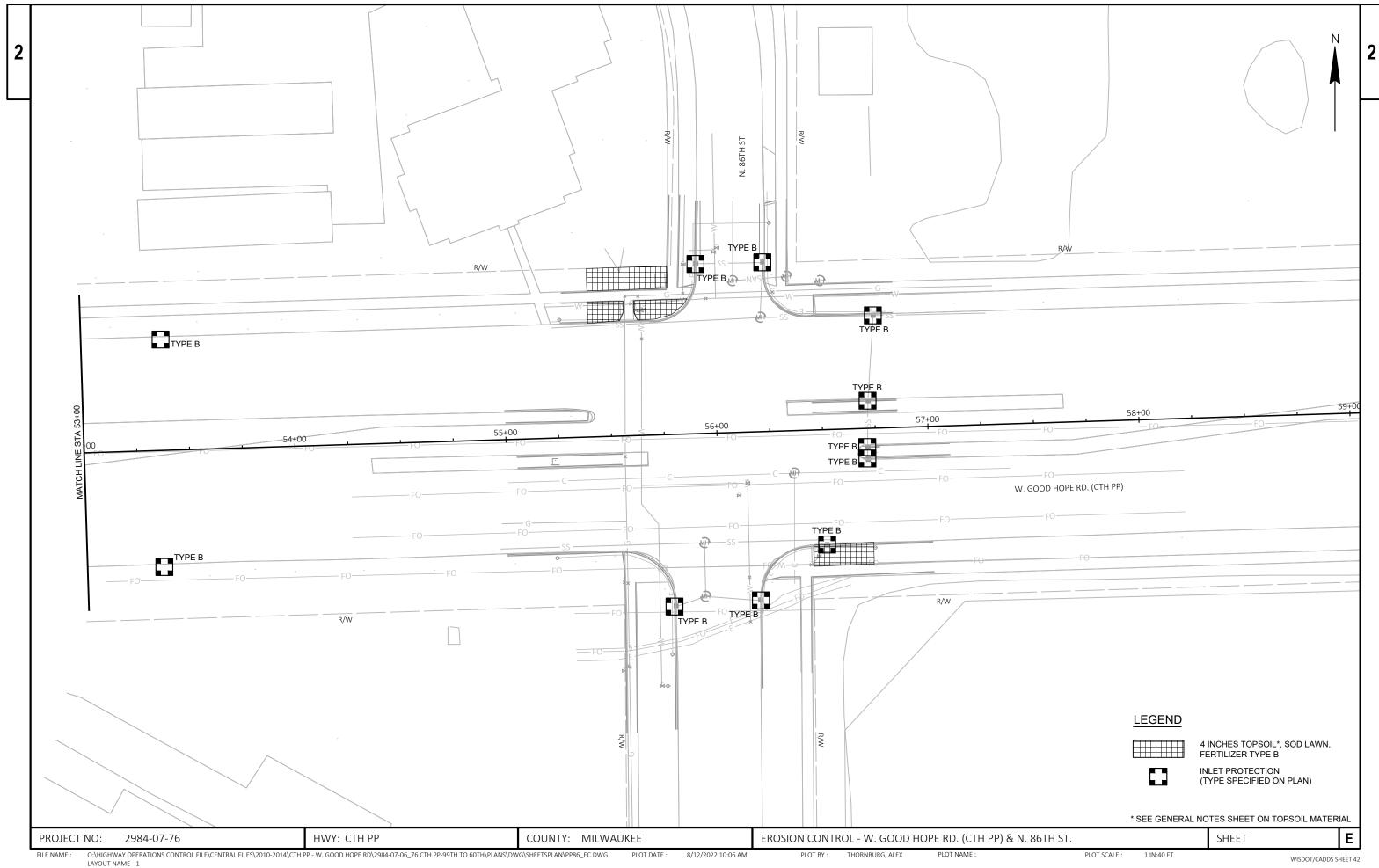


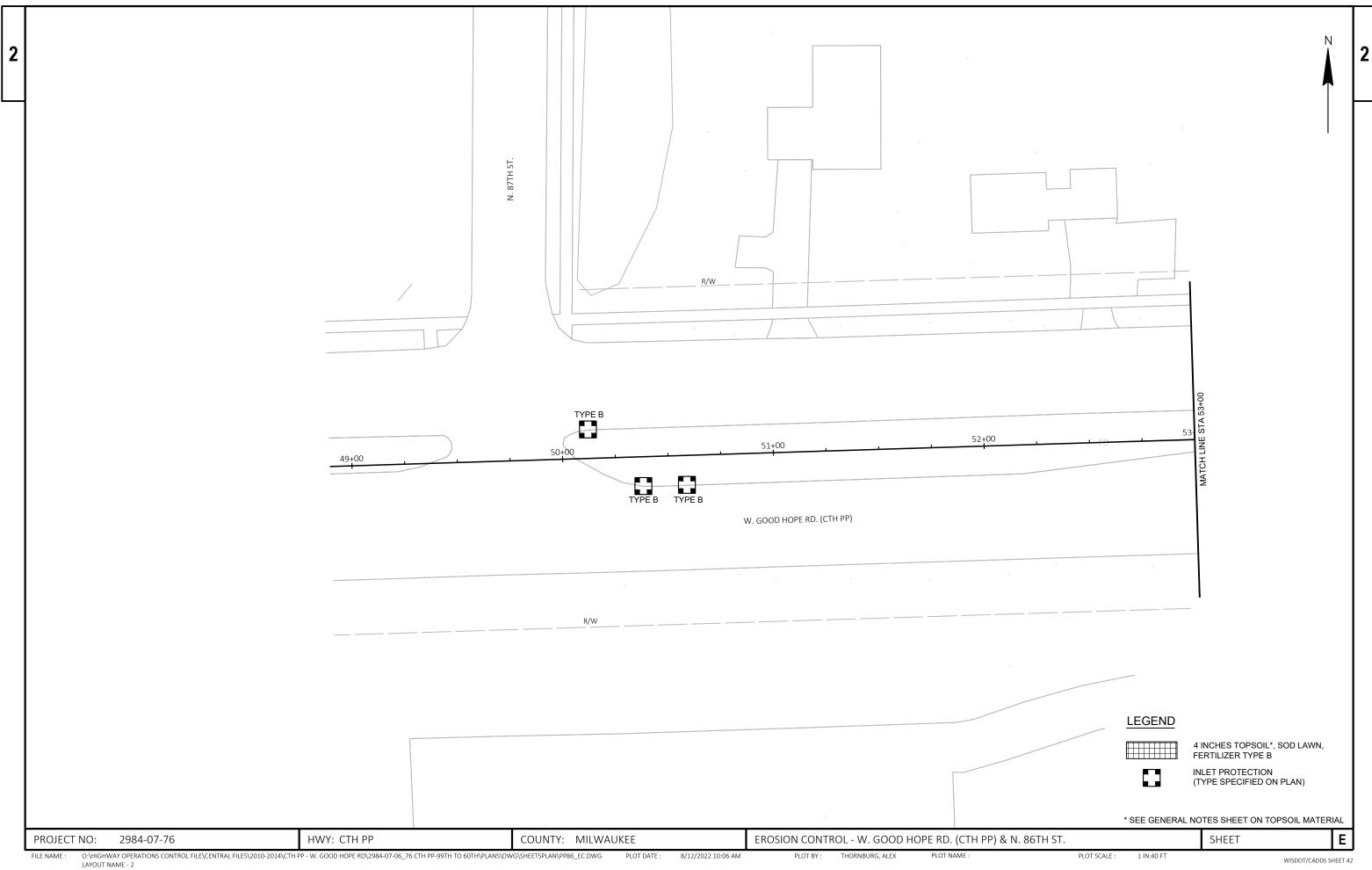


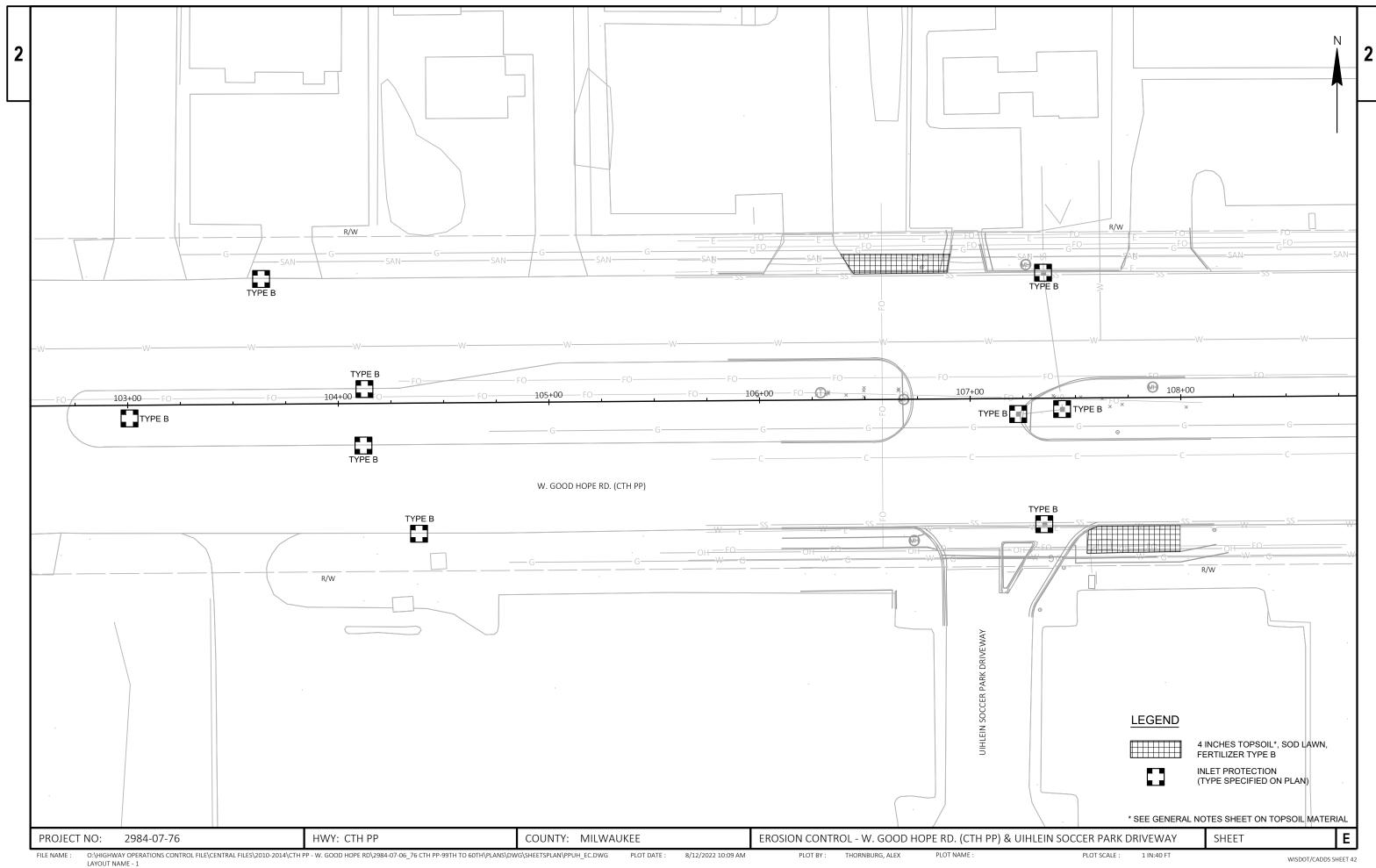
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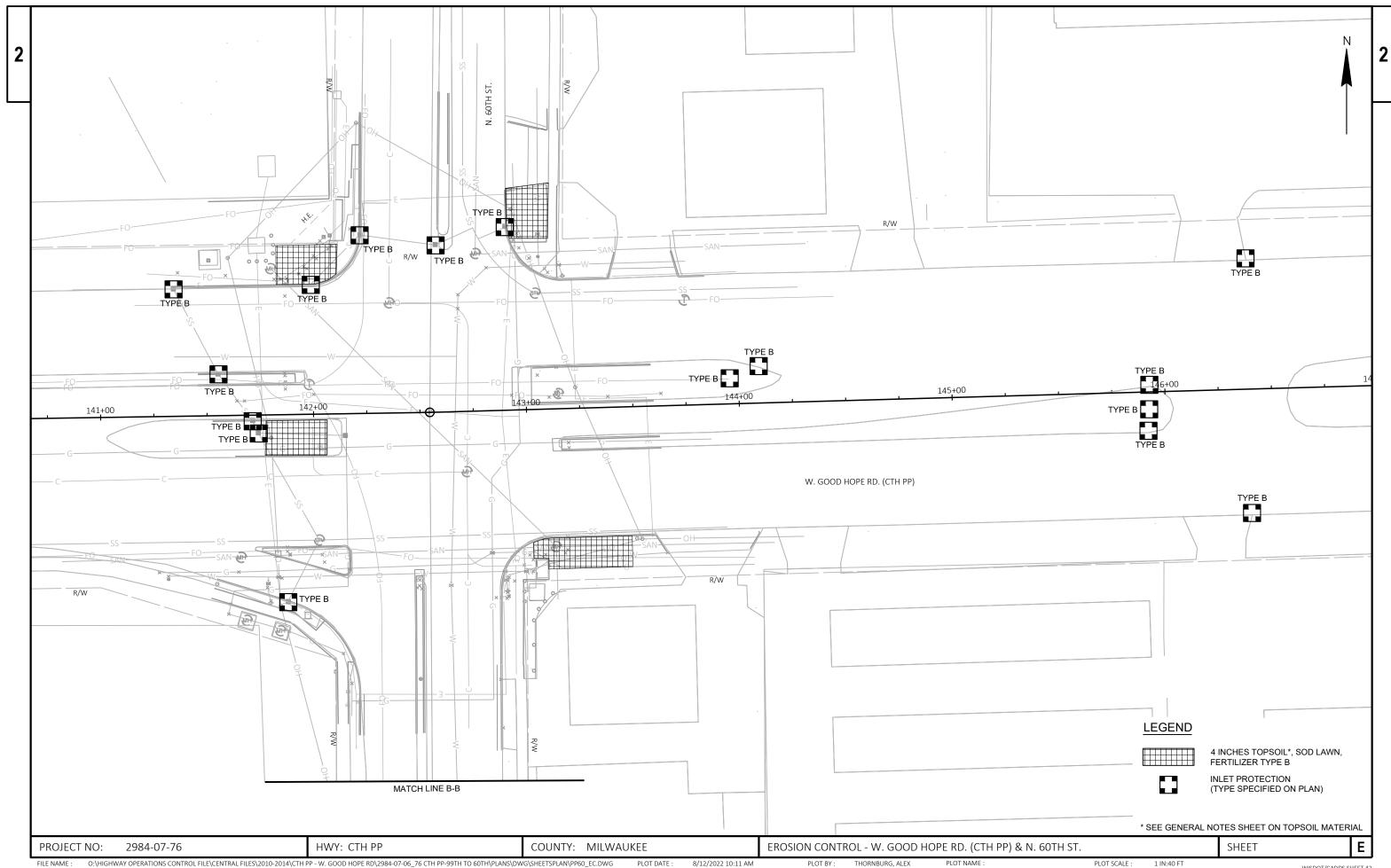




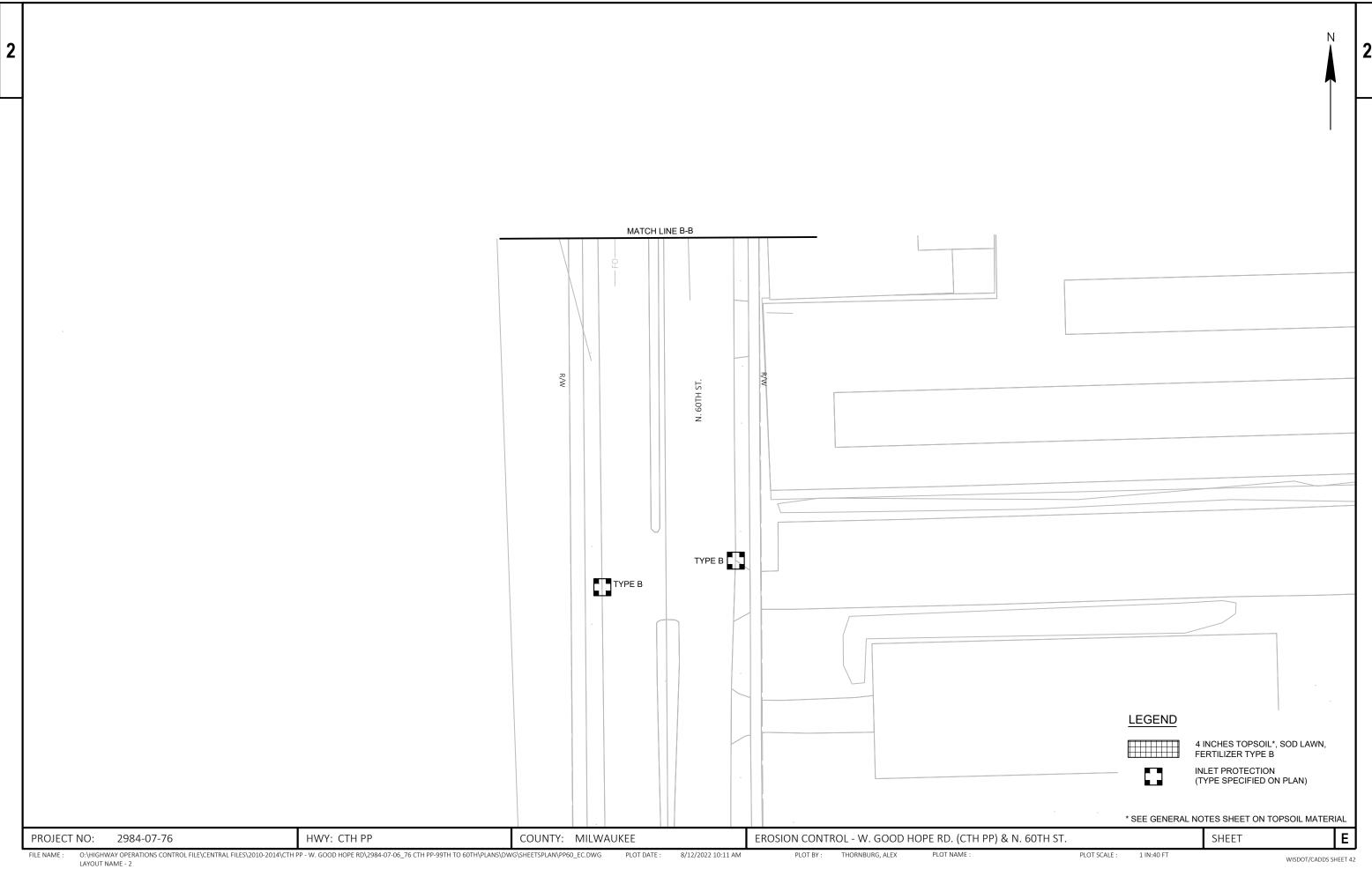


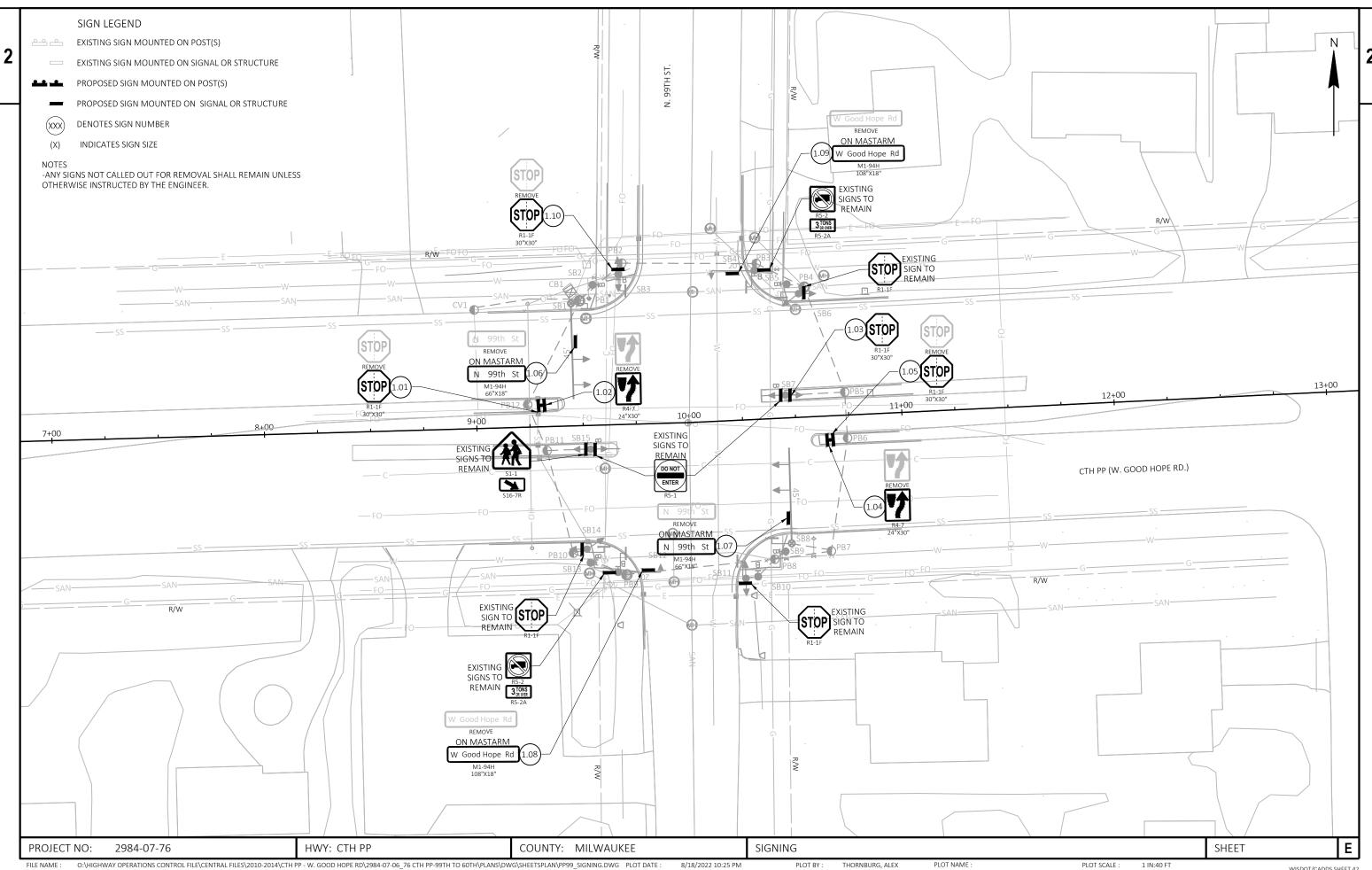
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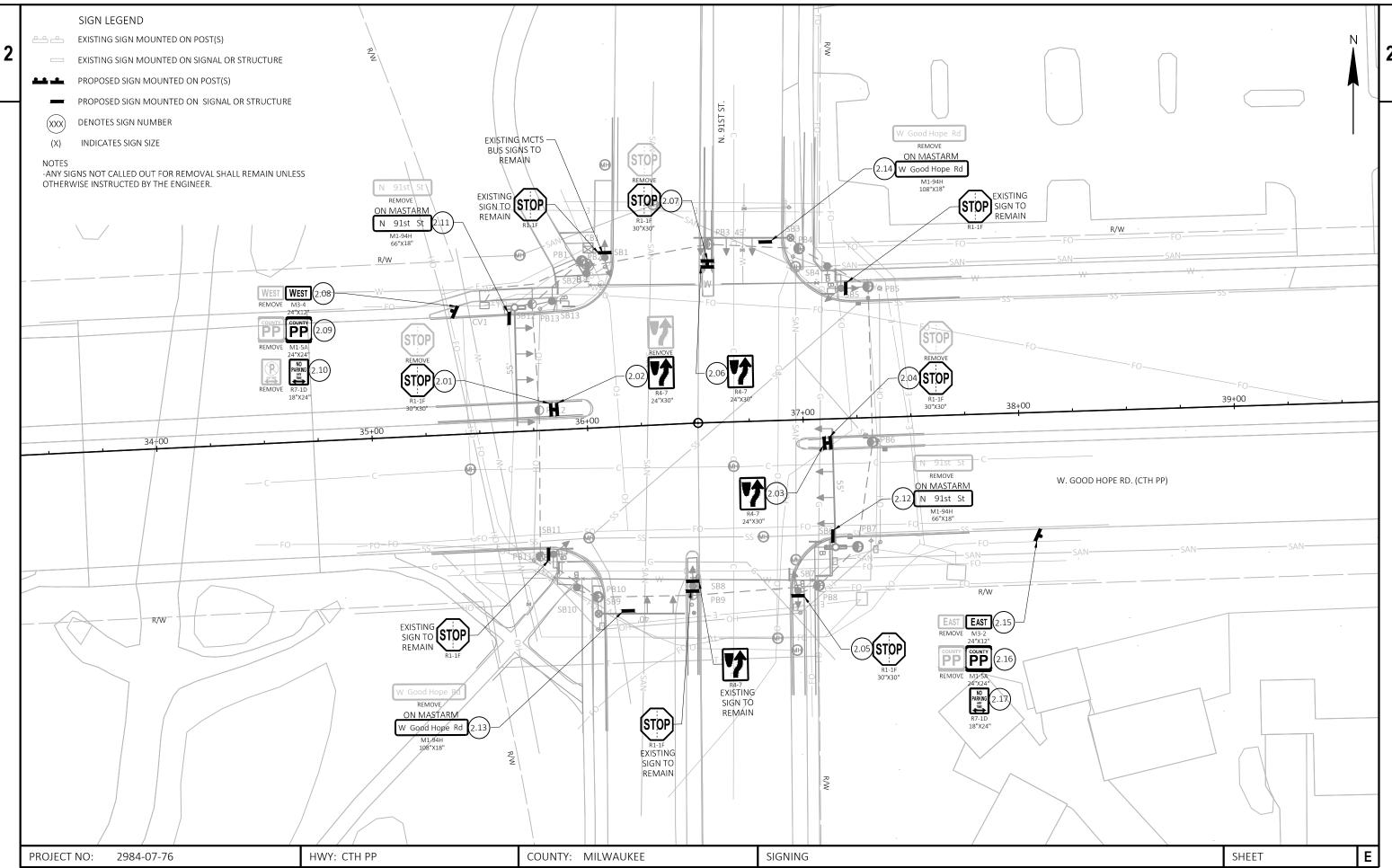
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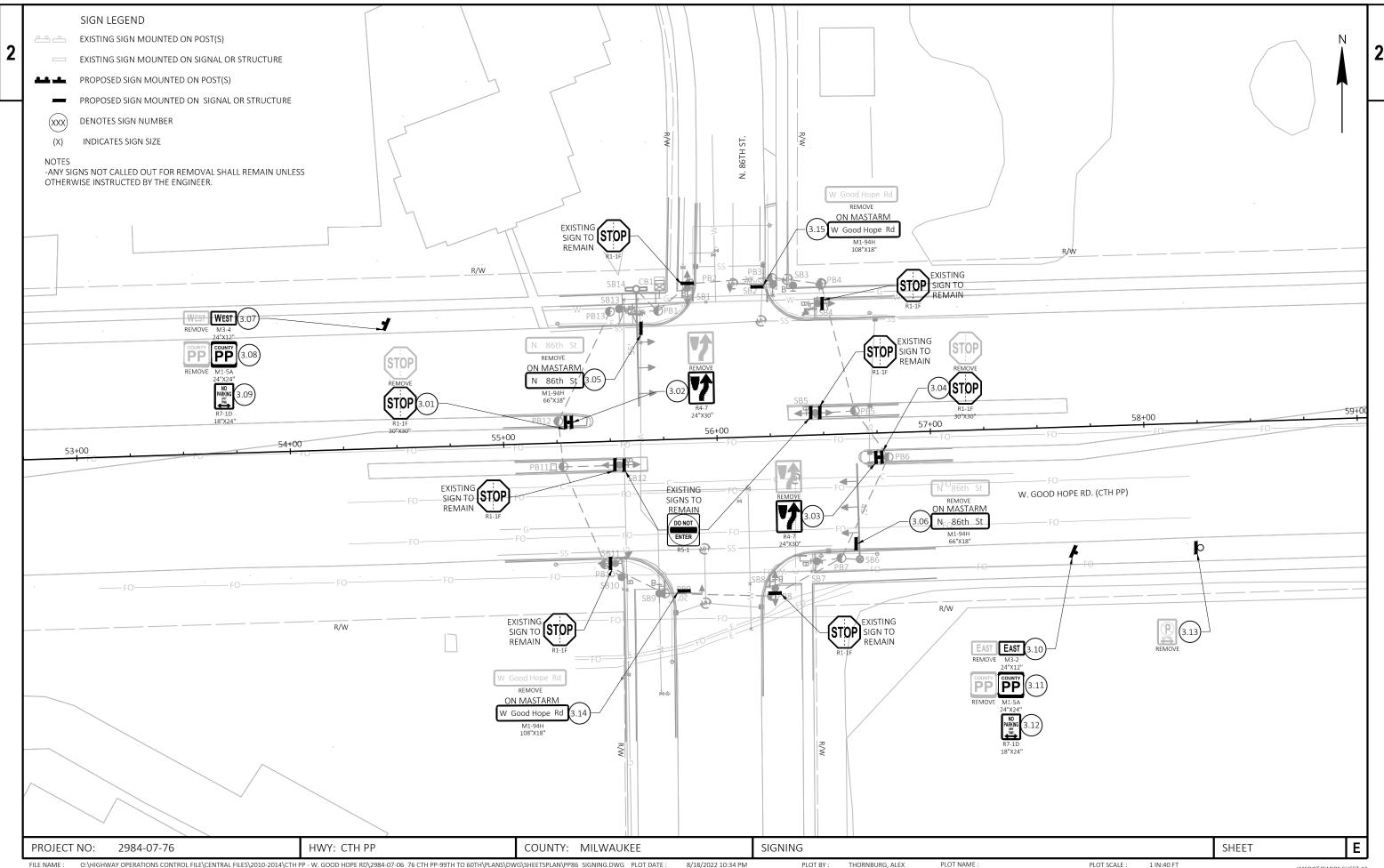
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PLOT BY: THORNBURG, ALEX

PLOT NAME : PLOT SCALE :

1 IN:40 FT WISDOT/CADDS SHEET 42

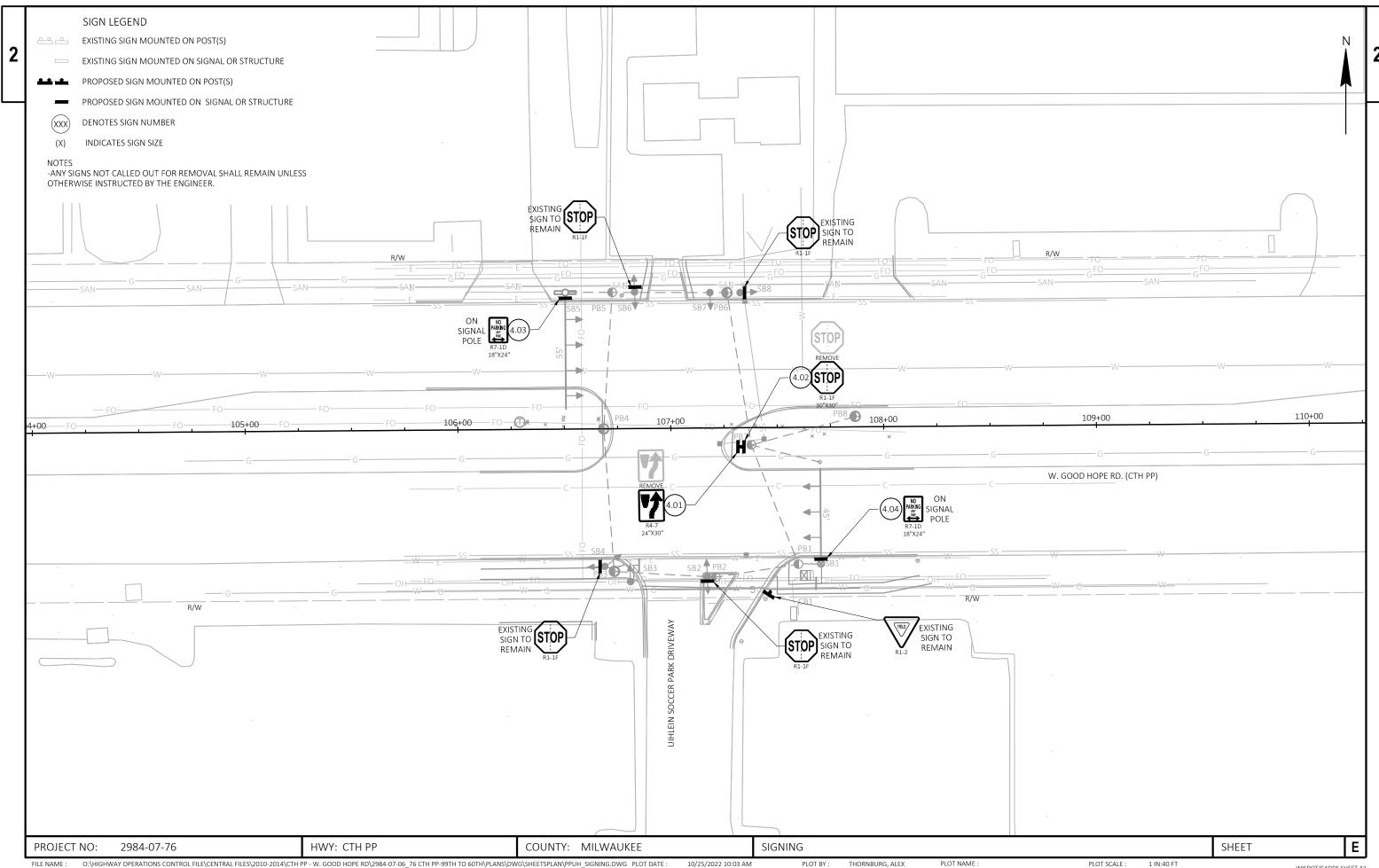


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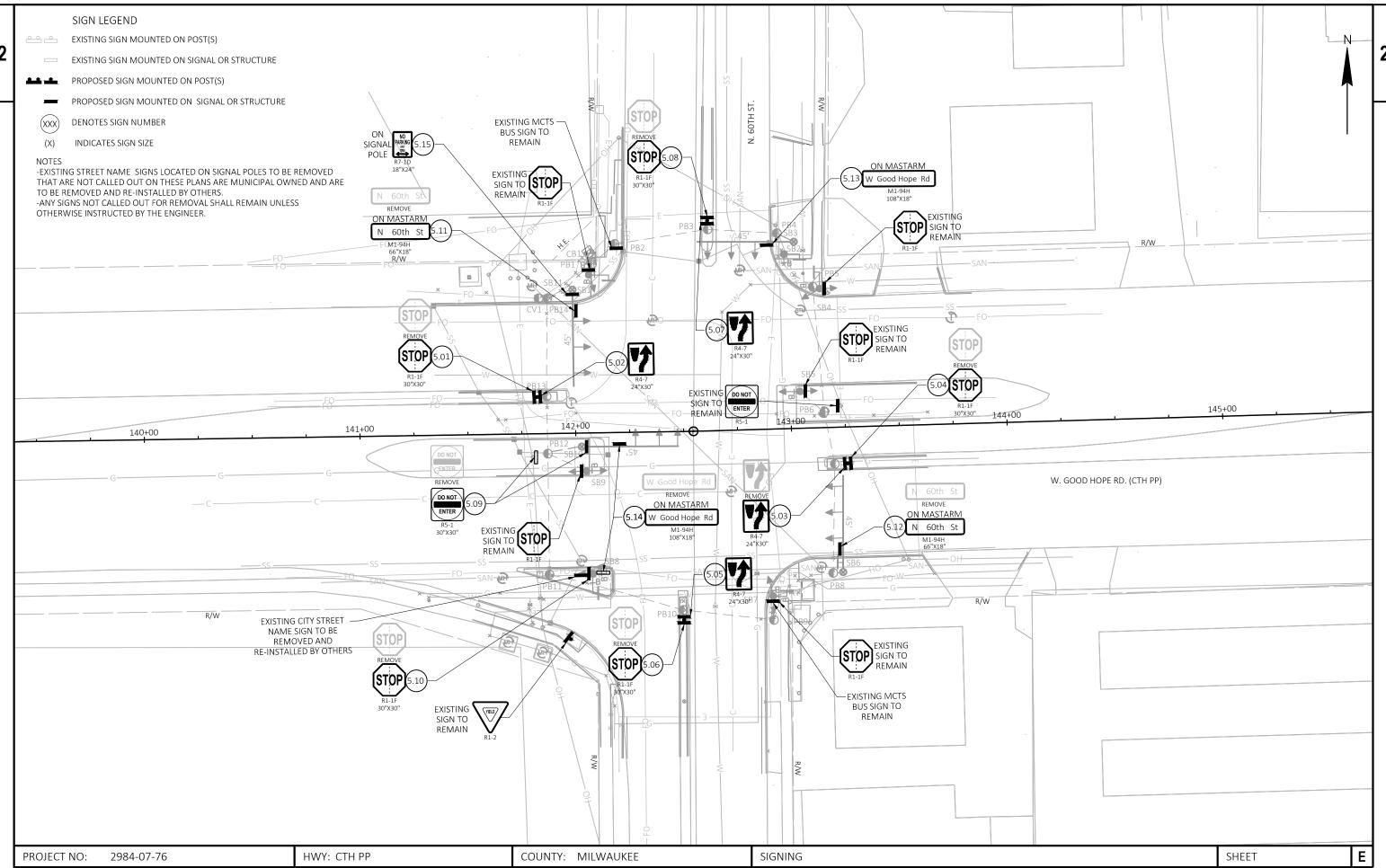
THORNBURG, ALEX

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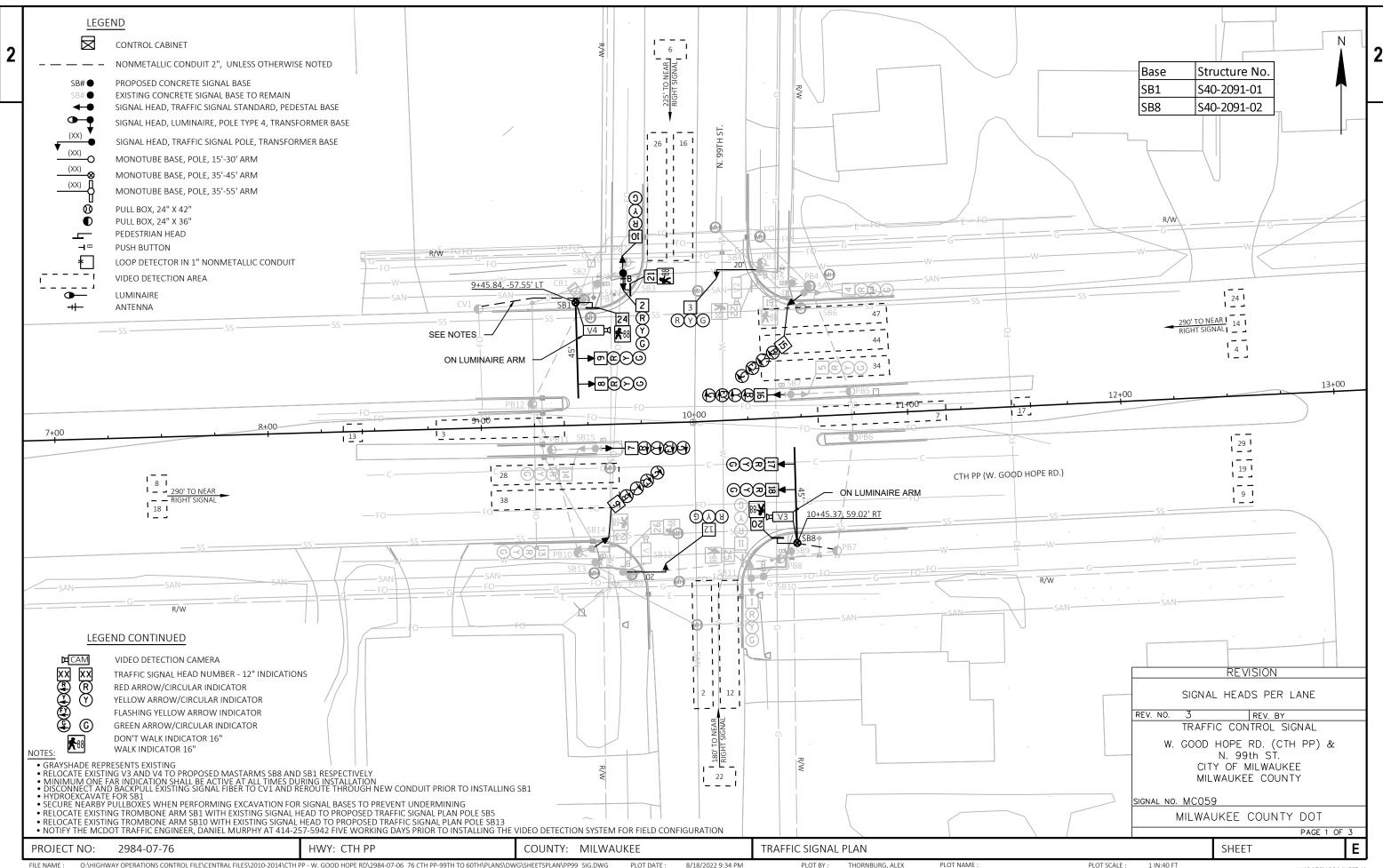


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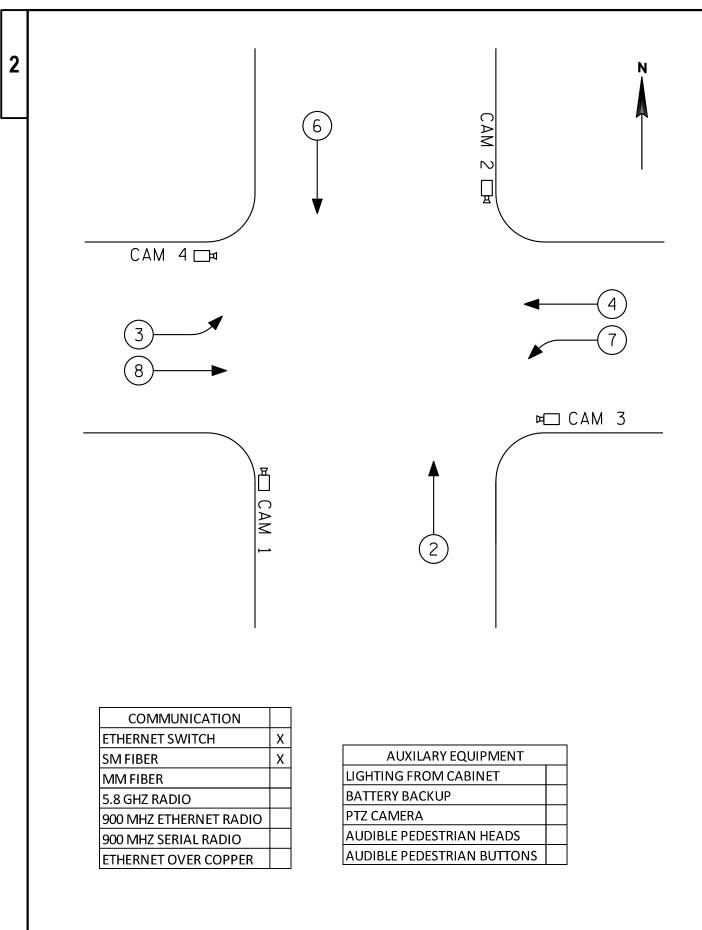
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	ſ	PHASES			OVERLAPS	
PHASE	VEHICLE	LEFT TURN TYPE	PED	OVLP	INCLUDES	OUTPUT
1				Α		
2	Χ		Χ	В		
3	Χ	FYA		C		
4	Χ		Χ	D		
5				Е		
6	Χ		Χ	ш	3 FY	10 Y
7	Χ	FYA		G		
8	Χ		Χ	Н	7 FY	12 Y

REVISION

SIGNAL HEADS PER LANE

REV. NO. 3 REV. BY

TRAFFIC CONTROL SIGNAL W. GOOD HOPE RD. (CTH PP) & N. 99th SŤ.

CITY OF MILWAUKEE MILWAUKEE COUNTY

SIGNAL NO. MC059

MILWAUKEE COUNTY DOT

PAGE 2 OF 3

COUNTY: MILWAUKEE TRAFFIC SIGNAL PLAN

SHEET

FILE NAME :

PROJECT NO: 2984-07-76

O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH PP - W. GOOD HOPE RD\2984-07-06_76 CTH PP-99TH TO 60TH\PLANS\DWG\SHEETSPLAN\PP99_SIG.DWG PLOT DATE: 8/18/2022 9:34 PM

HWY: CTH PP

PLOT BY: THORNBURG, ALEX

PLOT NAME :

PLOT SCALE : ##########

2

PROJECT ID: SIGNAL WIRE COLOR | BLK-BLACK | RED-RED 2984-07-76 GRN-GREEN INTERSECTION: CODING WHT-WHITE BLU-BLUE ORG-ORANGE W. GOOD HOPE RD. (CTH PP) & N. 99TH ST.

							SIGNAL IN	IDICATION WI	RE COLOR				PED BU	JTTONS
CB1 TO	# OF COND.	HEAD NO.	PHASE	RED	YELLOW	GREEN	<red></red>	<yellow></yellow>	<fl ylw=""></fl>	<green></green>	D/WALK	WALK		
SB1	12	8/9	4	RED	ORG	GRN								
		24	6P								BLU	BLK		
SB2	* 7	В	6P										GRN	WHT/BLK
SB3	12	2	2	RED	ORG	GRN								
		10	6	RED/BLK	ORG/BLK	GRN/BLK								
		21	4P								BLU	BLK		
		В	4P										WHT/BLK	BLK/WHT
SB4	* 12	3	2	RED	ORG	GRN								
		22	4P								BLU	BLK		
		В	4P										WHT/BLK	BLK/WHT
SB5	* 7	В	2P										GRN	WHT/BLK
SB6	12	4	4	RED	ORG	GRN								
		15	3				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		19	2P								BLU	BLK		
SB7	*12	5	4	RED	ORG	GRN								
		16	3				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		В	2P										WHT/BLK	BLK/WHT
SB8	12	17 / 18	8	RED	ORG	GRN								
		20	2P								BLU	BLK		
SB9	* 7	В	2P										GRN	WHT/BLK
SB10	* 7	В	8P										GRN	WHT/BLK
SB11	* 12	1	2	RED	ORG	GRN								
		11	6	RED/BLK	ORG/BLK	GRN/BLK								
		25	8P								BLU	BLK		
SB12	* 12	12	6	RED	ORG	GRN								
		26	8P								BLU	BLK		
		В	8P										WHT/BLK	BLK/WHT
SB13	* 7	В	6P										GRN	WHT/BLK
SB14	12	13	8	RED	ORG	GRN								
		6	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		23	6P								BLU	BLK		
SB15	*12	14	8	RED	ORG	GRN								
		7	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		В	6P										WHT/BLK	BLK/WHT

NOTES:

- 1. DO NOT USE THE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR SIGNAL INDICATIONS.
- 2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
- * EXISTING SIGNAL WIRING TO REMAIN.

REVISION SIGNAL HEADS PER LANE REV. NO. 3 REV. BY TRAFFIC CONTROL SIGNAL W. GOOD HOPE RD. (CTH PP) & N. 99th SŤ. CITY OF MILWAUKEE MILWAUKEE COUNTY SIGNAL NO. MC059 MILWAUKEE COUNTY DOT PAGE 3 OF 3

PROJECT NO: 2984-07-76 HWY: CTH PP

COUNTY: MILWAUKEE

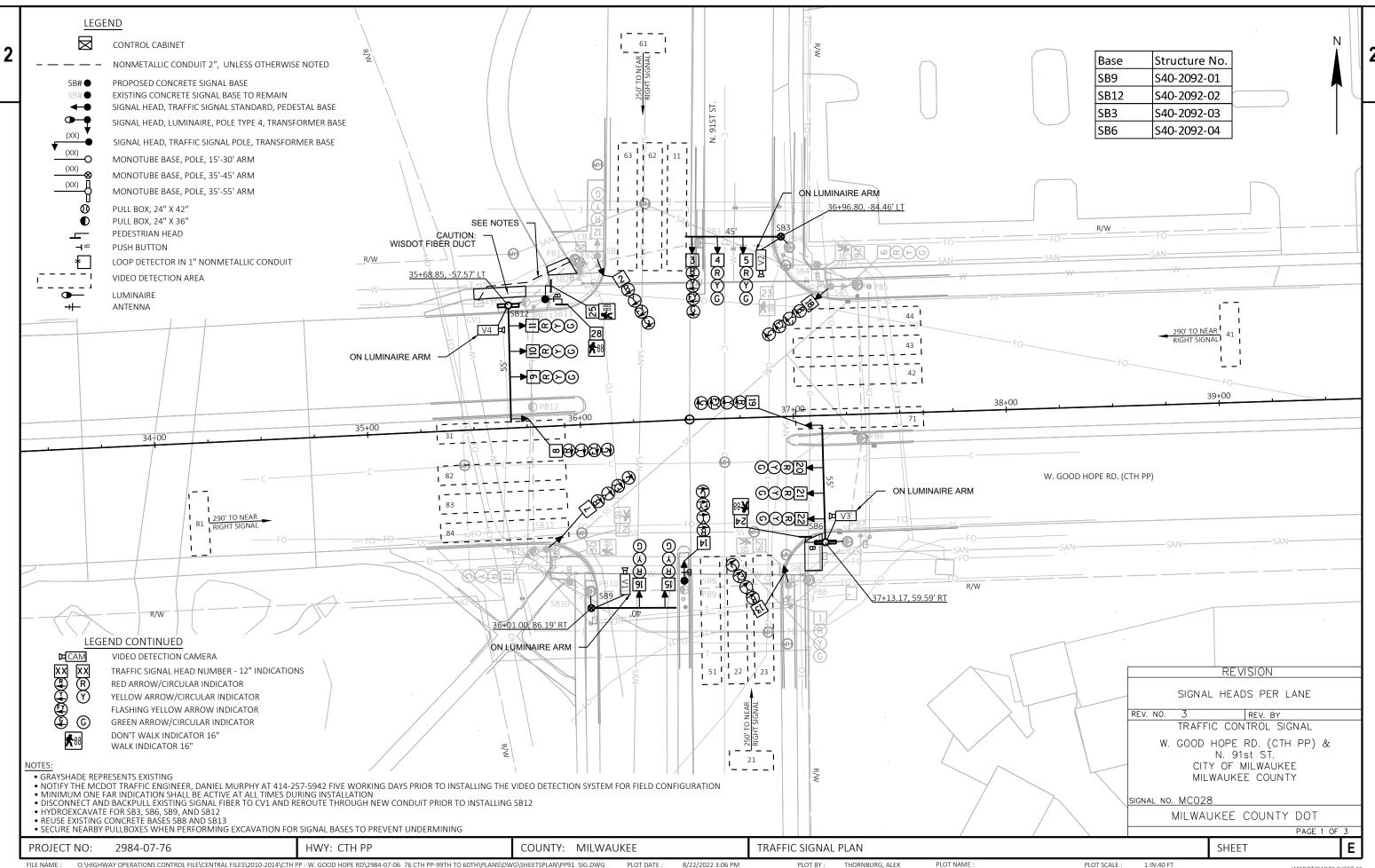
TRAFFIC SIGNAL PLAN

PLOT NAME :

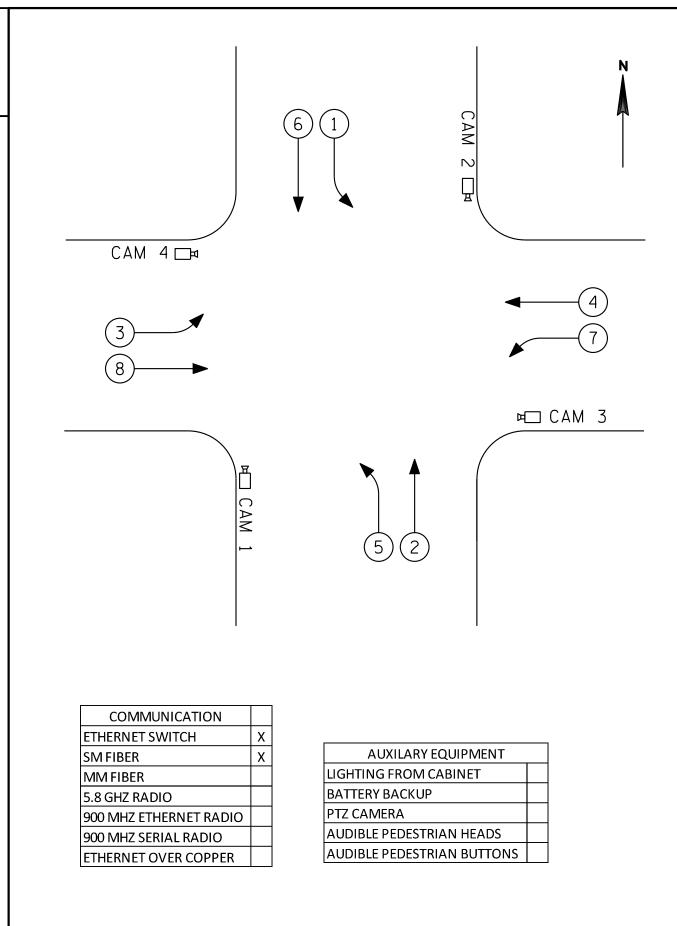
SHEET

PLOT SCALE :

Ε







		PHASES			OVERLAPS	
PHASE	VEHICLE	LEFT TURN TYPE	PED	OVLP	INCLUDES	OUTPUT
1	Х	FYA		Α		
2	Х		Х	В		
3	Х	FYA		C		
4	Х		Χ	D		
5	Х	FYA		Е	1 FY	9 Y
6	Х		Χ	F	3 FY	10 Y
7	Х	FYA		G	5 FY	11 Y
8	Х		Х	Η	7 FY	12 Y

REVISION

SIGNAL HEADS PER LANE

REV. NO. 3 REV. BY

> W. GOOD HOPE RD. (CTH PP) & N. 91st SŤ. CITY OF MILWAUKEE MILWAUKEE COUNTY

TRAFFIC CONTROL SIGNAL

SIGNAL NO. MCO28

MILWAUKEE COUNTY DOT

PAGE 2 OF 3

PROJECT NO: 2984-07-76 HWY: CTH PP COUNTY: MILWAUKEE

PLOT BY: THORNBURG, ALEX

TRAFFIC SIGNAL PLAN

PLOT NAME :

##########

SHEET

2

PROJECT ID: 2984-07-76 INTERSECTION: W. GOOD HOPE RD. (CTH PP) & N. 91ST ST. SIGNAL WIRE COLOR | BLK-BLACK | RED-RED GRN-GREEN CODING WHT-WHITE BLU-BLUE ORG-ORANGE

							SIGNAL IN	IDICATION WI	RE COLOR				PED BU	JTTONS
CB1 TO	# OF COND.	HEAD NO.	PHASE	RED	YELLOW	GREEN	<red></red>	<yellow></yellow>	<fl ylw=""></fl>	<green></green>	D/WALK	WALK		
SB1	12	12	6	RED	ORG	GRN								
		2	5				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
SB2	* 7	В	4P										GRN	WHT/BLK
SB3	12	4/5	2	RED	ORG	GRN								
		3	5				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
SB4	* 7	В	4P										GRN	WHT/BLK
SB5	15	6	4	RED	ORG	GRN								
		18	3				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		23	2P								BLU	BLK		
		26	4P								BLU/WHT	GRN/WHT		
		В	2P										WHT/BLK	BLK/WHT
SB6	15	20 / 21 / 22	8	RED	ORG	GRN								
		19	3				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		24	2P								BLU	BLK		
		В	2P										WHT/BLK	BLK/WHT
SB7	12	1	2	RED	ORG	GRN								
		13	1				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		29	8P								BLU	BLK		
		В	8P										WHT/BLK	BLK/WHT
SB8	*7	14	1				RED	ORG	BLU	GRN				
		В	8P										BLK	WHT/BLK
SB9	12	15 / 16	2	RED	ORG	GRN								
SB10	* 7	В	8P										GRN	WHT/BLK
SB11	15	17	8	RED	ORG	GRN								
		7	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		27	6P								BLU	BLK		
		30	8P								BLU/WHT	GRN/WHT		
		В	6P										WHT/BLK	BLK/WHT
SB12	12	9 / 10 / 11	4	RED	ORG	GRN								
		8	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
SB13	*12	25	4P								BLU	BLK		
		28	6P								BLU/BLK	GRN/BLK		
		В	6P										WHT/BLK	BLK/WHT

NOTES:

- 1. DO NOT USE THE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR SIGNAL INDICATIONS.
- 2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
- * EXISTING SIGNAL WIRING TO REMAIN.

REVISION SIGNAL HEADS PER LANE REV. NO. 3 REV. BY TRAFFIC CONTROL SIGNAL W. GOOD HOPE RD. (CTH PP) & N. 91st SŤ. CITY OF MILWAUKEE MILWAUKEE COUNTY SIGNAL NO. MCO28 MILWAUKEE COUNTY DOT PAGE 3 OF 3

SHEET

PROJECT NO: 2984-07-76 HWY: CTH PP

COUNTY: MILWAUKEE

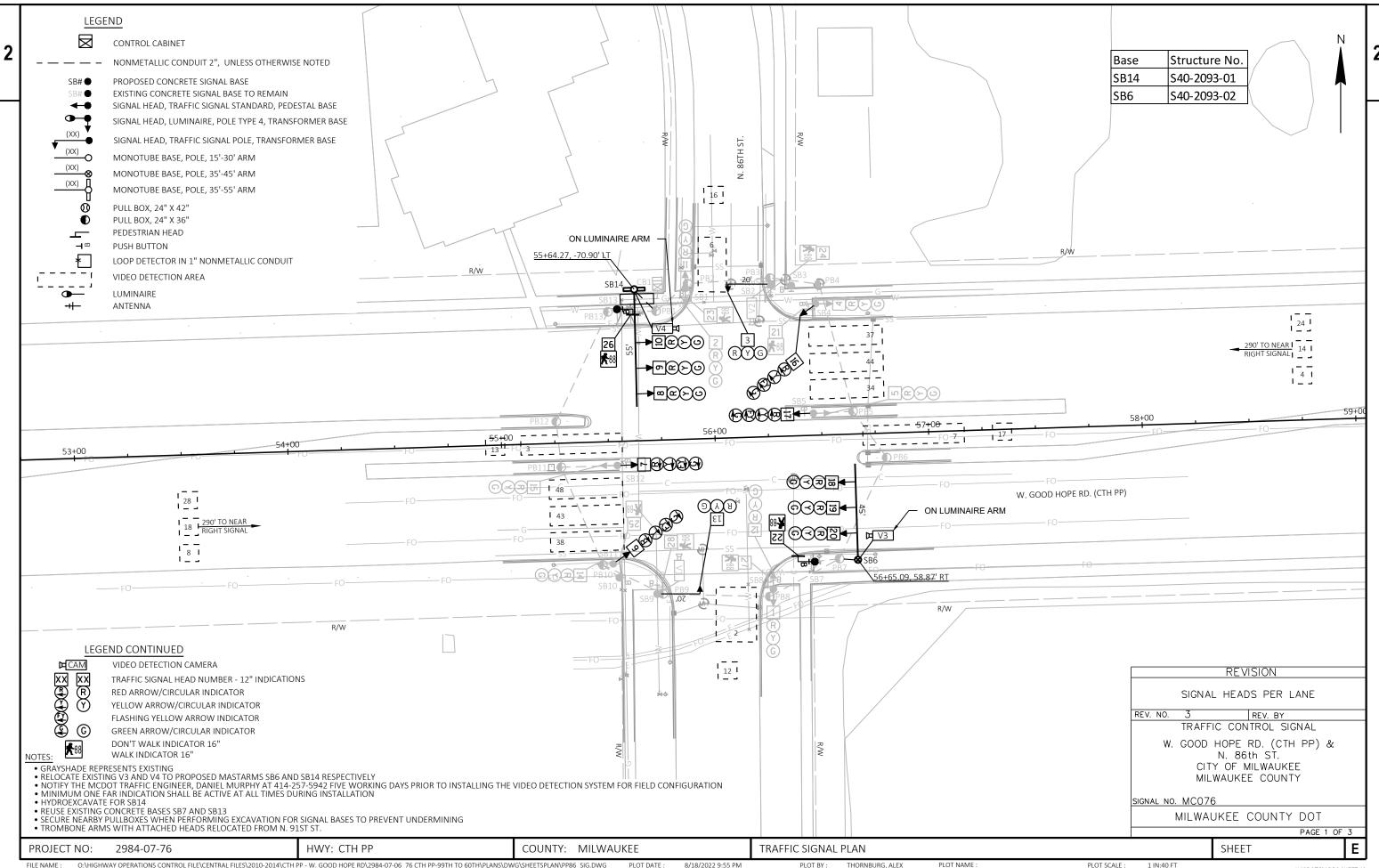
TRAFFIC SIGNAL PLAN

PLOT NAME :

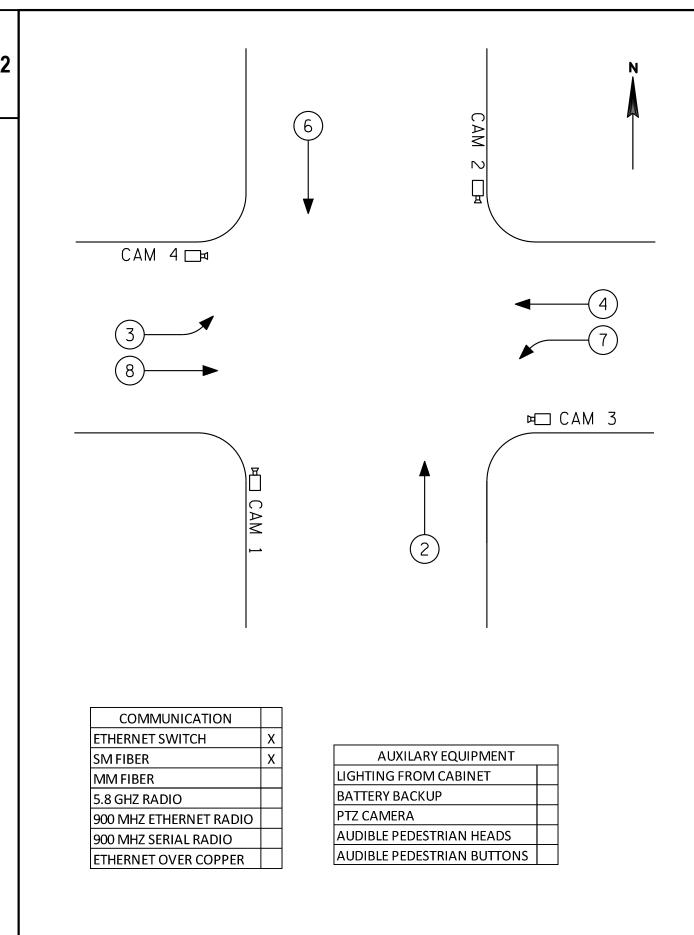
PLOT SCALE :

WISDOT/CADDS SHEET 42

Ε







	ſ	PHASES			OVERLAPS	
PHASE	VEHICLE	LEFT TURN TYPE	PED	OVLP	INCLUDES	OUTPUT
1				Α		
2	Χ		Χ	В		
3	Χ	FYA		C		
4	Χ		Χ	D		
5				Е		
6	Χ		Χ	ш	3 FY	10 Y
7	Χ	FYA		G		
8	Х		Χ	Н	7 FY	12 Y

REVISION

SIGNAL HEADS PER LANE

REV. NO. 3 REV. BY TRAFFIC CONTROL SIGNAL

W. GOOD HOPE RD. (CTH PP) & N. 86th SŤ. CITY OF MILWAUKEE MILWAUKEE COUNTY

SIGNAL NO. MCO76

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MILWAUKEE COUNTY DOT

PAGE 2 OF 3

WISDOT/CADDS SHEET 42

SHEET

COUNTY: MILWAUKEE TRAFFIC SIGNAL PLAN PROJECT NO: 2984-07-76 HWY: CTH PP O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH PP - W. GOOD HOPE RD\2984-07-06_76 CTH PP-99TH TO 60TH\PLANS\DWG\SHEETSPLAN\PP86_SIG.DWG PLOT DATE: 8/18/2022 9:55 PM PLOT BY: THORNBURG, ALEX PLOT NAME : PLOT SCALE :

PROJECT ID: 2984-07-76 INTERSECTION: W. GOOD HOPE RD. (CTH PP) & N. 86TH ST. SIGNAL WIRE COLOR BLK-BLACK RED-RED GRN-GREEN CODING WHT-WHITE BLU-BLUE ORG-ORANGE

							SIGNAL IN	DICATION WI	RE COLOR				PED BU	JTTONS
CB1 TO	# OF COND.	HEAD NO.	PHASE	RED	YELLOW	GREEN	<red></red>	<yellow></yellow>	<fl ylw=""></fl>	<green></green>	D/WALK	WALK		
SB1	* 12	2	2	RED	ORG	GRN								
		11	6	RED/BLK	ORG/BLK	GRN/BLK								
		23	4P								BLU	BLK		
SB2	* 12	3	2	RED	ORG	GRN								
		24	4P								BLU	BLK		
SB3	* 7	В	4P										GRN	WHT/BLK
SB4	12	4	4	RED	ORG	GRN								
		16	3				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		21	2P								BLU	BLK		
		В	2P										WHT/BLK	BLK/WHT
SB5	*12	5	4	RED	ORG	GRN								
		17	3				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		В	2P										WHT/BLK	BLK/WHT
SB6	12	18 / 19 / 20		RED	ORG	GRN								
SB7	7	22	2P								BLU	BLK		
		В	2P										GRN	WHT/BLK
SB8	* 12	1	2	RED	ORG	GRN								
		12	6	RED/BLK	ORG/BLK	GRN/BLK								
		27	8P								BLU	BLK		
		В	8P										GRN	WHT/BLK
SB9	* 12	13	6	RED	ORG	GRN								
		28	8P								BLU	BLK		
		В	8P										WHT/BLK	BLK/WHT
SB10	* 7	В	6P										GRN	WHT/BLK
SB11	12	14	8	RED	ORG	GRN								
		6	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		25	6P								BLU	BLK		
SB12	*12	15	8	RED	ORG	GRN								
		7	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		В	6P										WHT/BLK	BLK/WHT
SB13	12	26	6P								BLU	BLK		
		В	6P										WHT/BLK	BLK/WHT
SB14	12	8/9/10	4	RED	ORG	GRN								

- 1. DO NOT USE THE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR SIGNAL INDICATIONS.
- 2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
- * EXISTING SIGNAL WIRING TO REMAIN.

REVISION SIGNAL HEADS PER LANE REV. NO. 3 REV. BY TRAFFIC CONTROL SIGNAL W. GOOD HOPE RD. (CTH PP) & N. 86th SŤ. CITY OF MILWAUKEE MILWAUKEE COUNTY SIGNAL NO. MCO76 MILWAUKEE COUNTY DOT

PAGE 3 OF 3

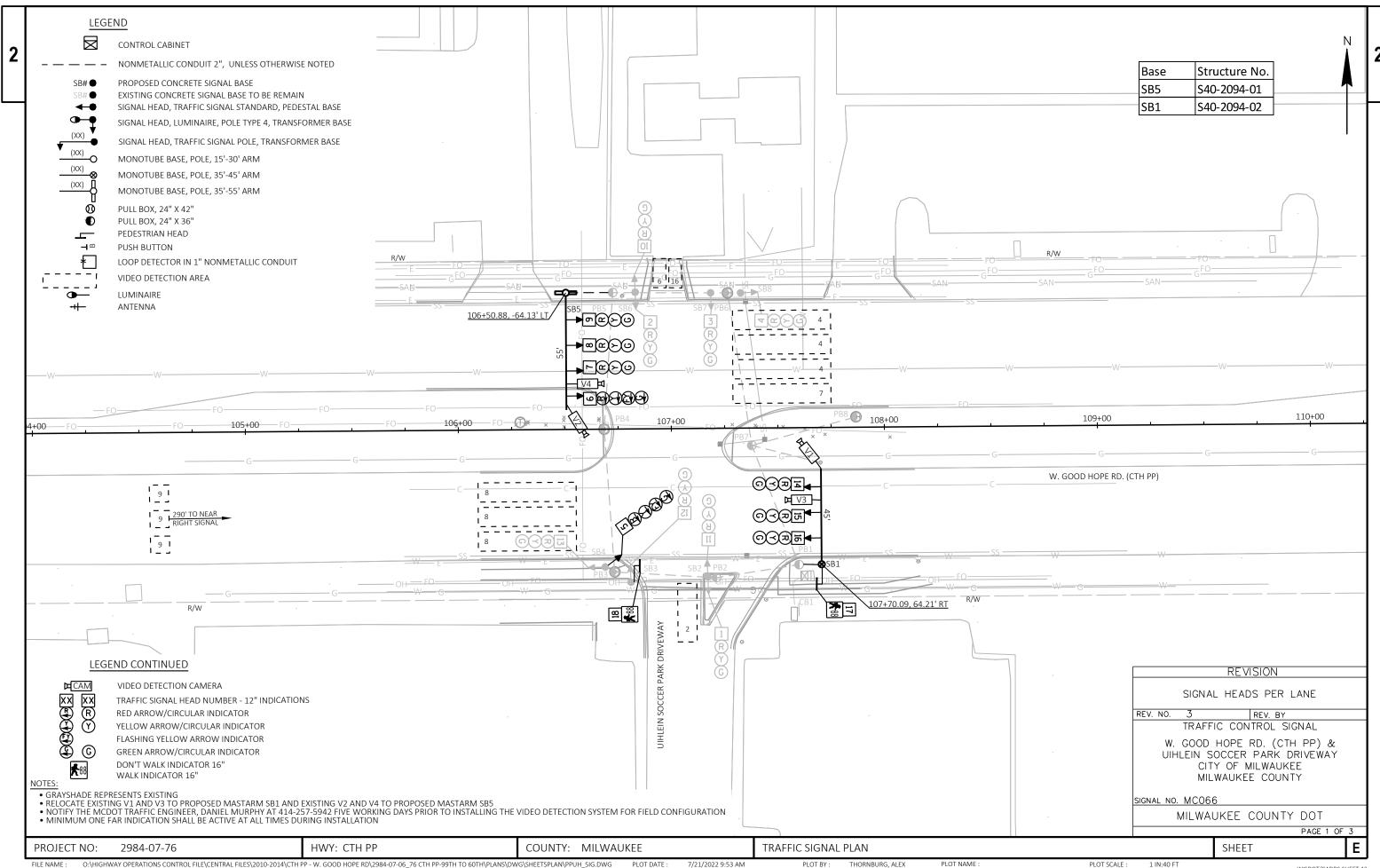
COUNTY: MILWAUKEE PROJECT NO: 2984-07-76 HWY: CTH PP

TRAFFIC SIGNAL PLAN

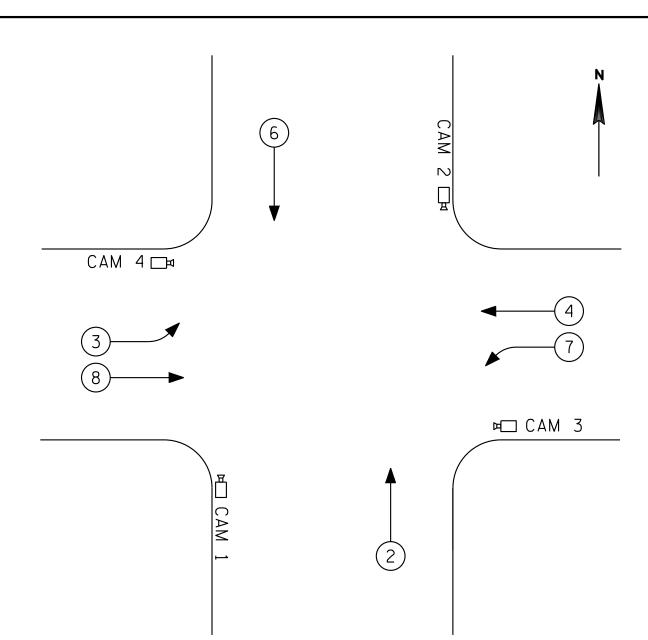
SHEET

PLOT NAME :

Ε







COMMUNICATION	
ETHERNET SWITCH	Х
SM FIBER	Х
MM FIBER	
5.8 GHZ RADIO	
900 MHZ ETHERNET RADIO	
900 MHZ SERIAL RADIO	
ETHERNET OVER COPPER	

2984-07-76

AUXILARY EQUIPMENT	
LIGHTING FROM CABINET	
BATTERY BACKUP	
PTZ CAMERA	
AUDIBLE PEDESTRIAN HEADS	
AUDIBLE PEDESTRIAN BUTTONS	

	1	PHASES		OVERLAPS				
PHASE	VEHICLE	LEFT TURN TYPE	PED	OVLP	INCLUDES	OUTPUT		
1				Α				
2	Χ			В				
3	Χ	FYA		C				
4	Χ			D				
5				Е				
6	Χ			F	3 FY	10 Y		
7	Х	FYA		G				
8	Х		Χ	Н	7 FY	12 Y		

REVISION

SIGNAL HEADS PER LANE

REV. NO. 3 REV. BY

> W. GOOD HOPE RD. (CTH PP) & UIHLEIN SOCCER PARK DRIVEWAY
> CITY OF MILWAUKEE

MILWAUKEE COUNTY

TRAFFIC CONTROL SIGNAL

SIGNAL NO. MC066

MILWAUKEE COUNTY DOT

PAGE 2 OF 3

TRAFFIC SIGNAL PLAN

PLOT NAME :

SHEET

PROJECT NO:

COUNTY: MILWAUKEE

PROJECT ID:	2984-07-76
INTERSECTION:	W. GOOD HOPE RD. (CTH PP) & UIHLEIN SOCCER PARK

SIGNAL WIRE COLOR	BLK-BLACK	RED-RED	GRN-GREEN
CODING	WHT-WHITE	BLU-BLUE	ORG-ORANGE

							SIGNAL IN	IDICATION WIF	RE COLOR				PED BI	UTTONS
CB1 TO	# OF COND.	HEAD NO.	PHASE	RED	YELLOW	GREEN	<red></red>	<yellow></yellow>	<fl ylw=""></fl>	<green></green>	D/WALK	WALK		
SB1	12	14 / 15 / 16	8	RED	ORG	GRN								
		17	8P								BLU	BLK		
SB2	* 12	1	2	RED	ORG	GRN								
		11	6	RED/BLK	ORG/BLK	GRN/BLK								
SB3	12	12	6	RED	ORG	GRN								
		18	8P								BLU	BLK		
SB4	12	13	8	RED	ORG	GRN								
		5	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
SB5	12	7/8/9	4	RED	ORG	GRN								
		6	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
SB6	* 12	2	2	RED	ORG	GRN								
		10	6	RED/BLK	ORG/BLK	GRN/BLK								
SB7	* 7	3	2	RED	ORG	GRN								
SB8	* 7	4	4	RED	ORG	GRN								

NOTES:

- 1. DO NOT USE THE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR SIGNAL INDICATIONS.
- 2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.

COUNTY: MILWAUKEE

* EXISTING SIGNAL WIRING TO REMAIN.

REVISION SIGNAL HEADS PER LANE REV. NO. 3 REV. BY TRAFFIC CONTROL SIGNAL W. GOOD HOPE RD. (CTH PP) & UIHLEIN SOCCER PARK DRIVEWAY CITY OF MILWAUKEE MILWAUKEE COUNTY SIGNAL NO. MC066

MILWAUKEE COUNTY DOT

SHEET

PAGE 3 OF 3

PROJECT NO:

HWY: CTH PP

TRAFFIC SIGNAL PLAN

PLOT NAME :

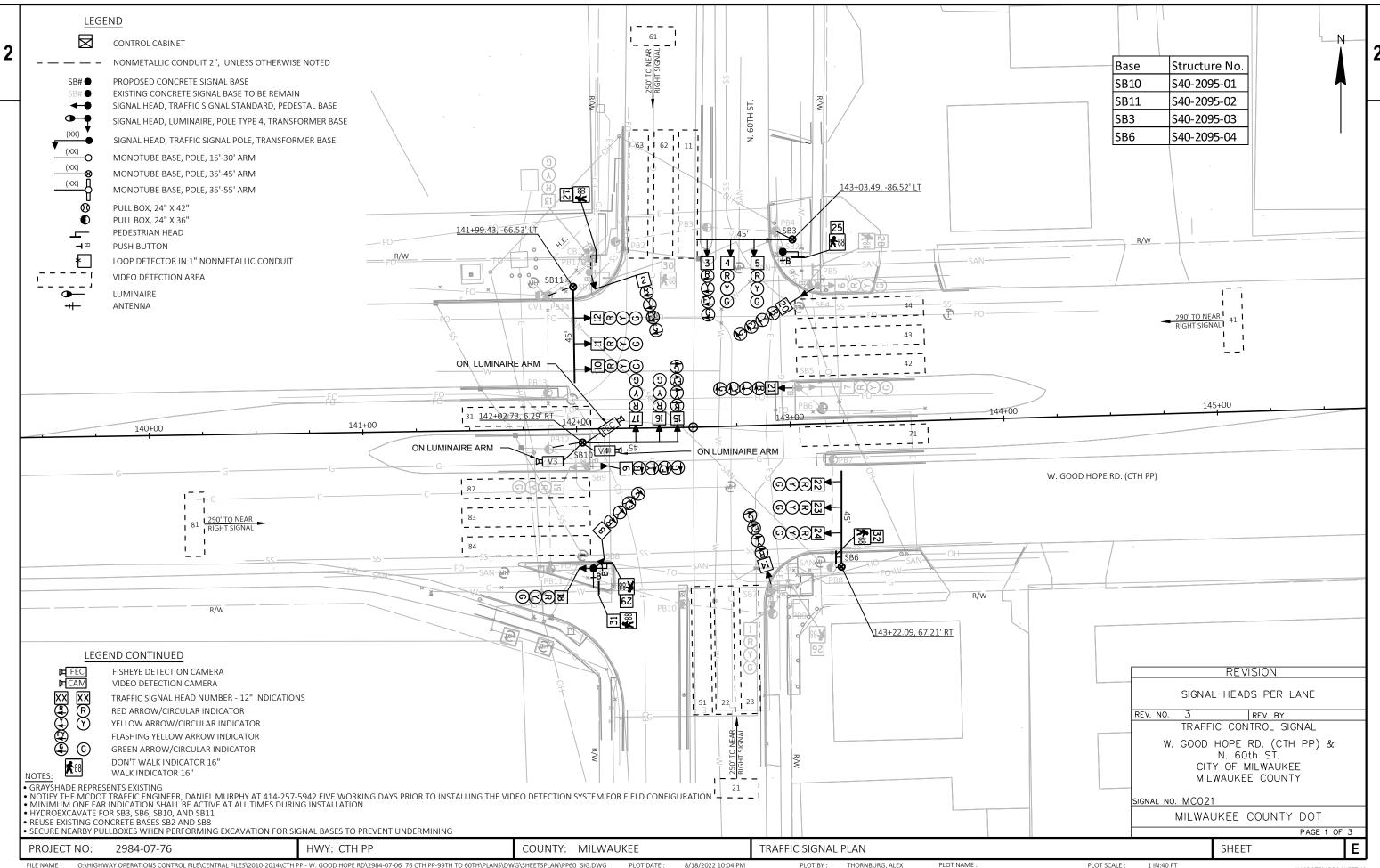
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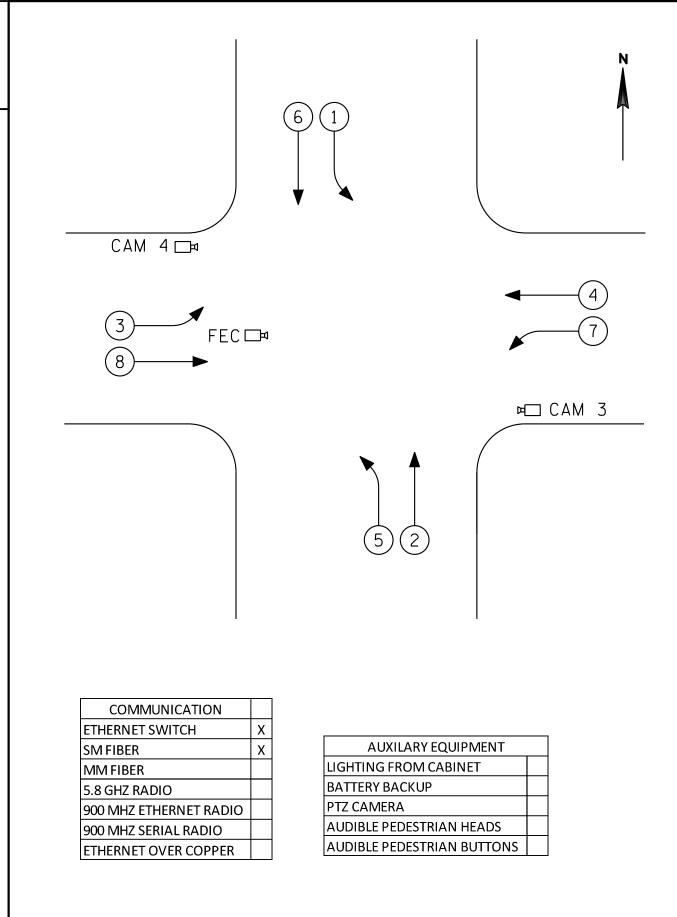
O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH PP - W. GOOD HOPE RD\2984-07-06_76 CTH PP-99TH TO 60TH\PLANS\DWG\SHEETSPLAN\PPUH_SIG.DWG PLOT DATE:

PLOT BY: THORNBURG, ALEX

PLOT SCALE : ##########







	!	PHASES	OVERLAPS				
PHASE	VEHICLE	LEFT TURN TYPE	PED	OVLP	INCLUDES	OUTPUT	
1	Х	FYA		Α			
2	Х		Χ	В			
3	Х	FYA		C			
4	Х		Χ	D			
5	Х	FYA		Е	1 FY	9 Y	
6	Х		Χ	F	3 FY	10 Y	
7	Х	FYA		G	5 FY	11 Y	
8	Х		Χ	Η	7 FY	12 Y	

REVISION

SIGNAL HEADS PER LANE

REV. NO. 3 REV. BY

TRAFFIC CONTROL SIGNAL W. GOOD HOPE RD. (CTH PP) & N. 60th SŤ. CITY OF MILWAUKEE MILWAUKEE COUNTY

SIGNAL NO. MCO21

MILWAUKEE COUNTY DOT

PAGE 2 OF 3

TRAFFIC SIGNAL PLAN

SHEET

FILE NAME :

O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH PP - W. GOOD HOPE RD\2984-07-06_76 CTH PP-99TH TO 60TH\PLANS\DWG\SHEETSPLAN\PP60_SIG.DWG PLOT DATE : 8/18/2022 10:04 PM

HWY: CTH PP

COUNTY: MILWAUKEE

PLOT NAME :

PLOT SCALE :

PROJECT NO: 2984-07-76

2

PROJECT ID: 2984-07-76 INTERSECTION: W. GOOD HOPE RD. (CTH PP) & N. 60TH ST. SIGNAL WIRE COLOR | BLK-BLACK | RED-RED GRN-GREEN WHT-WHITE BLU-BLUE ORG-ORANGE CODING

				SIGNAL INDICATION WIRE COLOR								PED BUTTONS		
CB1 TO	# OF COND.	HEAD NO.	PHASE	RED	YELLOW	GREEN	<red></red>	<yellow></yellow>	<fl ylw=""></fl>	<green></green>	D/WALK	WALK		
SB1	15	13	6	RED	ORG	GRN								
		2	5				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		27	4P								BLU	BLK		
		30	6P								BLU/WHT	GRN/WHT		
		В	4P										WHT/BLK	BLK/WHT
		В	6P										RED/WHT	BLK/WHT
SB2 *7	*7	25	2P								BLU	BLK		
		В	4P										GRN	WHT/BLK
SB3 12	12	4/5	2	RED	ORG	GRN								
		3	5				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
SB4 12	12	6	4	RED	ORG	GRN								
		20	3				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		28	4P								BLU	BLK		
		В	2P										WHT/BLK	BLK/WHT
SB5 *12	*12	7	4	RED	ORG	GRN								
		21	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		В	2P										WHT/BLK	BLK/WHT
SB6	12	22 / 23 / 24		RED	ORG	GRN								
		32	8P								BLU	BLK		
SB7	*15	1	2	RED	ORG	GRN								
		14	1				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		26	2P								BLU	BLK		
		В	2P										WHT/BLK	BLK/WHT
		В	8P										GRN/WHT	BLK/WHT
SB8	15	18	8	RED	ORG	GRN								
		8	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		29	6P								BLU	BLK		
		31	8P								BLU/WHT	GRN/WHT		
		В	6P										WHT/BLK	BLK/WHT
		В	8P										RED/WHT	BLK/WHT
SB9	*12	19	8	RED	ORG	GRN								
		9	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		В	6P										WHT/BLK	BLK/WHT
SB10	12	16 / 17	6	RED	ORG	GRN								
		15	1				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
SB11	12	10 / 11 / 12	4	RED	ORG	GRN								

NOTES:

- 1. DO NOT USE THE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR SIGNAL INDICATIONS.
- 2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
- * EXISTING SIGNAL WIRING TO REMAIN.

REVISION SIGNAL HEADS PER LANE

REV. NO. 3 REV. BY TRAFFIC CONTROL SIGNAL

> W. GOOD HOPE RD. (CTH PP) & N. 60th SŤ. CITY OF MILWAUKEE MILWAUKEE COUNTY

SIGNAL NO. MCO21

MILWAUKEE COUNTY DOT

PAGE 3 OF 3

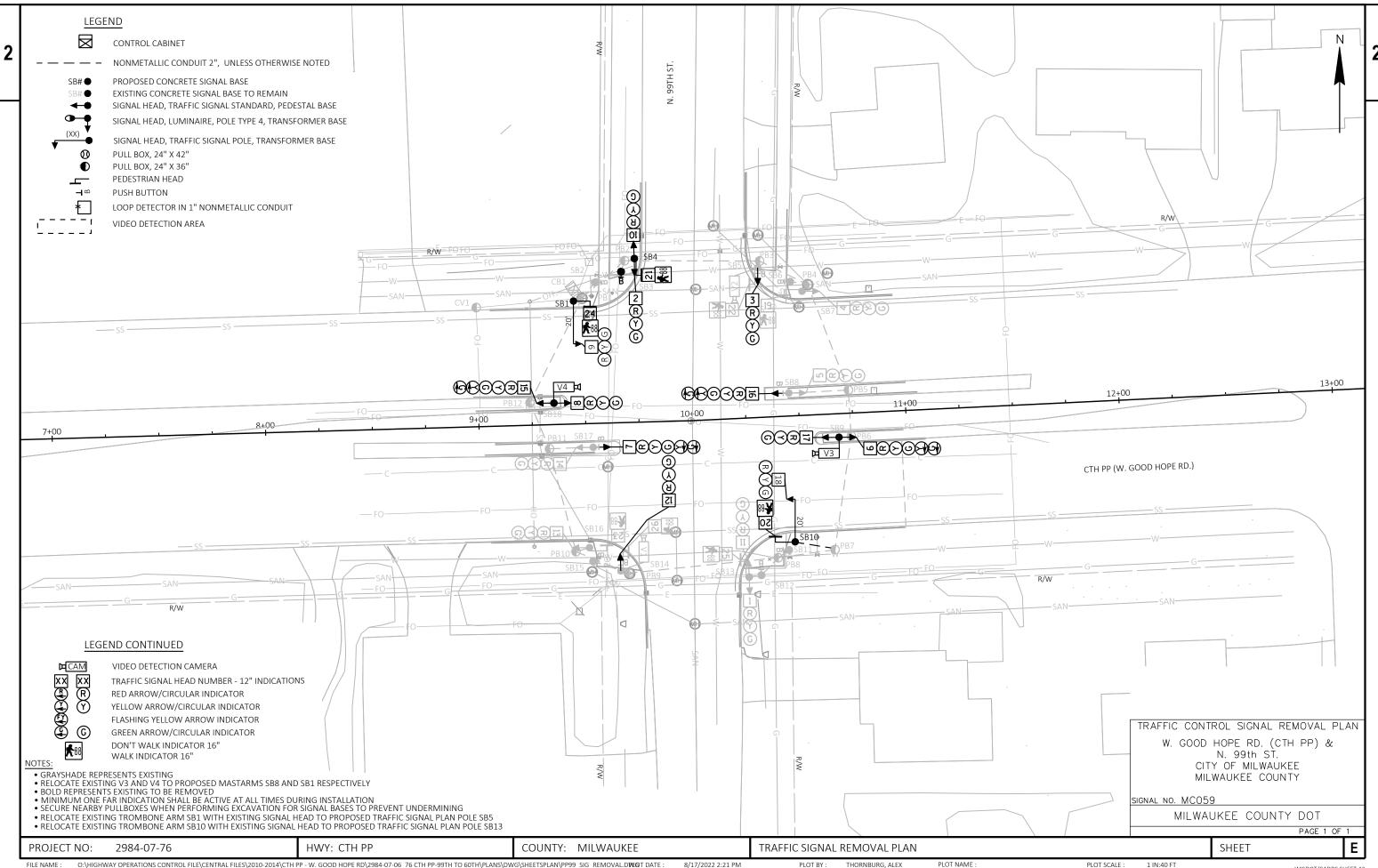
COUNTY: MILWAUKEE PROJECT NO: 2984-07-76 HWY: CTH PP

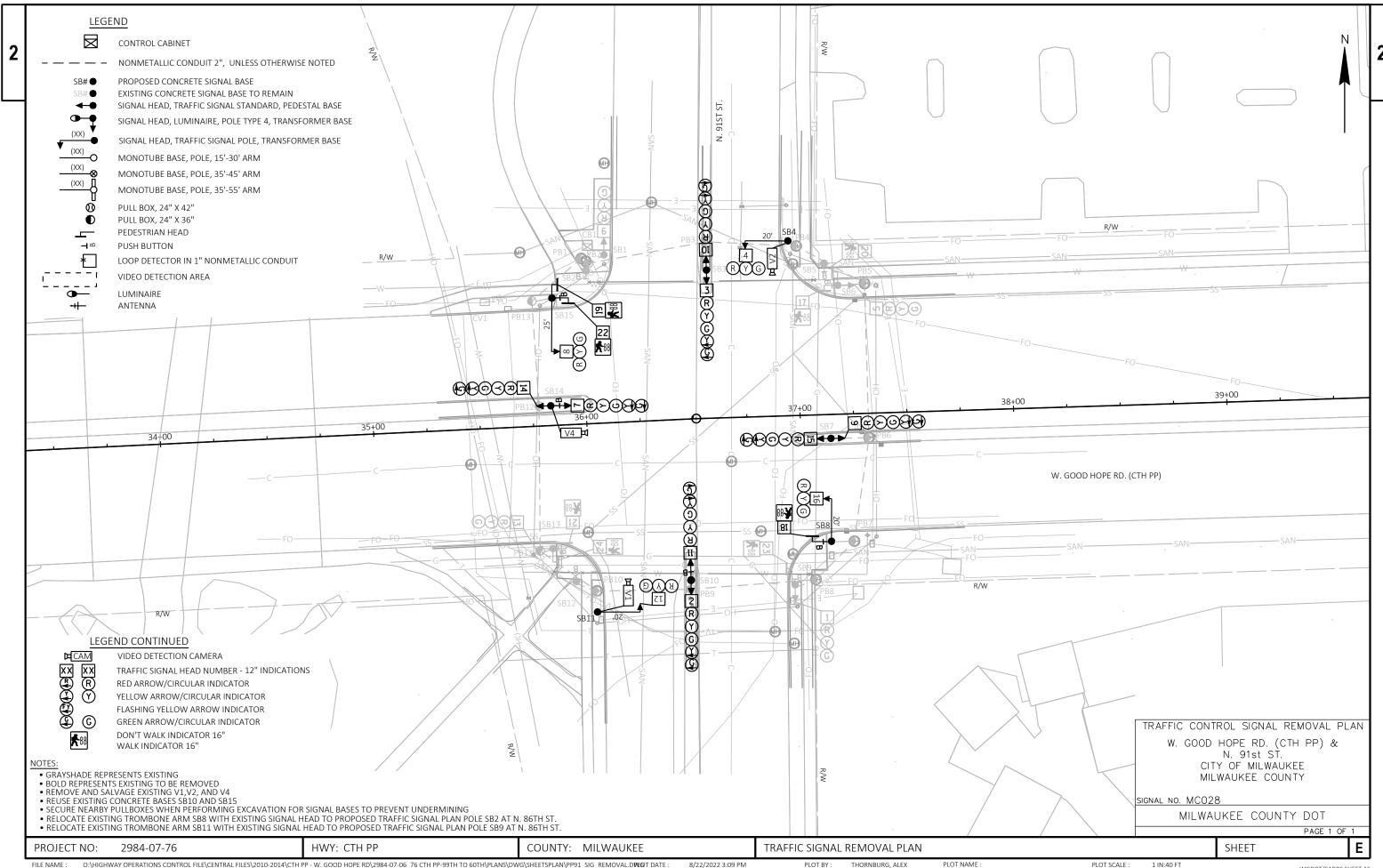
TRAFFIC SIGNAL PLAN

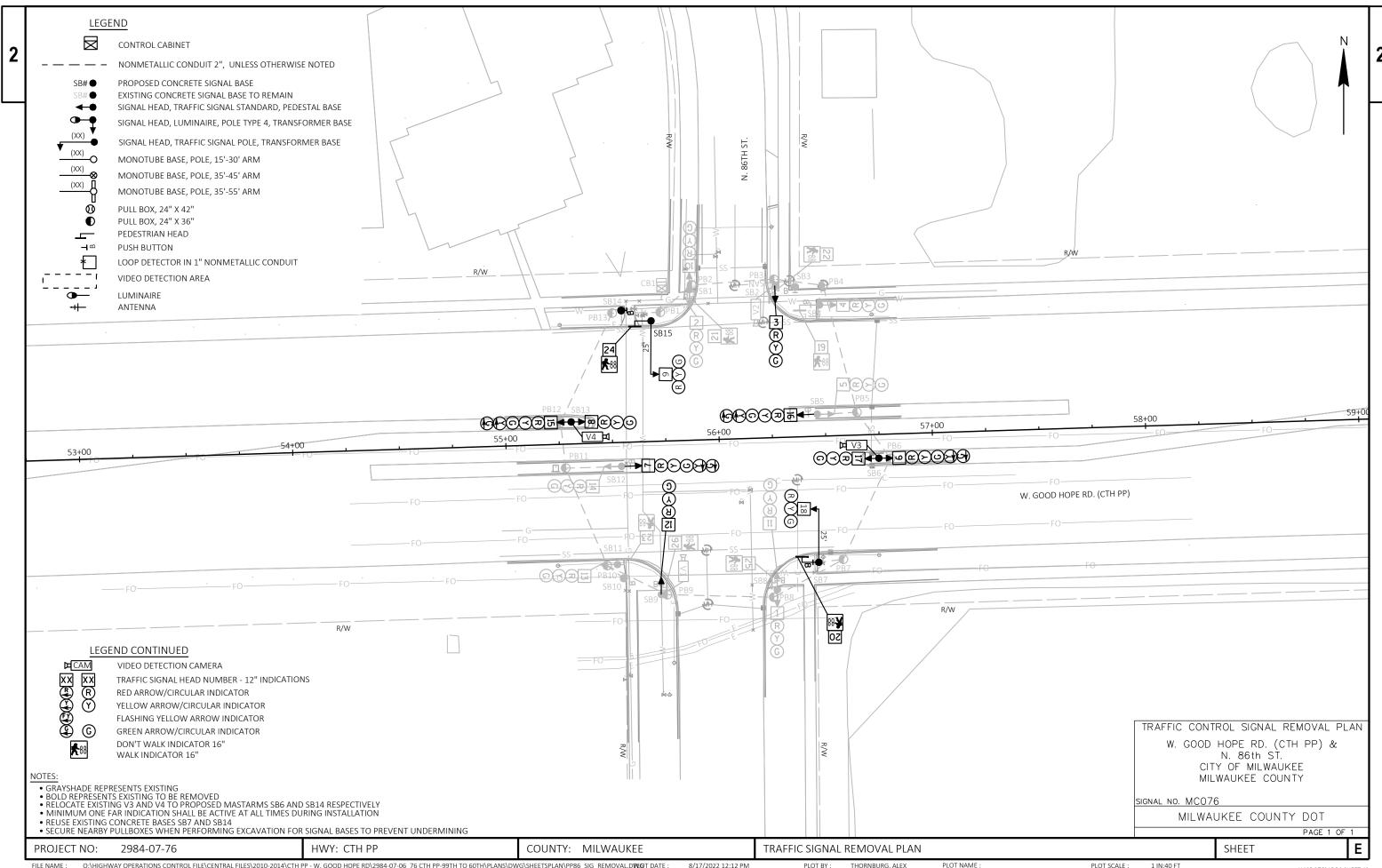
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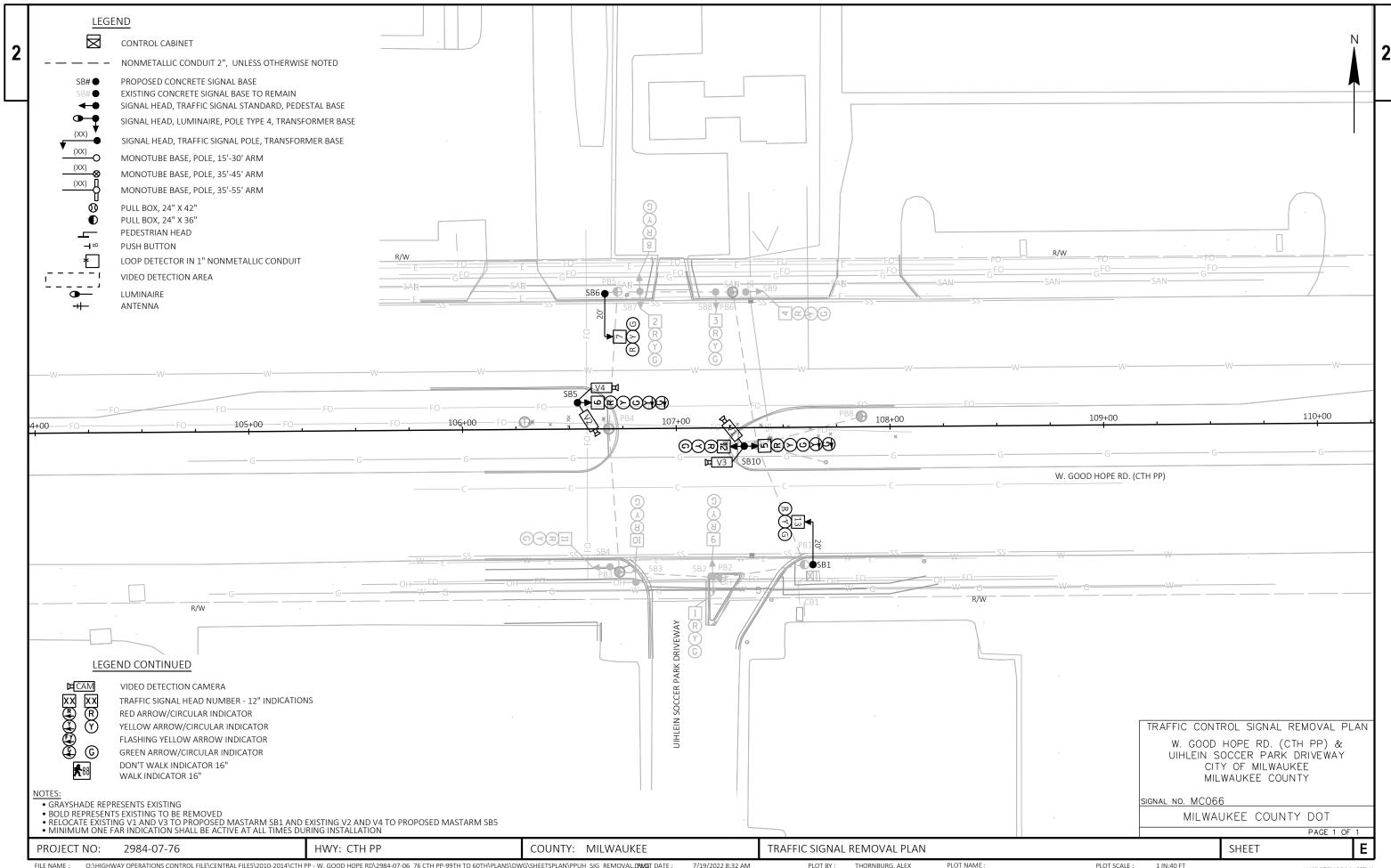
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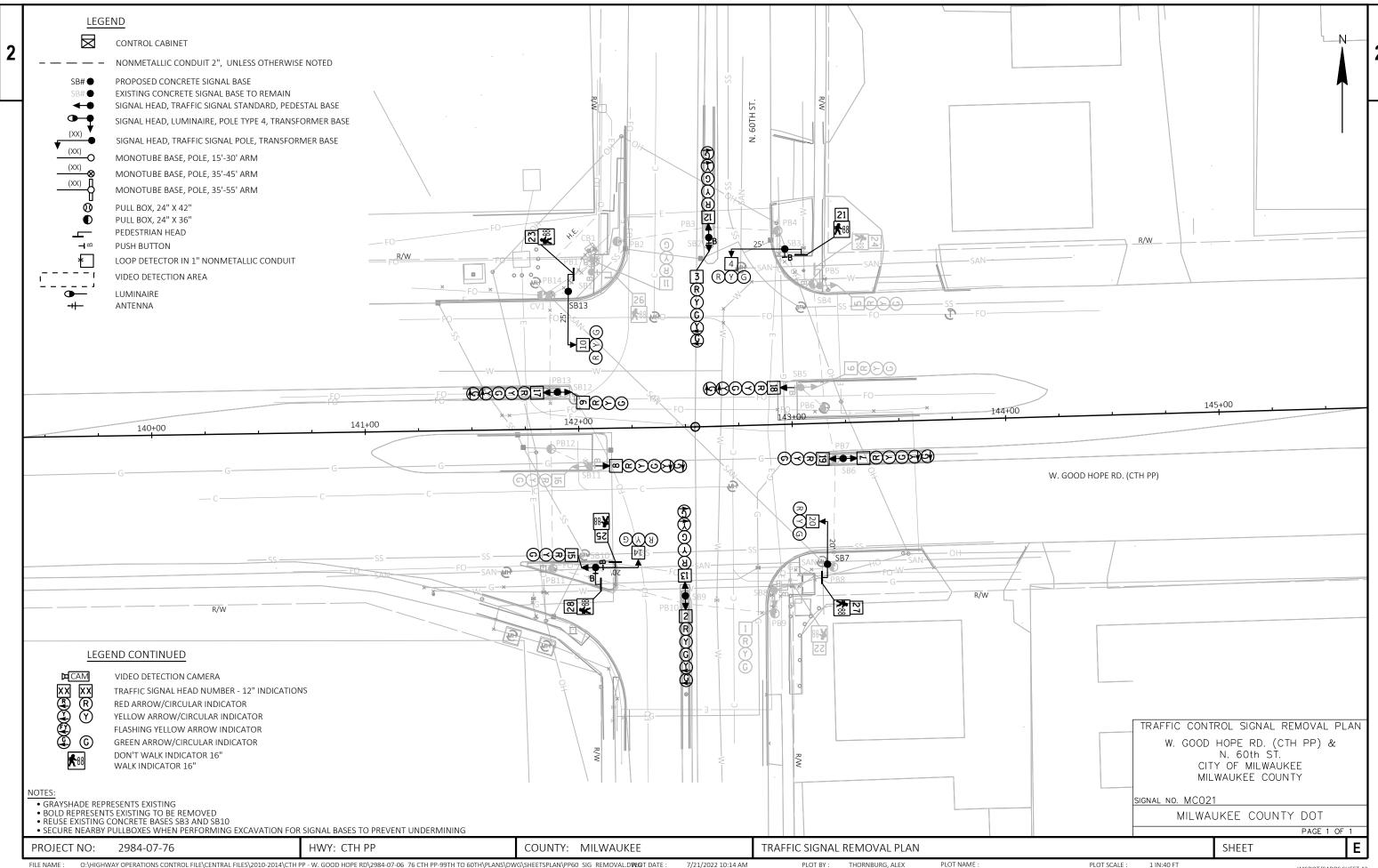
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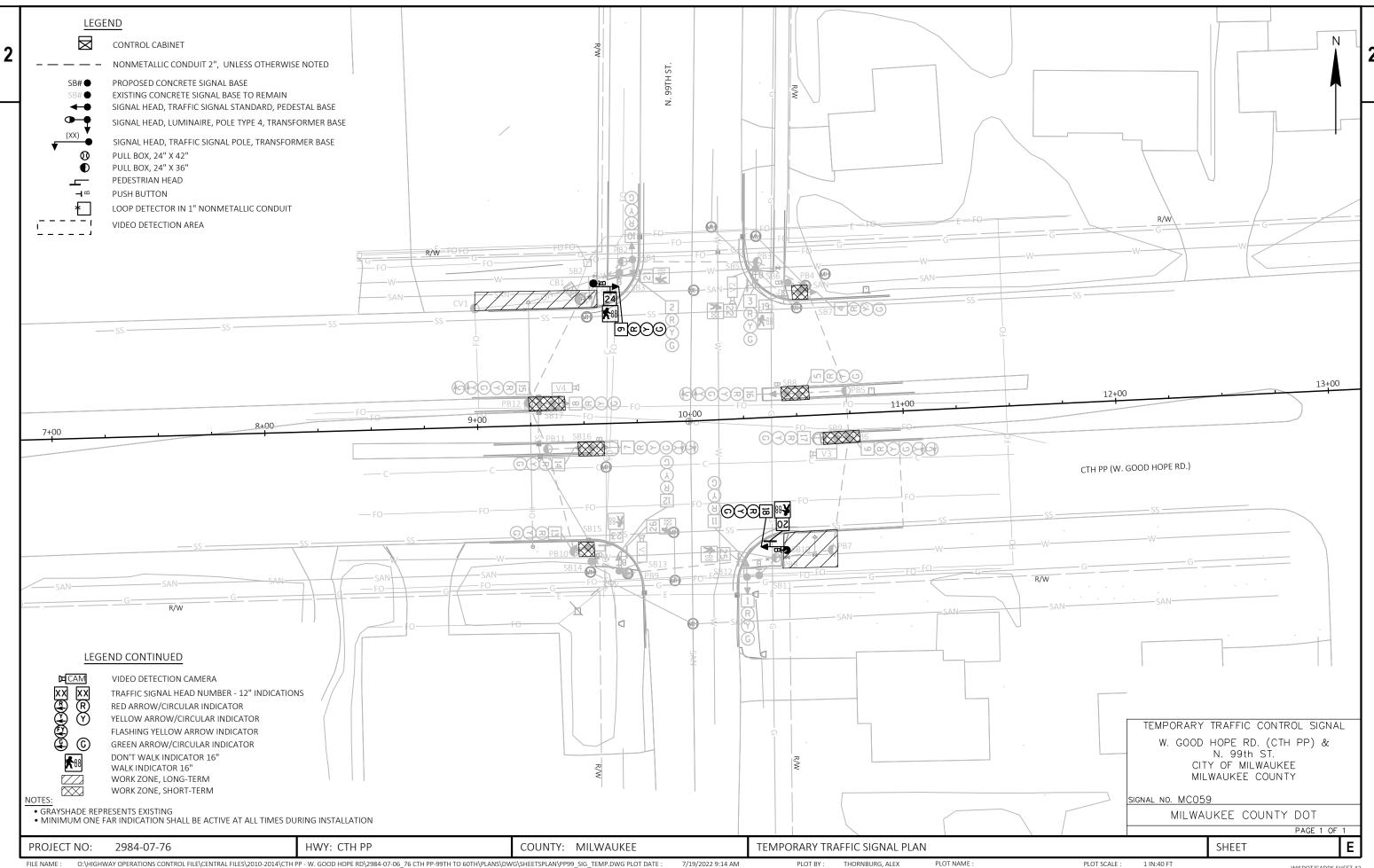


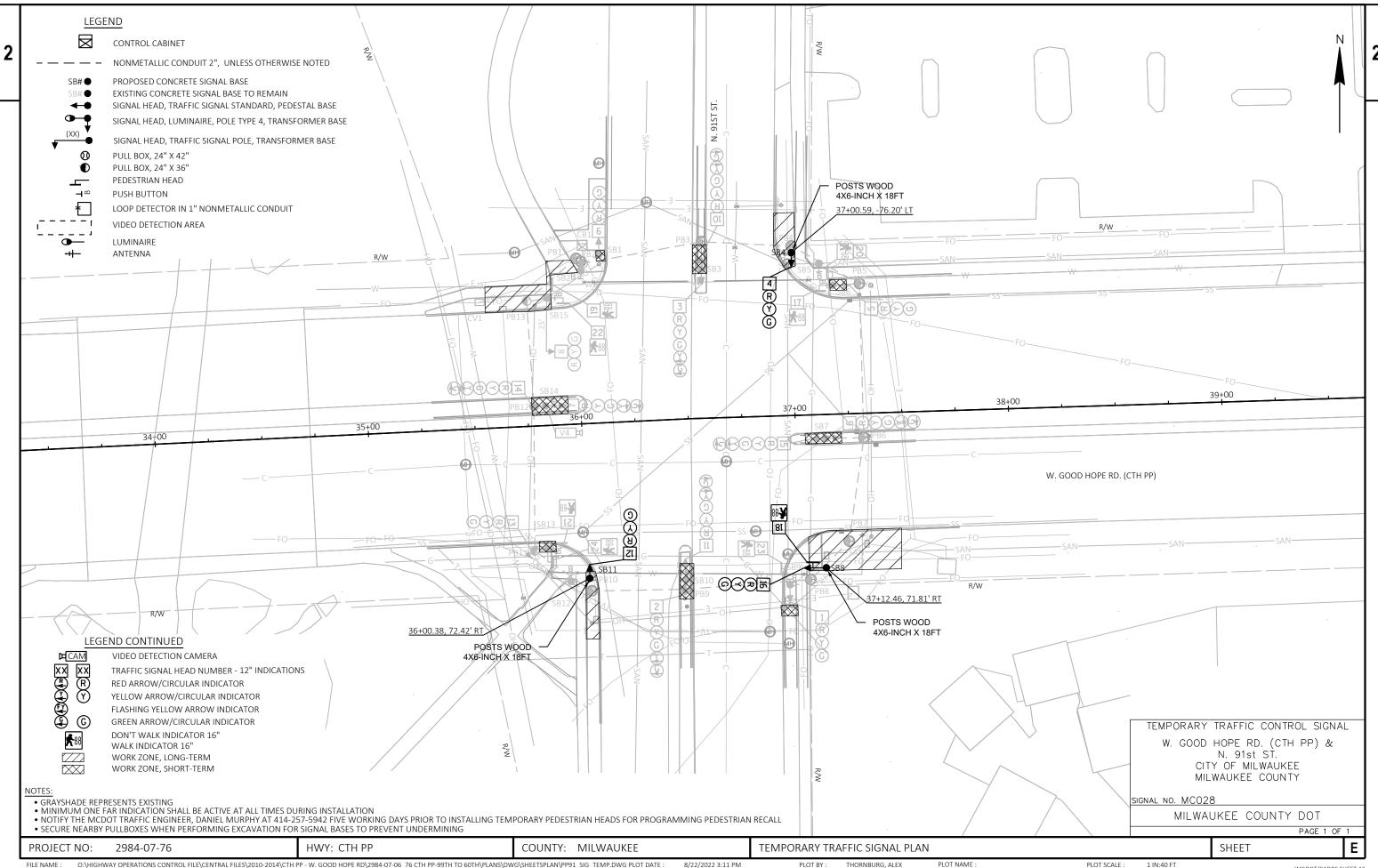


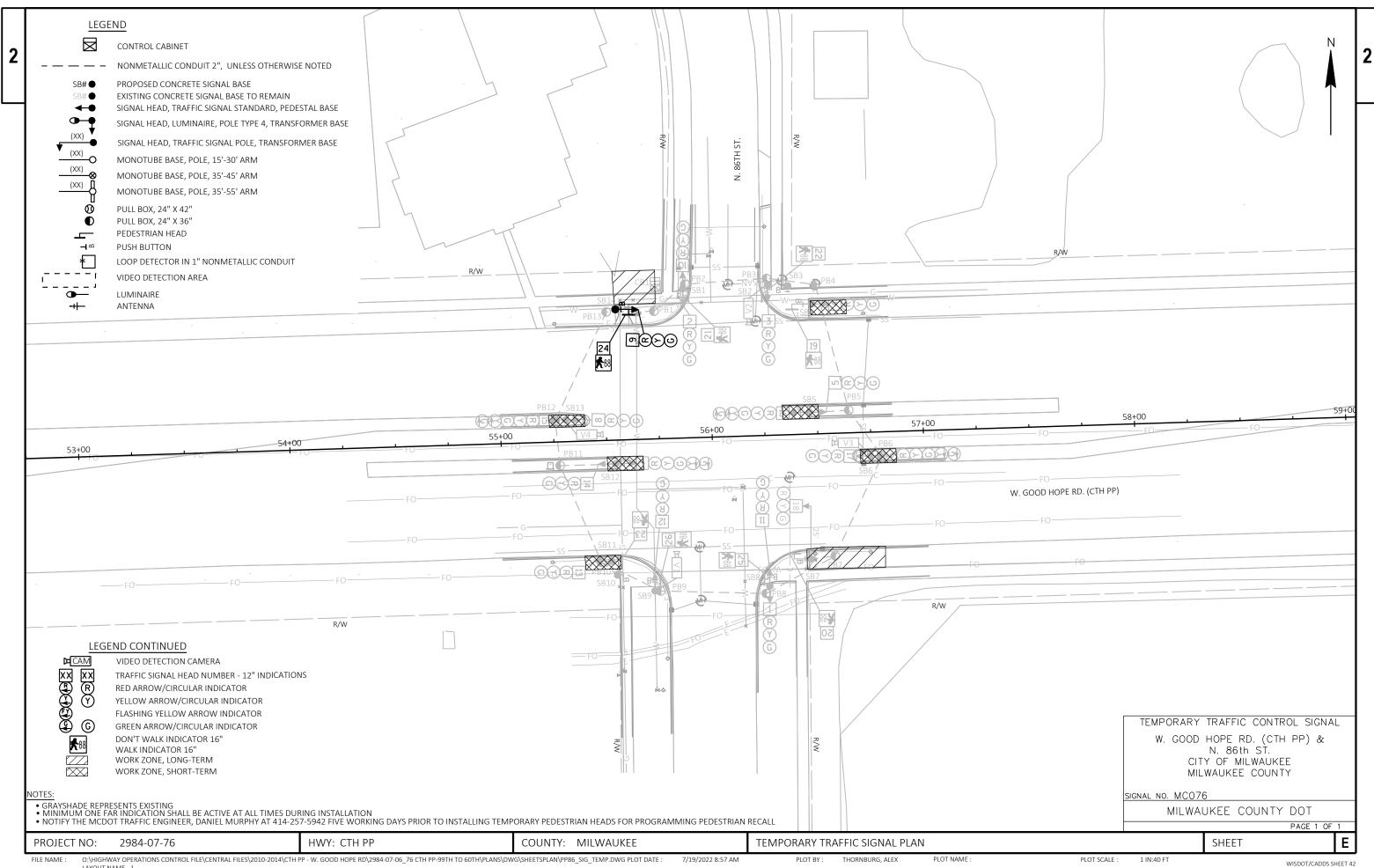


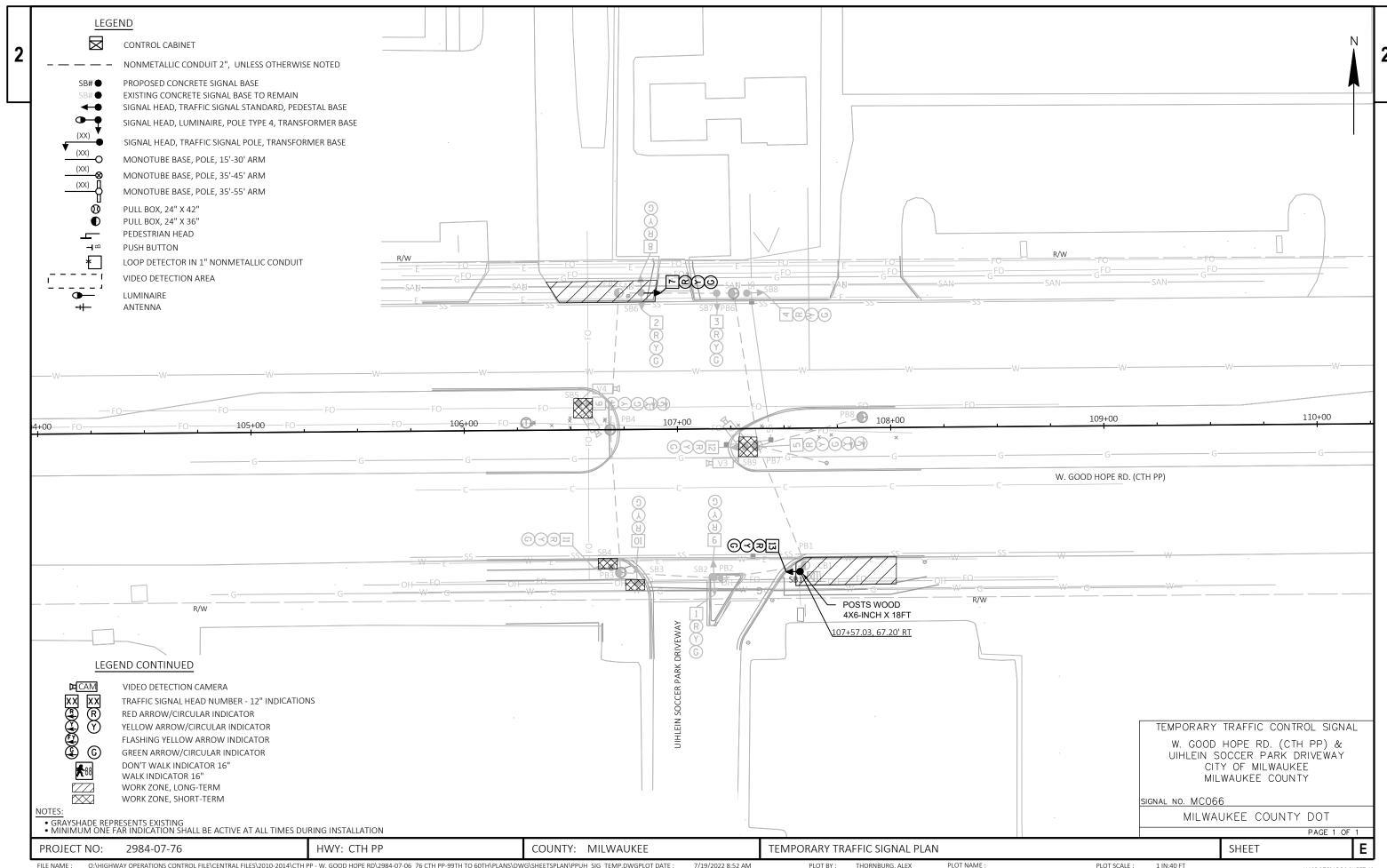


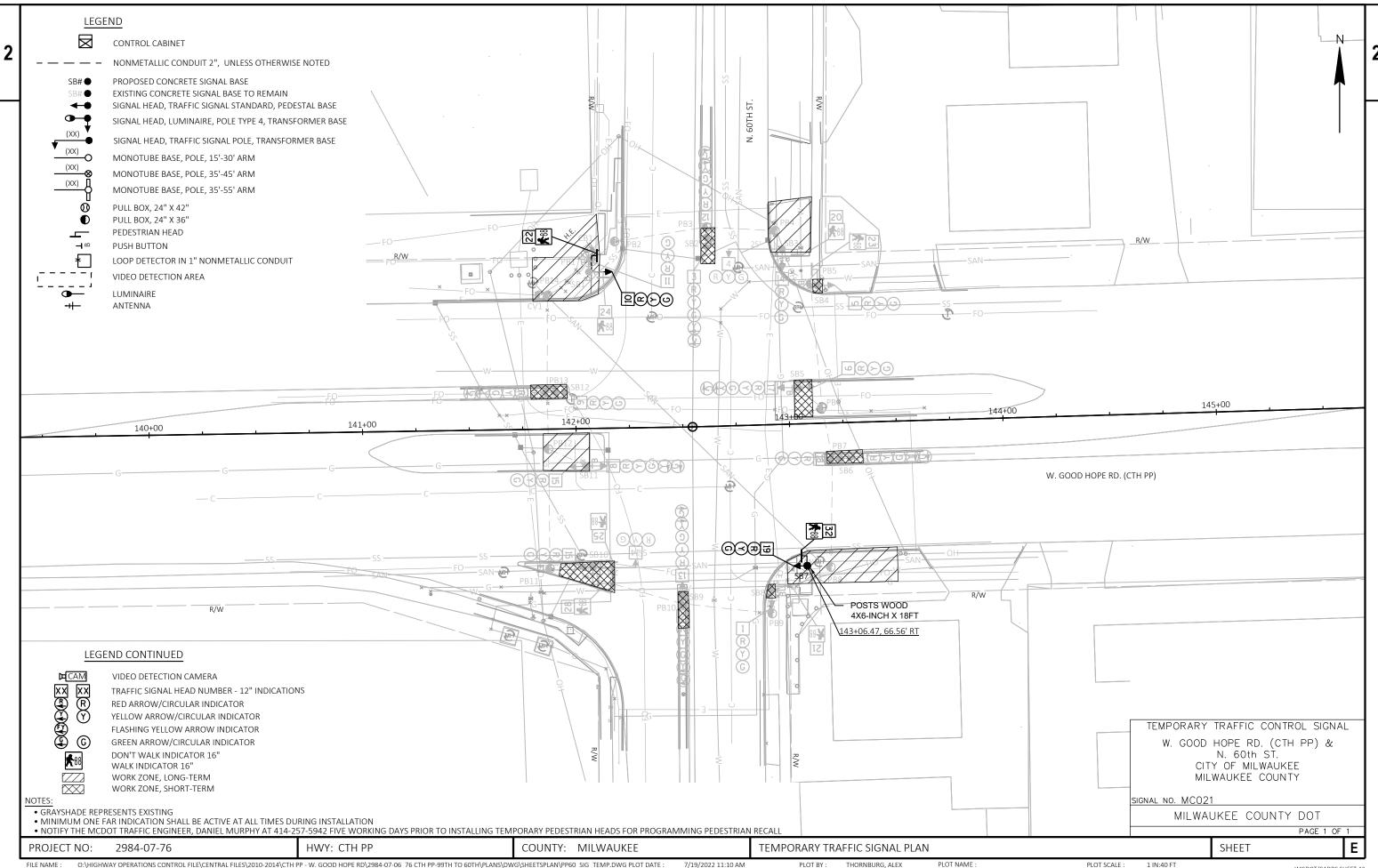












LEGEND

- TYPE III BARRICADE WITH TWO TYPE A LIGHTS (FLASHING)
- TYPE III BARRICADE WITH ATTACHED SIGN AND TWO TYPE A WARNING LIGHT (FLASHING)
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT

WORK ZONE, LONG-TERM (SEE NOTE 1 BELOW)

WORK ZONE, SHORT-TERM (SEE NOTE 2 BELOW)

DIRECTION OF TRAFFIC

PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PEDESTRIAN CURB RAMP WITH TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD

TEMPORARY PEDESTRIAN SURFACE MATTING. 5FT WIDE

TEMPORARY PAVEMENT MARKING REMOVABLE 4-INCH TAPE (WHITE)

- 1. FOR LONG-TERM WORK ZONE TRAFFIC CONTROL. REFER TO THE TRAFFIC CONTROL PLANS FOR DEVICE PLACEMENT AND LAYOUTS.
- 2. FOR SHORT-TERM WORK ZONE TRAFFIC CONTROL, REFER TO SDD TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY FOR DEVICE PLACEMENT AND LAYOUTS. SHORT-TERM WORK ZONE LANE CLOSURES CAN BE COMPLETE BETWEEN THE HOURS OF 9AM-3PM.
- 3. A MINIMUM OF 2 HEADS PER PHASE AND PER APPROACH MUST REMAIN OPERATIONAL DURING TRAFFIC SIGNAL INSTALLATIONS AND REMOVALS.
- 4. A MINIMUM OF 3 QUADRANTS PER INTERSECTION MUST REMAIN OPEN AND ACCESSIBLE TO PEDESTRIANS TO TRAVERSE AN INTERSECTION DURING CONSTRUCTION. REFER TO SDD TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION FOR DEVICE PLACEMENT AND LAYOUT FOR SIDEWALK CLOSURES. NOTIFY THE MCDOT TRAFFIC ENGINEER, DANIEL MURPHY AT 414-257-5942 FIVE WORKING DAYS PRIOR TO CONSTRUCTION TO PROGRAM PEDESTRIAN RECALL.
- 5. MCTS BUS STOPS ARE TO REMAIN OPEN DURING CONSTRUCTION.
- 6. FOR ALL WORK NEXT TO SIDEWALKS:
 - -ALL WORK OPERATIONS MUST BE PROTECTED NEXT TO SIDEWALKS.
 - -ALL DROP-OFFS MUST BE PROTECTED FROM SIDEWALKS AS WELL.
 - -ALL EQUIPMENT USED FOR PROTECTION MUST BE MUTCD, MASH, AND/OR NCHRP 350
- 7. ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

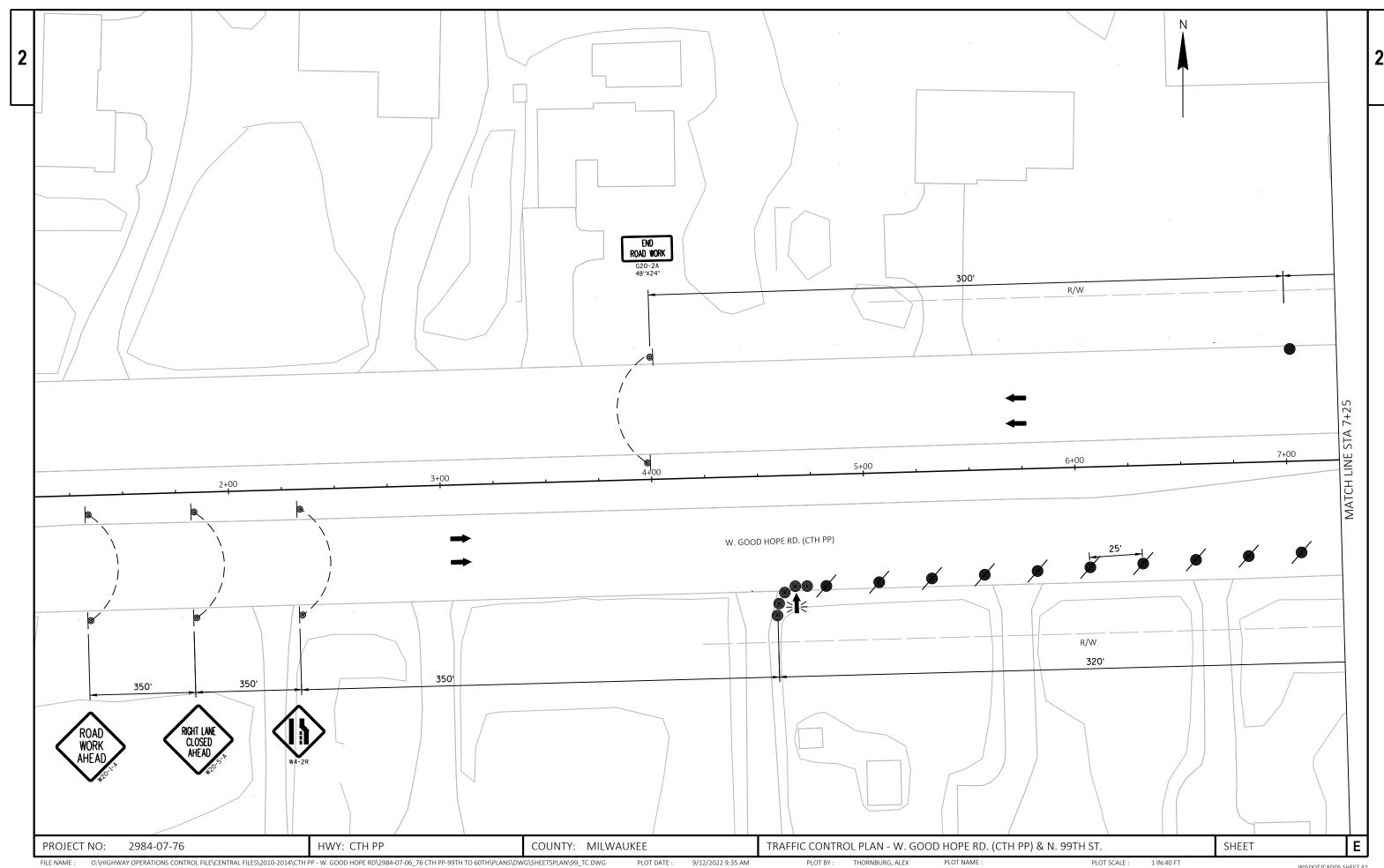
PROJECT NO: 2984-07-76

HWY: CTH PP

COUNTY: MILWAUKEE

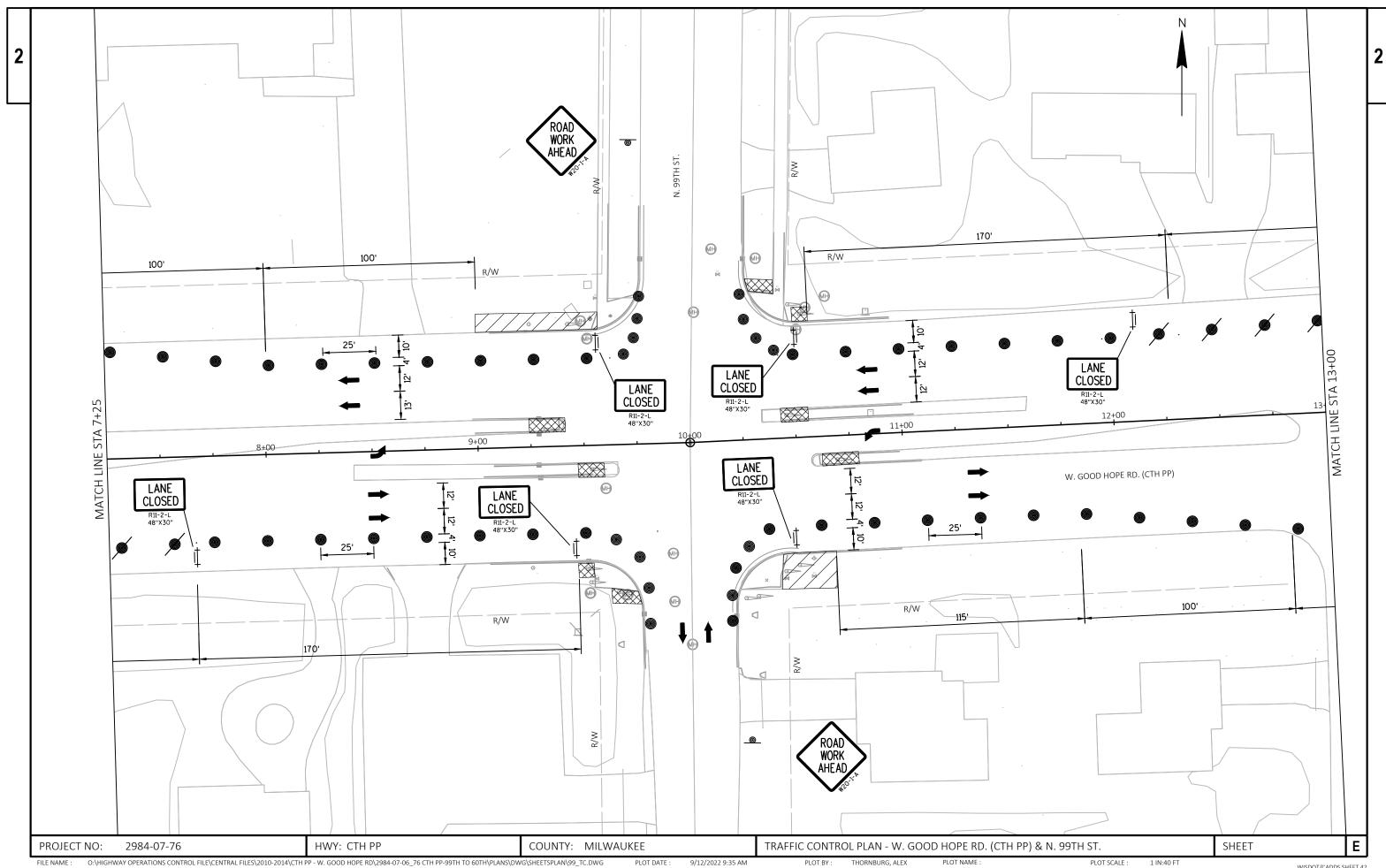
TRAFFIC CONTROL PLAN LEGEND

SHEET



O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH PP - W. GOOD HOPE RD\2984-07-06_76 CTH PP-99TH TO 60TH\PLANS\DWG\SHEETSPLAN\99_TC.DWG LAYOUT NAME - 1

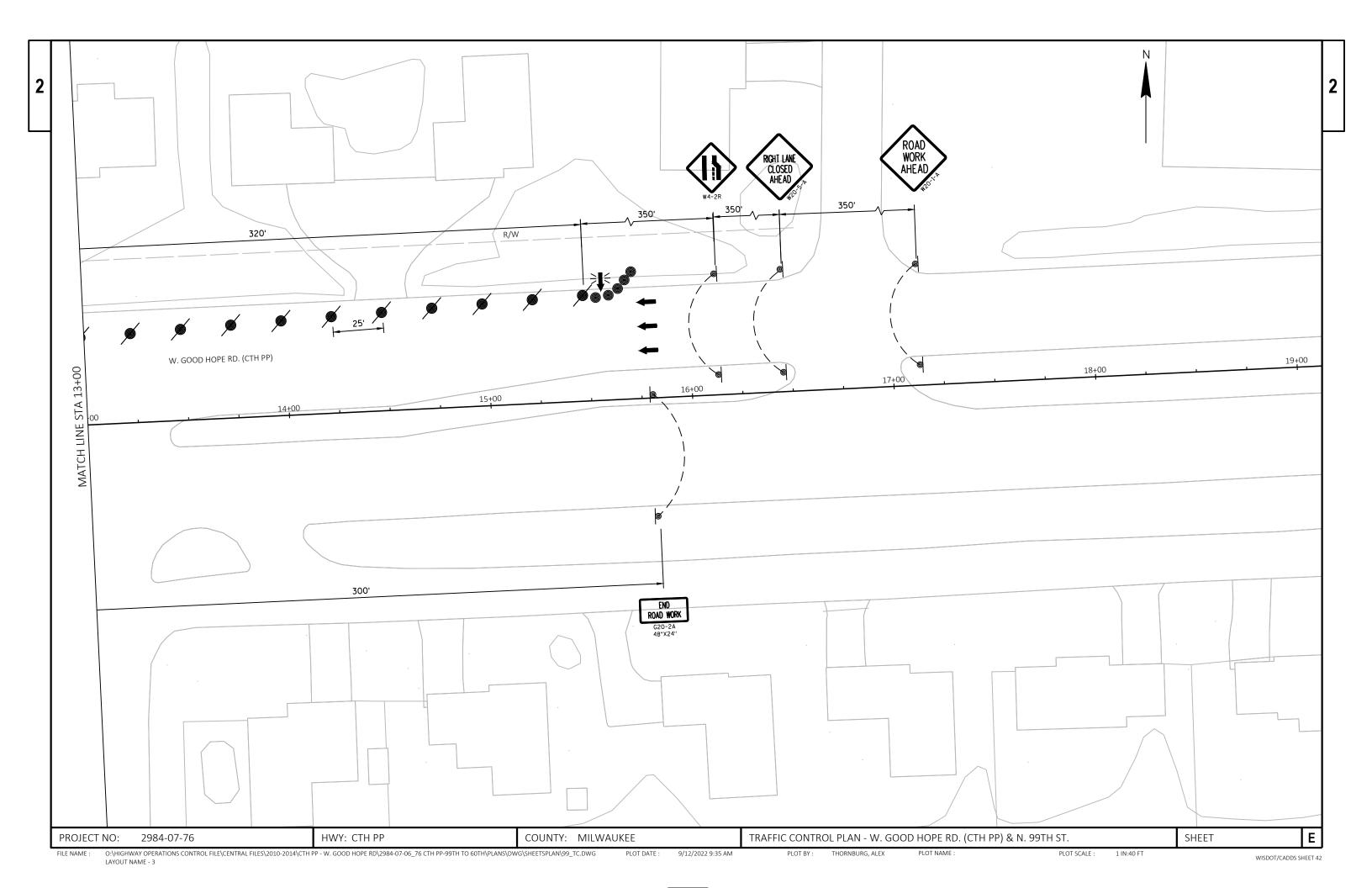
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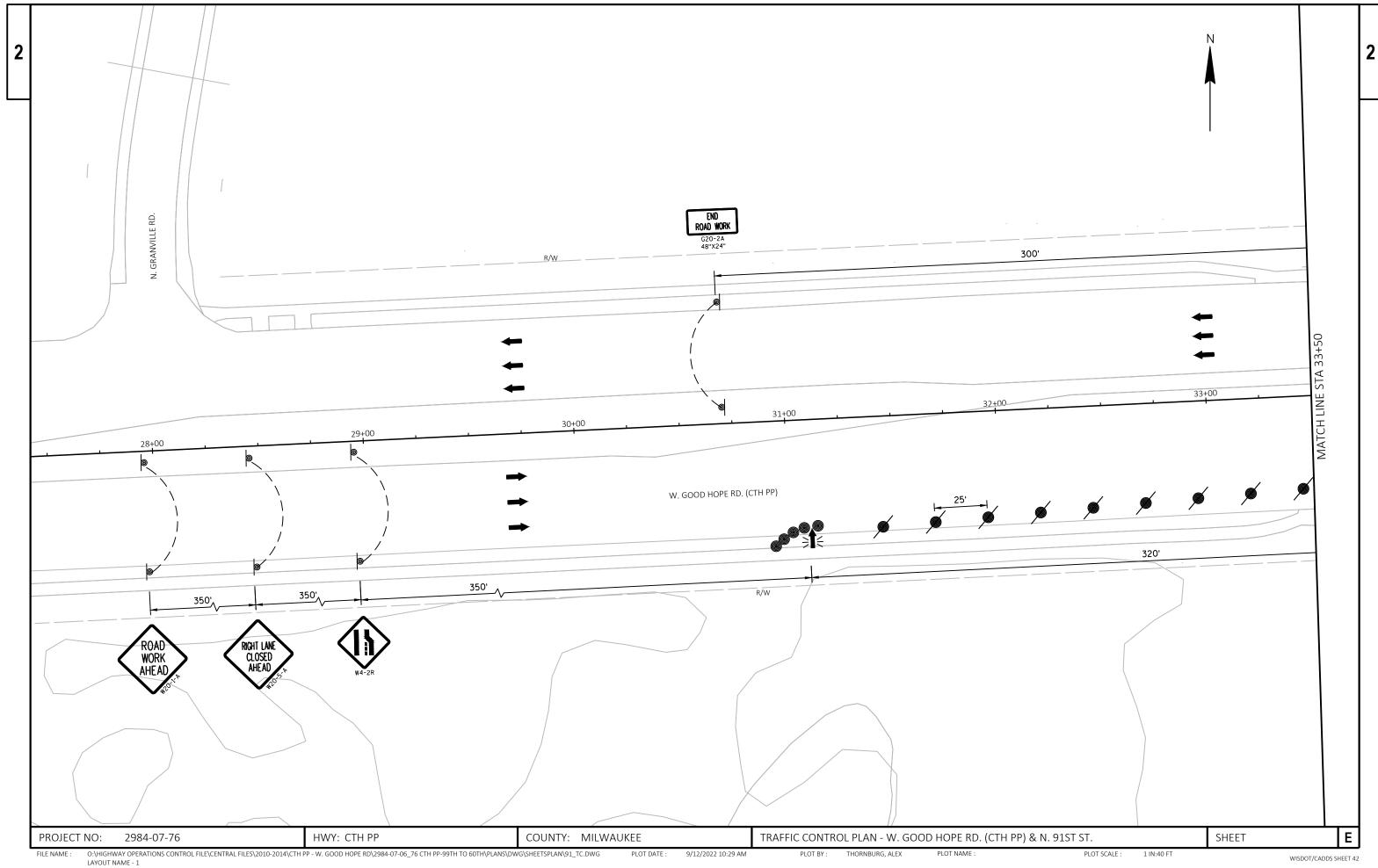


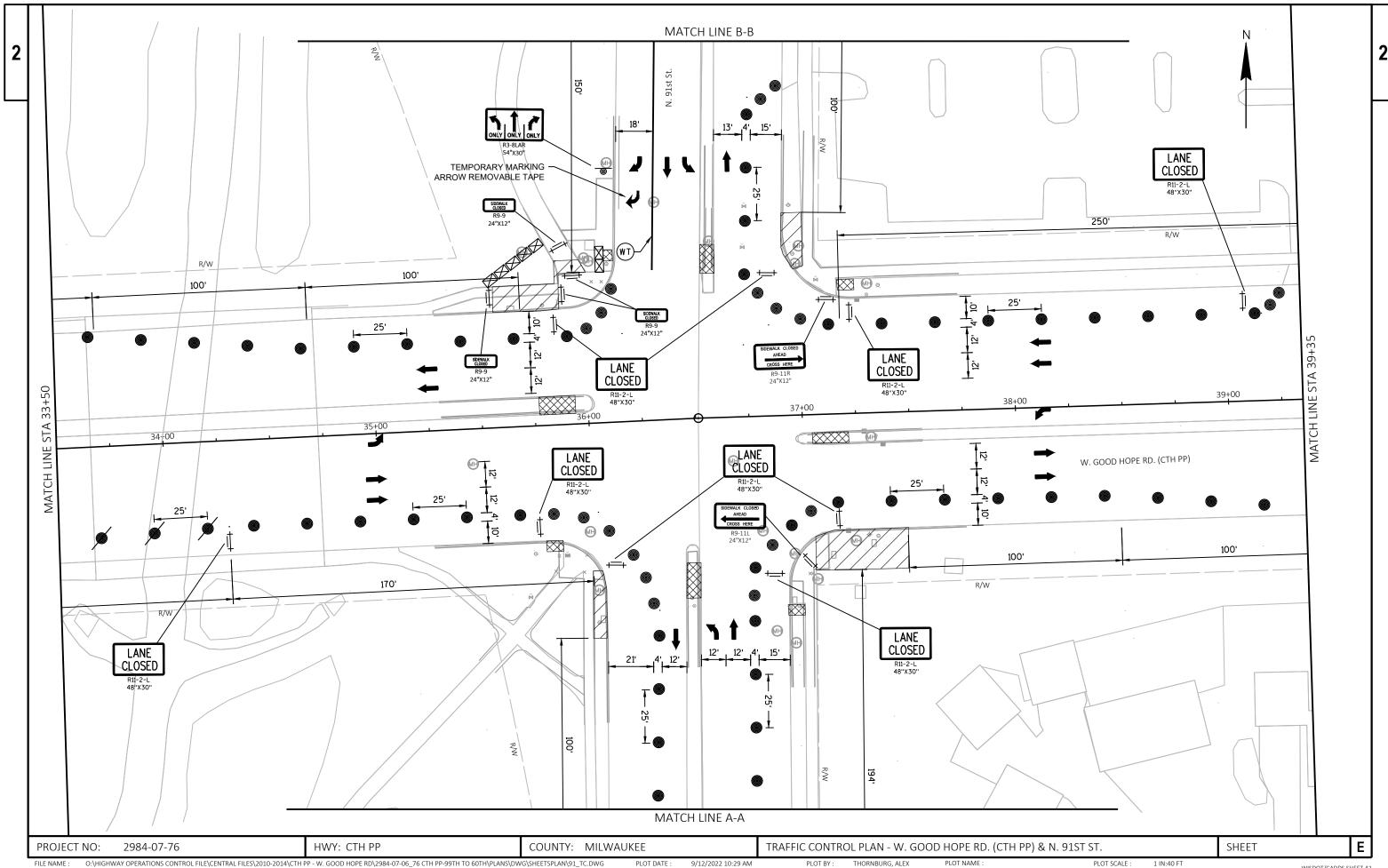
LAYOUT NAME - 2

9/12/2022 9:35 AM

1 IN:40 FT





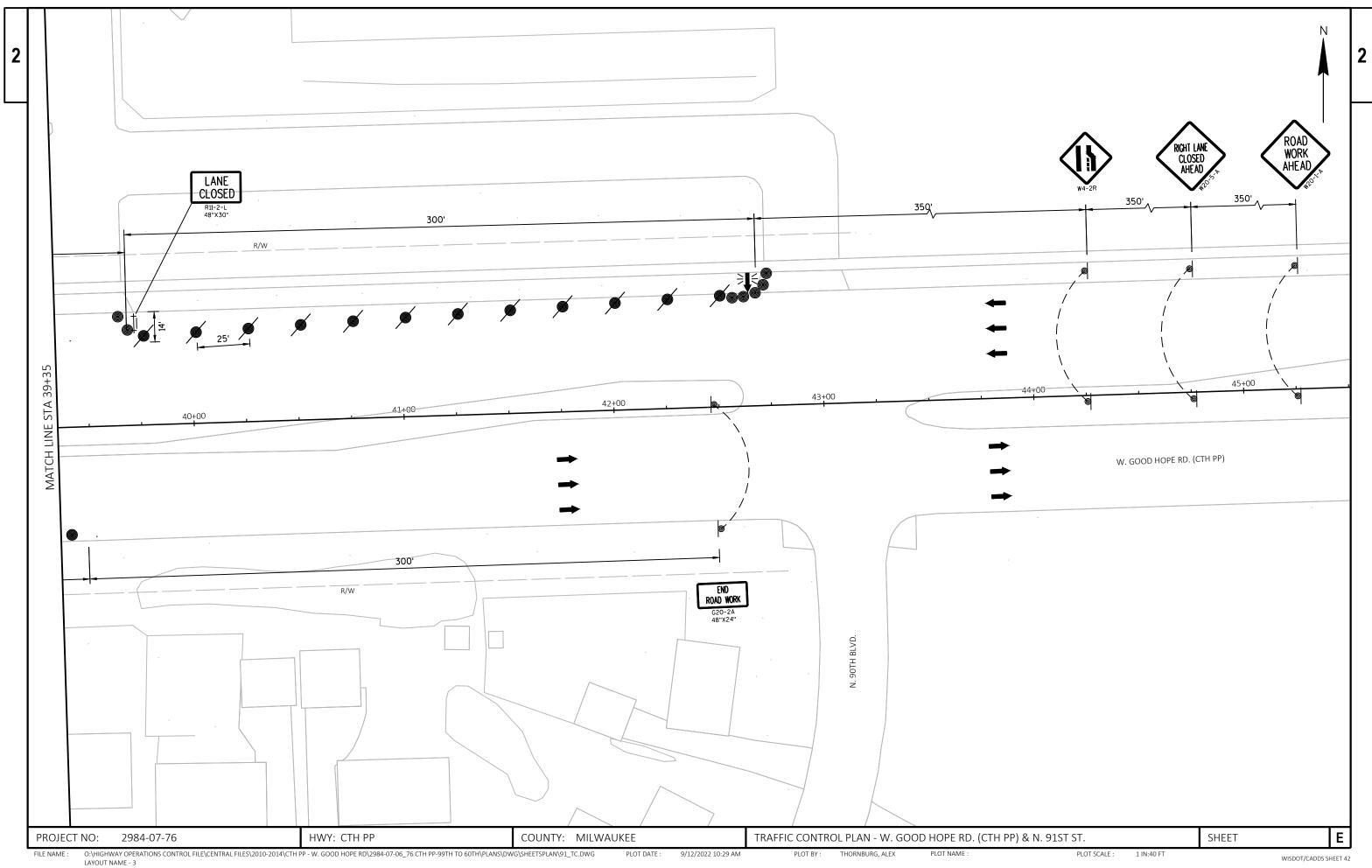


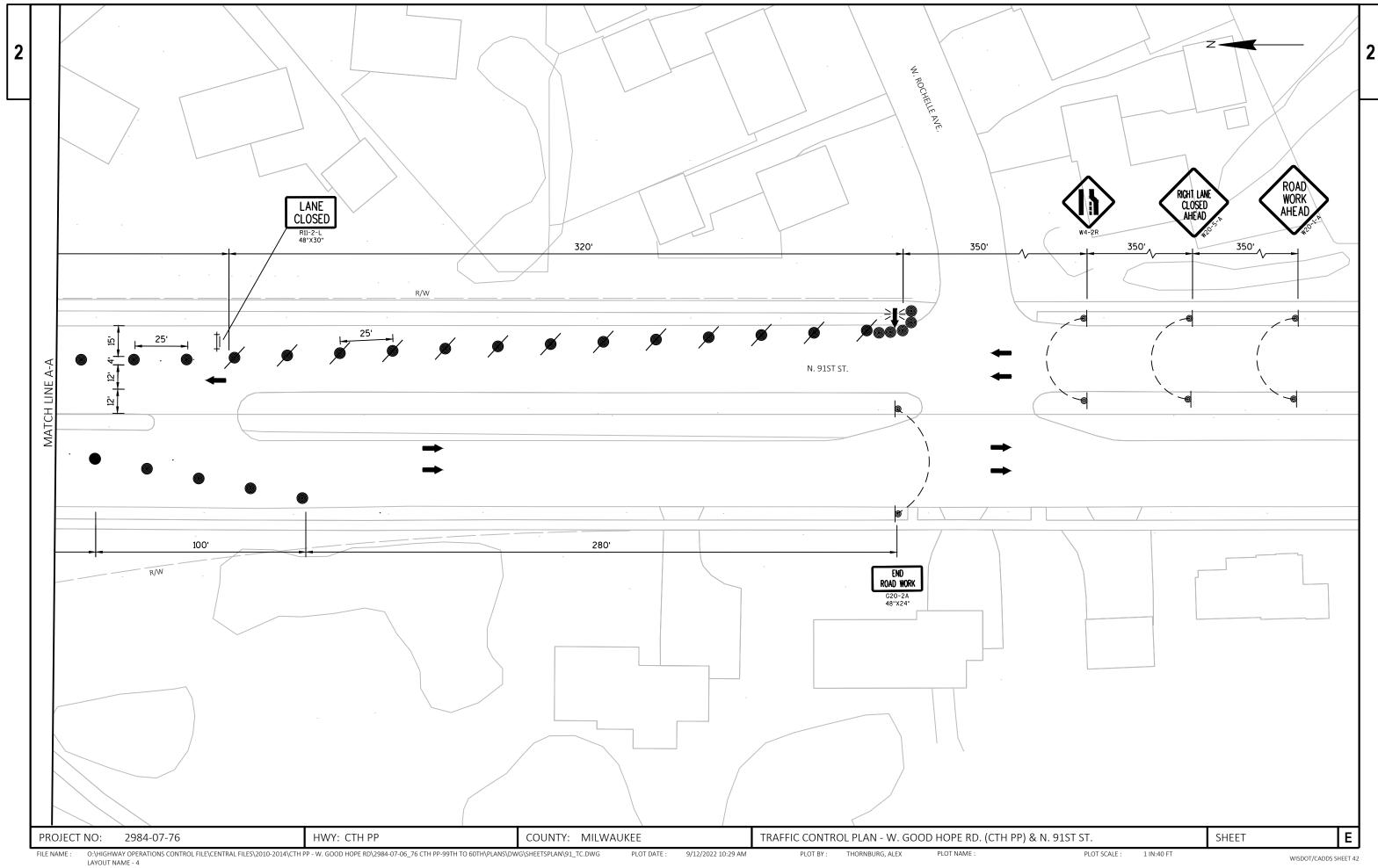
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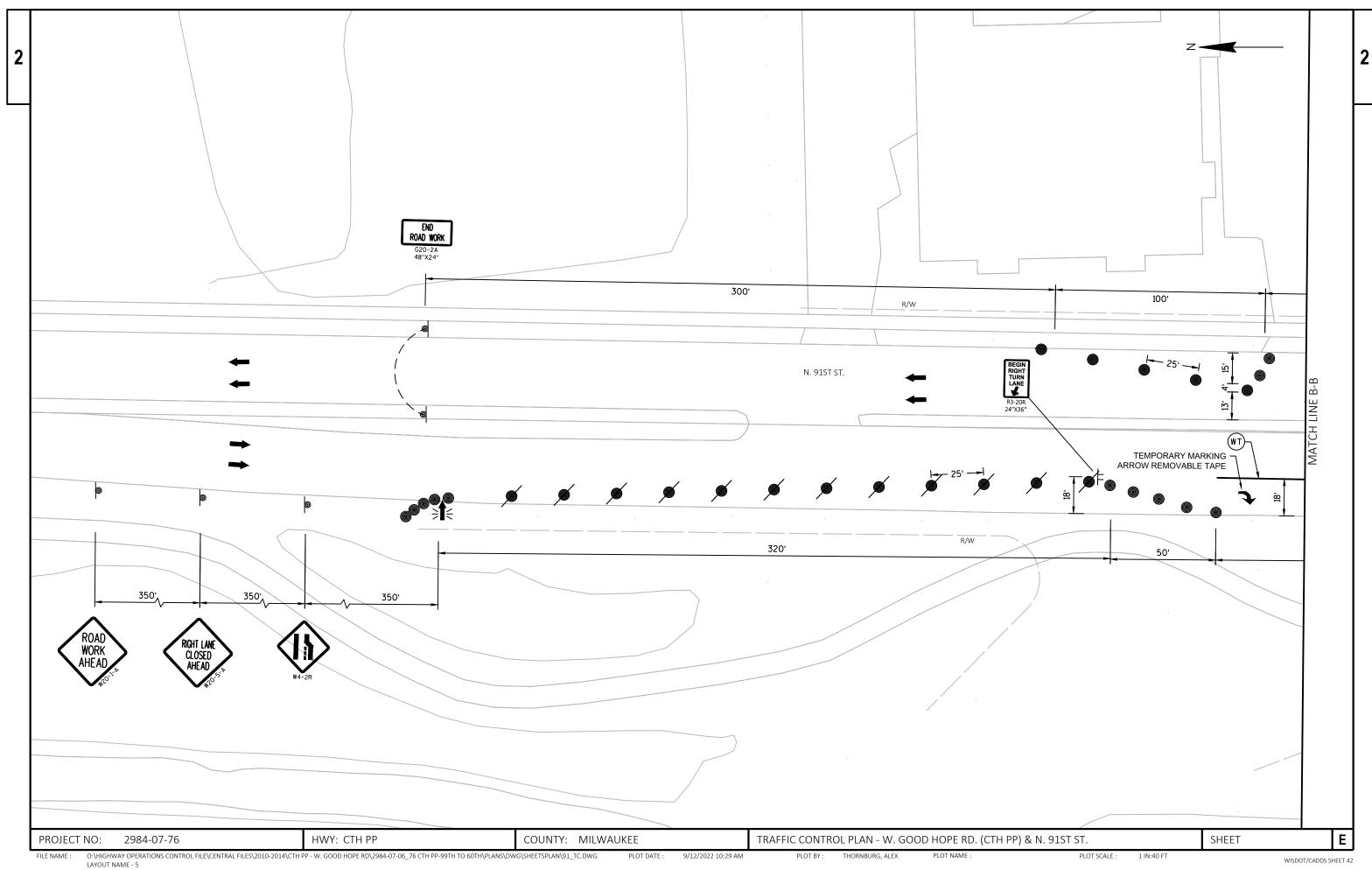
PLOT BY: THORNBURG, ALEX

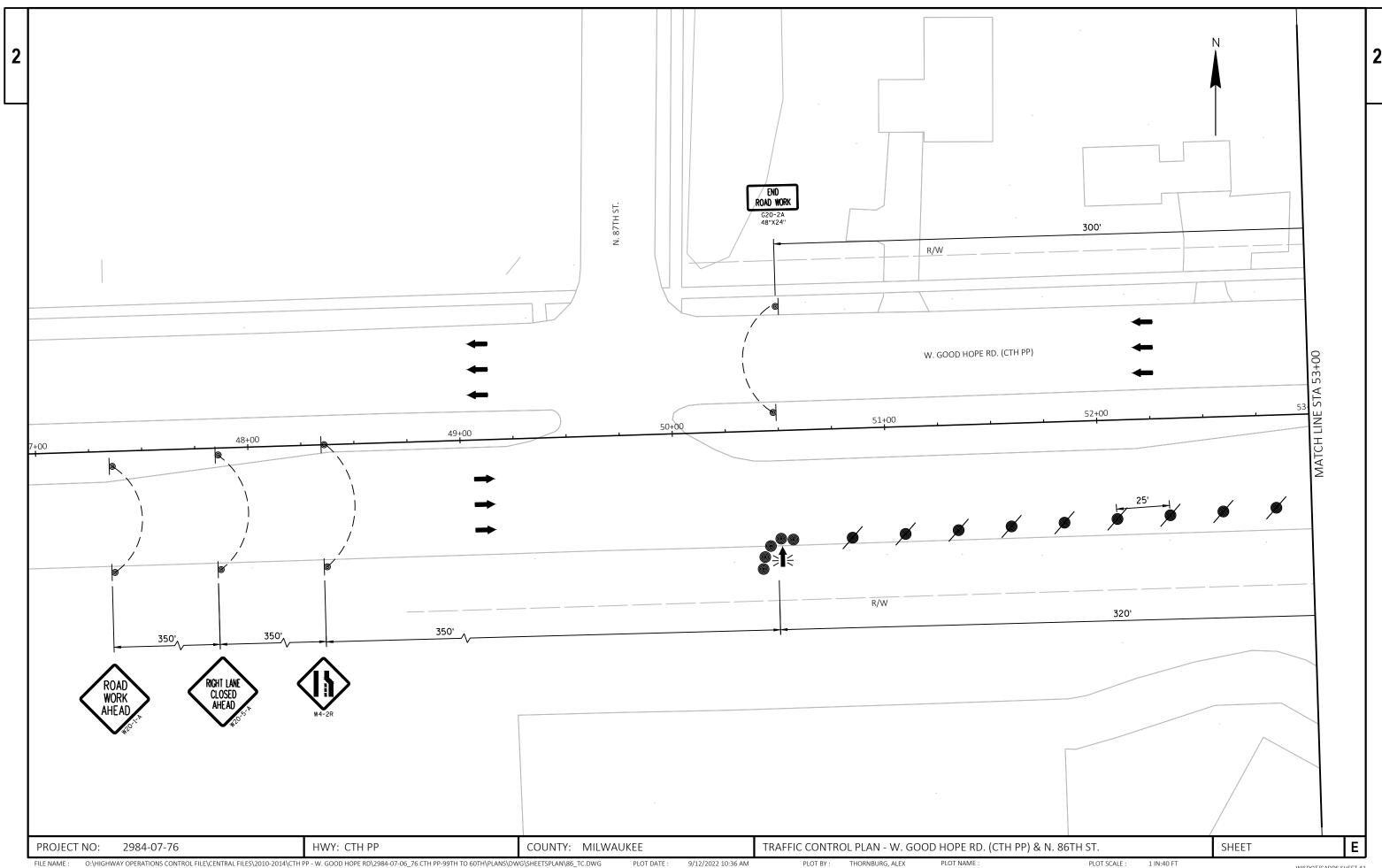
PLOT NAME :

PLOT SCALE : 1 IN:40 FT



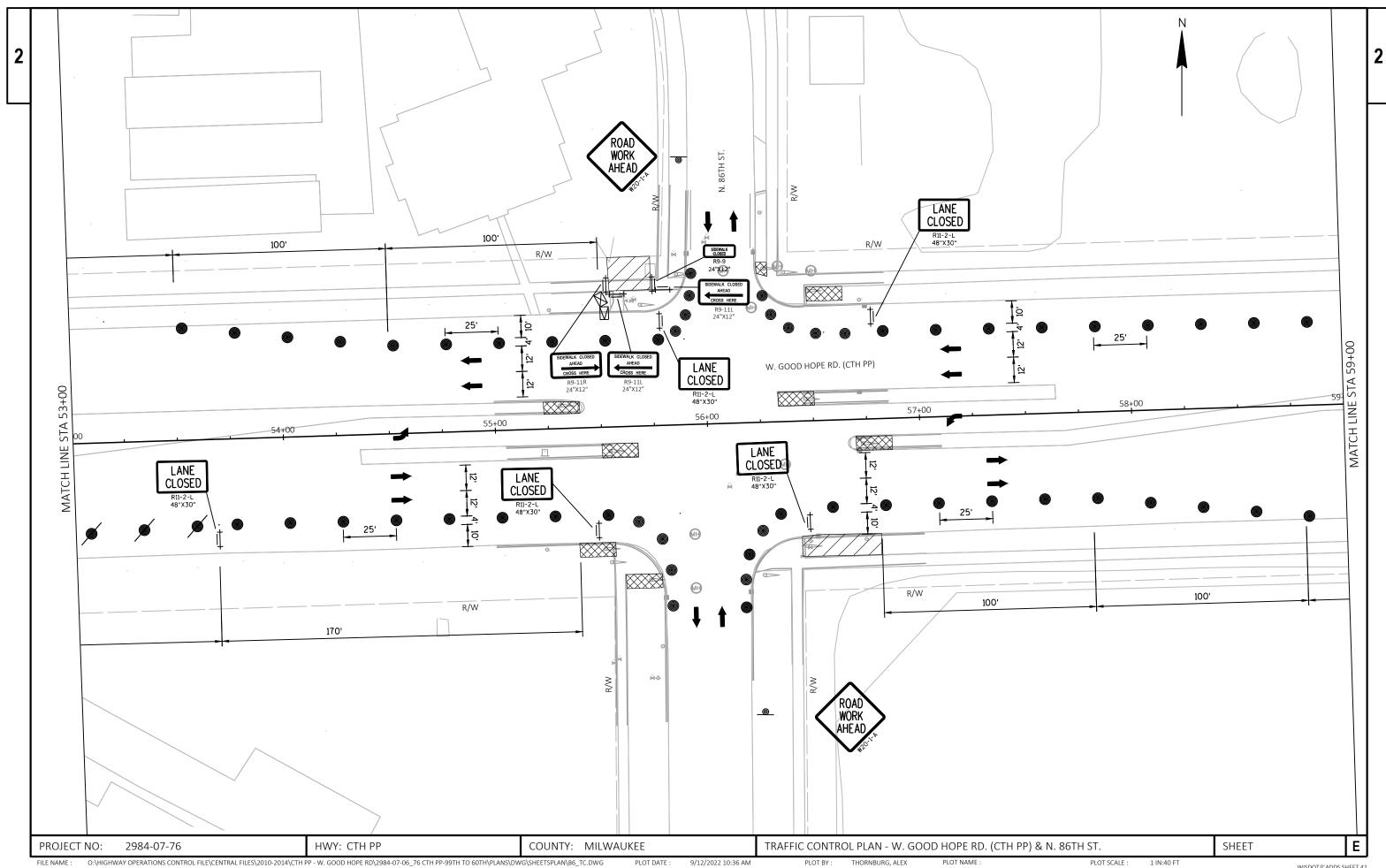


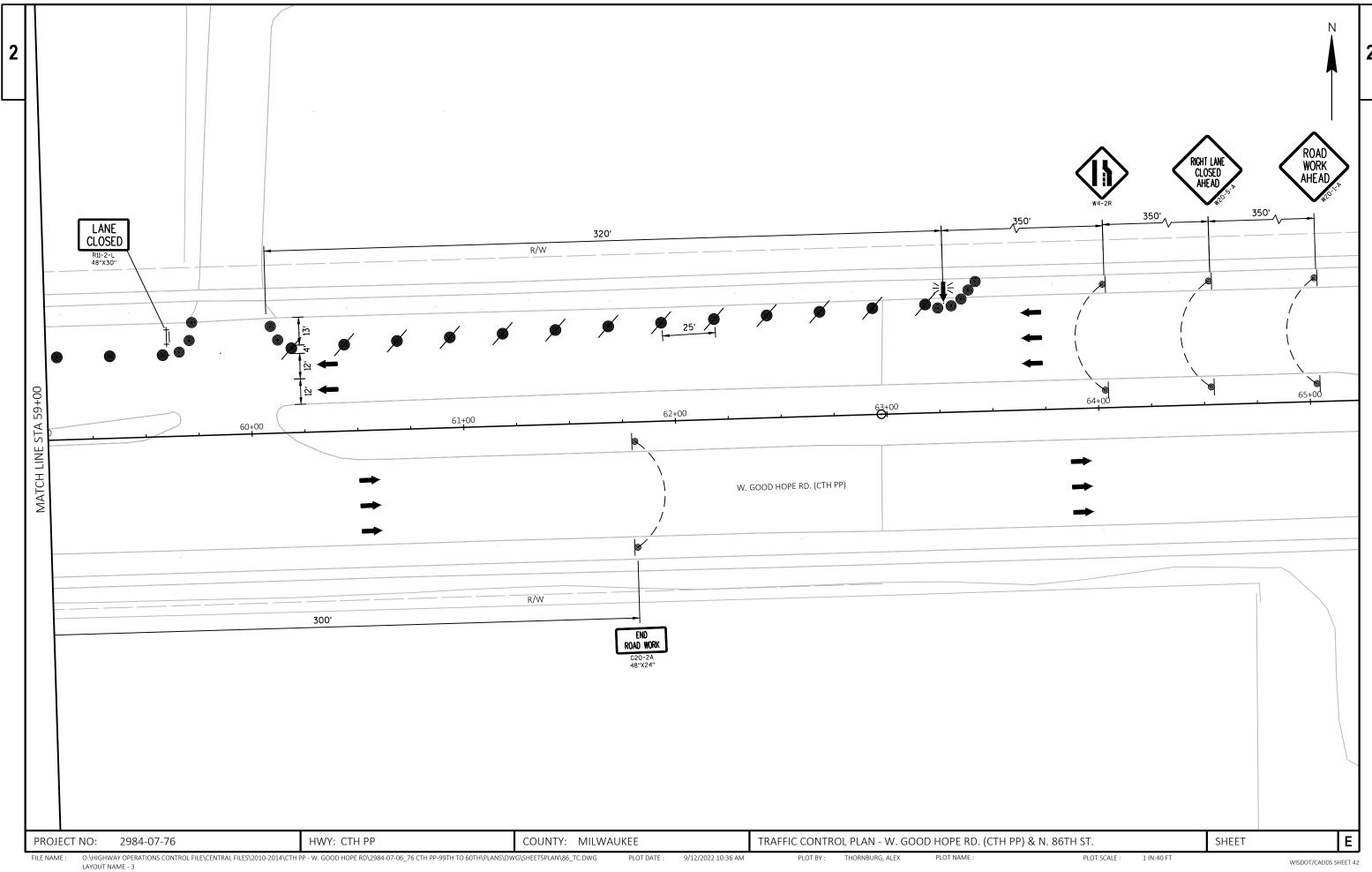


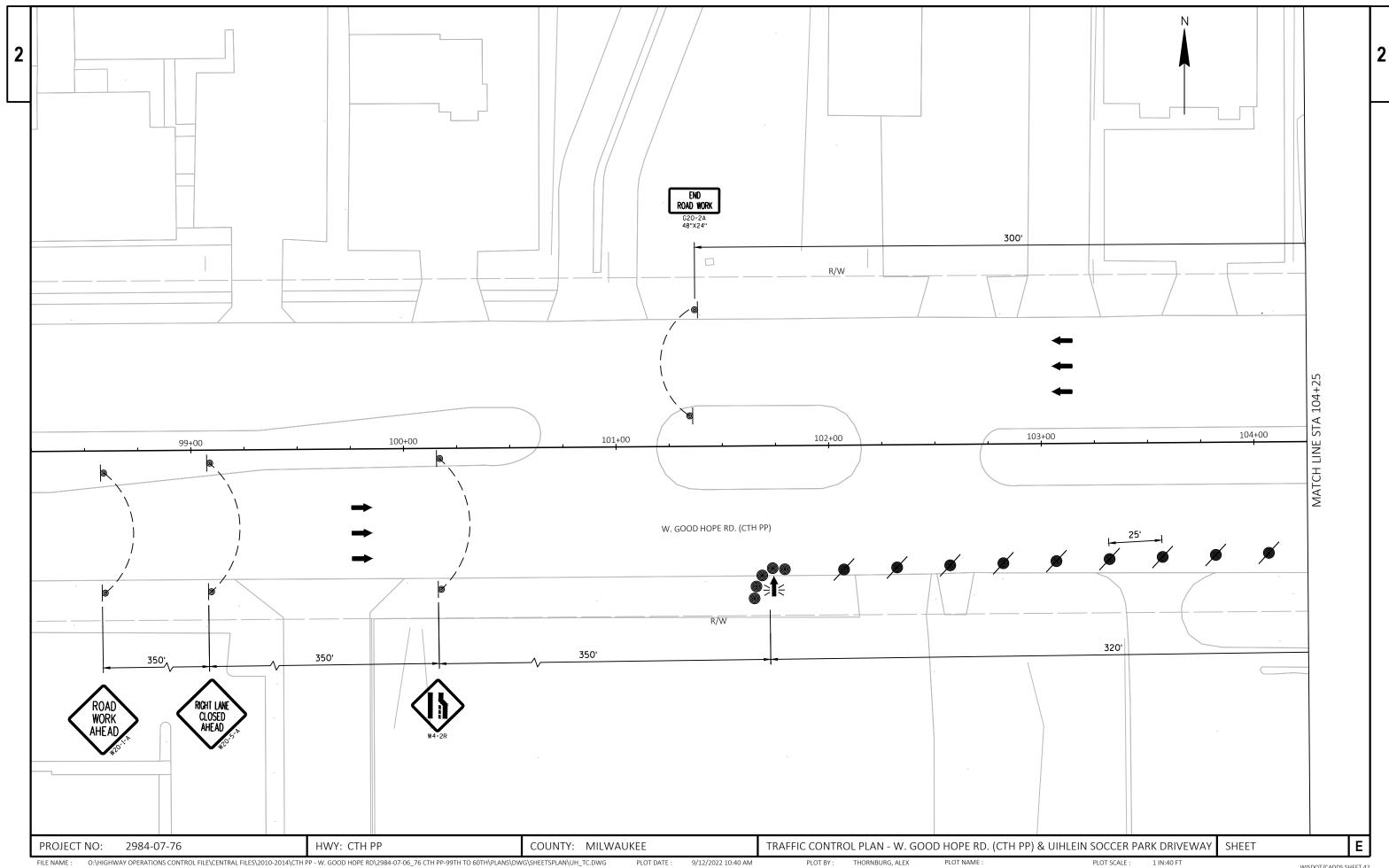


O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH PP - W. GOOD HOPE RD\2984-07-06_76 CTH PP-99TH TO 60TH\PLANS\DWG\SHEETSPLAN\86_TC.DWG LAYOUT NAME - 1

PLOT NAME :

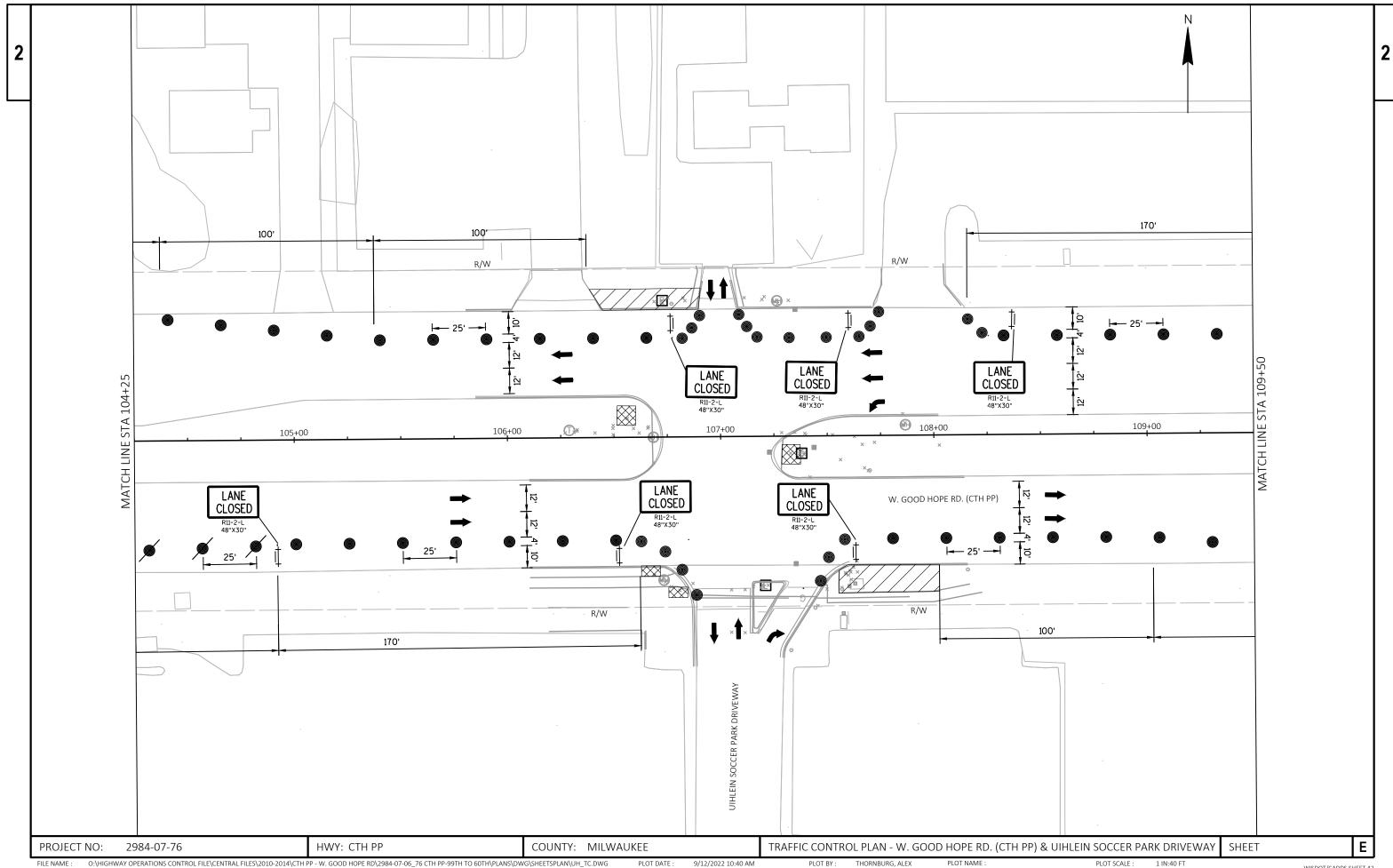






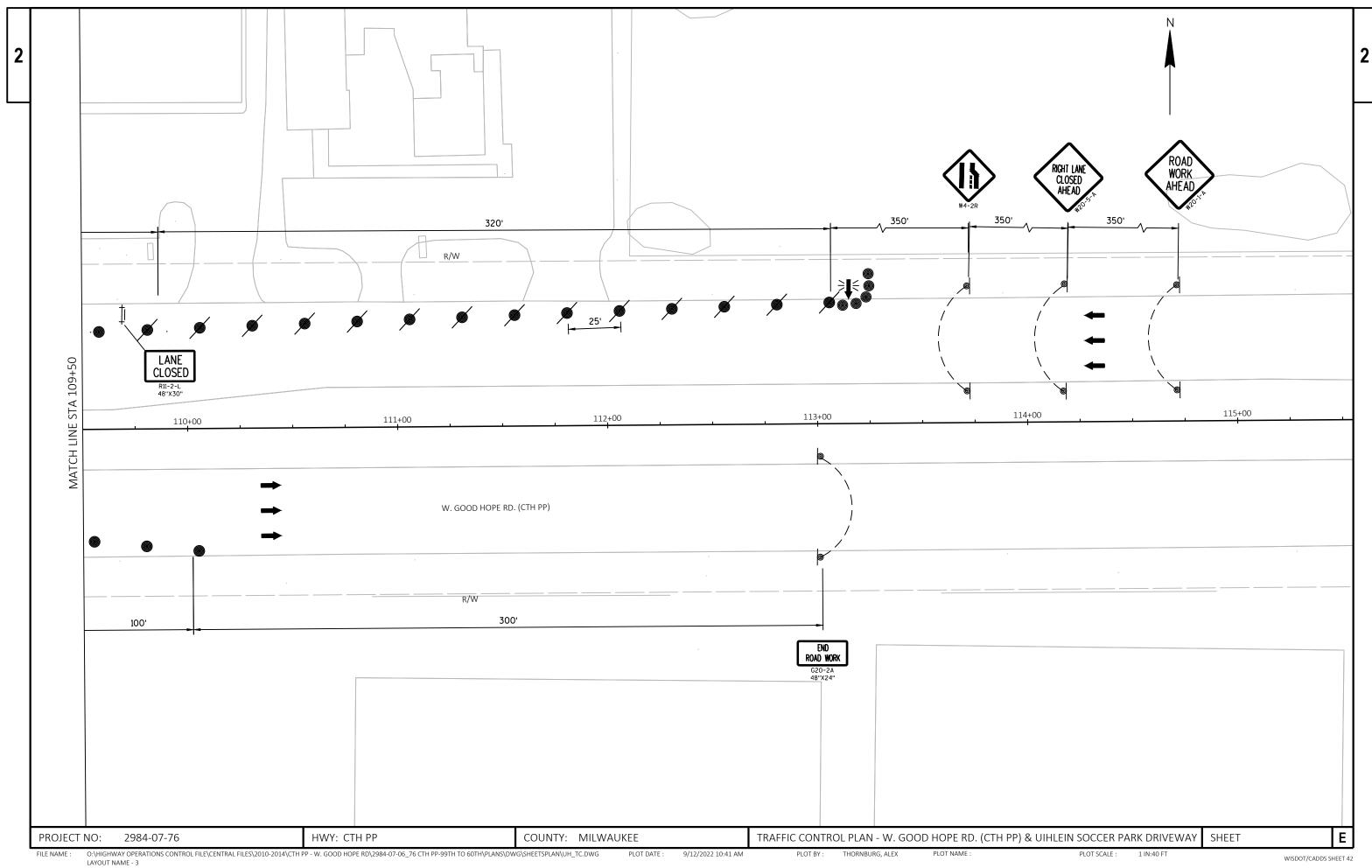
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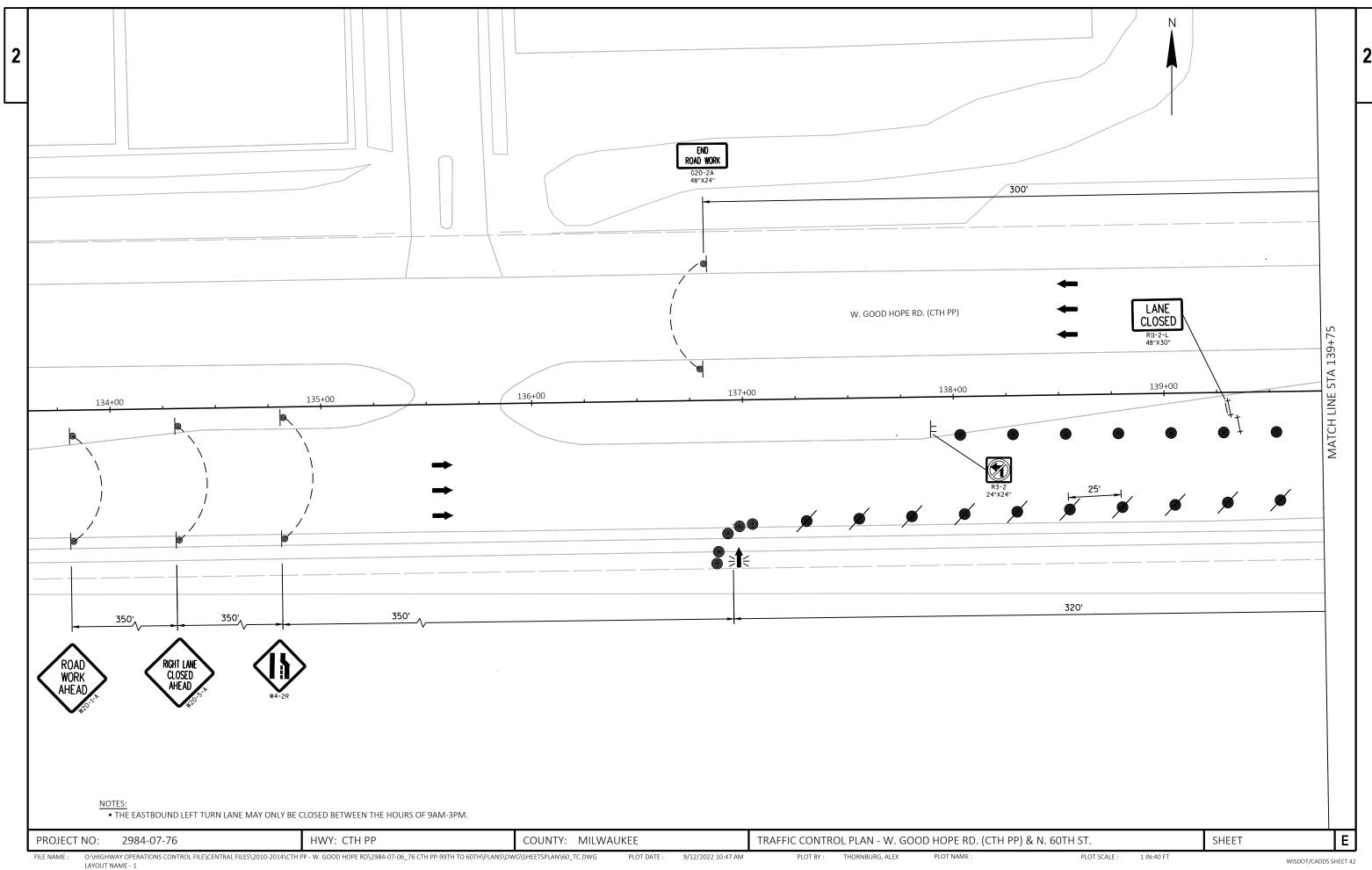
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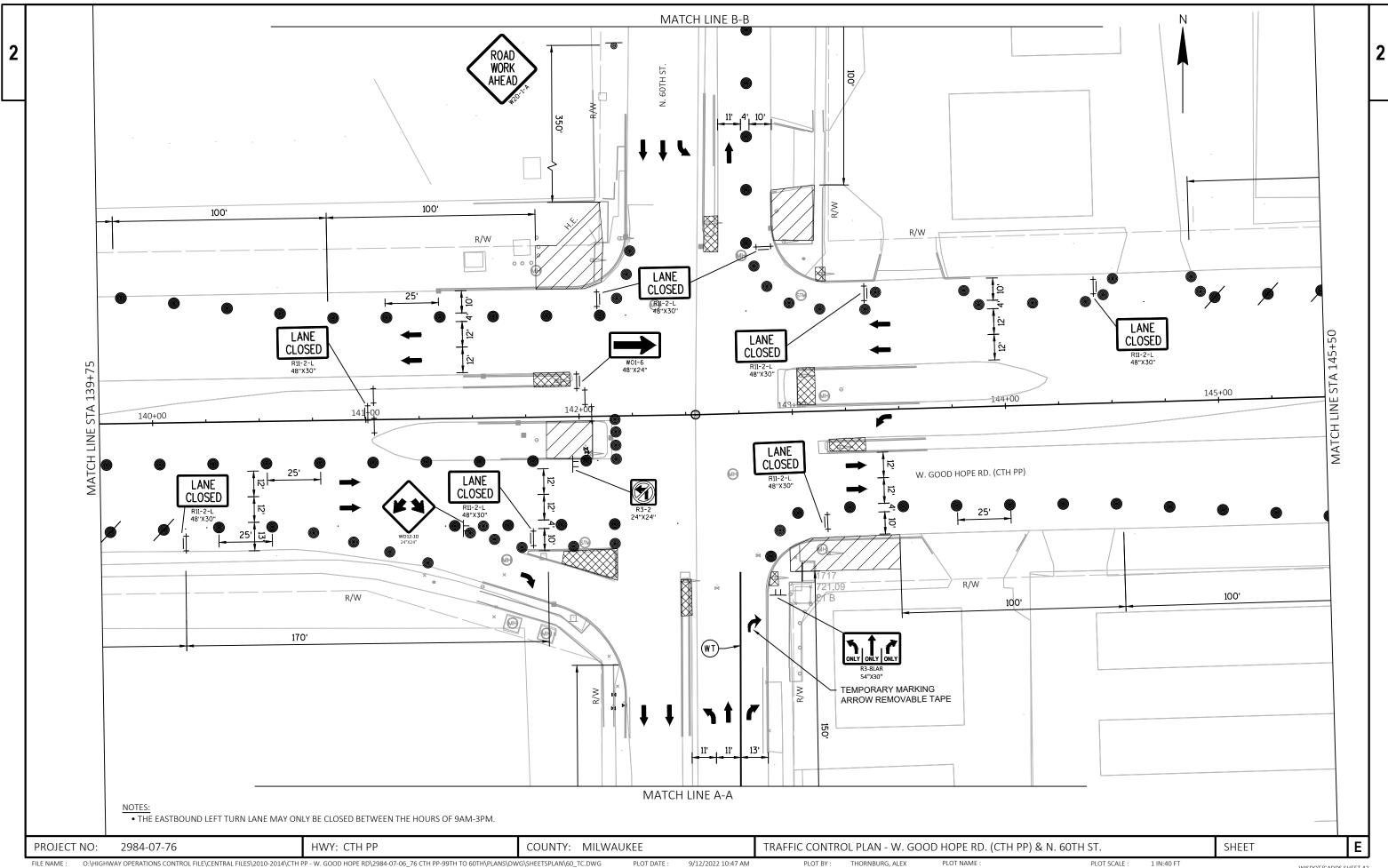


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PLOT SCALE: 1 IN:40 FT



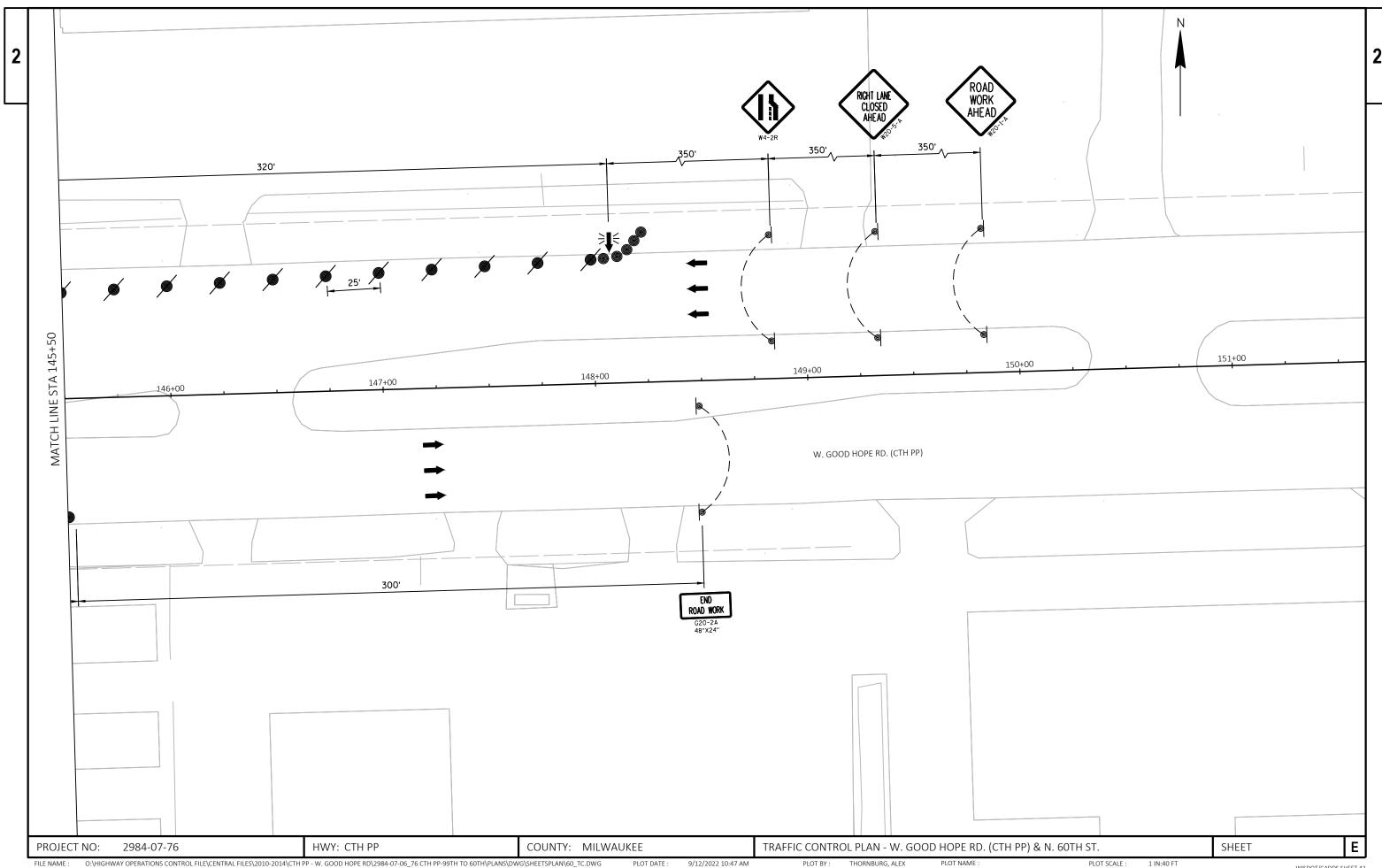




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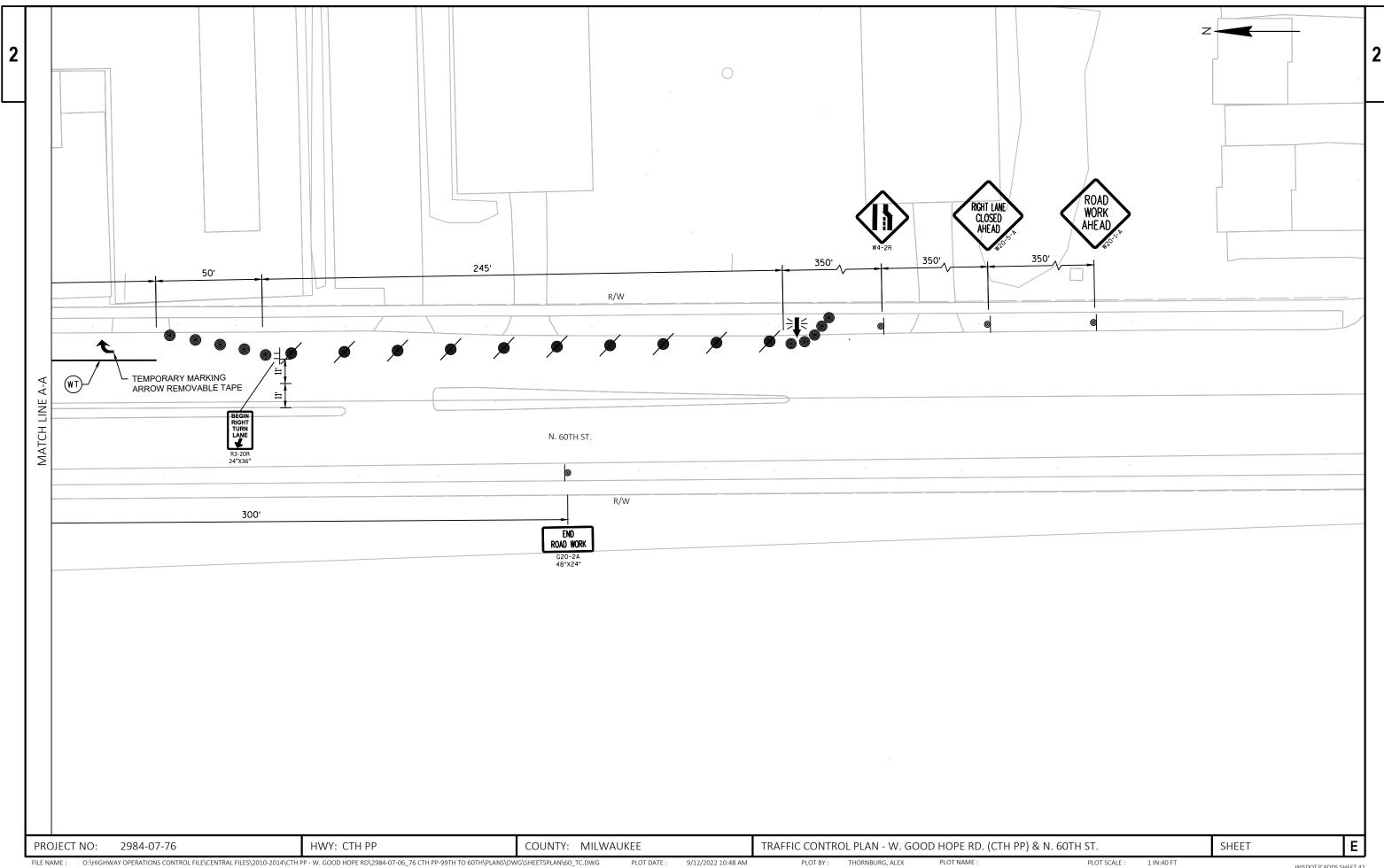
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1 IN:40 FT

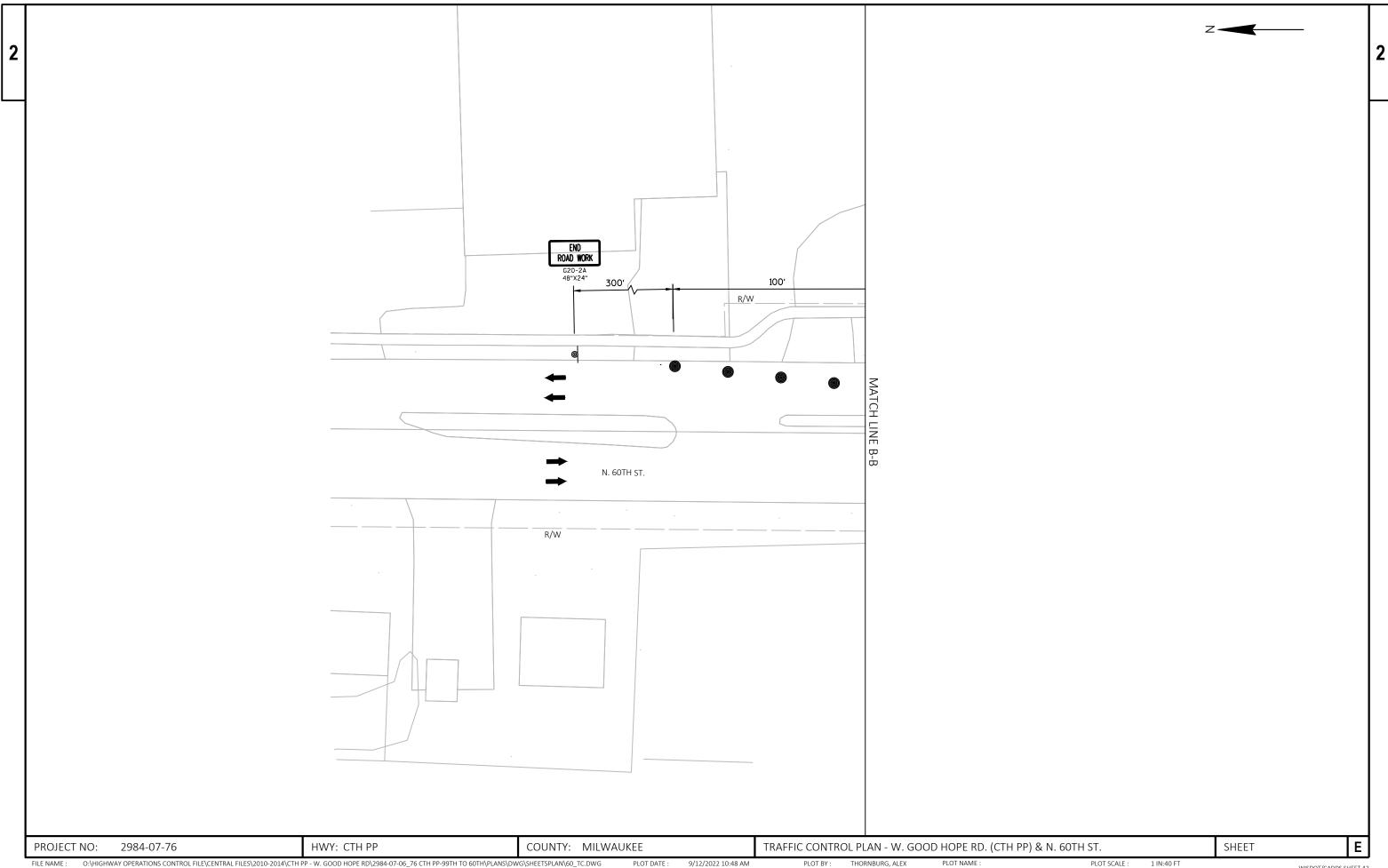


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PLOT SCALE: 1 IN:40 FT



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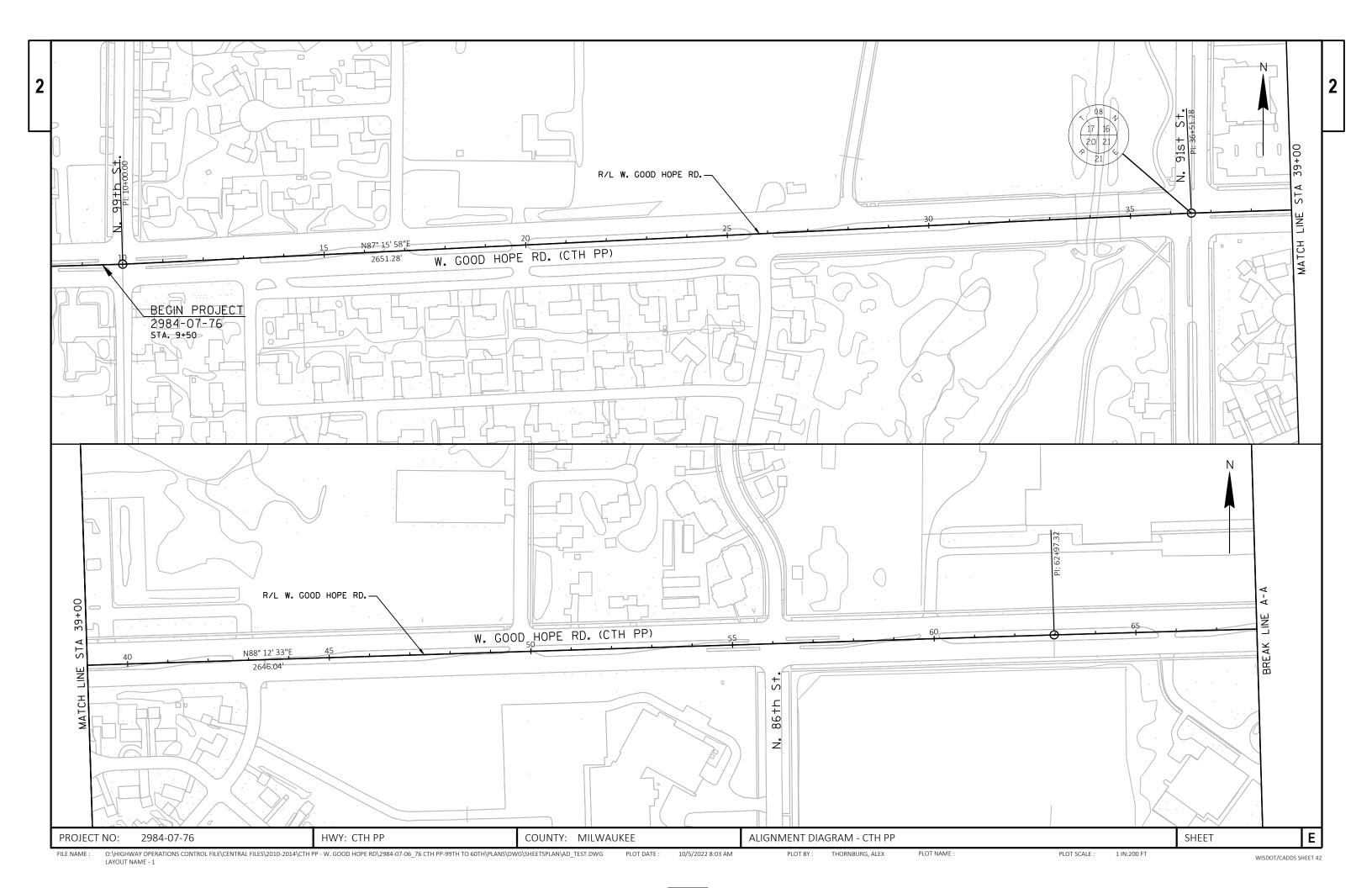


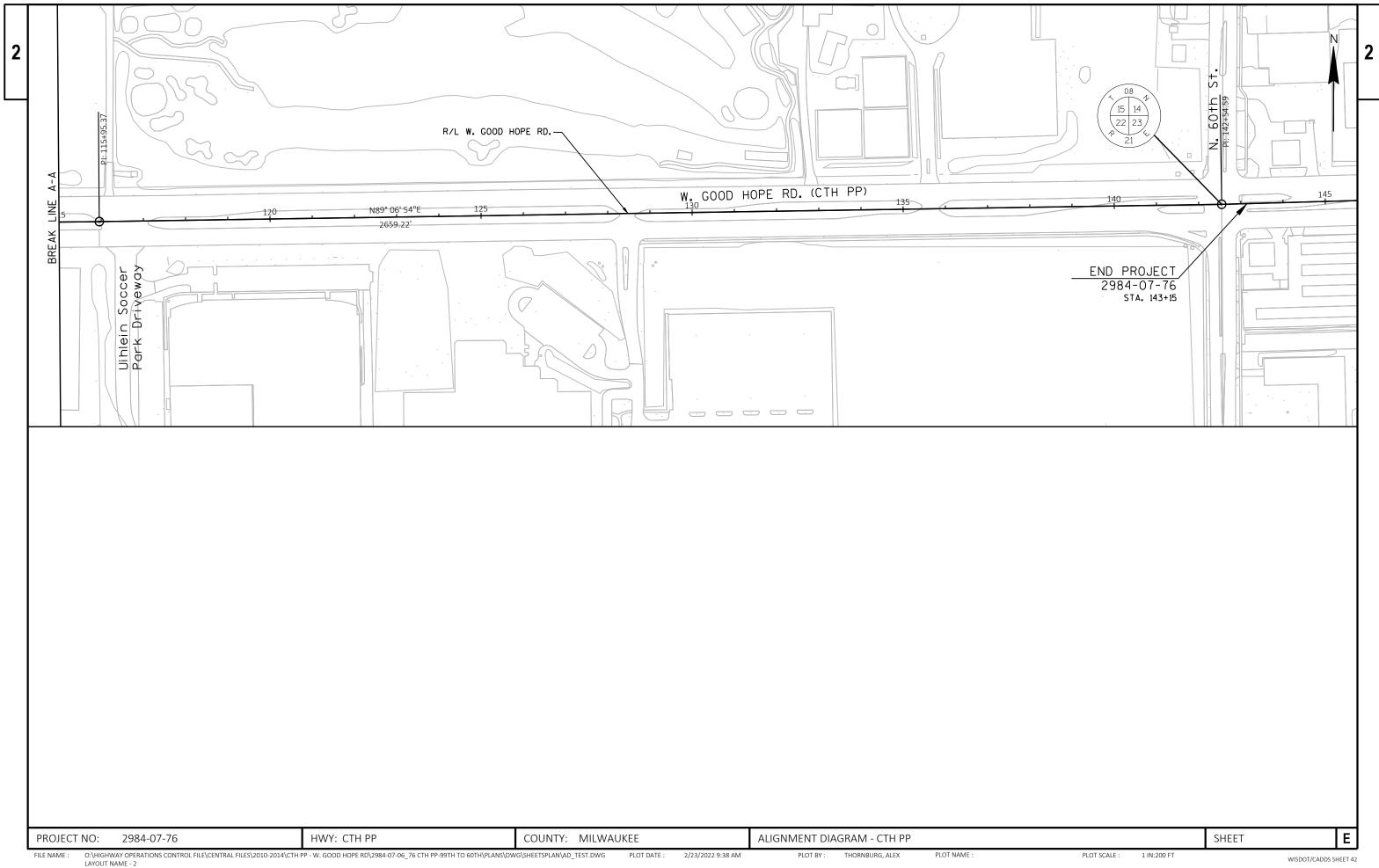
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PLOT BY: THORNBURG, ALEX

PLOT NAME :

PLOT SCALE: 1 IN:40 FT





2984-07-70	3
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Line Item Item Description Item Description ID
0006 204.0155 Removing Concrete Sidewalk SY 45.000 45.000 0006 204.0195 Removing Concrete Bases EACH 13.000 13.000 0008 204.9060.5 Removing (item description) 01. Traffic Signal Equipment at Intersection EACH 11.000 5.000 0010 204.9060.5 Removing (item description) 02. Concrete Base Bolts EACH 11.000 11.000 0014 205.0501.5 Sexavation, Hauling, and Disposal of Petroleum Contaminated Soil TON 7.000 7.000 0016 602.0410 Concrete Sidewalk F-Inch SF 250.000 250.000 200.000 0018 602.0420 Concrete Sidewalk F-Inch SF 250.000 250.000 200.000 0020 602.0515 Curb Ramp Detectable Warning Field Natural Patina SF 14.000 14.000 14.000 14.000 14.000 12.000 200.000 200.000 200.000 14.000 14.000 12.000 12.000 12.000 11.000 11.000 11.000 12.000 12.000 12.000
0004 204 0155 Removing Concrete Sidewalk SY 45 000 45 000 0006 204 0195 Removing Concrete Bases EACH 13 000 13 000 0008 204 9060.5 Removing (item description) 01. Traffic Signal Equipment at Intersection EACH 11 000 5 000 0010 204 9060.5 Removing (item description) 10. Concrete Base Botls EACH 11 100 11 1000 0014 213 0100 Finishing Roadway (project) 01. 2984-07-76 EACH 1,000 1,000 0018 602 0420 Concrete Sidewalk 5-Inch SF 200,000 200,000 0018 602 0420 Concrete Sidewalk 7-Inch SF 200,000 200,000 0020 602,0515 Curb Ramp Detectable Warning Field Natural Patina SF 14,000 14,000 0021 623,0100 Topseil Topseil SY 750,000 750,000 0022 619,100 Mobilizations Erosion Control EACH 2,000 2,000 0026 623,1905 Mobilizations Emergency Erosion Control E
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0058 643.0300 Traffic Control Drums DAY 30,400.000 30,400.000 0060 643.0420 Traffic Control Barricades Type III DAY 2,830.000 2,830.000 0062 643.0705 Traffic Control Warning Lights Type A DAY 5,560.000 5,560.000 0064 643.0715 Traffic Control Warning Lights Type C DAY 9,610.000 9,610.000 0066 643.0800 Traffic Control Arrow Boards DAY 660.000 660.000 0068 643.0900 Traffic Control Signs DAY 8,310.000 8,310.000 0070 643.1050 Traffic Control Signs PCMS DAY 720.000 720.000 0072 643.3150 Temporary Marking Line Removable Tape 4-Inch LF 350.000 350.000 0074 643.3550 Temporary Marking Arrow Removable Tape EACH 4.000 4.000
0060 643.0420 Traffic Control Barricades Type III DAY 2,830.000 2,830.000 0062 643.0705 Traffic Control Warning Lights Type A DAY 5,560.000 5,560.000 0064 643.0715 Traffic Control Warning Lights Type C DAY 9,610.000 9,610.000 0066 643.0800 Traffic Control Arrow Boards DAY 660.000 660.000 0068 643.0900 Traffic Control Signs DAY 8,310.000 8,310.000 0070 643.1050 Traffic Control Signs PCMS DAY 720.000 720.000 0072 643.3150 Temporary Marking Line Removable Tape 4-Inch LF 350.000 350.000 0074 643.3550 Temporary Marking Arrow Removable Tape EACH 4.000 4.000
0062 643.0705 Traffic Control Warning Lights Type A DAY 5,560.000 5,560.000 0064 643.0715 Traffic Control Warning Lights Type C DAY 9,610.000 9,610.000 0066 643.0800 Traffic Control Arrow Boards DAY 660.000 660.000 0068 643.0900 Traffic Control Signs DAY 8,310.000 8,310.000 0070 643.1050 Traffic Control Signs PCMS DAY 720.000 720.000 0072 643.3150 Temporary Marking Line Removable Tape 4-Inch LF 350.000 350.000 0074 643.3550 Temporary Marking Arrow Removable Tape EACH 4.000 4.000
0064 643.0715 Traffic Control Warning Lights Type C DAY 9,610.000 9,610.000 0066 643.0800 Traffic Control Arrow Boards DAY 660.000 660.000 0068 643.0900 Traffic Control Signs DAY 8,310.000 8,310.000 0070 643.1050 Traffic Control Signs PCMS DAY 720.000 720.000 0072 643.3150 Temporary Marking Line Removable Tape 4-Inch LF 350.000 350.000 0074 643.3550 Temporary Marking Arrow Removable Tape EACH 4.000 4.000
0066 643.0800 Traffic Control Arrow Boards DAY 660.000 660.000 0068 643.0900 Traffic Control Signs DAY 8,310.000 8,310.000 0070 643.1050 Traffic Control Signs PCMS DAY 720.000 720.000 0072 643.3150 Temporary Marking Line Removable Tape 4-Inch LF 350.000 350.000 0074 643.3550 Temporary Marking Arrow Removable Tape EACH 4.000 4.000
0068 643.0900 Traffic Control Signs DAY 8,310.000 8,310.000 0070 643.1050 Traffic Control Signs PCMS DAY 720.000 720.000 0072 643.3150 Temporary Marking Line Removable Tape 4-Inch LF 350.000 350.000 0074 643.3550 Temporary Marking Arrow Removable Tape EACH 4.000 4.000
0070 643.1050 Traffic Control Signs PCMS DAY 720.000 0072 643.3150 Temporary Marking Line Removable Tape 4-Inch LF 350.000 0074 643.3550 Temporary Marking Arrow Removable Tape EACH 4.000
0072 643.3150 Temporary Marking Line Removable Tape 4-Inch LF 350.000 350.000 0074 643.3550 Temporary Marking Arrow Removable Tape EACH 4.000 4.000
0074 643.3550 Temporary Marking Arrow Removable Tape EACH 4.000 4.000
1 , 0
0078 644.1440 Temporary Pedestrian Surface Matting SF 500.000 500.000
0080 644.1601 Temporary Pedestrian Curb Ramp DAY 40.000 40.000
· · ·
0084 650.8501 Construction Staking Electrical Installations (project) 01. 2984-07-76 EACH 1.000 1.000
0086 650.9000 Construction Staking Curb Ramps EACH 1.000 1.000
0088 650.9500 Construction Staking Sidewalk (project) 01. 2984-07-76 EACH 1.000 1.000
0090 650.9911 Construction Staking Supplemental Control (project) 01. 2984-07-76 EACH 1.000 1.000
0092 652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch LF 100.000 100.000
0094 652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch LF 300.000 300.000
0096 652.0615 Conduit Special 3-Inch LF 300.000 300.000
0098 652.0700.S Install Conduit into Existing Item EACH 18.000 18.000

					2984-07-76	
Line	Item	Item Description	Unit	Total	Qty	
0100	654.0113	Concrete Bases Type 13	EACH	4.000	4.000	
0102	654.0120	Concrete Bases Type 10-Special	EACH	10.000	10.000	
0104	655.0210	Cable Traffic Signal 3-14 AWG	LF	80.000	80.000	
0106	655.0230	Cable Traffic Signal 5-14 AWG	LF	220.000	220.000	
0108	655.0240	Cable Traffic Signal 7-14 AWG	LF	3,400.000	3,400.000	
0110	655.0260	Cable Traffic Signal 12-14 AWG	LF	4,500.000	4,500.000	
0112	655.0270	Cable Traffic Signal 15-14 AWG	LF	1,200.000	1,200.000	
0114	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	260.000	260.000	
0116	657.0100	Pedestal Bases	EACH	7.000	7.000	
0118	657.0347	Poles Type 9-Special	EACH	4.000	4.000	
0120	657.0352	Poles Type 10-Special	EACH	6.000	6.000	
0122	657.0355	Poles Type 12	EACH	1.000	1.000	
0124	657.0360	Poles Type 13	EACH	3.000	3.000	
0126	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	3.000	3.000	
0128	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	4.000	4.000	
0130	657.0541	Monotube Arms 40-FT-Special	EACH	1.000	1.000	
0132	657.0546	Monotube Arms 45-FT-Special	EACH	9.000	9.000	
0134	657.0555	Monotube Arms 55-FT	EACH	4.000	4.000	
0136	657.0815	Luminaire Arms Steel 15-FT	EACH	9.000	9.000	
0138	658.0173	Traffic Signal Face 3S 12-Inch	EACH	39.000	39.000	
0140	658.0174	Traffic Signal Face 4S 12-Inch	EACH	26.000	26.000	
0142	658.0416	Pedestrian Signal Face 16-Inch	EACH	15.000	15.000	
0144	658.0500	Pedestrian Push Buttons	EACH	9.000	9.000	
0146	658.5070	Signal Mounting Hardware (location) 01. CTH PP & 99TH ST	EACH	1.000	1.000	
0148	658.5070	Signal Mounting Hardware (location) 02. CTH PP & 91ST ST	EACH	1.000	1.000	
0150	658.5070	Signal Mounting Hardware (location) 03. CTH PP & 86TH ST	EACH	1.000	1.000	
0152	658.5070	Signal Mounting Hardware (location) 04. CTH PP & UIHLEIN	EACH	1.000	1.000	
0154	658.5070	Signal Mounting Hardware (location) 05. CTH PP & 60TH ST	EACH	1.000	1.000	
0156	661.0201	Temporary Traffic Signals for Intersections (location) 01. CTH PP & 99TH ST	EACH	1.000	1.000	
0158	661.0201	Temporary Traffic Signals for Intersections (location) 02. CTH PP & 91ST ST	EACH	1.000	1.000	
0160	661.0201	Temporary Traffic Signals for Intersections (location) 03. CTH PP & 86TH ST	EACH	1.000	1.000	
0162	661.0201	Temporary Traffic Signals for Intersections (location) 04. CTH PP & UIHLEIN	EACH	1.000	1.000	
0164	661.0201	Temporary Traffic Signals for Intersections (location) 05. CTH PP & 60TH ST	EACH	1.000	1.000	
0166	678.0400	Fiber Optic Termination	EACH	8.000	8.000	
0168 0170	690.0150 690.0250	Sawing Asphalt	LF LF	30.000 70.000	30.000 70.000	
		Sawing Concrete	HRS			
0172		On-the-Job Training Apprentice at \$5.00/HR On-the-Job Training Graduate at \$5.00/HR		800.000	800.000	
0174 0176	SPV.0035	Special 01. Backfill Slurry	HRS CY	1,800.000 9.000	1,800.000 9.000	
0178	SPV.0055	Special 01. Remove and Reinstall Video Detection Camera	EACH	3.000	3.000	
0178	SPV.0060	Special 02. Cabinet Modification	EACH	5.000	5.000	
0182	SPV.0060	Special 03. Transport and Install 4-Camera System	EACH	1.000	1.000	
0184	SPV.0060	Special 04. Transport and Install Fisheye and 2-Camera System	EACH	1.000	1.000	
0186	SPV.0060	Special 04. Transport and first air Fisheye and 2-Gamera System Special 05. Cored Sign Post Holes 6-Inch	EACH	11.000	11.000	
0188	SPV.0060 SPV.0060	Special 05. Colled Sign Post Holes 6-Inich Special 06. Utility Line Opening	EACH	10.000	10.000	
0190	SPV.0060	Special 07. Remove and Reinstall Trombone Arm	EACH	4.000	4.000	
0190	SPV.0000 SPV.0090	Special 01. Tracer Wire, 12 AWG	LF	120.000	120.000	
0194	SPV.0090	Special 02. Remove and Reinstall Fiber Optic Cable	LF	120.000	120.000	
0194	SPV.0090	Special 03. Furnish and Install Camera Cable	LF	1,450.000	1,450.000	
0190	OI V.0030	Openia 00. i urilisti anu instali Gamera Gabie	Lí	1,750.000	1,750.000	

REMOVING CONCRETE BASES

204.0195 204.9060.S.02 REMOVING (02. REMOVING **CONCRETE BASE** CONCRETE BASES BOLTS) CATEGORY LOCATION EACH EACH NO. 0010 W. GOOD HOPE RD (CTH PP) & N. 99TH ST SB1 1 SB4

0010 0010 SB9 0010 SB10 0010 SB18 W. GOOD HOPE RD (CTH PP) & N. 91ST ST SB3 0010 SB4 0010 SB7 0010 0010 SB8 SB11 0010 0010 SB14 W. GOOD HOPE RD (CTH PP) & N. 86TH ST SB6 0010 0010 SB13

W. GOOD HOPE RD (CTH PP) & UIHLEIN SOCCER PARK

W. GOOD HOPERD (CTH PP) & N. 60TH ST

SB15

SB1

SB5

SB6 SB10

SB2

SB6

SB7 SB9

SB12

SB13

13

11

TOTAL 0010

CONTAMINATED SOILS

205.0501.S EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL LOCATION CATEGORY STATION TO STATION TON 0010 W. GOOD HOPE RD (CTH PP) & N. 60TH ST 142+85 - 143+45 5 0010 SUBTOTAL UNDISTRIBUTED TOTAL 0010

GRUBBING

201.0220 GRUBBING LOCATION REMARKS CATEGORY ID W. GOOD HOPE RD (CTH PP) & N. 99TH ST 20 TREE STUMP REMOVAL 0010 0010 TOTAL 0010 20

EROSION CONTROL ITEMS

		625.0100	628.1905	628.1910 MOBILIZATIONS	628.6510	628.7005	628.7010	628.7015	629.0210	631.0300	631.1000
			MOBILIZATIONS	EMERGENCY		INLET	INLET	INLET			
			EROSION	EROSION	SOIL STABILIZER	PROTECTION	PROTECTION	PROTECTION	FERTILIZER TYPE		
		TOPSOIL	CONTROL	CONTROL	TYPE B	TYPEA	TYPE B	TYPE C	В	SOD WATER	SOD LAWN
CATEGORY	LOCATION	SY	EACH	EACH	ACRE	EACH	EACH	EACH	CWT	MGAL	SY
0010	W. GOOD HOPE RD (CTH PP) & N. 99TH ST	65	-	-	0.013	-	10	-	0.05	2	65
0010	W. GOOD HOPE RD (CTH PP) & N. 91ST ST	173	-	-	0.036	-	11	-	0.11	5	173
0010	W. GOOD HOPE RD (CTH PP) & N. 86TH ST	116	-	-	0.024	-	14	-	0.08	3	116
0010	W. GOOD HOPE RD (CTH PP) & UIHLEIN SOCCER PARK	111	-	-	0.023	-	9	-	0.07	3	111
0010	W. GOOD HOPE RD (CTH PP) & N. 60TH ST	234	-	-	0.048	-	18	-	0.15	6	234
0010											
	SUBTOTAL	699	0	0	0.14	0	62	0	0.46	19	699
	UNDISTRIBUTED	51	2	2	0.06	3	6	3	0.04	6	51
	TOTAL 0010	750	2	2	0.20	3	68	3	0.50	25	750

HWY: CTH PP COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET Ε PROJECT NO: 2984-07-76

0010

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							624 0912	SIGN SUMMAI		C27 221F	628.2602	638 3000	CDV OOCO OF	
							634.0812	634.0814	637.2210	637.2215	638.2602	638.3000	SPV.0060.05 SPECIAL (.05	
							POSTS TUBULAR	POSTS TUBULAR		SIGNS TYPE II		REMOVING	CORED SIGN	
							STEEL 2X2-INCH	STEEL 2X2-INCH	SIGNS TYPE II	REFLECTIVE H	REMOVING	SMALL SIGN	POST HOLES 6-	
					SIZE		X 12-FT	X 14-FT	REFLECTIVE H	FOLDING	SIGNS TYPE II	SUPPORTS	INCH)	
CATEGORY	SIGN NO.	SIGN CODE	DESCRIPTION	INCHES	Χ	INCHES	EACH	EACH	SF	SF	EACH	EACH	EACH	REMARKS
'														
0010	1.01	R1-1F	STOP (FOLDING)	30.00	Χ	30.00	1			5.18	1		1	
0010	1.02	R4-7	KEEP RIGHT	24.00	Χ	30.00		-	5.00		1			SAME POST AS 1.01
0010	1.03	R1-1F	STOP (FOLDING)	30.00	Χ	30.00		-	-	5.18		-		ON SIGNAL POLE
0010	1.04	R4-7	KEEP RIGHT	24.00	Χ	30.00	1	-	5.00		1	-	1	
0010	1.05	R1-1F	STOP (FOLDING)	30.00	Χ	30.00		-	-	5.18	1		=	SAME POST AS 1.04
0010	1.06	M1-94H	N 99TH ST	66.00	Χ	18.00			8.25		1		-	ON MASTARM
0010	1.07	M1-94H	N 99TH ST	66.00	Χ	18.00			8.25		1		-	ON MASTARM
0010	1.08	M1-94H	W GOOD HOPE RD	108.00	Χ	18.00		-	13.50		1			ON MASTARM
0010	1.09	M1-94H	W GOOD HOPE RD	108.00	X	18.00		-	13.50		1			ON MASTARM
0010	1.10	R1-1F	STOP (FOLDING)	30.00	X	30.00		-	_	5.18				ON SIGNAL POLE
0010	2.01	R1-1F	STOP (FOLDING)	30.00	X	30.00	1			5.18	1		1	CANAL DOCT AC 2 04
0010	2.02	R4-7	KEEP RIGHT	24.00	X	30.00			5.00	==	1			SAME POST AS 2.01
0010	2.03 2.04	R4-7	KEEP RIGHT STOP (FOLDING)	24.00	X X	30.00 30.00	1	_	5.00	 5.19	 1		1	SAME POST AS 2.03
0010 0010	2.04	R1-1F R1-1F	STOP (FOLDING) STOP (FOLDING)	30.00 30.00	X	30.00		-	_	5.18 5.18	1		-	ON SIGNAL POLE
0010	2.05	R1-1F R4-7	KEEP RIGHT	24.00	X	30.00	1		5.00	5.18			1	ON SIGNAL FOLE
0010	2.00	R1-1F	STOP (FOLDING)	30.00	X	30.00			3.00 	5.18	1			SAME POST AS 2.06
0010	2.07	M3-4	WEST	24.00	X	12.00		1	2.00	5.16	1	1		SAIVIET 031 A3 2.00
0010	2.09	M1-5A	COUNTY PP	24.00	X	24.00			4.00		1	-	=	SAME POST AS 2.08
0010	2.10	R7-1D	NO PARKING <->	18.00	X	24.00		_	3.00		1			SAME POST AS 2.08
0010	2.11	M1-94H	N 91ST ST	66.00	X	18.00		_	8.25		1			ON MASTARM
0010	2.12	M1-94H	N 91ST ST	66.00	X	18.00		_	8.25		1			ON MASTARM
0010	2.13	M1-94H	W GOOD HOPERD	108.00	Χ	18.00		-	13.50	==	1		=	ON MASTARM
0010	2.14	M1-94H	W GOOD HOPERD	108.00	Χ	18.00	==	=	13.50	==	1		=	ON MASTARM
0010	2.15	M3-2	EAST	24.00	Χ	12.00		1	2.00		1	1	-	
0010	2.16	M1-5A	COUNTY PP	24.00	Χ	24.00		_	4.00		1			SAME POST AS 2.15
0010	2.17	R7-1D	NO PARKING <->	18.00	Χ	24.00	==	=	3.00		==			SAME POST AS 2.15
0010	3.01	R1-1F	STOP (FOLDING)	30.00	Χ	30.00	1	-	-	5.18	1		1	
0010	3.02	R4-7	KEEP RIGHT	24.00	Χ	30.00		-	5.00		1		-	SAME POST AS 3.01
0010	3.03	R4-7	KEEP RIGHT	24.00	Χ	30.00	1	-	5.00	==	1		1	
0010	3.04	R1-1F	STOP (FOLDING)	30.00	Χ	30.00		-	-	5.18	1		=	SAME POST AS 3.03
0010	3.05	M1-94H	N 86TH ST	66.00	Χ	18.00			8.25		1		-	ON MASTARM
0010	3.06	M1-94H	N 86TH ST	66.00	Χ	18.00		-	8.25		1			ON MASTARM
0010	3.07	M3-4	WEST	24.00	X	12.00		1	2.00		1	1		
0010	3.08	M1-5A	COUNTY PP	24.00	X	24.00	==	=	4.00		1		==	SAME POST AS 3.07
0010	3.09	R7-1D	NO PARKING <->	18.00	X	24.00		-	3.00					SAME POST AS 3.07
0010	3.10	M3-2	EAST	24.00	X	12.00		1	2.00		1	1		CANAL DOCT AC 2 10
0010	3.11	M1-5A	COUNTY PP	24.00	X	24.00			4.00		1			SAME POST AS 3.10
0010 0010	3.12 3.13	R7-1D	NO PARKING <-> NO PARKING <->	18.00	Χ	24.00			3.00		 1	-	-	SAME POST AS 3.10 ON LIGHT POLE
0010	3.14	M1-94H	W GOOD HOPERD	108.00	Χ	18.00		_	13.50		1		-	ON MASTARM
0010	3.15	M1-94H	W GOOD HOPERD	108.00	X	18.00	==	=	13.50		1			ON MASTARM
0010	4.01	R4-7	KEEP RIGHT	24.00	X	30.00	1	_	5.00	_	1			
0010	4.02	R1-1F	STOP (FOLDING)	30.00	X	30.00		-		5.18	1	-		SAME POST AS 4.01
0010	4.03	R7-1D	NO PARKING <->	18.00	X	24.00			3.00		==			ON SIGNAL POLE
0010	4.04	R7-1D	NO PARKING <->	18.00	X	24.00			3.00					ON SIGNAL POLE
0010	5.01	R1-1F	STOP (FOLDING)	30.00	Х	30.00	1	-	-	5.18	1		1	
0010	5.02	R4-7	KEEP RIGHT	24.00	Χ	30.00		-	5.00					SAME POST AS 5.01
0010	5.03	R4-7	KEEP RIGHT	24.00	X	30.00	1	-	5.00		1		1	
0010	5.04	R1-1F	STOP (FOLDING)	30.00	Χ	30.00		-	_	5.18	1		-	SAME POST AS 5.03
0010	5.05	R4-7	KEEP RIGHT	24.00	Χ	30.00	1	-	5.00				1	
0010	5.06	R1-1F	STOP (FOLDING)	30.00	Χ	30.00		-	-	5.18	1	-		SAME POST AS 5.05
0010	5.07	R4-7	KEEP RIGHT	24.00	Χ	30.00	1	-	5.00			-	1	
0010	5.08	R1-1F	STOP (FOLDING)	30.00	Χ	30.00		-	-	5.18	1		-	SAME POST AS 5.07
0010	5.09	R5-1	DO NOT ENTER	30.00	X	30.00		-	6.25		1			ON SIGNAL POLE
0010	5.10	R1-1F	STOP (FOLDING)	30.00	X	30.00		-		5.18	1			ON SIGNAL POLE
0010	5.11	M1-94H	N 60TH ST	66.00	X	18.00		_	8.25		1			ON MASTARM
0010	5.12	M1-94H	N 60TH ST	66.00	X	18.00		_	8.25		1			ON MASTARM
0010	5.13	M1-94H	W GOOD HOPE RD	108.00	X	18.00		=	13.50		1		=	ON MASTARM
0010 0010	5.14 5.15	M1-94H R7-1D	W GOOD HOPERD	108.00	X X	18.00			13.50		1		-	ON MASTARM
0010	3.13	U\-ID	NO PARKING <->	18.00	^	24.00		_	3.00					ON SIGNAL POLE
0010			TOTAL 0010				12	4	289.25	82.88	47	4	11	
			101AL 0010				12	⊣	203.23	02.00	7/	7		

COUNTY: MILWAUKEE

FILE NAME : PLOT DATE : PLOT BY :

PROJECT NO: 2984-07-76

HWY: CTH PP

MISCELLANEOUS QUANTITIES

PLOT SCALE: 1:1

SHEET

PLOT SCALE : 1:1

3

TRAFFIC CONTROL

		643	3.0300	643	3.0420	643	3.0705	643	3.0715	643.	0800	643	.0900	643	3.1050	643.5000	644.1	601	644.1605	644.1440
						TRAFFIC	CONTROL	TRAFFIC	CONTROL								TEMPO	RARY	TEMPORARY PEDESTRIAN	TEMPORAR PEDESTRIA
		TRAFFIC	C CONTROL	TRAFFIC	CONTROL		NG LIGHTS		NG LIGHTS	TRAFFIC	CONTROL	TRAFFIC	CONTROL	TRAFFIC	C CONTROL	TRAFFIC	PEDEST	RIAN	DETECTABLE	SURFACE
	DURATION	DI	RUMS	BARRICA	DES TYPE III	TY	/PEA	T	/PEC	ARROW	BOARDS	SI	GNS	SIGN	IS PCMS	CONTROL	CURB R	AMP	WARNING	MATTING
LOCATION	DAYS *	*EACH	DAY	*EACH	DAY	*EACH	DAY	*EACH	DAY	*EACH	DAY	*EACH	DAY	*EACH	DAY	EACH	*EACH	DAY	SF	SF
W. GOOD HOPE RD (CTH PP) & N. 99TH ST																				
	40	90	3,600	6	240	12	480	28	1,120	2	80	24	960	2	80					
UNDISTRIBUTED	10	10	100	1	10	2	20	8	80			4	40							
SUBTOTAL	50		3,700		250		500		1,200		80		1,000		80	-				-
W. GOOD HOPE RD (CTH PP) & N. 91ST ST																				
	60	160	9,600	14	840	28	1,680	56	3,360	4	240	46	2,760	4	240					325
UNDISTRIBUTED	10	20	200	4	40	8	80	6	60			6	60							75
SUBTOTAL	70		9,800		880		1,760		3,420		240		2,820		240	-			-	400
W. GOOD HOPE RD (CTH PP) & N. 86TH ST																				
	40	100	4,000	10	400	20	800	28	1,120	2	80	28	1,120	2	80		1	40	12	75
UNDISTRIBUTED	10	10	100	5	50	5	50	8	80			8	80						2	25
SUBTOTAL	50		4,100		450		850		1,200		80		1,200		80	-		40	14	100
W. GOOD HOPE RD (CTH PP) & UIHLEIN SOCCER PARK																				
	40	90	3,600	7	280	14	560	28	1,120	2	80	23	920	2	80					
UNDISTRIBUTED	10	10	100	2	20	4	40	8	80			8	80							
SUBTOTAL	50		3,700		300		600		1,200		80		1,000		80					
W. GOOD HOPE RD (CTH PP) & N. 60TH ST																				
	60	150	9,000	15	900	30	1,800	42	2,520	3	180	37	2,220	4	240					
UNDISTRIBUTED	10	10	100	5	50	5	50	7	70			7	70			1				
SUBTOTAL	70		9,100		950		1,850		2,590		180		2,290		240	1				
TOTAL			30,400		2,830		5,560		9,610		660		8,310		720	1		40	14	500
CATEGORY 0010			DAY		DAY		DAY		DAY		DAY		DAY		DAY	EACH		DAY	SF	SF
* FOR INFORMATIONAL LISE ONLY																				

* FOR INFORMATIONAL USE ONLY

PROJECT NO: 2984-07-76 HWY: CTH PP COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET E

FILE NAME : PLOT DATE : PLOT BY :

TEMPORARY MARKING

		643.3150	643.3550
			TEMPORARY
		TEMPORARY	MARKING
		MARKING LINE	ARROW
		REMOVABLE	REMOVABLE
		TAPE 4-INCH	TAPE
CATEGORY	LOCATION	LF	EACH
0010	W. GOOD HOPE RD (CTH PP) & N. 91ST ST	150	2
0010	W. GOOD HOPE RD (CTH PP) & N. 60TH ST	150	2
0010	UNDISTRIBUTED	50	
	TOTAL 0010	350	4

		<u>co</u>	<u>NDUIT</u>			
				652.0225	652.0235	652.0615
				CONDUIT RIGID	CONDUIT RIGID	
				NONMETALLIC	NONMETALLIC	CONDUIT SPECIAL 3-
				SCHEDULE 40 2-INCH	SCHEDULE 40 3-INCH	INCH
CATEGORY	LOCATION	FROM	TO	LF	LF	LF
0010	W. GOOD HOPE RD (CTH PP) & N. 99TH ST	PB1	SB1		10	
0010		PB7	SB9		20	
0010		CV1	PB1	50		
0010	W. GOOD HOPE RD (CTH PP) & N. 91ST ST	PB4	SB3		10	
0010		PB7	SB6		10	
0010		PB10	SB9		10	
0010		PB13	SB12		15	
0010		CV1	PB1	10		
0010	W. GOOD HOPE RD (CTH PP) & N. 86TH ST	PB7	SB6		10	_
0010		PB1	SB14		20	
0010	W. GOOD HOPE RD (CTH PP) & UIHLEIN SOCCER PARK	PB1	SB1		15	_
0010		PB5	SB5		25	
0010	W. GOOD HOPE RD (CTH PP) & N. 60TH ST	PB4	SB3		10	_
0010		PB8	SB6		10	
0010		PB12	SB10		20	
0010		PB14	SB11		20	
0010	UNDISTRIBUTED			40	95	300

TOTAL 0010

100

PROJECT NO: 2984-07-76 HWY: CTH PP COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET E

FILE NAME : PLOT DATE : PLOT BY :

300

TRAFFIC SIGNAL CABLE AND ELECTRICAL WIRING

			(PUSH BUTTON**))			
			*	*	*	*	*
			655.0210	655.0230	655.0240	655.0260	655.0515
							ELECTRICAL
			CABLE TRAFFIC	CABLE TRAFFIC	CABLE TRAFFIC	CABLE TRAFFIC	WIRE TRAFFIC
			SIGNAL 3-14	SIGNAL 5-14	SIGNAL 7-14	SIGNAL 12-14	SIGNALS 10
LOCATION			AWG	AWG	AWG	AWG	AWG
FROM	THROUGH	TO	LF	LF	LF	LF	LF
W. GOOD HOPE	ERD (CTH PP) & N. 99TH ST						
CB1	PB1	SB1				20	10
CB1	PB1, PB2	SB3				55	
CB1	PB1, PB2, PB3, PB4	SB6				155	
CB1	PB1, PB2, PB3, PB4, PB5, PB6, PB7	SB8				315	20
CB1	PB1, PB12, PB11, PB10	SB14				165	
	BASE TO SIGNAL HEAD CABLING		10	35	415		
	UNDISTRIBUTED		10	15	85	190	10
·	W. GOOD HOPE RD (CTH PP) & N. 99TH ST	SUBTOTAL:	20	50	500	900	40
		CATEGORY	0010	0010	0010	0010	0010

^{*}ADDITIONAL QUANTITIES ELSEWHERE

TRAFFIC SIGNAL CABLE AND ELECTRICAL WIRING

		CATEGORY	0010	0010	0010	0010	0010	0010
	W. GOOD HOPE RD (CTH PP) & N. 91ST ST	SUBTOTAL:	10	30	800	1,000	800	60
	UNDISTRIBUTED		5	15	95	160	100	10
	BASE TO SIGNAL HEAD CABLING		5	15	705			
CB1	PB1, PB13	SB12				75		15
CB1	PB1, PB13, PB12, PB11	SB11					195	
CB1	PB1, PB13, PB12, PB11, PB10	SB9				230		10
CB1	PB2, PB3, PB4, PB5, PB6, PB7, PB8	SB7				365		
CB1	PB2, PB3, PB4, PB5, PB6, PB7	SB6					320	15
CB1	PB2, PB3, PB4, PB5	SB5					185	
CB1	PB2, PB3, PB4	SB3				140		10
CB1	PB2	SB1				30		
W. GOOD HOPE F	RD (CTH PP) & N. 91ST ST							
FROM	THROUGH	TO	LF	LF	LF	LF	LF	LF
LOCATION			AWG	AWG	AWG	AWG	AWG	AWG
			SIGNAL 3-14	SIGNAL 5-14	SIGNAL 7-14	SIGNAL 12-14	SIGNAL 15-14	SIGNALS 10
			CABLE TRAFFIC	CABLE TRAFFIC	CABLE TRAFFIC	CABLE TRAFFIC	CABLE TRAFFIC	WIRETRAFFIC
			033.0210	033.0230	055.0240	033.0200	055.0270	ELECTRICAL
			655.0210	655.0230	655.0240	655.0260	655.0270	655.0515
			(PUSH BUTTON**)	*	*	*	*	*

^{*}ADDITIONAL QUANTITIES ELSEWHERE

PROJECT NO: 2984-07-76 HWY: CTH PP COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET E

^{**}FOR INFORMATION ONLY

^{**}FOR INFORMATION ONLY

			(PUSH BUTTON**)				
			*	*	*	*	*
			655.0210	655.0230	655.0240	655.0260	655.0515
							ELECTRICAL
			CABLE TRAFFIC	CABLE TRAFFIC	CABLE TRAFFIC	CABLE TRAFFIC	WIRE TRAFFIC
			SIGNAL 3-14	SIGNAL 5-14	SIGNAL 7-14	SIGNAL 12-14	SIGNALS 10
LOCATION			AWG	AWG	AWG	AWG	AWG
FROM	THROUGH	TO	LF	LF	LF	LF	LF
V. GOOD HOPE R	D (CTH PP) & N. 86TH ST						
CB1	PB1, PB2, PB3, PB4	SB4				135	
CB1	PB1, PB2, PB3, PB4, PB5, PB6, PB7	SB6				295	10
CB1	PB1, PB2, PB3, PB4, PB5, PB6, PB7	SB7			295		
CB1	PB1, PB13, PB12, PB11, PB10	SB11				210	
CB1	PB1, PB13	SB13				65	
CB1	PB1	SB14				50	20
	BASE TO SIGNAL HEAD CABLING		10	30	415		
	UNDISTRIBUTED		10	10	190	145	10
	W. GOOD HOPE RD (CTH PP) & N. 86TH ST	SUBTOTAL:	20	40	900	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF 135 295 210 65 50	40
		CATEGORY	0010	0010	0010	0010	0010

^{*}ADDITIONAL QUANTITIES ELSEWHERE

TRAFFIC SIGNAL CABLE AND ELECTRICAL WIRING

			*	*	*	*
			655.0230	655.0240	655.0260	655.0515 ELECTRICAL
			CABLE TRAFFIC	CABLE TRAFFIC	CABLE TRAFFIC	WIRE TRAFFIC
			SIGNAL 5-14	SIGNAL 7-14	SIGNAL 12-14	SIGNALS 10
LOCATION			AWG	AWG	AWG	AWG
FROM	THROUGH	TO	LF	LF	LF	LF
W. GOOD HOPE	RD (CTH PP) & UIHLEIN SOCCER PARK					_
CB1	PB1	SB1			30	15
CB1	PB1, PB2, PB3	SB3			130	
CB1	PB1, PB2, PB3	SB4			130	
CB1	PB1, PB2, PB3, PB4, PB5	SB5			280	25
	BASE TO SIGNAL HEAD CABLING		30	335		
	UNDISTRIBUTED		10	65	130	10
	W. GOOD HOPE RD (CTH PP) & UIHLEIN SOCCER PARK	SUBTOTAL:	40	400	700	50
		CATEGORY	0010	0010	0010	0010

^{*}ADDITIONAL QUANTITIES ELSEWHERE

PROJECT NO: 2984-07-76 HWY: CTH PP COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET	E
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^{**}FOR INFORMATION ONLY

TRAFFIC SIGNAL CABLE AND ELECTRICAL WIRING

			(PUSH BUTTON**))				
			*	*	*	*	*	*
			655.0210	655.0230	655.0240	655.0260	655.0270	655.0515
								ELECTRICAL
			CABLE TRAFFIC	CABLE TRAFFIC	CABLE TRAFFIC	CABLE TRAFFIC	CABLE TRAFFIC	WIRETRAFFIC
			SIGNAL 3-14	SIGNAL 5-14	SIGNAL 7-14	SIGNAL 12-14	SIGNAL 15-14	SIGNALS 10
LOCATION			AWG	AWG	AWG	AWG	AWG	AWG
FROM	THROUGH	TO	LF	LF	LF	LF	LF	LF
W. GOOD HOPI	E RD (CTH PP) & N. 60TH ST							
CB1	PB1	SB1					30	
CB1	PB1, PB2, PB3, PB4	SB3				135		10
CB1	PB1, PB2, PB3, PB4, PB5	SB4				170		
CB1	PB1, PB2, PB3, PB4, PB5, PB6, PB7, PB8	SB6				330		10
CB1	PB1, PB14, PB13, PB12, PB11	SB8					220	
CB1	PB1, PB14, PB13, PB12	SB10				155		20
CB1	PB1, PB14	SB11				65		20
	BASE TO SIGNAL HEAD CABLING		15	40	650			
	UNDISTRIBUTED		15	20	150	145	150	10
	W. GOOD HOPE RD (CTH PP) & N. 60TH ST	SUBTOTAL:	30	60	800	1,000	400	70
		CATEGORY	0010	0010	0010	0010	0010	0010

^{*}ADDITIONAL QUANTITIES ELSEWHERE

CONCRETE SIDEWALK ITEMS

ONDISTINIDO									
UNDISTRIBU	JTED	8	50	70	2		1	5	10
SUBTOTAL		37	200	130	12	1	-	25	60
0010									
0010	W. GOOD HOPERD (CTH PP) & N. 86TH ST	9	80	-	=	-	-	-	15
0010	W. GOOD HOPERD (CTH PP) & N. 91ST ST	28	120	130	12	1	-	25	45
CATEGORY	LOCATION	SY	SF	SF	SF	EACH	EACH	LF	LF
		204.0155 REMOVING CONCRETE SIDEWALK	602.0410 CONCRETE SIDEWALK 5- INCH	602.0420 CONCRETE SIDEWALK 7- INCH	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA	650.9000 CONSTRUCTION STAKING CURB RAMPS	650.9500.01 CONSTRUCTION STAKING SIDEWALK (PROJECT) (01. 2984-07-76)	690.0150 SAWING ASPHALT	690.0250 SAWING CONCRETE

	PROJECT NO: 2984-07-76	HWY: CTH PP	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET	E	1
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^{**}FOR INFORMATION ONLY

TRAFFIC SIGNAL BASES, STANDARDS, POLES, MAST ARMS, FACES, AND EQUIPMENT

CATEGORY	LOCATION	NO.	657.0100 PEDESTAL BASES EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15- FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10- FT EACH	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16- INCH EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH
						-		_	
0010	W. GOOD HOPE RD (CTH PP) & N. 99TH ST	SB1	4	4		2		1	4
0010		SB3	1	1		2	4	1	1
0010		SB6					1		
0010		SB7				2	1	4	
0010		SB8				2		1	
0010		SB14					1		
0010		SB15					1		
0010	W. GOOD HOPE RD (CTH PP) & N. 91ST ST	SB1					1		
0010		SB3				2	1		
0010		SB5					1		
0010		SB6				3	1	1	1
0010		SB7					1		
0010		SB8	1	1			1		1
0010		SB9				2			
0010		SB11					1		
0010		SB12				3	1		
0010		SB13	1		1			2	1
0010	W. GOOD HOPE RD (CTH PP) & N. 86TH ST	SB4					1		
0010		SB5					1		
0010		SB6				3			
0010		SB7	1		1			1	1
0010		SB11					1		
0010		SB12					1		
0010		SB13	1		1			1	1
0010		SB14				3			
0010	W. GOOD HOPE RD (CTH PP) & UIHLEIN SOCCER PARK	SB1				3		1	
0010		SB3						1	
0010		SB4					1		
0010		SB5				3	1		
0010	W. GOOD HOPE RD (CTH PP) & N. 60TH ST	SB1					1	1	
0010		SB2	1		1			1	1
0010		SB3				2	1		
0010		SB4					1		
0010		SB5					1		
0010		SB6				3		1	
0010		SB7					1		
0010		SB8	1	1		1	1	2	2
0010		SB9					1		
0010		SB10				2	1		
0010		SB11				3			
0010									
		TOTAL 0010	7	3	4	39	26	15	9

PROJECT NO: 2984-07-76 HWY: CTH PP COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET E

CONCRETE BASES, POLES, AND MAST ARMS

			654.0113	654.0120	657.0347	657.0352	657.0355	657.0360	657.0541 MONOTUBE	657.0546 MONOTUBE	657.0555	657.0815 LUMINAIRE
			CONCRETE BASES	CONCRETE BASES	POLES TYPE 9-	POLES TYPE 10-			ARMS 40-FT-	ARMS 45-FT-	MONOTUBE	ARMS STEEL 15-
			TYPE 13	TYPE 10-SPECIAL	SPECIAL	SPECIAL	POLES TYPE 12	POLES TYPE 13	SPECIAL	SPECIAL	ARMS 55-FT	FT
CATEGORY	LOCATION	NO.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
0010	W. GOOD HOPE RD (CTH PP) & N. 99TH ST	SB1		1		1				1		1
0010		SB8		1		1				1		1
0010	W. GOOD HOPE RD (CTH PP) & N. 91ST ST	SB3		1		1				1		1
0010		SB6	1					1			1	1
0010		SB9		1		1			1			1
0010		SB12	1					1			1	1
0010	W. GOOD HOPE RD (CTH PP) & N. 86TH ST	SB6		1		1				1		1
0010		SB14	1					1			1	1
0010	W. GOOD HOPE RD (CTH PP) & UIHLEIN SOCCER PARK	SB1		1	1					1		
0010		SB5	1				1				1	
0010	W. GOOD HOPE RD (CTH PP) & N. 60TH ST	SB3		1	1					1		
0010		SB6		1	1					1		
0010		SB10		1		1				1		1
0010		SB11		1	1					1		
0010												
	TOTAL 0010		4	10	4	6	1	3	1	9	4	9

FIBER, CONDUIT ENTRANCES, AND CAMERA CABLE

		652.0700.S	678.0400	SPV.0090.01	SPV.0090.02 SPECIAL (02.	SPV.0090.03 SPECIAL
		INSTALL		SPECIAL (01.	REMOVE AND	(FURNISH AND
		CONDUITINTO	FIBER OPTIC	TRACER WIRE,	REINSTALL FIBER	INSTALL CAMERA
		EXISTING ITEM	TERMINATION	12 AWG)	OPTIC CABLE)	CABLE)
CATEGORY	LOCATION	EACH	EACH	LF	LF	LF
0010	W. GOOD HOPE RD (CTH PP) & N. 99TH ST	4	4	60	60	400
0010	W. GOOD HOPE RD (CTH PP) & N. 91ST ST	6	4	60	60	
0010	W. GOOD HOPE RD (CTH PP) & N. 86TH ST	2				350
0010	W. GOOD HOPE RD (CTH PP) & UIHLEIN SOCCER PAR	2				700
0010	W. GOOD HOPE RD (CTH PP) & N. 60TH ST	4				
0010	_					
	TOTAL 0010	18	8	120	120	1,450

PROJECT NO: 2984-07-76	HWY: CTH PP	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET	E	
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FILE NAME: PLOT DATE: PLOT BY:

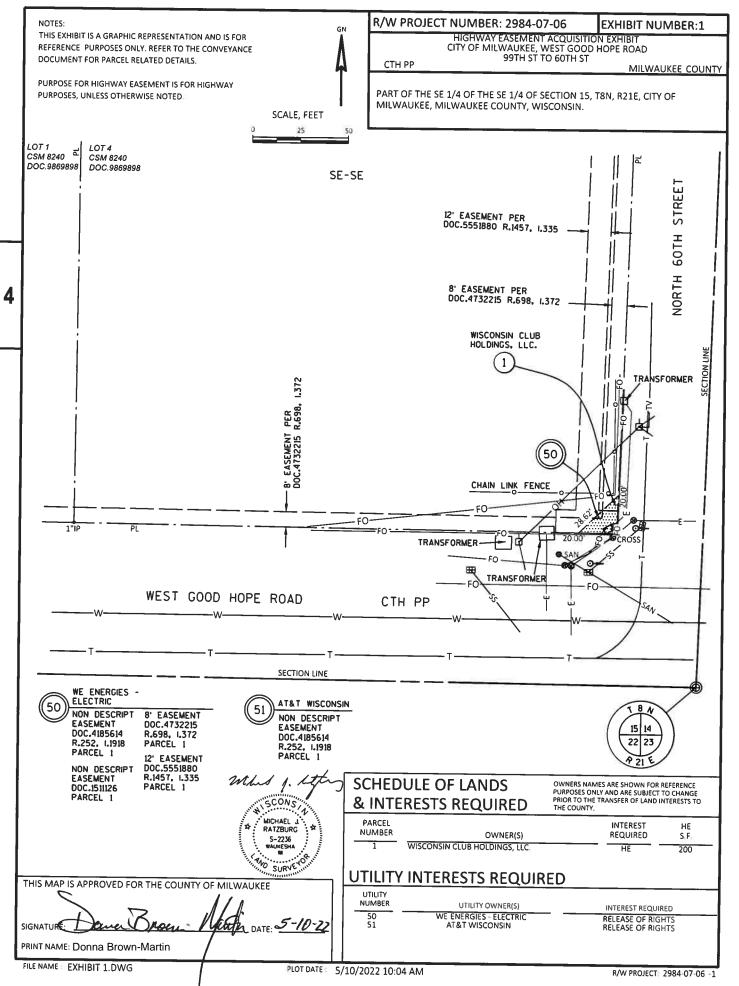
TRAFFIC SIGNAL ITEMS

		204.9060.S.01	658.5070.01	658.5070.02	658.5070.03	658.5070.04	658.5070.05	661.0201.01	661.0201.02	661.0201.03	661.0201.04	661.0201.05	SPV.0060.01	SPV.0060.02	SPV.0060.03	SPV.0060.04	SPV.0060.07
		REMOVING						TEMPORARY	TEMPORARY	TEMPORARY	TEMPORARY	TEMPORARY					
		(ITEM	SIGNAL	SIGNAL	SIGNAL	SIGNAL	SIGNAL	TRAFFIC SIGNALS	SPECIAL			SPECIAL					
		DESCRIPTION)	MOUNTING	MOUNTING	MOUNTING	MOUNTING	MOUNTING	FOR	FOR	FOR	FOR	FOR	(REMOVE AND		SPECIAL	(TRANSPORT	SPECIAL
		(01. TRAFFIC	HARDWARE	HARDWARE	HARDWARE	HARDWARE	HARDWARE	INTERSECTIONS	INTERSECTIONS	INTERSECTIONS	INTERSECTIONS	INTERSECTIONS	REINSTALL		(TRANSPORT	AND INSTALL	(REMOVE AND
		SIGNAL	(LOCATION) (01.	(LOCATION) (02.	(LOCATION) (03.	(LOCATION) (04.	(LOCATION) (05.	(LOCATION) (01.	(LOCATION) (02.	(LOCATION) (03.	(LOCATION) (04.	(LOCATION) (05.	VIDEO	SPECIAL	AND INSTALL 4-	FISHEYE AND 2-	REINSTALL
		EQUIPMENT AT	CTH PP & 99TH	CTH PP & 91ST	CTH PP & 86TH	CTH PP &	CTH PP & 60TH	CTH PP & 99TH	CTH PP & 91ST	CTH PP & 86TH	CTH PP &	CTH PP & 60TH	DETECTION	(CABINET	CAMERA	CAMERA	TROMBONE
		INTERSECTION)	ST)	ST)	ST)	UIHLEIN)	ST)	ST)	ST)	ST)	UIHLEIN)	ST)	CAMERA)	MODIFICATION)	SYSTEM)	SYSTEM)	ARM)
CATEGOR'	/ LOCATION	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
0010	W. GOOD HOPE RD (CTH PP) & N. 99TH ST	1	1					1					1	1			2
0010	W. GOOD HOPE RD (CTH PP) & N. 91ST ST	1		1					1					1	1		
0010	W. GOOD HOPE RD (CTH PP) & N. 86TH ST	1			1					1			1	1			2
0010	W. GOOD HOPE RD (CTH PP) & UIHLEIN SOCCER PARK	1				1					1		1	1			
0010	W. GOOD HOPE RD (CTH PP) & N. 60TH ST	1					1					1		1		1	
0010																	
	TOTAL 0010	5	1	1	1	1	1	1	1	1	1	1	3	5	1	1	4

MISCELLANEOUS ITEMS

		213.0100.01	619.1000	642.5001	650.8501.01 CONSTRUCTION STAKING	650.9911.01 CONSTRUCTION STAKING	SPV.0035.01	SPV.0060.06
					ELECTRICAL	SUPPLEMENTAL		
		FINISHING			INSTALLATIONS	CONTROL	SPECIAL	SPECIAL (UTILITY
		ROADWAY (01.		FIELD OFFICE	(PROJECT) (01.	(PROJECT) (01.	(BACKFILL	LINE OPENING
		2984-07-76)	MOBILIZATION	TYPE B	2984-07-76)	2984-07-76)	SLURRY)	(ULO))
CATEGORY	LOCATION	EACH	EACH	EACH	EACH	EACH	CY	EACH
0010	UNDISTRIBUTED	1	1	1	1	1	9	10
	TOTAL 0010	1	1	1	1	1	9	10

	PROJECT NO: 2984-07-76	HWY: CTH PP	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET	E	l
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R:1			
SECTION LINE			
GE GE TO			
7-06 -1			

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Standard Detail Drawing List

08D05-20A 08D05-20B 08D05-20C 08D05-20D 08D05-20E 08D05-20F 08D05-20G 08E10-02	CURB RAMPS TYPES 1 AND 1-A CURB RAMPS TYPES 2 AND 3 CURB RAMPS TYPES 4A AND 4A1 CURB RAMPS TYPE 4B AND 4B1 CURB RAMPS TYPE 4B AND 4B1 CURB RAMPS TYPES 5, 6, 7A, 7B & 8 CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES INLET PROTECTION TYPE A, B, C AND D
09в02-10	CONDUIT
09C03-04	TRANSFORMER/PEDESTAL BASES
09C12-09A	CONCRETE BASE TYPE 13
09С12-09В	CONCRETE BASE TYPE 13
09C15-01	CONCRETE BASE TYPE 10 SPECIAL
09E01-15A	POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2
09E01-15B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E01-15C	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-09D	TYPE 9 SPECIAL POLE 45' MONOTUBE ARM
09E08-09G	TYPE 10 SPECIAL POLE 40' MONOTUBE ARM
09Е08-09Н	TYPE 10 SPECIAL POLE 45' MONOTUBE ARM
09E08-09I	TYPE 12 POLE 35'-55' MONOTUBE ARM
09E08-09J	TYPE 13 POLE 35'-55' MONOTBE ARM
09E08-09K	GENERAL NOTES, HARDWARE DETAILS FOR TYPE 9/10,9/10 SPECIAL, 12 & 13 POLES W/MONOTUBE ARMS
09G01-04A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-22A	LONGITUDINAL MARKING (MAINLINE)
15C08-22D	PAVEMENT MARKING (TURN LANES)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D20-06A 15D20-06B	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D20-06B	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D20-00C 15D21-07A	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXFRESSWAY TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07A 15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21 07B	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D22 03 15D23-07A	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D23-07B	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D30-07A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-07C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07E	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

VIEW D - D FOR TYPE 1 - A

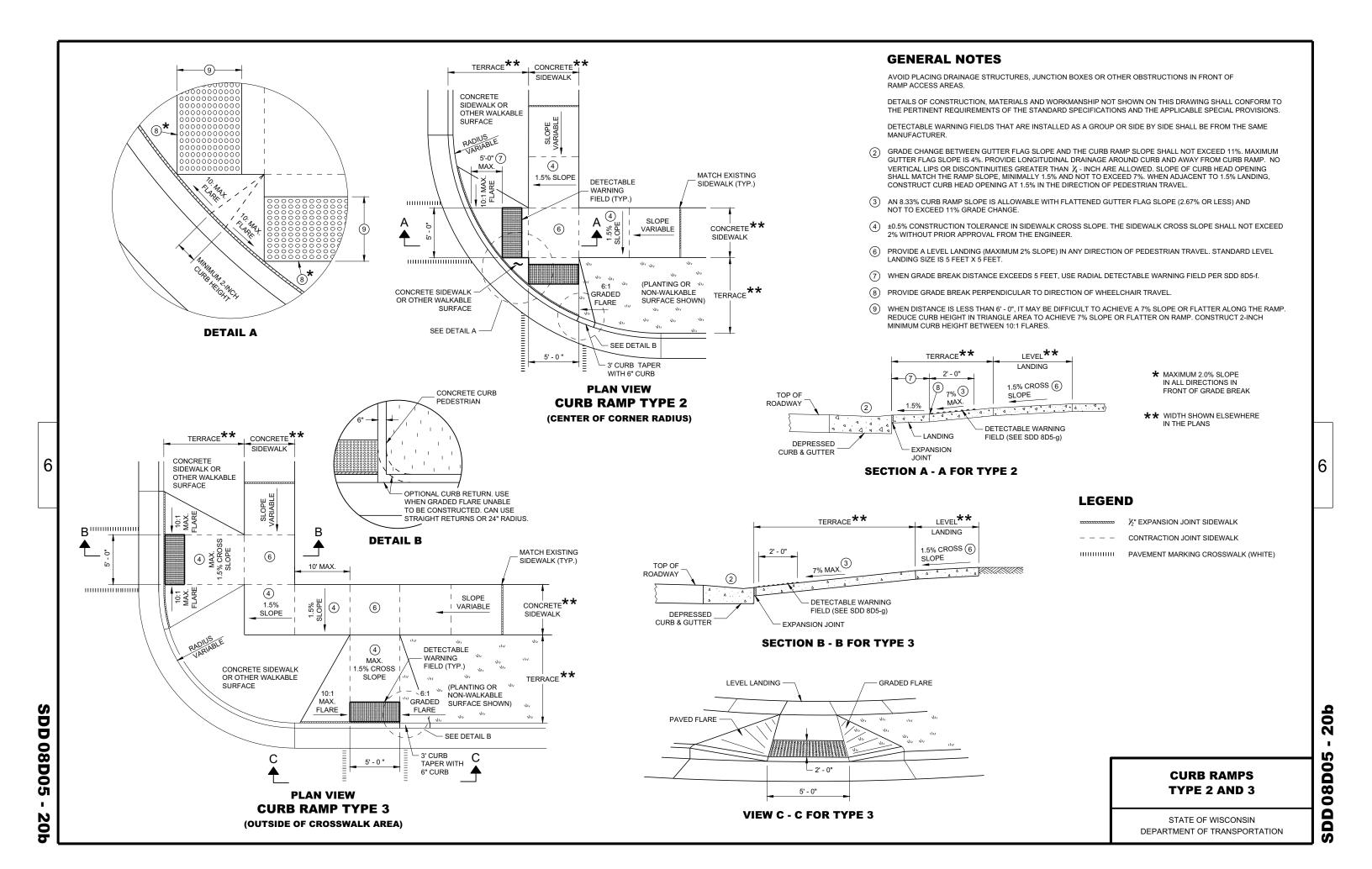
SECTION B - B FOR TYPE 1

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STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION



AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

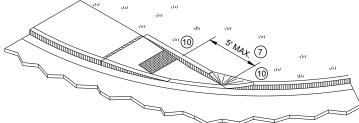
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

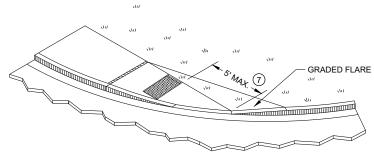
- ② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN $\frac{1}{4}$ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE
- (3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
- (4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT
- (6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING
- (7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.
- (8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- (10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

½" EXPANSION JOINT SIDEWALK CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



ISOMETRIC VIEW FOR TYPE 4A

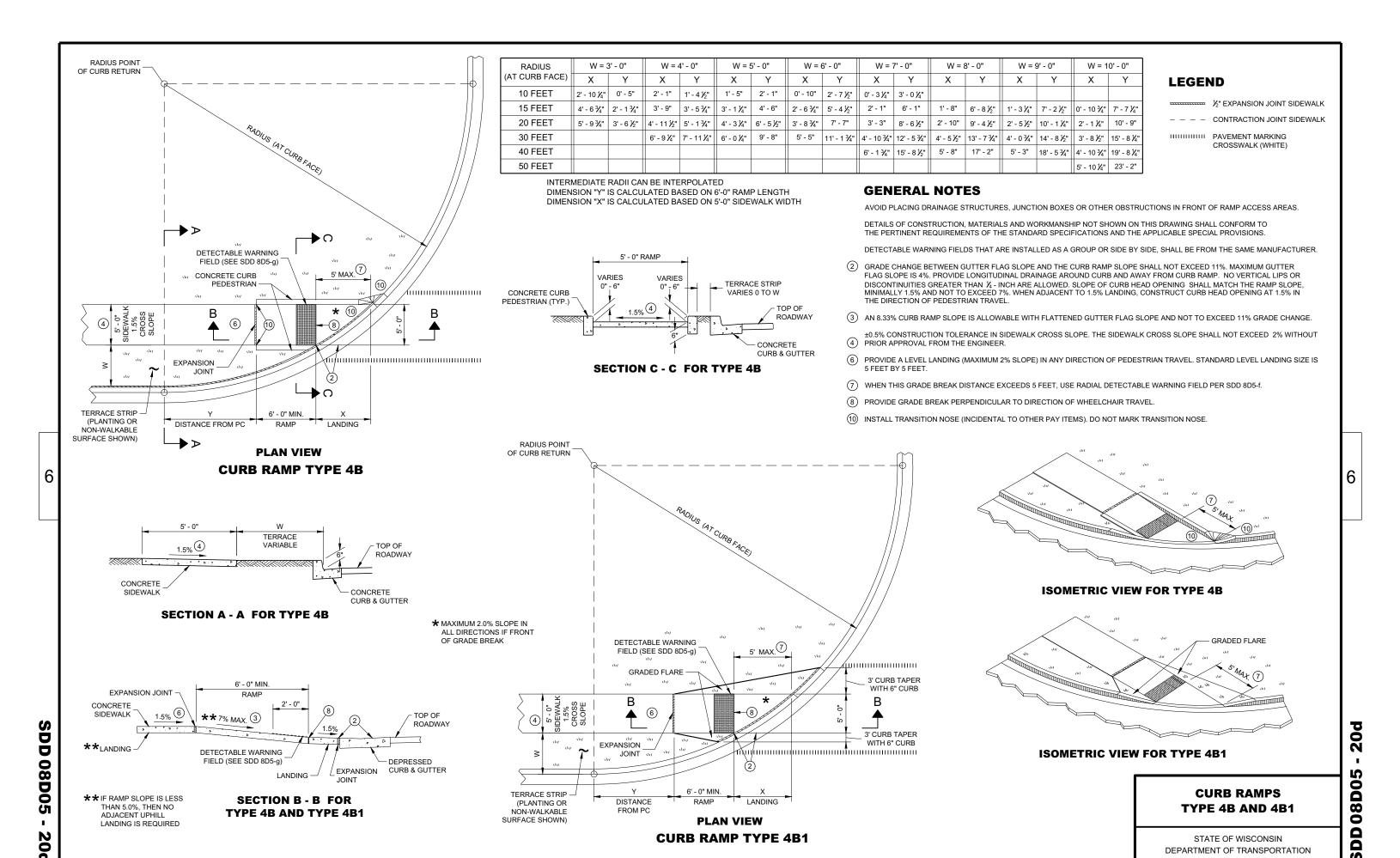


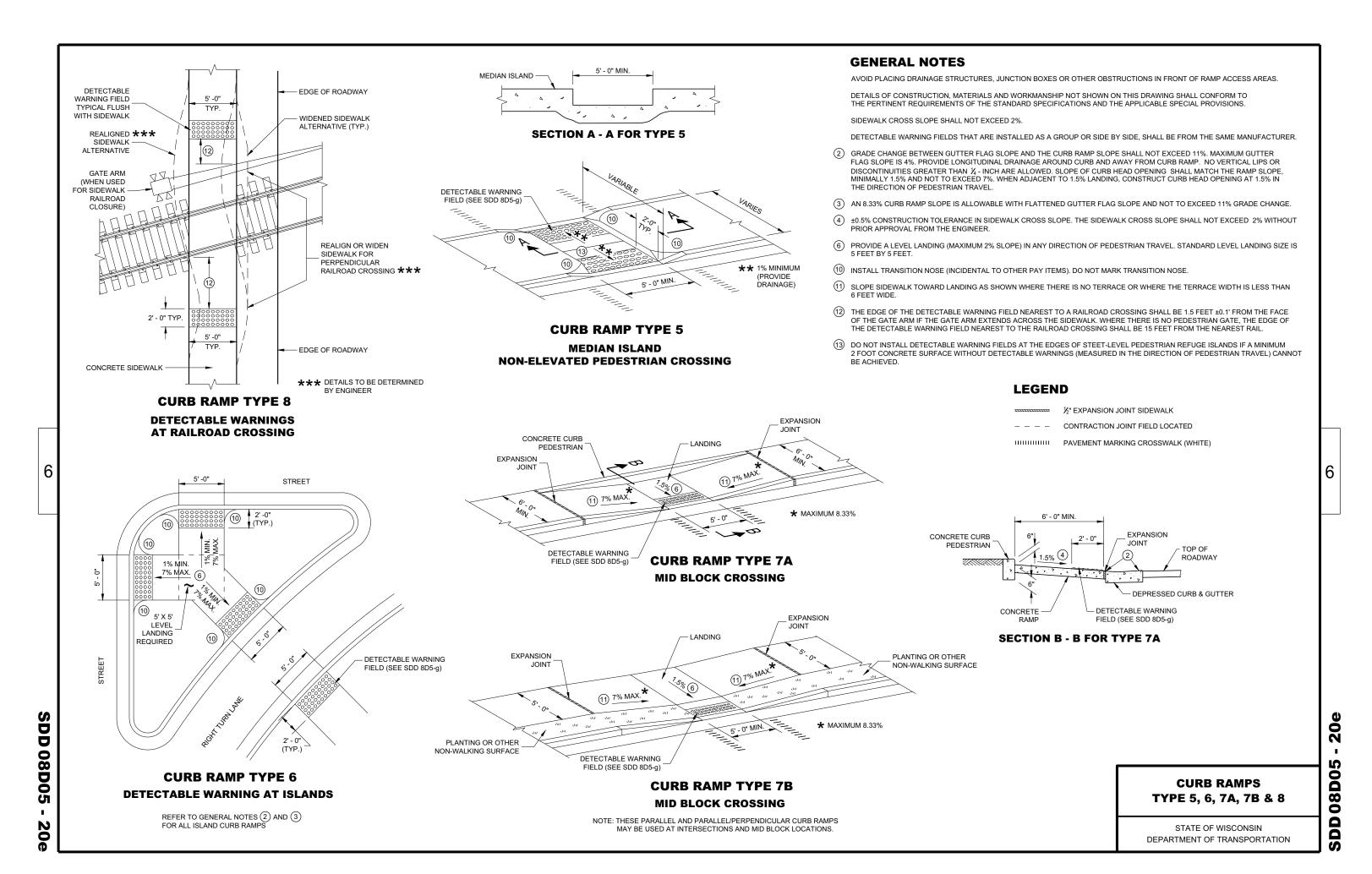
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS TYPE 4A AND 4A1

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

08D0 SDD





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08D05

20f

RADIAL DETECTABLE WARNING

IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO

LANDING IS REQUIRED

ADJACENT UPHILL

FIELD (SEE SDD 8D5-a)

SECTION B - B FOR TYPE 4B1

DEPRESSED CURB & GUTTER

*** MAXIMUM 8.33%

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RADIAL DETECTABLE WARNING **FIELD APPLICATIONS**

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PLAN VIEW

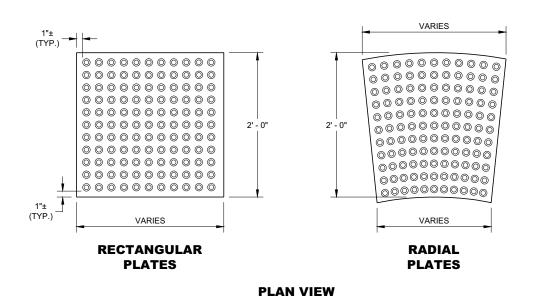
MIN. MAX. 1.6" 2.4" В 0.65" 1.5" С * 0.9" 1.4"

★ THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

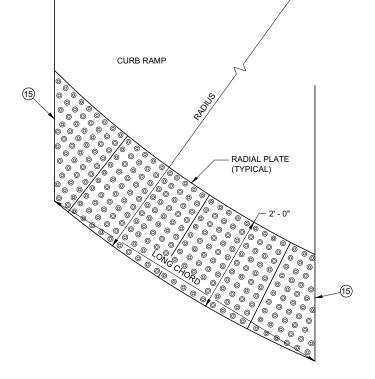


ELEVATION VIEW

TRUNCATED DOMES DETECTABLE WARNING PATTERN DETAIL



DETECTABLE WARNING FIELDS (TYPICAL)



GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER. PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER

(fs) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING

THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

PLAN VIEW RADIAL DETECTABLE WARNING FIELD ATTRIBUTES

RECTANGULAR PLATE \bigcirc 0 \bigcirc RECTANGULAR PLATE \bigcirc \bigcirc (TYPICAL) 0

PLAN VIEW RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

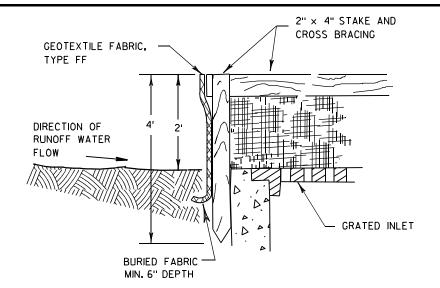
APPROVED

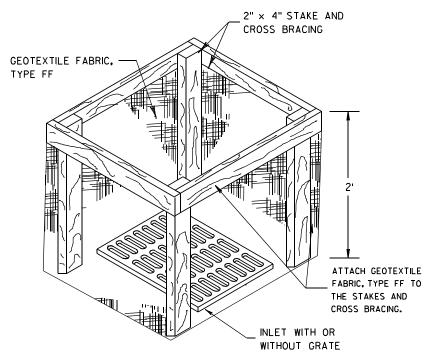
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR May 2019
DATE

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INLET PROTECTION, TYPE A

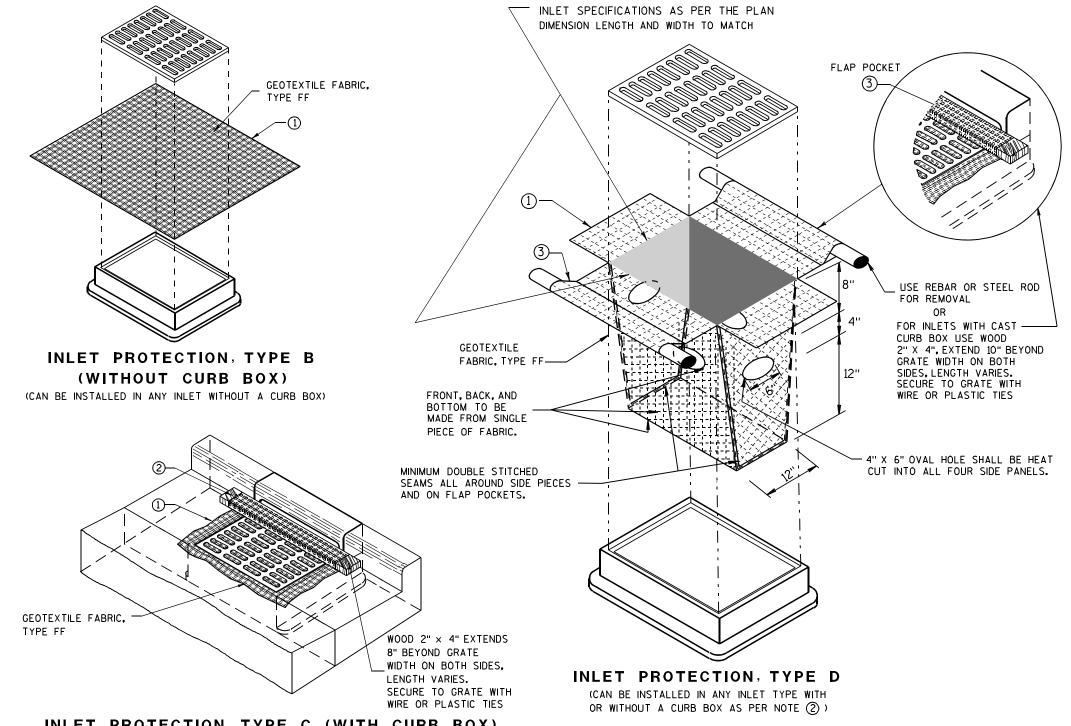
GENERAL NOTES

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

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APPROVED

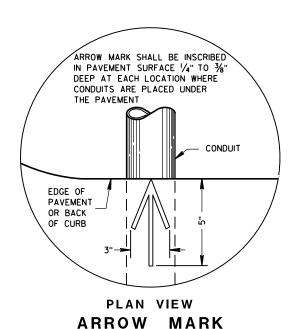
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

10/16/02

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ARROW MARK INSCRIBED IN PAVEMENT SURFACE OVER € OF CONDUIT (BOTH ENDS) — 2'-0"*—*∕ NORMAL PAVEMENT EDGE OF THICKNESS **PAVEMENT** PAVEMENT OR BACK OF CURB BASE COURSE BACKFILL SLOPE 1/8"/FT. EITHER DIRECTION *DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES - CONDUIT, PITCH TO DRAIN WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L.LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REIN-STALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

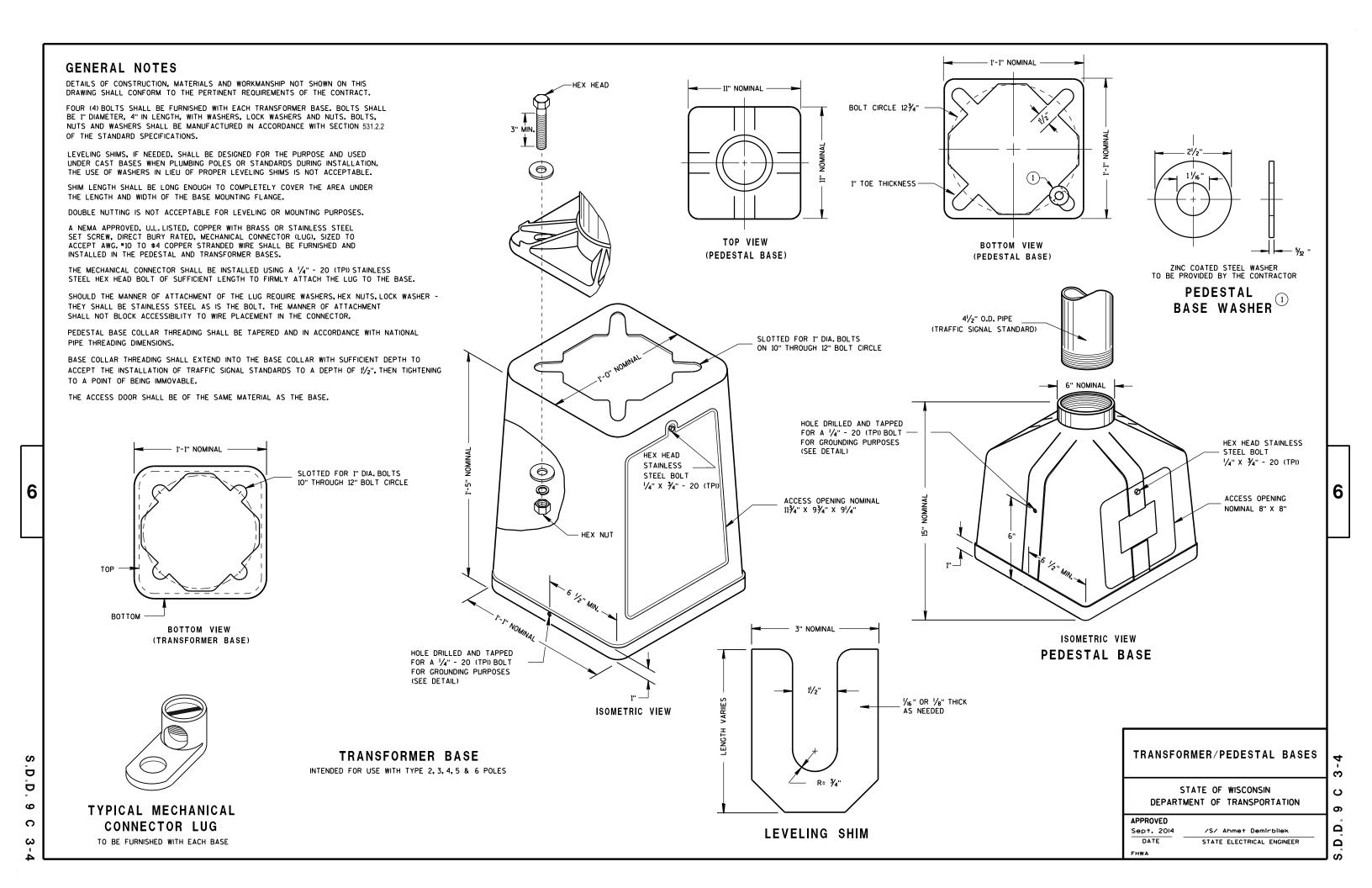
TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
March, 2017	/S/ Ahmet Demirbilek
DATE	STATE ELECTRICAL ENGINEER



BASES (SHAFT), BELOW THE WING, SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

CONDUIT SIZE AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASE SHALL BE 4 ½ INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTOR FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

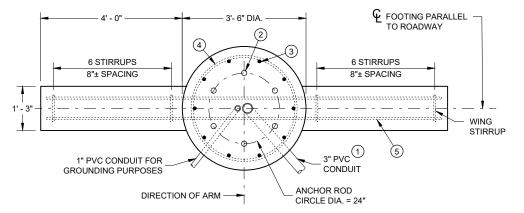
A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1-INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4-FOOT COIL OF WIRE ABOVE THE CONCRETE BASE, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

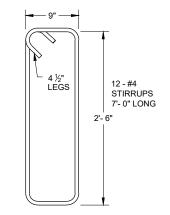
THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

- THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVEL WAY SHALL BE 24-INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18-INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36-INCHES, (GREATER THAN 36-INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.
- (2) (6) 1 3/4" DIA. X 7' 2" ANCHOR RODS
- (10) NO. 6 X 14' 1" BAR STEEL VERTICAL REINFORCEMENT.
- (4) (22) NO. 5 X 11'- 0" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.
- (5) (10) NO. 5 X 11' 0" BAR STEEL HORIZONTAL REINFORCEMENT

CONCRETE MASONRY	fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE	fy = 55,000 p.s.i.
WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION)	
TEMPLATES, ASTM A709, GRADE 36	fy = 36,000 p.s.i.

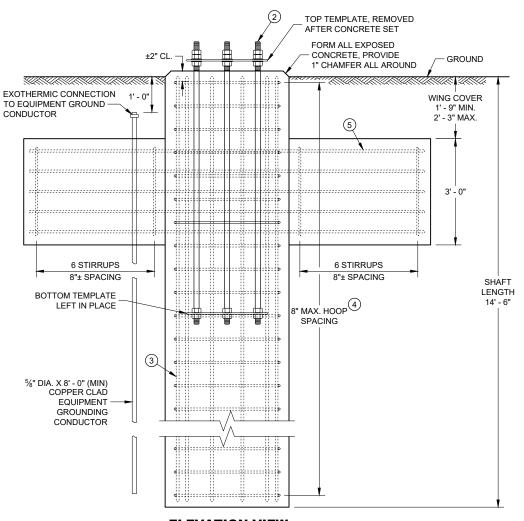


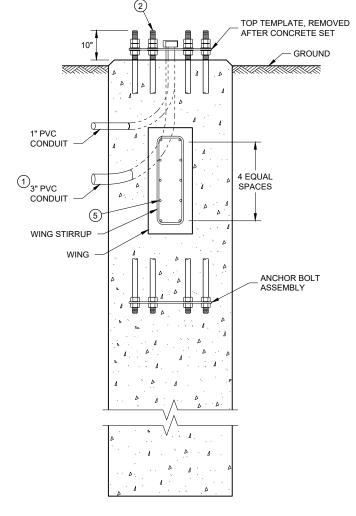




PLAN VIEW

WING STIRRUP DETAIL





ELEVATION VIEW (CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)

(HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY)

CONCRETE BASE, TYPE 13 (FOR TYPE 12, TYPE 13 AND OVER HEIGHT (OH) POLES)

CONCRETE = 6.3 CUBIC YARD H.S. REINFORCEMENT = 635 LBS.

TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE 9C13 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION

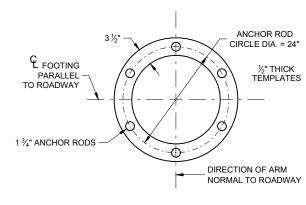
CONCRETE BASE TYPE 13

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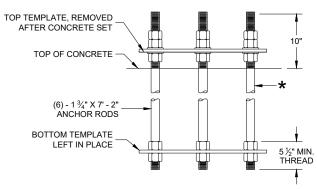
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

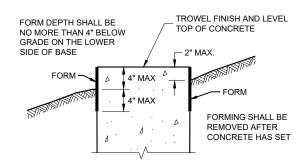


TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

★ THREAD TOP 11" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.



FORMING DETAIL

CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2017 /S/ Ahmet Demirbilek
DATE WIND LOADED STRUCTURES
PROGRAM LEADER

THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR RODS STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE

FORM ALL EXPOSED CONCRETE CORNERS WITH 1" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 ½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

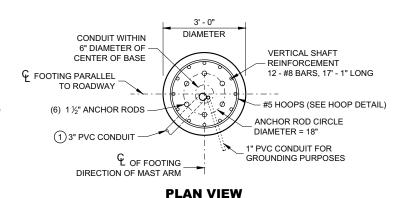
WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

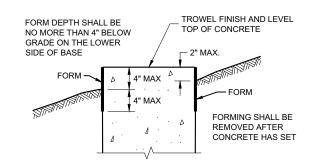
THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

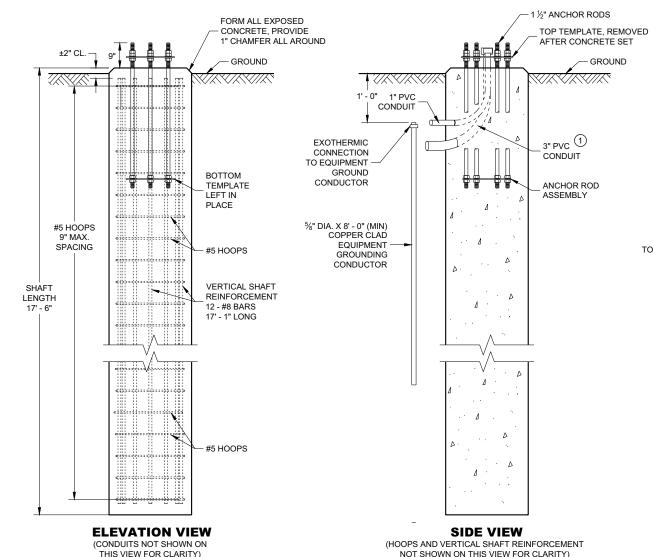


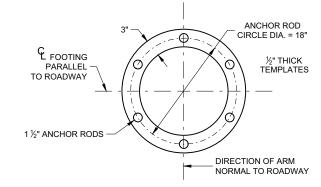




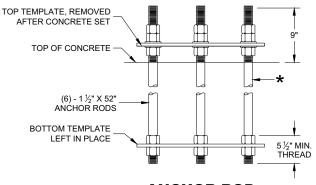
HOOF DETAIL

FORMING DETAIL





TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

★ THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE, TYPE 10 SPECIAL (FOR TYPE 9 SPECIAL AND TYPE 10 SPECIAL POLES)

CONCRETE = 4.6 CUBIC YARD H.S. REINFORCEMENT = 779 LBS.

FOR USE WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 10 SPECIAL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

 APPROVED

 August 2020
 /S/ Alex Crabtree

 DATE
 WIND LOADED STRUCTURES PROGRAM LEADER

SDD 09C15-01

6

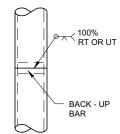
DD 09C15-

SECTION A-A (10 DEGREES TILT REQUIREMENT OF FACE(S) IN THE TROMBONE MOUNTING)

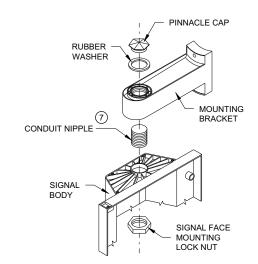
■ ADJUSTABLE TO 6' -6" MIN. —

FOR MANUFACTURERS USE ONLY

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN / BRIDGE FOR VERIFICATION AND APPROVAL.



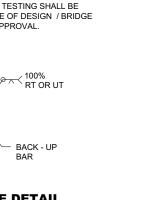
(MAXIMUM LOAD)



SIGNAL FACE MOUNTING DETAIL (BANDED)



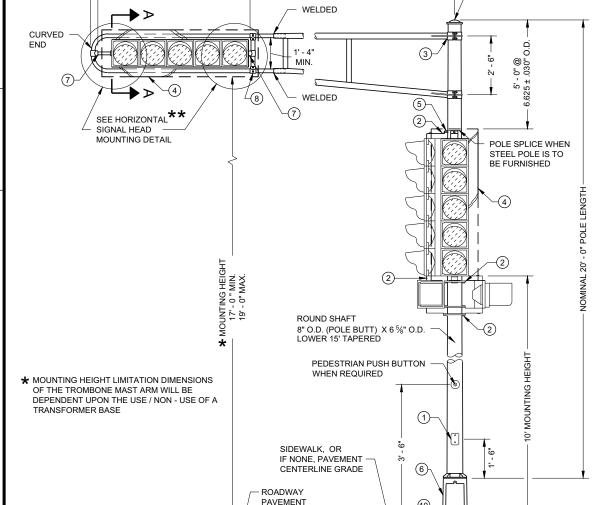
VARIABI F 25' - 0" LENGTH FOR DESIGN CALCULATION

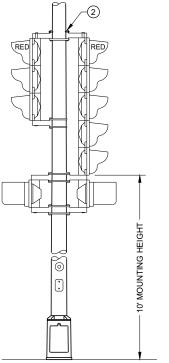


VENTILATED 9 METALLIC

CAP AND BOLT

POLE SPLICE DETAIL





TYPICAL MOUNTING OF BACK TO BACK **3 AND 5 SECTION SIGNAL FACES**

GENERAL NOTES

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

POLES SHALL BE EITHER ALUMINUM OR GALVANIZED STEEL AS CALLED FOR IN THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

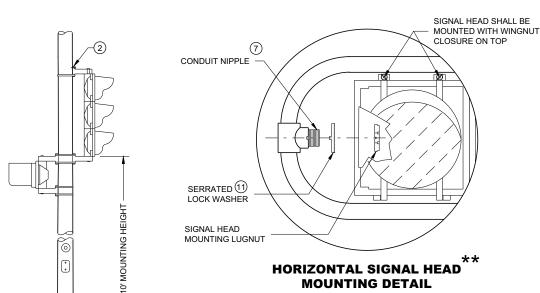
TYPE 2 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE

- 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) $\mbox{$\chi$}$ " 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.
- SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.
- ③ GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 %" HOLE IN POLE SHAFT FOR WIRING.
- (4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS
- (5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) ASREQUIRED, TO PLUMB THE SIGNAL FACES.
- (6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

SIGNAL FACE

- (7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOTINTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS
- (%) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¾" X ¾" 20 TPI STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUTIS THE SLIDING TYPE.
- 9 FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) $\frac{1}{4}$ " X $\frac{3}{4}$ " - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
- (1) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.
- (11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.



** SIGNAL HEAD ATTACHMENT ALSO APPLIES TO MOUNTING AT CROSS BAR

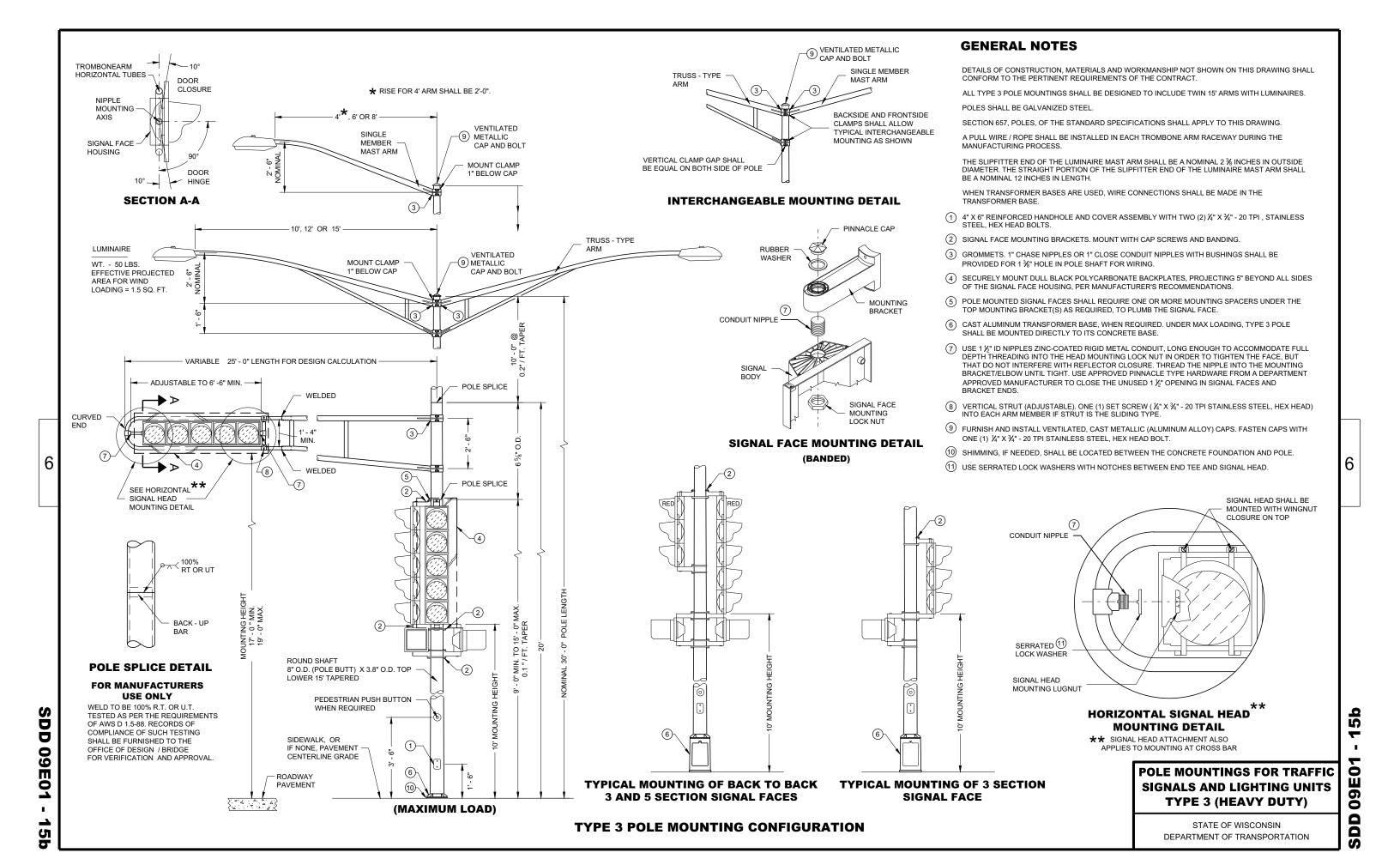
POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

TYPICAL MOUNTING OF 3 SECTION

TYPE 2 POLE MOUNTING CONFIGURATION



TYPE 4 POLE MOUNTING CONFIGURATION

SDD 09E

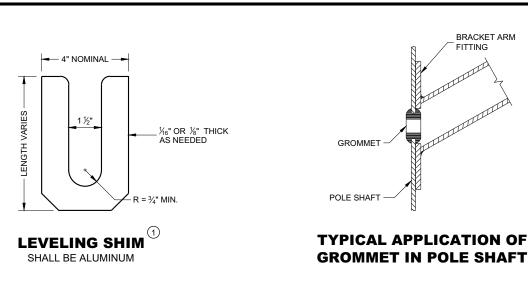
DEPARTMENT OF TRANSPORTATION

STATE OF WISCONSIN



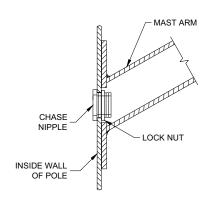






GUSSETS REQUIRED

BOLTS ENTIRE LENGTH



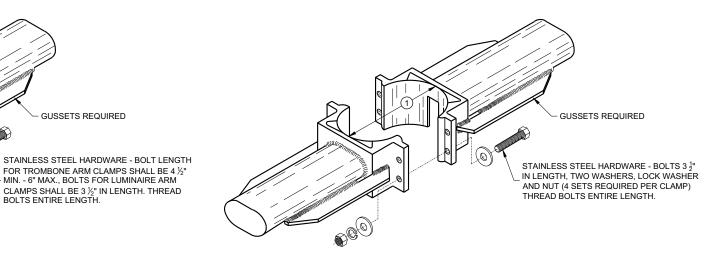
TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

- (1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.
- (2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)
- 3 BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER
- 4 LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC

SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

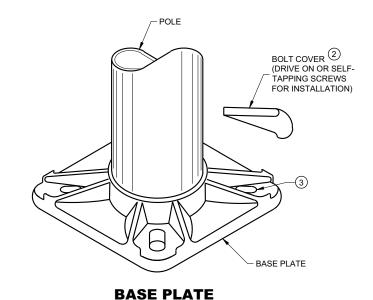


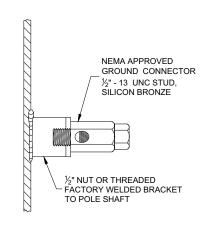
"J " HOOK DOOR SIDE HOOK FACTORY 1 g" RACEWAY HOLE - OPPOSITE WELDED TO POLE DOOR (180° SIDE) IF CALLED FOR

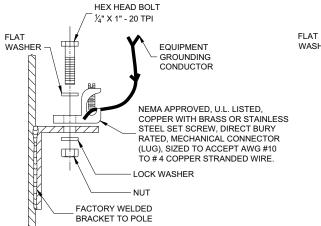
TYPICAL "J" HOOK LOCATION

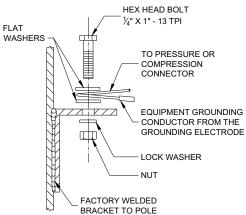
TYPICAL TROMBONE MAST ARM AND SINGLE **LUMINAIRE MAST ARM MOUNTING CLAMP**

TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS









TYPICAL GROUNDING CONNECTIONS

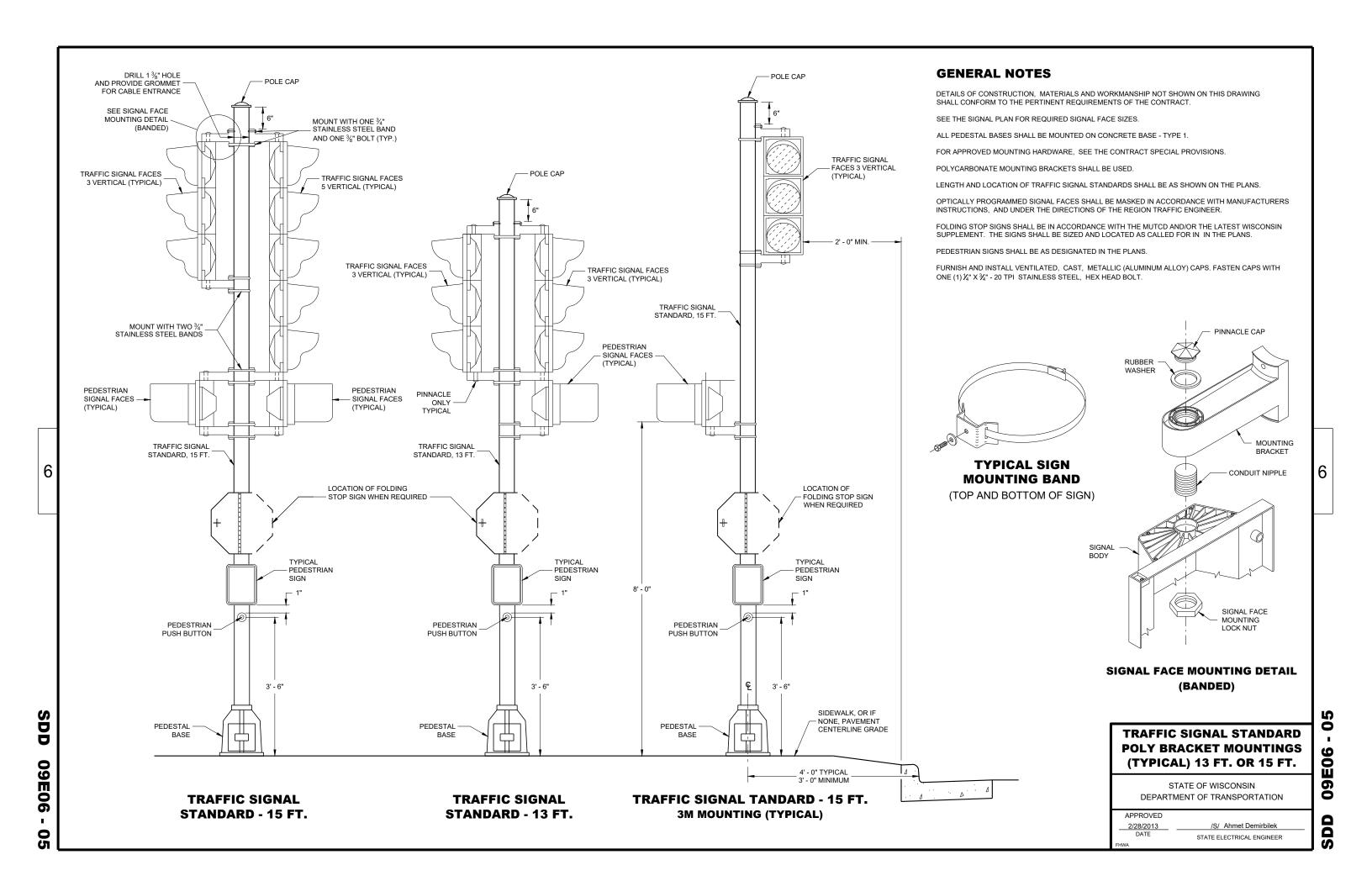
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

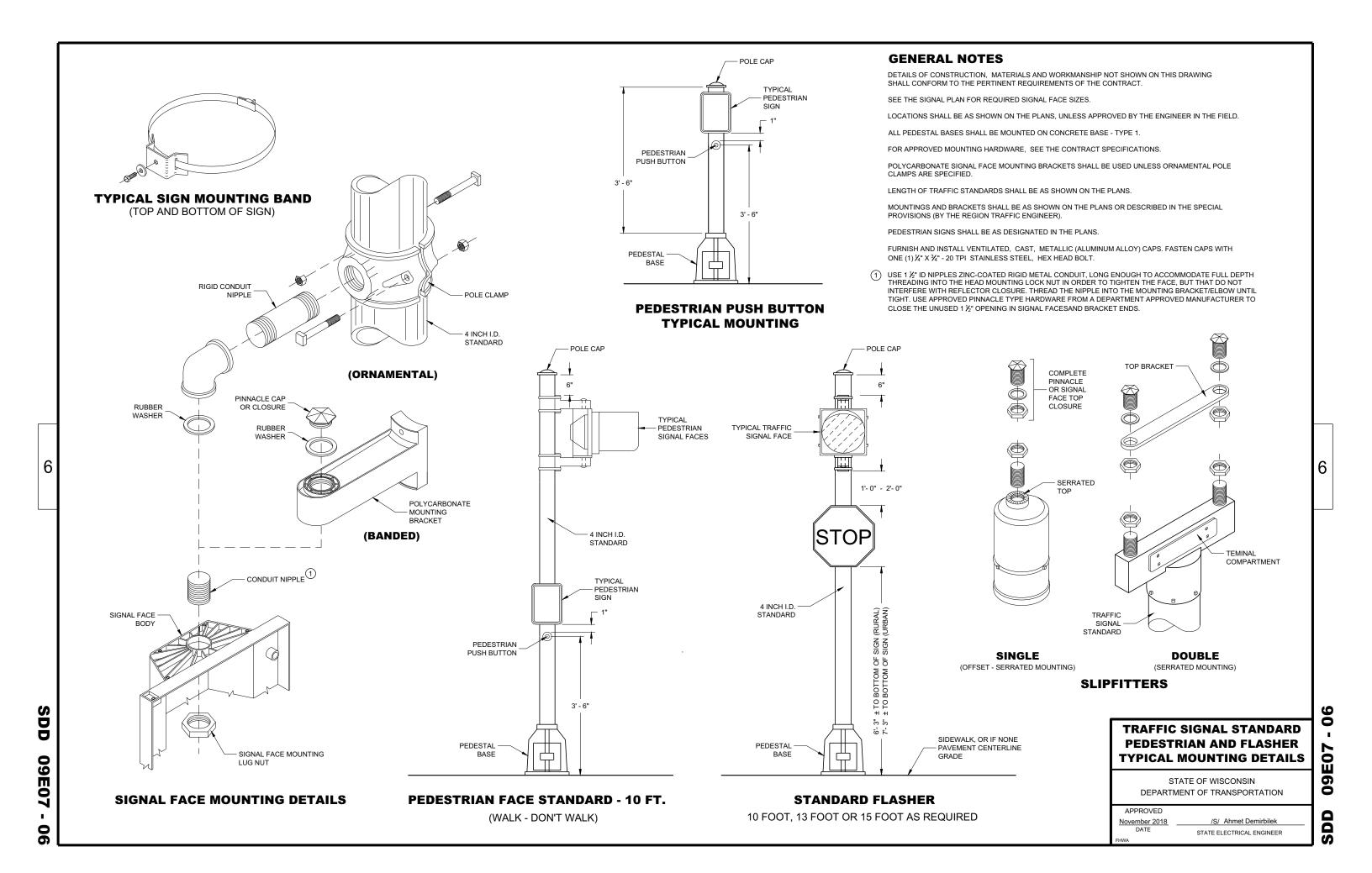
HARDWARE DETAILS FOR POLE MOUNTING

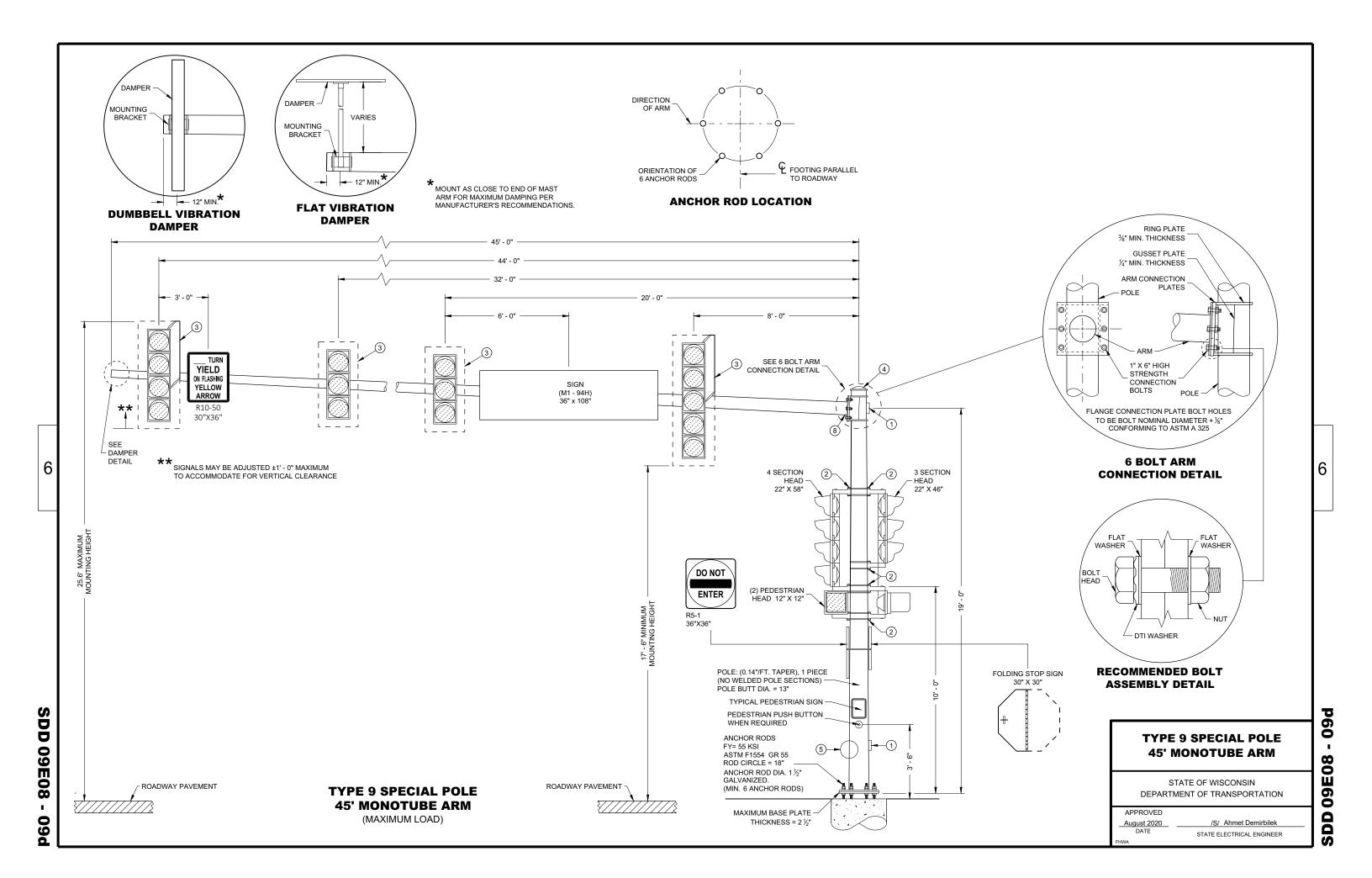
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

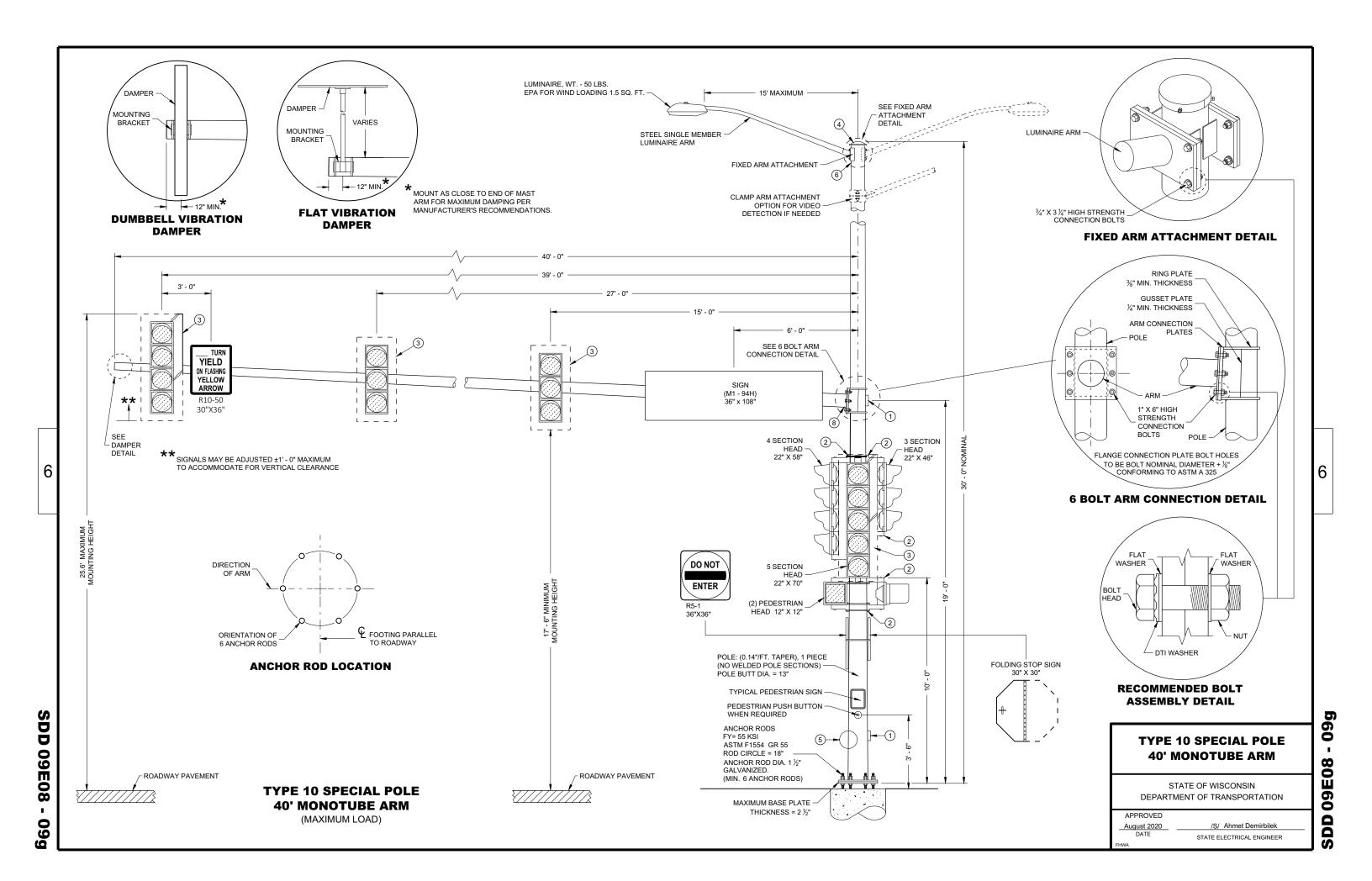
APPROVED November 2018 DATE

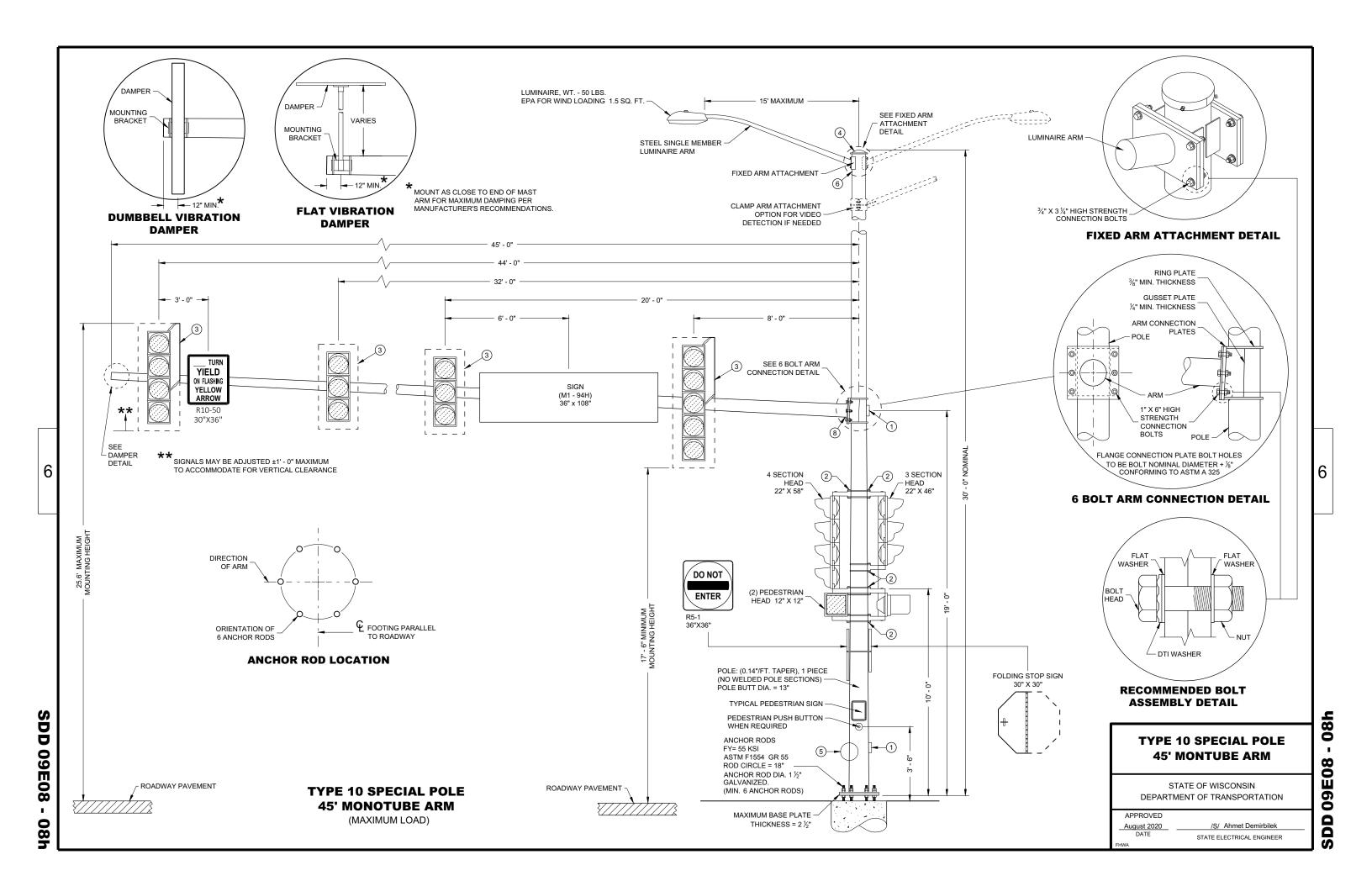
/S/ Ahmet Demirbilel STATE ELECTRICAL ENGINEER

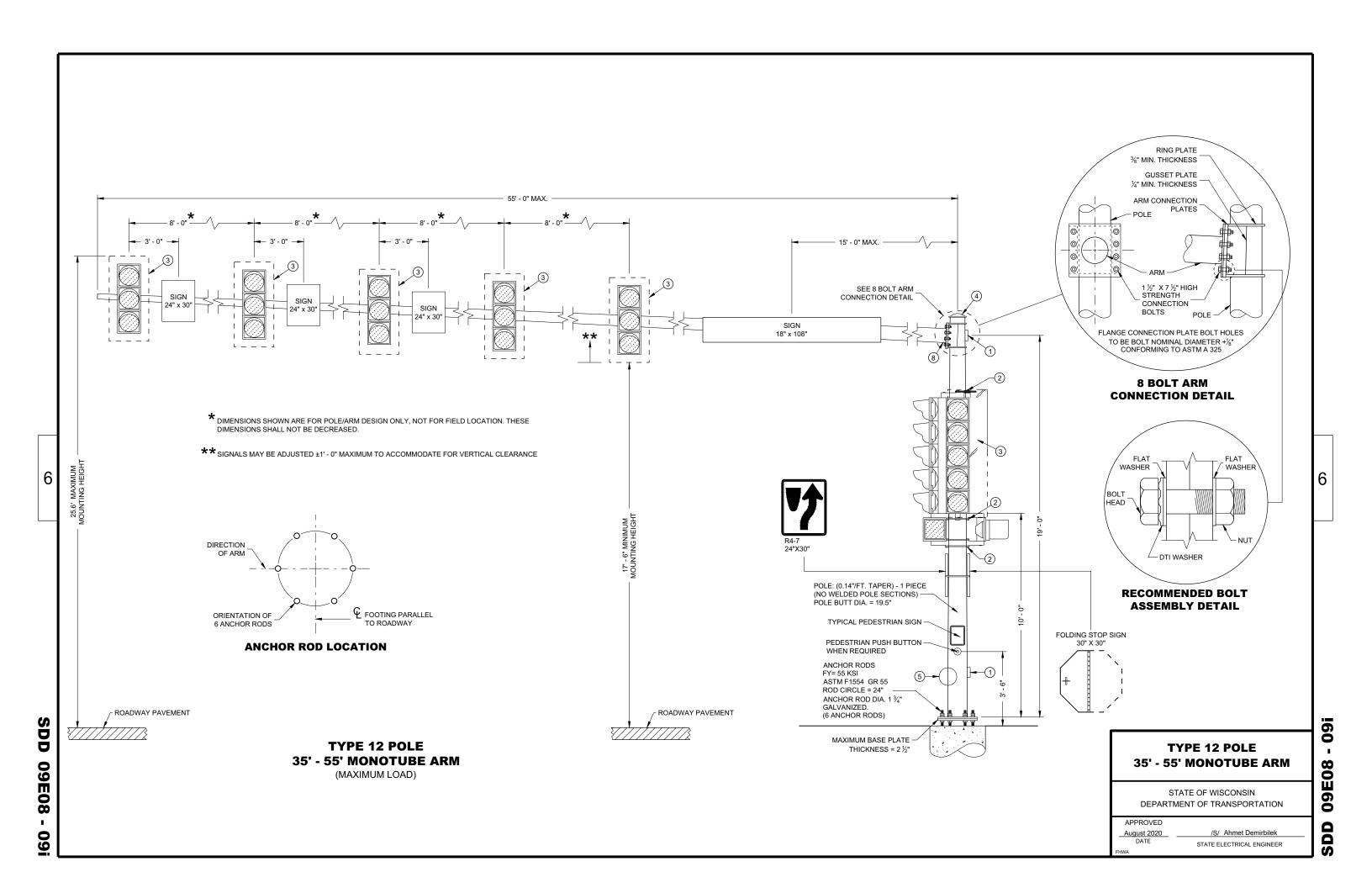


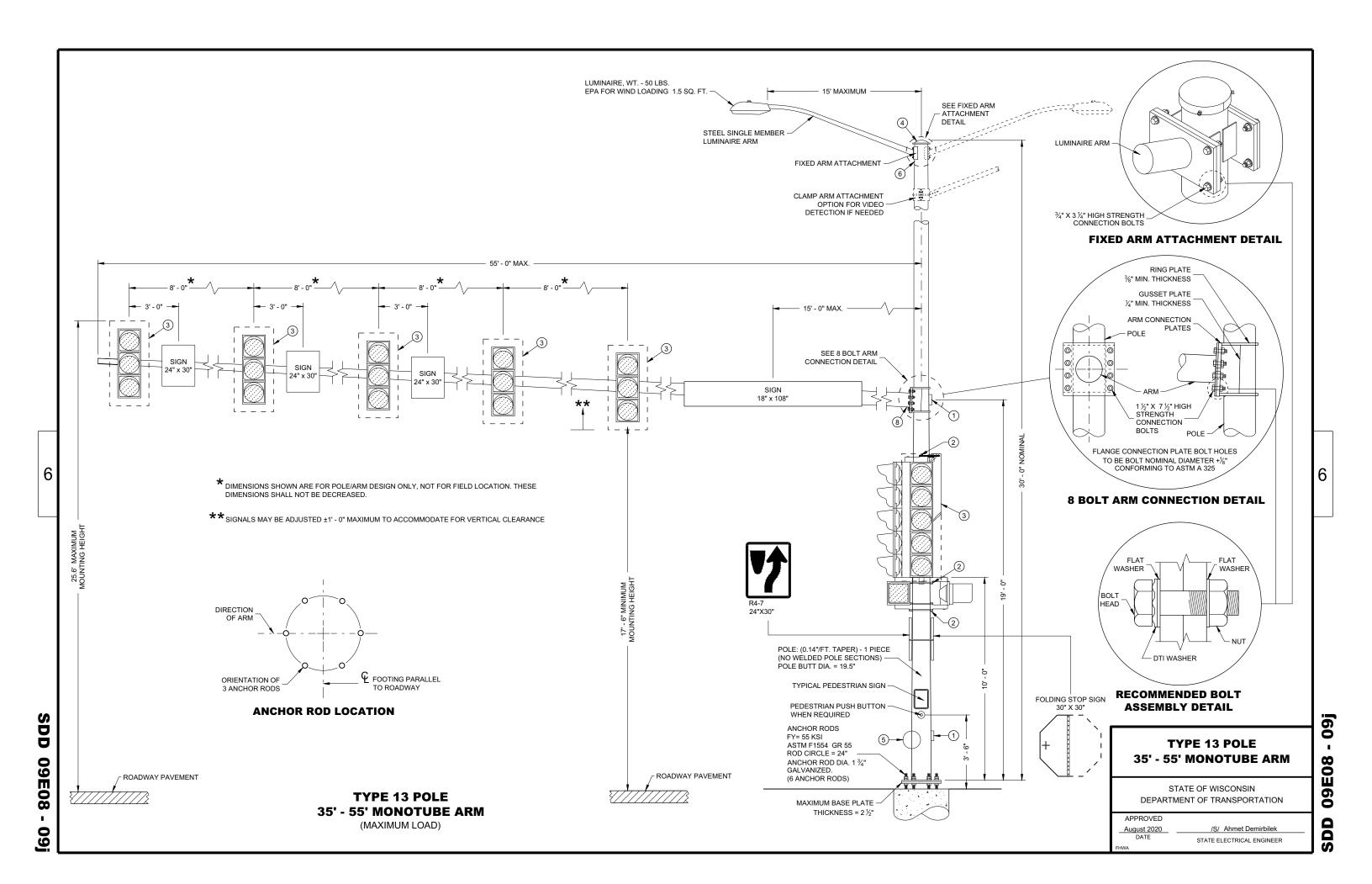












POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15 FOOT TO 30 FOOT.

POLE TYPES 9 SPECIAL AND 10 SPECIAL ARE FOR ARM LENGTHS 35 FOOT, 40 FOOT, AND 45 FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35 FOOT TO 55 FOOT.

MONOTUBE POLES AND ARMS SHALL BE GALVANIZED STEEL

RING STIFFENED BUILT UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3% ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATION SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING INTERIM REVISIONS)" AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR THE LIGHTING STRUCTURES

CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.

CATEGORY II FATIGUE LOADS OF TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 SPECIAL AND TYPE 10 SPECIAL STRUCTURES. IN LIEU OF DESIGNING FOR GALLOPING, A VIBRATION DAMPER MITIGATION DEVICE IS REQUIRED TO BE SUPPLIED AND INSTALLED AT THE END OF THE

CATEGORY II FATIGUE FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE12 AND TYPE 13 STRUCTURES.

115 MPH (700 YEAR MRI BASIC WIND SPEED).

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH 3/4" STAINLESS STEEL BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL χ " HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR A S DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL MOUNT ALL LIKE HEAD AT SAME ELEVATION.

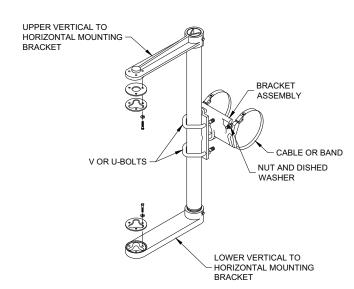
SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

- 1 DESIGN FOR MAXIMUM ALLOWABLE HAND HOLE WITH COVER ASSEMBLY WITH TWO ¾" X ¾" 20 TPI STAINLESS STEEL
- SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING (SEE SPECIFICATION SECTION 658).
- SECURELY MOUNT BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER
- THE TOP OF THE POLE SHAFT AND THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.
- FACTORY WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HAND HOLD, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR 1/2" X 1/2" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.
- FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE
- INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

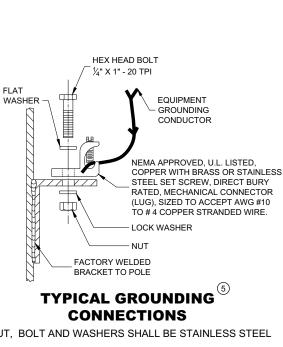
MOUNTING HEIGHT SHALL BE 6' - 0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED 1/2" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE

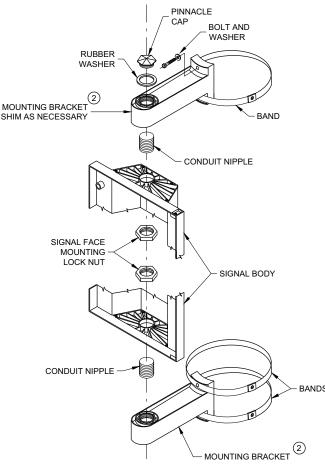


SIGNAL FACE MOUNTING BRACKET **DETAIL FOR MONOTUBE ARM**

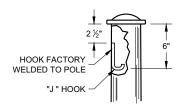
(MOUNT PER MANFACTURER'S RECOMMENDATION)



NUT. BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL **MOUNTING DETAIL**



TYPICAL "J" HOOK WIRE SUPPORT

GENERAL NOTES AND HARDWARE FOR TYPES 9,10, 9/10 SPECIAL, 12 AND 13 POLES WITH MONOTUBE ARMS

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

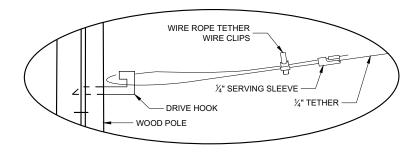
STRUCTURAL IDENTIFICATION **PLAQUE PLACEMENT**

TT YY

6' - 0"

DD 09E 08

60 APPROVED August 2020 DATE /S/ Ahmet Demirbilel STATE ELECTRICAL ENGINEER



DETAIL "A"

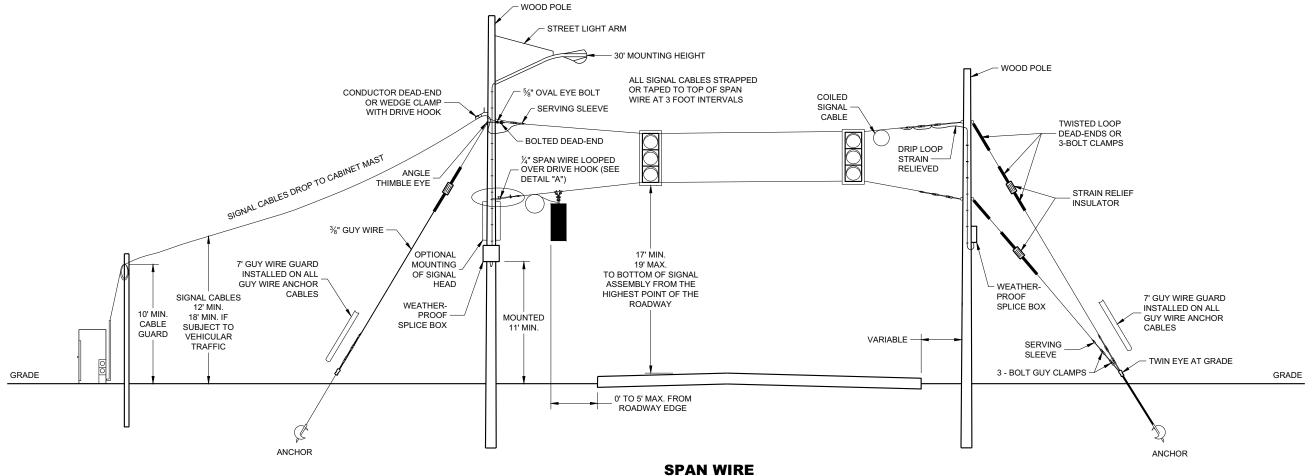
GENERAL NOTES

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

- 1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
- 2. SIGNAL FACES:
 - A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
 - B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
 - C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
 - D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

SPAN WIRE

- A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
- B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
- C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE TEMPORARY SIGNALS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

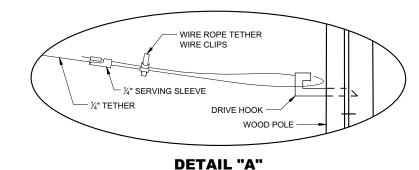
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGINEER

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SDD 09G01 - 04a



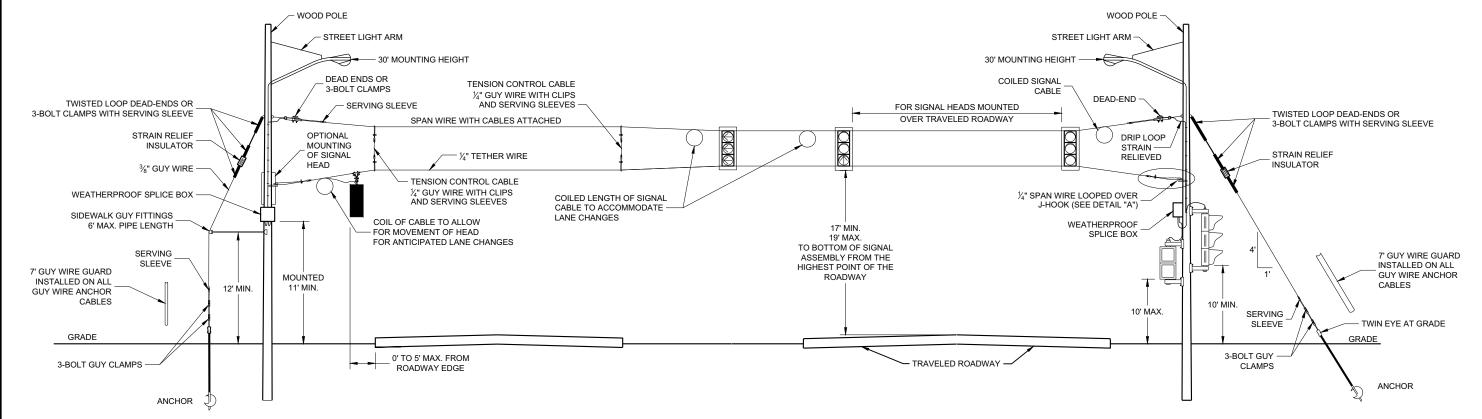
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 - D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
 - E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

3. SPAN WIRE:

- A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
- B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
- C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE TEMPORARY SIGNALS 4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

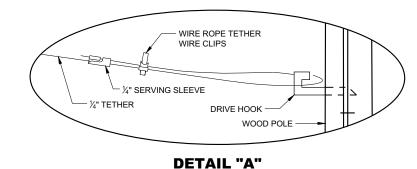
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED June 2015 DATE /S/ Ahmet Demerbilek STATE ELECTRICAL ENGINEER



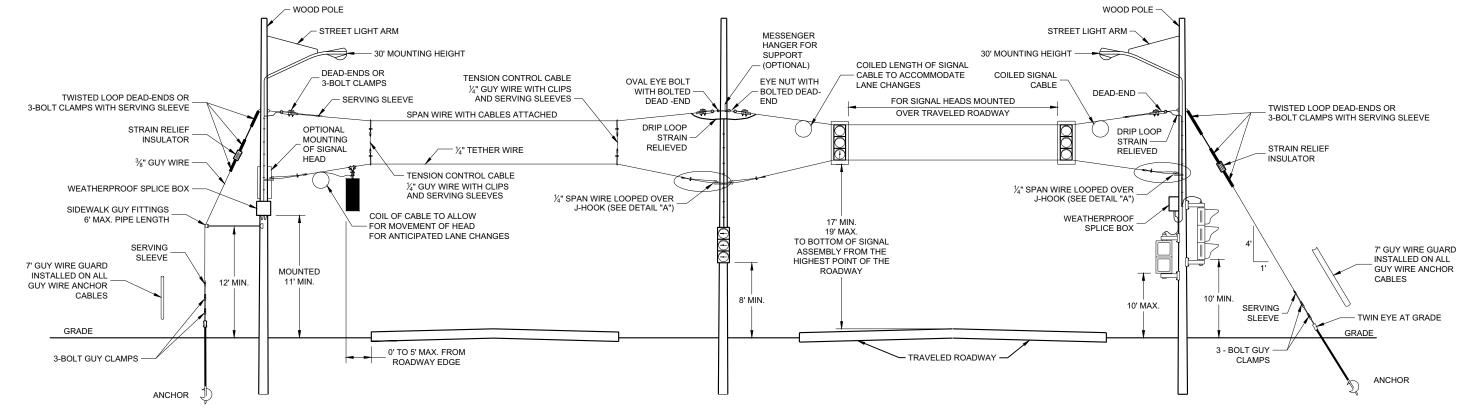
GENERAL NOTES

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SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

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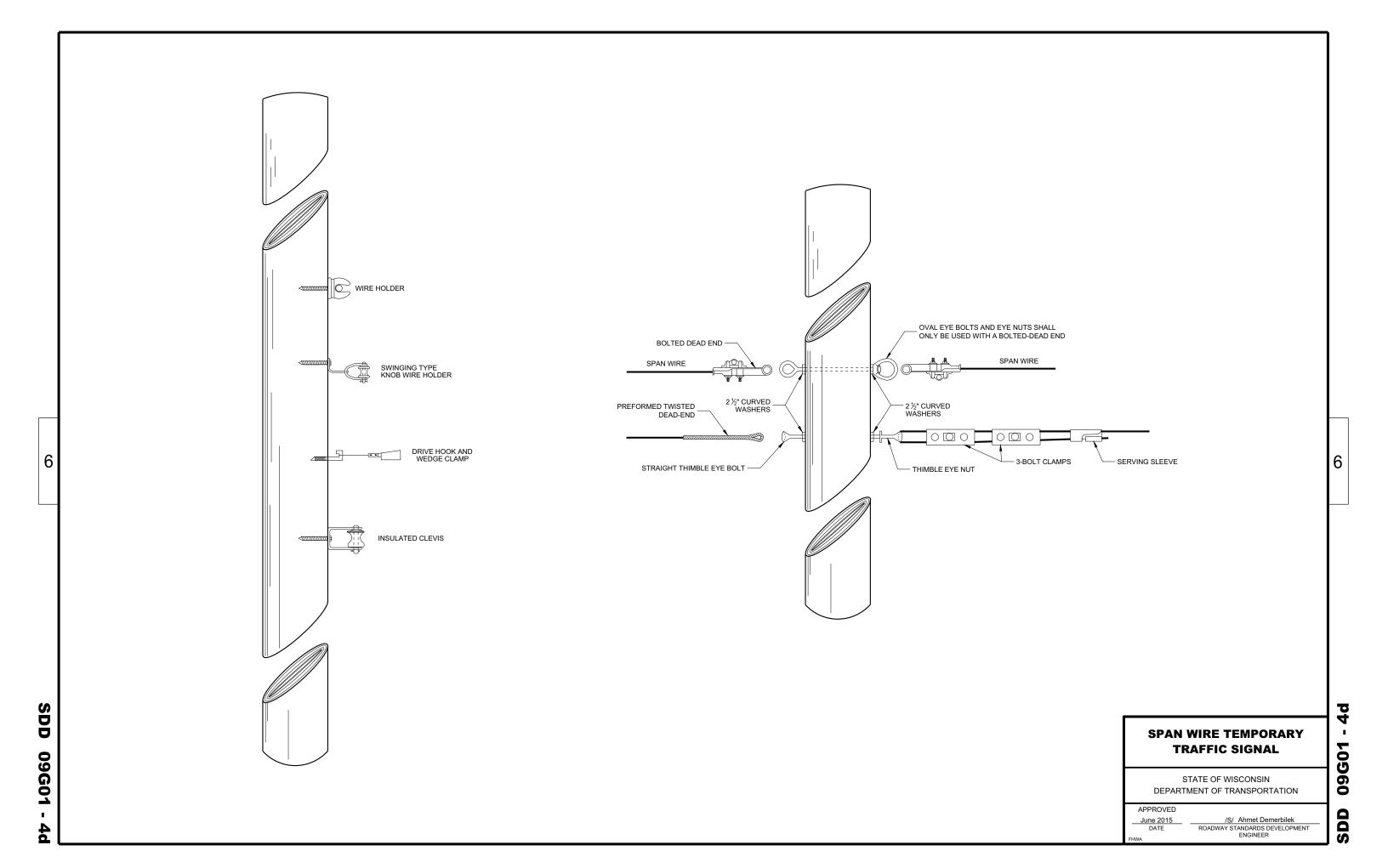
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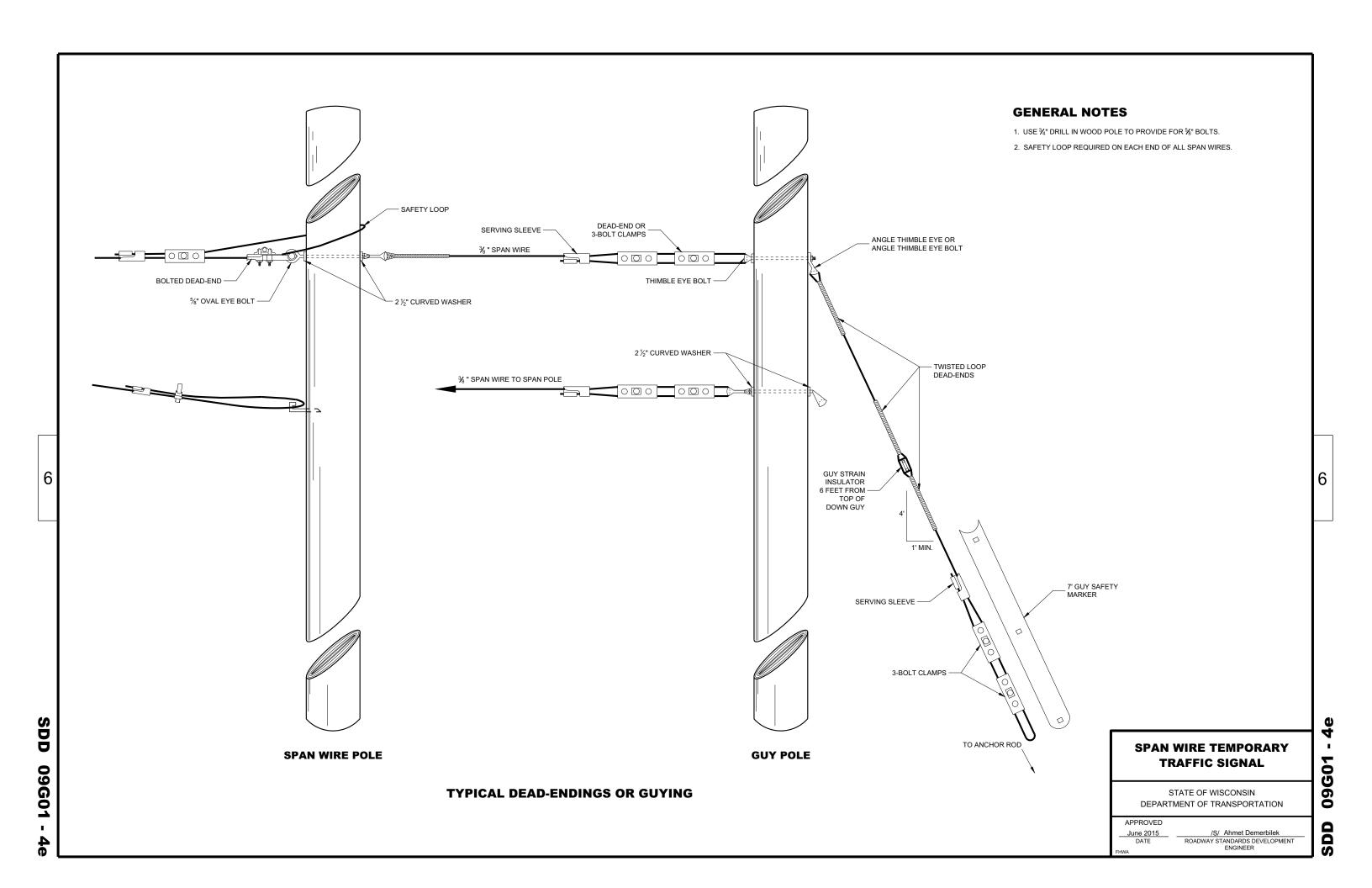
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

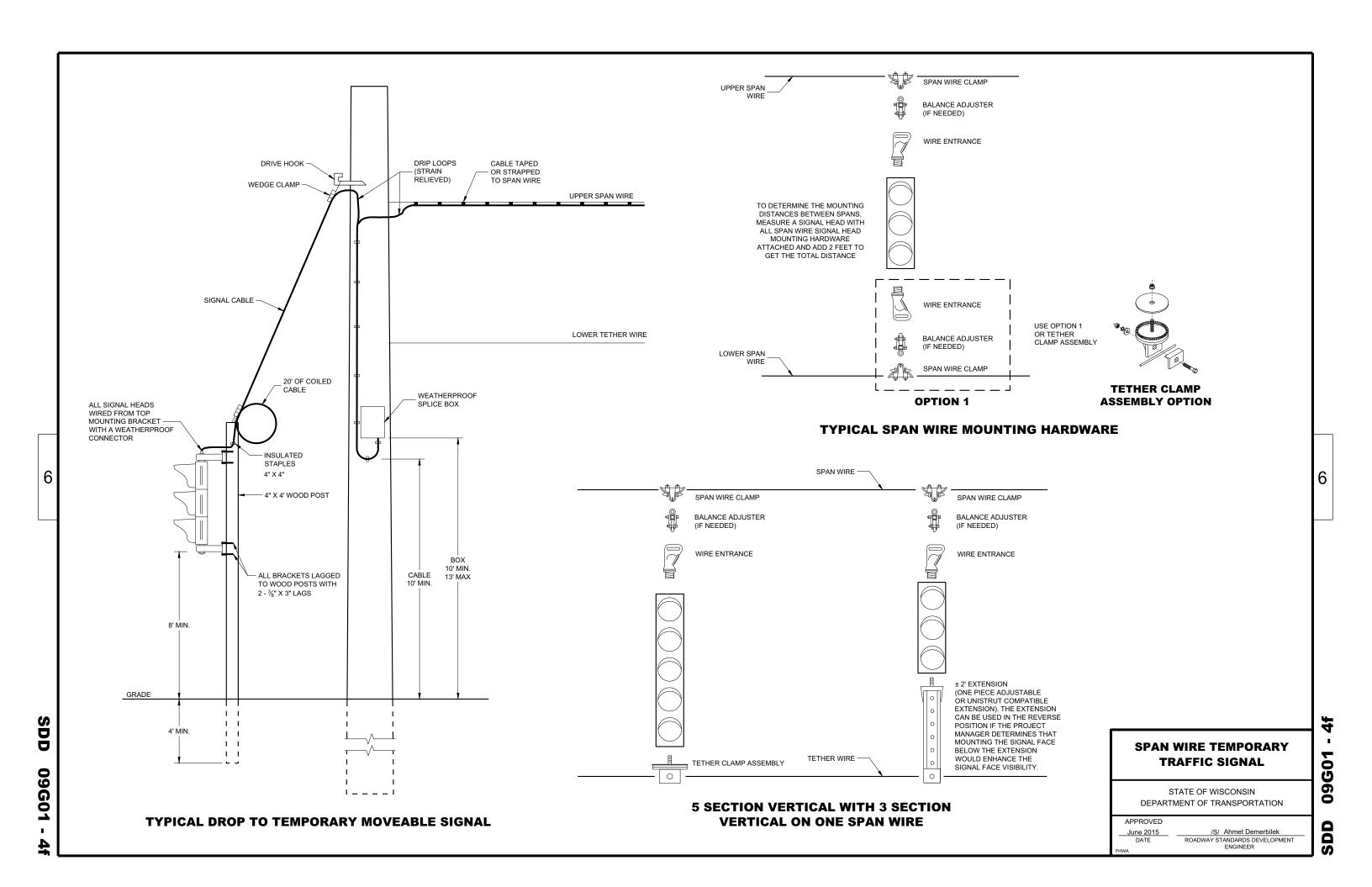
 APPROVED
 /s/ Ahmet Demerbilek

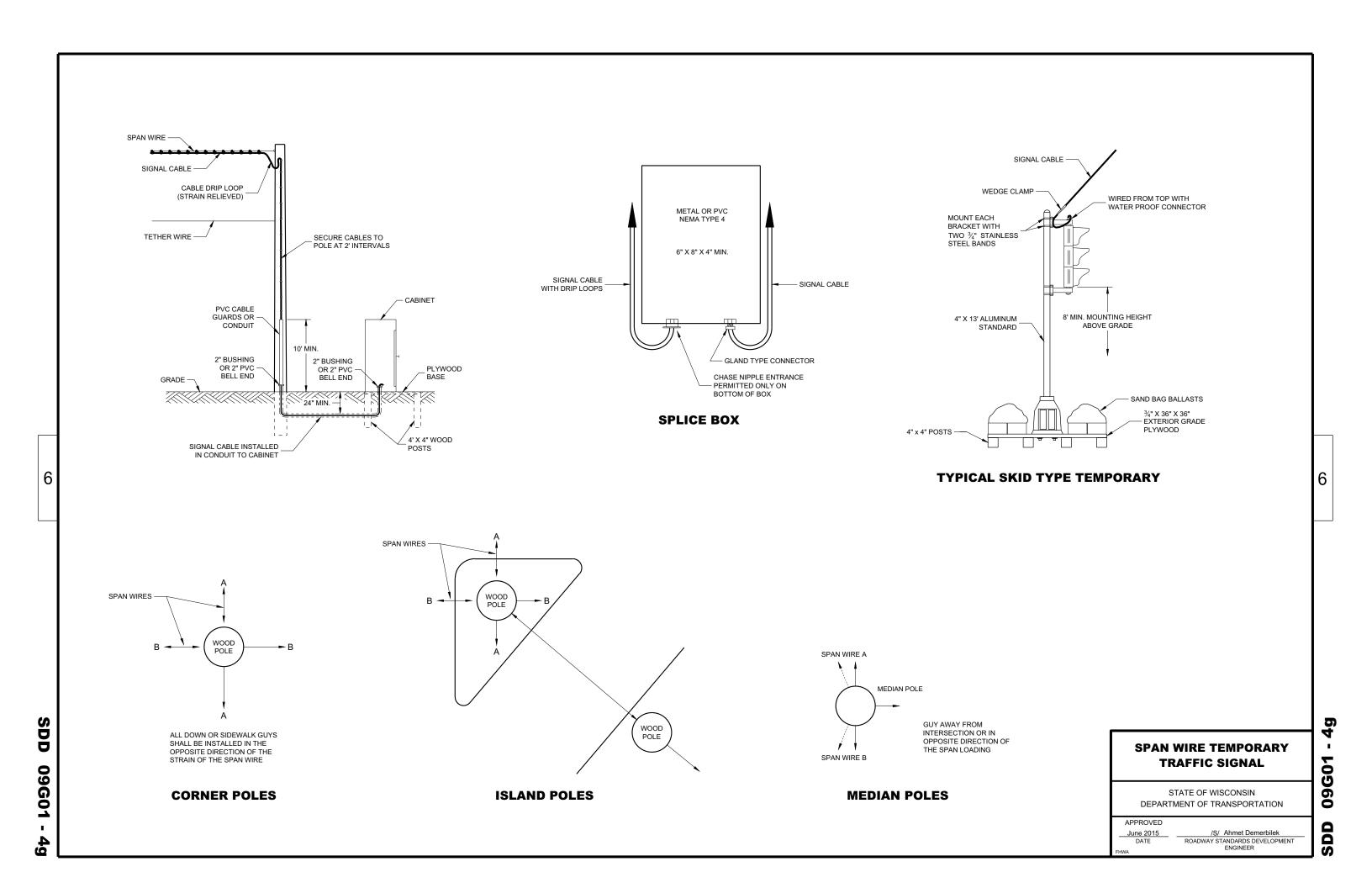
 June 2015
 /s/ Ahmet Demerbilek

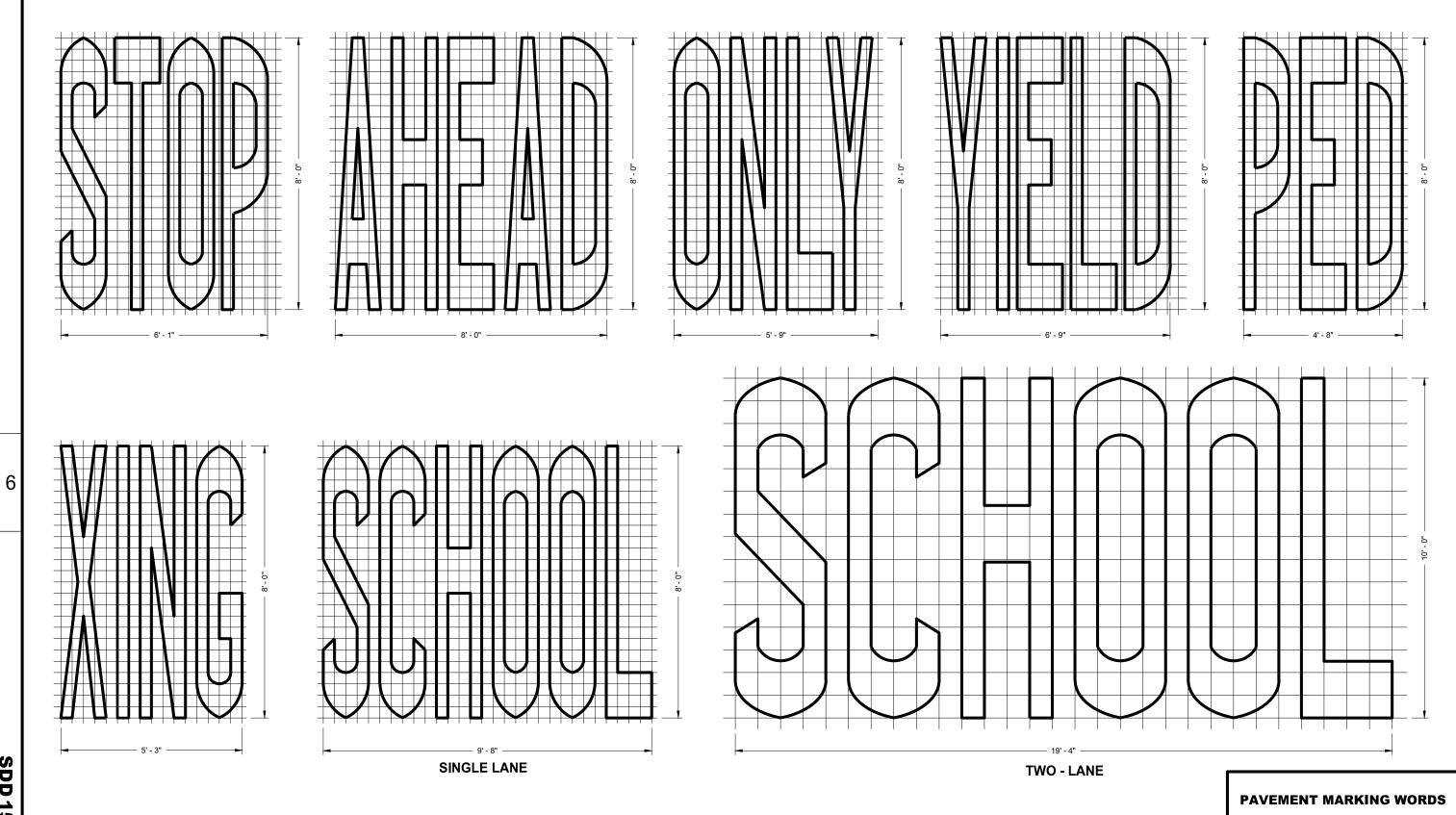
 DATE
 STATE ELECTRICAL ENGINEER











SDD 15C07 - 15b

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.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

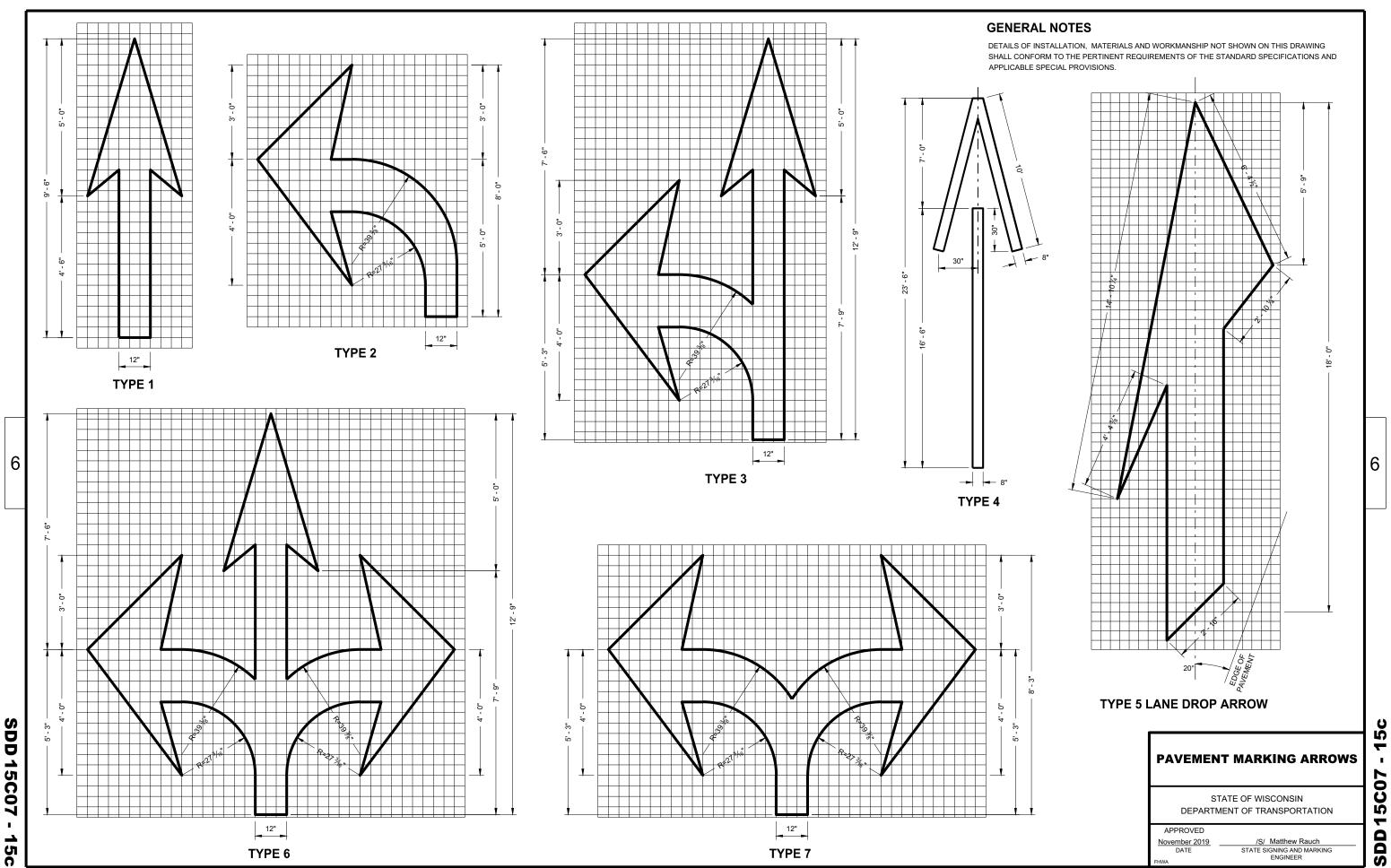
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SDD15C07

APPROVED

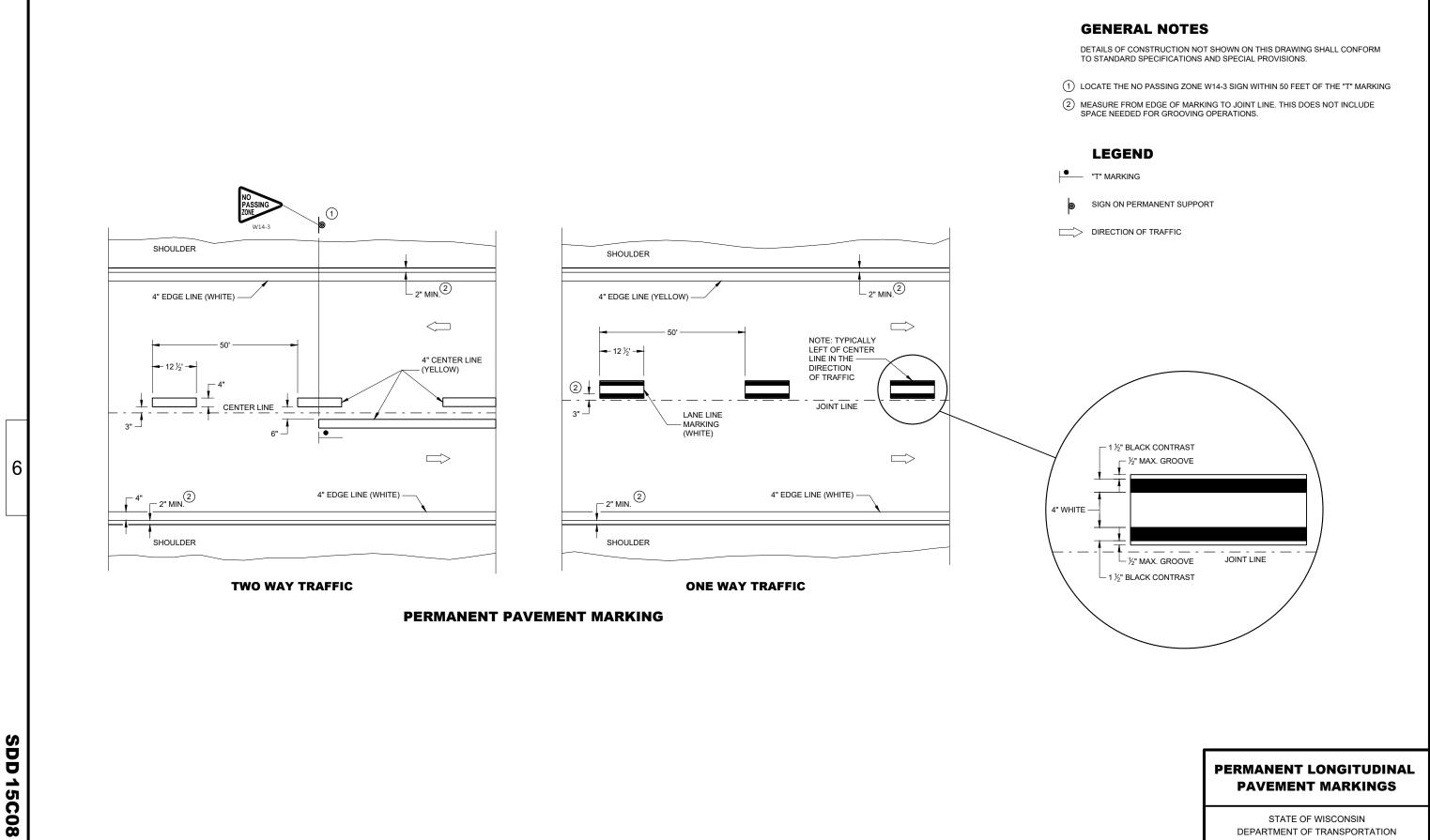
November 2019 /S/ Matthew Rauch
DATE STATE SIGNING AND MARKING
ENGINEER



TYPE 7

TYPE 6

SDD



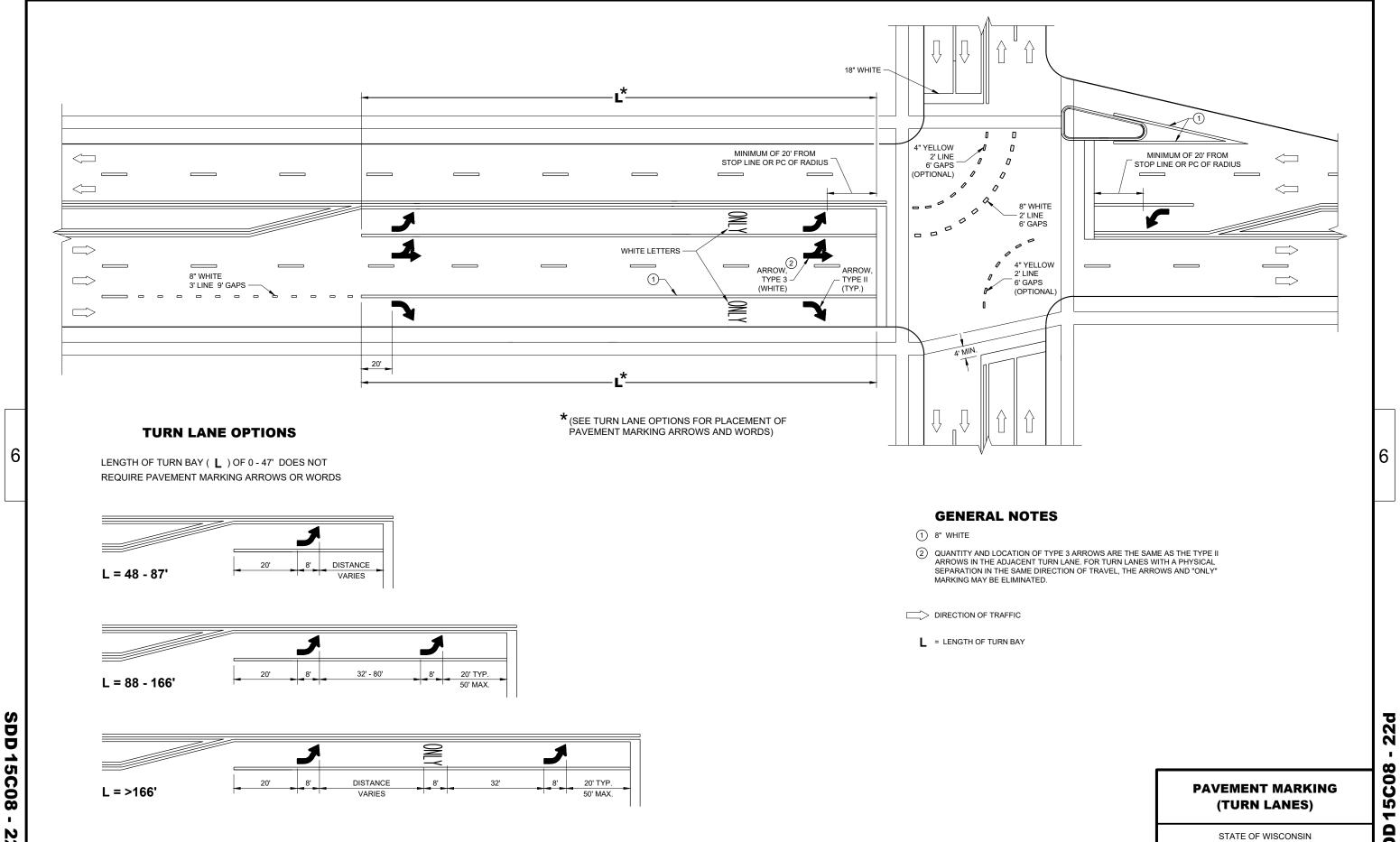
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Jeannie Silver
STATEWIDE SIGNING AND MARKING
ENGINEER

APPROVED

May 2022 DATE

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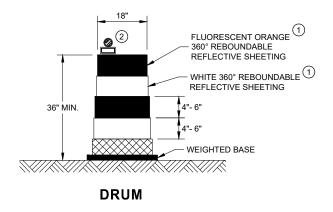


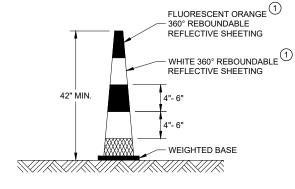
SDD 15C08

DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

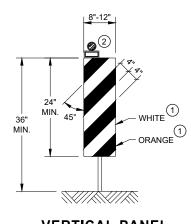
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



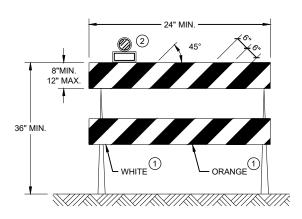


42" CONE DO NOT USE IN TAPERS

½ SPACING OF DRUMS

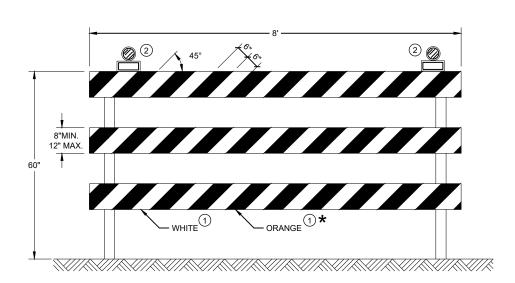


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

<u>60</u>

15C

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TYPE III BARRICADE
WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

FLASHING ARROW BOARD

DIRECTION OF TRAFFIC

X X X REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)

WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

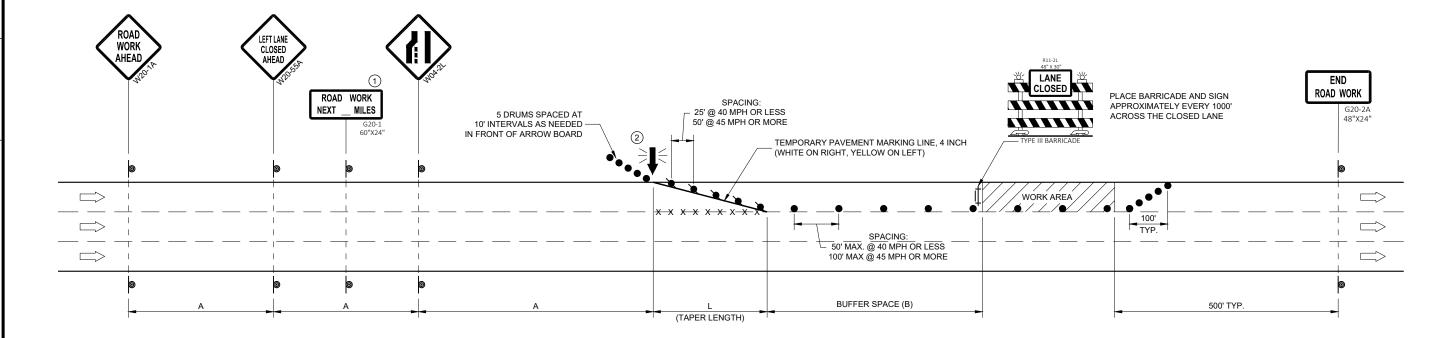
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

- (1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT ADVANCE TAPER LENGTH | BUFFER PRIOR TO WORK WARNING SIGN (12 FT. LANE) SPACE STARTING (MPH) SPACING (A) FEET (L) FEET (B) FEET 25 200' 125' 55' 30 200' 180' 85' 35 350' 245' 120' 40 320' 170' 350 45 500' 540' 220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

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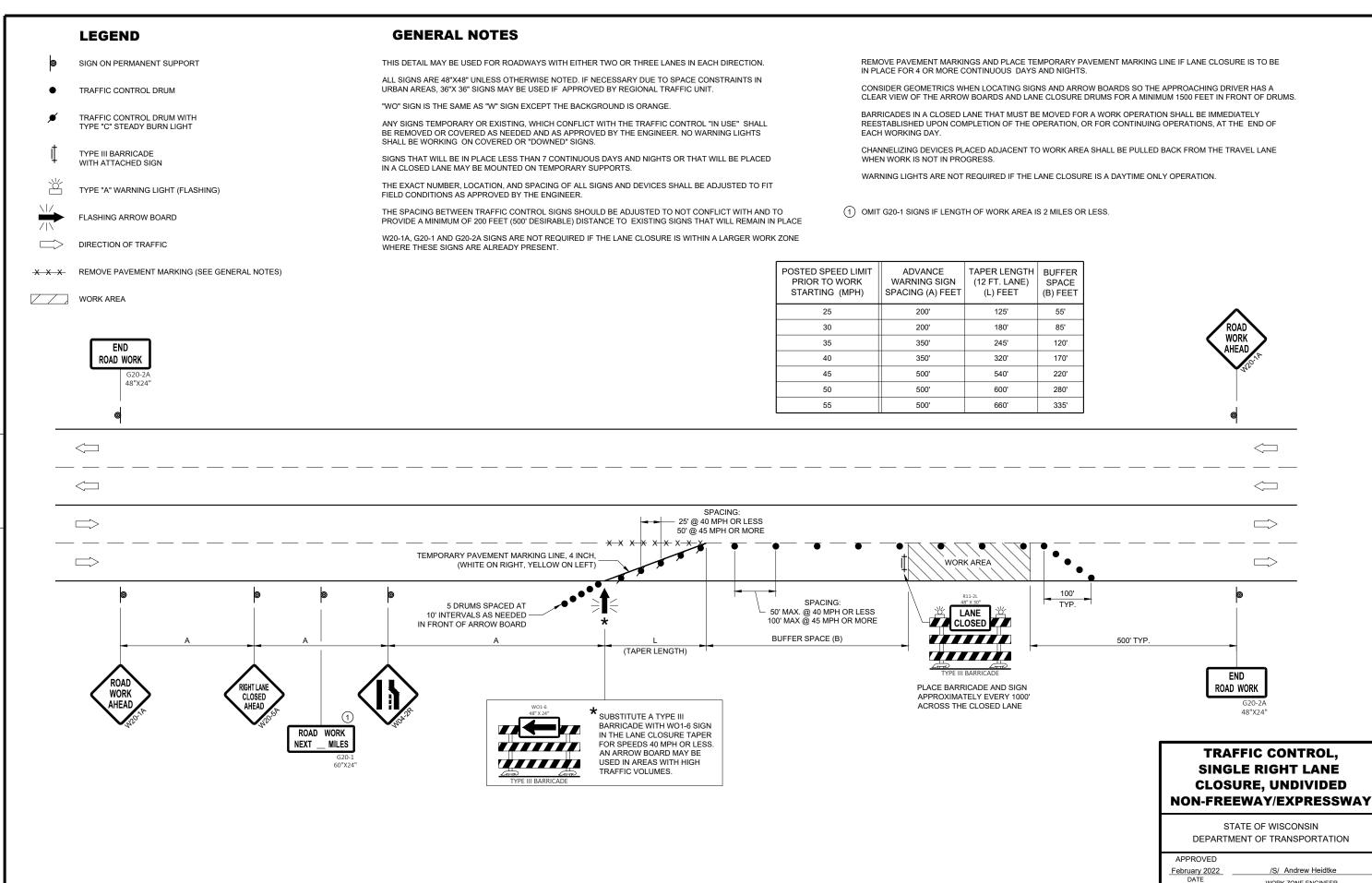
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

February 2022 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

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SDD 15D20 - (

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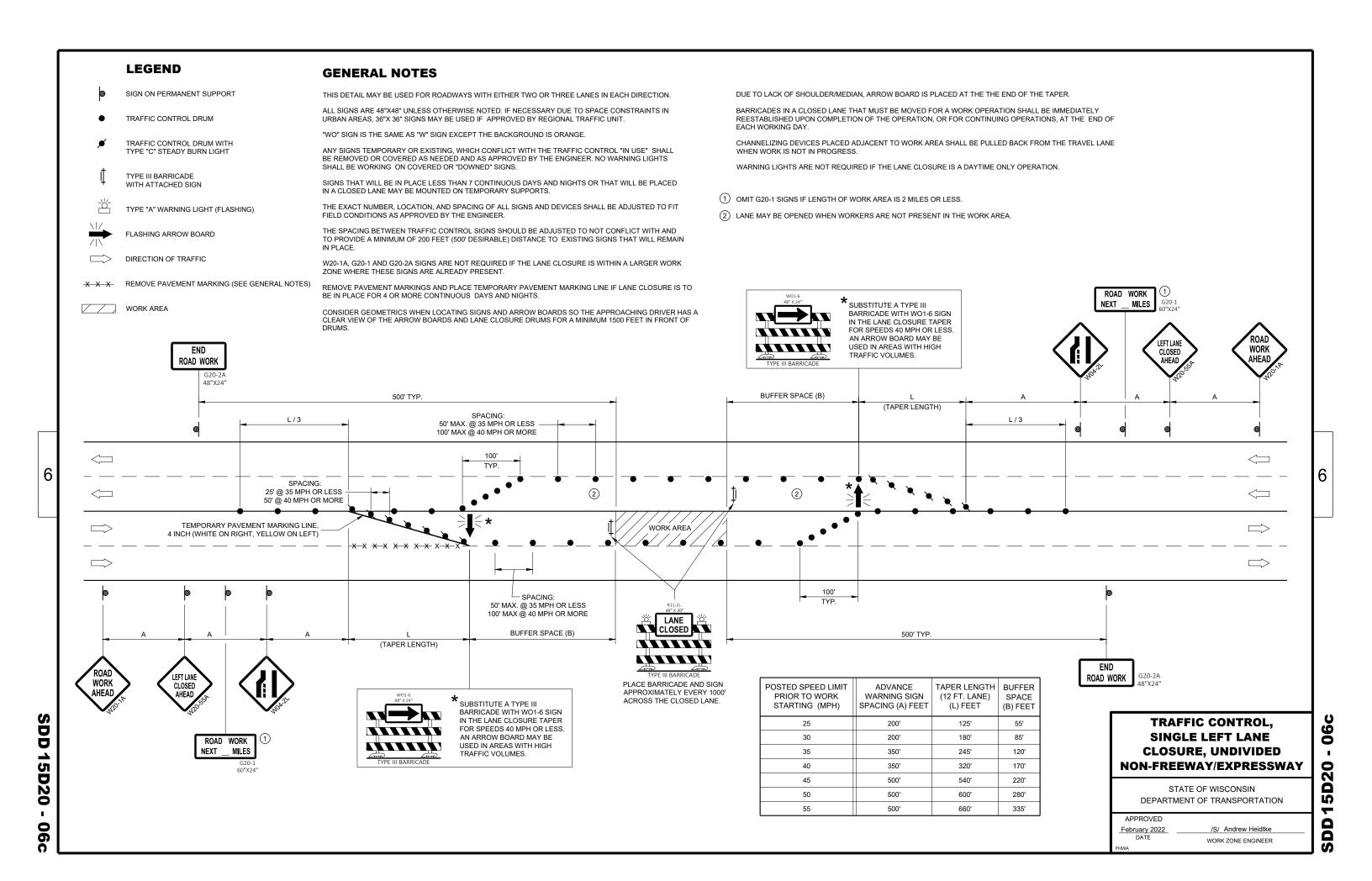


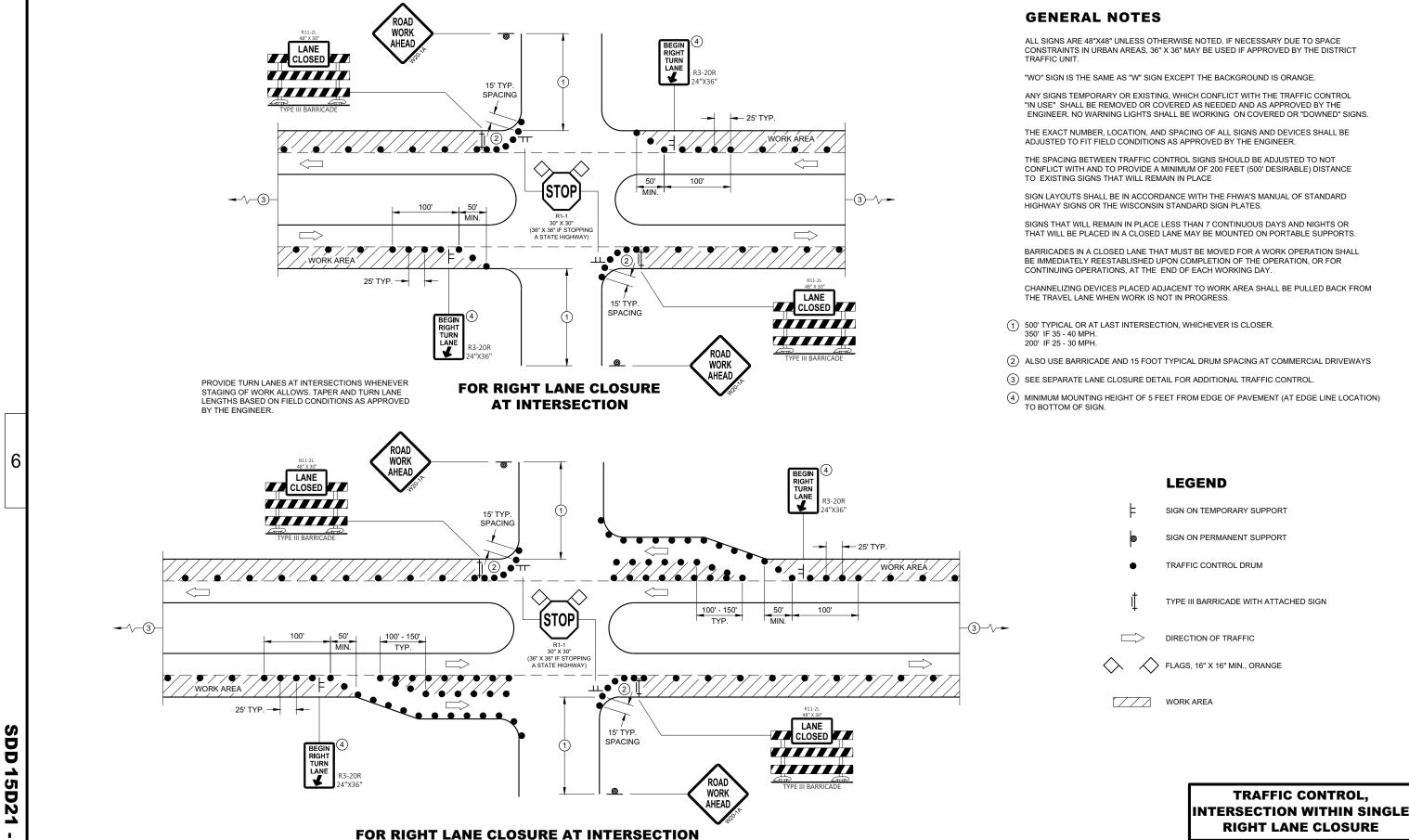
SDD 15D20

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<u>90</u> 20 **5D**

WORK ZONE ENGINEER





(WITH RIGHT TURN BAY OPEN)

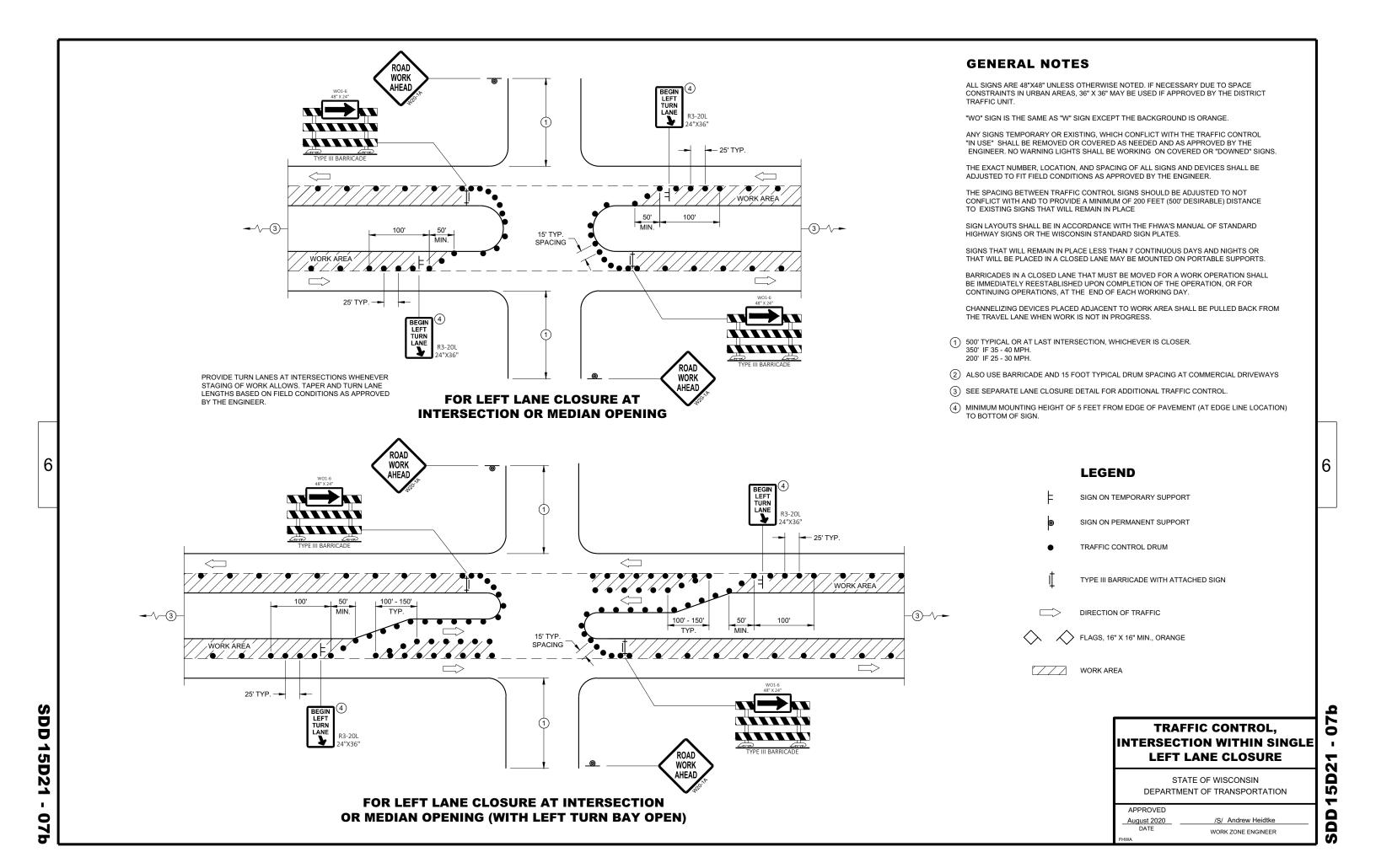
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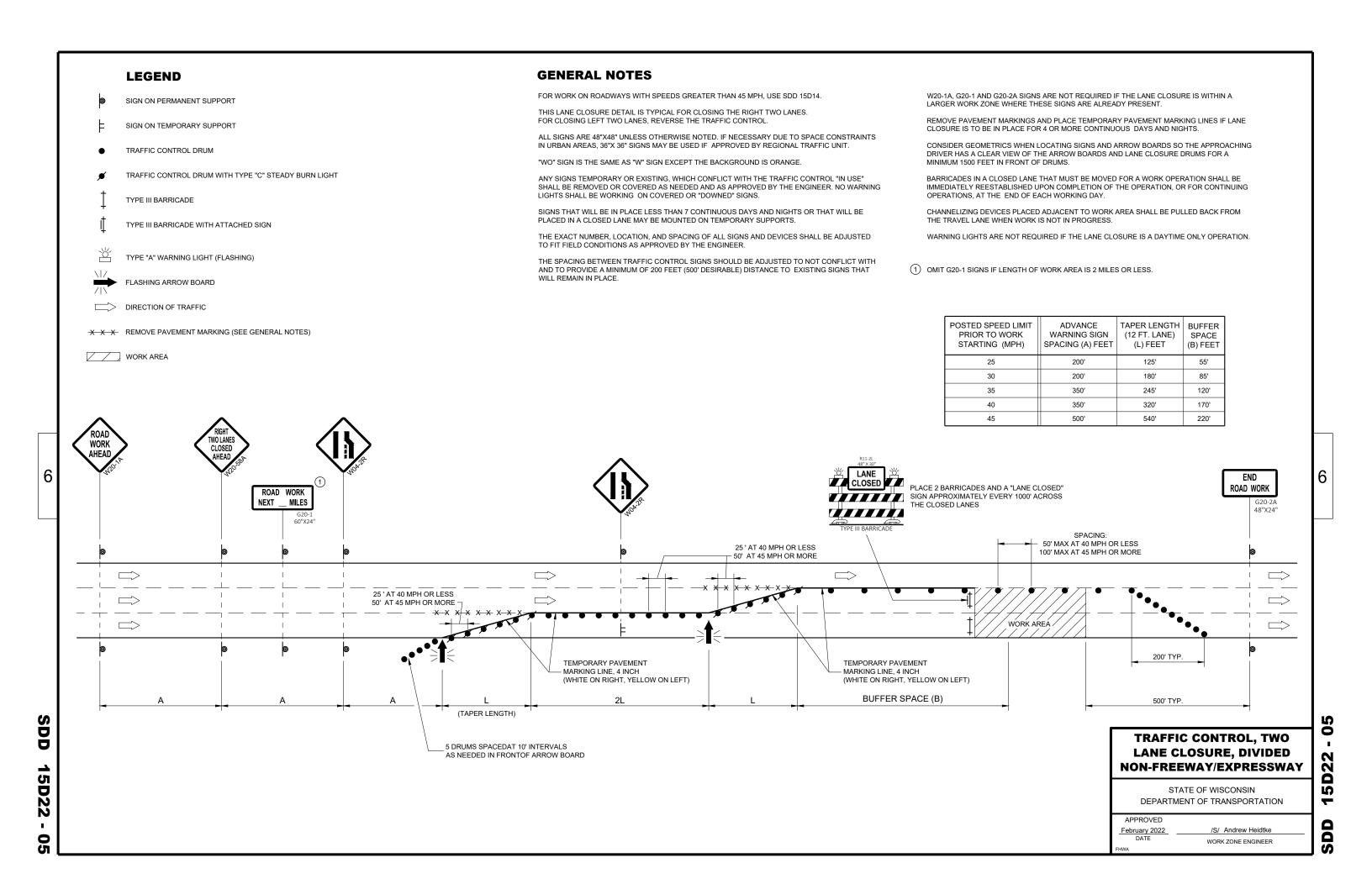
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION





FOR RIGHT TWO LANES CLOSED AT

INTERSECTION (WITH RIGHT TURN BAY OPEN)

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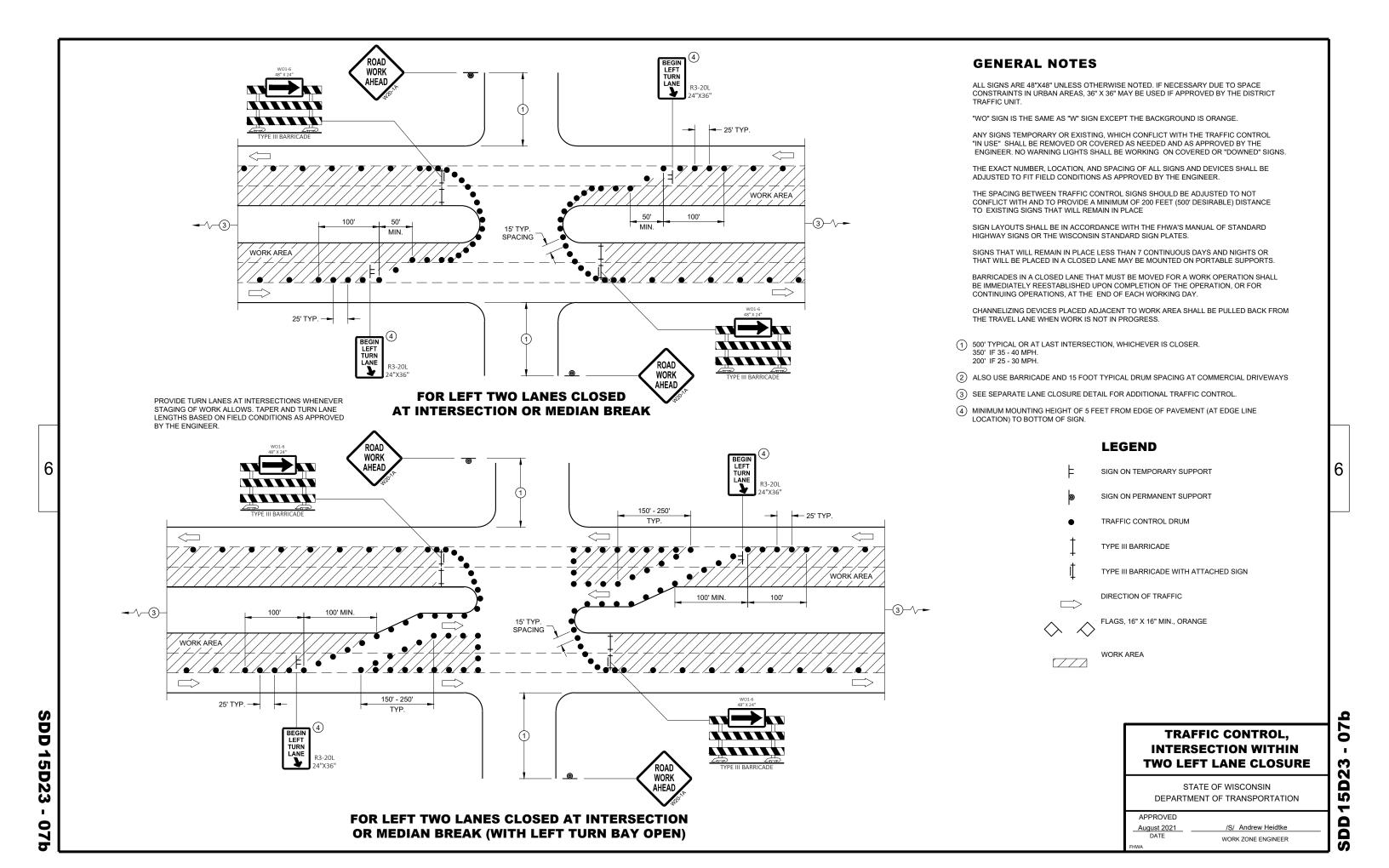
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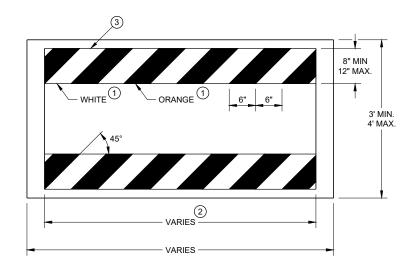
TWO RIGHT LANE CLOSURE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

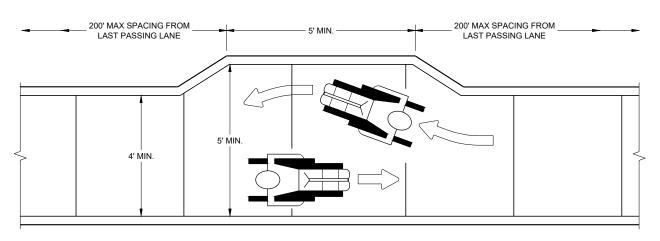


BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

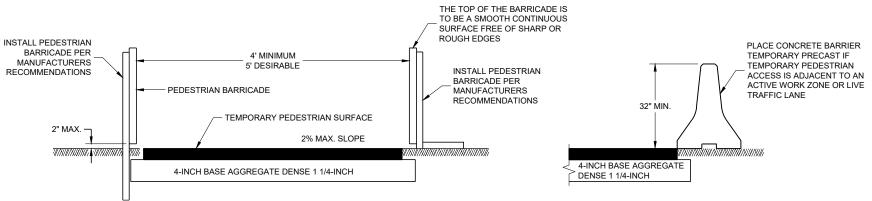
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
- 3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.
- * USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



TEMPORARY PEDESTRIAN BARRICADE*



NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN ACCESS

TRAFFIC CONTROL, **PEDESTRIAN ACCOMMODATION**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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SDD 15D30 07a

07 15D30 SDD

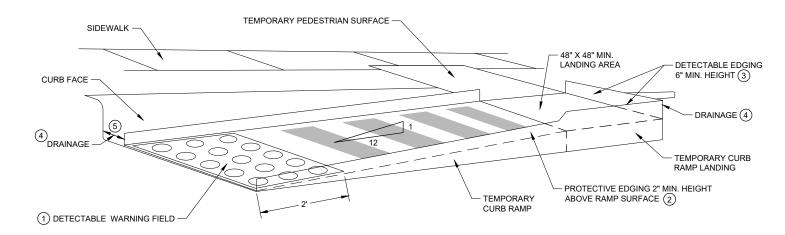
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CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

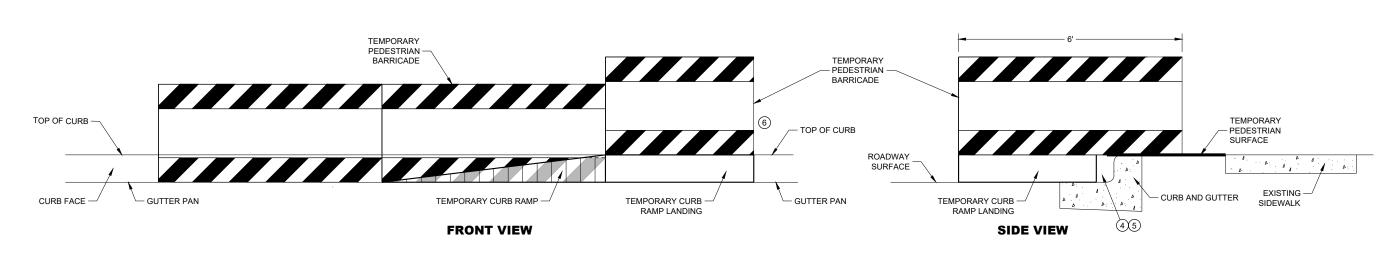
CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN $\frac{1}{2}$ " WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED $\frac{1}{2}$ ". LATERAL EDGES MAY BE VERTICAL UP TO $\frac{1}{4}$ " HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN $\frac{1}{4}$ " AND $\frac{1}{2}$ ".

- (1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE DI ANS
- 2 PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- (3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- (4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- 5 6" MINIMUM BETWEEN CURB FACE AND EDGE OF RAMP
- (6) IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



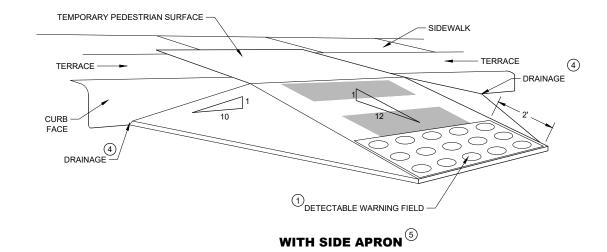
PERSPECTIVE VIEW

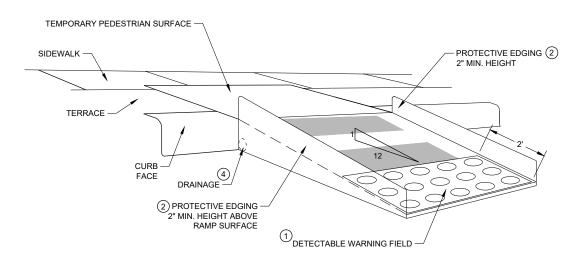


TEMPORARY CURB RAMP PARALLEL TO CURB

TRAFFIC CONTROL,
PEDESTRIAN
ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION





SDD 15D30

WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

- CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
- ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.
- CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
- CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN $\slash\!\!/_2$ " WIDTH.
- CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED $\frac{1}{2}$ ". LATERAL EDGES MAY BE VERTICAL UP TO $\frac{1}{4}$ " HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN $\frac{1}{4}$ " AND $\frac{1}{2}$ ".
- (1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS
- (2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- (3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- 4 DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- (5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

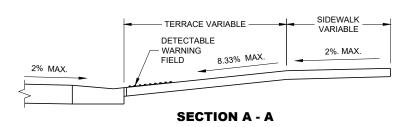
TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

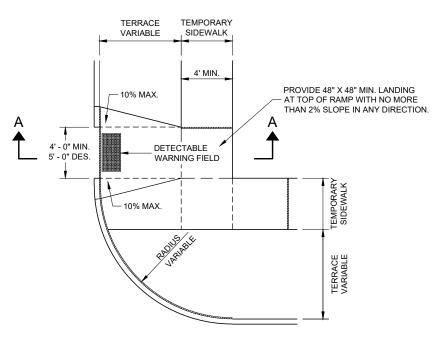
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
- (3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.
- * USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.





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SDD 15D30

07d

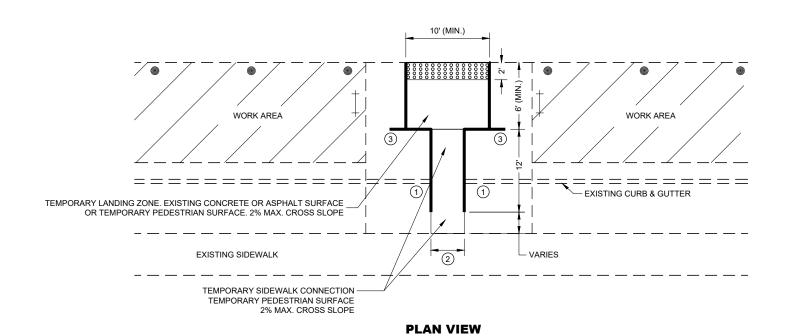
PLAN VIEW
TEMPORARY TYPE 3 RAMP

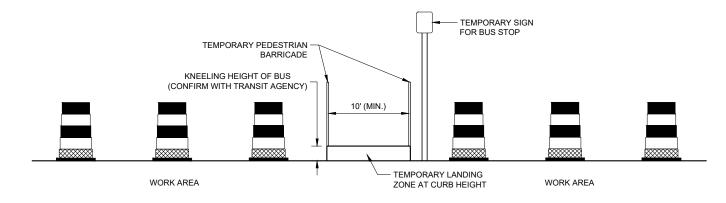
(OUTSIDE OF CROSSWALK AREA)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	





PROFILE VIEW TEMPORARY BUS STOP PAD

SDD 15D30

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GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%), PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED $\frac{1}{2}$ ". LATERAL EDGES MAY BE VERTICAL UP TO $\frac{1}{4}$ " HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN $\frac{1}{4}$ " AND $\frac{1}{2}$ ".

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

- 1) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- (2) 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE, 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.
- (3) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.

LEGEND

TRAFFIC CONTROL DRUM

TYPE III BARRICADE

TEMPORARY PEDESTRIAN BARRICADE

0000000 T

TEMPORARY DETECTABLE

WORK AREA

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

1 IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM

(2) PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.

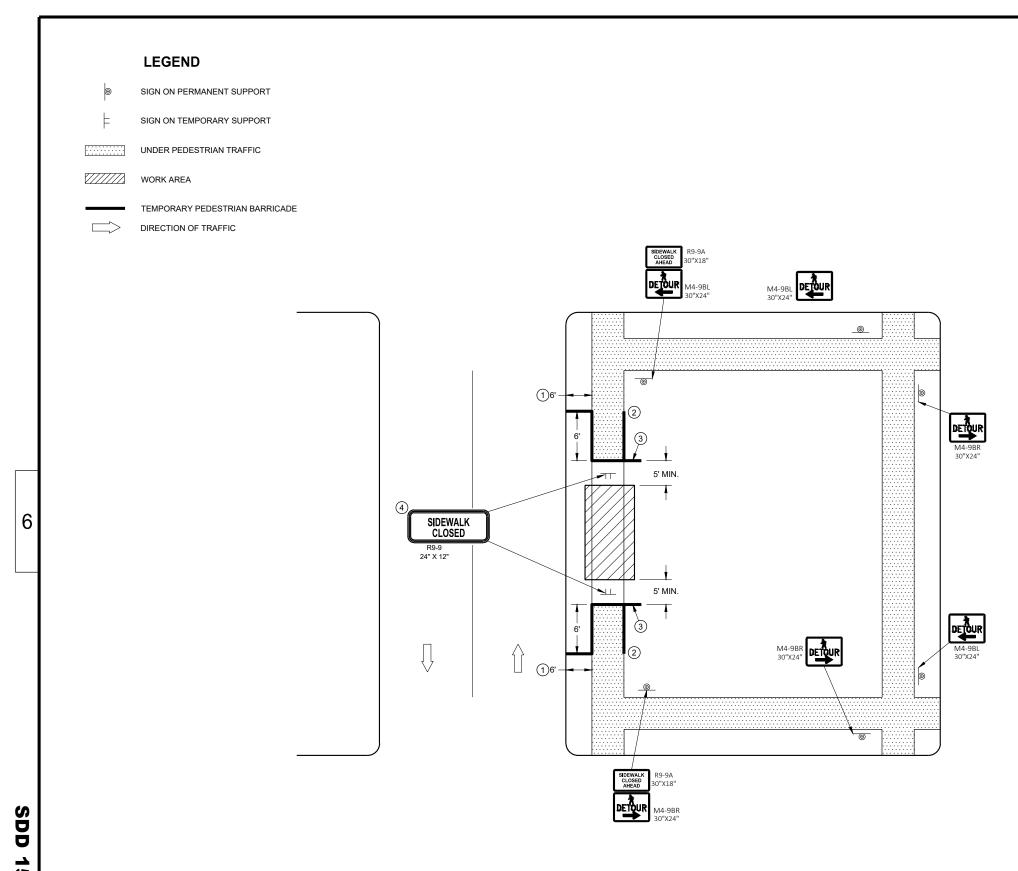
(4) MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

PEDESTRIAN ACCOMMODATION

SD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL,



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

SDD 15D30

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

- ① USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
- (2) IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
- 3 MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

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SDD 15D30 - 07g

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SIGN ON TEMPORARY SUPPORT TRAFFIC CONTROL DRUM

WORK AREA

UNDER PEDESTRIAN TRAFFIC TEMPORARY CURB RAMP

TEMPORARY PEDESTRIAN SURFACE "A" TEMPORARY PEDESTRIAN SURFACE "B"

TEMPORARY PEDESTRIAN BARRICADE

DIRECTION OF TRAFFIC

4' MIN. 5' DESIRABLE 5' DESIRABLE 1' BUFFER -4 5' DESIRABLE VARIES 1

SIDEWALK DIVERSION, SINGLE SIDE

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

 $\textcircled{1} \ \ \text{SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED}.$

2 PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.

3 MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

(4) USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE.

07h 2D PEDESTRIAN ACCOMMODATION SDD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL,

SDD 15D30

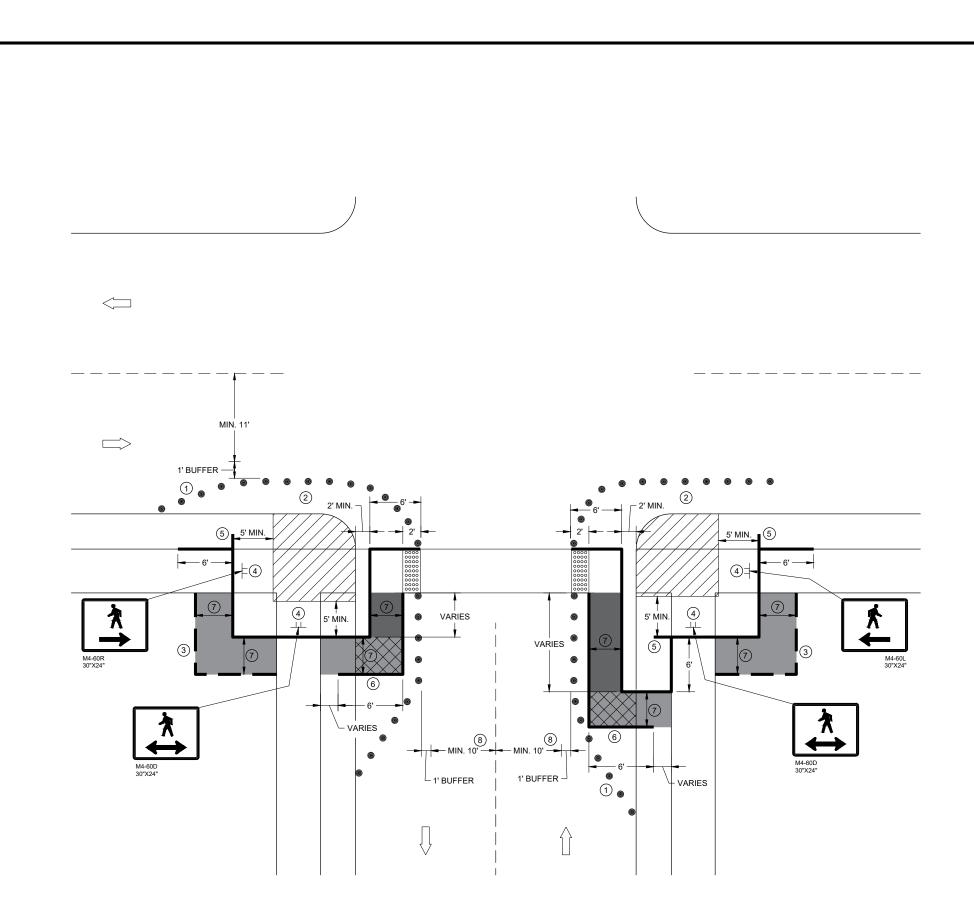
IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

GENERAL NOTES

TEMPORARY PEDESTRIAN ACCOMMODATIONS.



CURB RAMP PEDESTRIAN TRAFFIC CONTROL SIDEWALK ON SINGLE SIDE

SDD

15D30

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TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

WORK AREA TEMPORARY CURB RAMP

TEMPORARY PEDESTRIAN SURFACE "A"

TEMPORARY PEDESTRIAN SURFACE "B" TEMPORARY DETECTABLE WARNING FIELD

DIRECTION OF TRAFFIC

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

- (1) SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
- 2 PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
- ③ USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
- 4 MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
- (5) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
- (6) WHITE 6" TEMPORARY PAVEMENT MARKING
- $\begin{picture}(60,0)\put(0,0){\line(1,0){10}}\put(0,0){\line(1,0){10}$
- 8 4 FEET MINIMUM, 5 FEET DESIRABLE
- $\begin{tabular}{ll} \end{tabular} \begin{tabular}{ll} \end{tabular} \beg$

LEGEND

SIGN ON TEMPORARY SUPPORT TRAFFIC CONTROL DRUM

TEMPORARY PEDESTRIAN BARRICADE

OPTIONAL TEMPORARY PEDESTRIAN BARRICADE

CURB RAMP PEDESTRIAN TRAFFIC CONTROL

TEMPORARY PAVEMENT MARKING

1' BUFFER -

REMOVABLE MASK OUT TAPE

1' BUFFER

2' MIN.

5' MIN

2' MIN.

2

1

5' MIN

MIN

90° OPTION

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

<u>1</u>

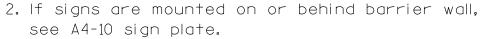
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

MIN. 11

1' BUFFER -

VARIES -

45° OPTION



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (\pm).

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

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

** Curb Flowline

D
White Edgeline Location

*

6'-3"(±)

D |

Outside Edge

of Gravel

White Edgeline
Location

Outside Edge
of Gravel

d.

POST EMBEDMENT DEPTH

Area of Sign
Installation
(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

Matther & Rawk For State Traffic Engineer

DATE 5/13/2020 PLATE NO. _A4-3.22

SHEET NO:

Ε

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

PROJECT NO:

PLOT DATE: 13-MAY 2020 1:04

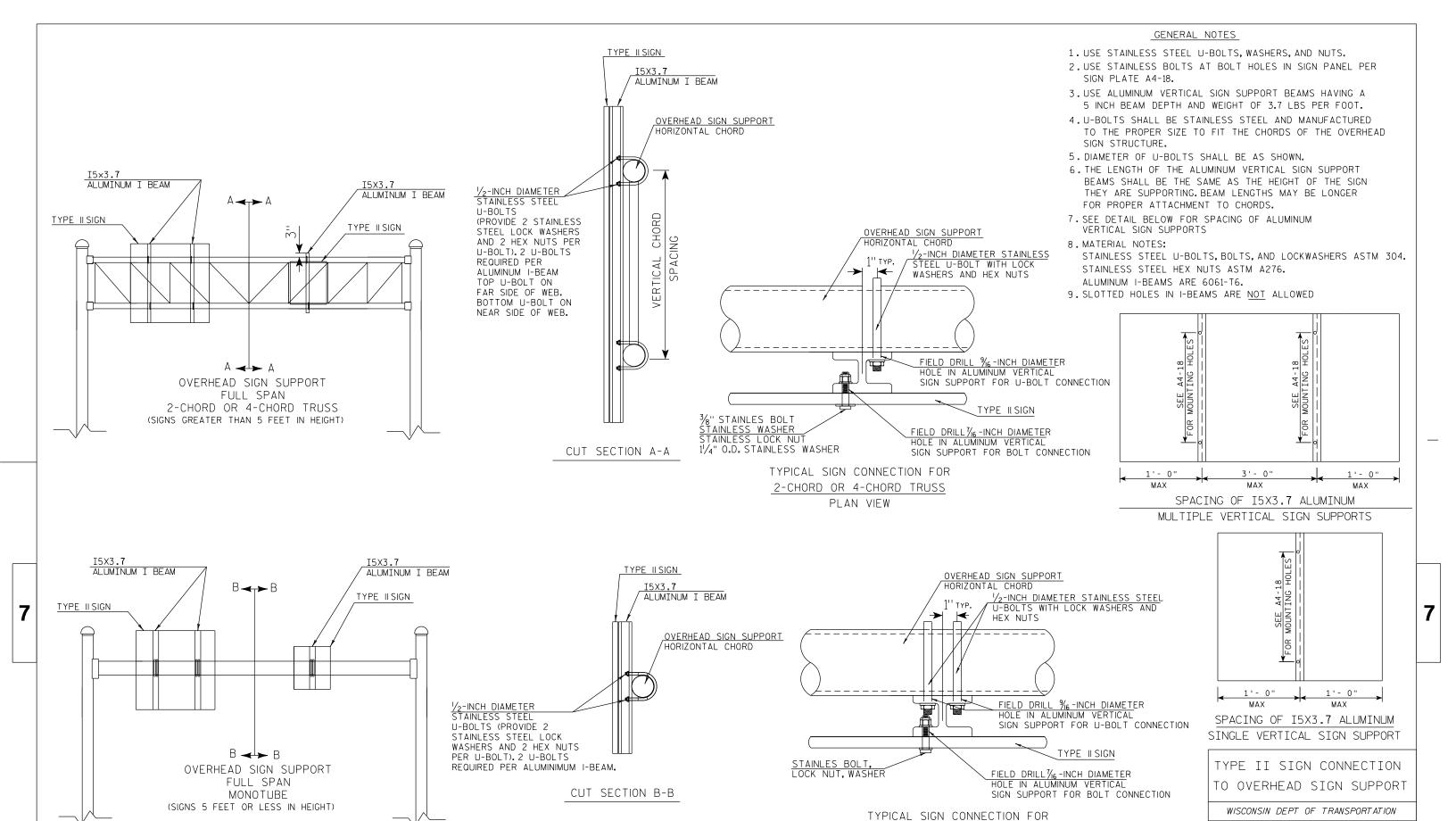
COUNTY:

PLOT BY : mscj9h

PLOT NAME :

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

APPROVED



Ε PROJECT NO: HWY: COUNTY: SHEET NO: PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42 PLOT DATE: 7-Jan-2020 FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A47B.DGN PLOT BY : dotc4c PLOT NAME :

MONOTUBE PLAN VIEW

APPROVED

DATE 1/07/20

PLATE NO. <u>A4-7B.1</u>



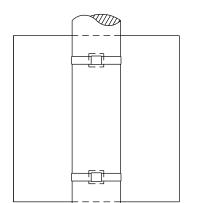
PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

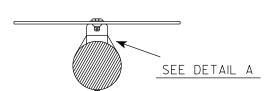
PLATE NO. <u>A4-9.9</u>

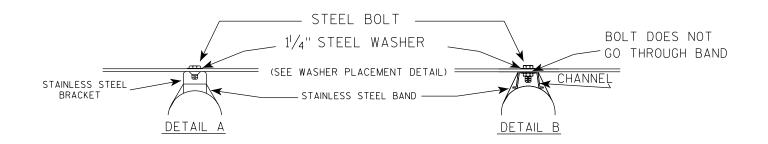
For State Traffic Engineer

BANDING

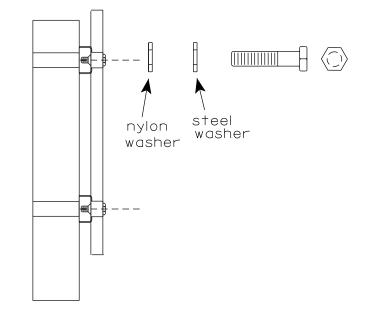


SINGLE SIGN





WASHER PLACEMENT



HWY:

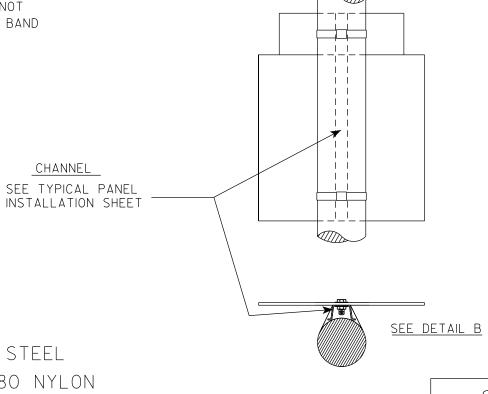
WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" 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

SHEET NO:

State Traffic Engineer

Ε

APPROVED

DATE 6/10/19 PLATE NO. A5-9.4

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn

PROJECT NO:

PLOT BY: mscj9h

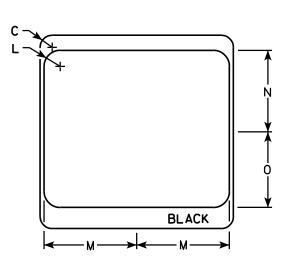
CHANNEL

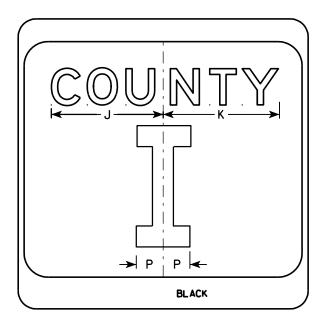
- 1. Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

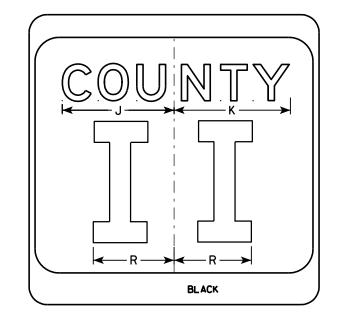
Background - White & Black - See Note 7 Message - Black

- 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	L	M	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 %	2 1/4		6 %									4.0
3	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
4	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
5	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
																			_								

COUNTY:

CTH MARKER M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

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

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M15A.DGN

PROJECT NO:

BLACK

HWY:

M1-5A

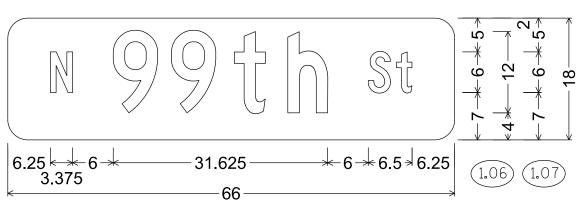
PLOT DATE: 29-SEP-2011 11:25

PLOT NAME :

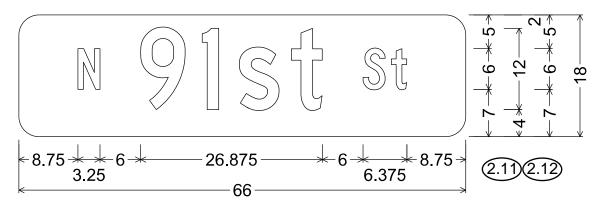
PLOT BY: mscsja

PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42



M1-94H; 3.000" Radius, No border



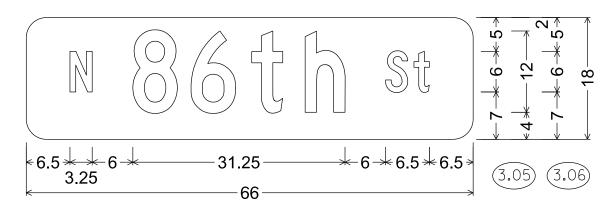
M1-94H; 3.000" Radius, No border

NOTES

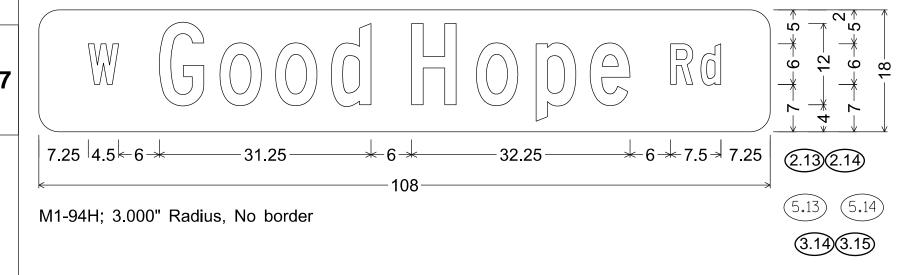
- 1. All Signs Type II Type H Reflective
- 2. Color:

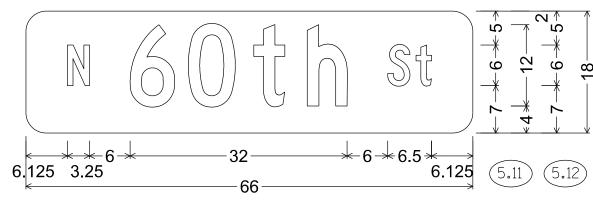
Background - Green Message - White

3. Message Series - C



M1-94H; 3.000" Radius, No border





M1-94H; 3.000" Radius, No border

PLOT NAME :

PROJECT NO: 2984-07-76

HWY: CTH PP

COUNTY: MILWAUKEE

PERMANENT SIGNING

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_d2_2403b622.DGN

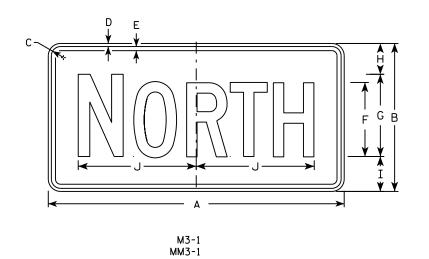
PLOT DATE: 23-JUNE 2022 9:36

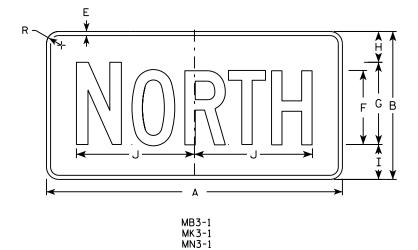
PLOT BY : dotc4c

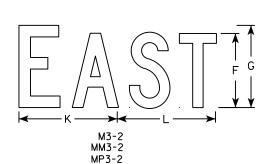
PLOT SCALE :

WISDOT/CADDS SHEET 42

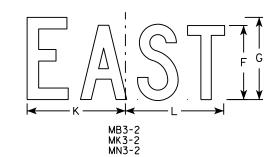
Ε

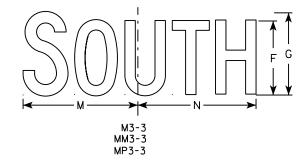


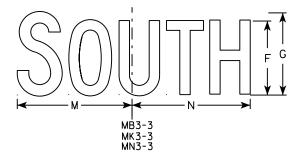


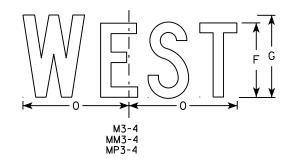


MP3-1

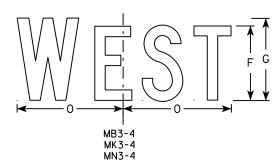








HWY:



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	Q	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:

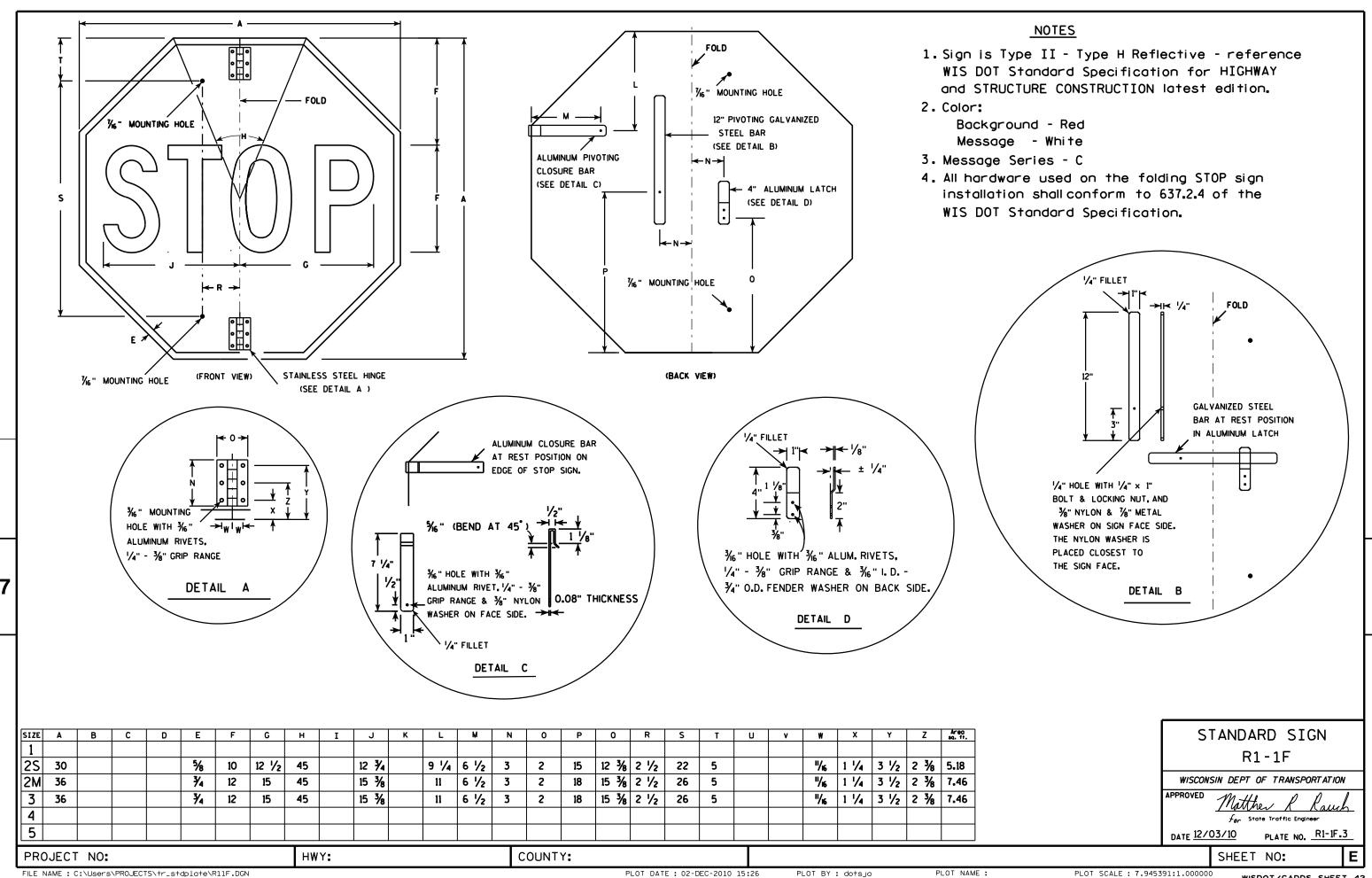
FILE NAME · C·\CAFfiles\Projects\tr stdnlote\M31 DCN

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 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

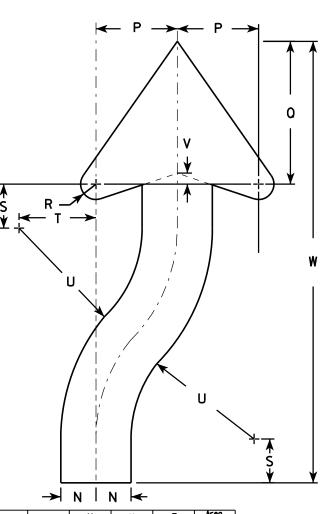
PROJECT NO:

HWY:

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
- 2. Color:

Background - White Message - Black

- 3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
- 4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

																							→	N I	N 		
SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	٧	W	×	Y	Z	Arec sq. f
1	18	24	1 1/8	3∕8	1/2	3 %	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5%	1 %	3 1/4	6 3/4	1/2	20 3/8				3.0
25	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 1/8	3	8	4	12 1/2	2	30	4 %	8 1/8	1 / ₈	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2N	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 1/8	3	8	4	12 1/2	2	30	4 %	8 1/8	7 ⁄8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 %	11 1/8	2 1/8	4 1/2	12	6	18 3/4	3	45	6 %	12 1/4	1 1/4	3 3/4	6 %	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 1/8	4 1/2	12	6	18 3/4	3	45	6 %	12 1/4	1 1/4	3 3/4	6 %	13 1/2	1	40 3/4				12.
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 %	5	8 ¾	18	1 1/4	50 1/4				20.

COUNTY:

R4-7

STANDARD SIGN R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

State Traffic Engineer
3/25/2011 PLATE NO. R4-

DATE 3/25/2011 PLATE NO. R4-7.8

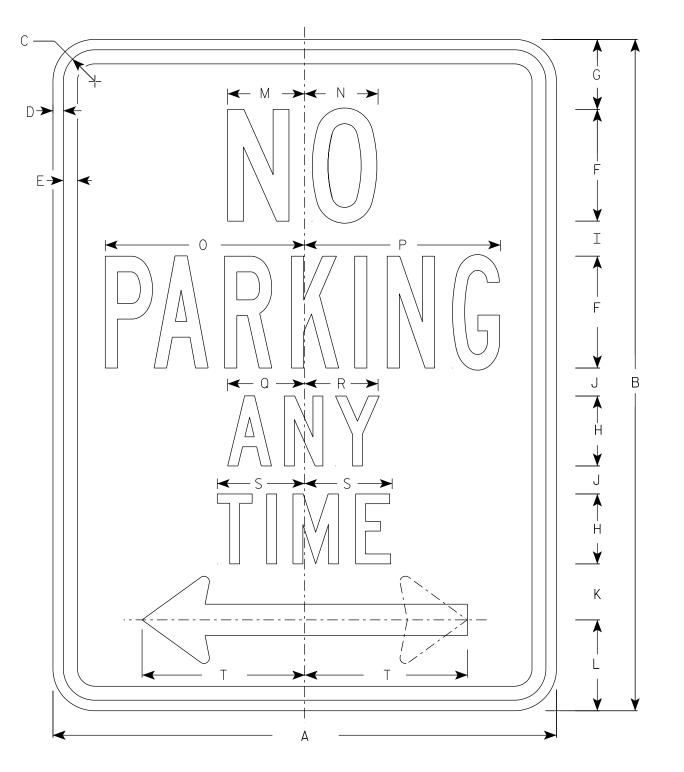
SHEET NO:

PROJECT NO:

D→

HWY:

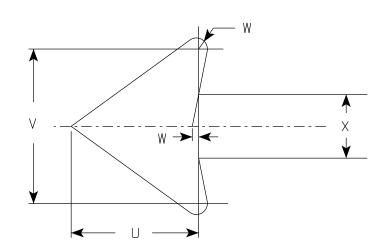
PLOT BY: mscsja



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

Background - White Message - Red

- 3. Message Series See Note 5
- 4. Lines 1, 3 and 4 are series C, line 2 is series B.
- 5. R7-1D (double arrow) R7-1L (left arrow) R7-1R (right arrow)



R7-1

SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 1/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 1//8	4 7/8	2 1/4	2 1/8	2 1/2	3 1/8	1 1/2	1 3/4	1/8	3/4			1.5
25	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2	7 1/8	7	2 3/4	2 %	3 1/8	5 1/8	2 1/4	2	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

COUNTY:

STANDARD SIGN R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE <u>3/31/2021</u>

PLATE NO. <u>R7-1.10</u>

SHEET NO:

Ε

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.dgn

HWY:

PROJECT NO:

PLOT DATE : 30-MAR 2021 1:22

PLOT BY : dotc4c

PLOT NAME :

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

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov