WOODED OR SHRUB AREA

DECEMBER 2021 FEDERAL PROJECT STATE PROJECT STATE OF WISCONSIN ORDER OF SHEETS PROJECT 5990-01-28 WISC 2022077 **DEPARTMENT OF TRANSPORTATION** PLAN OF PROPOSED IMPROVEMENT Standard Detail Drawings Sign Plates CITY OF JANESVILLE, W. MEMORIAL DRIVE (N. WASHINGTON STREET INTERSECTION) **LOCAL STREET** TOTAL SHEETS = 120 **ROCK COUNTY** STATE PROJECT NUMBER 5990-01-28 ACCEPTED FOR CITY OF JANESVILLE END PROJECT 5990-01-28 STA 58+04.85 ORIGINAL PLANS PREPARED BY BEGIN PROJECT 5990-01-28 STA 50+00.00 Y = 273138.14PETERSON AVENUE X = 489084.23DESIGN DESIGNATION INTERSECTION IMPROVEMENT ASHLAND AVENUE (2022) = 16,900 AADT A.A.D.T. (2032)= 18,600 ASHLAND AVENUE D.H.V. = 2200 D.D = 59141 = 9% BRAD R DESIGN SPEED = 35 MPH HALVENSLEBEN = 2,475,000 ESALS BELLEVILLE, W. MEMORIAL DRIVE W. MEMORIAL DRIVE CONVENTIONAL SYMBOLS PROFILE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE GREENVIEW AVENUE MARSH OR ROCK PROFILE DATE: 07/22/21 (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE MAPLE COURT CULVERT (Profile View) SLOPE INTERCEPT MAPLE AVENUE REPARED BY UTILITIES REFERENCE LINE EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS LAYOUT STORM SEWER 400 FT HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN SCALE COORDINATE REFERENCE SYSTEM (WISCRS), ROCK COUNTY, PPROVED FOR THE DEPARTMENT 07/27/2021 NAD83 (2011), IN U.S. SURVEY FEET, POSITIONS SHOWN ARE GRID MARSH AREA COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES UTILITY PEDESTAL

Ε

CONTRACT

POWER POLE

TELEPHONE POLE

q

TOTAL NET LENGTH OF CENTERLINE = 0.352 MI

ARE THE SAME AS GROUND DISTANCES, ELEVATIONS ARE REFERENCED

TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A

# **ABBREVIATIONS**

BASE AGGREGATE DENSE

ВМ BENCH MARK BUILDING

BLDG. CONCRETE BARRIER TEMPORARY PRECAST CBTP

CTR CENTER

CENTERLINE C/L COMMERCIAL ENTRANCE C.E.

CONCRETE CONC

CSW CONCRETE SIDEWALK CMCP CORRUGATED METAL CULVERT PIPE

CP **CULVERT PIPE** 

CPCS CULVERT PIPE CORRUGATED STEEL CULVERT PIPE REINFORCED CONCRETE CPRC CULVERT PIPE REINFORCED CONCRETE CPRCHE

HORIZONTAL ELLIPTICAL CPT CONSTRUCTION PERMIT DYNAMIC MESSAGE SIGN DMS **ENERGY ABSORBING TERMINAL** 

EAT EASTBOUND EB ELEC ELECTRIC

INVERT ELEVATION EX. OR EXIST **EXISTING** FIBER OPTIC FO FIELD ENTRANCE F.E.

GAS GAS

НМА HOT MIX ASPHALT

HSE. HOUSE

LEFT HAND FORWARD LHF MANHOLE MH MAX. MAXIMUM MINIMUM MIN NB NORTHBOUND NOR. NORMAL

NOT TO SCALE NTS

PERMANENT LIMITED EASEMENT PLE PRIVATE ENTRANCE

P.E. P.L. PROPERTY LINE

PROPOSED RIGHT-OF-WAY PRW RAD OR R RADIUS

REFERENCE LINE R/L REQUIRED REQ'D.

RIGHT HAND FORWARD RHF RW/ RIGHT-OF-WAY LINE SAN SANITARY SEWER SB SOUTHBOUND SHLD SHOULDER SIDEWALK

SW SQUARE FEET SF SY SQUARE YARD

S.D.D. STANDARD DETAIL DRAWING

STA STATION SS STORM SEWER TELEPHONE TEL

TLE TEMPORARY LIMITED EASEMENT

TYPICAL TYP WAT WATER WB WESTBOUND

FILE NAME :

#### **UTILITY CONTACTS**

#### COMMUNICATIONS

CAROL ANASON AT&T WISCONSIN 316 W WASHINGTON AVENUE MADISON, WI 53703 CA2624@ATT.COM (608) 252-2385 (OFFICE) (608) 622-2079 (MOBILE)

#### COMMUNICATIONS

BRIAN KOFHN **SPECTRUM** 1348 PLAINFIELD AVENUE JANESVILLE, WI 53545 BRIAN.KOEHN@CHARTER.COM (608) 274-3822 (608) 209-8659 (MOBILE)

#### SANITARY SEWER

CRAIG THIESENHUSEN WATER UTILITY 123 E DELAVAN DRIVE JANESVILLE, WI THIESENHUSENC@CI.JANESVILLE.WI.US (608) 373-3471

#### GAS

ZACHARY STOCKS ALLIANT ENERGY 3730 KENNEDY ROAD JANESVILLE, WI 53545-8812 (608) 757-7516 ZACHARYSTOCKS@ALLIANTENERGY.COM

#### WATER

CRAIG THIESENHUSEN WATER UTILITY 123 E DELAVAN DRIVE JANESVILLE, WI THIESENHUSENC@CI.JANESVILLE.WI.US (608) 373-3471

#### **ELECTRICITY**

**ZACHARY STOCKS** ALLIANT ENERGY 3730 KENNEDY ROAD JANESVILLE, WI 53545-8812 (608) 757-7516 ZACHARYSTOCKS@ALLIANTENERGY.COM

### ORDER OF DETAIL SHEETS

PROJECT OVERVIEW TYPICAL SECTIONS PLAN DETAILS

PERMANENT SIGNING/PAVEMENT MARKING PLAN

TRAFFIC SIGNAL PLAN TRAFFIC CONTROL PLAN

ALIGNMENT AND CONTROL POINT

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

\*\* DENOTES A UTILITY IS NOT A DIGGER MEMBER

#### **DESIGN CONTACT**

BRAD HALVENSLEBEN, P.E. KL ENGINEERING, INC. 5400 KING JAMES WAY SUITE 200 MADISON, WI 53719 (608) 663-1218 BHALVENSLEBEN@KLENGINEERING.COM

#### **DESIGN CONTACT**

ZACHARY PEARSON WISCONSIN DEPARTMENT OF TRANSPORTATION 2101WRIGHT STREET MADISON, WI 53704 (608) 246-5319 ZACHARY.PEARSON@DOT.WI.GOV

# **GENERAL NOTES**

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN IN THE PLAN, ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. CONTACT DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO START OF WORK.

REMOVAL ITEMS REQUIRING RESTORATION OF CONCRETE OR ASPHALT SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

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

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

THE ASPHALTIC SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.

## **DESIGN CONTACT**

AHNARAY BIZJAK CITY OF JANESVILLE ENGINEERING 18 NORTH JACKSON STREET JANESVILLE, WI 53547 (608) 7553171 BIZJAKA@CI.JANESVILLE.WI.US

# **DNR LIAISON**

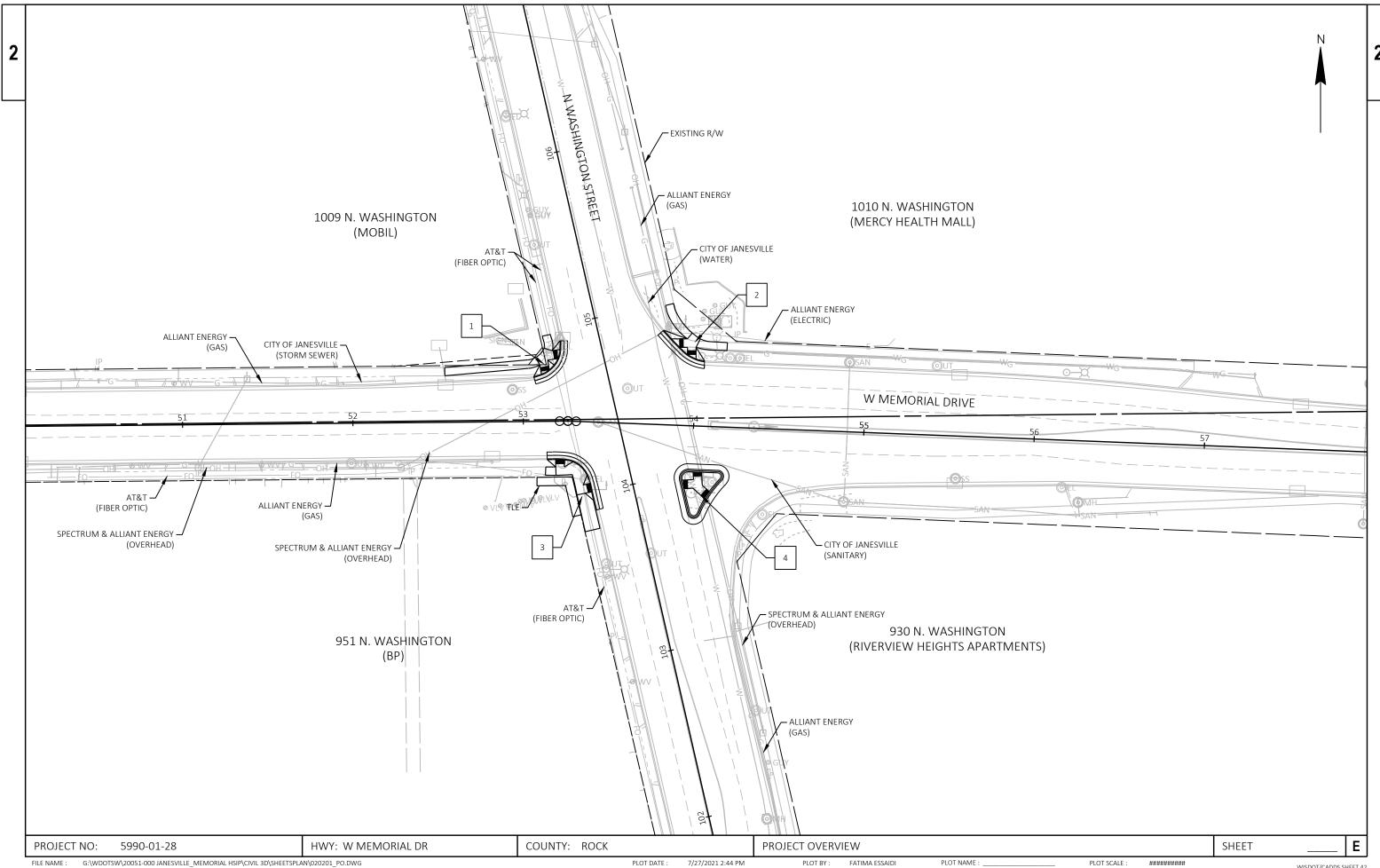
SHELLEY NELSON DNR SOUTH CENTRAL REGION HEADQUARTERS 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711 PHONE: 608-444-2835 EMAIL: SHELLEY.NELSON@WISCONSIN.GOV

#### OTHER CONTACT

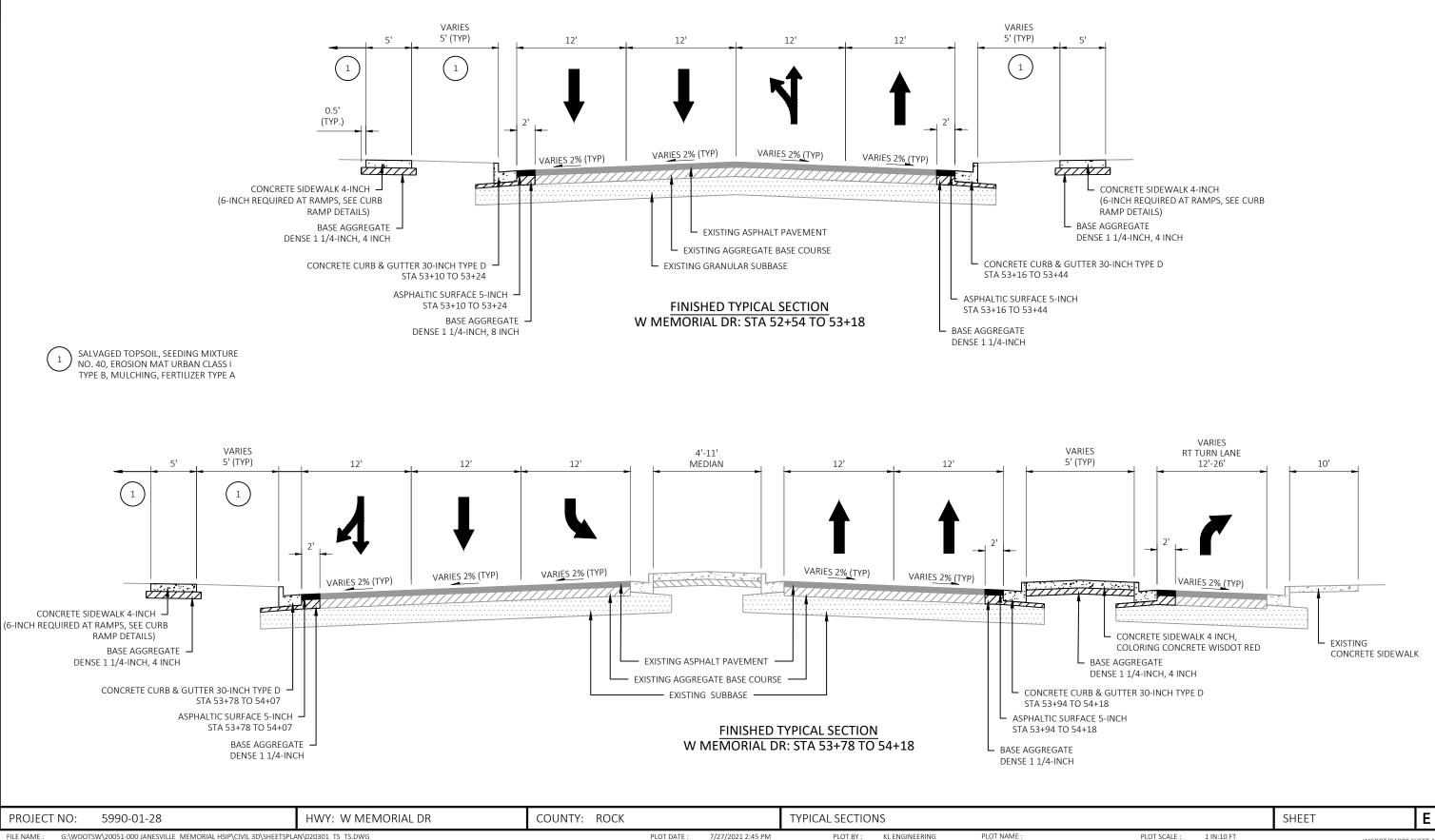
MATT GOSLINE JANESVILLE CITY SERVICES STREETLIGHTS/TRAFFIC SIGNALS 2200 US 51 JANESVILLE, WI 53545 OFFICE: 608-373-3407 CELL: 608-751-5220

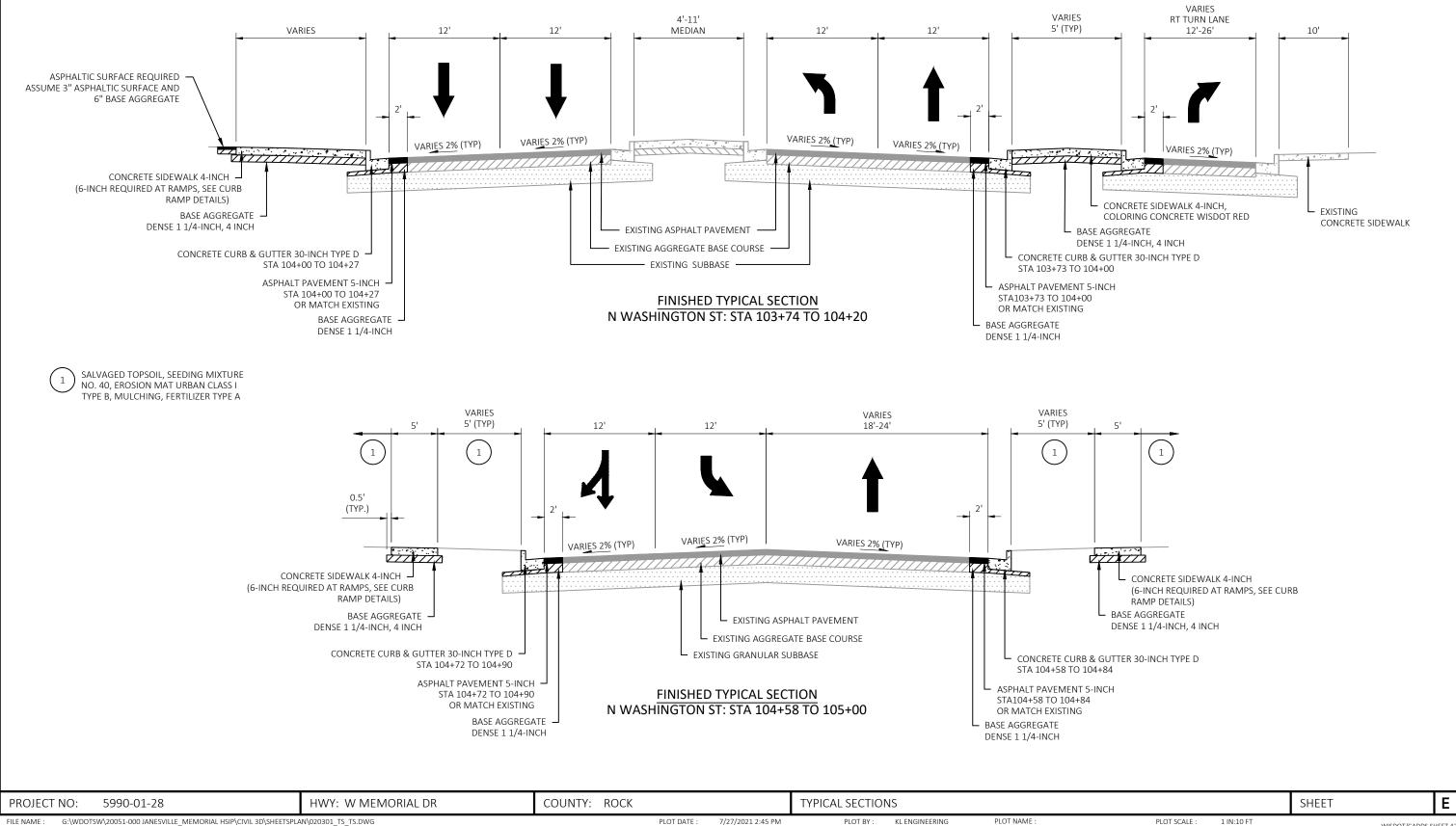
KL ENGINEERING

PROJECT NO: 5990-01-28 HWY: W MEMORIAL DR COUNTY: ROCK **GENERAL NOTES SHEET** Ε



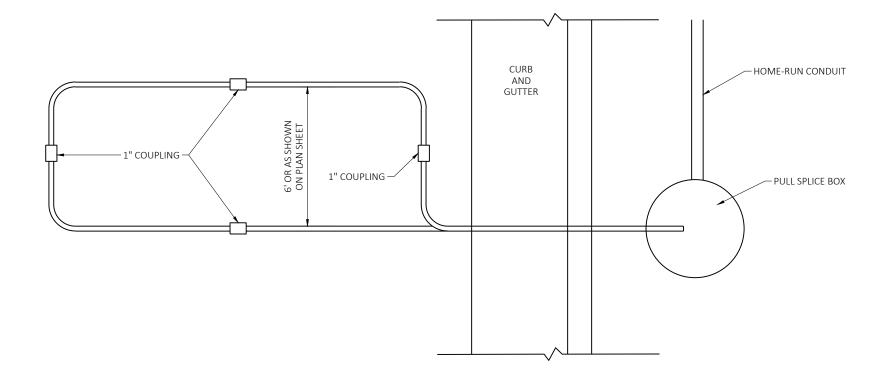






# SPECIAL LOOP DETECTOR INSTALLATION DETAIL (PAVEMENT SECTION - NTS)

SPECIAL LOOP DETECTOR INSTALLATION DETAIL (PLAN VIEW - NTS)



#### **GENERAL NOTES**

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

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENT'S APPROVED PRODUCT LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISITANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL BOX. AND BE INSTALLED IN ONE. NON-SPLICED. CONTINUOUS LENGTH.

IN THE EVENT THAT THE EXISTING PAVEMENT IS MORE THAN 5 INCHES THICK, AND THEREFORE, THE 1 INCH CONDUIT DOES NOT REQUIRE INSTALLATION BELOW THE PAVEMENT INTO THE BASE COURSE, PLACE SOME OF THE TAR OR EPOXY SEALANT IN THE SLOT TO A DEPTH OF APPROXIMATELY ½ INCH BEFORE INSTALLATION OF THE CONDUIT. IF THE CONDUIT MUST BE PLACED IN THE BASE COURSE, DO NOT PLACE TAR OR EPOXY SEALANT IN THE SLOT.

ONCE THE 2" LOOP SLOT HAS BEEN CHIPPED OUT, THE LOOP INSTALLATION SHALL BE COMPLETED PRIOR TO OPENING THE LANE(S) TO TRAFFIC.

THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

\*\* AFTER THE HIGH PERFORMANCE COLD PATCH HAS BEEN TAMPED, SEAL THE SLOT/HIGH PERFORMANCE COLD PATCH/PAVEMENT OPENING WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".

IN THE EVENT HIGH PERFORMANCE COLD PATCH IS NOT AVAILABLE, AND FLEXIBLE TYPE EPOXY IS USED AS A LOOP SLOT FILLER, THE 2 INCH SLOT SHALL BE TOTALLY CLEAN AND DRY BEFORE ITS INSTALLATION. EPOXY USE SHALL BE APPROVED BY THE DISTRICT TRAFFIC ENGINEER AND THE FURNISHED EPOXY SHALL BE INSTALLED AFTER WRITTEN APPROVAL BY THE PROJECT ENGINEER.

FOR DETAILS NOT SHOWN SEE S.D.D. LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT.

PROJECT NO: 5990-01-28 HWY: W MEMORIAL DR COUNTY: ROCK SPECIAL LOOP DETECTOR DETAIL

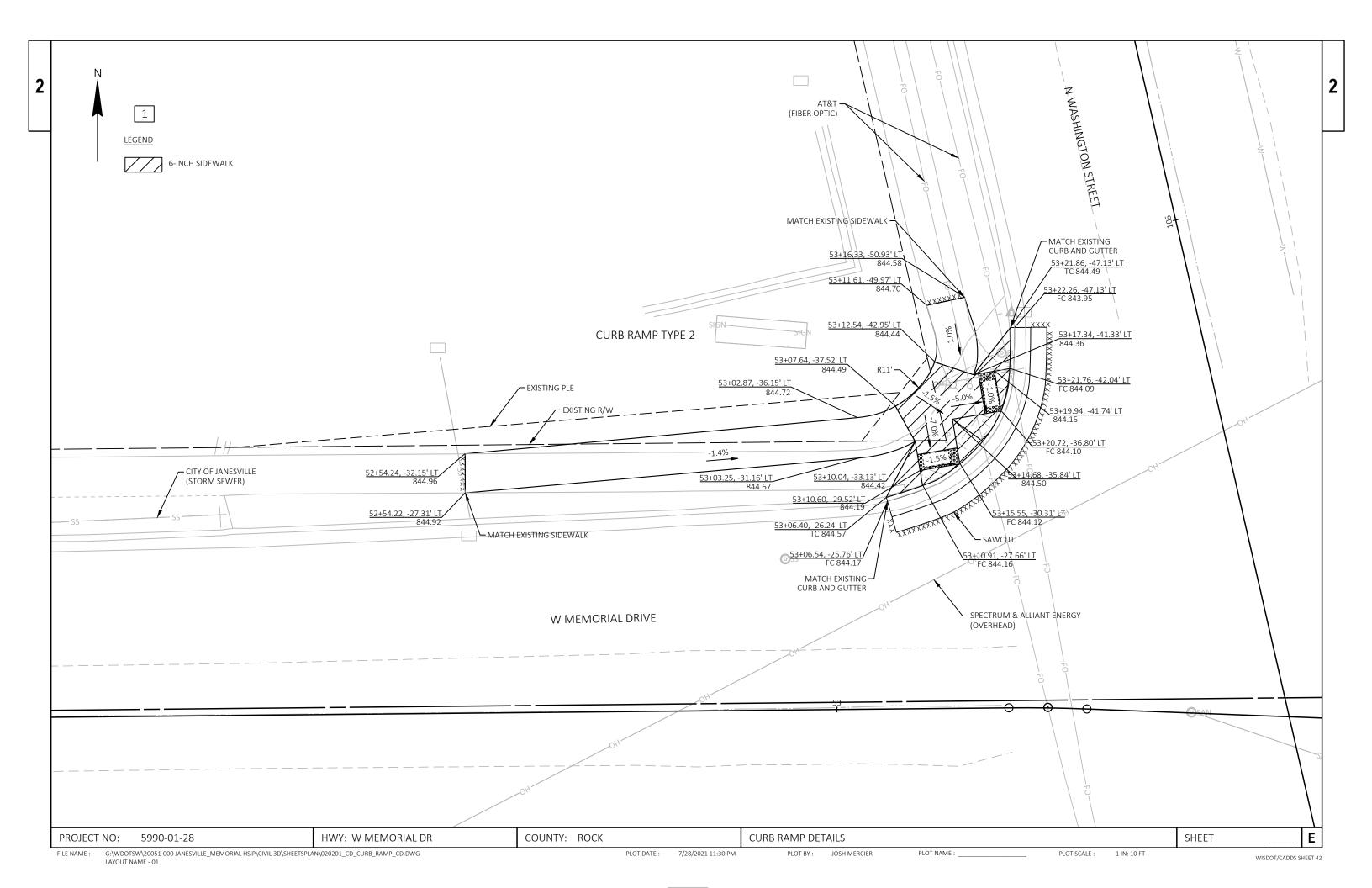
SHEET SHOW OF SPECIAL LOOP DETECTOR DETAIL

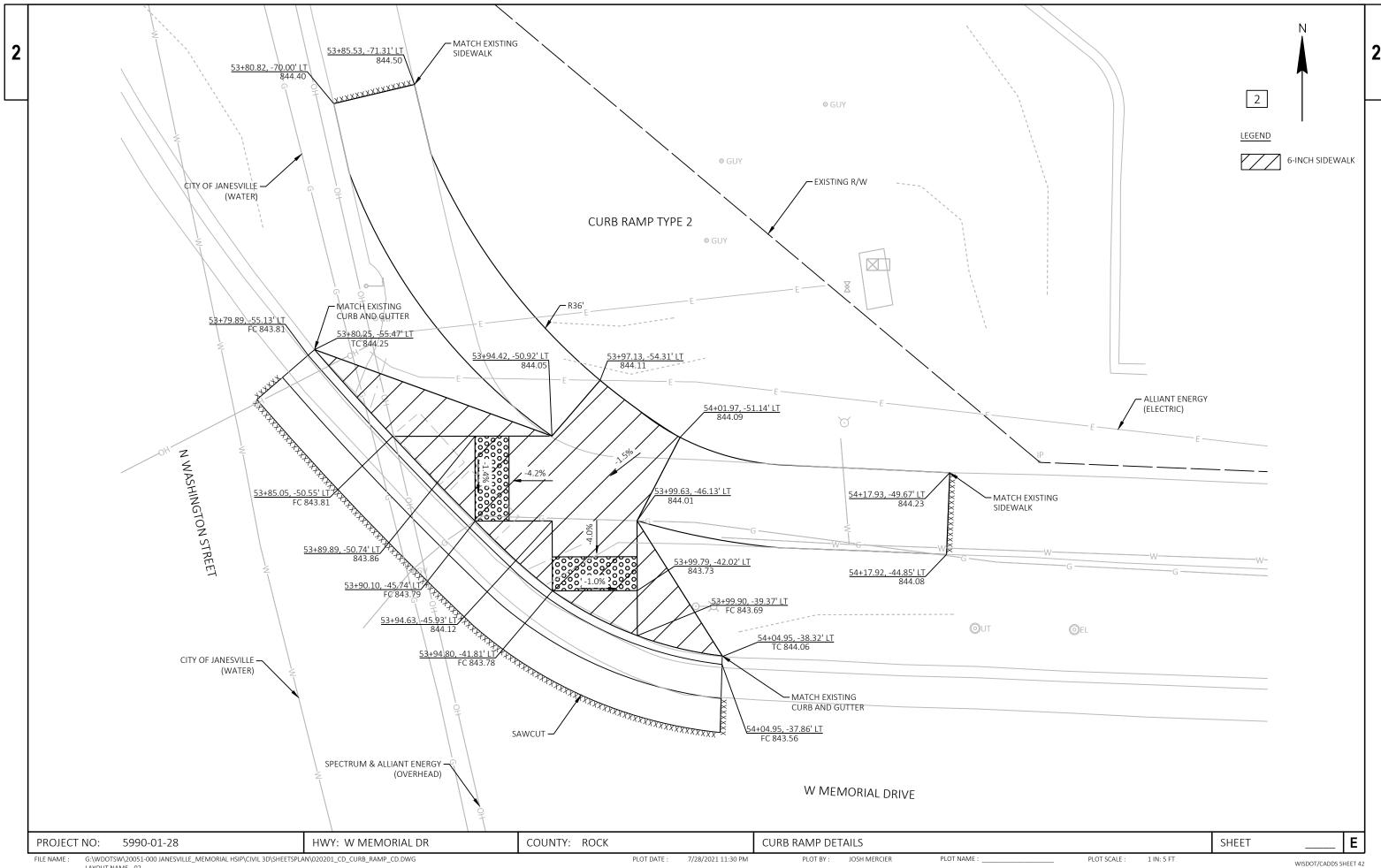
SHEET SHEET SHEET SHEET SPLAN (2020) CD SPECIAL-LOOP, DWG

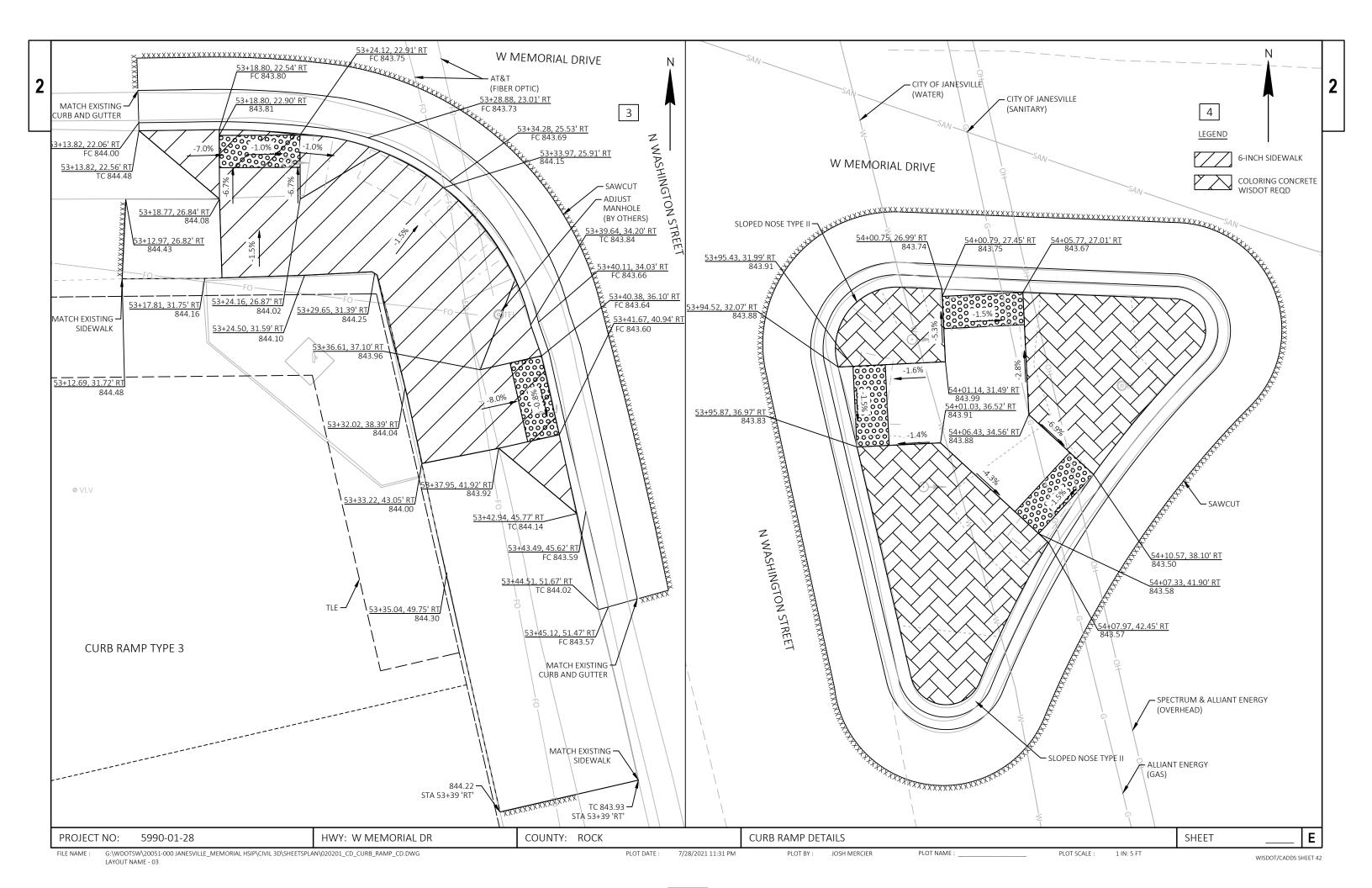
PLOT DATE: 7/30/2021 10:47 AM PLOT BY: JOSH MERCIER PLOT NAME: PLOT NAME: 1 1 IN:2 FT SHEET SH

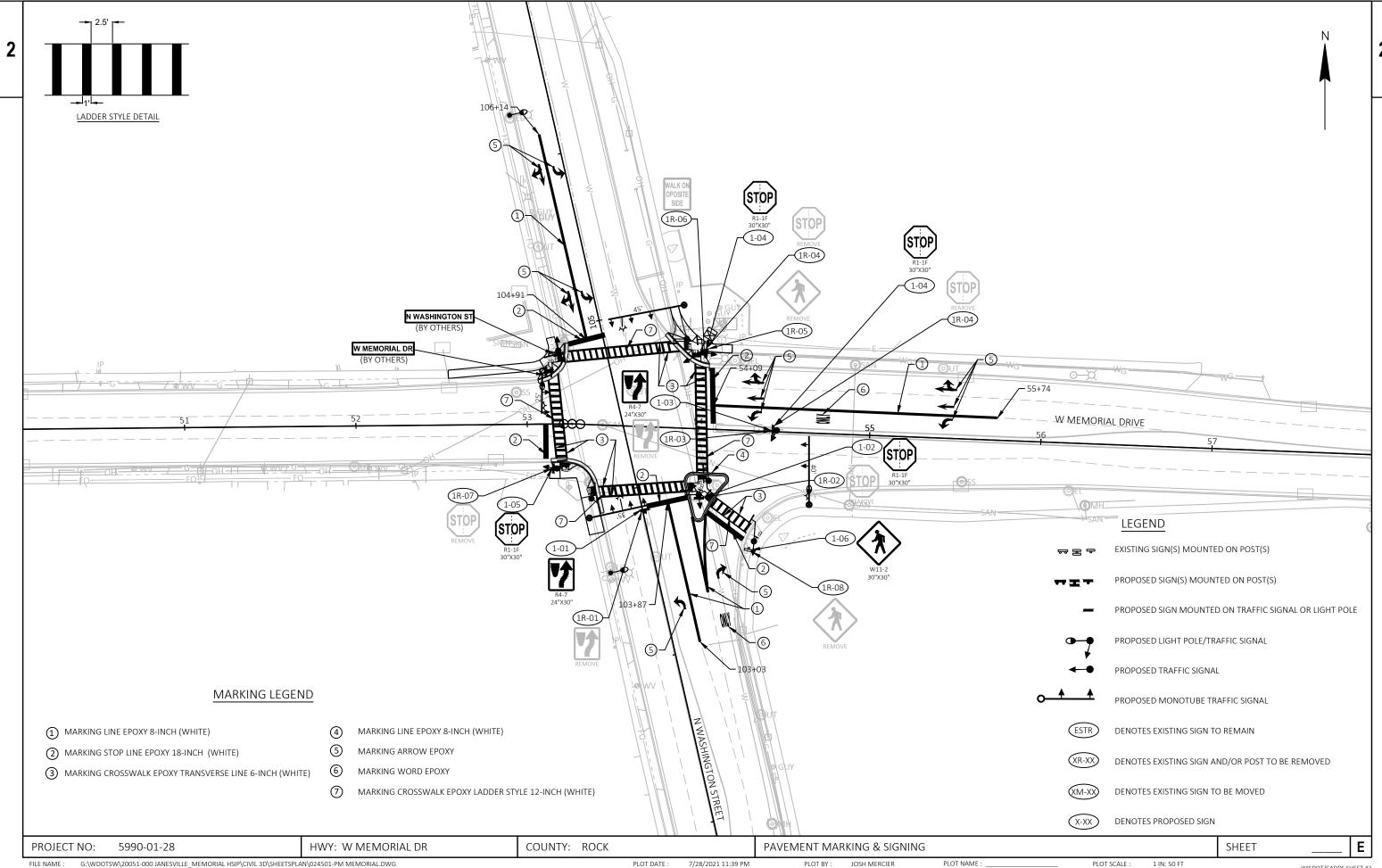
BACKFILL & COMPACT AROUND

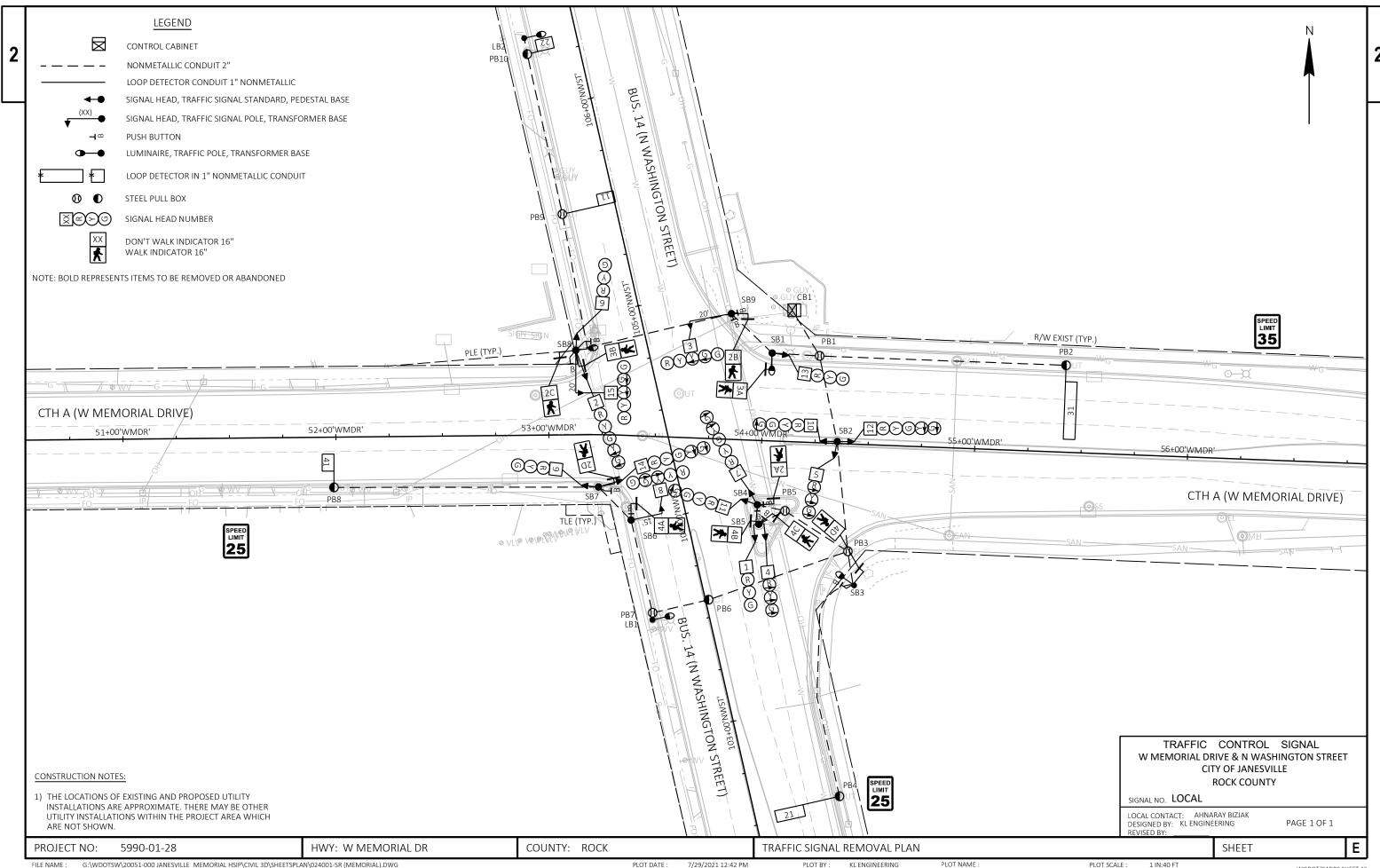
LAYOUT NAME - Plan 1 IN 10 FT

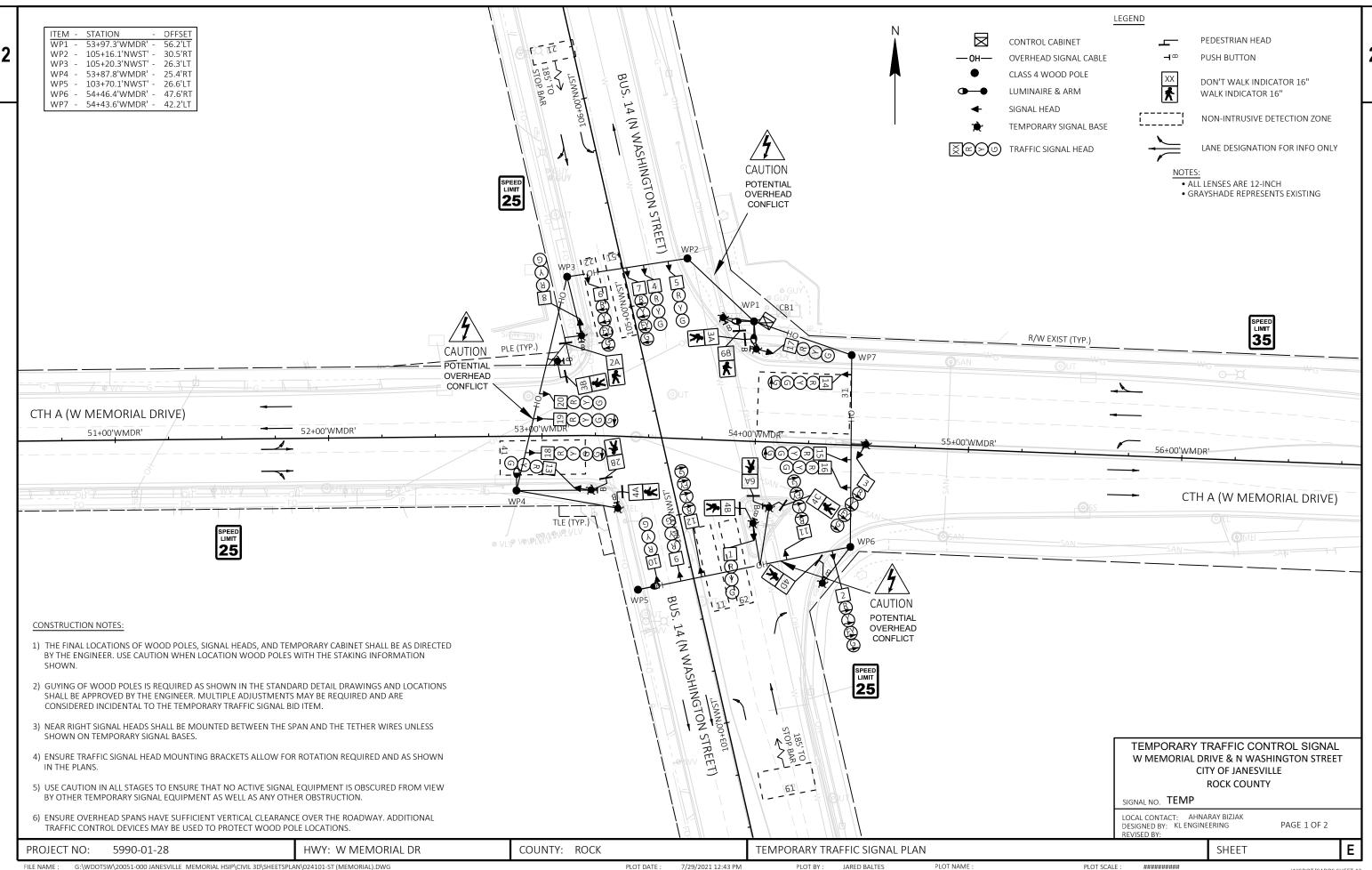


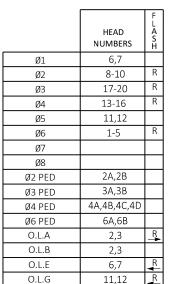


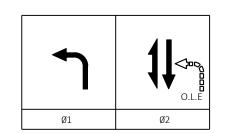


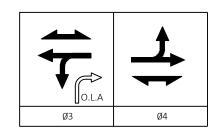


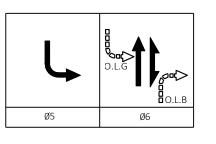












BARRIER

19

17

23

21

27

25

31

29

NOT	NOT
USED	USED
Ø7	Ø8

LEGEND OVERLAP

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W/Ø	PHASE RECALL	PHASE ACTIVE
1		6		Х
2	Х	6	MIN	Х
3				Х
4				Х
5		2		Х
6	Х	2	MIN	Х
7				
8				

PREEMPTION ASSIGNMENTS							
PREEMPTION DESIGNATION	PREEMPTION TYPE	EVP CHANNEL	PHASE(S) CALLED	PREEMPTION APPROACH			
1	RESERVED						
2	RESERVED						
3	NOT USED						
4	NOT USED						
5	NOT USED						
6	NOT USED						
7	NOT USED						
8	NOT USED						
9	NOT USED	·					
10	NOT USED						

TYPE OF INTERCONNECT	
NONE	Х
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	
RADIO	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	Χ
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF REMOTE COMMUNICATION				
NONE	Χ			
FIBER				
CELL MODEM				
PHONE				

TYPE OF PRE-EMPT	
NONE	Χ
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR #(S)	11	21	22	31	41	51	61	62
PHASE CALLED	1	2	2	3	4	5	6	6
PHASE EXTENDED	1	2	2	3	4	5	6	6
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								
DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR INPUT  DETECTOR #(S)	4	2	8	6	12	10	16	14
	4	2	8	6	12	10	16	14
DETECTOR #(S)	4	2	8	6	12	10	16	14
DETECTOR #(S) PHASE CALLED	4	2	8	6	12	10	16	14
DETECTOR #(S)  PHASE CALLED  PHASE EXTENDED	4	2	8	6	12	10	16	14
DETECTOR #(S)  PHASE CALLED  PHASE EXTENDED  DISCONNECT TIME	4	2	8	6	12	10	16	14

11

9

15

13

HWY: W MEMORIAL DR

EXTEN								
LOOP FU								
,	,			•	•	•	•	
DETECT	30	32	26	28	22	24	18	20
DETEC								
PHASE								
PHASE								
DISCON								
CALLIN								
EXTEN								
LOOP FL								

COUNTY: ROCK

CTOR INPUT CTOR #(S) E EXTENDED NNECT TIME

DETECTOR INPUT DETECTOR #(S) PHASE CALLED PHASE EXTENDED DISCONNECT TIME

> TRAFFIC CONTROL SIGNAL W MEMORIAL DRIVE & N WASHINGTON STREET CITY OF JANESVILLE ROCK COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: AHNARAY BIZJAK DESIGNED BY: KL ENGINEERING REVISED BY:

PAGE 2 OF 2

FILE NAME : G:\WDOTSW\20051-000 JANESVILLE\_MEMORIAL HSIP\CIVIL 3D\SHEETSPLAN\024101-ST (MEMORIAL).DWG

5990-01-28

PROJECT NO:

PLOT DATE :

PLOT SCALE :

SHEET

Ε

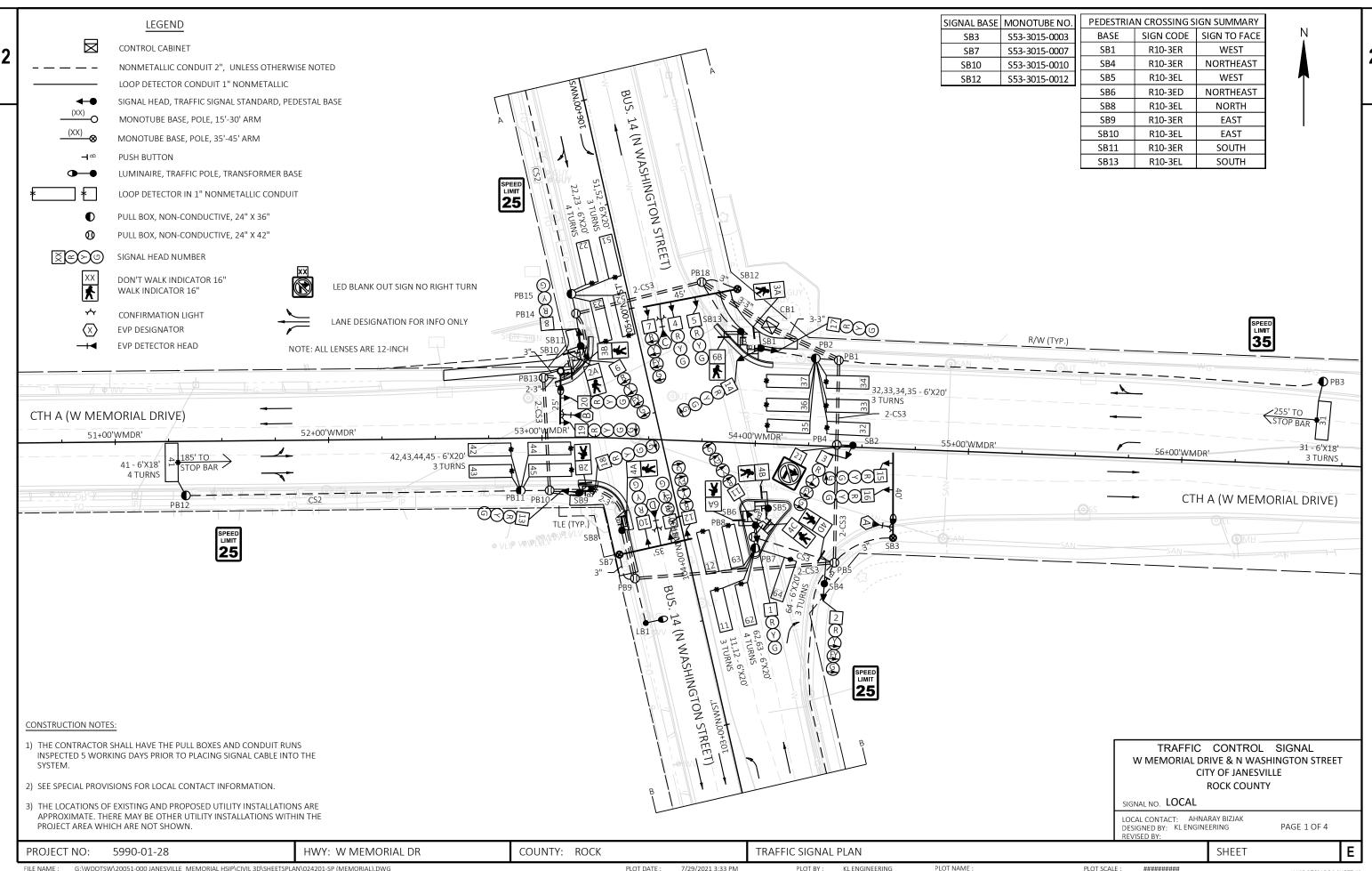
7/29/2021 12:44 PM

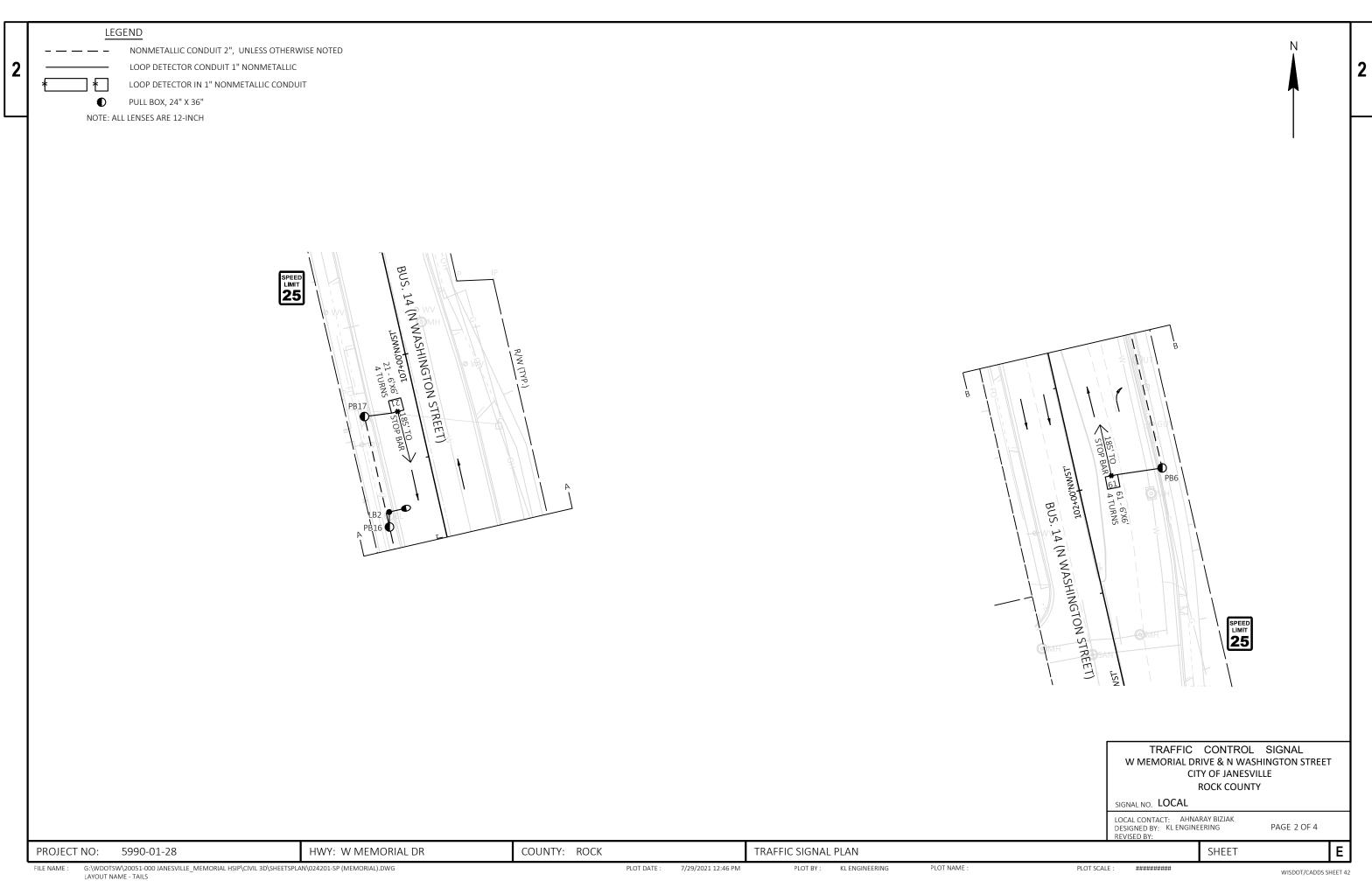
PLOT BY: JARED BALTES

TEMPORARY SEQUENCE OF OPERATIONS

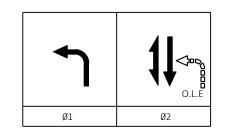
PLOT NAME :

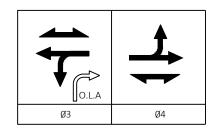
##########

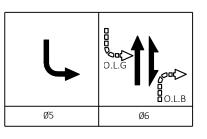


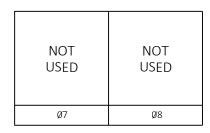


	HEAD NUMBERS	F L A S H
Ø1	6,7	-
Ø2	8-10	R
Ø3	17-20	R
Ø4	13-16	R
Ø5	11,12	_
Ø6	1-5	R
Ø7		
Ø8		
Ø2 PED	2A,2B	
Ø3 PED	3A,3B	
Ø4 PED	4A,4B,4C,4D	
Ø6 PED	6A,6B	
O.L.A	2,3	R
O.L.B	2,3	
O.L.E	6,7	<u>R</u>
O.L.G	11,12	R









#### GENERAL NOTES:

DETECTOR INPUT

DETECTOR #(S)

PHASE CALLED

PHASE EXTENDED

DISCONNECT TIME

EXTENSION STRETCH

LOOP FUNCTION

DETECTOR INPUT

DETECTOR #(S)

PHASE CALLED

PHASE EXTENDED

DISCONNECT TIME

EXTENSION STRETCH

FILE NAME :

LOOP FUNCTION

12

4

11

1

21

 NO TURN ON RED BLANK OUT SIGN SHALL BE ILLUMINATED WHEN PED PHASE 4 IS TIMING THE WALK OR DON'T WALK INTERVAL.

7

23

2

2

20

22

2

20

11

34

3

12

32

6

31

3

3

9

35

3

3

10

33

3

15

16

41

4

4

13

44

4

4

14

42

4

4

BARRIER

19

45

20

43 4 17

52

5

23

63

6

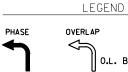
6

20

21

64

27





25

31

29

7/29/2021 4:09 PM

PHASE	PHASE	DUAL	PHASE	PHASE
NUMBER	LOCKING	ENTRY	RECALL	ACTIVE
		w/ø		
1		6		Х
2	Х	6	MIN	Х
3				Х
4				Х
5		2		Х
6	Х	2	MIN	Х
7				
8				

PREEMPTION ASSIGNMENTS							
PREEMPTION DESIGNATION	PREEMPTION TYPE	EVP CHANNEL	PHASE(S) CALLED	PREEMPTION APPROACH			
1	RESERVED						
2	RESERVED						
3	EVP	А	4	EB			
4	EVP	В	3	WB			
5	EVP	С	1,6	NB			
6	EVP	D	2,5	SB			
7	NOT USED						
8	NOT USED						
9	NOT USED						
10	NOT USED						

- 1. AFTER PREEMPTION SEQUENCE C OR D, CONTROLLER SHALL RETURN TO PHASE 2+6.
- 2. AFTER PREEMPTION SEQUENCE A, CONTROLLER SHALL RETURN TO PHASE 4.

DETECTOR INPUT

DETECTOR #(S)

PHASE CALLED

PHASE EXTENDED

DISCONNECT TIME

CALLING DELAY

EXTENSION STRETCH

18	24	22	28	26	32	30	DETECTOR INPUT
51	61	62					DETECTOR #(S)
5	6	6					PHASE CALLED
5	6	6					PHASE EXTENDED
		20					DISCONNECT TIME
							CALLING DELAY
							EXTENSION STRE
							LOOP FUNCTION

TYPE OF INTERCONNECT	
NONE	Х
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	
RADIO	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	Χ
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF REMOTE COMMUNICATION		
NONE	Χ	
FIBER		
CELL MODEM		
PHONE		

TYPE OF PRE-EMPT			
NONE			
RAILROAD			
EMERGENCY VEHICLE	Χ		
GTT	Χ		
TOMAR			
HARDWIRE			
OTHER			
LIFT BRIDGE			
QUEUE DETECTOR			

TRAFFIC CONTROL SIGNAL
W MEMORIAL DRIVE & N WASHINGTON STREET
CITY OF JANESVILLE
ROCK COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: AHNARAY BIZJAK DESIGNED BY: KL ENGINEERING REVISED BY:

PAGE 3 OF 4

PROJECT NO: 5990-01-28

HWY: W MEMORIAL DR

COUNTY: ROCK

SEQUENCE OF OPERATIONS

SHEET

G:\WDOTSW\20051-000 JANESVILLE\_MEMORIAL HSIP\CIVIL 3D\SHEETSPLAN\024201-SP (MEMORIAL).DWG LAYOUT NAME - SOO

PLOT DATE :

PLOT BY: KL ENGINEERING

PLOT NAME :

PLOT SCALE :

##########

WISDOT/CADDS SHEET 42

PROJECT NO:	5990-01-28
INTERSECTION:	W MEMORIAL DRIVE & N WASHINGTON STREET

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

DATE	21-Jul
------	--------

	F	T .	1	I					#BE 88:				T	I
	AWG 14#				VELLONI	CD5511		NDICATION V		CDEET	DIAZZZZ	1442.14	PED	
CB1 TO	OF COND.	HEAD NO.	PHASE	RED	YELLOW	GREEN	<red></red>	<yellow></yellow>	<flash yel=""></flash>	<green></green>	DWALK	WALK	BUTTON	OTHER
SB1	15	14	4	RED	ORG	GRN				GRN	-			
		17	3	RED/BLK	ORG/BLK	GRN/BLK								
		3A	3								BLK	BLU		
SB2	12	3	OLA/OLB				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		SIGN	4											WHT/BLK
SB3	12	15	4	RED	ORG	GRN				GRN				
		16	4	RED	ORG	GRN								
SB4	12	2	OLA/OLB				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		4D	4								BLK	BLU		
SB5	12	4B	4								BLK	BLU		
SB6	15	1	6	RED	ORG	GRN								
		11	5				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		4C	4				,		· ·	,	BLK	BLU		
		6A	6								RED/WHT	GRN/WHT		
SB7	12	9	2	RED	ORG	GRN								
33,	1	10	2	RED	ORG	GRN								
		12	5	INED	ONG	Citi	RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
							NEB/ BEIX	Onto, Ben	BEIG WITH	OITH, DER				
SB8	12	4A	4								BLK	BLU		
350	12	177	7						1		BER	520		
SB9	15	13	4	RED	ORG	GRN								
303	13	18	3	RED/BLK	ORG/BLK	GRN/BLK				GRN/BLK				
		2B	2	NED/BLK	ONG/BLK	GRIV/BLK			<del>                                     </del>	GNIN/BLK	BLK	BLU		
	+	ZB							<del>                                     </del>		BLK	BLU		
CD10	12	10		DED	ODC	CDN			<del>                                     </del>	CDN	+			
SB10	12	19 20	3	RED	ORG	GRN GRN		-	<del>                                     </del>	GRN	-			
	-	3B		RED	ORG	GKIN		-	<del>                                     </del>		עומ	DIII		
		38	3						<del>                                     </del>		BLK	BLU		
						-	252 (2111	000/000	B. 14 (5.4 (1.5)	0011/01/	-			
SB11	15	6	1				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		8	2	RED	ORG	GRN			ļl					
		2A	2								BLK	BLU		
SB12	12	4	6	RED	ORG	GRN								
		5	6	RED	ORG	GRN								
		7	1				RED/BLK	ORG/BLK	WHT/BLK	GRN/BLK				
SB13	12	6B	6								BLK	BLU		
	<u> </u>					<u> </u>								· · · · · · · · · · · · · · · · · · ·

EQUIPMENT GROUNDING		
CONDUCTORS 10 AWG GRN XLP		
FROM	ТО	
CB1	SB1	
SB1	SB2	
SB2	SB3	
SB3	SB4	
SB4	SB5	
SB5	SB6	
SB6	SB7	
SB7	SB8	
SB8	SB9	
SB9	SB10	
SB10	SB11	
SB11	SB12	
SB12	SB13	
SB13	CB1	

TRAFFIC SIGNAL EVP DETECTOR CABLE					
HEAD	FROM	TO			
Α	CB1	SB3			
В	CB1	SB10			
С	CB1	SB12			
D	CB1	SB7			

LIGHTING UF			
10 AWG W	/ GROUND		
FROM	ТО		
CB1	SB3		
SB3	LB1		
LB1	SB7		
CB1	SB10		
SB10	LB2		

LOOP DETECTOR	R LEAD IN CABLE
FROM	ТО
CB1	SB1 BUTTON
CB1	SB4 BUTTON
CB1	SB5 BUTTON
CB1	SB6 BUTTON
CB1	SB8 BUTTON
CB1	SB9 BUTTON
CB1	SB10 BUTTON
CB1	SB11 BUTTON
CB1	SB13 BUTTON

TRAFFIC CONTROL SIGNAL W MEMORIAL DRIVE & N WASHINGTON STREET CITY OF JANESVILLE ROCK COUNTY

SIGNAL NO. LOCAL

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

LOCAL CONTACT: AHNARAY BIZJAK DESIGNED BY: KL ENGINEERING REVISED BY:

PAGE 4 OF 4

PROJECT NO: 5990-01-28 HWY: W MEMORIAL DR

COUNTY: ROCK

CABLE ROUTING

PLOT BY: KL ENGINEERING

SHEET

Ε

#### TRAFFIC CONTROL GENERAL NOTES:

- ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER, REMOVING/REPLACING OR COVERING/UNCOVERING SIGNS WILL BE INCIDENTAL TO OTHER TRAFFIC CONTROL ITEMS.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE
- CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND SIGN MESSAGE BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE SIGNS AND SIGN MESSAGE BOARDS.
- IF SIGNS ARE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS
- ALL TRAFFIC CONTROL SIGNING SHALL CONFORM TO: PART VI OF THE WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE WISCONSIN SUPPLEMENT TO THE MUTCD, TRAFFIC ENGINEERING, OPERATIONS AND SAFETY MANUAL, AND OTHER CONTRACT DOCUMENTS.
- MOVE. REMOVE OR INSTALL ROUTE MARKER SIGNS AS REQUIRED TO MAINTAIN. NECESSARY ROUTE GUIDANCE THROUGHOUT CONSTRUCTION.
- CONTRACTORS EQUIPMENT AND MATERIAL STOCKPILES MAY NOT BE STORED WITHIN THE CONSTRUCTION CLEAR ZONE WHILE THE CONTRACTOR IS NOT WORKING, UNLESS THEY ARE PROTECTED BY CONCRETE BARRIER TEMPORARY PRECAST
- STAGE CONSTRUCTION OF CURB RAMPS AND SIDEWALK TO ALLOW CONTINUED PEDESTRIAN ACCESS TO EACH CITY BLOCK FROM AT LEAST ONE DIRECTION.

#### MAINTENANCE OF TRAFFIC:

#### W MEMORIAL DR.

• E MILWAUKEE ST. SHALL REMAIN OPEN TO ALL EXISTING LANES AT ALL TIMES EXCEPT FOR FLAGGING OPERATIONS AND LANE CLOSURES AS NOTED IN THE CONTRACT SPECIAL PROVISIONS

#### N WASHINGTON ST.

 S RANDALL AVE. SHALL REMAIN OPEN TO ALL EXISTING LANES AT ALL TIMES EXCEPT FOR FLAGGING OPERATIONS AND LANE CLOSURES AS NOTED IN THE CONTRACT SPECIAL PROVISIONS

#### LOCAL ROADS AND DRIVEWAYS

MAINTAIN LOCAL ACCESS AT ALL TIMES

#### SIDEWALKS

MAINTAIN ACCESS TO BUSINESSES AND RESIDENCES AT ALL TIMES

#### NOTES:

REFER TO THE FOLLOWING TRAFFIC CONTROL DETAILS, AS WELL AS STANDARD DETAIL DRAWINGS FOR TRAFFIC CONTROL DEVICES AS NECESSARY, UNLESS OTHERWISE DIRECTED BY THE ENGINEER:

- SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"
- SEE S.D.D. "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION"
- SEE S.D.D. "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY"
- SEE S.D.D. "TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES"
- SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION"
- SEE S.D.D. "TRAFFIC CONTROL, INTERSECTION WITHIN SIGNAL LANE CLOSURE"
- SEE S.D.D. "TEMPORARY TRAFFIC CONTROL, SIGN MOUNTING"
- SEE S.D.D. "TRAFFIC CONTROL FOR DROP-OFF SIGNING"

**BEGIN PROJECT 5990-01-28** STA 58+04+85

PCMS MESSAGE

1ST FRAME ROADWORK **BEGINS** (DATE)

24"X12"

(A)

5990-01-28

PROJECT NO:

(A)

24"X12'

HWY: W MEMORIAL DR

COUNTY: ROCK

TRAFFIC CONTROL

JOSH MERCIER

SHEET

G:\WDOTSW\20051-000 JANESVILLE\_MEMORIAL HSIP\CIVIL 3D\SHEETSPLAN\025001\_TC\_TC.DWG FILE NAME :

LAYOUT NAME - OVERVIEW

SEE S.D.D. "TRAFFIC CONTROL,

LANE, UNDIVIDED ROADWAY"

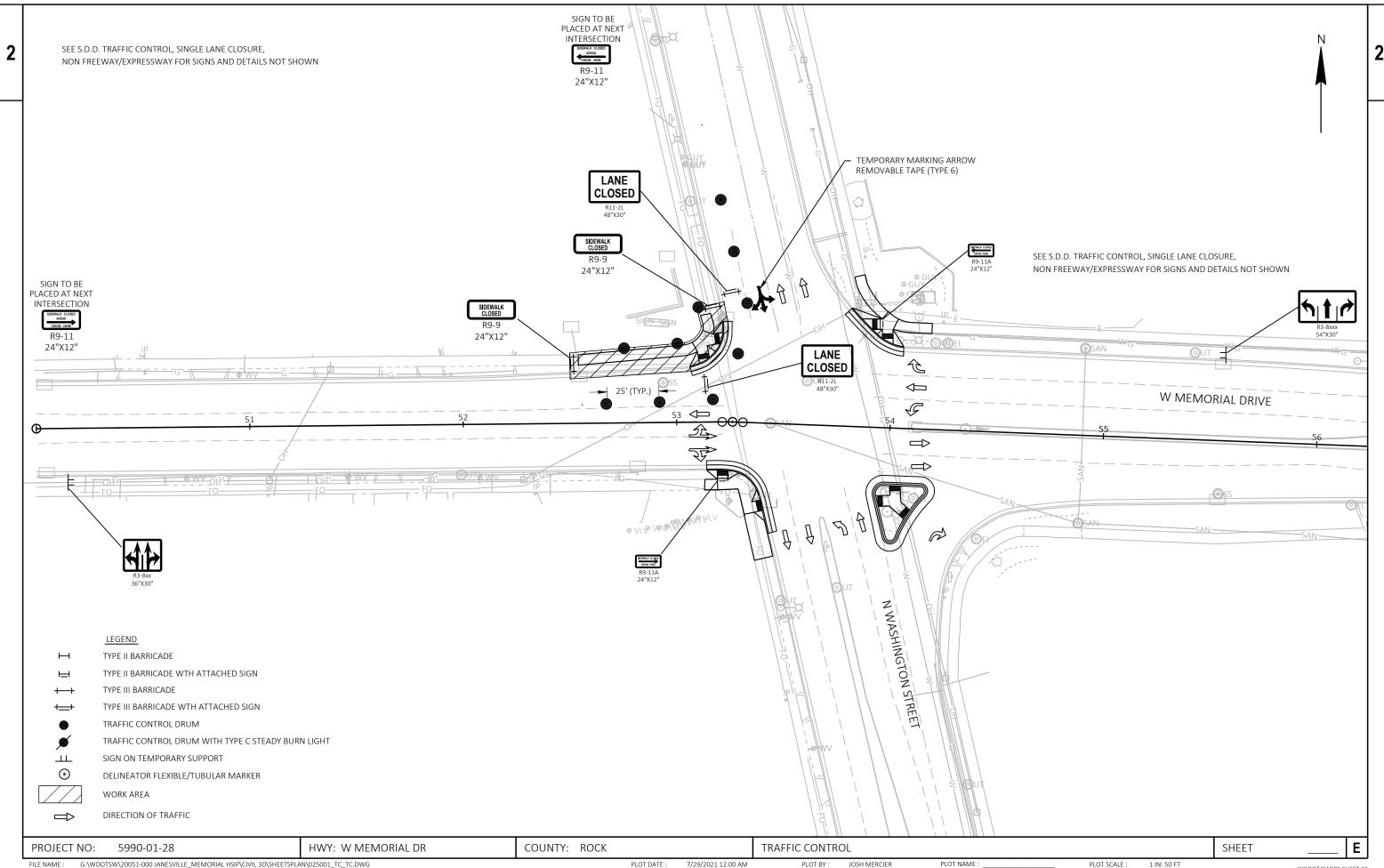
WORK ON SHOULDER OR PARKING

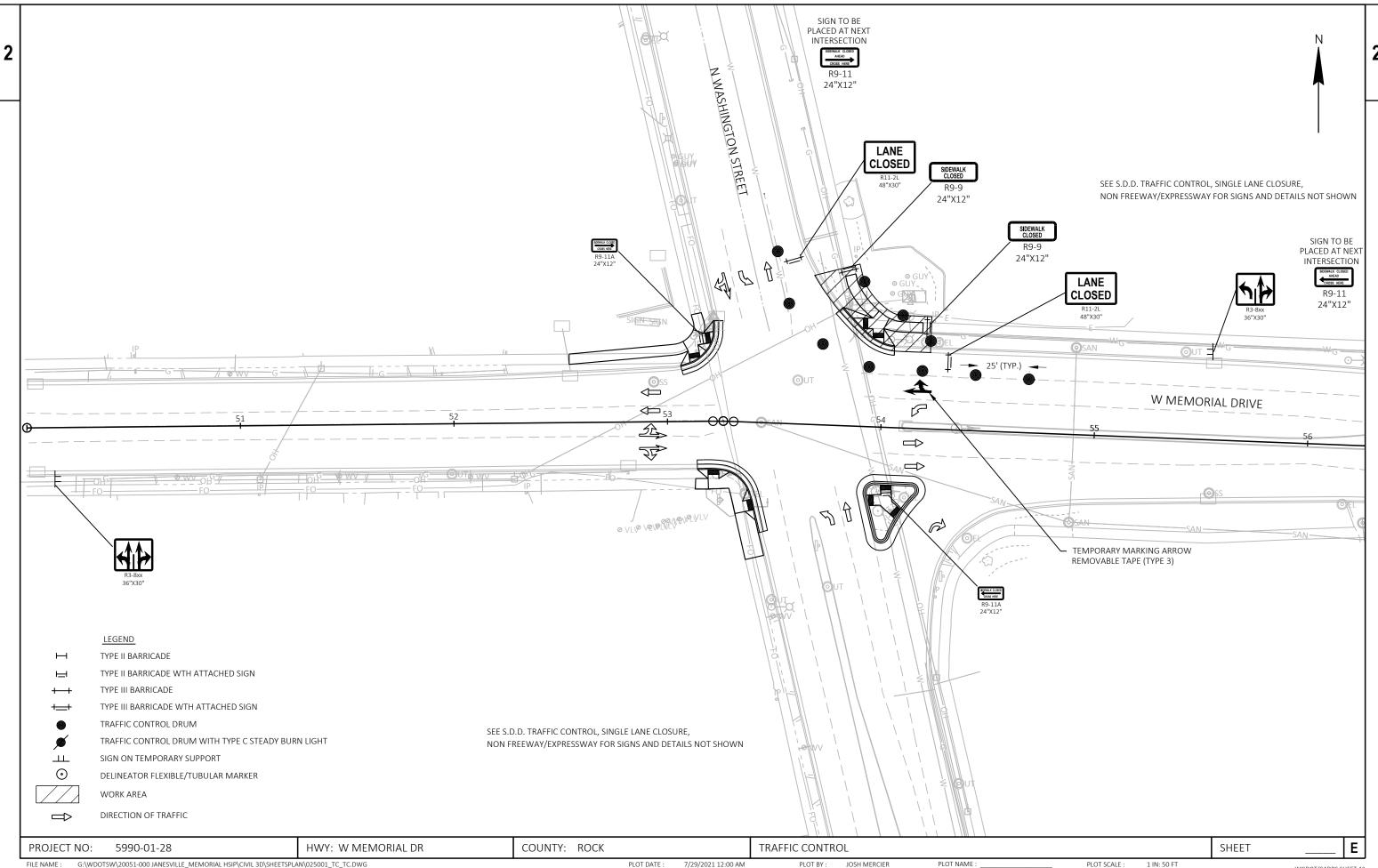
9/27/2021 10:10 AM

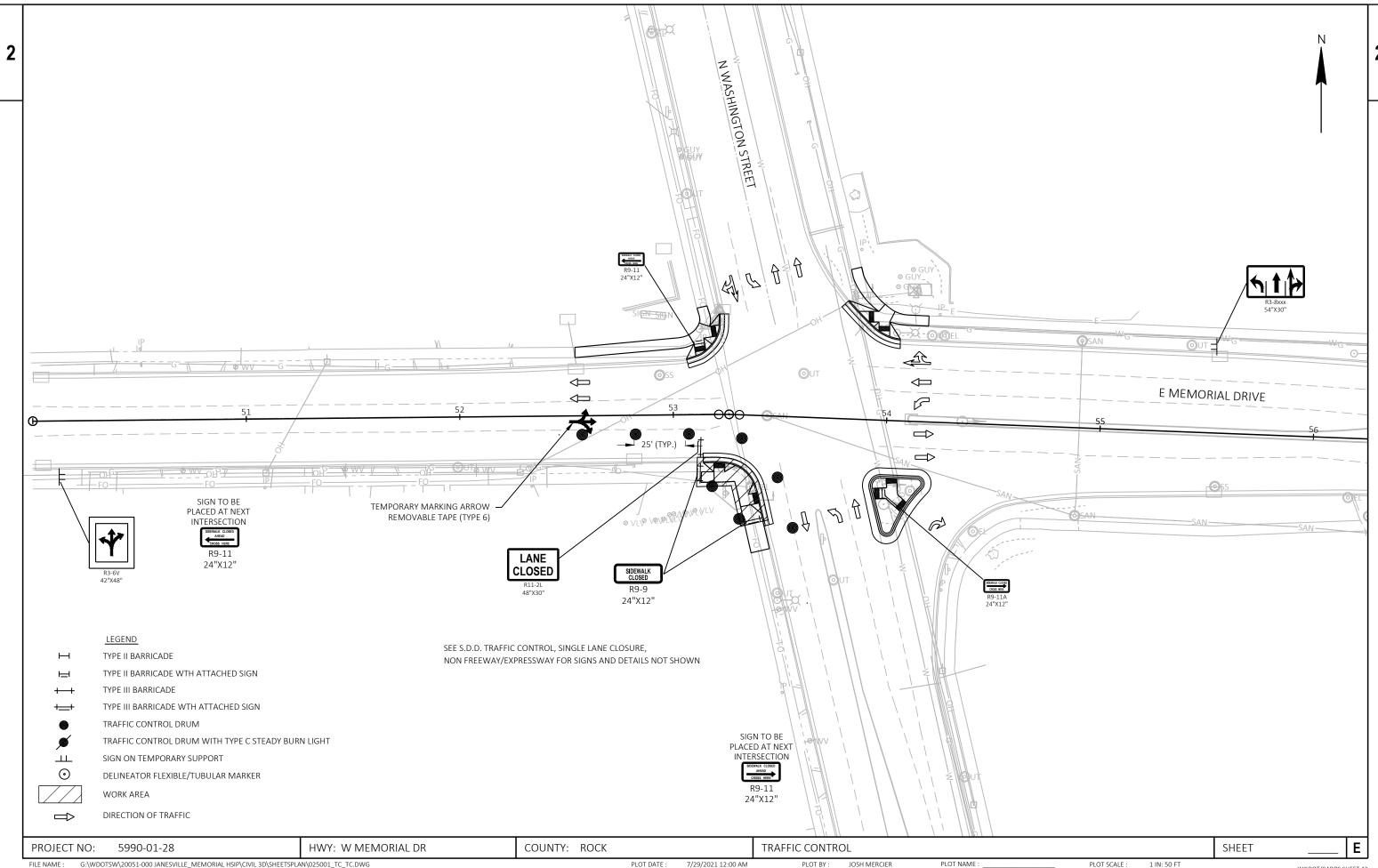
PLOT BY:

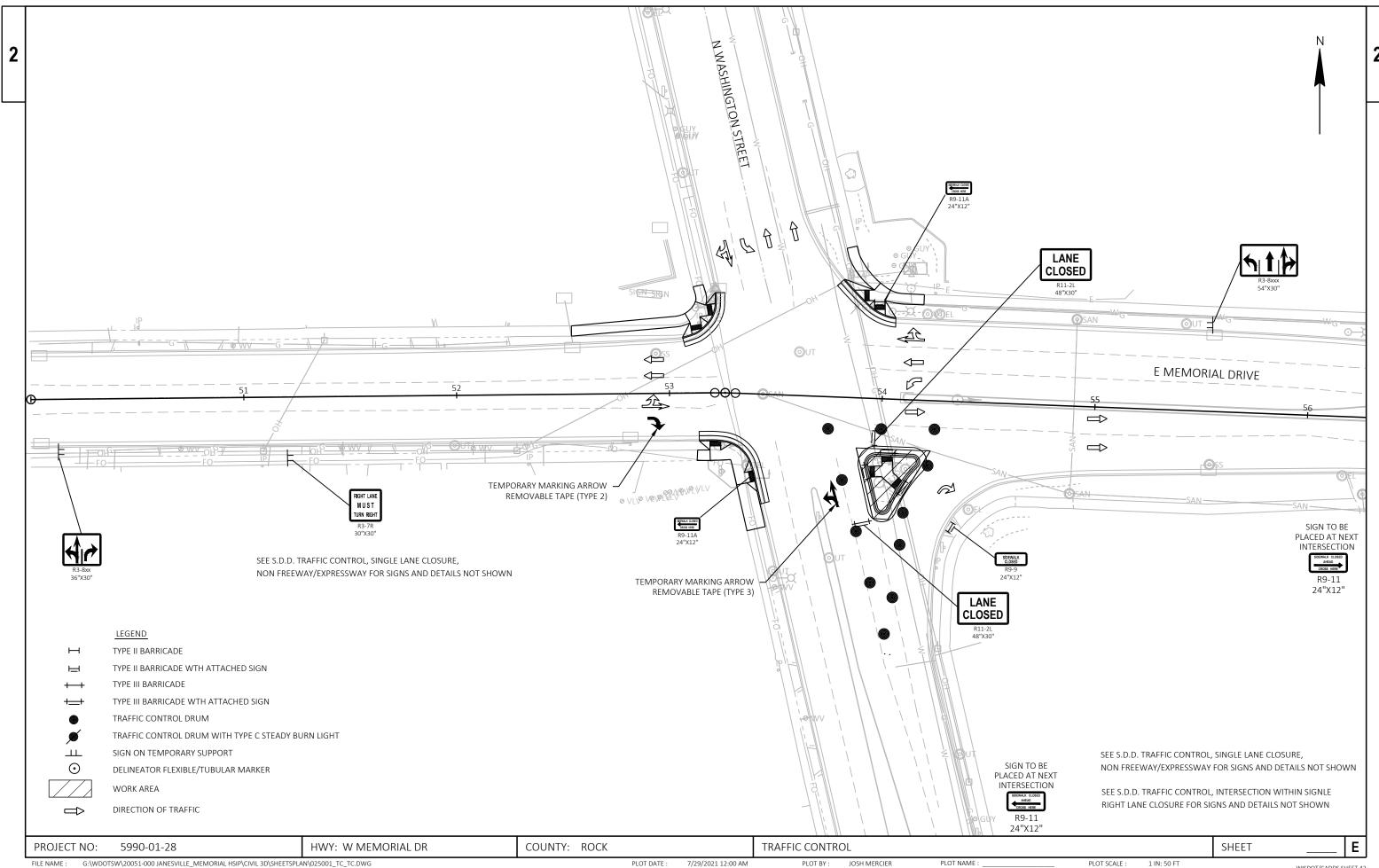
PLOT NAME:

PLOT SCALE :

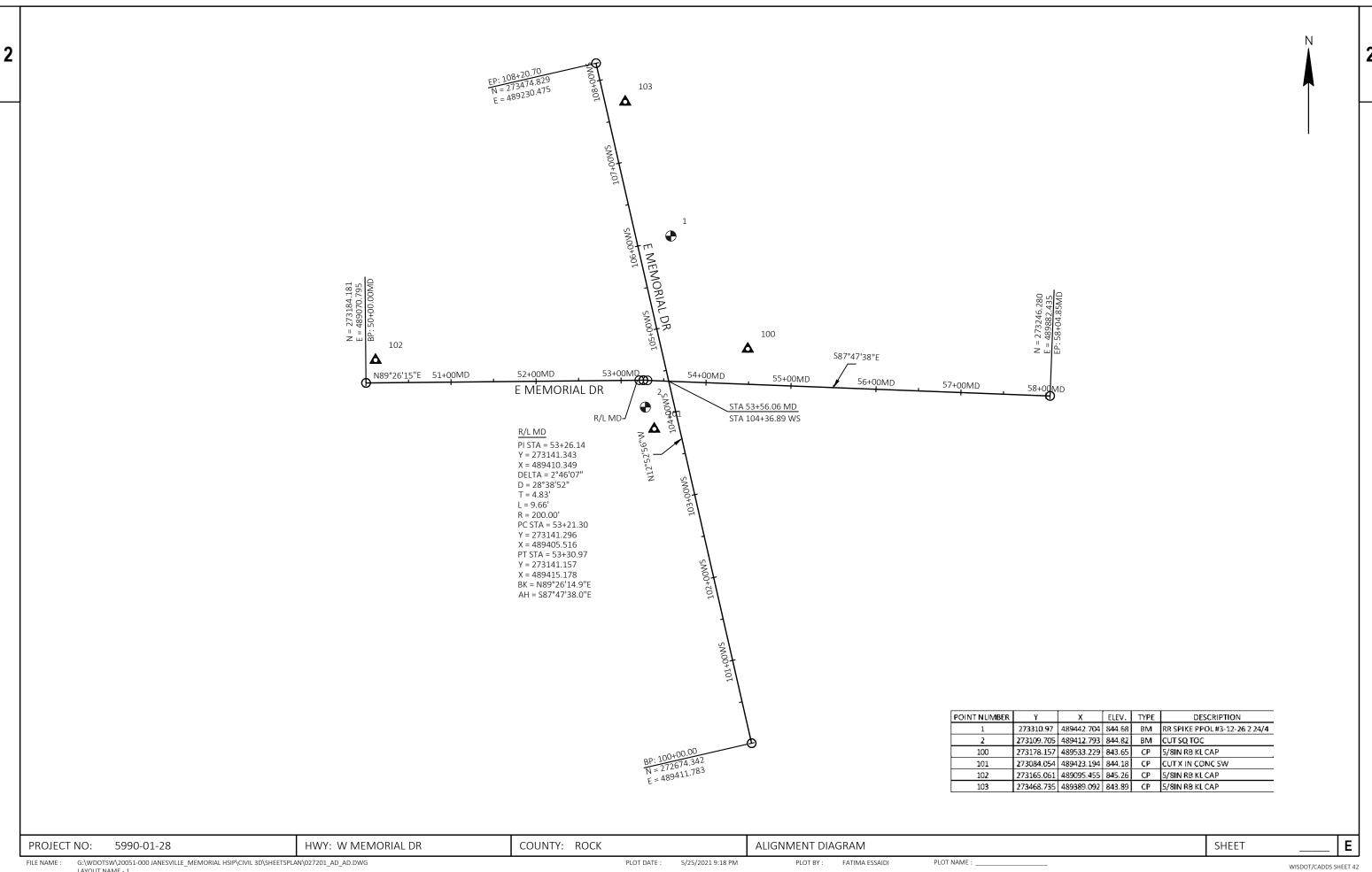








WISDOT/CADDS SHEET 42



LAYOUT NAME - 1

3

5990-01-28

					5990-01-28	
Line	Item	Item Description	Unit	Total	Qty	
0002	204.0150	Removing Curb & Gutter	LF	194.000	194.000	
0004	204.0155	Removing Concrete Sidewalk	SY	126.000	126.000	
0006	204.0195	Removing Concrete Bases	EACH	12.000	12.000	
8000	205.0100	Excavation Common	CY	50.000	50.000	
0010	213.0100	Finishing Roadway (project) 01. 5990-01-28	EACH	1.000	1.000	
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	73.000	73.000	
0016	405.0100	Coloring Concrete WisDOT Red	CY	11.000	11.000	
0018	465.0105	Asphaltic Surface	TON	13.000	13.000	
0020	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	194.000	194.000	
0022	602.0405	Concrete Sidewalk 4-Inch	SF	755.000	755.000	
0024	602.0415	Concrete Sidewalk 6-Inch	SF	549.000	549.000	
0028	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	90.000	90.000	
0032	619.1000	Mobilization	EACH	0.700	0.700	
0034	624.0100	Water	MGAL	1.000	1.000	
0036	625.0500	Salvaged Topsoil	SY	74.000	74.000	
0038	627.0200	Mulching	SY	74.000	74.000	
0040	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0042	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0044	628.2008	Erosion Mat Urban Class I Type B	SY	74.000	74.000	
0046	628.7015	Inlet Protection Type C	EACH	2.000	2.000	
0048	629.0205	Fertilizer Type A	CWT	0.050	0.050	
0050	630.0140	Seeding Mixture No. 40	LB	1.200	1.200	
0052	637.2210	Signs Type II Reflective H	SF	10.000	10.000	
0054	637.2215	Signs Type II Reflective H Folding	SF	15.540	15.540	
0056	637.2230	Signs Type II Reflective F	SF	12.500	12.500	
0058	638.2602	Removing Signs Type II	EACH	8.000	8.000	
0060	642.5001	Field Office Type B	EACH	0.700	0.700	
0062	643.0300	Traffic Control Drums	DAY	1,100.000	1,100.000	
0064	643.0410	Traffic Control Barricades Type II	DAY	220.000	220.000	
0066	643.0420	Traffic Control Barricades Type III	DAY	243.000	243.000	
0068	643.0705	Traffic Control Warning Lights Type A	DAY	188.000	188.000	
0070	643.0715	Traffic Control Warning Lights Type C	DAY	275.000	275.000	
0072	643.0900	Traffic Control Signs	DAY	935.000	935.000	
0074	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000	
0076	643.5000	Traffic Control	EACH	0.700	0.700	
0800	646.3020	Marking Line Epoxy 8-Inch	LF	463.000	463.000	
0082	646.5020	Marking Arrow Epoxy	EACH	12.000	12.000	
0084	646.5120	Marking Word Epoxy	EACH	2.000	2.000	
0086	646.6120	Marking Stop Line Epoxy 18-Inch	LF	114.000	114.000	
0088	646.7405	Marking Crosswalk Paint Transverse Line 6-Inch	LF	455.000	455.000	
0090	646.8120	Marking Curb Epoxy	LF	180.000	180.000	
0092	646.8220	Marking Island Nose Epoxy	EACH	1.000	1.000	
0094	646.9110	Marking Removal Line Water Blasting 8-Inch	LF	463.000	463.000	
0096	646.9310	Marking Removal Special Marking Water Blasting	EACH	18.000	18.000	
0098	649.0550	Temporary Marking Arrow Removable Tape	EACH	5.000	5.000	
0100	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	715.000	715.000	
0102	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	540.000	540.000	
0104	652.0605	Conduit Special 2-Inch	LF	270.000	270.000	
0106	652.0615	Conduit Special 3-Inch	LF	655.000	655.000	
3.30	332.3310			555.500	300.000	

FOO	$^{\circ}$	1 00
5990	1-()	I-/A

					5990-01-28	
Line	Item	Item Description	Unit	Total	Qty	
108	652.0800	Conduit Loop Detector	LF	1,736.000	1,736.000	
10	652.0900	Loop Detector Slots	LF	1,503.000	1,503.000	
2	653.0154	Pull Boxes Non-Conductive 24x36-Inch	EACH	9.000	9.000	
14	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	9.000	9.000	
6	653.0905	Removing Pull Boxes	EACH	10.000	10.000	
18	654.0101	Concrete Bases Type 1	EACH	9.000	9.000	
22	654.0105	Concrete Bases Type 5	EACH	2.000	2.000	
24	654.0110	Concrete Bases Type 10	EACH	1.000	1.000	
26	654.0120	Concrete Bases Type 10-Special	EACH	3.000	3.000	
28	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	1.000	1.000	
30	655.0230	Cable Traffic Signal 5-14 AWG	LF	891.000	891.000	
32	655.0260	Cable Traffic Signal 12-14 AWG	LF	1,836.000	1,836.000	
34	655.0270	Cable Traffic Signal 15-14 AWG	LF	808.000	808.000	
6	655.0305	Cable Type UF 2-12 AWG Grounded	LF	1,216.000	1,216.000	
8	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	1,565.000	1,565.000	
0	655.0610	Electrical Wire Lighting 12 AWG	LF	585.000	585.000	
2	655.0700	Loop Detector Lead In Cable	LF	5,231.000	5,231.000	
4	655.0800	Loop Detector Wire	LF	5,784.000	5,784.000	
6	655.0900	Traffic Signal EVP Detector Cable	LF	848.000	848.000	
18	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. W Memorial Dr & N Washington St	LS	1.000	1.000	
2	657.0100	Pedestal Bases	EACH	9.000	9.000	
4	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	2.000	2.000	
0	657.0322	Poles Type 5-Aluminum	EACH	2.000	2.000	
2	657.0347	Poles Type 9-Special	EACH	2.000	2.000	
4	657.0350	Poles Type 10	EACH	1.000	1.000	
66	657.0352	Poles Type 10-Special	EACH	1.000	1.000	
2	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	6.000	6.000	
'4	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	3.000	3.000	
6	657.0525	Monotube Arms 25-FT	EACH	1.000	1.000	
8	657.0536	Monotube Arms 35-FT-Special	EACH	1.000	1.000	
0	657.0541	Monotube Arms 40-FT-Special	EACH	1.000	1.000	
2	657.0546	Monotube Arms 45-FT-Special	EACH	1.000	1.000	
2	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	2.000	2.000	
4	657.0806	Luminaire Arms Steel 6-FT	EACH	2.000	2.000	
96	658.0173	Traffic Signal Face 3S 12-Inch	EACH	10.000	10.000	
8	658.0174	Traffic Signal Face 4S 12-Inch	EACH	10.000	10.000	
00	658.0416	Pedestrian Signal Face 16-Inch	EACH	10.000	10.000	
)2	658.5069	Signal Mounting Hardware (location) 01. W Memorial Dr & N Washington St	LS	1.000	1.000	
6	659.1115	Luminaires Utility LED A	EACH	4.000	4.000	
8	661.0200	Temporary Traffic Signals for Intersections (location) 01. W Memorial Dr & N Washington St	LS	1.000	1.000	
)	690.0150	Sawing Asphalt	LF	245.000	245.000	
2	690.0250	Sawing Concrete	LF	30.000	30.000	
4	SPV.0060	Special 01. LED Blank Out Sign	EACH	1.000	1.000	
6	SPV.0060	Special 02. Traffic Signal Cabinet & Controller (W Memorial Dr & N Washington St)	EACH	1.000	1.000	
3	SPV.0060	Special 03. Salvage Traffic Signals (W Memorial Dr & N Washington St)	EACH	1.000	1.000	
0	SPV.0060	Special 04. Furnish & Install EVP System (W Memorial Dr & N Washington St)	EACH	1.000	1.000	
2	SPV.0060	Special 05. Furnish & Install APS Push Button System (W Memorial Dr & N Washingtor		1.000	1.000	
		St)				

10/04/2021 12:51:57

<b>Estimate Of</b>	Quantities	By Plan Sets
--------------------	------------	--------------

Page 3

5990-01	-28
---------	-----

Line	Item	Item Description	Unit	Total	Qty
	SPV.0060	Special 10. Construction Staking Project 5990-01-28	EACH	1.000	
0236	SPV.0090	Special 01. Marking Crosswalk Epoxy Ladder Style 12-Inch	LF	414.000	414.000

		HMA PAVEMENT ITEMS 465.0105
REMOVING CONCRETE SIDEWALK   204.0155   REMOVING   CONCRETE   SIDEWALK   LOCATION (SY)     NW QUADRANT   46   NE QUADRANT   35   SW QUADRANT   33   ISLAND   12     PROJECT TOTAL   126	305.0120   624.0100     BASE     AGGREGATE     DENSE     1 1/4-INCH   WATER     LOCATION   (TON)   (MGAL)     NW QUADRANT   17   0.24     NE QUADRANT   14   0.20     SW QUADRANT   17   0.24     SW QUADRANT   17   0.24     SILAND   25   0.32     PROJECT TOTAL   73   1.00	ASPHALTIC SURFACE LOCATION (TON)  NW QUADRANT 2 NE QUADRANT 2 SW QUADRANT 3 ISLAND 6  PROJECT TOTAL 13
CONCRETE CURB & GUTTER  601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LOCATION (LF)  NW QUADRANT 30 NE QUADRANT 31 SW QUADRANT 49 ISLAND 84  PROJECT TOTAL 194	CONCRETE SIDEWALK	SAWING CONCRETE AND ASPHALT

3

**LANDSCAPING** 

625.0500 627.0200 628.2008 629.0205 630.0140

		SALVAGED TOPSOIL	MULCHING	EROSION MAT URBAN CLASS I TYPE B	FERTILIZER TYPE A	SEEDING MIXTURE NO. 40
	LOCATION	(SY)	(SY)	(SY)	(CWT)	(LB)
	NW QUADRANT NE QUADRANT SW QUADRANT	33 30 11	33 30 11	33 30 11	0.02 0.02 0.01	0.50 0.50 0.20
_	PRO IECT TOTAL	74	74	74	0.05	1 20

# PERMANENT SIGNING TYPE II

		SIGN	637.2210	637.2215 SIGNS TYPE II	637.2230	638.2602 REMOVING	
		SIZE	SIGNS TYPE II	REFLECTIVE H	SIGNS TYPE II	SIGNS	
SIGN	SIGN	WXH	REFLECTIVE H	FOLDING	REFLECTIVE F	TYPE II	DELLA DICO
#	CODE	IN	SF	SF	SF	EACH	REMARKS
1-01	R4-7	24X30	5.00				KEEP RIGHT
1-02	R1-1F	30X30		5.18			STOP SIGN (FOLDING)
1-03	R4-7	24X30	5.00				KEEP RIGHT
1-04	R1-1F	30X30		5.18			STOP SIGN (FOLDING)
1-05	W11-2	30X30			6.25		PEDESTRIAN CROSSING SYMBOL
1-06	R1-1F	30X30		5.18			STOP SIGN (FOLDING)
1-07	W11-2	30X30			6.25		PEDESTRIAN CROSSING SYMBOL
1R-01	R4-7					1	REPLACE ON EXISTING POST
1R-02	R1-1F					1	STOP SIGN (FOLDING)
1R-03	R4-7					1	KEEP RIGHT
1R-04	R1-1F					1	STOP SIGN (FOLDING)
1R-05	W11-2					1	PEDESTRIAN CROSSING SYMBOL
1R-06	CUST					1	WALK ON OPPOSITE SIDE
1R-07	R1-1F					1	STOP SIGN (FOLDING)
1R-08	W11-2					1	PEDESTRIAN CROSSING SYMBOL
			10.00	15.54	12.50	8	

# INLET PROTECTION

628.7015 INLET PROTECTION TYPE C STA OFFSET (EACH) 52+54.60 20' RT 52+81.22 22' LT PROJECT TOTAL 2

628.1910 628.1905 MOBILIZATION MOBILIZATION EMERGENCY **EROSION EROSION** CONTROL CONTROL LOCATION (EA) NW QUADRANT NE QUADRANT SW QUADRANT PROJECT TOTAL

**EROSION CONTROL** 

## PAVEMENT MARKING

	646.3020	646.9310	646.5020	646.5120	646.7405	646.6120	646.8120	646.9110	646.8220	SPV.0090.01
LOCATION	MARKING LINE EPOXY 8-INCH WHITE (LF)	MARKING REMOVAL SPECIAL MARKING WATER BLASTING (EA)	MARKING ARROW EPOXY (EA)	MARKING WORD EPOXY (EA)	MARKING CROSSWALK PAINT TRANSVERSE LINE 6-INCH (LF)	MARKING STOP LINE EPOXY 18-INCH (LF)	MARKING CURB EPOXY (LF)	MARKING REMOVAL LINE WATER BLASTING 8-INCH (EA)	MARKING ISLAND NOSE EPOXY (EA)	MARKING CROSSWALK EPOXY LADDER STYLE 12-INCH (LF)
54+10 TO 55+74	166	-	-	-	-	-	-	166	_	-
103+04 TO 103+88	84	-	-	-	-	-	-	84	-	-
104+91 TO 106+13	123	-	-	-	-	-	-	123	-	-
NW QUADRANT	-	3	4	-	205	20	30	-	-	102
NE QUADRANT	-	11	6	1	-	30	33	-	-	108
SE QUADRANT	90	4	2	1	250	44	-	90	-	84
SW QUADRANT	-	-	-	-	-	20	37	-	-	78
ISLAND	-	-	-	-	-	-	80	-	1	42
 PROJECT TOTAL	463	18	12	2	455	114	180	463	1	414

### TRAFFIC CONTROL

643.0300 643.0420 643.0410 643.0900 643.1050 643.0705 643.0715 649.0550

			BARRICADES	BARRICADES	TRAFFIC CONTROL	SIGNS	TRAFFIC CONTROL WARNING LIGHTS	TRAFFIC CONTROL WARNING LIGHTS	TEMPORAR MARKING ARROW REMOVABL
		DRUMS	TYPE III	TYPE II	SIGNS	PCMS	TYPE A	TYPE C	TAPE
	# OF DAYS	(DAYS)	(DAYS)	(DAYS)	(DAYS)	(DAYS)	(DAYS)	(DAYS)	(EA)
PRE-CONSTRUCTION	7	_	_	-	-	14	-	-	-
STAGE 1	13	260	65	52	221	-	52	65	1
STAGE 2	11	220	55	44	187	-	44	55	1
STAGE 3	15	300	75	60	255	-	60	75	1
STAGE 4	16	320	48	64	272	-	32	80	2
PROJECT TOTAL		1,100	243	220	935	14	188	275	5

PROJECT NO: 5990-01-28

HWY: MEMORIAL DRIVE

COUNTY: ROCK

MISCELLANEOUS QUANTITIES

SHEET

FILE NAME: G:\WDOTSW\WSW10-11024\PS&E\Draft PS&E\Sheets

ORIGINATOR: KL ENGINEERING, INC.

ORIG. DATE:

PRINT DATE: July 30, 2021

TRAFFIC SIGNAL SELLOW AS   50,000   1						TRAFFIC	C SIGNAL PUL	L BOXES				TRA	AFFIC SIGNAL COND	<u>UIT</u>		
Part								653.0154	653.0164				CONDUIT RIGID NO	ONMETALLIC	CO	652.06 <sup>.</sup> NDUIT ECIAL
COCATION   PART   PAR													2-INCH	3-INCH	2-INCH	3-INCI
	TRAFFIC S	SIGNAL REMOVALS									LOCATION FF	ROM - TO	LF	LF	LF	LF
SELONNIC   SELONNIC		204.0105	653 0005			STATION	OFFSET L/R				WMEMORIAL DR &	NI WASHINGTON ST	Т			
CONCRITE   FULL   CONCRITE					DOX NOWBER	STATION	OITSET LIN	LACIT	LACIT	<del></del>				110		
MATERIAL   MATERIAL				l wm	EMORIAL DR & N	WASHINGTON ST								-		
## MEMORIAL DR & WASHINGTONS									1				230			-
MATH MORPHLER A I WASHINGTON ST	OCATION / ITEM NUMB!	BER EACH	EACH					1					30			-
CB1								1		.					-	80
P01		IINGTON ST							1					-		- 440
PRESCRIPTION TOTAL   PRESCRI		1							1						-	110 40
PBS		_	1					1	_				<b></b>	<del></del>	_	190
PB4		 	1					<u>'</u>	1							
PRIS			1						1	'				-		
PB6			1						1						_	_
P87			1						-							
PBS	PB7		1			51+33'WMDR'	25.4' R		_						-	_
PB10		-	1						1							
SE1			1						1				25			-
SB2		<del></del>	1					1	-					20	-	
SB3		1	_					1							-	-
SB4		1	<del></del>					1								-
S85		1			PB18	105+05'NWST'	34.8' R	-	1							
LB1		<u> </u> 1		INITE	EDSECTION TOTA	Λ1		Δ						-		 110
S86		1	 	IIN IE	ERSECTION TOTA	<b>1</b> L		3	ð							
SB7		1				TDAE	FIG CIONAL O	NOWET								_
SB8		1				IRAFI	FIC SIGNAL CA	ABINE I								
S89 1		1	-							'			15		-	_
TRAFFIC SIGNAL TRAFFIC SIGNAL   PB16   -   -   110   PB16   -   -   110   PB16   -   -   110   PB16   -   -   110   PB16   -   -   -   110   PB16   -   -   -   110   PB16   -   -   -   -   -     -     -     -     -		1											10			_
## SECTION TOTAL    12	SB9	1						SPV.006	0.02					-		125
CABINET & CONTROLLER    P816   P817   P818   P818															110	-
COCATION   FACH   PB18   SB12	RSECTION TOTAL	12	10					CABINET & CO	NTROLLER							
PB18 - SB13   35   -							(W M			)						_
WMEMORIAL DR & N WASHINGTON ST   1   PB18 - CB1   115       NTERSECTION TOTAL   1   NTERSECTION TOTAL   715   540   270     NTERSECTION TOTAL   1   NTERSECTION TOTAL   715   540   270     NTERSECTION TOTAL   715   270     NTERSE				_	LO	CATION		EACH	1					20	_	_
INTERSECTION TOTAL   1   INTERSECTION TOTAL   715   540   270				,	W MEMORIAL DR	& N WASHINGTON	NST	1						115	_	_
				_				1		_	INTERSECTION TO	TAL	715	540	270	655
654.0110   654.0120   657.0347   657.0350   657.0352   657.0525   657.0536   657.0541   657.0546   657.0806   659.1115*   LUMINAIRE S   LUMI							TRAFFIC S	IGNAL STRUCTU	RES							
CONCRETE BASES   POLES   MONOTUBE ARMS   LUMINAIRE ARMS   UTILITY							TRAFFIC 3	IGNAL STRUCTU	<u>NES</u>							
LOCATION / BASE         TYPE 10         TYPE 10-SPECIAL         TYPE 9-SPECIAL         TYPE 10         TYPE 10-SPECIAL         25-FT         35-FT-SPECIAL         40-FT-SPECIAL         45-FT-SPECIAL         40-FT-SPECIAL         45-FT-SPECIAL <td></td> <td></td> <td></td> <td>654.0110</td> <td>654.0120</td> <td>657.0347</td> <td>657.0350</td> <td>657.0352</td> <td>657.0525</td> <td>657.0536</td> <td>657.0541</td> <td>657.0546</td> <td>657.0806</td> <td></td> <td></td> <td></td>				654.0110	654.0120	657.0347	657.0350	657.0352	657.0525	657.0536	657.0541	657.0546	657.0806			
NUMBER         STATION         OFFSET         L/R         EACH						_										
W MEMORIAL DR & N WASHINGTON ST  SB3 54+66'WMDR' 41.8' R 1 1 1 1 1 1 1 SB7 103+89'NWST' 31.3' L 1 1 1 1 1 1			OFFOFT : 7			TYPE 9-SPEC										
SB3 54+66'WMDR' 41.8' R 1 1 1 1 1 1 1 1 SB7 103+89'NWST' 31.3' L 1 1 1 1 1 1	NUI	JIVIBER STATION	OFFSET L/F	K EACH	EACH		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	-	
SB3 54+66'WMDR' 41.8' R 1 1 1 1 1 1 1 1 SB7 103+89'NWST' 31.3' L 1 1 1 1 1 1	\/\MEM	MORIAL DR & N WASHING	TON ST													
SB7 103+89'NWST' 31.3' L 1 1 1 1 1					1			1			1		1	1		
					1	1				1						
SB10 53+09'WMDR' 31.1' L 1 1 1 1 1 1 1				1			1		1				1	1		
SB12 104+98'NWST' 50.3' R 1 1 1 1 1	S	SB12 104+98'NWS	T' 50.3' R		1	1						1	-			
INTERSECTION TOTAL         1         3         2         1         1         1         1         1         1         1         1         2         2           *ADDITIONAL QUANTITIES SHOWN ELSEWHERE.			WN ELSEWHERE	•	3	2	1	1	1	1	1	1	2	2	-	
	NO. 5000 51 51		10464 3415 55	4001	ī	00141777								I	F.T.	
T NO: 5990-01-28 HWY: W MEMORIAL DR COUNTY: ROCK MISCELLANEOUS QUANTITIES SHEET  G:\WDOTSW\20051-000 JANESVILLE MEMORIAL HSIP\CIVIL 3D\SHEETSPLAN\030201-MQ,DWG PLOT DATE: 7/29/2021 3:36 PM PLOT BY: JARED BALTES PLOT NAME: PLOT SCALE: 1 IN:1 FT				MUKIAL DR		COUNTY: ROC								SHE	t I	

3

### TRAFFIC SIGNAL LOOP DETECTORS

							652.0900	652.0800	655.0800	655.0700*
							LOOP DETECTOR	CONDUIT		P DETECTOR
				SIZE	NO. OF		SLOTS	LOOP DETECTOR	WIRE	LEAD IN CABLE
LOCATION / LOOP NO.	STATION	OFFSET	L/R	FT X F	T TURNS	INSTALLATION METHOD	LF	LF	LF	LF
W MEMORIAL DR & N W	/ASHINGTON ST	Г								
11	103+63'NWST'	9.5'	R	6 X 2	3	SPECIAL LOOP DETECTOR DETAIL	79	100	306	180
12	103+91'NWST'	9.3'	R	6 X 2	3	SPECIAL LOOP DETECTOR DETAIL	75	92	282	180
21	106+74'NWST'	9.6'	L	6 X 6	4	SPECIAL LOOP DETECTOR DETAIL	37	44	182	270
22	105+16'NWST'	15.5'	L	6 X 2	) 4	SPECIAL LOOP DETECTOR DETAIL	61	64	262	110
23	104+88'NWST'	15.2'	L	6 X 2	) 4	SPECIAL LOOP DETECTOR DETAIL	61	64	262	110
31	56+62'WMDR'	21.1'	L	6 X 1	3 3	SPECIAL LOOP DETECTOR DETAIL	58	62	192	265
32	54+33'WMDR'	8.7'	L	6 X 2	3	SPECIAL LOOP DETECTOR DETAIL	82	106	324	50
33	54+33'WMDR'	19.0'	L	6 X 2	3	SPECIAL LOOP DETECTOR DETAIL	72	86	264	50
34	54+32'WMDR'	30.1'	L	6 X 2	3	SPECIAL LOOP DETECTOR DETAIL	62	66	204	50
35	54+5'WMDR'	8.7'	L	6 X 2	3	SPECIAL LOOP DETECTOR DETAIL	82	106	324	50
36	54+5'WMDR'	18.3'	L	6 X 2	3	SPECIAL LOOP DETECTOR DETAIL	72	86	264	50
37	54+4'WMDR'	29.5'	L	6 X 2	3	SPECIAL LOOP DETECTOR DETAIL	61	64	198	50
41	51+29'WMDR'	9.8'	R	6 X 1	3 4	SPECIAL LOOP DETECTOR DETAIL	56	58	238	370
42	52+85'WMDR'	5.3'	R	6 X 2	3	SPECIAL LOOP DETECTOR DETAIL	69	80	246	210
43	52+86'WMDR'	15.4'	R	6 X 2	3	SPECIAL LOOP DETECTOR DETAIL	60	62	192	210
44	53+13'WMDR'	5.0'	R	6 X 2	3	SPECIAL LOOP DETECTOR DETAIL	69	80	246	210
45	53+14'WMDR'	15.1'	R	6 X 2	3	SPECIAL LOOP DETECTOR DETAIL	60	62	192	210
51	105+16'NWST'	4.3'	L	6 X 2	3	SPECIAL LOOP DETECTOR DETAIL	71	84	258	110
52	104+88'NWST'	4.0'	L	6 X 2	3	SPECIAL LOOP DETECTOR DETAIL	72	86	264	110
61	102+03'NWST'	16.4'	R	6 X 6	4	SPECIAL LOOP DETECTOR DETAIL	46	62	254	300
62	103+63'NWST'	21.3'	R	6 X 2	) 4	SPECIAL LOOP DETECTOR DETAIL	69	80	326	180
63	103+91'NWST'	21.4'	R	6 X 2	) 4	SPECIAL LOOP DETECTOR DETAIL	62	66	270	180
64	103+69'NWST'	46.4'	R	6 X 2	3	SPECIAL LOOP DETECTOR DETAIL	67	76	234	180
INTERSECTION TOTAL							1503	1736	5784	3685

### TRAFFIC SIGNAL STRUCTURES

				654.0101	654.0105	657.0100	657.0255 TRANSFORMER BASES	657.0322	657.0430	657.0425 IAL STANDARDS	657.0610 LUMINAIRE ARMS	659.1115* LUMINAIRES
				CONCRETE	BASES	PEDESTAL	BREAKAWAY 11 1/2-INCH	POLES		MINUM	SINGLE MEMBER	UTILITY
LOCATION / BAS	E		-	TYPE 1	TYPE 5	BASES	BOLT CIRCLE	TYPE 5-ALUMINUM	10-FT	15-FT	4 1/2-INCH CLAMP 6-FT	LED A
NUMBER	STATION	OFFSET	L/R	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
W MEMORIAL DE	R & N WASHINGTO	ON ST										
SB1	54+01'WMDR'	44.6'	L	1		1				1		
SB2	54+46'WMDR'	0.8'	L	1		1				1		
SB4	103+54'NWST'	59.3'	R	1		1		_		1		
SB5	103+94'NWST'	41.5'	R	1		1		_	1			
SB6	103+88'NWST'	33.9'	R	1		1		_		1		
LB1	103+55'NWST'	26.3'	L		1	_	1	1		_	1	1
SB8	104+00'NWST'	27.5'	L	1		1	<del></del>	_	1			
SB9	53+17'WMDR'	26.0'	R	1		1	<b></b>	_		1		
SB11	104+88'NWST'	27.2'	L	1		1		_		1		
LB2	106+28'NWST'	24.2'	L		1		1	1			1	1
SB13	104+78'NWST'	47.5'	R	1		1	<b></b>		1	-		
INTERSECTION *ADDITIONAL QU		N ELSEWH	ERE.	9	2	9	2	2	3	6	2	2

FILE NAME : G:\WDOTSW\20051-000 JANESVILLE\_MEMORIAL HSIP\CIVIL 3D\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 02

PROJECT NO: 5990-01-28

MISCELLANEOUS QUANTITIES

SHEET PLOT SCALE : 1 IN:1 FT

WISDOT/CADDS SHEET 42

Ε

\*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

HWY: W MEMORIAL DR

COUNTY: ROCK

<u>IEMPORA</u>	ARY TRAFFIO	C SIGNALS									
		661	.0200.01				TRAFFIC SIGNA	L CABLE AND WIRE	E - ABOVE GROUND		
		TEMPORARY FOR INTE	TRAFFIC S ERSECTIO	NS				655.0230	655.0610	655.0700*	655.0900*
LOCATION	(W N	MEMORIAL DR	& N WASH LS	HINGTON ST)	-	LOCATION FROM SIGNAL BASE	- TO SIGNAL HEAD	SIGNAL 5-14 AWG	ELECTRICAL WIRE LIGHTING 12 AWG LF		DETECTOR CABI
W MEMORIAL DR & N WASHINGTON	ST		1					<del>-</del> '	<del>-</del>	<del>-</del>	<del>-</del>
					_	W MEMORIAL DR & N WASHINGTON S' SB1	Г - 14	22			_
 INTERSECTION TOTAL			1			-	- 17	19		<del></del>	<del>-</del>
SALVAC	GE TRAFFIC	SIGNALS					- 3A	15			-
		SP\	/.0060.03			SB2	- BUTTON - 3	 22		6 	
		SA	LVAGE				21	19			
	0.84.8		IC SIGNAL			SB3	- 15	61			-
LOCATION	(۷۷ ۱۸	MEMORIAL DR I	& N WASH EACH	IING ION SI)			- 16 - LUMINAIRE	45 	 117	<del></del>	<del></del> 
					-		- HEAD A			<del></del>	30
W MEMORIAL DR & N WASHINGTON	ST		1			SB4	- 2	22			-
INTERSECTION TOTAL			1		-		- 4D - BUTTON	15 	 	 6	 
	EIC CICNAL I	HEADS				SB5	- 4B	 15			
IRAF	FIC SIGNAL I	UEAD2					- BUTTON			6	<del>-</del>
			658.0174	658.0416		SB6	- 1 - 11	19 22	<del></del>	<del></del> 	<del></del>
		TRAFFIC SIGNA		PEDESTRIA			- 6A	15			_
SIGNAL	HEAD	3S 12-INCH	4S 12-INCH	SIGNAL FAC 16-INCH	)E		- 4C	15		-	_
LOCATION BASE NO.	NO.	EACH	EACH	EACH			- BUTTON - LUMINAIRE	<u></u>	 117	<u> </u>	<del></del>
NAMENODIAL DD 6 NINAGUINGTON G						SB7	- LOIVIINAIRE	 50		 	 
W MEMORIAL DR & N WASHINGTON ST SB1	Г 14	_	1				- 10	40			-
351	17	1		_			- 12 - LUMINAIRE	58 	 117	 	<del></del>
222	3A	-		1			- HEAD D	<del></del>		<del></del>	45
SB2 SB3	3 15	-	1 1	_		SB8	- 4A	15	<del></del>	<del></del>	-
	16	1		_		SB9	- BUTTON - 13	 19	<del></del>	6	
SB4	2	-	1	_		309	- 13 - 18	22	 	<del></del>	<del></del>
SB5	4D 4B	_		1 1			- 2B	15		<del></del>	
SB6	1	1			<u></u>	SB10	- BUTTON - 19	 50		6	<del></del>
	11	-	1			3010	- 20	38		<del></del>	<del></del>
	6A 4C			1 1			- 3B	15			
SB7	9	1		_			- LUMINAIRE - BUTTON	<del></del>	117 	 6	
	10	1		-			- BUTTON - HEAD B	<u></u>		6	 46
SB8	12 4A	-	1 	- 1		SB11	- 6	22			-
SB9	13	1		_			- 8 - 2A	19 15	<u></u>	<u></u>	<u></u>
	18	-	1				- BUTTON	-		6	
SB10	2B 19		1	1 		LB2	- LUMINAIRE	<del></del>	117		
3510	20	1	_	_		SB12	- 4 - 5	57 46		 	 
	3B	-	<del>-</del>	1			<u>- 5</u> - 7	69			<del></del>
SB11	6 8	 1	1				- HEAD C				62
	2A	<u> </u>		1		SB13	- 6B - BUTTON	15		 6	-
SB12	4	1		_			- BULLON	-		6	<del></del>
	5 7	1	 1	-		INTERSECTION TOTAL		891	585	54	183
SB13	7 6B	_	1 	1		*ADDITIONAL QUANTITIES SHOWN ELS	SEWHERE.				
				-							
INTERSECTION TOTAL		10	10	10							

									<del>,</del>		
	TRAFFIC SIGNAL EQUIPM	<u>/IENT</u>				EMERGENCY VEHI	CLE PREEMPTION		TRAFFIC SIGNAL CONTROL		
	SPV.0060.01 LED BLANK OUT SIGN				LOCATIO	DN.	SPV.00 FURNISH 8 EVP SY (W MEMORIAL DR & N	INSTALL 'STEM I WASHINGTON ST)	LOCATION	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL	
	LOCATION	EACH	1	—   <u> </u>	LOCATIO	<u> </u>	EAC	<u>л</u>	LOCATION	EACH	
W MEMORIAI	L DR & N WASHINGTON ST	1		W	MEMORIAL DR & N V	/ASHINGTON ST	1		W MEMORIAL DR & N WASHINGTON ST	1	
INTERSECTI	ON TOTAL	1		<u>IN.</u>	TERSECTION TOTAL	-	1		INTERSECTION TOTAL	1	
				,					ACCESSIBLE PED	DESTRIAN SIGNALS	
	LOCATION FROM T	655.0260 C TRAFF 12-14 AW	655.0270 ABLE IC SIGNAL G 15-14 AWG	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG	655.0700*  LOOP DETECTOR LEAD IN CABLE	655.0900* TRAFFIC SIGNAL EV DETECTOR CABLE		LOCATION	SPV.0060.05 FURNISH & INSTALL AUDIBLE PEDESTRIAN BUTTON SYSTEM (W MEMORIAL DR & N WASHINGTON ST) EACH	
	<u>LOCATION FROM - T</u>		<u>LF</u>	LF	LF	LF	LF	_	W MEMORIAL DR & N WASHINGTON ST	1	
	W MEMORIAL DR & N WASHINGTON CB1 - SI		118		118	88	<u></u>			<u>'</u>	
	CB1 - SI	B2 128				-			INTERSECTION TOTAL	1	
	CB1 - SI			220		 455	175				
	CB1 - SI CB1 - SI			<del></del>	<del></del>	155 200	<del></del>				
	CB1 - SI	B6	249			189		<del></del>			
	CB1 - SI					-	254		TRAFFIC SIGNAL MO	DUNTING HARDWARE	
	CB1 - SI CB1 - SI		 283	 		261 223					
	CB1 - SE					166	166				
	CB1 - SE		158			128				658.5069.01 SIGNAL MOUNTING	
	CB1 - SE CB1 - SE		<del></del> 	<del></del>	 97	- 82	70			HARDWARE	
	SB1 - SI				140	-	<del>-</del>			(W MEMORIAL DR & N WASHINGTON ST)	
	SB2 - SI	B3			134				LOCATION	LS	
	SB3 - SI SB4 - SI	D.E.			67 107	-	-		W MEMORIAL DR & N WASHINGTON ST	1	
	SB5 - SI			 	107 46	<del>-</del>	<del></del>		W MEMORIALE BICART WAS INVOICED	'	
	SB6 - SI	B7			211	_			INTERSECTION TOTAL	1	
	SB7 - SI		-		65	_	-				
	SB8 - SI SB9 - SE	B9	<del></del>		148 116	_	<del>-</del>				
	SB10 - SE			 	108	-	 				
	SB11 - SE	312			134	_	-		TRAFFIC SIG	NAL CABINET	
	SB12 - SE		-		74			_			
	SB3 - LI LB1 - SI			187 62		_	<del>-</del>				
	SB7 - SE		<u>-</u>	202		_	<del></del>			656.0200.01	
	SB10 - LI	32		248		_				ELECTRICAL SERVICE	
	CB1 - LI	32	-	297		-	-			METER BREAKER PEDESTAL	
	INTERSECTION TOTAL	1026	800	1216	1565	1492	665	_	LOCATION	(W MEMORIAL DR & N WASHINGTON ST) LS	
	INTERSECTION TOTAL 1836 808 12' *ADDITIONAL QUANTITIES SHOWN ELSEWHERE.					1432	003		W MEMORIAL DR & N WASHINGTON ST	1	
										<u>'</u>	
									INTERSECTION TOTAL	1	
PROJECT NO:	5990-01-28	HWY: W M	EMORIAL DR		COUNTY: ROC	 K	MISCELL	ANEOUS QUANTITIES		SHEET	
		1	= = 11		1,			,=			

R/W PARCEL NO.

2176493

PROJECT NUMBER: 5990-01-27 - 4.01 AMENDMENT NO:

RESERVED FOR REGISTER OF DEFDS

TO ETITE! THIS CHANGE, PURSUANT TO A OTHER THE GRANTED GROUND SUBJECTION SEELS, THE STATE OF THE STATE THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF JANESVILLE FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF JANESVILLE, PURSUANT TO THE PROVISIONS OF SUBSECTION 62.22, WISCONSIN STATUTES. **EASEMENT TABLE** 

RECORDING INFORMATION

PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY OF JANESVILLE.

INTEREST R/W S.F. REQUIRED OWNER/S REQUIRED NEW EXISTING TOTAL P & S REAL ESTATE INVESTMENTS, LLC TLE

OWNER

TRANSPORTATION PROJECT PLAT NO: 5990-01-27 - 4.01

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 62.22, WISCONSIN STATUTES, THE CITY OF JANESVILLE

SECTION 26, T3N, R12E, CITY OF JANESVILLE, ROCK COUNTY, WISCONSIN.

PISTA = 53+26.14

DELTA = 2°46'07" RT

Y = 273141.343

X = 489410.349

D = 28°38'52"

THAT PART OF LOT 17, BLOCK 4, PINES ADDITION TO THE CITY OF JANESVILLE, LOCATED IN GOVERNMENT LOT 3,

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, INTERESTS OR KIGHTS IN LANDS AND INTERESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR KIGHTS IN LANDS FOR HILL ABOVE-NAMED PROJECT.

RELOCATION ORDER: CITY OF JANESVILLE, W MEMORIAL DRIVE, N WASHINGTON STREET INTERSECTION, ROCK COUNTY,

HIGHWAY	BASIS OF EXISTING R/W
W. MEMORIAL DRIVE	ASHLAND SUB., PINES ADD., POS M16949, M08503, S15399,
N. WASHINGTON STREET	ASHLAND SUB., PINES ADD., POS M16949, M08503, S07966, S15399

TIMOTHY M. HELD, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84,095 OF THE WISCONSIN STATUTES AND LINDER THE DIRECTION OF THE CITY OF JAMESVILLE, I HAVE SURVEYED AND

MONUMENT MON TRANSPORTATION PROJECT PLAT T = 4.83100 AT&T WISCONSIN SIXTEENTH CORNER MONUMEN NATIONAL GEODETIC SURVEY UNITED STATES HIGHWAY NO EASEMENT OF RECORD FOUND BUILDING (TO BE REMOVED) USH NUMBER VOLUME R = 200.00'BRIDGE PARALLEL OFFSETS PC STA = 53+21.30 OWNER'S NAMES ARE SHOWN FOR REFERENCE PT STA = 53+30.97 **SCHEDULE OF LANDS &** CONVENTIONAL UTILITY SYMBOLS INTERESTS REQUIRED PARCEI OVERHEAD TRANS NUMBER GOV'T. LOT 2 ASHLAND SUBDIVISION CABLE TELEVISION POS \$15399 SEC. 26 SANITARY SEWER STORM SEWER LOT 1 POS M08503 TELEPHONE POLE
TELEPHONE PEDESTAL SIDEWALK EASEMENT **CURVE DATA ABBREVIATIONS** DOC. 1210206 NOTES: LONG CHORD BEARING POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), ROCK DEGREE OF CURVE COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID A /DELTA LENGTH OF CURVE DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. SIDEWALK EASEMENT TANGENT DIRECTION AHEAD DOC. 2132967 DIRECTION BACK ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE 53+00 QUARTER LINE 52+00 N89°26'15"E TLF Station & Offset Table S87"47'38"E 55+00 RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO Point No. Station Offset THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD. STA 52+00.00 T150 53+29.83 32.65' W. MEMORIAL DRIVE [100] DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES. T151 53+35.99 54.66' OF T152 53+31.17 55.98' A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE T150 T153 RIGHT TO OPERATE NECESSARY EQUIPMENT THERON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR 53+25.14 37.78 -FO-SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THERON ANY VEGETATION T154 53+07.69 37.81 THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE T155 53+07.69 32.81 CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN. T153 T154 PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC TLE - GRADING T152 RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY 198 S.F LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY. LOT 17 FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE CITY OF JANESVILLE. PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION POS M16949 LOT 14 LOT 15 LOT 16 LOT 18 LOCATION SKETCH GOV'T. LOT 3 **Engineering** SEC. 26 LOT 19 83' PROJECT PINES ADDITION N89°06'37"E 1219.96' LOT 20 MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY **JANESVILLE** W. MEMORIAL DRIVE SEC COR TO TRAV PT REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LA S89°06'37"W 1438.18' SEC. COR. TO TRAV PT PRINT NAME: TIMOTHY M. HELD UTILITY INTERESTS REQUIRED LOCATED BY TIES 26 26 25 REGISTRATION NUMBER: S 2591 SURVEY NAIL FOUND Y = 270496.580 TIMOTHY 35 35 36 Y = 270537.850HIS PLAT AND RELOCATION ORDER ARE APPROVED X = 488105.156 UTILITY INTEREST X = 490762.977UTILITY OWNER(S) FOR THE CITY OF JANESVILLE. NUMBER N89°06'37"E 2658.14' AT&T WISCONSIN 100 SEC, COR. TO SEC, COR RELEASE OF RIGHTS PRINT NAME: PAUL WOODARD G:\WDOTSW\20051-000 JANESVILLE\_MEMORIAL HSIP\CIVIL 3D\SHEETSPLAN\040101-RP.DWG PLOT DATE : 12/21/2020 8:50 AM TIMOTHY HELD PLOT NAME PLOT SCALE :

SCALE, FEET

CONVENTIONAL ABBREVIATIONS

ALUM

ET AL

CONC

COR

POINT OF TANGENC

PROPERTY LINE

RECORDED AS

REEL / IMAGE

REFERENCE LINE

RIGHT OF WAY

SEPTIC VENT

SOLIARE FEET

STATION

SECTION

POINT OF BEGINNING

POINT OF CURVATURE

POINT OF INTERSECTION

STATE TRUNK HIGHWAY

TELEPHONE PEDESTAL

TEMPORARY LIMITED EASEMENT

PERMANENT LIMITED FASEMENT

POINT OF COMPOUND CURVE

RESTRICTIVE DEVELOPMENT FASEMENT

CONVENTIONAL SYMBOLS

SECTION

NOTATION FOR

NOTATION FOR

HIGH VOLTAGE

ACCESS RESTRICTED

NO ACCESS (NEW HIGHWAY

ACCESS CONTROLLED BY ACQUISITION

NO ACCESS (BY STATUTORY ALITHORITY)

(BY PREVIOUS PROJECT OR CONTROL)

NATIONAL GEODETIC SURVEY MONUMENT

P.L.

UTILITY NUMBER

R/W MONUMENT

R/W POINT

VALVE (GAS.

WATER ETC )

OFF-PREMISE

NON-MONUMENTED o

динин

\*\*\*\*

۵

FOUND IRON PIN (1-INCH UNLESS NOTED)

AHEAD

BLOCK

AND OTHERS

CENTERLINE

CONCRETE

DISTANCE

EASEMENT

GAS VALVE

GRID NORTH

IDENTIFICATION

CORNER

CERTIFIED SURVEY MAP

COUNTY TRUNK HIGHWAY

DOCUMENT NUMBER

HIGHWAY EASEMENT

SECTION LINE QUARTER LINE

SIXTEENTH LINE

NEW R/W LINE

EXISTING R/W LIN

PROPERTY LINE

SLOPE INTERCEPT

CORPORATE LIMITS

UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC.)

TEMP. LIMITED EASEMENT AREA

EASEMENT AREA (HIGHWAY

PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)

TRANSMISSION STRUCTURES

BUILDING

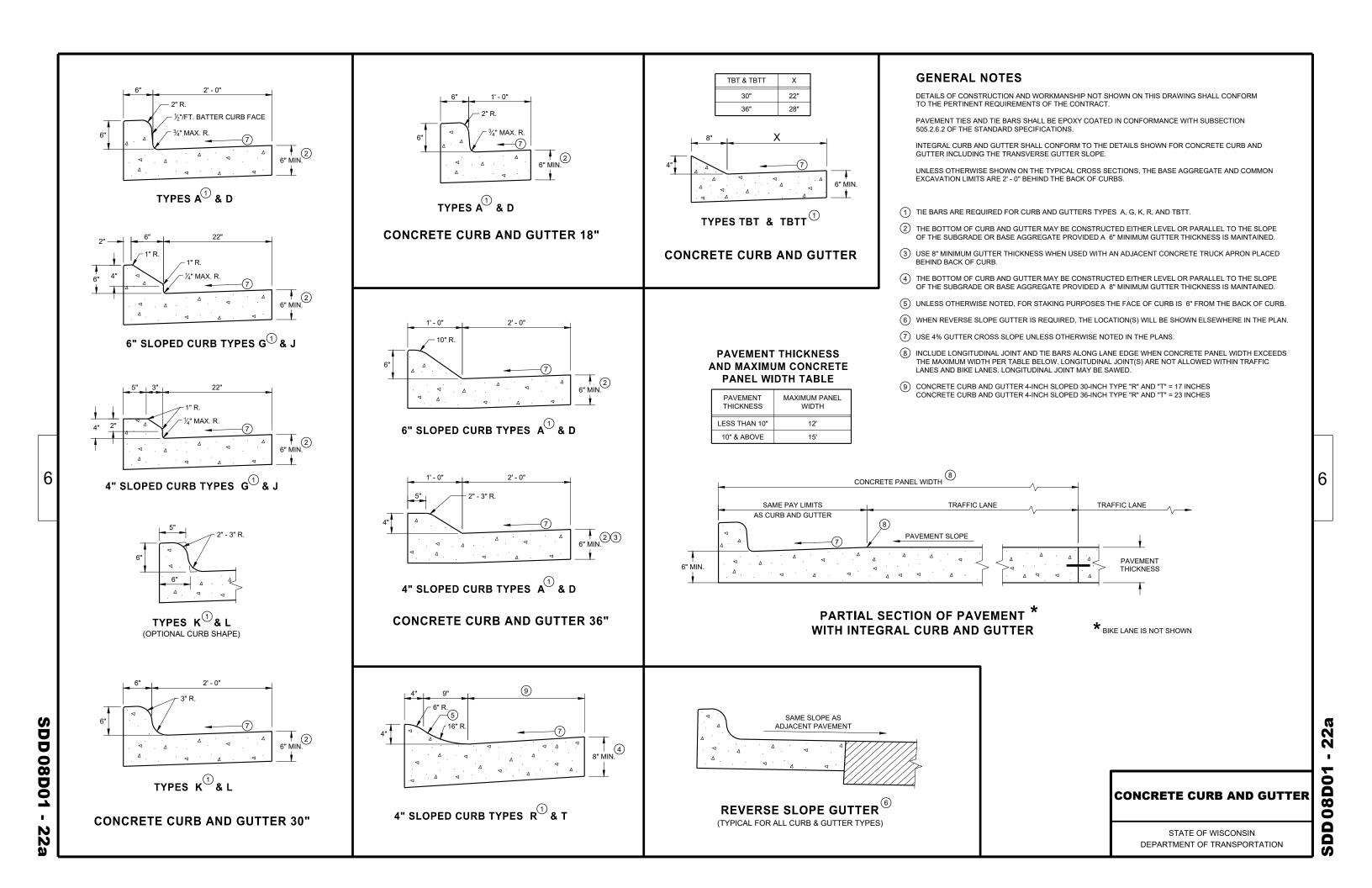
LOT, TIE, AND OTHER MINOR LINES ------

NEW REFERENCE LINE

#### \_

# Standard Detail Drawing List

08D01-22A	CONCRETE CURB & GUTTER
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E10-02	INLET PROTECTION TYPE A, B, C AND D
09B02-10	CONDUI T
09B16-01	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C11-10	CONCRETE BASE TYPE 10
09C12-09A	CONCRETE BASE TYPE 13
09C12-09B	CONCRETE BASE TYPE 13
09C15-01	CONCRETE BASE TYPE 10 SPECIAL
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
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
09E08-09B	TYPE 9 SPECIAL POLE 35' MONOTUBE ARM
09E08-09D	TYPE 9 SPECIAL POLE 45' MONOTUBE ARM
09E08-09E	TYPE 10 POLE 15' -30' MONOTUBE ARM
09E08-09G	TYPE 10 SPECIAL POLE 40' MONOTUBE ARM
09E08-09K	GENERAL NOTES, HARDWARE DETAILS FOR TYPE 9/10, 9/10 SPECIAL, 12 & 13 POLES W/MONOTUBE ARMS
09F13-04	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
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
11B02-02	CONCRETE MEDI AN NOSE
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-09B	CHANNELIZING DEVIĈES DRUMS, ĆONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-05	MEDIAN ISLAND MARKING
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D20-05A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D30-06A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-00A 15D30-06B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-06D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-06C 15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02A 15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D38-02B 15D39-02	
15D39-02 15D44-02	TRAFFIC CONTROL, DROP-OFF SIGNING TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
13044-02	TRAFFIC CONTROL, STUNTING ON ROADWATS WITH WILLED SURFACES

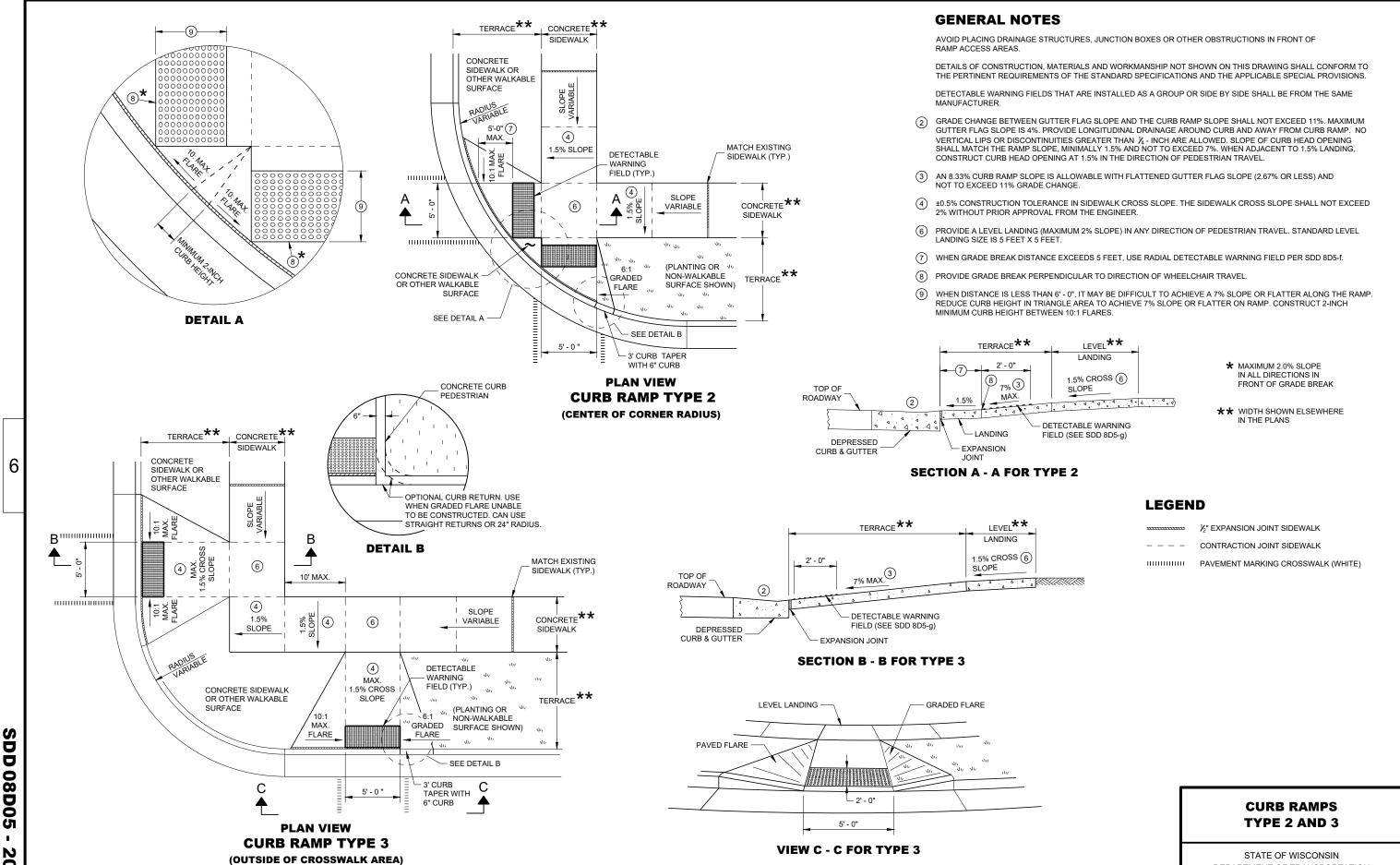


**VIEW D - D FOR TYPE 1 - A** 

**SECTION B - B FOR TYPE 1** 

80

DEPARTMENT OF TRANSPORTATION



Ñ

08D0 

DEPARTMENT OF TRANSPORTATION

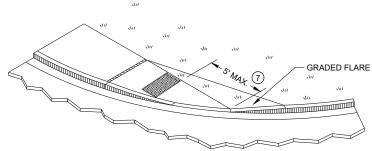
**SDD 08D05** 

**70** 

08D0

SDD

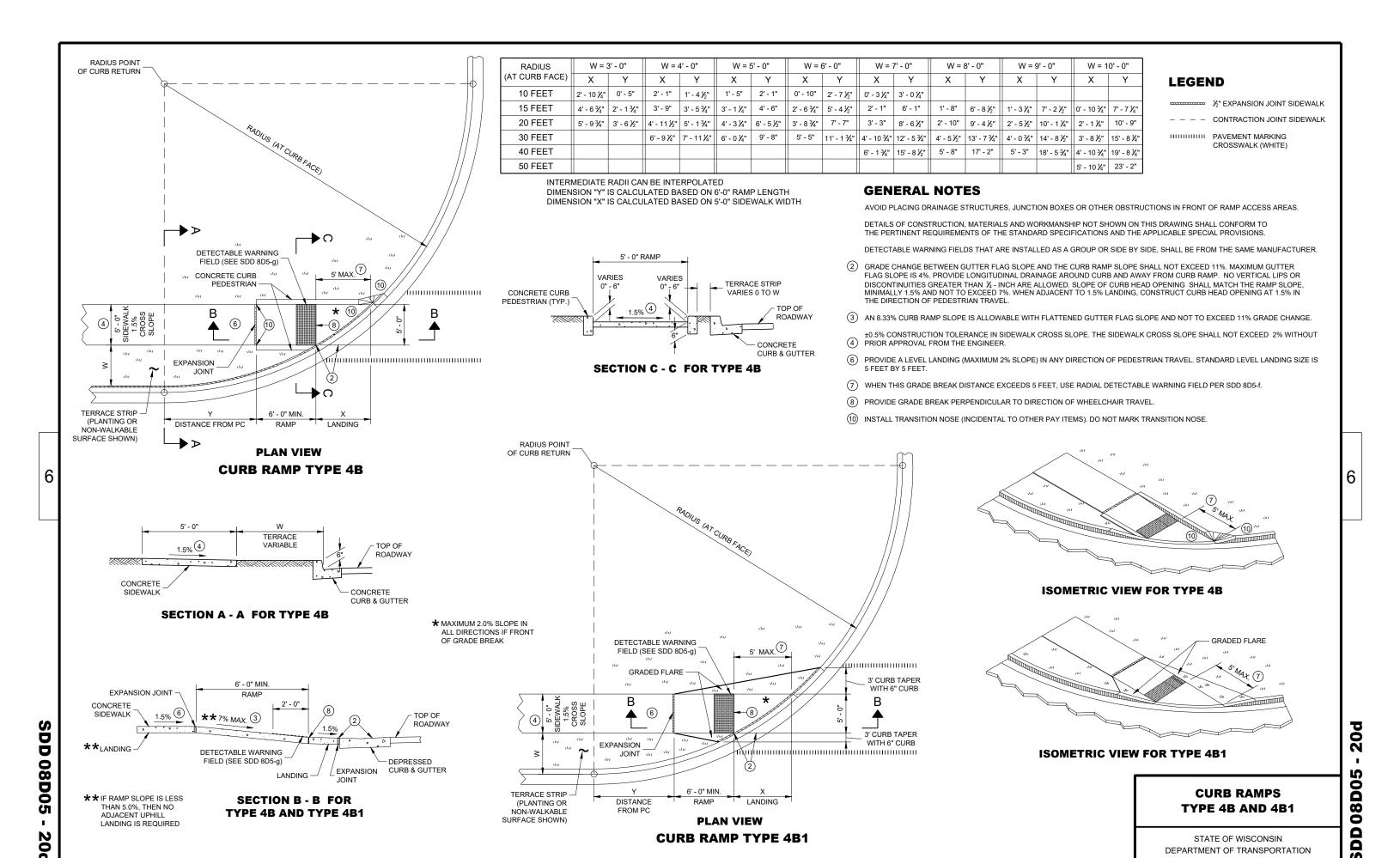
# **ISOMETRIC VIEW FOR TYPE 4A**



**ISOMETRIC VIEW FOR TYPE 4A1** 

**CURB RAMPS TYPE 4A AND 4A1** 

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



Ñ

08D0

DEPARTMENT OF TRANSPORTATION

**SDD 08D05** 

**DEPRESSED CURB & GUTTER** 

\*\*\* MAXIMUM 8.33%

FIELD (SEE SDD 8D5-a)

**SECTION B - B FOR TYPE 4B1** 

IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO

LANDING IS REQUIRED

ADJACENT UPHILL

S

0

 $\overline{\infty}$ 

Õ

S

6

ÖD 08D05

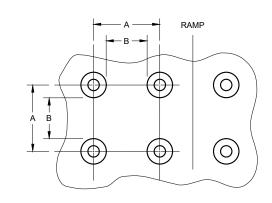
20f

DEPARTMENT OF TRANSPORTATION

STATE OF WISCONSIN

**FIELD APPLICATIONS** 

6



1.6" 2.4" 0.65" 1.5" \* \*

1.4"

MAX.

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

0.9"

MIN.

В

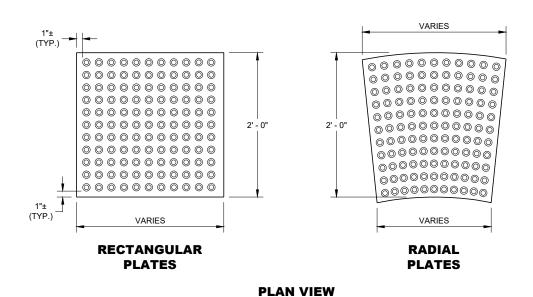
С

**PLAN VIEW** 

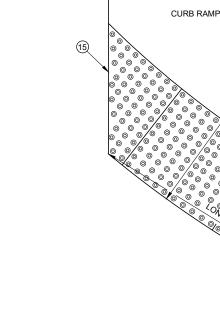


**ELEVATION VIEW** 

### **TRUNCATED DOMES DETECTABLE WARNING PATTERN DETAIL**



**DETECTABLE WARNING FIELDS (TYPICAL)** 



**PLAN VIEW** RADIAL DETECTABLE **WARNING FIELD ATTRIBUTES** 

RADIAL PLATE

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

**GENERAL NOTES** 

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION. FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

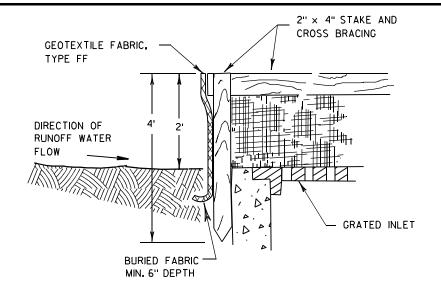
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

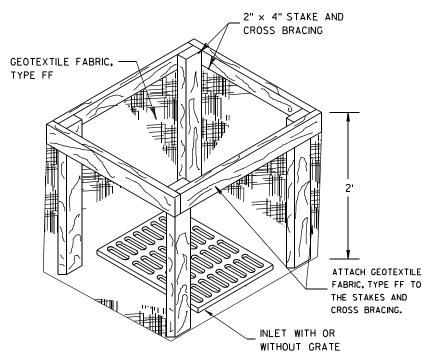
FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE.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

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) 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.





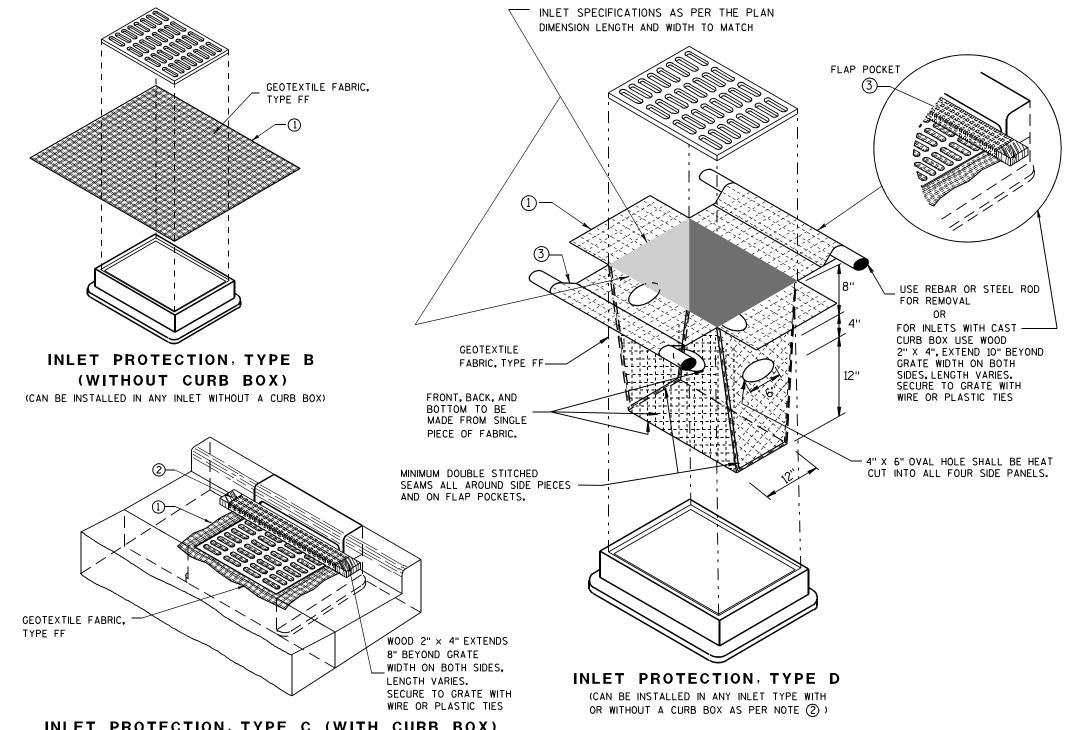
INLET PROTECTION, TYPE A

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

6

0

ш

 $\infty$ 

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

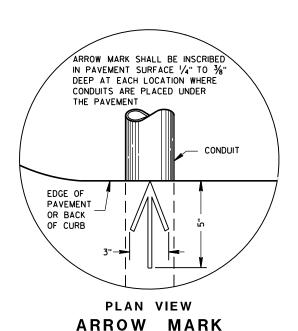
APF	RO	VED	

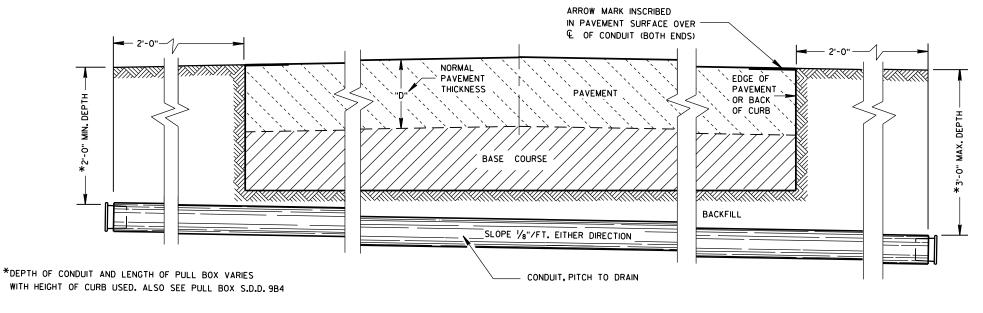
/S/ Beth Cannestra 10/16/02 CHIEF ROADWAY DEVELOPMENT ENGINEER

 $\mathbf{\omega}$ 

0

Ω





# 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

DIMENSION IN INCHES		NON-CONDUCTIVE PULL BOX		
BOX DIAMETER ** (INSIDE)	Α	24	24	
BOX OVERALL OUTSIDE DIAMETER	В	27	27	
BOX LENGTH	С	36	42	
FRAME OPENING	D	22 1/2	22 1/2	
WEIGHT IN POUNDS *				
COVER		50	50	
BOX ONLY		75	85	

- \* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.
- \*\* DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE

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

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN 1/4".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

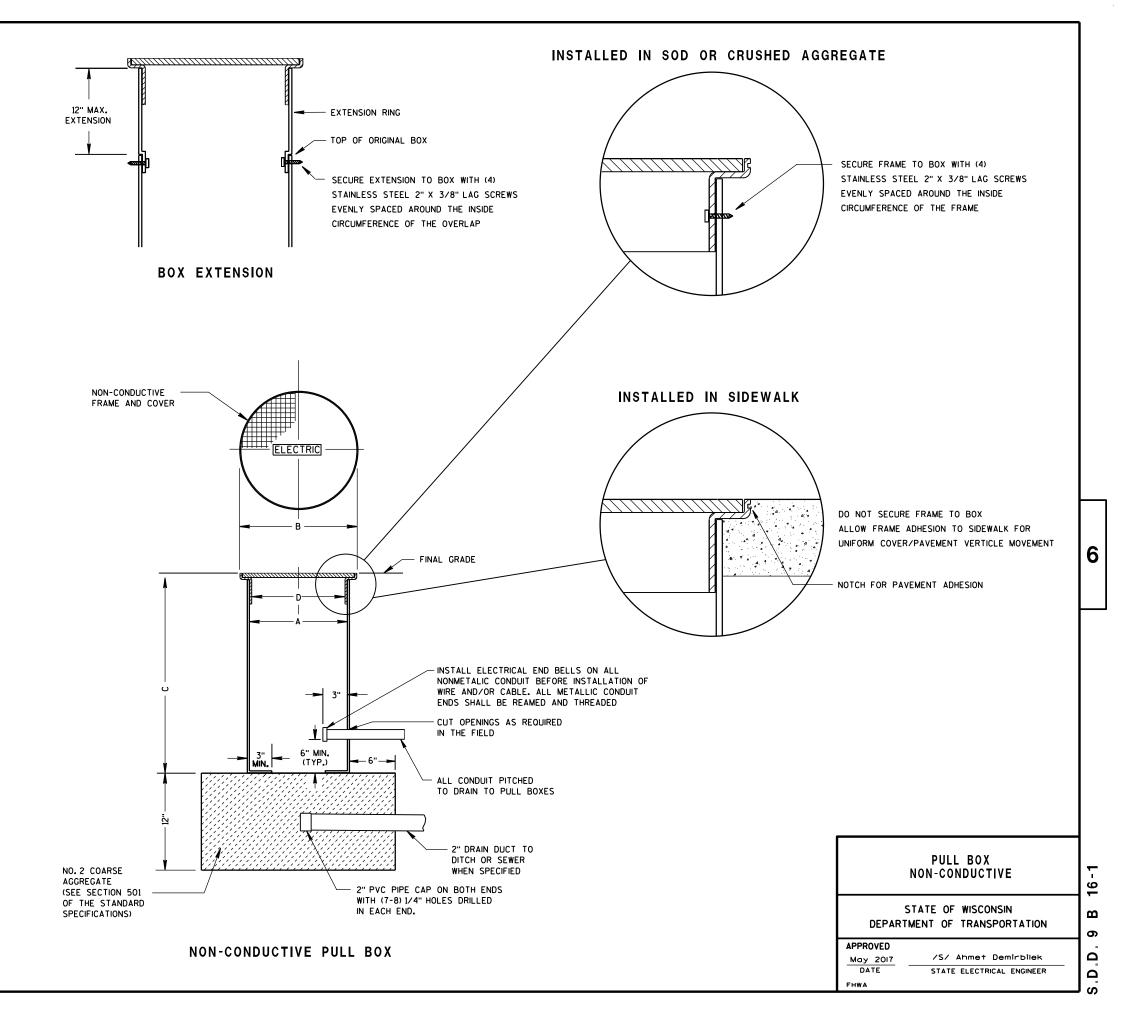
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

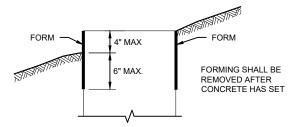
WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.



6

S.D.D. 9 B



EODMING	DETAIL

QUANTITY	CONCRETE BASE TYPE		
REQUIREMENTS	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

1" CONDUIT

**PURPOSES** 

FOR GROUNDING

#### **GENERAL NOTES**

CONDUIT

11 1/2" BOLT CIRCLE

(OUT TO OUT)

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

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.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

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

1" CONDUIT

**PURPOSES** 

6" DIA.

ANCHOR RODS SHALL BE

ORIENTED PARALLEL TO

FOR GROUNDING

CONDUIT WITHIN

CONDUIT

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

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

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

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES 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

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

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

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

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

- 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 EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.
- (2) (4) 1" DIA. X 3' 6" ANCHOR RODS.
- (3) (4) 1" DIA. X 5' 0" ANCHOR RODS.
- (6) NO. 6 X 6' 8" BAR STEEL REINFORCEMENT.
- (7) NO. 4  $\,$  X  $\,$  5' 1" BAR STEEL REINFORCEMENT @ 1' 0" C C.
- (6) (4) 1" DIA. X 3' 6" ANCHOR RODS.
- (6) NO. 4 X 4' 8" BAR STEEL REINFORCEMENT.
- (8) (5) NO. 4  $\times$  5' 1" BAR STELL REINFORCEMENT @ 1' 0" C -C.
- EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR
- (10) 5/8" DIA. X 8'-0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED
- ANY ANCHOR ROD PROJECTION SHORTER THAN 2 3/4" OR LONGER THAN 3 1/4" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
- 12) FOR NON BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS, RODENT SCREEN REQUIRED.



0

2

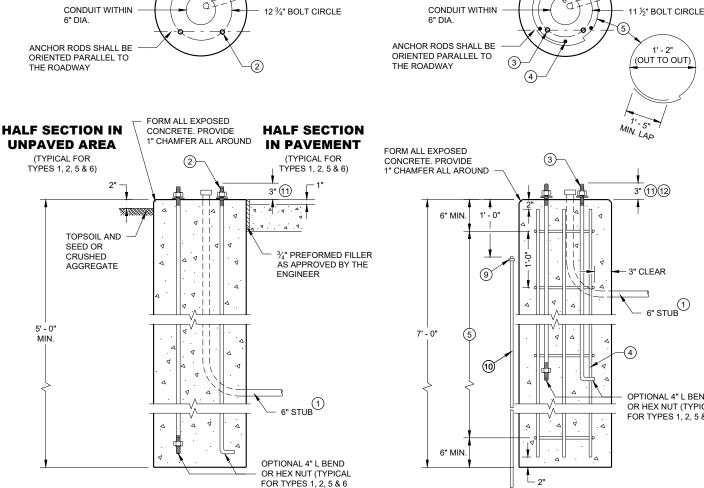
Ü

0

Ö

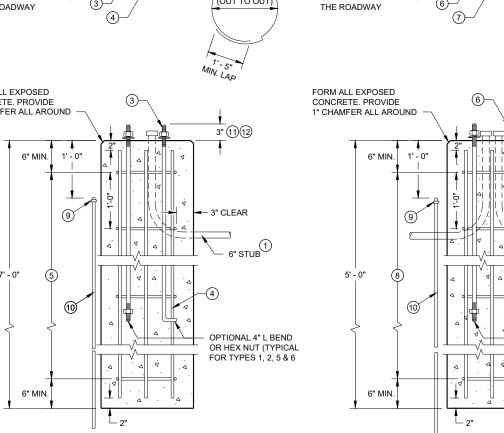
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE STATE ELECTRICAL ENGINEER



TYPE 1

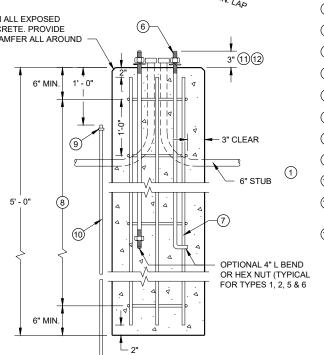
CONDUIT



TYPE 2

**CONCRETE BASES** 

CONDUIT

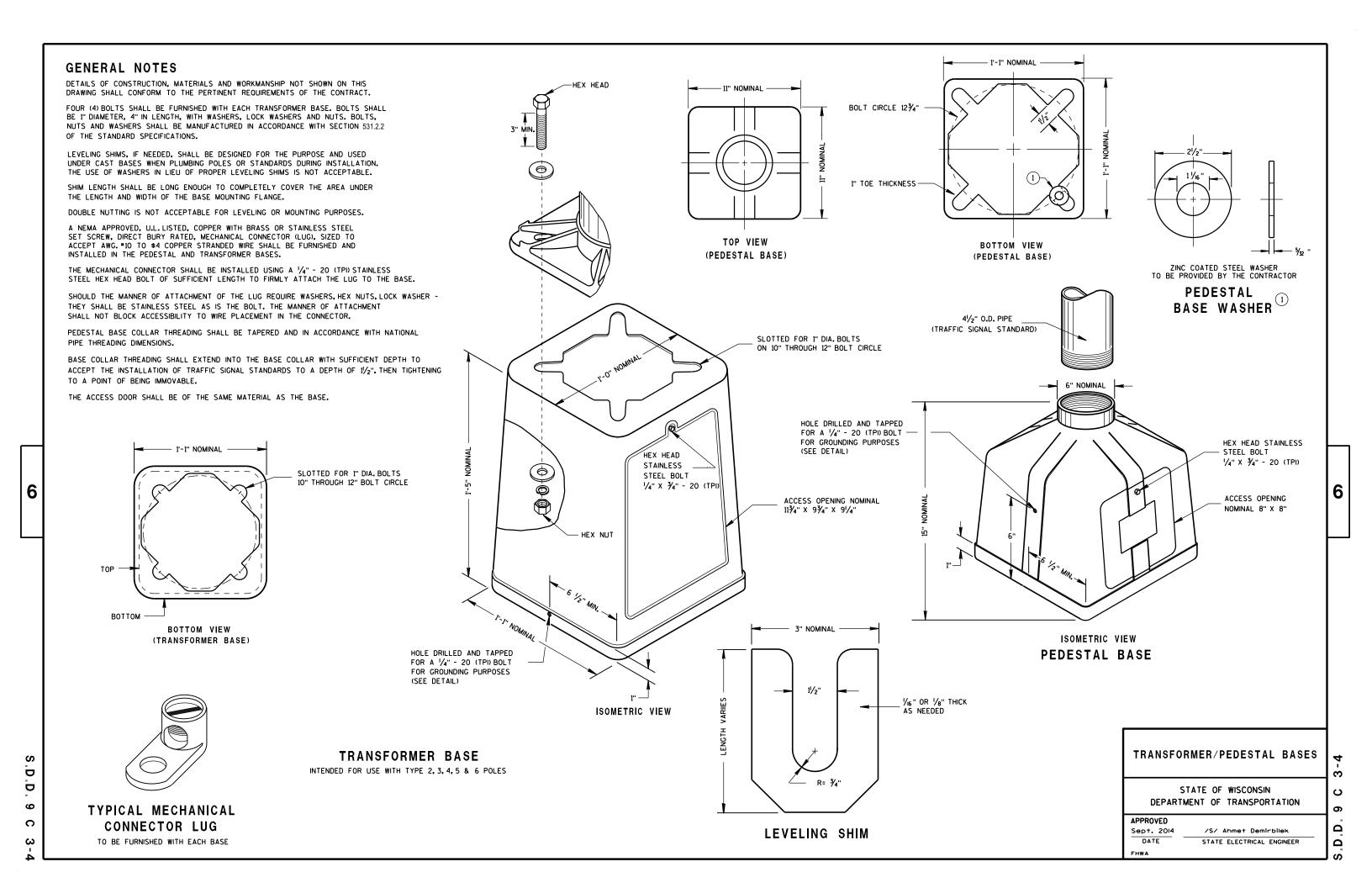


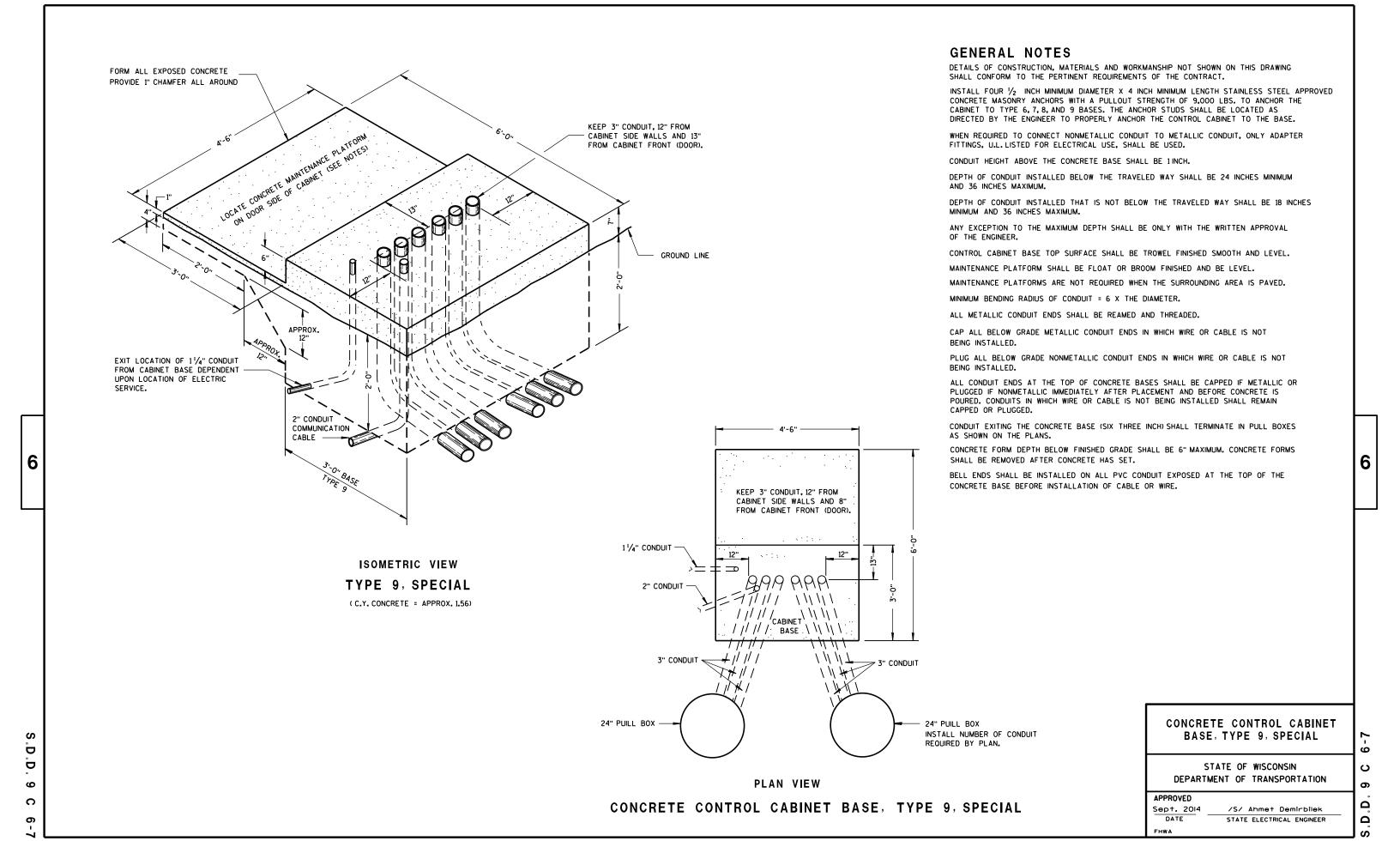
**TYPE 5 & 6** 

SD

6

09C02





BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND

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

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 AT THE ENTRANCE OF THE BASE.

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

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED 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. CONDUIT 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.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

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

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL. THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

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 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.

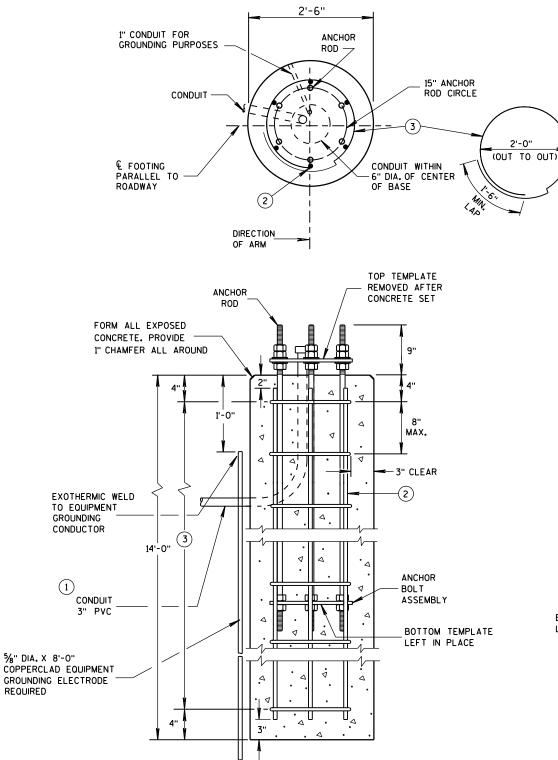
WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

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.

- 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 BY THE ENGINEER.
- (2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.
- (3) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

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



# (FOR TYPE 9 & 10 & OVER HEIGHT (OH) POLES)

TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.

FORMING DETAIL ANCHOR ROD CIRCLE DIAMETER = 15" € FOOTING PARALLEL TO-1/2" THICK TEMPLATES ROADWAY 11/2" ANCHOR RODS DIRECTION TOP AND BOTTOM TEMPLATES TOP TEMPLATE REMOVED AFTER CONCRETE SET TOP OF CONCRETE THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 51/2" FOR 2 NUTS PER ANCHOR ROD. HOT-DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR RODS (ASTM A123) AND HOT-DIP NUTS AND WASHERS (ASTM A153). USE ZINC COATED NUTS MANUFACTURED WITH (6) - 11/2" X 52" SUFFICIENT ALLOWANCE TO ALLOW NUTS ANCHOR RODS TO RUN FREELY ON THE THREADS. BOTTOM TEMPLATE LEFT IN PLACE THREAD BOTTOM OF ANCHOR ROD 51/2" ANCHOR BOLT ASSEMBLY DETAIL **CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY** 

NO MORE THAN 4" BELOW

GRADE ON THE LOWER

SIDE OF BASE

4" MAX.

# **CONCRETE BASE TYPE 10**

**OUANTITY REQUIREMENTS** APPROX. CUBIC 2.5 YARDS OF CONCRETE LBS. OF HOOP 172 BAR STEEL LBS. OF VERTICAL 122 BAR STEEL

# **CONCRETE BASE TYPE 10**

TROWEL FINISH

OF CONCRETE

2" MAX.-

- FORM

1" MAX.

AND LEVEL TOP

FORMING SHALL BE REMOVED AFTER

CONCRETE HAS SET

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ပ

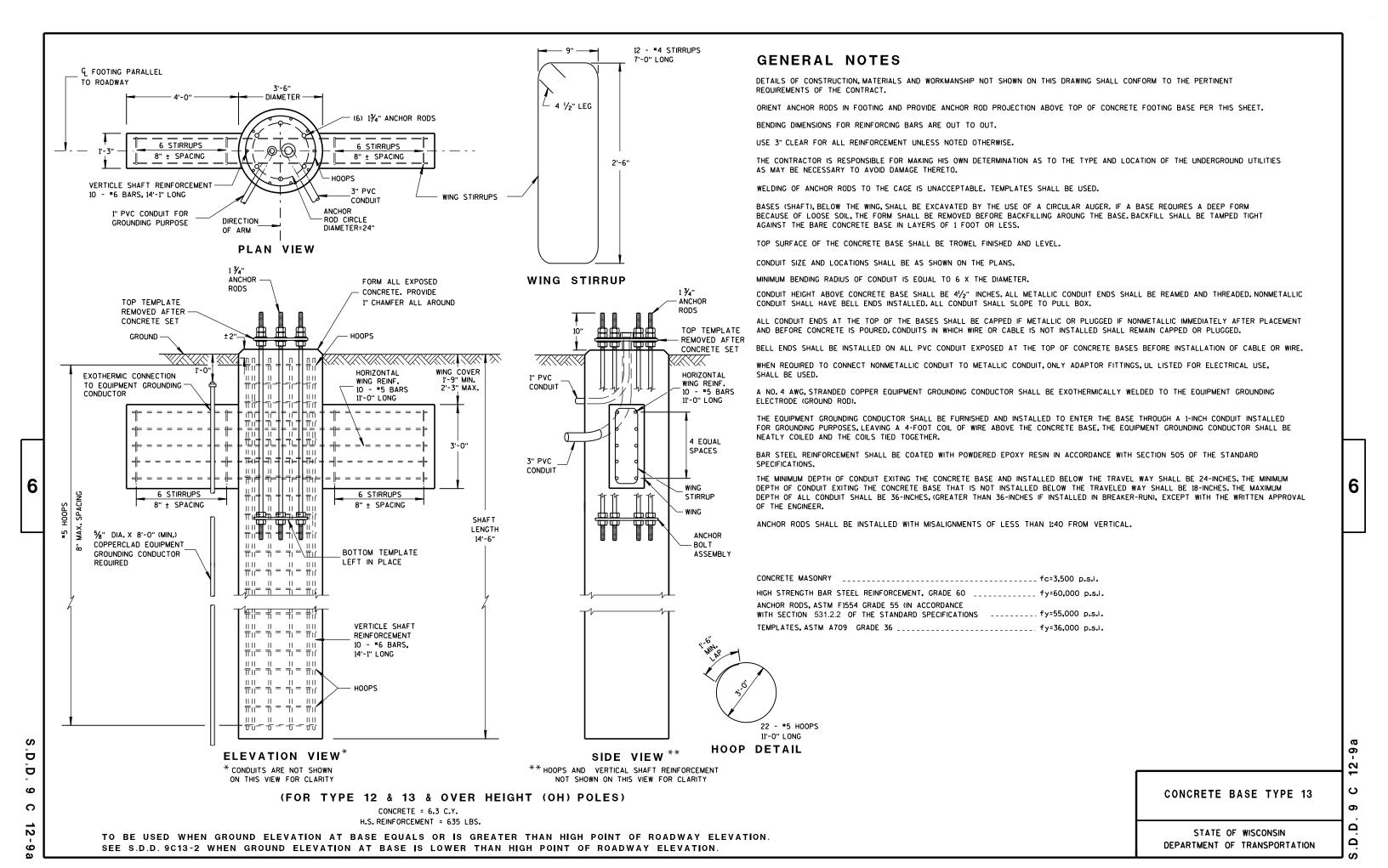
Δ

Ω

**APPROVED** May 2017 /S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER

FHWA

Ö ဖ C



12

ပ

Ω

Ö

D 9

C

12-9b

ANCHOR ROD CIRCLE DIAMETER = 24"

€ FOOTING PARALLEL TO-

ROADWAY

13/4" ANCHOR RODS

TOP TEMPLATE

REMOVED AFTER CONCRETE SET

TOP OF CONCRETE

LEFT IN PLACE THREAD BOTTOM OF ANCHOR ROD 51/2"

1/2" THICK TEMPLATES

THREAD TOP 11" OF ANCHOR ROD FOR 3

NUTS AND 2 WASHERS AND BOTTOM 51/2" FOR 2 NUTS PER ANCHOR ROD. HOT-DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR RODS (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.

DIRECTION

TOP AND BOTTOM TEMPLATES

ANCHOR BOLT ASSEMBLY DETAIL

# CONCRETE BASE TYPE 13 ANCHOR ASSEMBLY

TROWEL FINISH NO MORE THAN 4" BELOW AND LEVEL TOP GRADE ON THE LOWER OF CONCRETE SIDE OF BASE 2" MAX.— 4" MAX. - FORM -4" MAX. FORMING SHALL BE REMOVED AFTER CONCRETE HAS SET FORMING DETAIL

CONCRETE BASE TYPE 13

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2017 DATE

/S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER FHWA

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 PUILL 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.

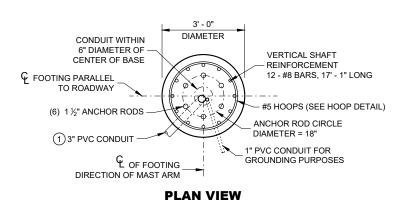
WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

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.





FORM DEPTH SHALL BE
NO MORE THAN 4" BELOW
GRADE ON THE LOWER
SIDE OF BASE

FORM

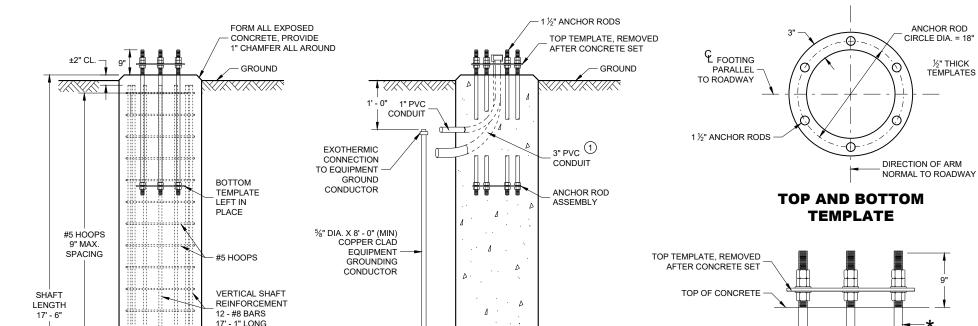
4" MAX

FORM

F

100P DETAIL

### **FORMING DETAIL**



**SIDE VIEW** (HOOPS AND VERTICAL SHAFT REINFORCEMENT

NOT SHOWN ON THIS VIEW FOR CLARITY)

# ANCHOR ROD ASSEMBLY DETAILS

(6) - 1 ½" X 52"

ANCHOR RODS

BOTTOM TEMPLATE LEFT IN PLACE

★ 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)

#5 HOOPS

**ELEVATION VIEW** 

(CONDUITS NOT SHOWN ON

THIS VIEW FOR CLARITY)

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

THREAD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

 APPROVED

 August 2020
 /S/ Alex Crabtree

 DATE
 WIND LOADED STRUCTURES PROGRAM LEADER

6

SDD 09C15

Ω

တ

Ω

/S/ Ahmet Demirbilek

STATE ELECTRICAL ENGINEER

Sept. 2014

DATE

FHWA

**TYPE 4 POLE MOUNTING CONFIGURATION** 

<u>60</u>

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

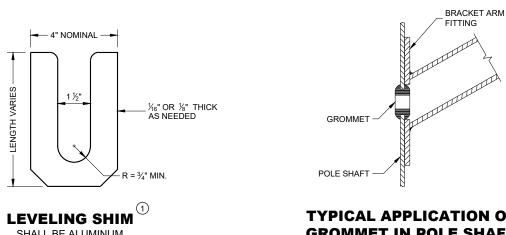
SDD 09E

AO

60







GUSSETS REQUIRED

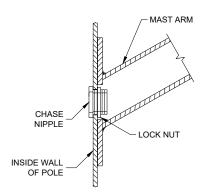
STAINLESS STEEL HARDWARE - BOLT LENGTH

FOR TROMBONE ARM CLAMPS SHALL BE 4 ½"
MIN. - 6" MAX.. BOLTS FOR LUMINAIRE ARM

CLAMPS SHALL BE 3 ½" IN LENGTH. THREAD

BOLTS ENTIRE LENGTH





**TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT** 

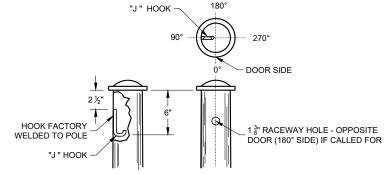
### **GENERAL NOTES**

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.



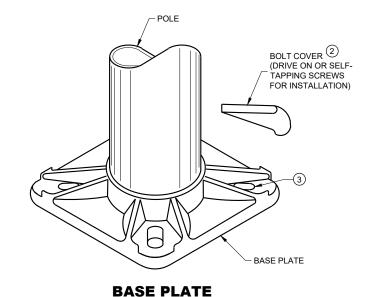


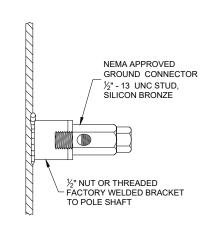
**TYPICAL "J" HOOK LOCATION** 

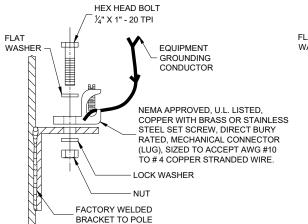
### **TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP**

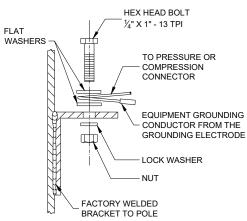
SHALL BE ALUMINUM

## **TYPICAL LUMINAIRE MAST ARM** (DOUBLE) MOUNTING BRACKETS









# TYPICAL GROUNDING CONNECTIONS

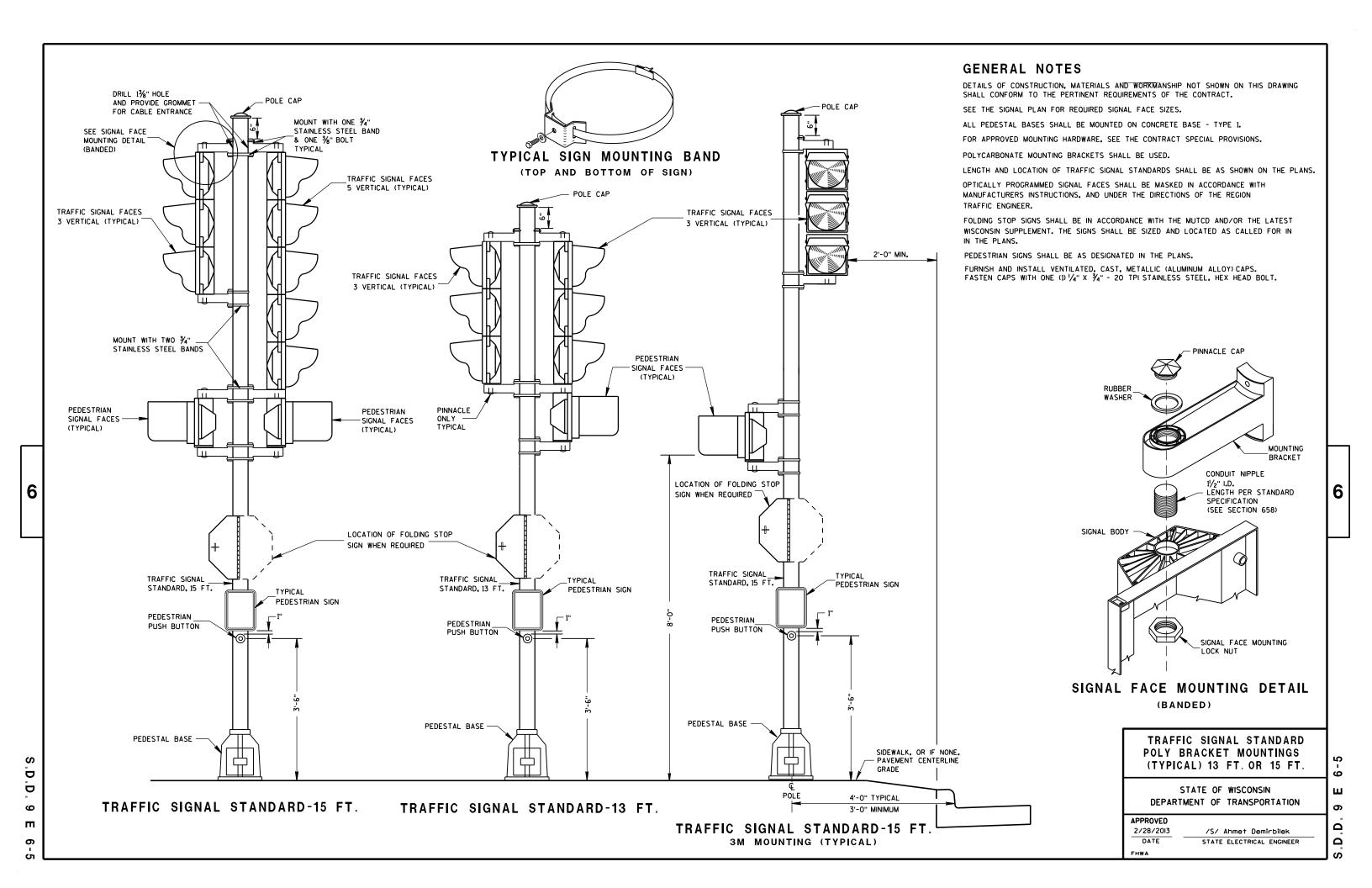
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

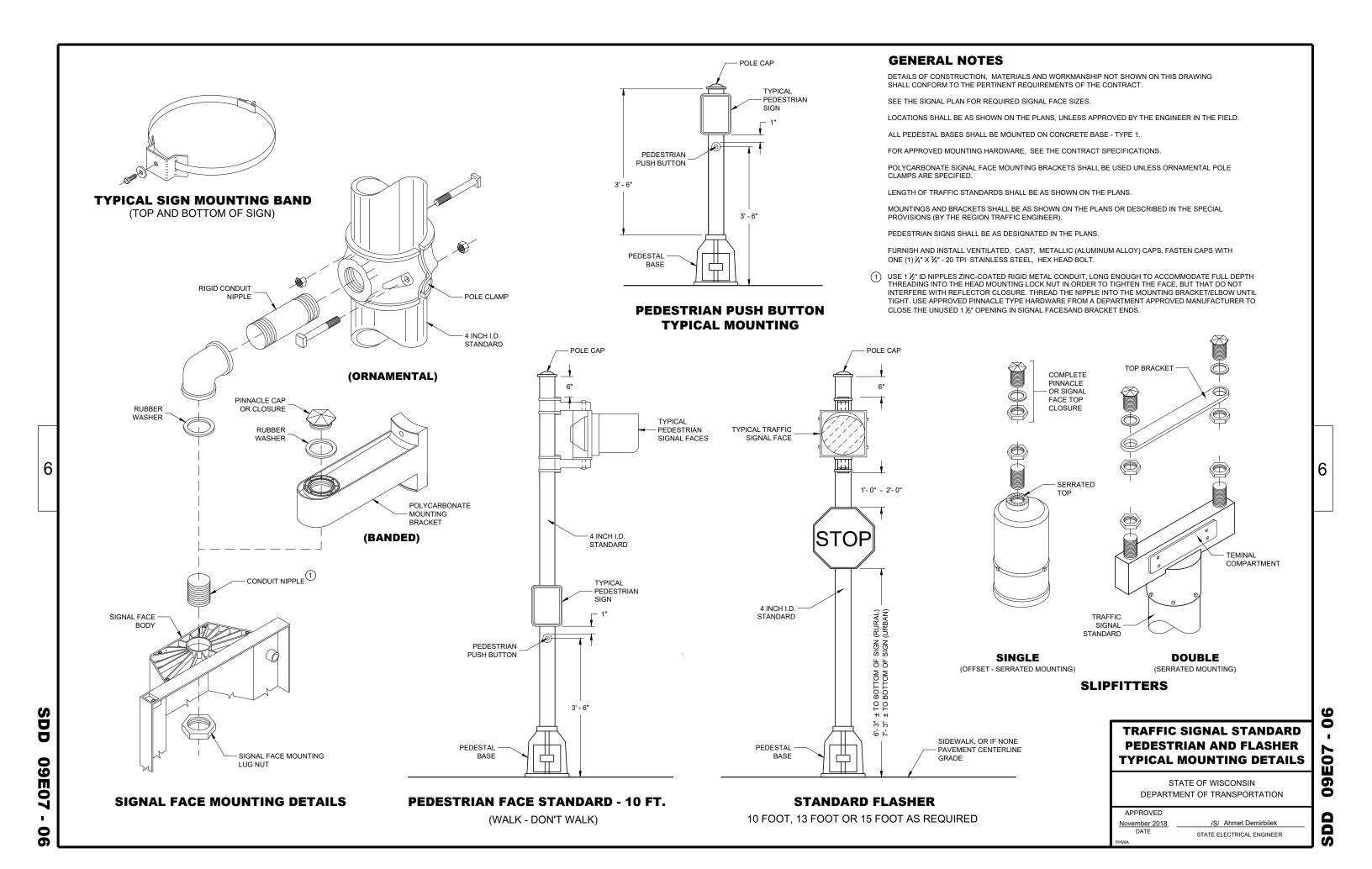
# **HARDWARE DETAILS FOR POLE MOUNTING**

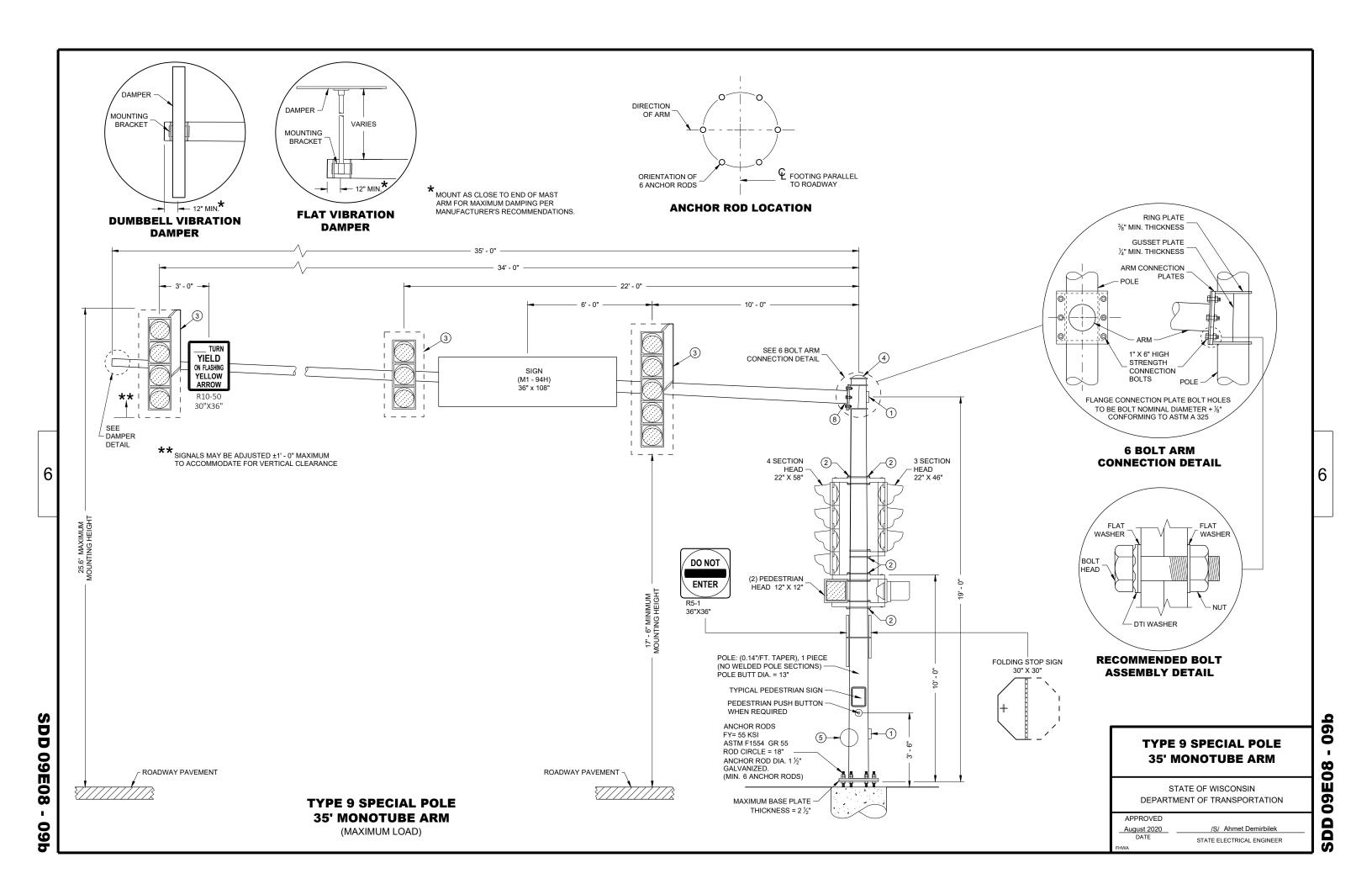
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

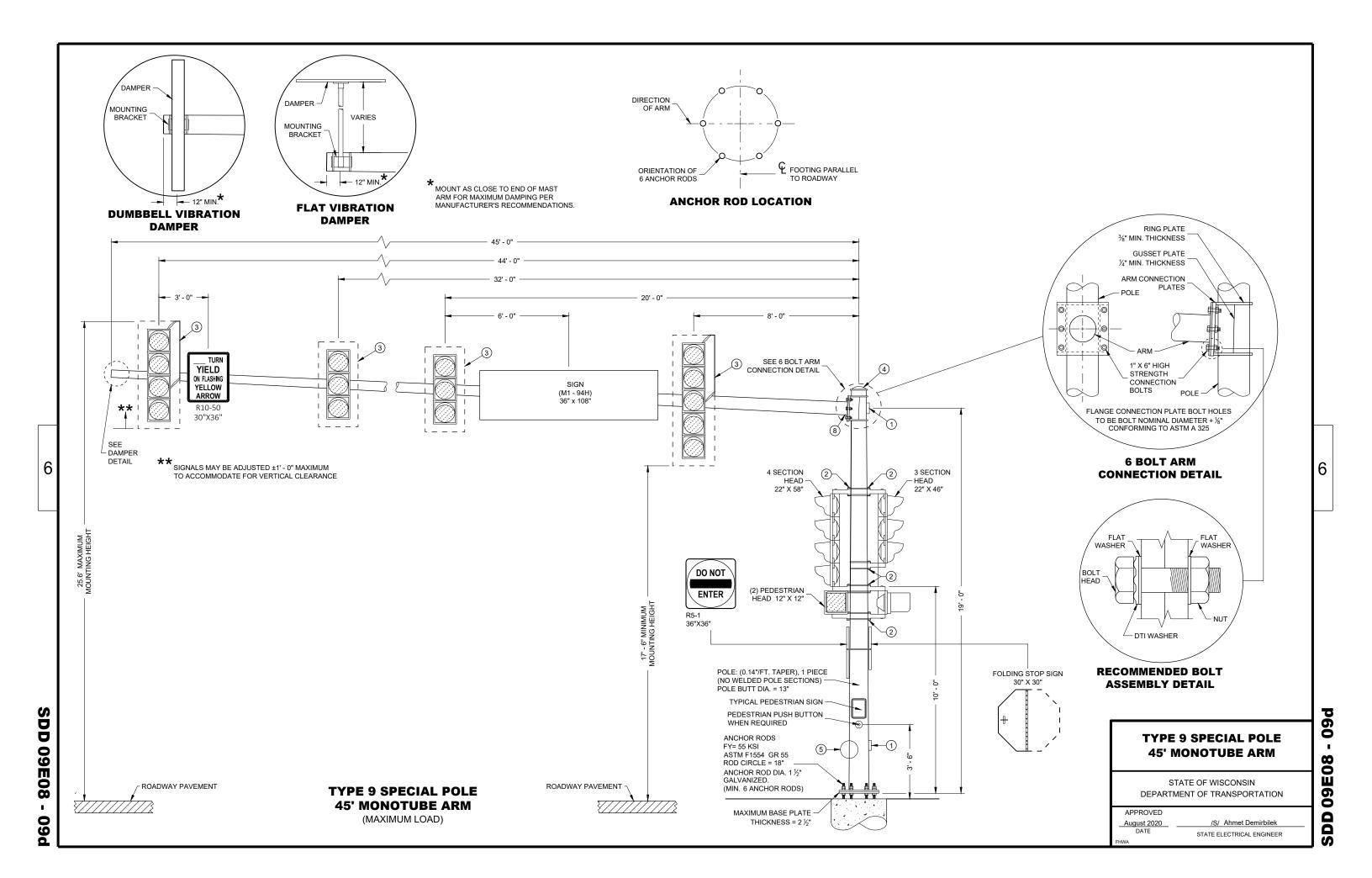
APPROVED

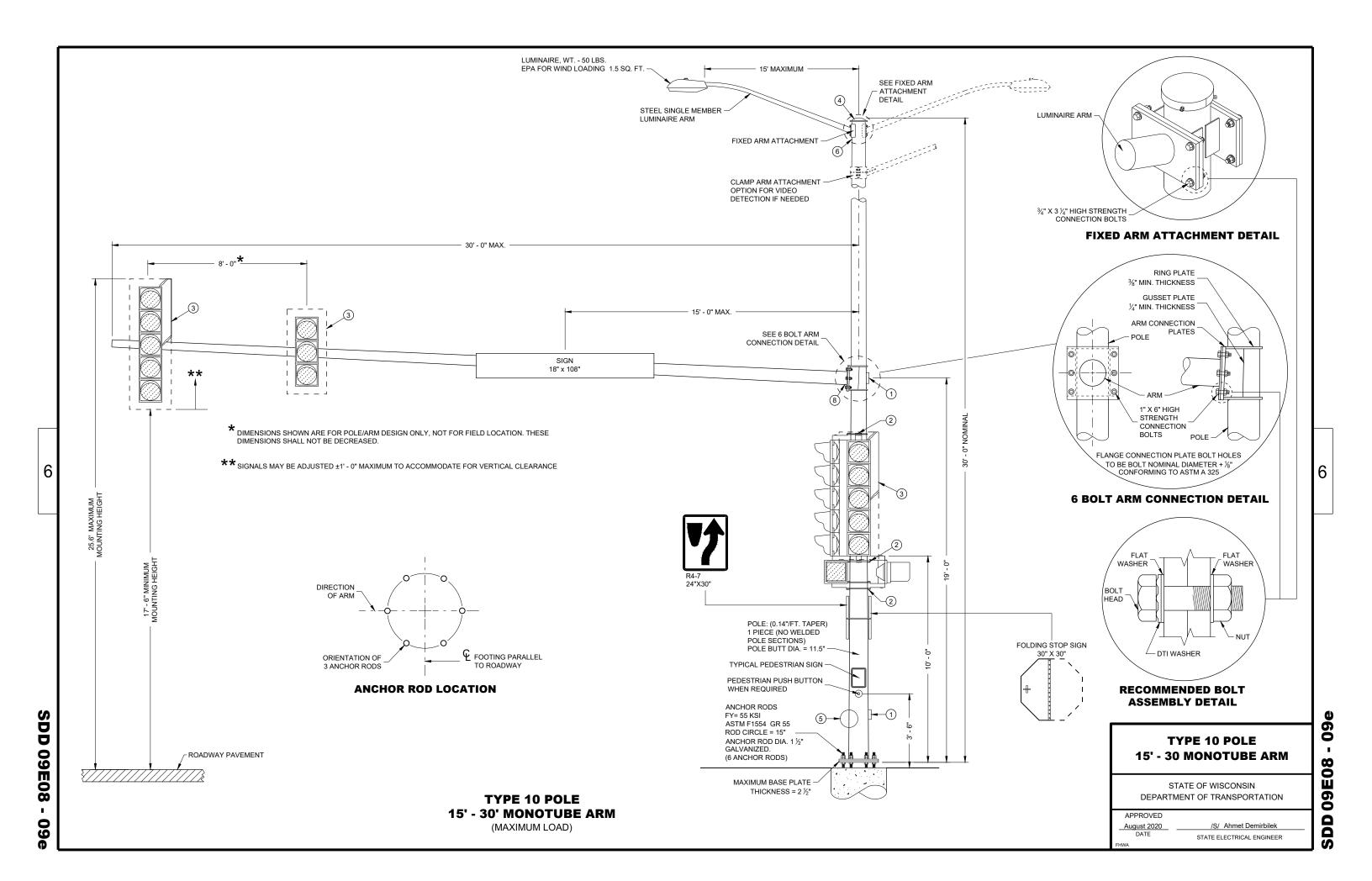
November 2018 DATE /S/ Ahmet Demirbilel STATE ELECTRICAL ENGINEER

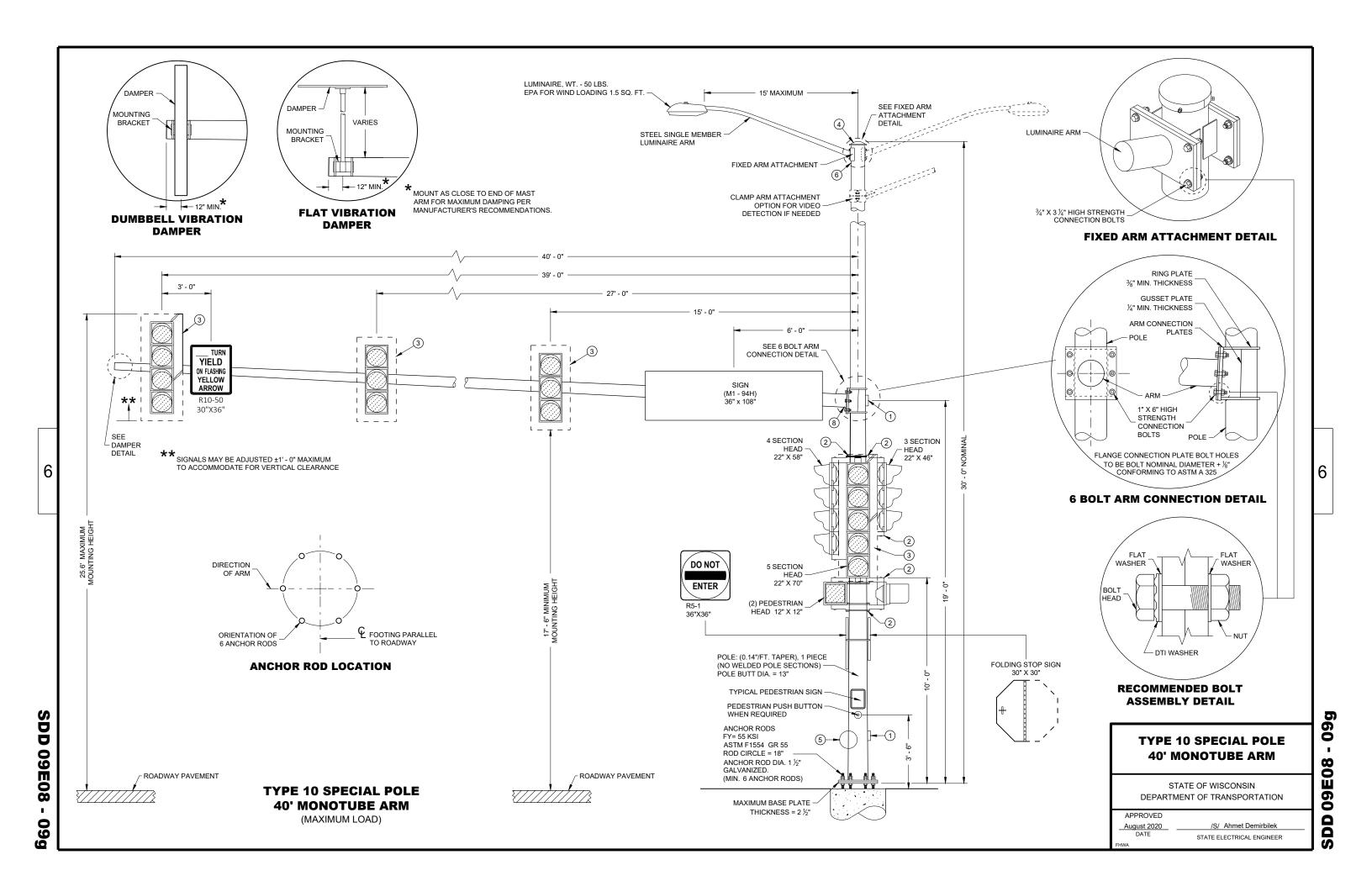












POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15 FOOT TO 30 FOOT.

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  $\chi$ " 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.

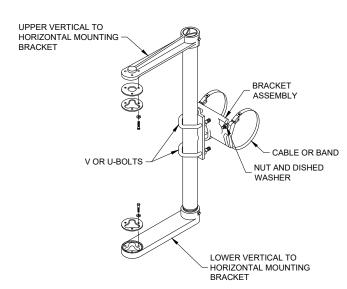
SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

- 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.

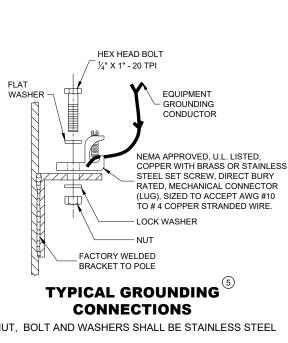
MOUNTING HEIGHT SHALL BE 6' - 0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

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

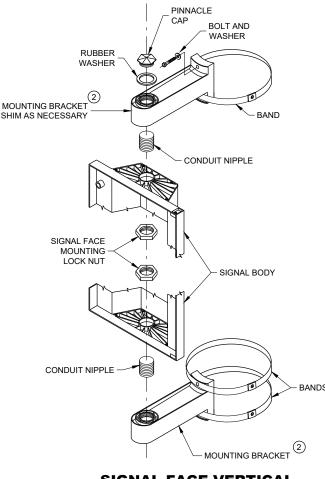


### SIGNAL FACE MOUNTING BRACKET **DETAIL FOR MONOTUBE ARM**

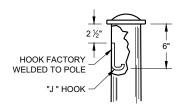
(MOUNT PER MANFACTURER'S RECOMMENDATION)



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**

0

60

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

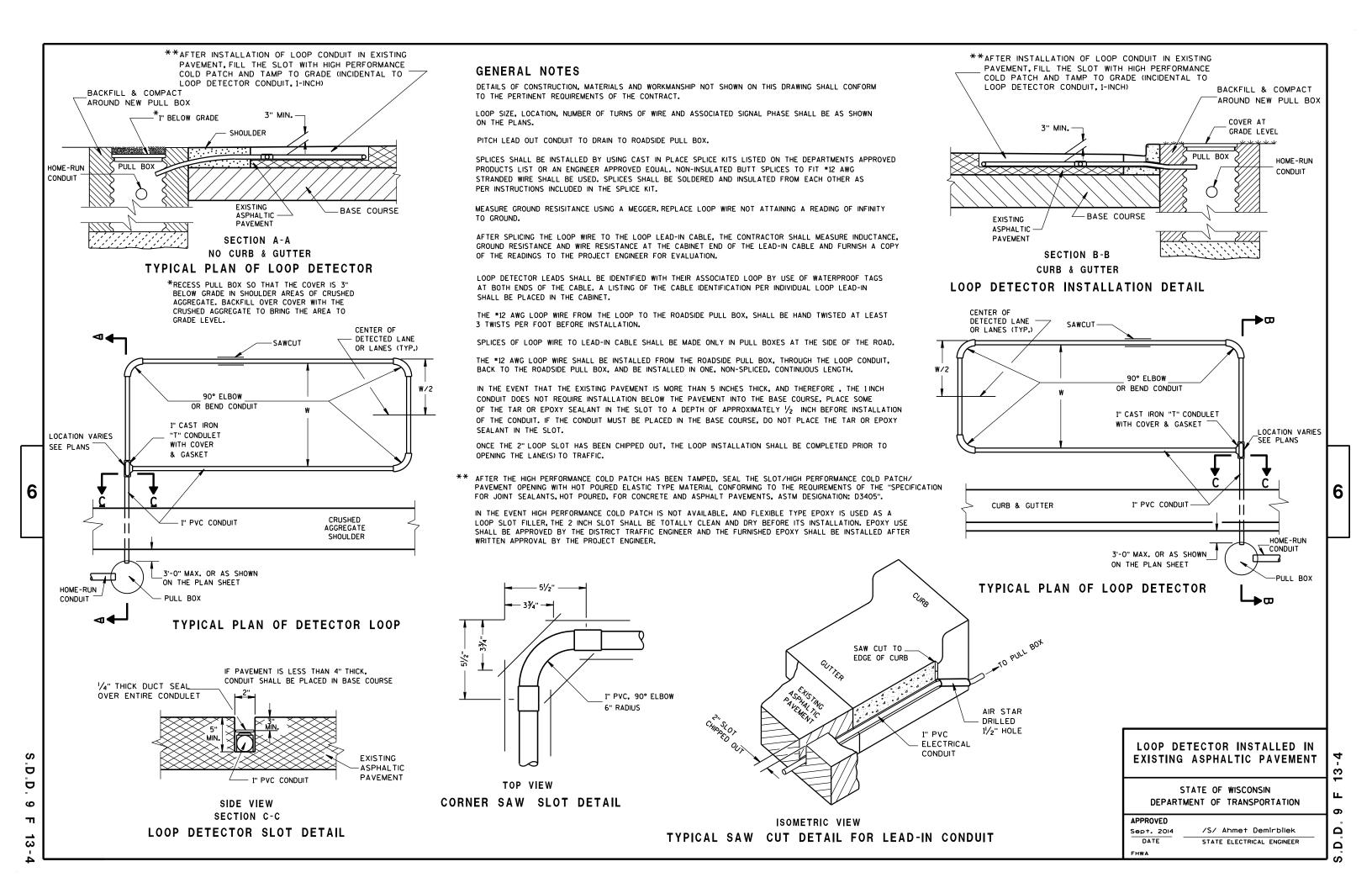
APPROVED /S/ Ahmet Demirbilel August 2020 DATE STATE ELECTRICAL ENGINEER

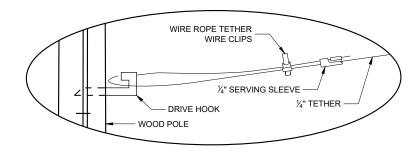
STRUCTURAL IDENTIFICATION **PLAQUE PLACEMENT** 

**TT** YY

6' - 0"

DD 09E08





**DETAIL "A"** 

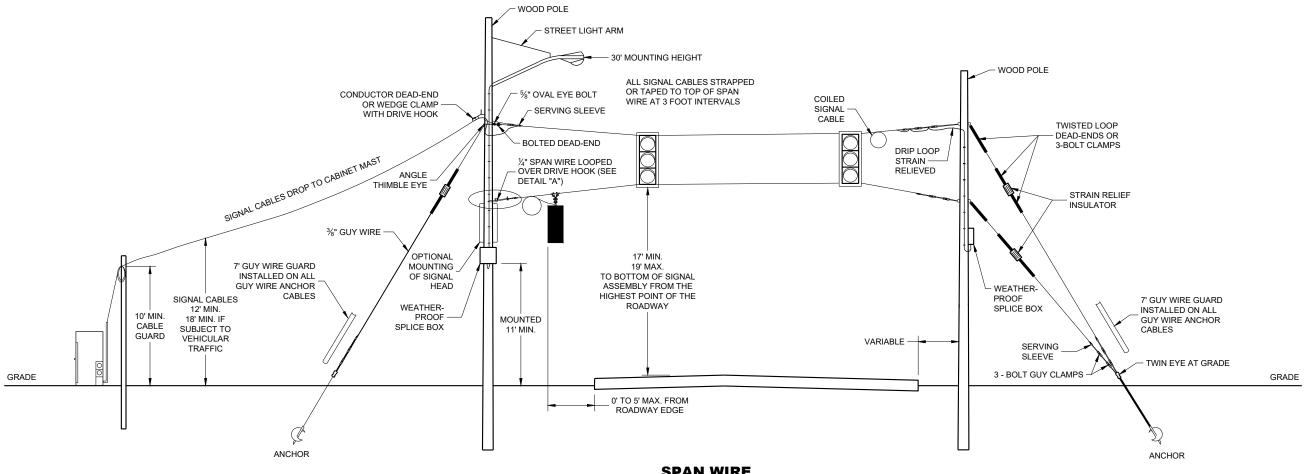
#### **GENERAL NOTES**

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.

#### 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

# SPAN WIRE TEMPORARY TRAFFIC SIGNAL

0

60

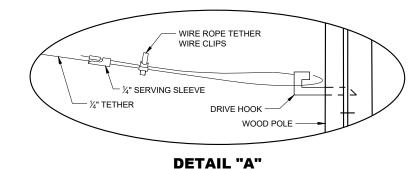
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

 APPROVED
 /S/ Ahmet Demerbilek

 June 2015
 /S/ Ahmet Demerbilek

 DATE
 STATE ELECTRICAL ENGINEER

SDD 09G01 - 04;

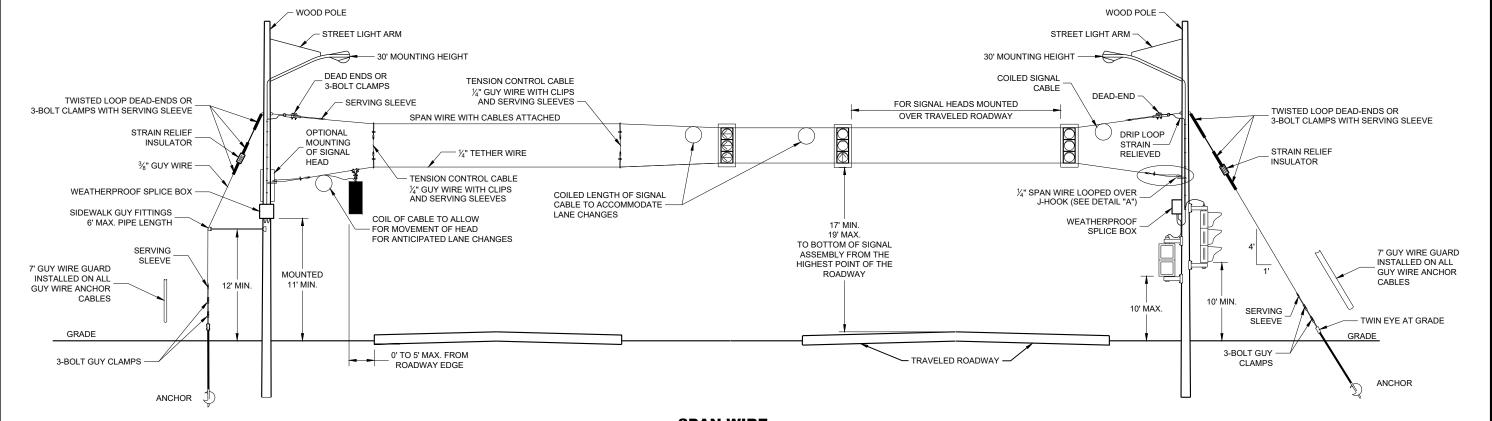


DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

- 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.
  - 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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2015

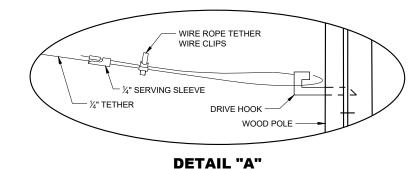
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGINEER

Ŏ

05

60

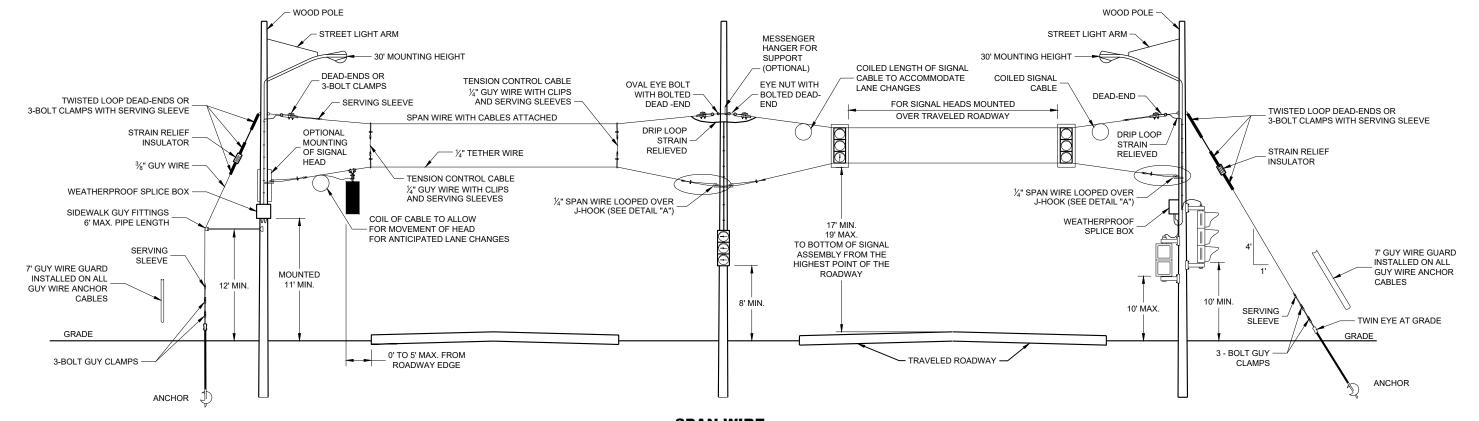


DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

- 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.
  - 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

0

Ü

Ŏ

Ö

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

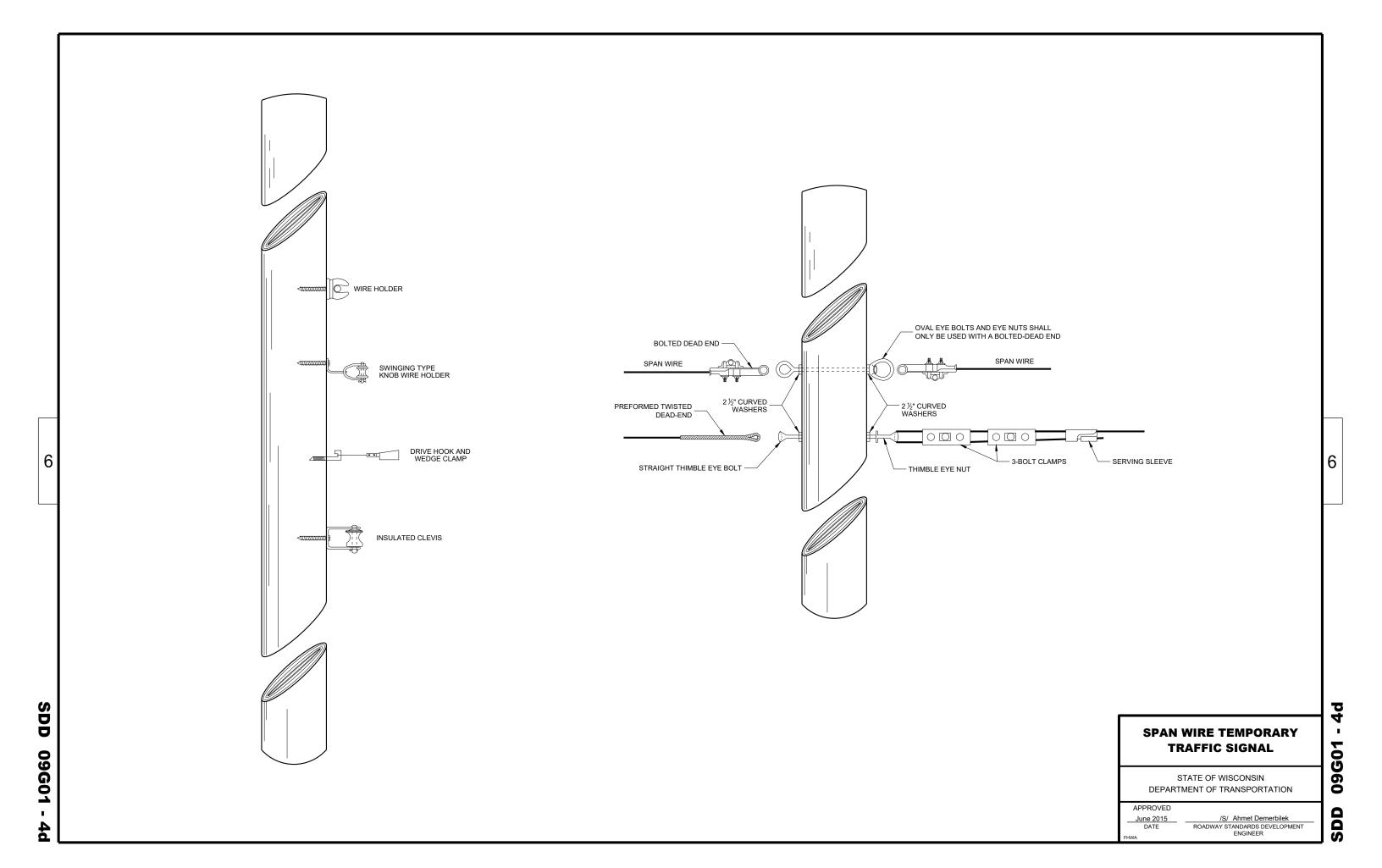
APPROVED

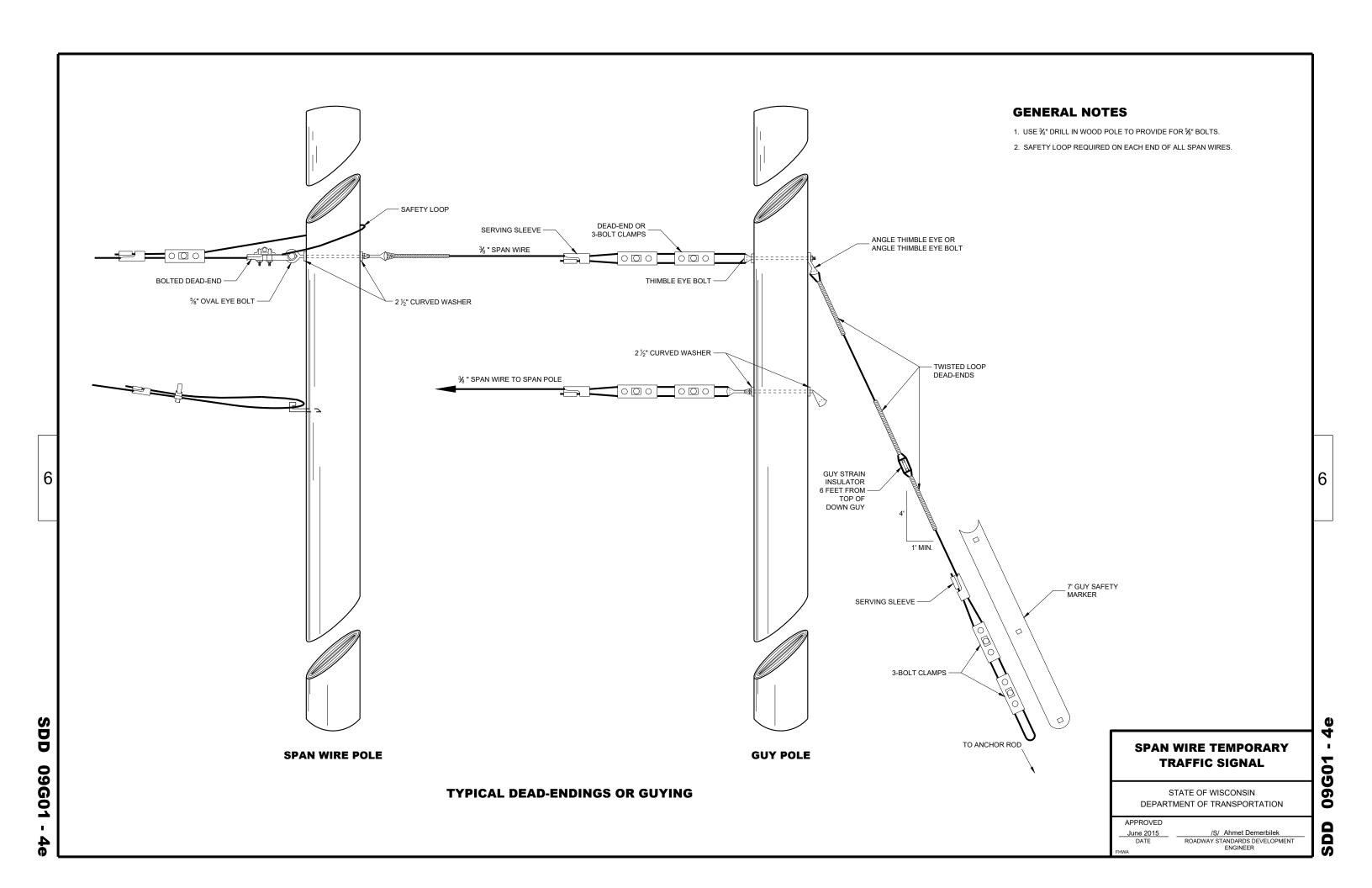
June 2015

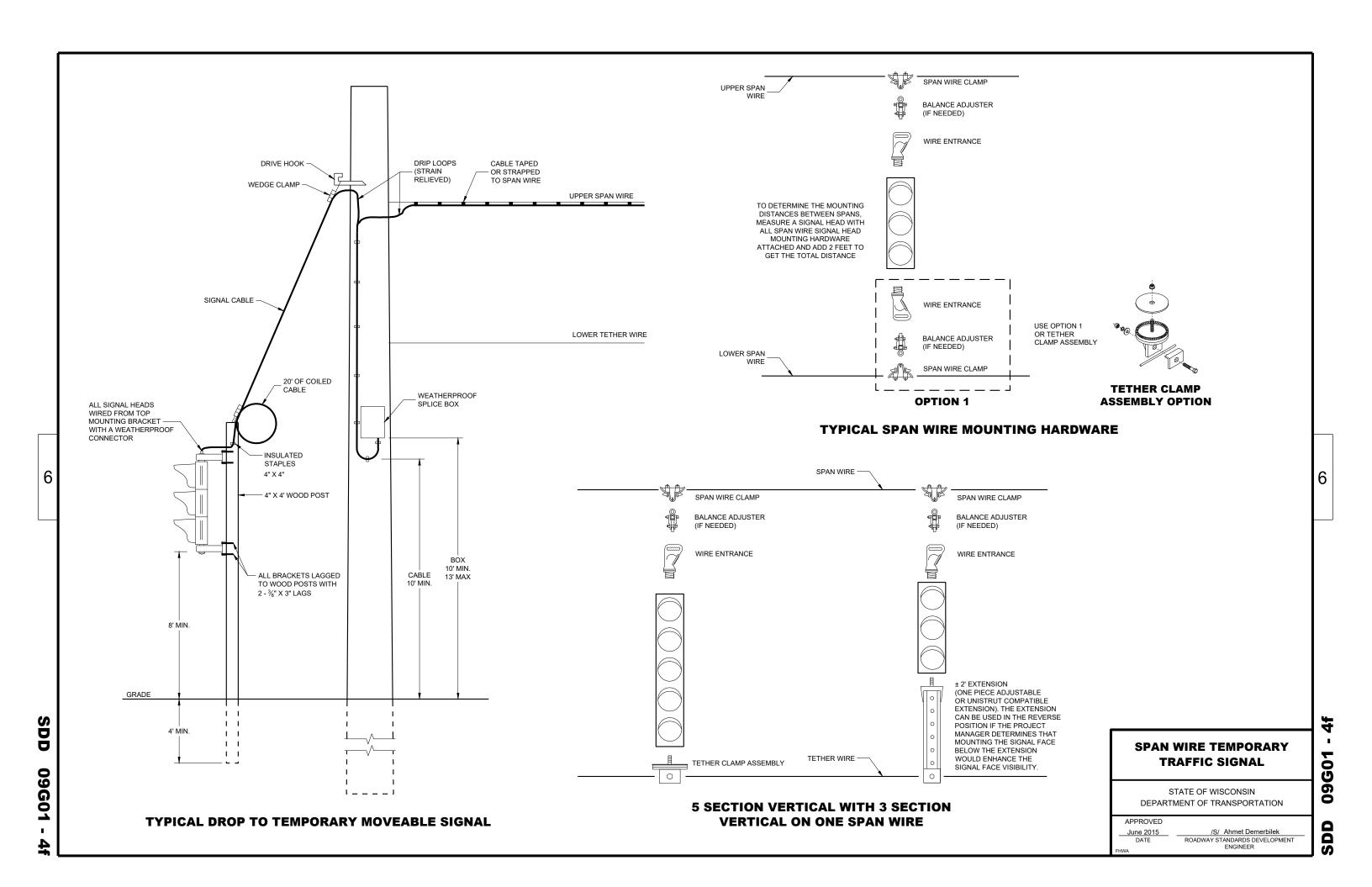
DATE

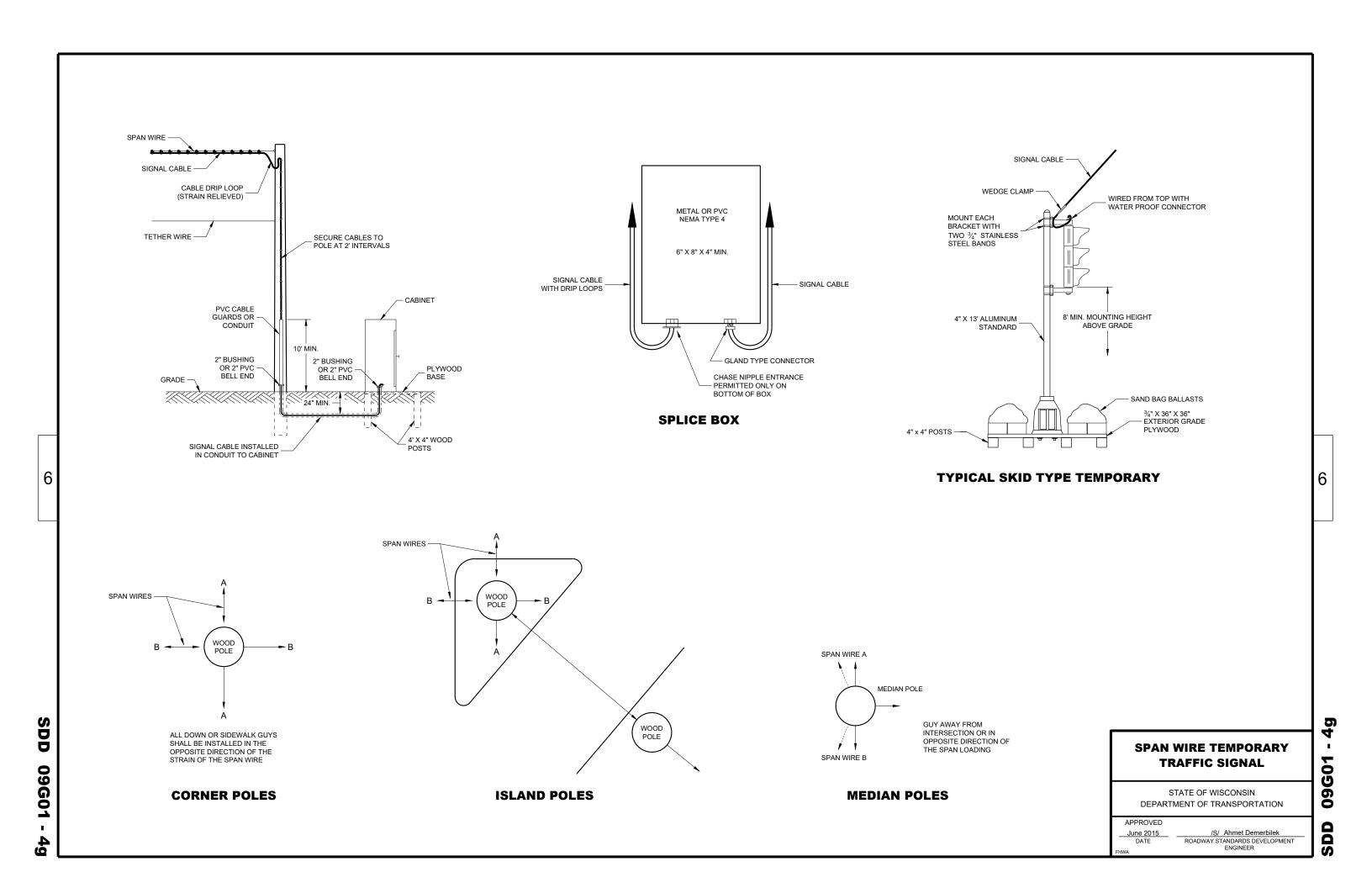
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGINEER

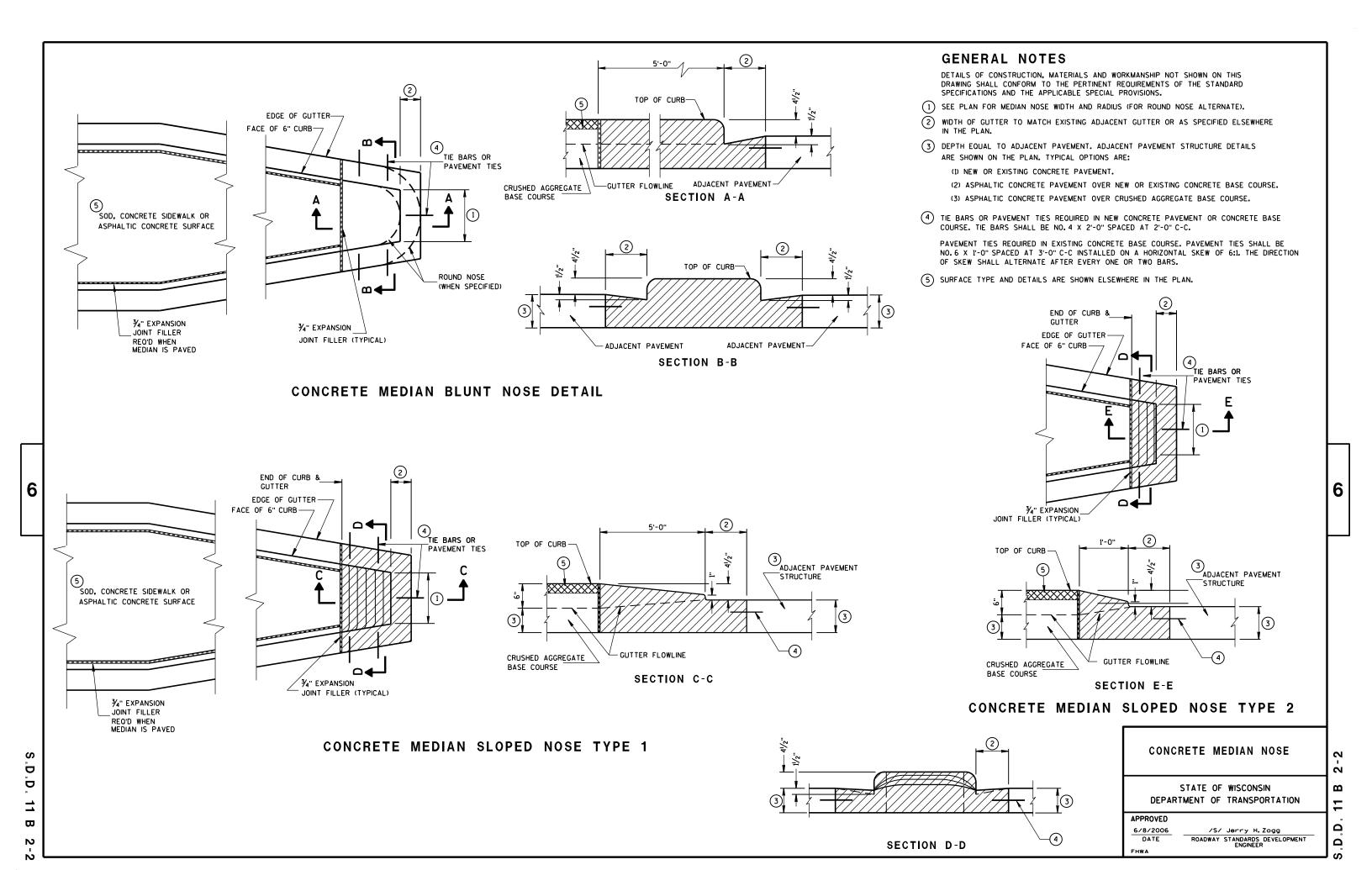
SDD09G01 - 04c

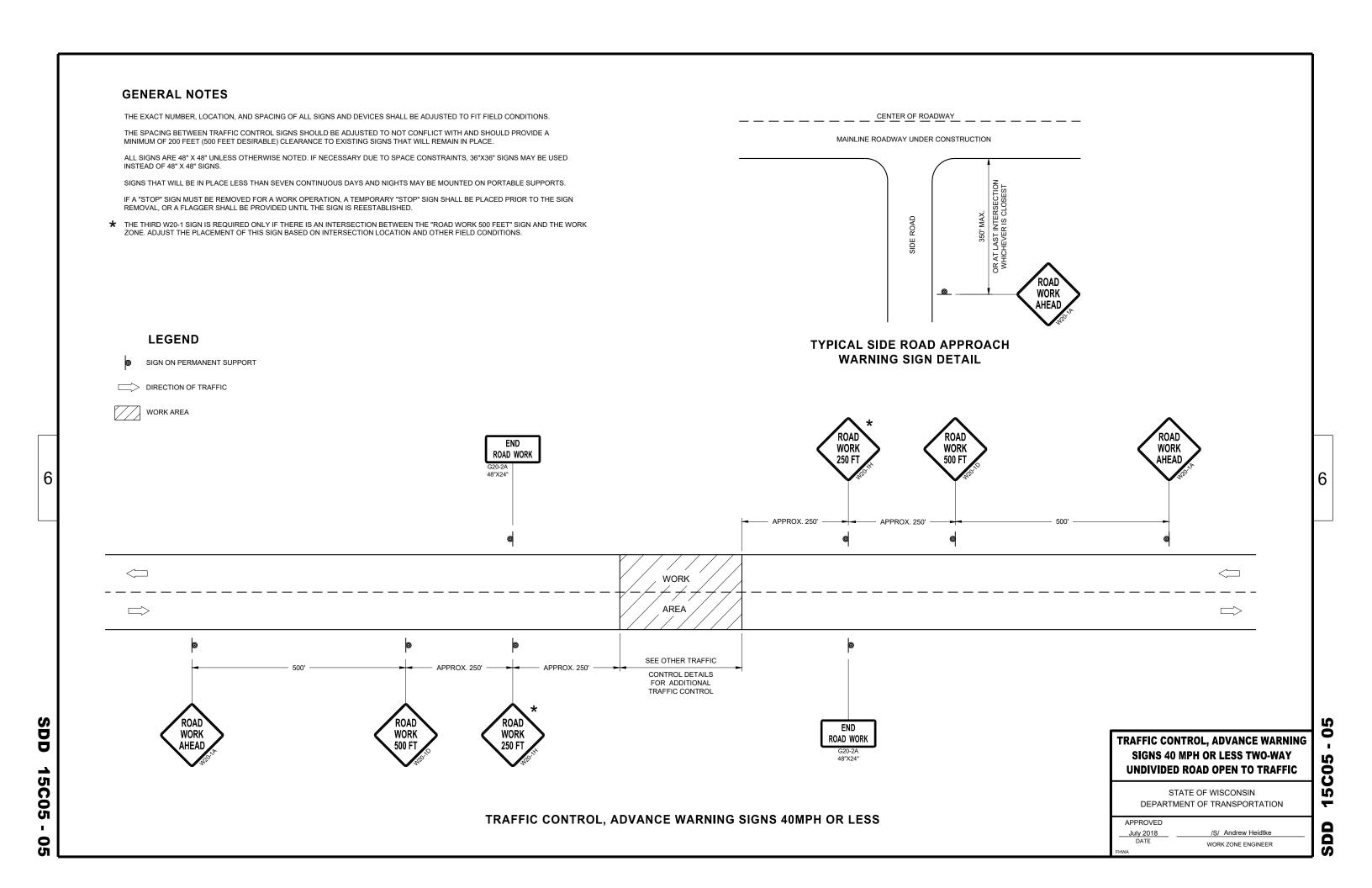


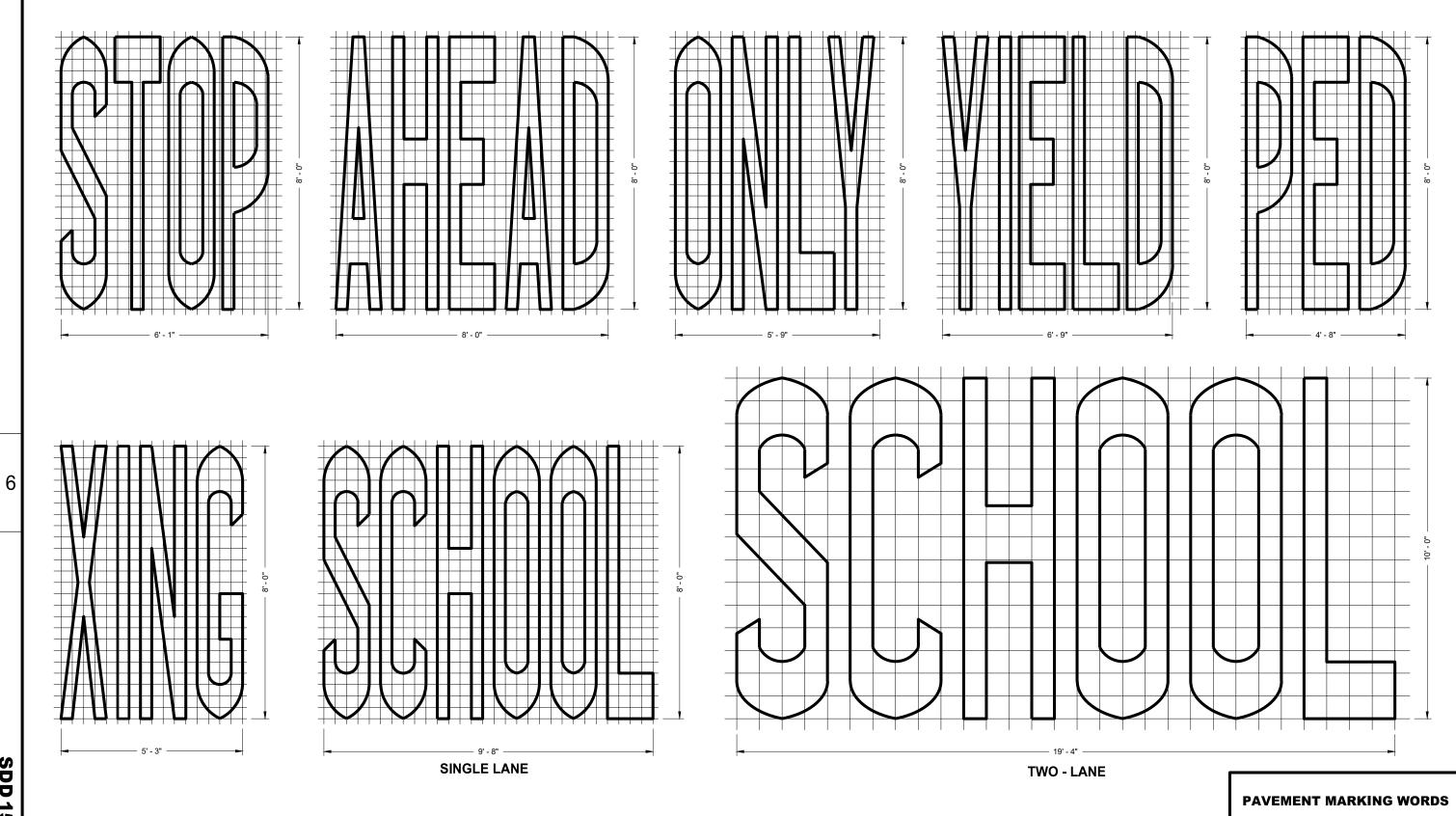












**SDD 15C07** 15b

### **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

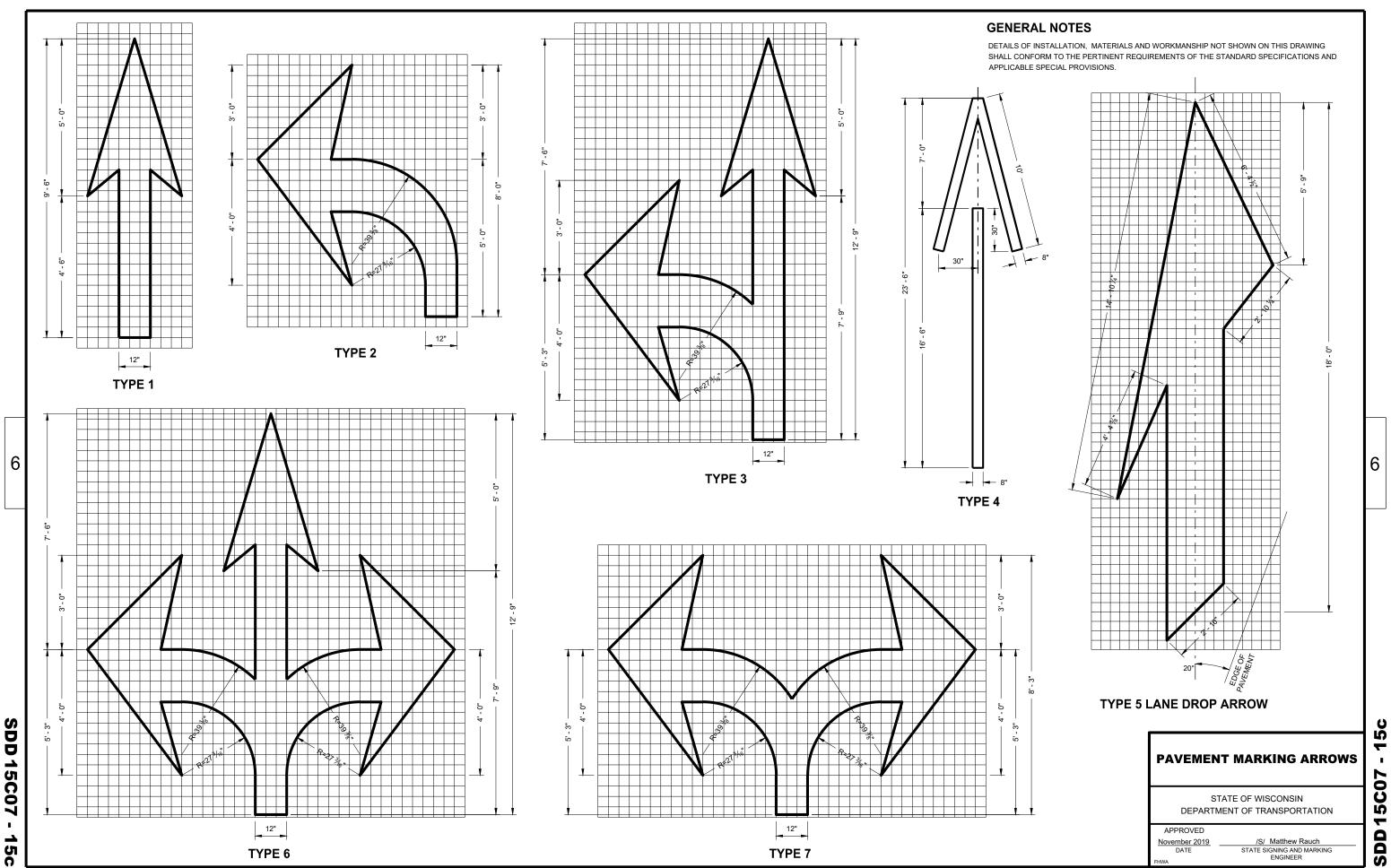
APPROVED

November 2019 \_\_\_\_ /S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

6

**5**b

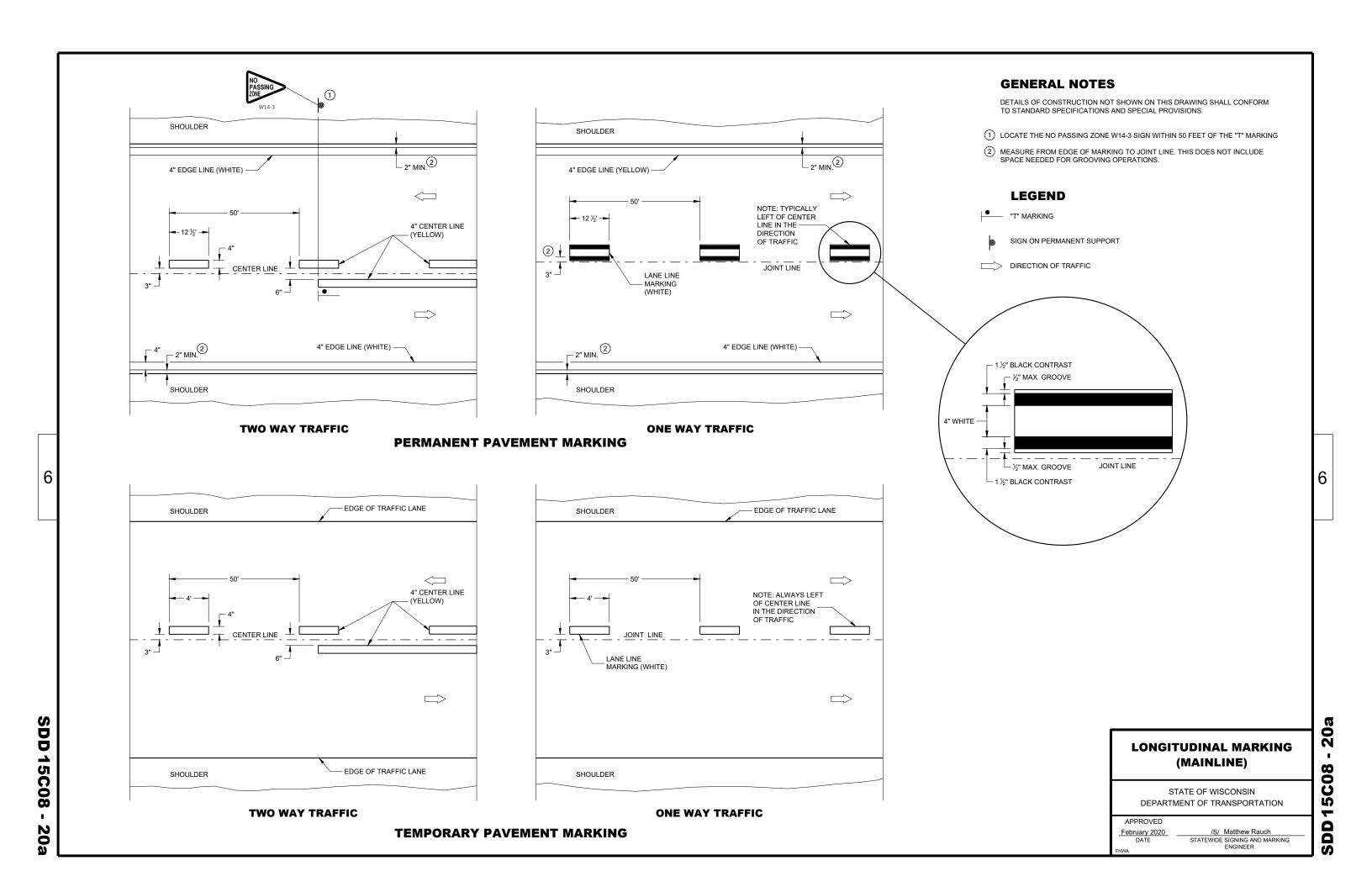
**SDD15C07** 

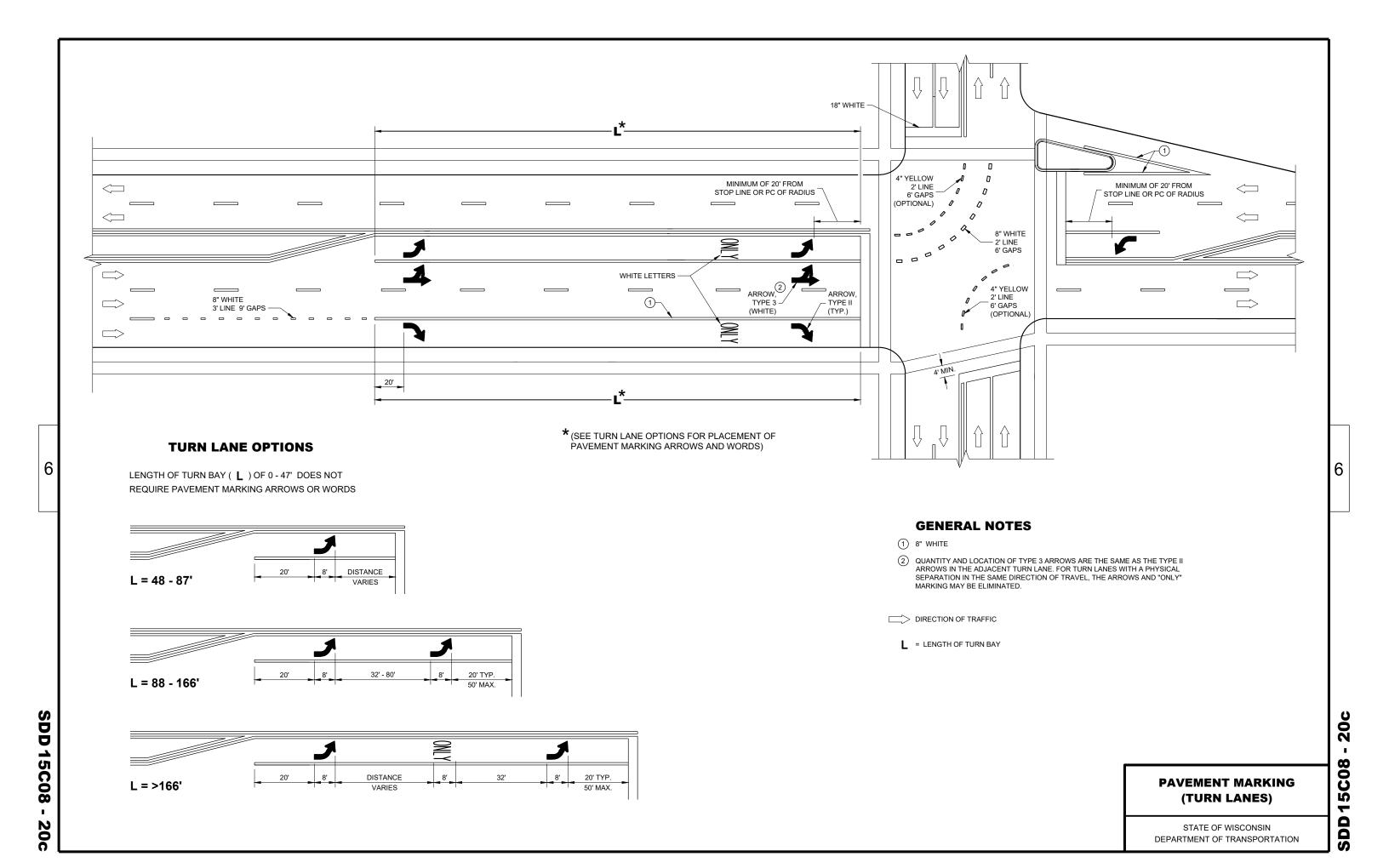


TYPE 7

TYPE 6

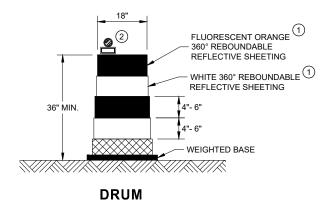
SDD

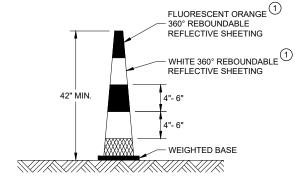




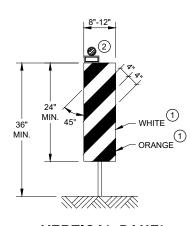
#### **GENERAL NOTES**

- (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.

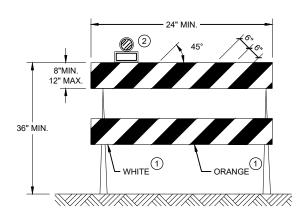




**42" CONE** DO NOT USE IN TAPERS ½ SPACING OF DRUMS

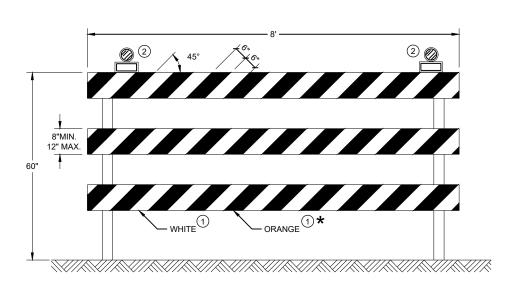


**VERTICAL PANEL** THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



#### **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
EHWA.	

RUMBLE

STRIPS

WORK

#### **GENERAL NOTES FLAGGING LEGEND** DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH SIGN ON PORTABLE OR PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. **SIGN AND TEMPORARY RUMBLE** STRIP ARRAY SPACING TABLE 5' MIN BE SPEED LIMIT SPACING "A" USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A" 35-40 MPH STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

#### TRAFFIC CONTROL FOR LANE CLOSURE WITH **FLAGGING OPERATION**

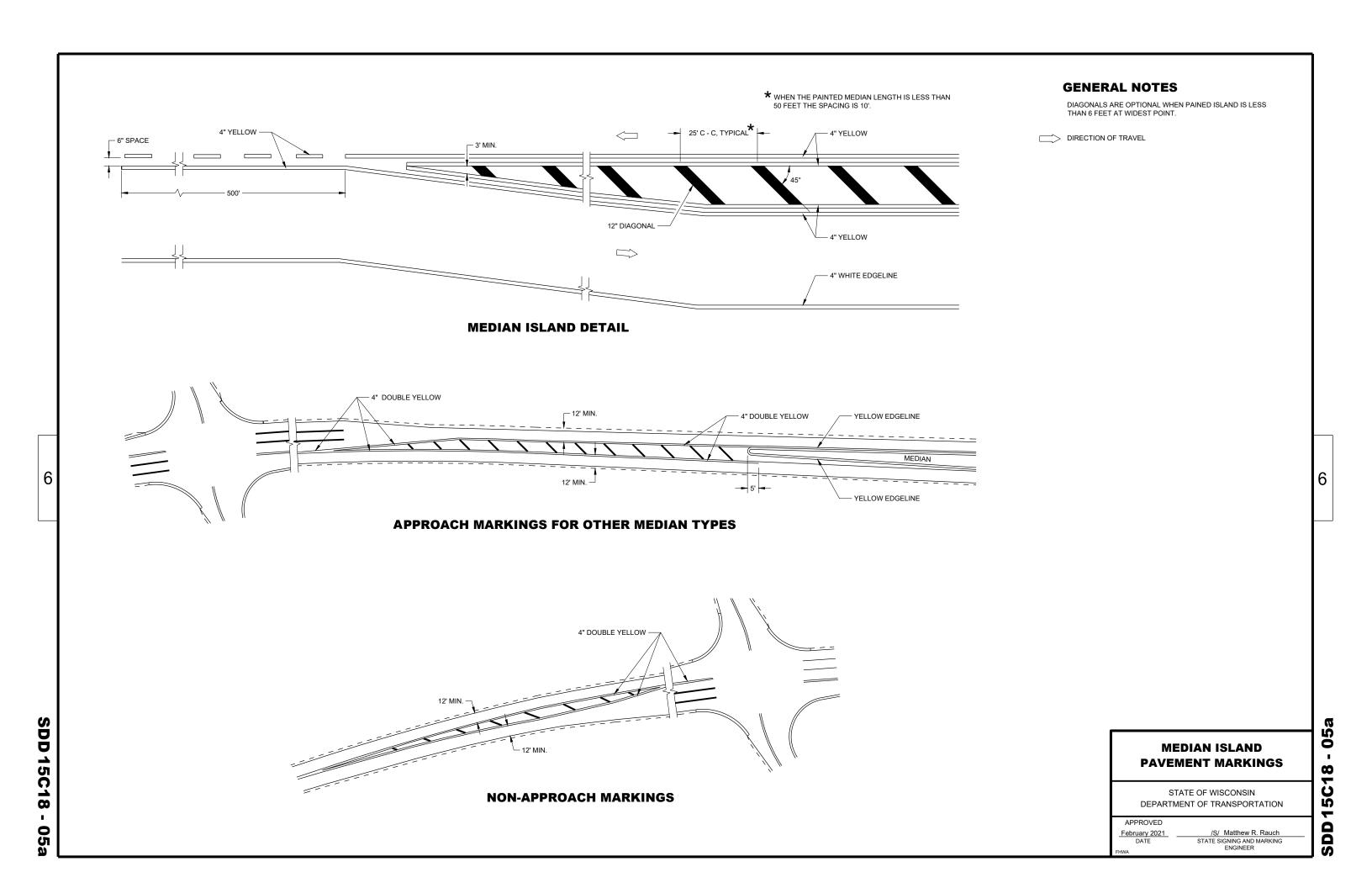
2

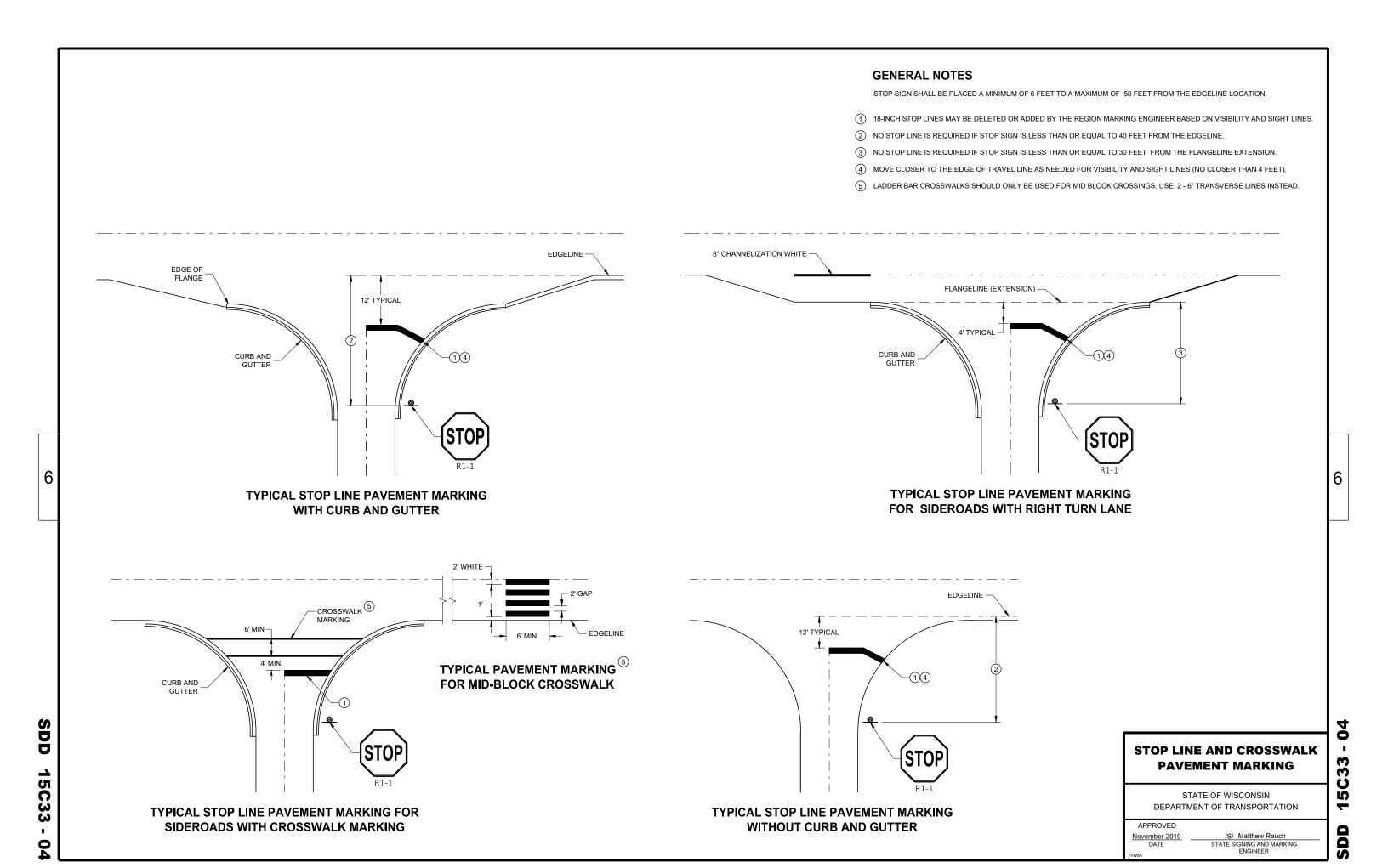
S

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2019	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

#### TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION





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, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

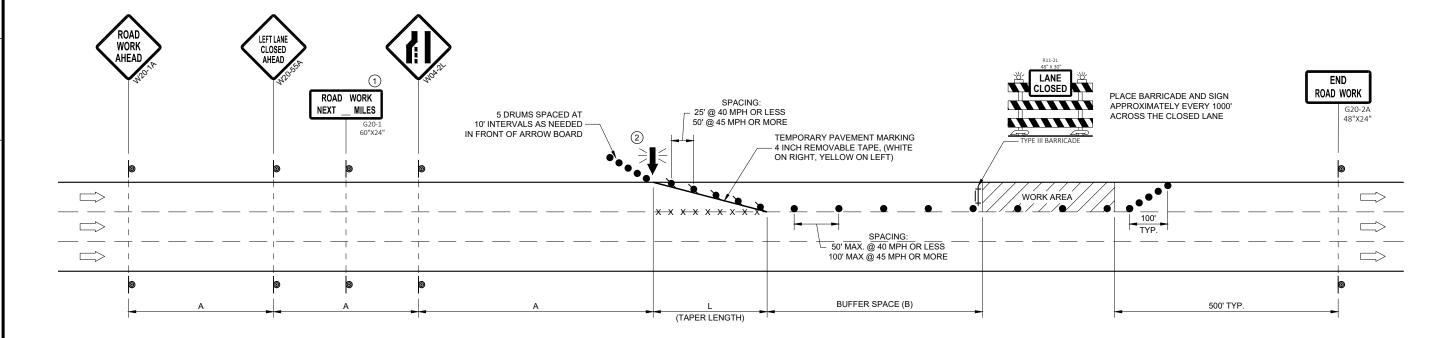
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

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.
- (2) 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' 40 170' 350 320' 45 500' 540' 220'

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2020

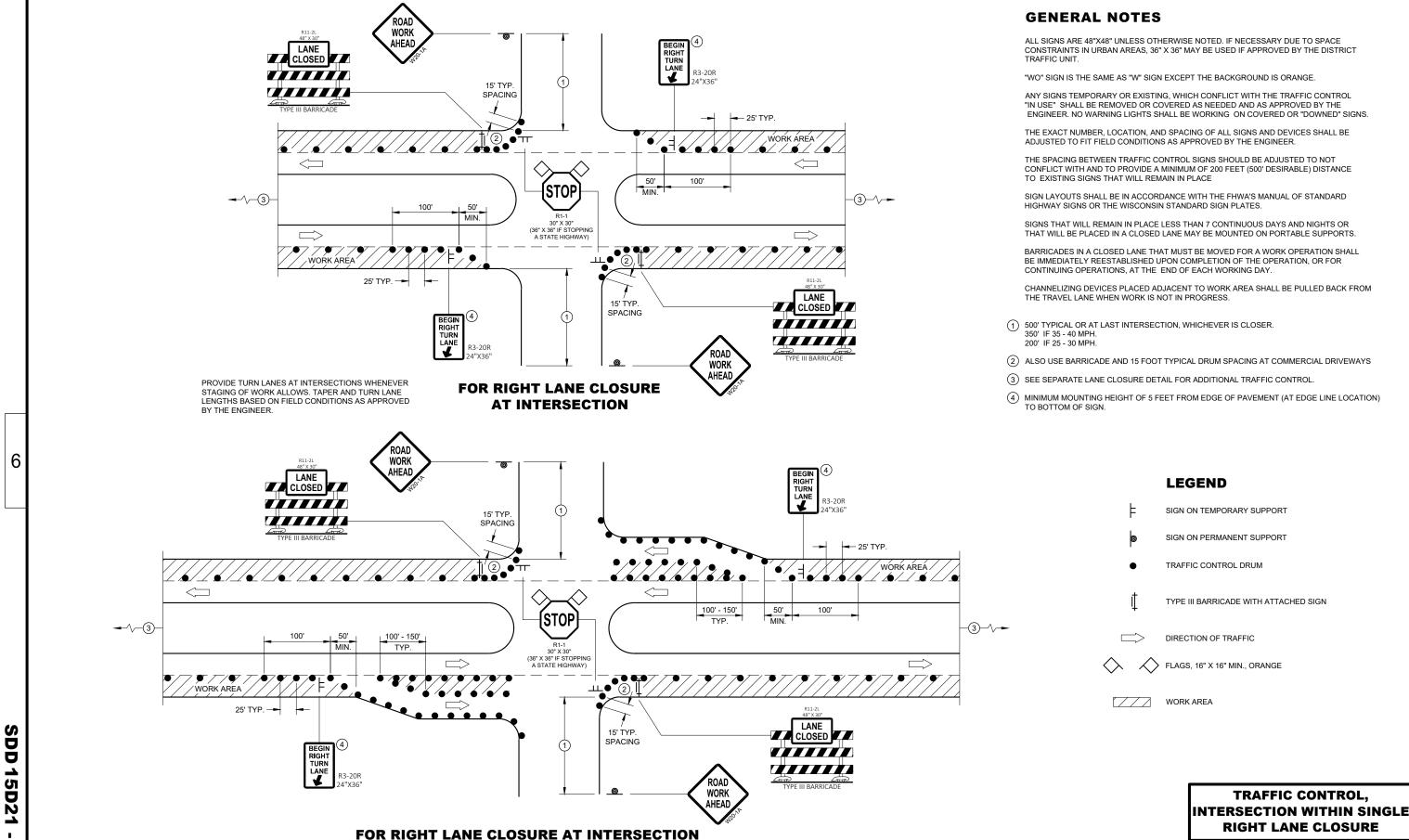
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

6

**SDD 15D20 - 0** 

SDD 15D20 - 05a



(WITH RIGHT TURN BAY OPEN)

0

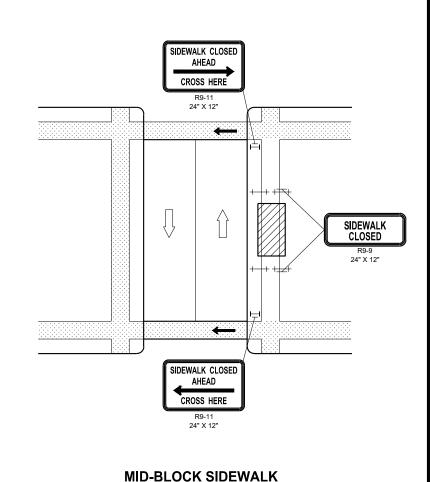
0

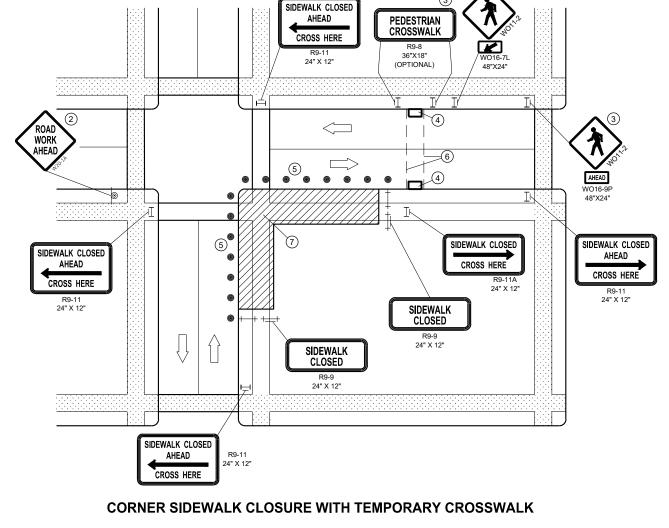
<u>1</u>

S

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

**6**2





#### **GENERAL NOTES**

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

**CLOSURE** 

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

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

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

- 1 IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
- (2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
- (3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK
- (4) TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.
- (5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
- 6 TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
- (7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

### LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)

+ + TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)

UNDER PEDESTRIAN TRAFFIC

WORK AREA

PEDESTRIAN CHANNELIZATION DEVICE

DIRECTION OF TRAFFIC

# TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

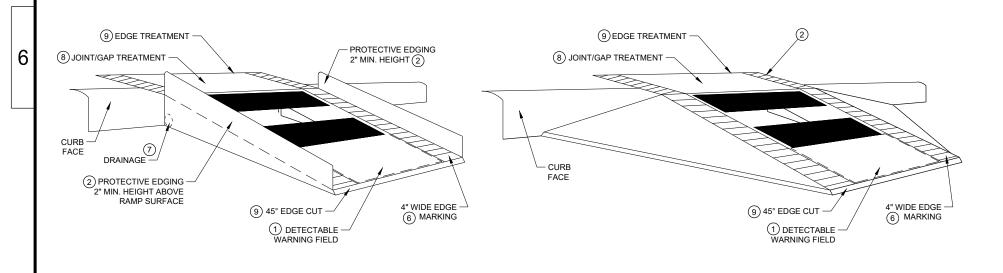
4" WIDE EDGE MARKING (6)

#### **TEMPORARY CURB RAMP PARALLEL TO CURB**

CROSS SLOPE 2% MAX. (4)

ABOVE RAMP SURFACE (2)

WITH SIDE APRON



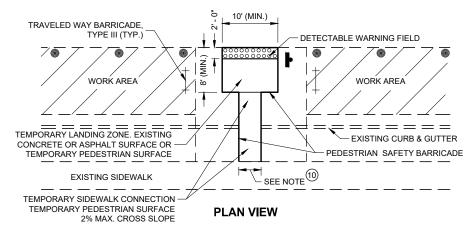
#### TEMPORARY CURB RAMP PERPENDICULAR TO CURB

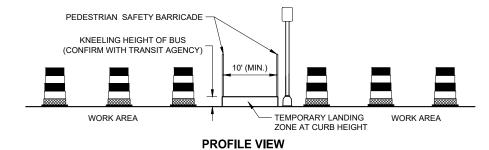
#### **GENERAL NOTES**

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

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

- (1) CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
- 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) CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
- (5) CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- (6) THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
- 7) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- (8) LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
- (9) CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
- (1) 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.





### **TEMPORARY BUS STOP PAD**

#### LEGEND



## TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

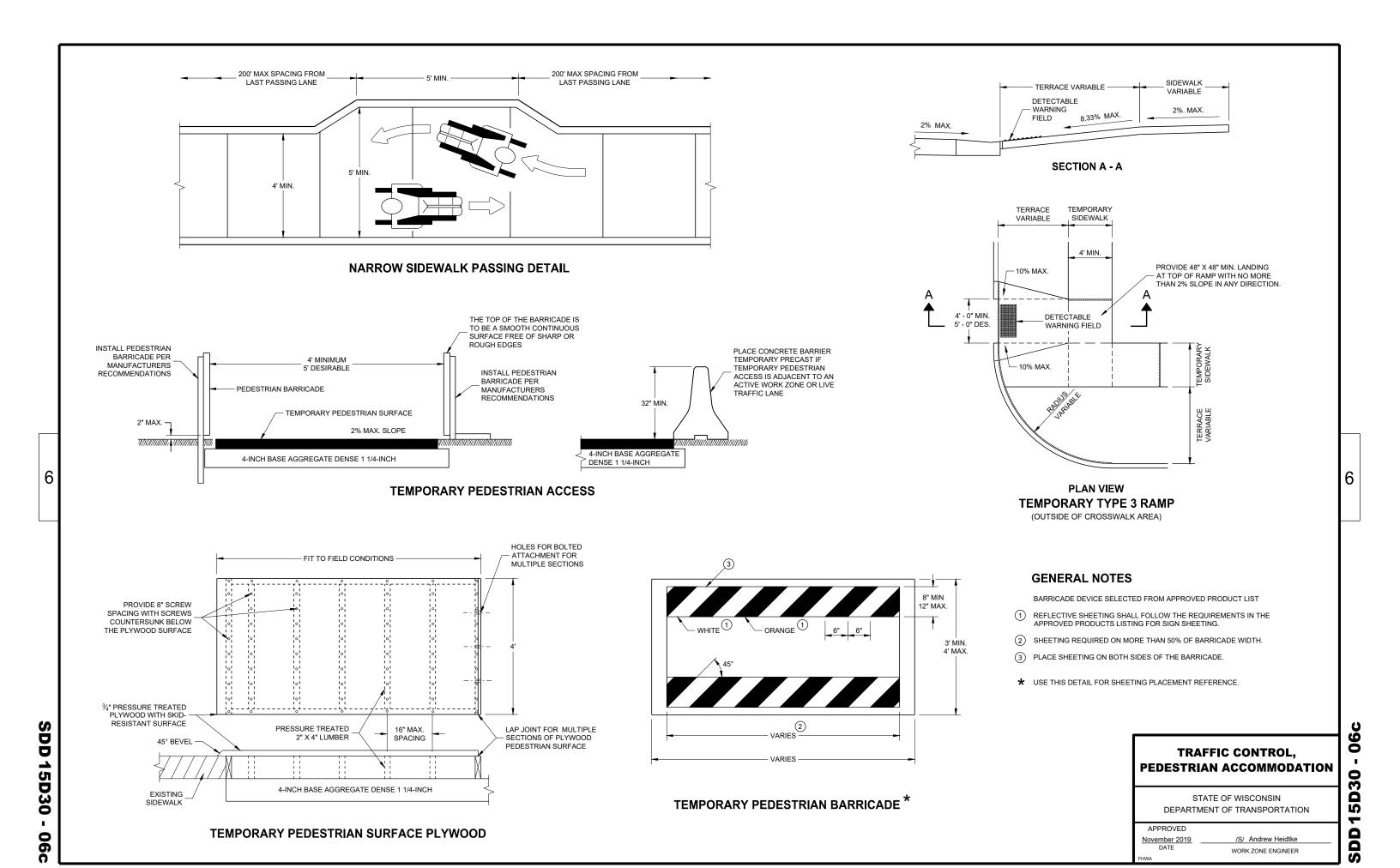
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

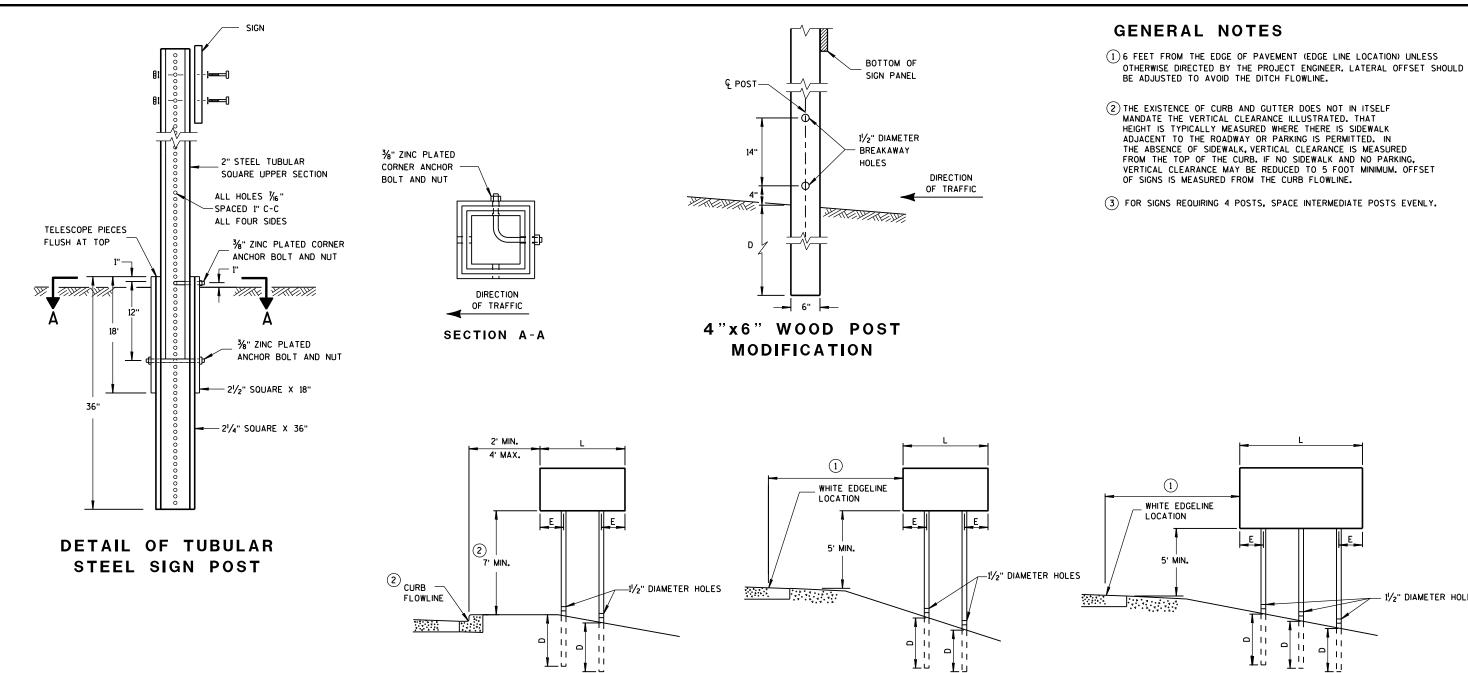
(5) CLEAR SPACE

(9) EDGE TREATMENT

WITH PROTECTIVE EDGE

DD 15D30 - 06





TUBULAR STEEL POSTS

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

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

URBAN AREA

RURAL AREA

## POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH** 

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

4" X 6" WOOD POST

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

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

-11

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

D D 15 D  $\infty$ 

6

Δ Ω Ω

 $\infty$ 

6

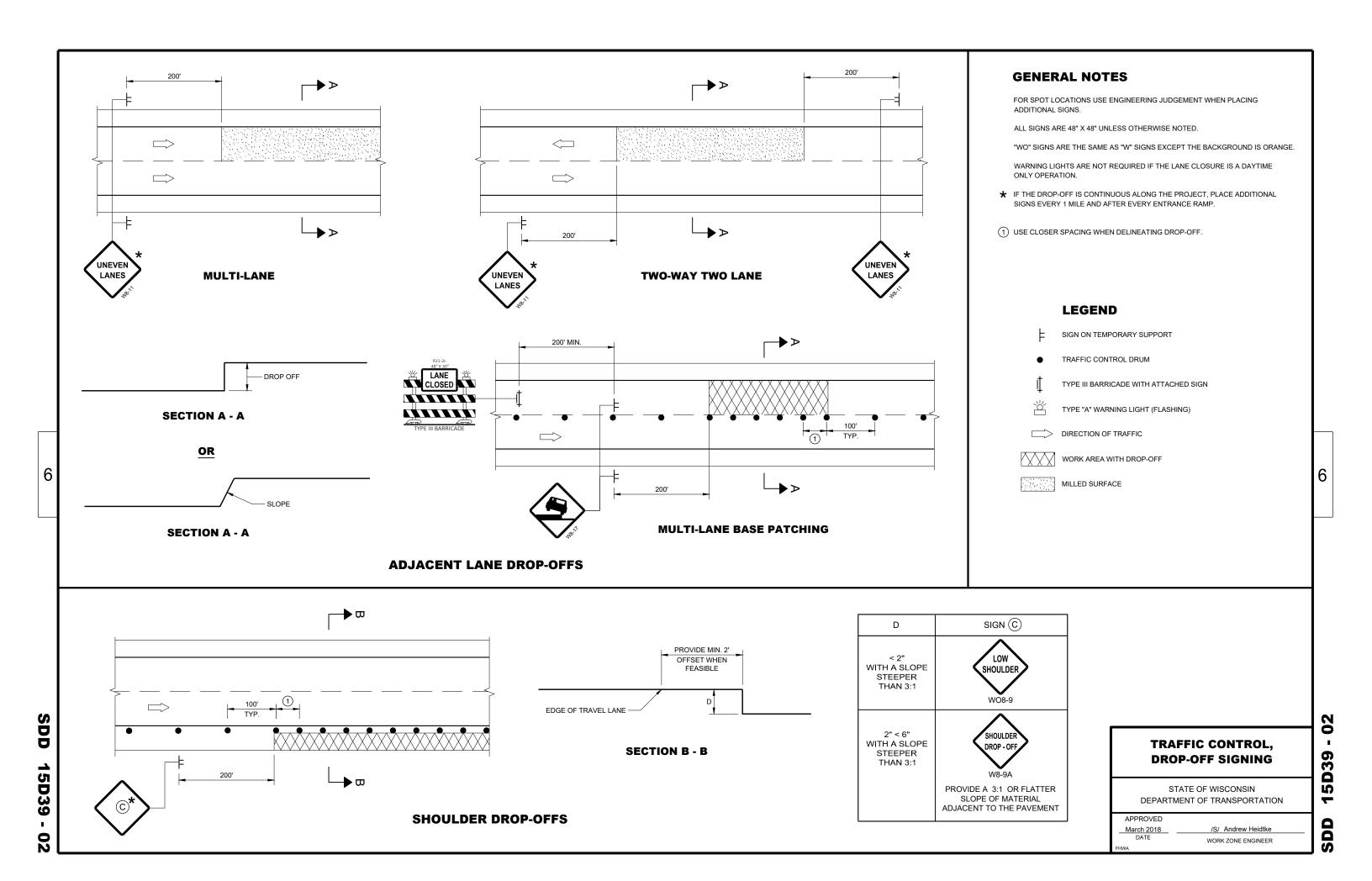
- 11/2" DIAMETER HOLES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017 DATE



DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED. ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN

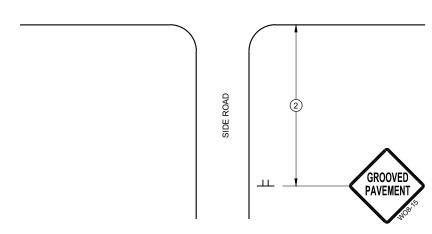
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED

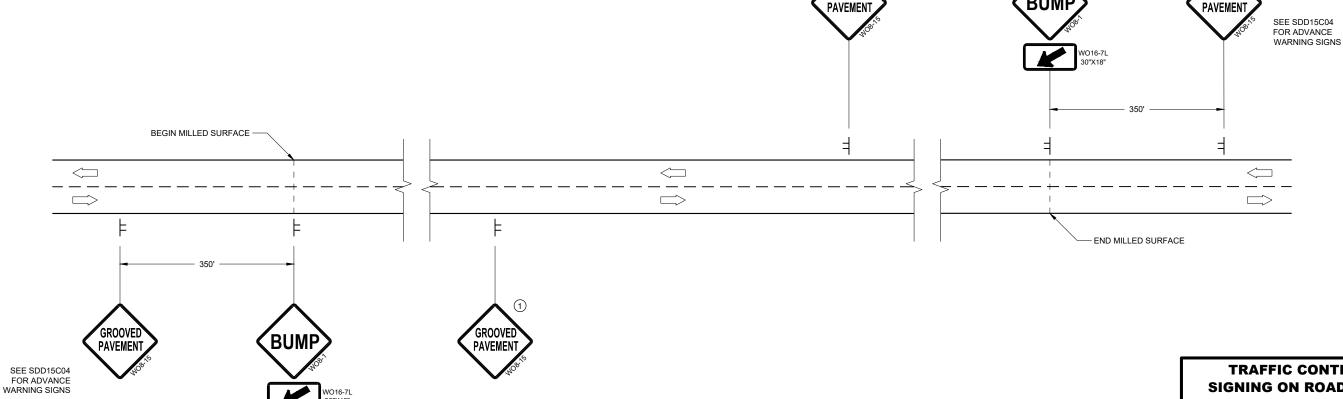
SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

- (1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
- (2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

DIRECTION OF TRAFFIC



### **TYPICAL SIDE ROAD APPROACH SIGN DETAIL**



#### **DETAIL FOR SIGNING ON MILLED SURFACES**

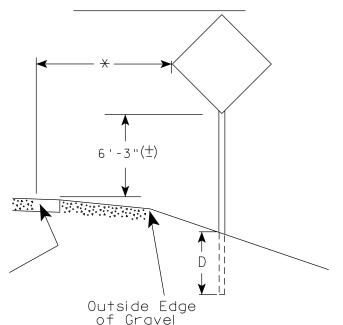
#### TRAFFIC CONTROL, **SIGNING ON ROADWAYS WITH MILLED SURFACES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION Ò D

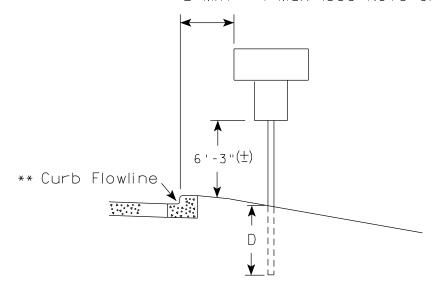
APPROVED February 2020 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER 2' Min - 4' Max (See Note 6)

The state of t

White Edgeline Location



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



White Edgeline Location

geline

Outside Edge
of Gravel

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

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.

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.

2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

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

SHEET NO:

Ε

PROJECT NO:

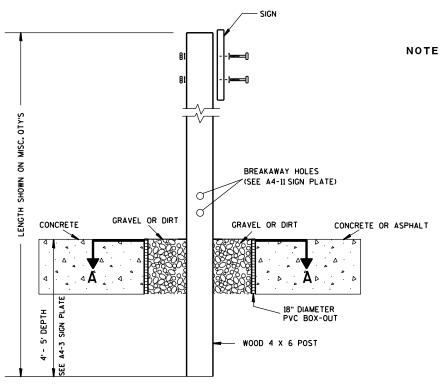
FILE NAME: C:\CAEfiles\Projects\tr\_stdplate\A43.dgn

measured from the flow line.

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

PLOT BY : mscj9h

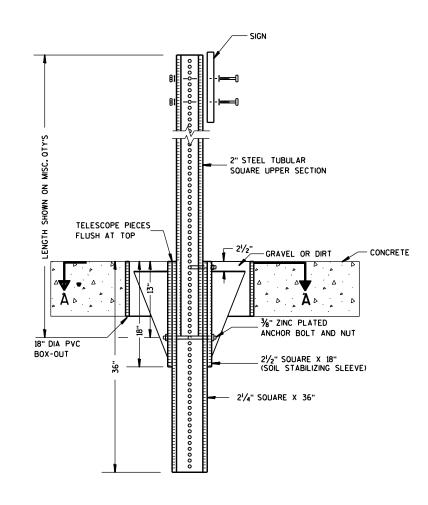
PLOT NAME :



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



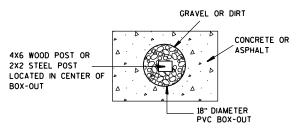
## ELEVATION VIEW

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

ELEVATION VIEW

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

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE : 13.659812:1.000000

APPROVED

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

## POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

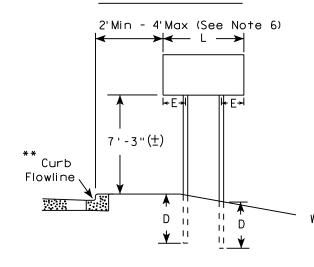
For State Traffic Engineer

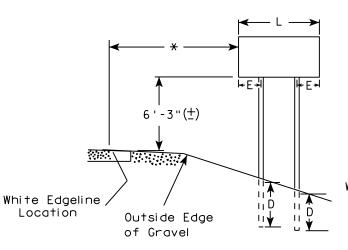
DATE 8/21/17 PLATE NO. A4-4.15

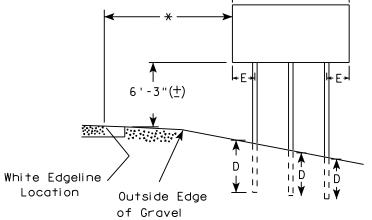
SHEET NO:

## URBAN AREA

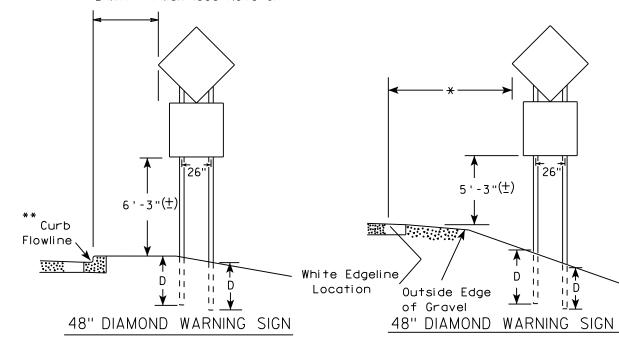
## RURAL AREA (See Note 3)







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



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

HWY:

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

COUNTY:

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

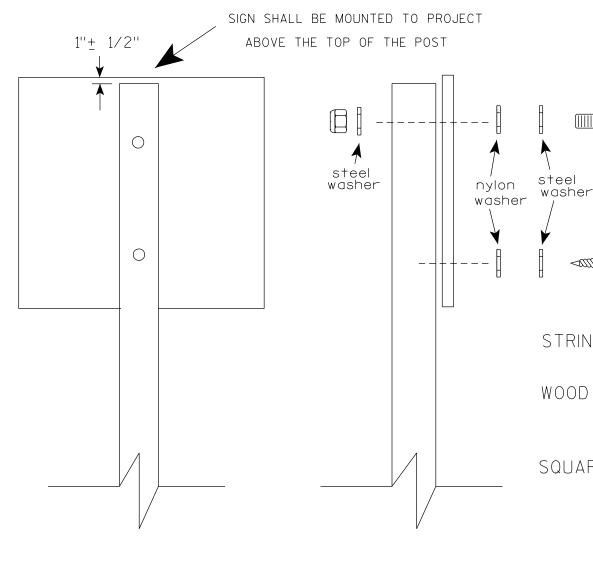
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

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

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

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

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 3/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ " STEEL 1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

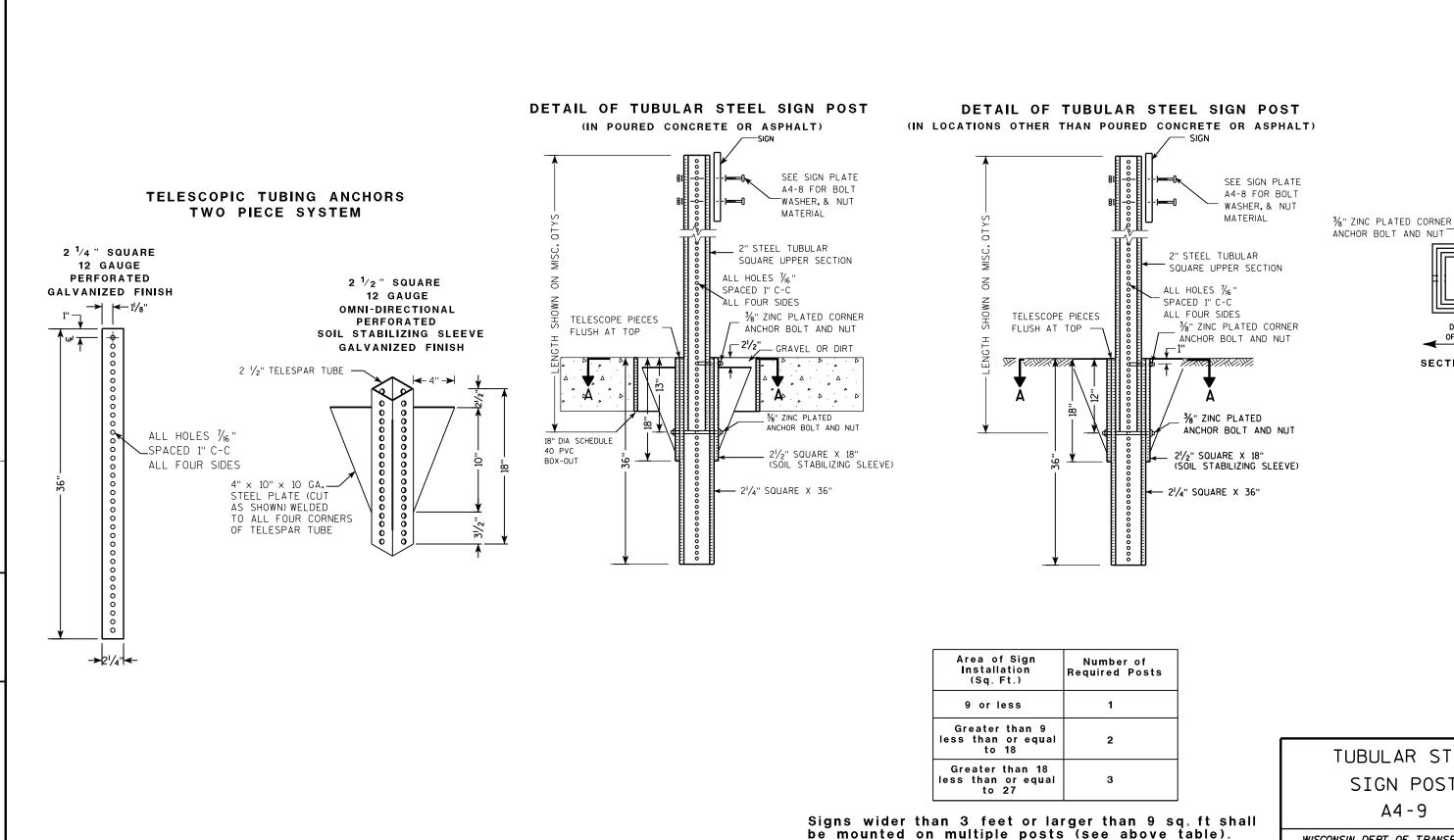
PLATE NO. <u>A4-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

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

SHEET NO:

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

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

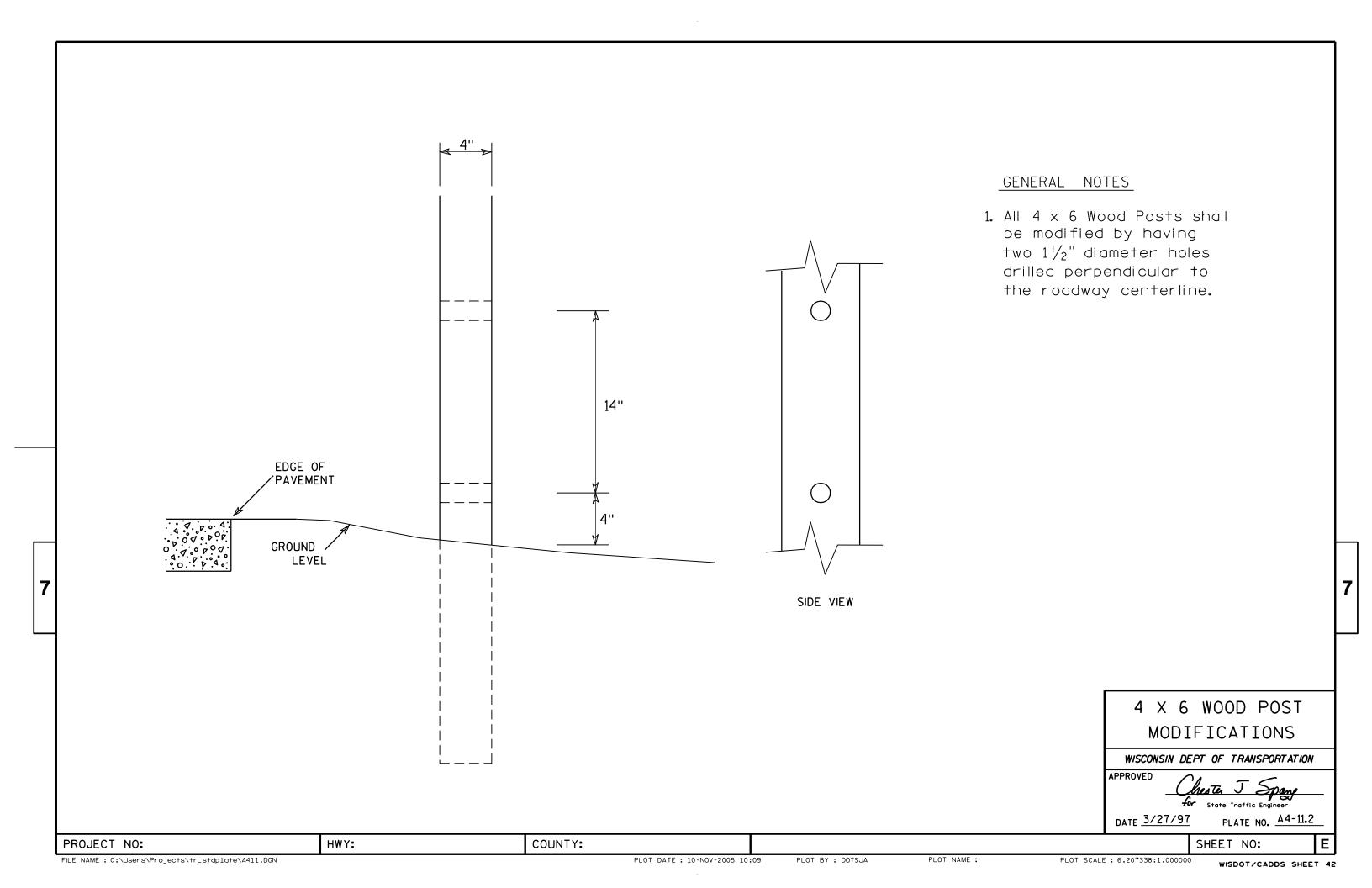
COUNTY:

PLOT NAME :

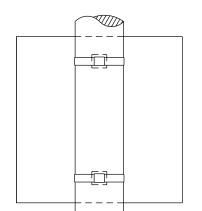
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

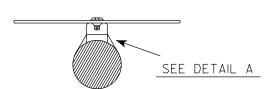
SECTION A-A

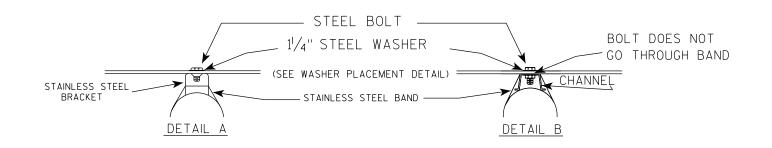


## BANDING

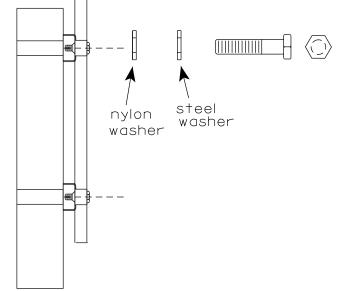


SINGLE SIGN





# WASHER PLACEMENT



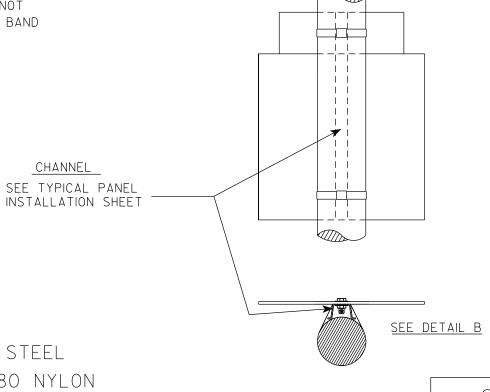
WASHERS (ALL POSTS) -

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

#### GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be  $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

## "J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

State Traffic Engineer DATE 6/10/19

PLATE NO. A5-9.4

Ε

HWY:

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

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

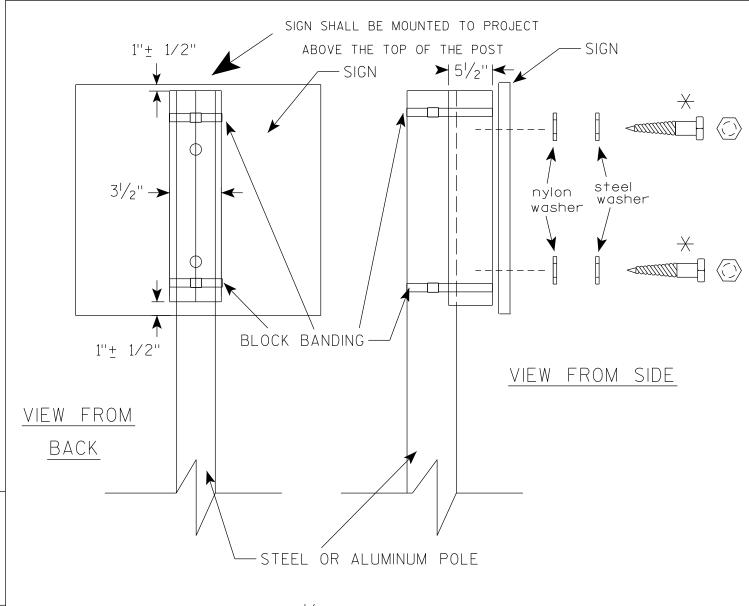
FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A59.dgn

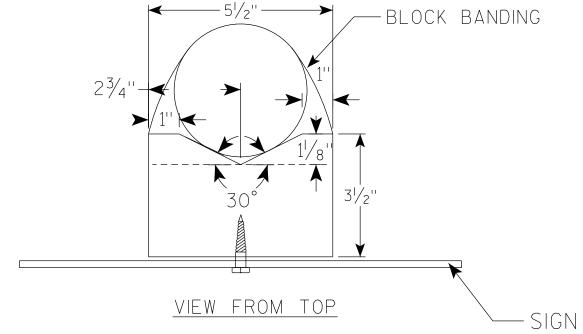
PROJECT NO:

PLOT BY: mscj9h

CHANNEL

SEE TYPICAL PANEL





## GENERAL NOTES

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

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

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

BLOCK BANDING DETAIL ( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

Matthew R

APPROVED

For State Traffic Engineer

SHEET NO:

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

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

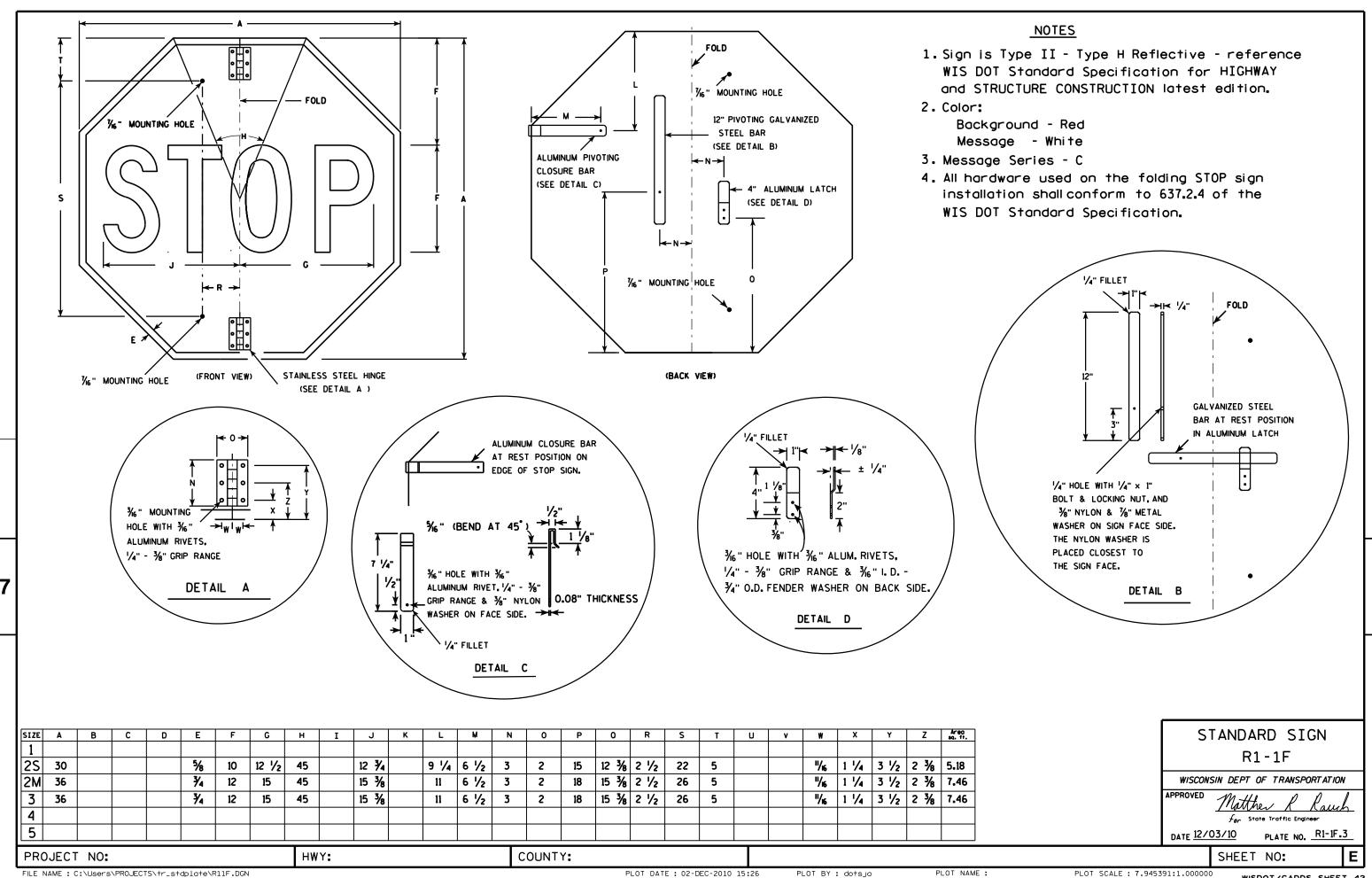
PROJECT NO:

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

PLOT DATE: 10-JUN 2019 4:15

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42

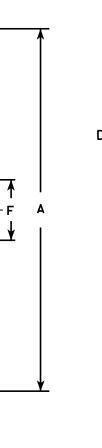


**NOTES** 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. 2. Color: Background - White Message - Black 3. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded. 5. The 6" border is non-reflective black. **←**E → "BLACK BORDER" R3-6V STANDARD SIGN R3-6V 11 3/4 11 1/2 7 13 1/4 2 3/8 36 42 48 14.0 2M WISCONSIN DEPT OF TRANSPORTATION 11 3/4 11 1/2 13 1/4 2 3/8 36 42 48 14.0 APPROVED 3 4 For State Traffic Engineer 5 DATE 3/17/2011 PLATE NO. R3-6V.2 HWY: COUNTY: PROJECT NO: SHEET NO: PLOT NAME :

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

Background - White Message - Black

- 3. Message Series Line 1 is Series B. Line 2 is Series C. Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



C RIGHT LANE R3-7R

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Areg sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 %	4 1/4	4	2 1/2	8  %	9 3/4	3/4	1 %	8 %	1 %	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 %	4 1/4	4	2 1/2	8	9 3/4	3/4	1 %	8 %	1 %	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 %	4 1/4	4	2 1/2	8  %	9 3/4	3/4	1 %	8 %	1 %	5/8		6.25
3	36		1 %	5/8	3/4	6	9 %	2	1 1/8	8 3/4	9	13 ½	3 %	1 1/2	12 1/2	5	5	3	10 %	12	7∕8	2 1/4	10 %	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 1/8	17 3/4	3 %	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 1/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

COUNTY:

STANDARD SIGN R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

DATE 3/18/2011 PLATE NO. R3-7.3

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R37.DGN

PROJECT NO:

R3-7L

HWY:

PLOT DATE: 18-MAR-2011 09:43

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 7.945391:1.000000

WISDOT/CADDS SHEET 42

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

Background - White Message - Black

- 3. Message Series D
- 4. Use appropriate Letter for Sign Code Each letter added makes sign wider. Example R3-8EAR
- 5. Square footage of sign varies by letters

2 Letters = 7.5 sq ft for Size 2 12.0 sq ft for Size 3

20.0 sq ft for Size 4 or 5

- 3 Letters = 11.25 sq ft for Size 2 18.0 sq ft for Size 3 30.0 sq ft for Size 4 or 5
- 4 Letters = 15.0 sq ft for Size 2 24.0 sq ft for Size 3 40.0 sq ft for Size 4 or 5
- 5 Letters = 18.75 sq ft for Size 2 30.0 sq ft for Size 3 50.0 sq ft for Size 4 or 5
- 6 Letters = 22.5 sq ft for Size 2 36.0 sq ft for Size 3 60.0 sq ft for Size 4 or 5
- 6. When letters C.D.G.H are used on the Left or Right end of the sign the Sq. Ft. changes.

Add the amounts when these letters are used:

1.25 sa ft for Size 2 1.5 sq ft for Size 3 2.0 sq ft for Size 4 or 5 STANDARD SIGN R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew For State Traffic Engineer

SHEET NO:

DATE <u>5/21/19</u> PLATE NO. R3-8.1

(G)

( | | | )

PLOT NAME :

## FILE NAME: C:\CAEfiles\Projects\stdplate\_R38.dgn

PROJECT NO:

(H)

 $(\Delta)$ 

(F)

 $(| \ )$ 

 $(\top)$ 

(F)

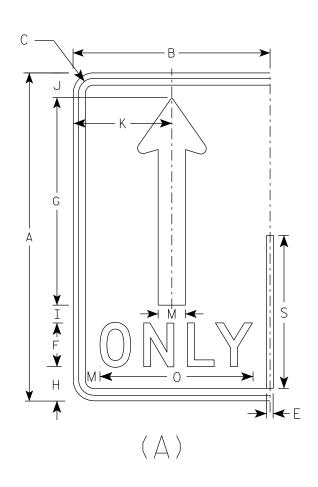
(R)

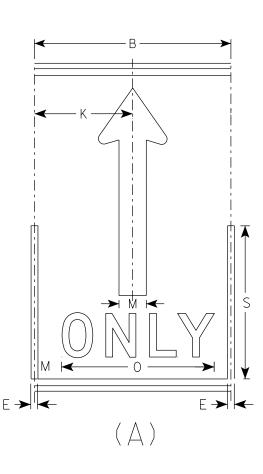
Ε

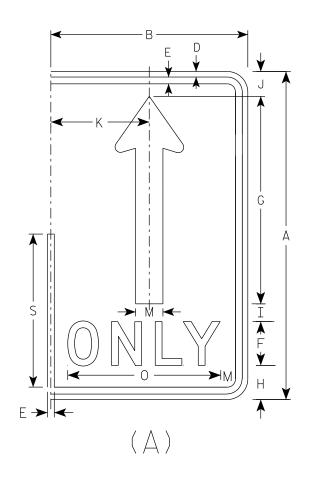
- 1. Sign is Type II Type H Reflective
- 2. Color:

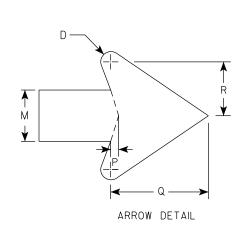
Background - White Message - Black

3. Message Series - D









SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 ¾	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 ¾								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 1/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 1/8	3 %	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN R3-8 (A) Arrow WISCONSIN DEPT OF TRANSPORTATION APPROVED State Traffic Engineer DATE 5/21/19

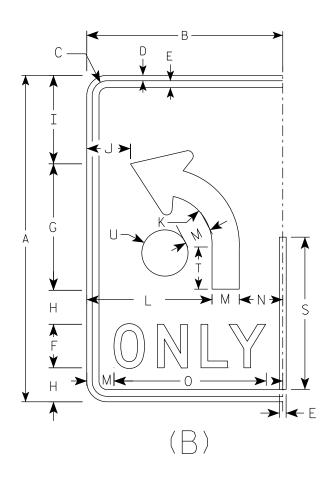
PLATE NO. <u>R3-8.1</u>

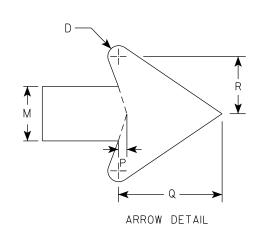
Ε PROJECT NO: HWY: COUNTY: SHEET NO:

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

Background - White Message – Black

Message Series - D





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2	14	3 1/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2	14	3 1/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

APPROVED Matther  $f_{or}$  State Traffic Engineer

WISCONSIN DEPT OF TRANSPORTATION

STANDARD SIGN

R3-8 (B) Arrow

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

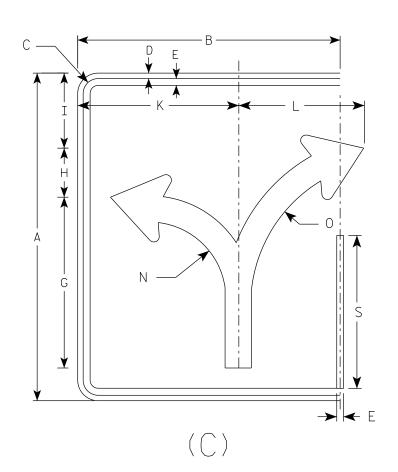
PLOT NAME :

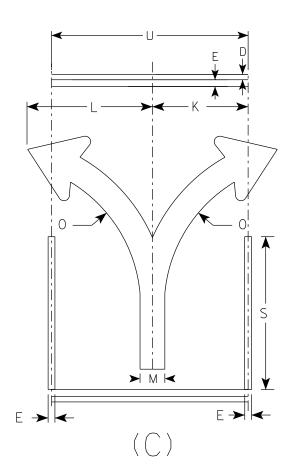
WISDOT/CADDS SHEET 42

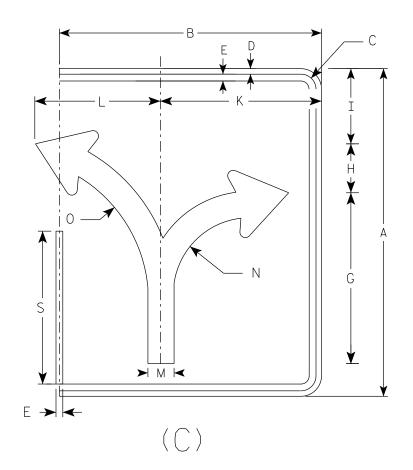
- 1. Sign is Type II Type H Reflective
- 2. Color:

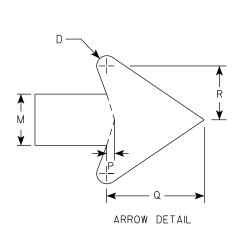
Background - White Message - Black

3. Message Series - None









																											ENDS	MIDDLE
SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Ρ	Q	R	S	T	U	٧	W	X	Υ	Z	Area sq. ft.	Area sq. ft.
1																												
25	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 %		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 1/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

COUNTY:

STANDARD SIGN R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

 $f_{or}$  State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

HWY:

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

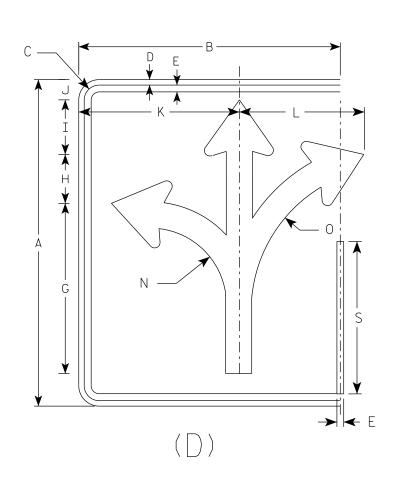
PLOT NAME :

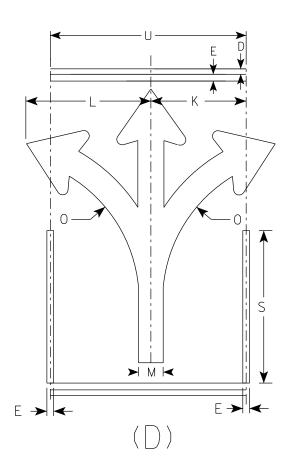
- 1. Sign is Type II Type H Reflective
- 2. Color:

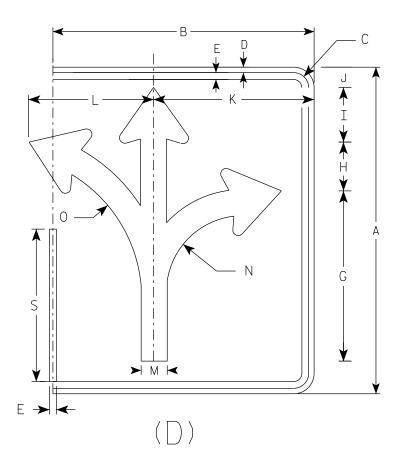
Background - White Message - Black

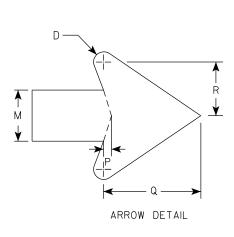
3. Message Series - None

ENDS MIDDLE









SIZE	Α	В	С	D	E	F	G	Н	I	J K	L	М	N	0	Р	Q	R	S	T U	٧	W	Х	Υ	Z	Area sq. ft.	Area sq. ft.
1																										
25	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8 14 3/2	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14	18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 1/8 14 3/2	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14	18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4 17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4	24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8 23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8	30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8 23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8	30						12.0	10.0

COUNTY:

STANDARD SIGN R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rawh

For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO: **E** 

FILE NAME: C:\CAEfiles\Projects\stdplate\_R38.dgn

HWY:

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY : mscj9h

PLOT NAME :

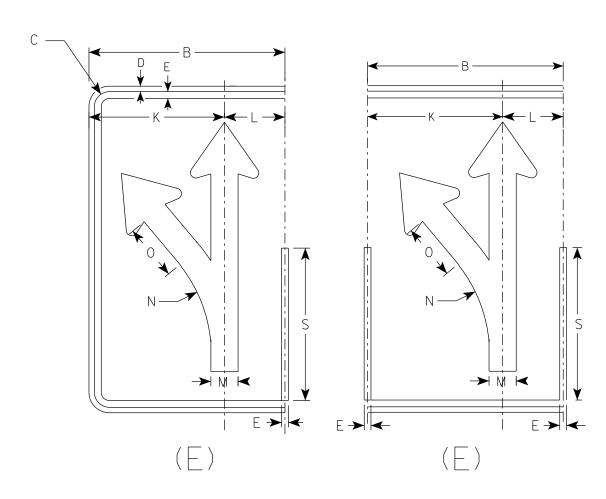
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

| 1

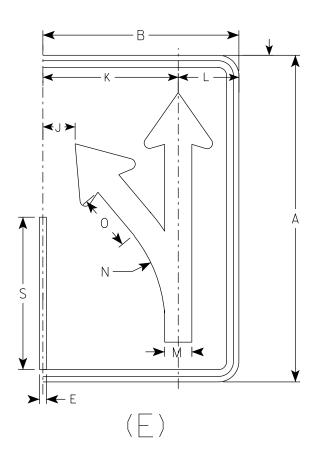
- 1. Sign is Type II Type H Reflective
- 2. Color:

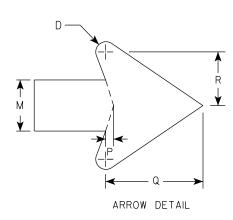
Background - White Message – Black

3. Message Series - None



HWY:





SIZE	А	В	С	D	Е	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	5 %	4	4 1/8	16 1/8	7 3/4	3	15 1/8	6 1/8	1/2	5 3/4		16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

COUNTY:

STANDARD SIGN R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

*for* State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1 Ε SHEET NO:

PLOT NAME :

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

PROJECT NO:

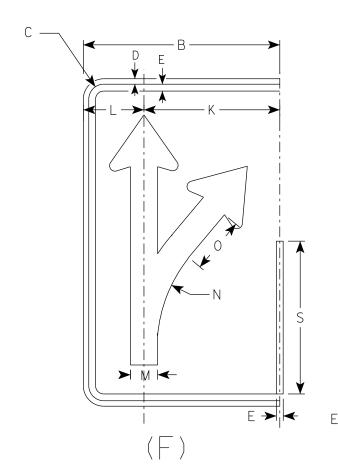
PLOT DATE: 21-MAY 2019 4:38

PLOT BY : mscj9h

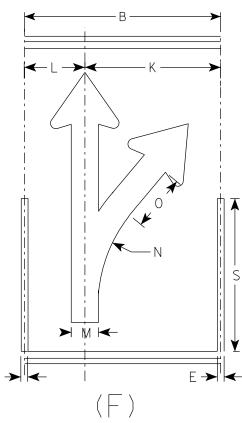
- 1. Sign is Type II Type H Reflective
- 2. Color:

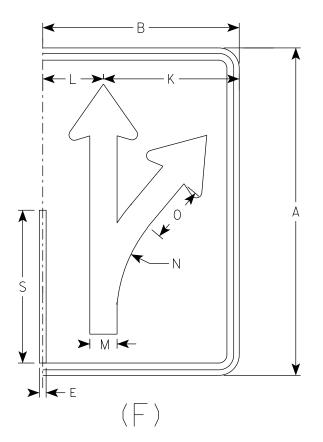
Background - White Message - Black

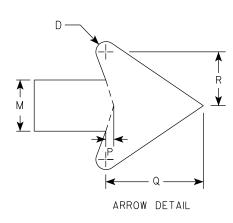
3. Message Series - None



HWY:







SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	5	4	4 1//8	16 1/8	7 3/4	3	15 1/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 %	4 1/4	22 3/8								10.0

COUNTY:

STANDARD SIGN R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

 $f_{or}$  State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

Ε SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

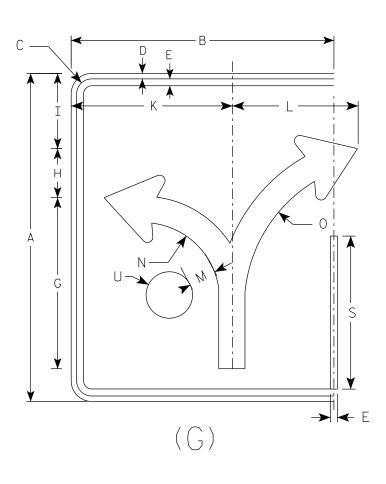
PLOT BY: mscj9h

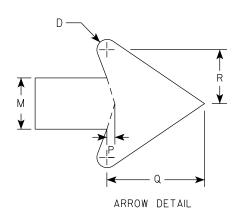
PLOT NAME :

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

Background - White Message - Black

3. Message Series - None





	SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
	1																											
	25	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 1/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
(	2M	30	24	1 3/8	1/2	5/8		15 %	4 1/2	6 %		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
	3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
	4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
	5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

COUNTY:

STANDARD SIGN R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Ra
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO: **E** 

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

PROJECT NO:

HWY:

PLOT DATE: 21-MAY 2019 4:38

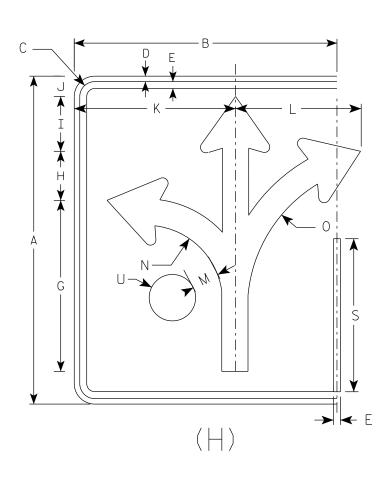
PLOT BY: mscj9h

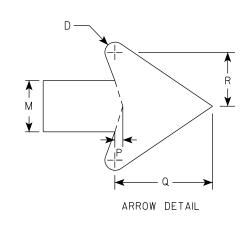
PLOT NAME :

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

Background - White Message - Black

3. Message Series - None





SIZE	А	В	С	D	E	F	G	I	I	J	K	L	М	N	0	Р	a	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	30	24	1 3/8	1/2	5/8		15	4 1/2	5	1 1/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 %	4 1/2	5	1 1/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

COUNTY:

STANDARD SIGN R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Raw For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO: **E** 

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

HWY:

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

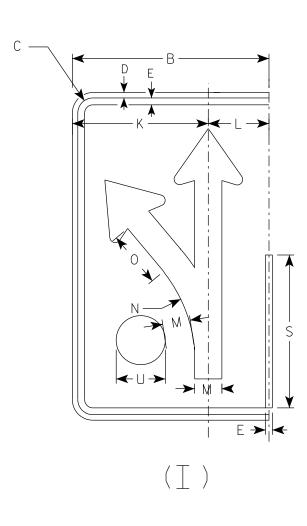
PLOT BY: mscj9h

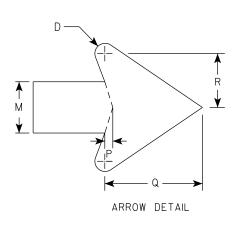
PLOT NAME :

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

Background - White Message - Black

3. Message Series - None





			1						1	1	T			1			T		1					T	1	1	Aron
SIZE	Α	В	C	D	E	F	G	Н	I	J	K	L	M	N	0	P	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	5 %	4	4 1/8	16 1/8	7 3/4	3	15 1/8	6 1/8	1/2	5 3/4	3 1/8	16 ¾		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4 2	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 %	4 1/4 2	22 3/8		3 3/8						10.0

COUNTY:

STANDARD SIGN R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R R

For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO: **E** 

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

HWY:

PROJECT NO:

PLOT DATE : 21-MAY 2019 4:38

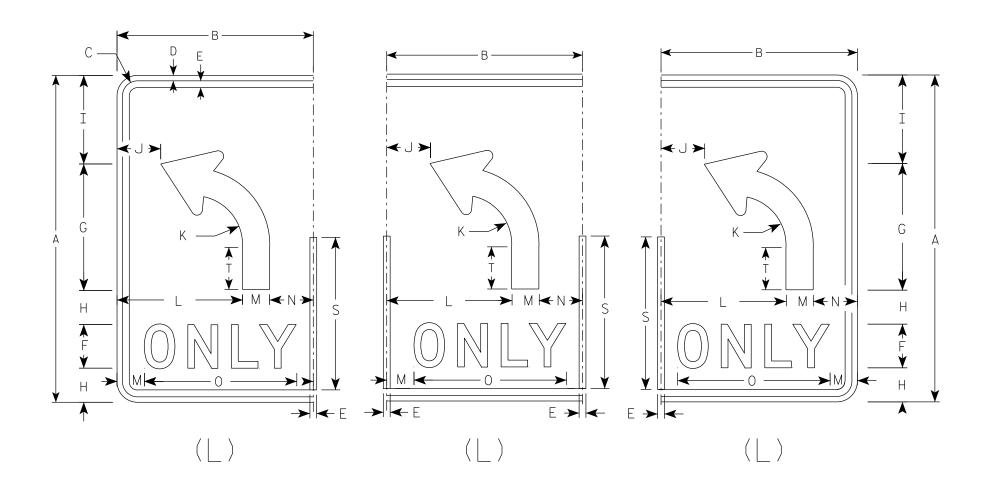
PLOT BY : mscj9h

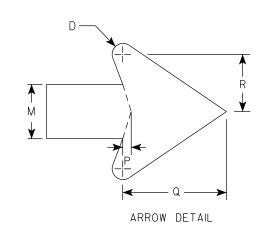
PLOT NAME :

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

Background – White Message – Black

3. Message Series - D





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Area sq. ft.
1																										
25	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 %						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4						10.0
5	48	30	2 1/4	3/4	1	6	18	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4						10.0

STANDARD SIGN R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rawh

For State Traffic Engineer

DATE <u>5/21/19</u> PLATE NO. <u>R3-8.1</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

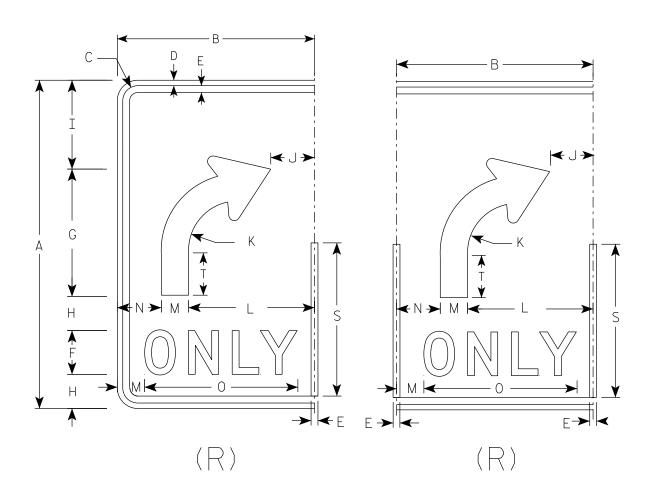
PLOT NAME :

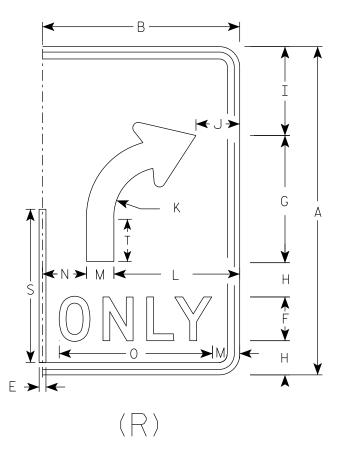
Ε

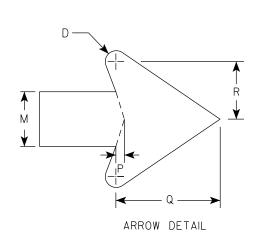
- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

3. Message Series - D







SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 1/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 1/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 %	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED //

For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO:

PROJECT NO:

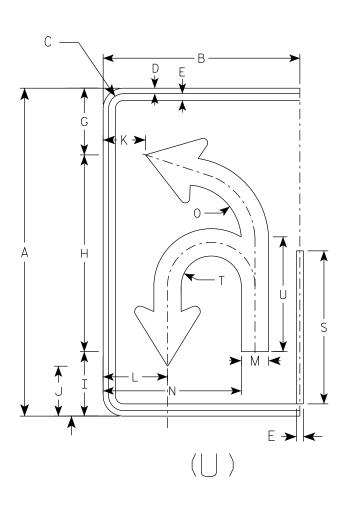
PLOT NAME :

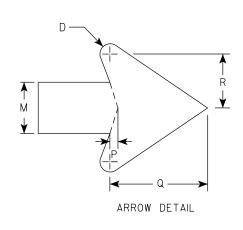
Ε

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

Background - White Message - Black

3. Message Series - None





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	Ν	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8		6 1/8	18	5 1/8	4 5/8	3 1/8	5 1/8	2 1/2	12	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 1/8	4 5/8	3 1/8	5 1/8	2 1/2	12	5 1/8	3/8	4 3/4	2	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	21 %	7 1/8	5 1/2	5 %	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 ¾	9 3/8	7 1/4	6 1/8	10	4	20 1/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 ¾	9 3/8	7 1/4	6 1/8	10	4	20	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 ¾						10.0

PROJECT NO:

STANDARD SIGN R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

 $f_{or}$  State Traffic Engineer

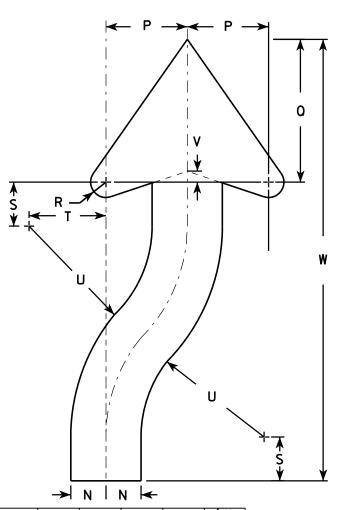
DATE 5/21/19 PLATE NO. R3-8.1 SHEET NO:

HWY: COUNTY: PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42 FILE NAME: C:\CAEfiles\Projects\stdplate\_R38.dgn PLOT DATE: 21-MAY 2019 4:38 PLOT BY : mscj9h PLOT NAME :

- 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

																							$\rightarrow$	N I I	N <del> </del>		
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	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	5/8	1 1/8	3 1/4	6 3/4	1/2	20 ¾				3.0
25	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 %	3	8	4	12 1/2	2	30	4 %	8 1/8	<b>1</b> / <sub>8</sub>	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 %	3	8	4	12 1/2	2	30	4 %	8 1/8	<b>7</b> ⁄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 3/8	11 1/8	2 1/8	4 1/2	12	6	18 ¾	3	45	6 %	12 1/4	1 1/4	3 3/4	6 %	13 1/2	1	40 ¾				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 ¾				12.0
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 3/4	18	1 1/4	50 1/4				20.0

COUNTY:

R4-7

STANDARD SIGN R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

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

SHEET NO:

PROJECT NO:

D >

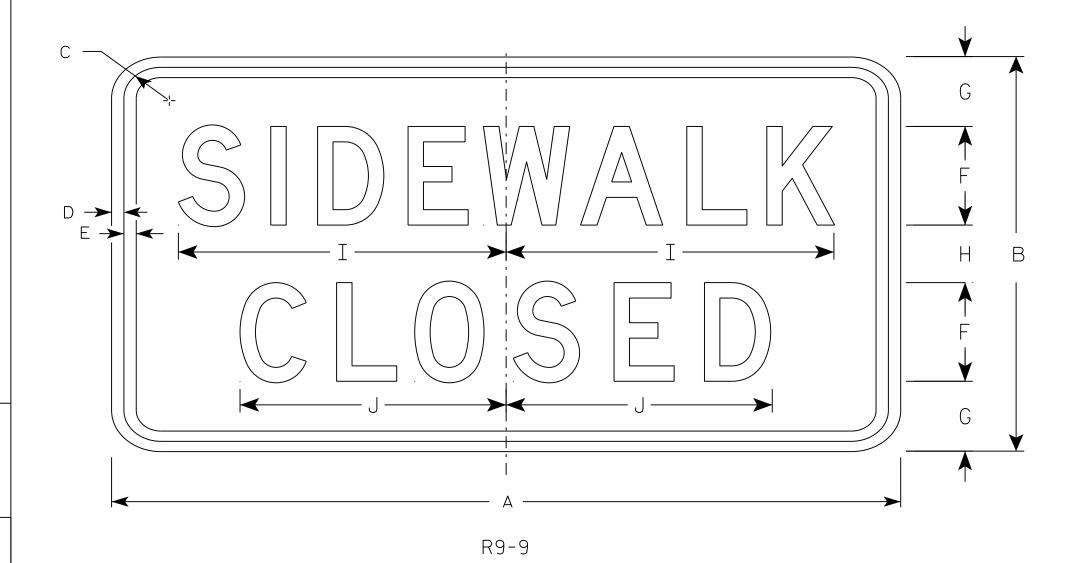
HWY:

PLOT NAME :

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

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.



SIZE A 2S 24 1 3/4 1/2 2 1/8 1 3/4 10 1/2 12 3 8 1/8 2.0 24 1 3/4 1/2 2 1/8 1 3/4 8 1/8 12 10 2.0 1 3/4 3 1/2 30 18 1/2 1/2 3 | 12 1/2 | 10 1/4 3.75

COUNTY:

STANDARD SIGN R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED M\_\_//

Manher R Ray

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

SHEET NO: R9-9.6

| PINT NATE \* 11-AIR-2016 11:33 PINT RY \* \$\$ DIOTUSER \$\$ PINT NAME: PINT SCALE \* 2 918761\*1 000000

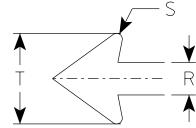
HWY:

PROJECT NO:

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

Background - White Message - Black

- 3. Message Series C except Size 1 is Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.
- 6. R9-11D (double arrow) R9-11L (left arrow) R9-11R (right arrow)



RQ_	. 11
$I \setminus J$	ΤŢ

SIZE	А	В	С	D	E	F	G	Н	I	J	K	Г	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																											
25	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 %	5 1/8		1	1/8	2 3/4							2.0
2M	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 %	5 1/8		1	1/8	2 3/4							2.0
3	30	15	1 1/8	3/8	1/2	2	1 1/2	1 1/2	13	3/4	2	10 1/4	4 5/8	12 3/8	8 1/8	6 1/8		1 1/4	1/4	3 5/8							3.125
4																											
5																											

COUNTY:

STANDARD SIGN R9-11

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

DATE 3/30/2021 PLATE NO. R9-11.4

Ε

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R911.dgn

HWY:

 $D \rightarrow$ 

PROJECT NO:

PLOT DATE: 30-MAR 2021 1:40

PLOT BY : dotc4c

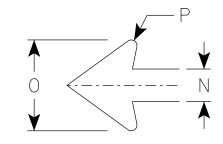
PLOT NAME :

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

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

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Use Size 2 for Sidewalks. Use Size 3 for paths and Trails.
- 6. R9-11AD (double arrow) R9-11AL (left arrow) R9-11AR (right arrow)



ARROW DETAIL

$C \longrightarrow A$
SIDEWALK CLOSED F
The state of the s
<b>←</b>
R9-11A

SIZE	А	В	С	D	Е	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Υ	Z	Area sq. ft.
1																											
25	24	12	1 1/8	3/8	3/8	2	10 1/4	5/8	1 1/2	8 1/4	9 1/4	7	5 %	1	2 3/4	1/8											2.0
2M	24	12	1 1/8	3/8	3/8	2	10 1/4	5/8	1 1/2	8 1/4	9 1/4	7	5 5/8	1	2 3/4	1/8											2.0
3	30	15	1 1/8	3/8	1/2	2 1/2	12 3/4	1/2	2	10 1/4	12 3/8	8	6 3/4	1 1/4	3 5/8	1/4											3.125
4																											
5																											

STANDARD SIGN R9-11A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 3/31/2021

PLATE NO. <u>R9-11A.5</u>

Ε COUNTY: PROJECT NO: HWY: SHEET NO: PLOT NAME :

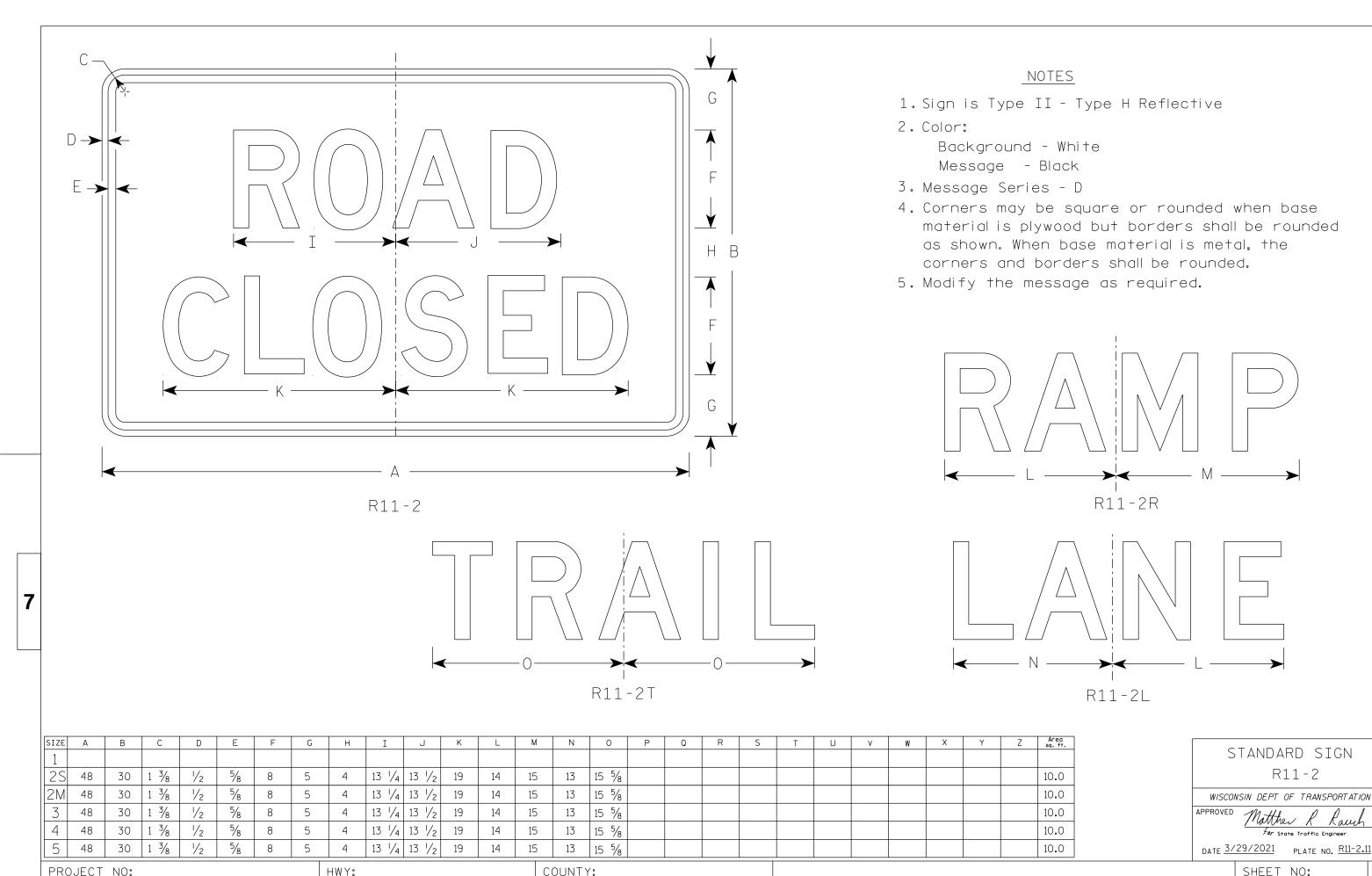
FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\R911A.dgn

PLOT DATE: 31-MAR-2021 6:30

PLOT BY : dotc4c

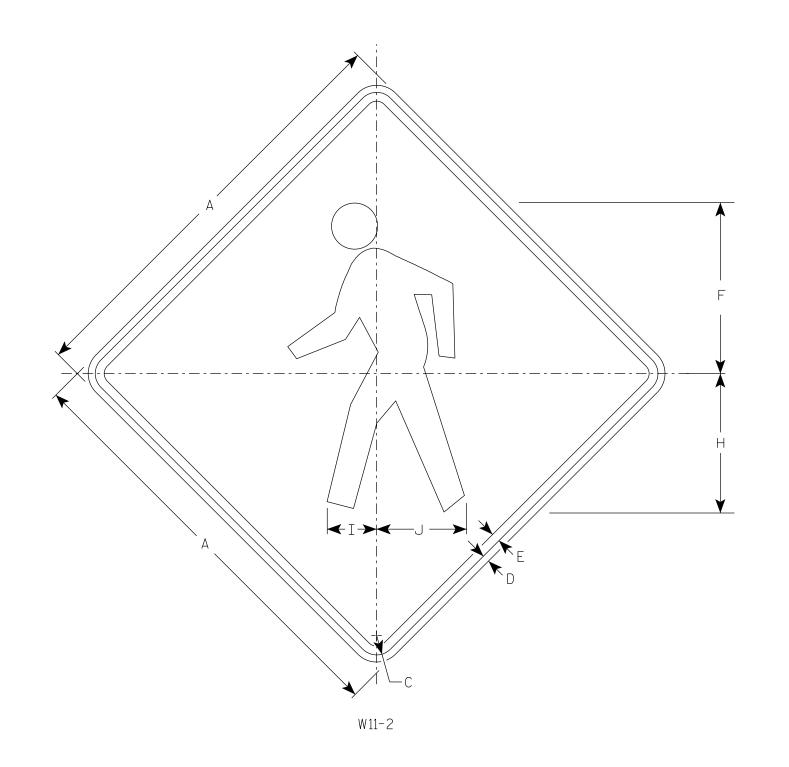
PLOT SCALE :

WISDOT/CADDS SHEET 42



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

Background - Yellow Message - Black



						_																					
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	9 3/4		7 1/8	2 1/8	5 1/8																	4.0
25	30		1 3/8	1/2	5/8	12 1/8		9 1/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 1/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 1/8	4 1/4	7 %																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 %	10 1/4																	16.0
5																											

COUNTY:

STANDARD SIGN

W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R

For State Traffic Engineer

DATE <u>4/8/2020</u>

PLATE NO. <u>W11-2.8</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W112.DGN

PROJECT NO:

HWY:

PLOT DATE: 08-APRIL-2020

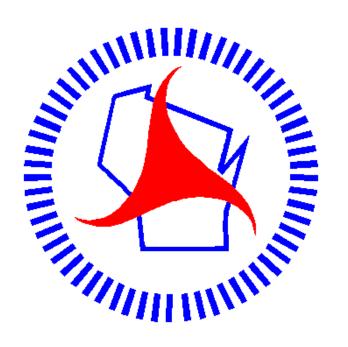
PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE :

WISDOT/CADDS SHEET 42

ı



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

MAD

**PROJECT ID:** wлтн: 5990-01-28

5990-01-30

TOTAL SHEETS =

COUNTY:

ROCK

# DECEMBER 2021 ORDER OF SHEETS Section No. 1 Title Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

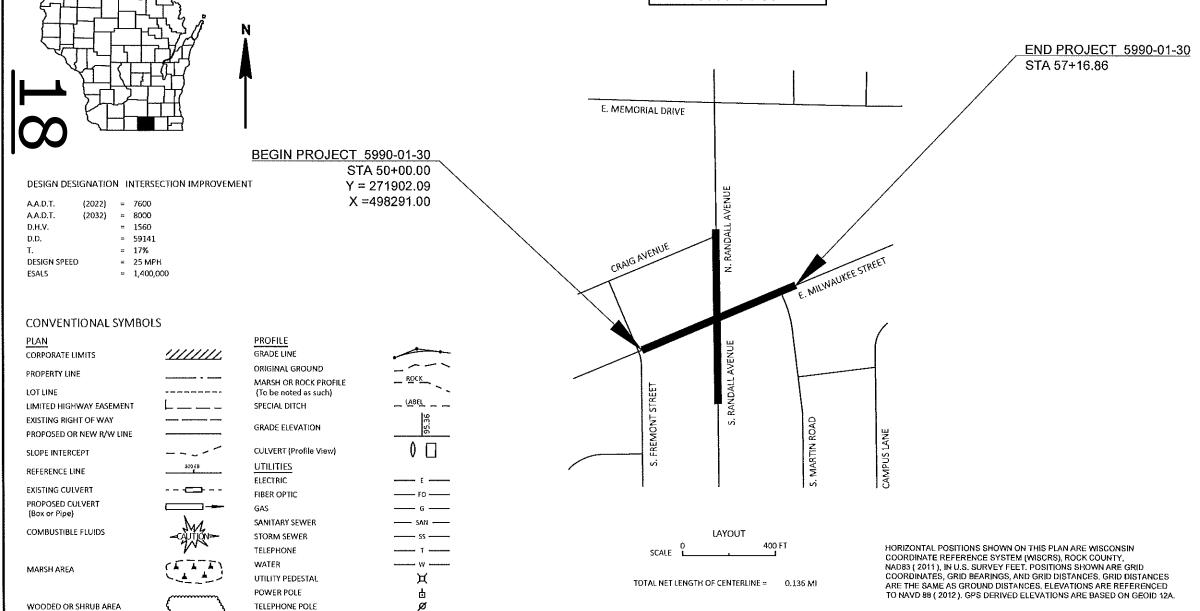
#### 

## CITY OF JANESVILLE, E. MILWAUKEE STREET

(RANDALL AVENUE INTERSECTION)

LOCAL STREET ROCK COUNTY

5990-01-30



ACCEPTED FOR

CITY OF JANESVILLE

Date 7 2221 | July Overland (Accepting Authority Signature)

ORIGINAL PLANS PREPARED BY





DATE: 07/22/21

(Professional Engineer Signature)

KL ENGINEERING

OSCAR I. WINGER

#### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor
Designer
Project Mana

 gner
 KL ENGINEERING

 ect Manager
 ZACHARY PEARSON

 pnal Examiner
 ZACHARY PEARSON

PPROVED FOR THE DEPARTMENT 07/27/2021

(Signature)

....

E

Standard Detail Drawings

Sign Plates

<u>ABBREVIATIONS</u>

BASE AGGREGATE DENSE

BM BENCH MARK BLDG. BUILDING

BLDG. BUILDING
CBTP CONCRETE BARRIER TEMPORARY PRECAST

CTR CENTER C/L CENTERLINE

C/L CENTERLINE
C.E. COMMERCIAL ENTRANCE

CONC. CONCRETE

CSW CONCRETE SIDEWALK

CMCP CORRUGATED METAL CULVERT PIPE

CP CULVERT PIPE

CPCS CULVERT PIPE CORRUGATED STEEL
CPRC CULVERT PIPE REINFORCED CONCRETE
CPRCHE CULVERT PIPE REINFORCED CONCRETE

HORIZONTAL ELLIPTICAL
CPT CONSTRUCTION PERMIT
DMS DYNAMIC MESSAGE SIGN
EAT ENERGY ABSORBING TERMINAL

EB EASTBOUND ELEC ELECTRIC

IE INVERT ELEVATION
EX. OR EXIST EXISTING
FO FIBER OPTIC
F.E. FIELD ENTRANCE

GAS GAS

HMA HOT MIX ASPHALT

HSE. HOUSE
LHF LEFT HAND FORWARD

MH MANHOLE
MAX. MAXIMUM
MIN. MINIMUM
NB NORTHBOUND
NOR. NORMAL
NTS NOT TO SCALE

PLE PERMANENT LIMITED EASEMENT

P.E. PRIVATE ENTRANCE
P.L. PROPERTY LINE

PRW PROPOSED RIGHT-OF-WAY

RAD OR R RADIUS
R/L REFERENCE LINE
REQ'D. REQUIRED

RIGHT HAND FORWARD RHF RW/ RIGHT-OF-WAY LINE SAN SANITARY SEWER SB SOUTHBOUND SHLD SHOULDER SIDEWALK SW SQUARE FEET SF SY SQUARE YARD

S.D.D. STANDARD DETAIL DRAWING

STA STATION

SS STORM SEWER
TEL TELEPHONE

TLE TEMPORARY LIMITED EASEMENT TYP TYPICAL

WAT WATER
WB WESTBOUND

#### UTILITY CONTACTS

#### COMMUNICATIONS

CAROL ANASON AT&T WISCONSIN 316 W WASHINGTON AVENUE MADISON, WI 53703 CA2624@ATT.COM (608) 252-2385 (OFFICE) (608) 622-2079 (MOBILE)

#### COMMUNICATIONS

BRIAN KOEHN SPECTRUM 1348 PLAINFIELD AVENUE JANESVILLE, WI 53545 BRIAN.KOEHN@CHARTER.COM (608) 274-3822

(608) 209-8659 (MOBILE)

#### SANITARY SEWER

CRAIG THIESENHUSEN
WATER UTILITY
123 E DELAVAN DRIVE
JANESVILLE, WI
THIESENHUSENC@CI.JANESVILLE.WI.US
(608) 373-3471

#### GAS

RON ROHM
ALLIANT ENERGY
3730 KENNEDY ROAD
JANESVILLE, WI 53545
(608) 757-7514 (OFFICE)
RONALDROHM@ALLIANTENERGY.COM

#### WATER

CRAIG THIESENHUSEN
WATER UTILITY
123 E DELAVAN DRIVE
JANESVILLE, WI
THIESENHUSENC@CI.JANESVILLE.WI.US
(608) 373-3471

#### ELECTRICITY

RON ROHM ALLIANT ENERGY 3730 KENNEDY ROAD JANESVILLE, WI 53545 (608) 757-7514 (OFFICE) RONALDROHM@ALLIANTENERGY.COM

#### ORDER OF DETAIL SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
PLAN DETAILS

PERMANENT SIGNING/PAVEMENT MARKING PLAN

TRAFFIC SIGNAL PLAN
TRAFFIC CONTROL PLAN

ALIGNMENT AND CONTROL POINT DETAIL

### GENERAL NOTES N OF EXISTING AND PROPOSED UTILITY INSTALLATION

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN IN THE PLAN, ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. CONTACT DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO START OF WORK.

REMOVAL ITEMS REQUIRING RESTORATION OF CONCRETE OR ASPHALT SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

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

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

THE ASPHALTIC SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.

PLOT NAME

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

\*\* DENOTES A UTILITY IS NOT A DIGGER MEMBER

#### **DESIGN CONTACT**

BRAD HALVENSLEBEN, P.E. KL ENGINEERING, INC. 5400 KING JAMES WAY SUITE 200 MADISON, WI 53719 (608) 663-1218

**DESIGN CONTACT** 

18 NORTH JACKSON STREET

BIZJAKA@CI.JANESVILLE.WI.US

AHNARAY BIZJAK

**ENGINEERING** 

(608) 755-3171

CITY OF JANESVILLE

JANESVILLE, WI 53547

BHALVENSLEBEN@KLENGINEERING.COM

#### DESIGN CONTACT

ZACHARY PEARSON WISCONSIN DEPARTMENT OF TRANSPORTATION 2101WRIGHT STREET MADISON, WI 53704 (608) 246-5319 ZACHARY.PEARSON@DOT.WI.GOV

#### DNR LIAISON

SHELLEY NELSON
DNR SOUTH CENTRAL REGION HEADQUARTERS
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
PHONE: 608-444-2835
EMAIL: SHELLEY.NELSON@WISCONSIN.GOV

PLOT DATE :

#### OTHER CONTACT

MATT GOSLINE
JANESVILLE CITY SERVICES
STREETLIGHTS/TRAFFIC SIGNALS
2200 US 51
JANESVILLE, WI 53545
OFFICE: 608-373-3407
CELL: 608-751-5220

KL ENGINEERING

PLOT BY:

#### OTHER CONTACT

GREG SELISSEN
JANESVILLE SCHOOL DISTRICT
P.O. BOX 11064
GREEN BAY, WI 54307
GSELISSEN@MCEWI.COM
(877) 870-6868 EXT. 1004 (OFFICE)
(920) 328-8452 (MOBILE)

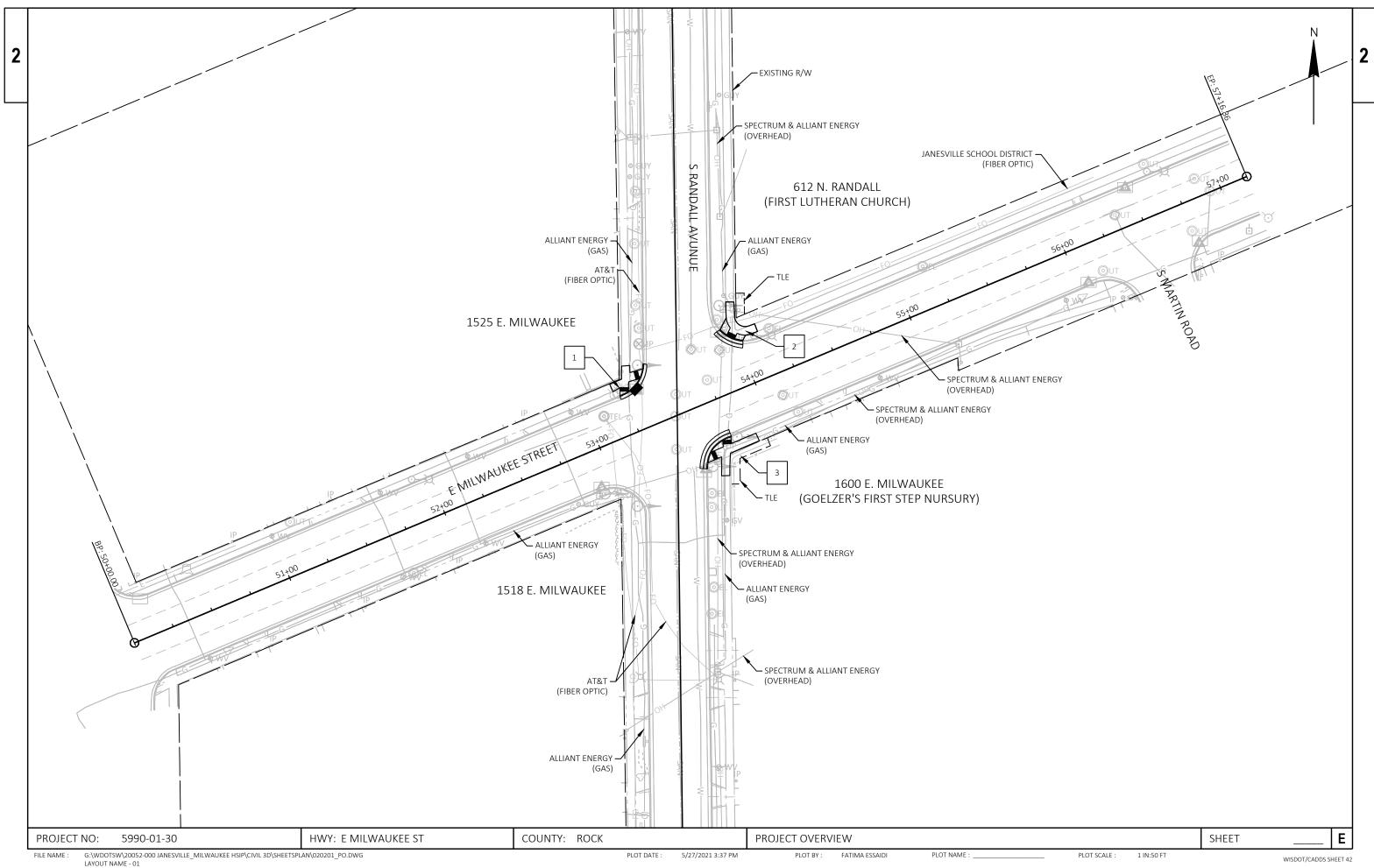
PLOT SCALE:

1 IN:100 FT

PROJECT NO: 5990-01-30 HWY: E MILWAUKEE ST COUNTY: ROCK GENERAL NOTES SHEET **E** 

9/27/2021 10:58 AM

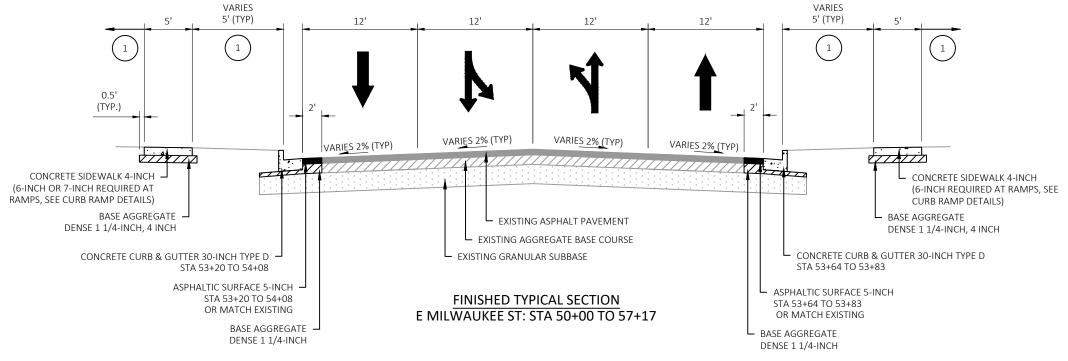
FILE NAME :





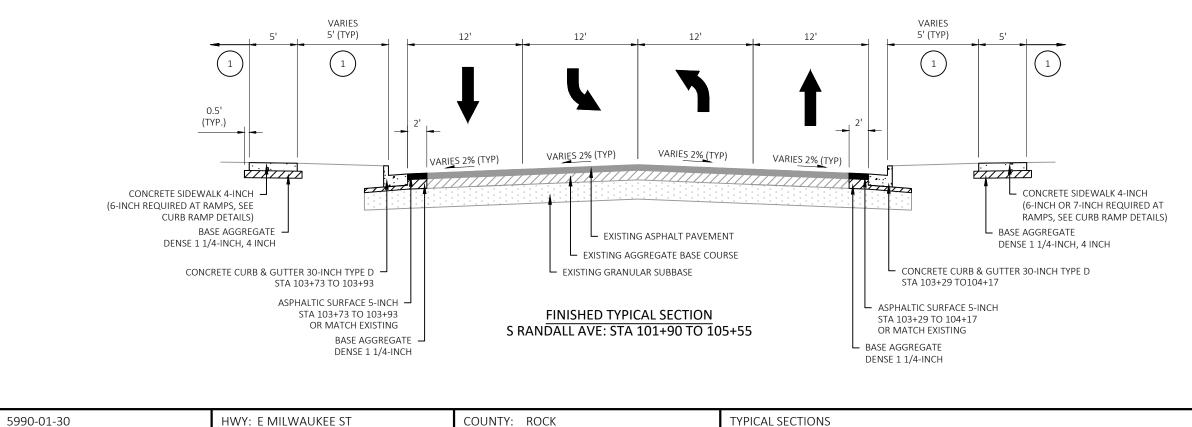
Ε

SHEET



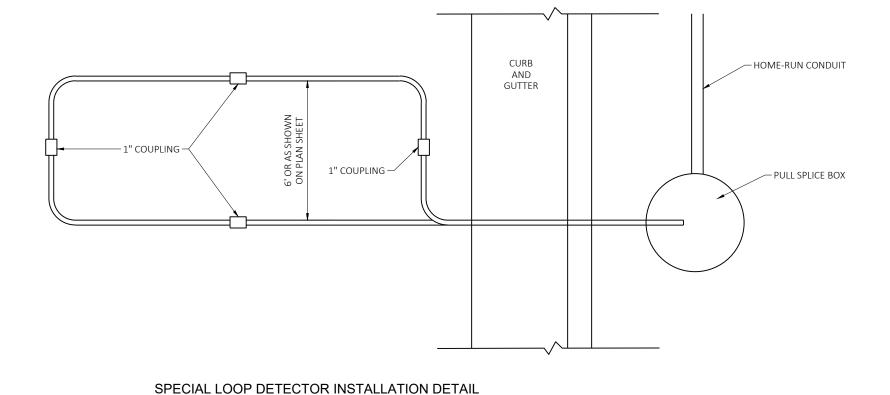
SALVAGED TOPSOIL, SEEDING MIXTURE NO. 40, EROSION MAT URBAN CLASS I TYPE B, MULCHING, FERTILIZER TYPE A

PROJECT NO:



# (PAVEMENT SECTION - NTS)

SPECIAL LOOP DETECTOR INSTALLATION DETAIL



#### **GENERAL NOTES**

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

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENT'S APPROVED PRODUCT LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISITANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE. NON-SPLICED. CONTINUOUS LENGTH.

IN THE EVENT THAT THE EXISTING PAVEMENT IS MORE THAN 5 INCHES THICK, AND THEREFORE, THE 1 INCH CONDUIT DOES NOT REQUIRE INSTALLATION BELOW THE PAVEMENT INTO THE BASE COURSE, PLACE SOME OF THE TAR OR EPOXY SEALANT IN THE SLOT TO A DEPTH OF APPROXIMATELY ½ INCH BEFORE INSTALLATION OF THE CONDUIT. IF THE CONDUIT MUST BE PLACED IN THE BASE COURSE, DO NOT PLACE TAR OR EPOXY SEALANT IN THE SLOT

ONCE THE 2" LOOP SLOT HAS BEEN CHIPPED OUT, THE LOOP INSTALLATION SHALL BE COMPLETED PRIOR TO OPENING THE LANE(S) TO TRAFFIC.

THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

\*\* AFTER THE HIGH PERFORMANCE COLD PATCH HAS BEEN TAMPED, SEAL THE SLOT/HIGH PERFORMANCE COLD PATCH/PAVEMENT OPENING WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".

IN THE EVENT HIGH PERFORMANCE COLD PATCH IS NOT AVAILABLE, AND FLEXIBLE TYPE EPOXY IS USED AS A LOOP SLOT FILLER, THE 2 INCH SLOT SHALL BE TOTALLY CLEAN AND DRY BEFORE ITS INSTALLATION. EPOXY USE SHALL BE APPROVED BY THE DISTRICT TRAFFIC ENGINEER AND THE FURNISHED EPOXY SHALL BE INSTALLED AFTER WRITTEN APPROVAL BY THE PROJECT ENGINEER

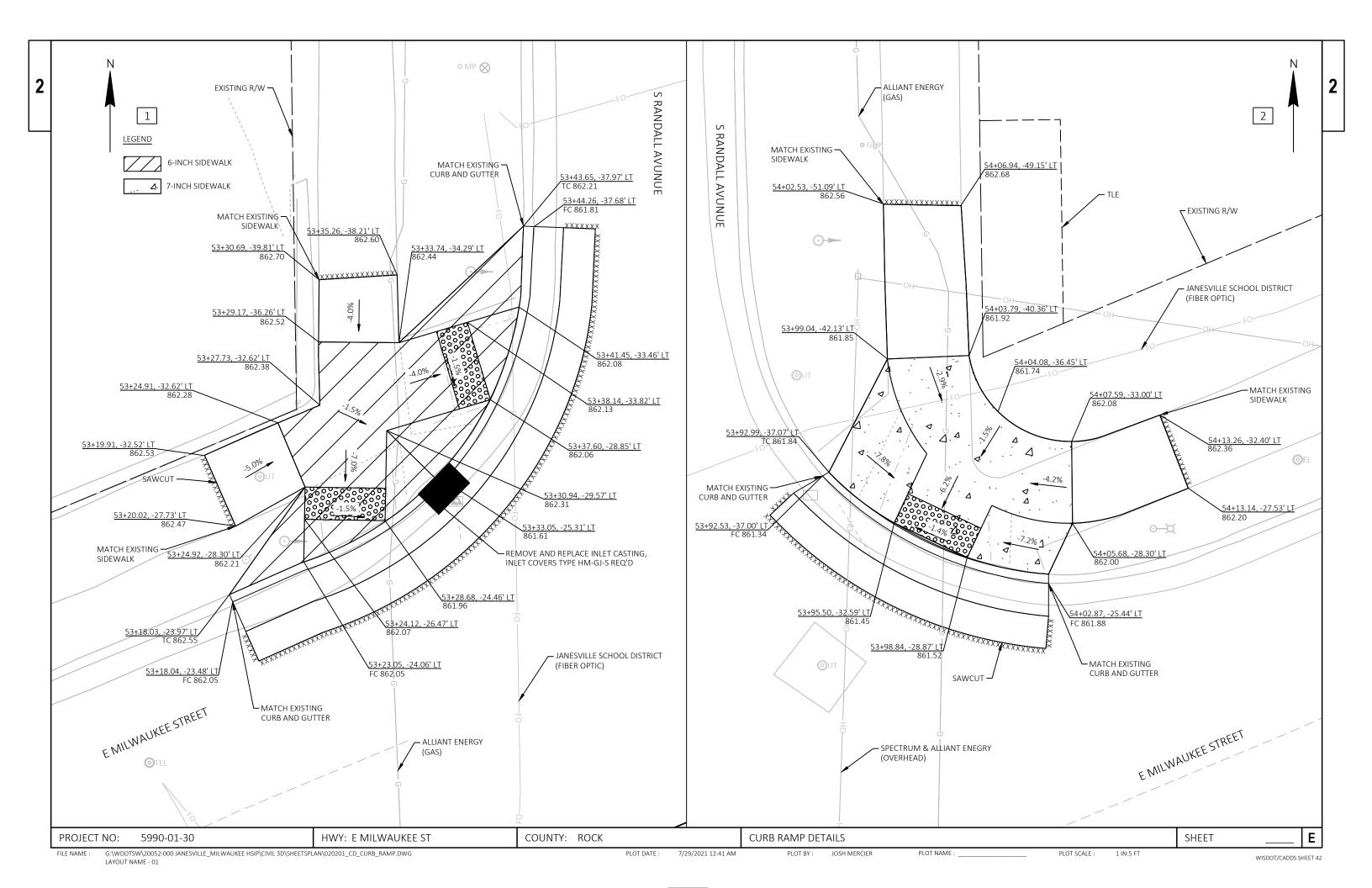
FOR DETAILS NOT SHOWN SEE S.D.D. LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT.

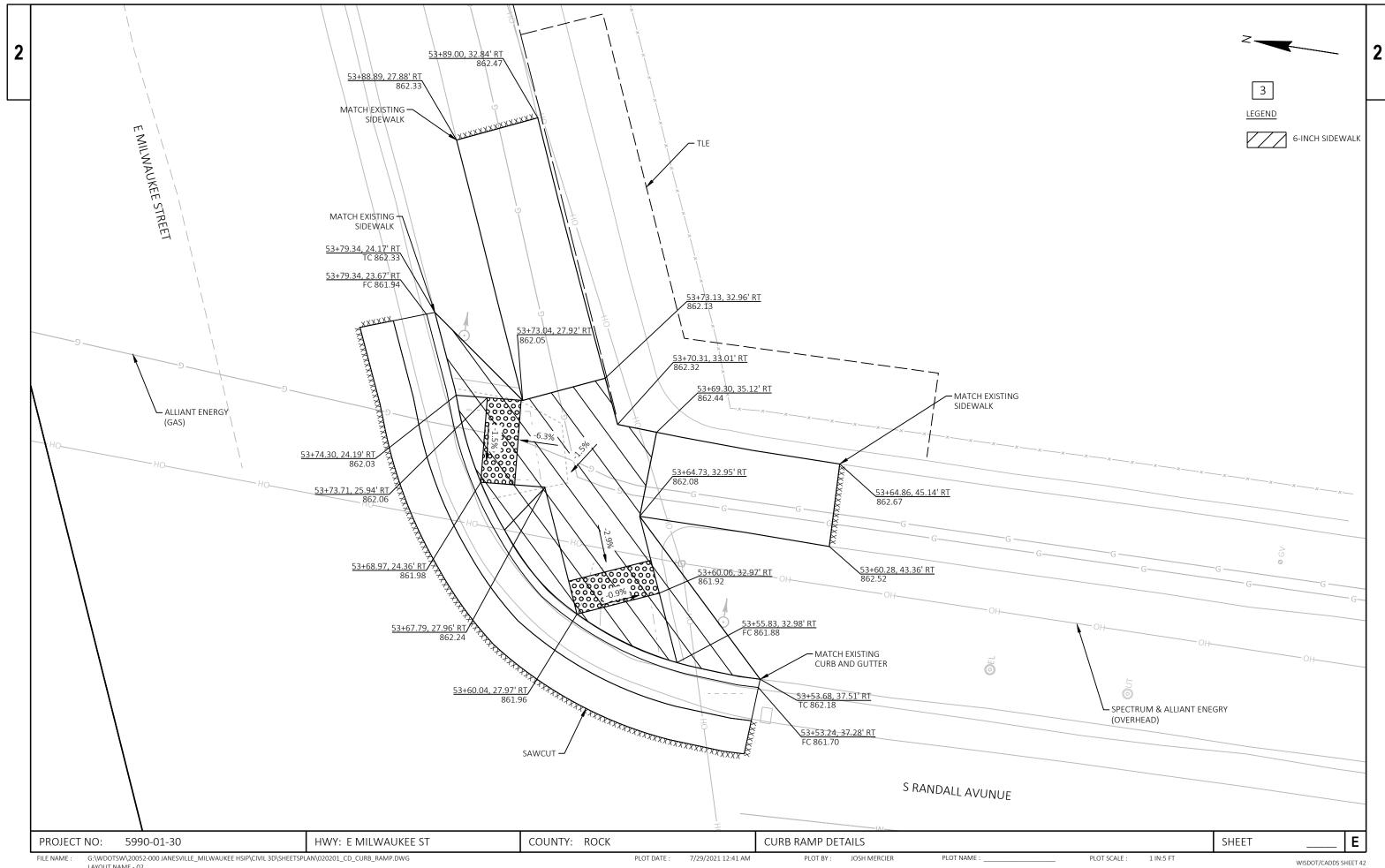
5990-01-30 HWY: E MILWAUKEE ST COUNTY: ROCK SPECIAL LOOP DETECTOR DETAIL SHEET PROJECT NO: G:\WDOTSW\20052-000 JANESVILLE MILWAUKEE HSIP\CIVIL 3D\SHEETSPLAN\020201 CD SPECIAL-LOOP.DWG PLOT BY: JOSH MERCIER PLOT NAME PLOT SCALE: 1 IN:2 FT 7/30/2021 10:51 AM

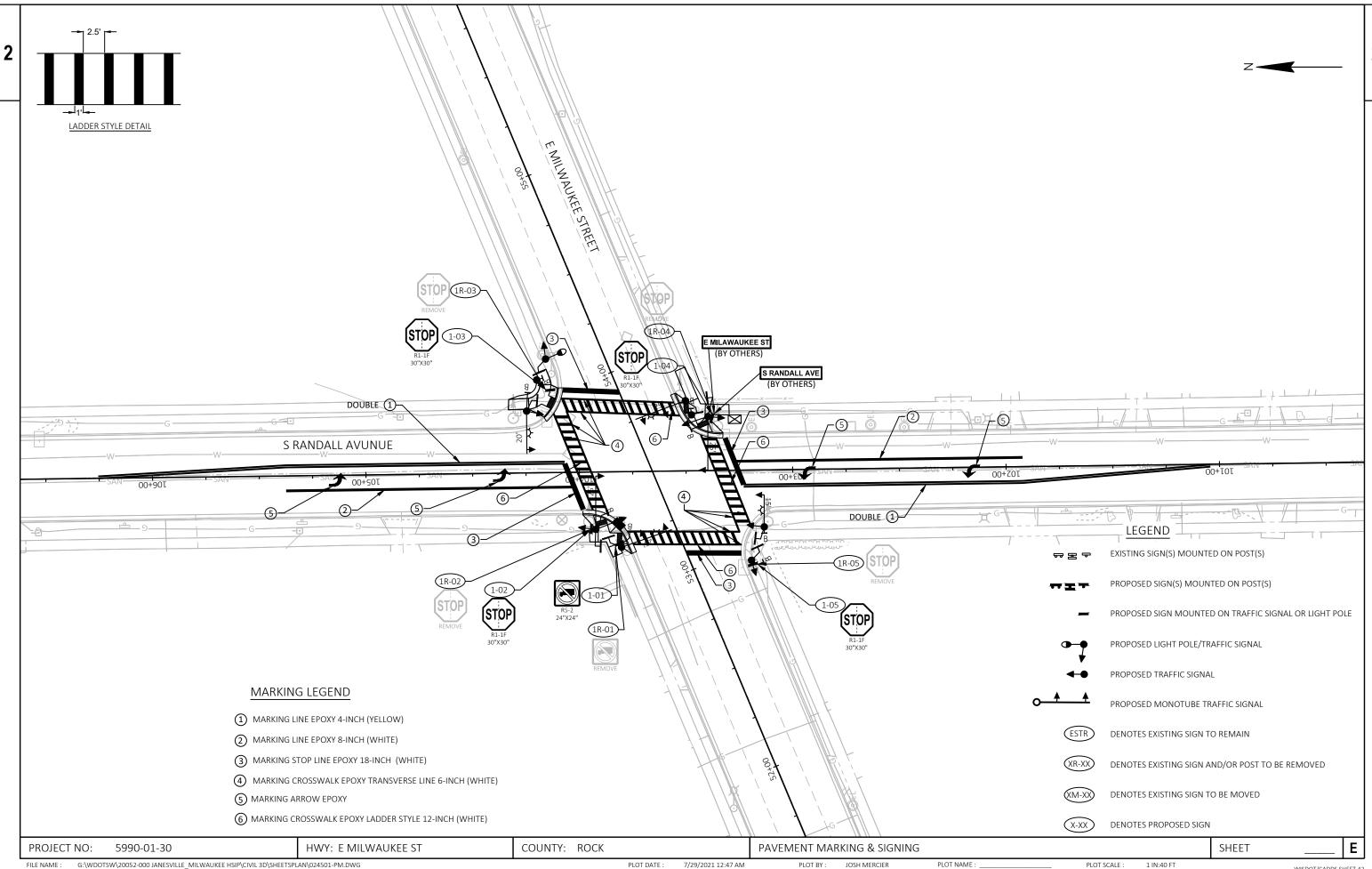
BACKFILL & COMPACT AROUND

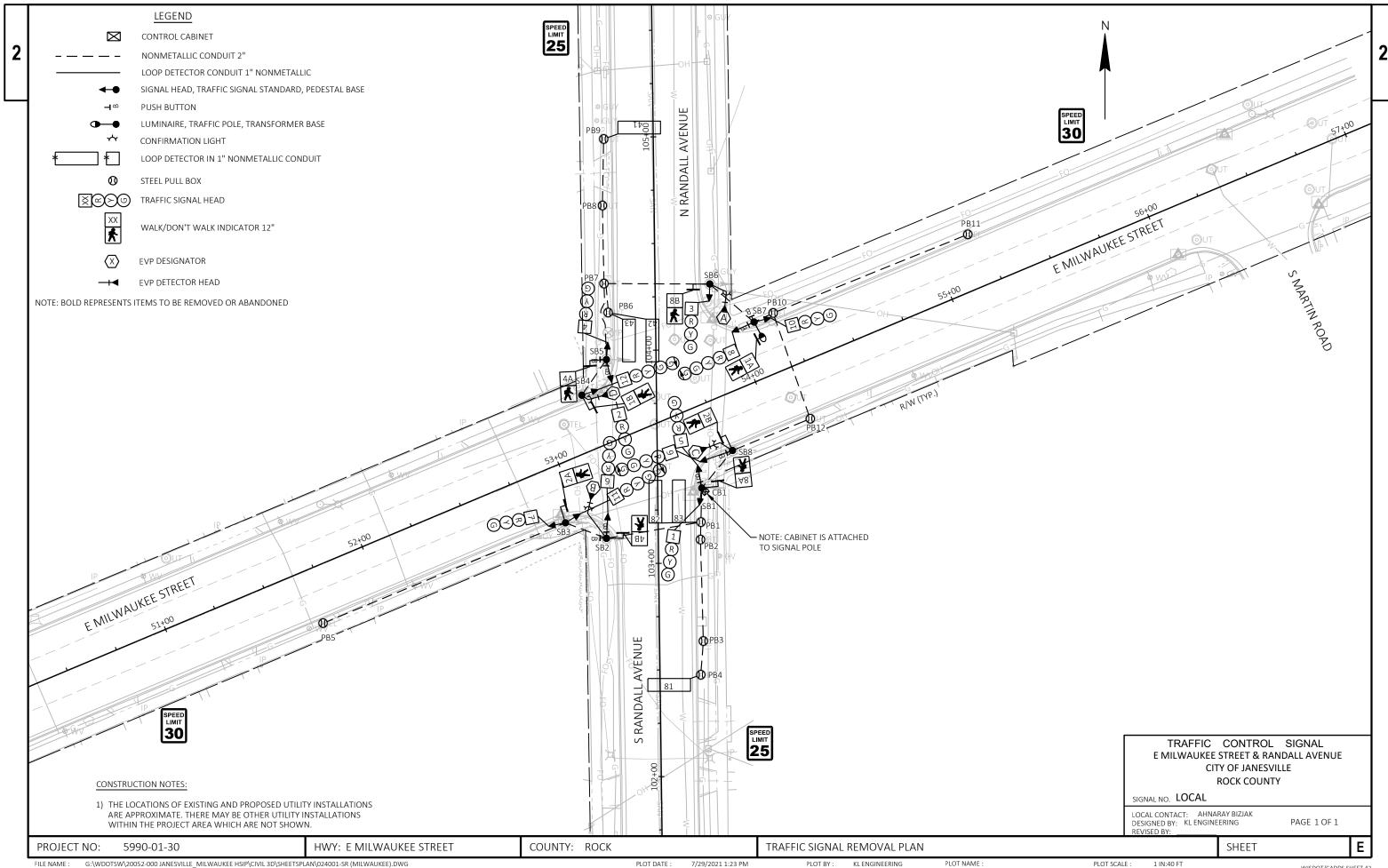
LAYOUT NAME - Plan 1 IN 10 FT

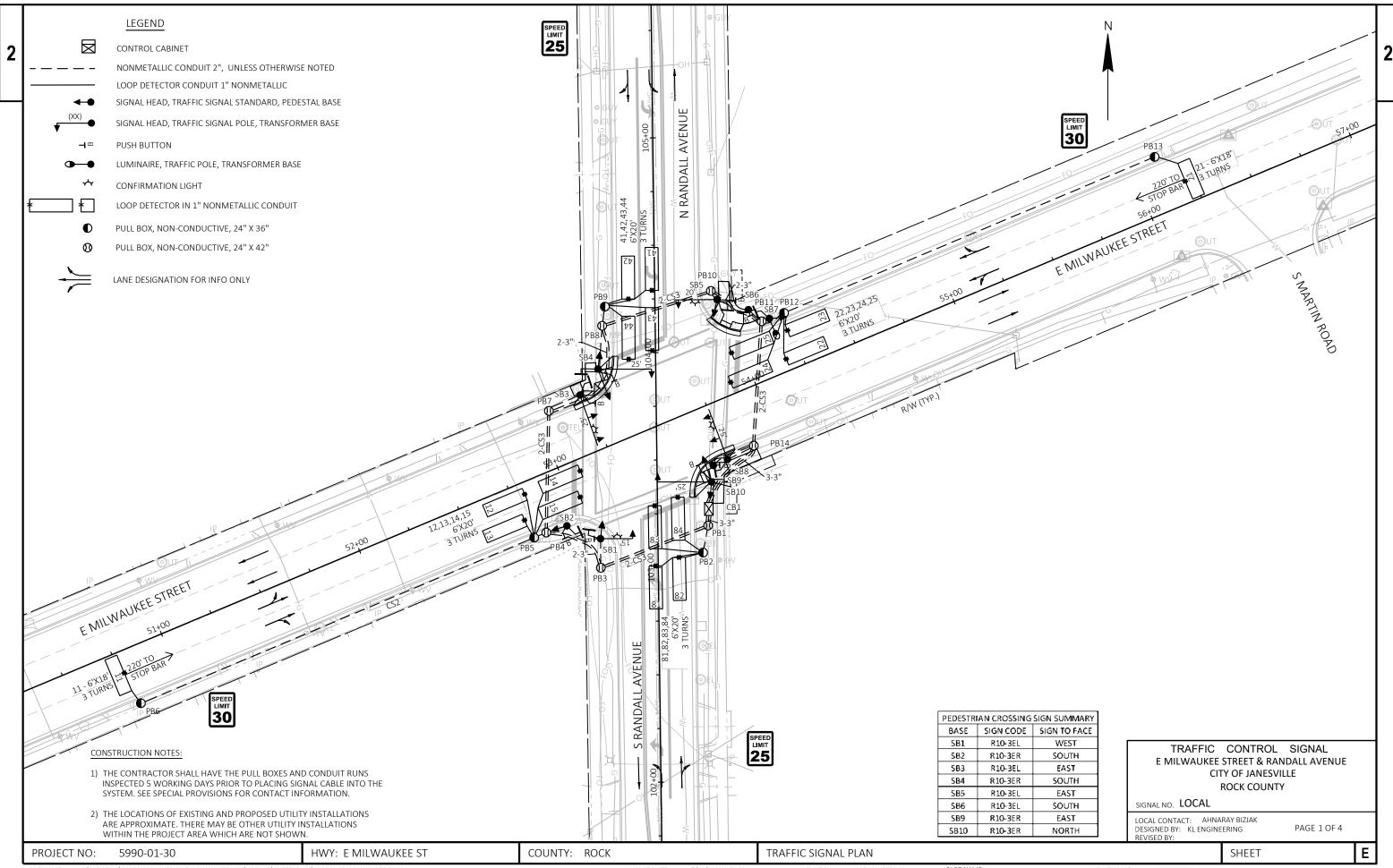
(PLAN VIEW - NTS)

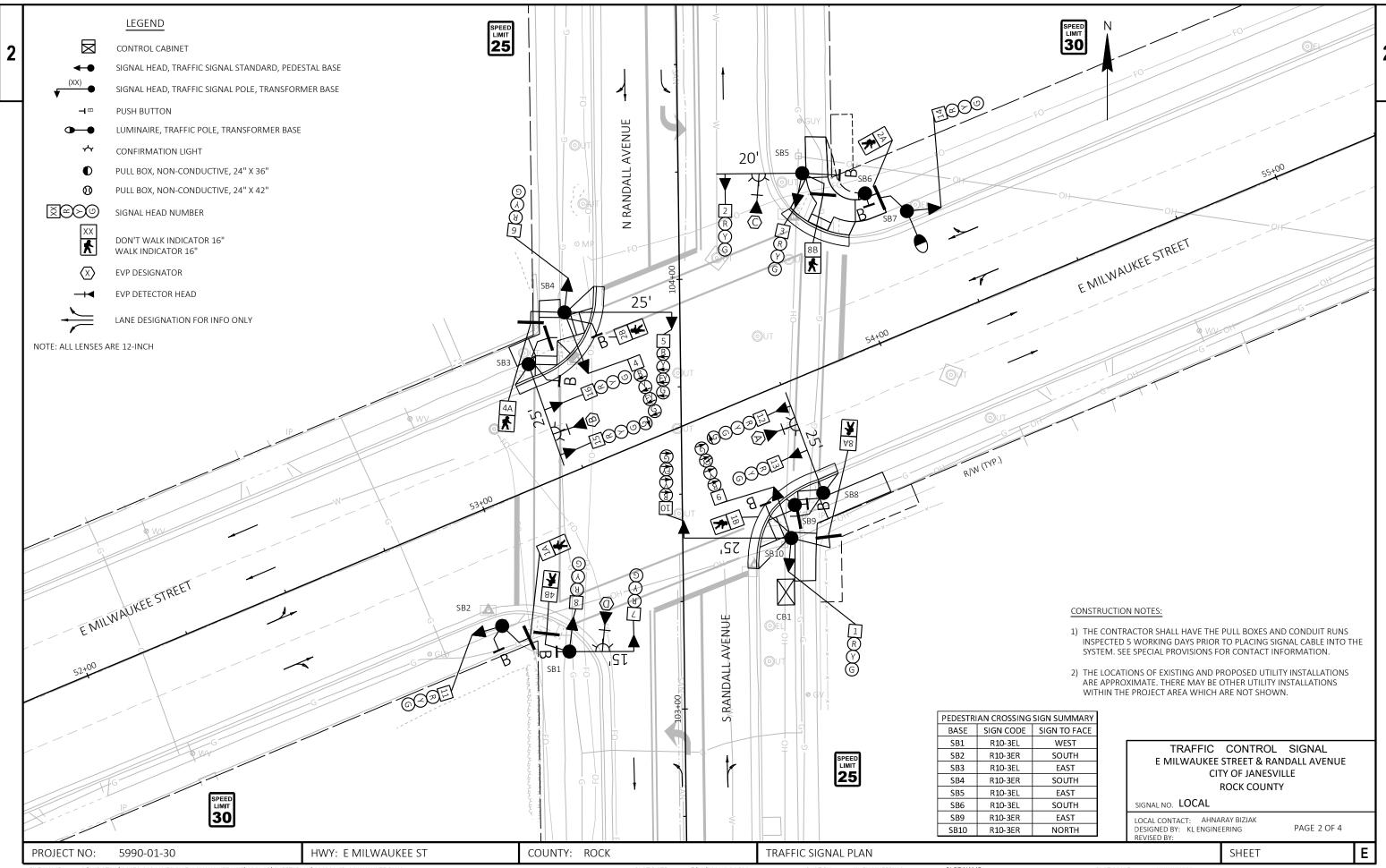






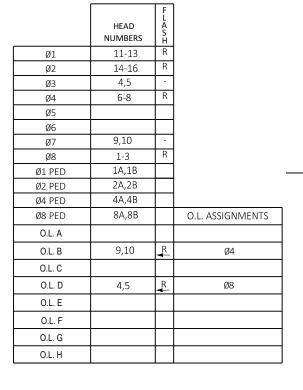


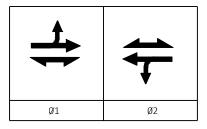


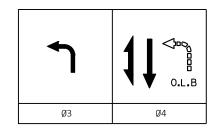


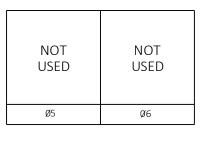
DETECTOR INPUT

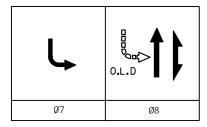
PROJECT NO:











LEGEND OVERLAP PHASE

BARRIER

#### **DETECTOR LOGIC**

13

DETECTOR #(S)		14	15		24	25	43	44
PHASE CALLED		1	1		2	2	4	4
PHASE EXTENDED		1	1		2	2	4	4
DISCONNECT TIME								
CALLING DELAY							2	
EXTENSION STRETCH								
LOOP FUNCTION								
DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR INPUT  DETECTOR #(S)	4 11	2 12	8 13	6 21	12 22	10 23	16 41	14 42
	· ·		_	_				
DETECTOR #(S)	11	12	13	21	22	23	41	42
DETECTOR #(S) PHASE CALLED	11	12 1	13	21	22	23	41 4	42
DETECTOR #(S)  PHASE CALLED  PHASE EXTENDED	11	12 1	13	21	22	23	41 4	42
DETECTOR #(S)  PHASE CALLED  PHASE EXTENDED  DISCONNECT TIME	11	12 1	13	21	22	23	41 4	42
DETECTOR #(S)  PHASE CALLED  PHASE EXTENDED  DISCONNECT TIME  CALLING DELAY	11	12 1	13	21	22	23	41 4	42

11

19	17	23	21	27	25	31	29
83	84						
8	8						
8	8						
2							
		ı			I		

								_
20	18	24	22	28	26	32	30	
81	82							1
8	8							1
8	8							1
								]
								1
								1
								1
								J

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W /Ø	PHASE RECALL	PHASE ACTIVE
1	Х			Х
2	Х			Х
3		8		Х
4		8	SOFT	Х
5				
6				
7		4		X
8		4		Х

PREEMPTION ASSIGNMENTS								
PREEMPTION DESIGNATION	PREEMPTION TYPE	EVP CHANNEL	PHASE(S) CALLED	PREEMPTION APPROACH				
1	RESERVED							
2	RESERVED							
3	EVP	А	1	EB				
4	EVP	В	2	WB				
5	EVP	С	3,8	NB				
6	EVP	D	4,7	SB				
7	NOT USED							
8	NOT USED							
9	NOT USED							
10	NOT USED							

- 1. AFTER PREEMPTION SEQUENCE A, CONTROLLER SHALL RETURN TO PHASE 1.
- 2. AFTER PREEMPTION SEQUENCE B, CONTROLLER SHALL RETURN TO PHASE 2.
- 3. AFTER PREEMPTION SEQUENCE C OR D, CONTROLLER SHALL RETURN TO PHASE 4+8.

	EXTENSION STRETCH
	LOOP FUNCTION
	l
)	DETECTOR INPUT
	DETECTOR #(S)
	PHASE CALLED
	PHASE EXTENDED
	DISCONNECT TIME
	CALLING DELAY
	EXTENSION STRETCH
	LOOP FUNCTION

DETECTOR INPUT DETECTOR #(S) PHASE CALLED PHASE EXTENDED DISCONNECT TIME CALLING DELAY

TYPE OF LIGHTING					
BY OTHER AGENCY					
IN TRAFFIC SIGNAL CABINET	Χ				
IN SEPARATE DOT LIGHTING CABINET					
,					

Χ

TYPE OF REMOTE COMMUNICATION	N
NONE	Χ
IBER	
CELL MODEM	
PHONE	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	$\rangle$
GTT	$\rangle$
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TRAFFIC CONTROL SIGNAL E MILWAUKEE STREET & RANDALL AVENUE CITY OF JANESVILLE **ROCK COUNTY** 

SIGNAL NO. LOCAL

LOCAL CONTACT: AHNARAY BIZJAK DESIGNED BY: KL ENGINEERING REVISED BY:

PAGE 3 OF 4

FILE NAME : G:\WDOTSW\20052-000 JANESVILLE\_MILWAUKEE HSIP\CIVIL 3D\SHEETSPLAN\024201-SP -MILWAUKEE.DWG

5990-01-30

HWY: E MILWAUKEE ST

COUNTY: ROCK

TRAFFIC SIGNAL PLAN

PLOT BY: KL ENGINEERING

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

PROJECT NO: 5990-01-30 INTERSECTION: E MILWAUKEE ST & N RANDALL AVE

SIGNAL WIRE BLK-BLACK RED-RED GRN-GREEN COLOR CODING WHT-WHITE BLU-BLUE ORG-ORANGE DATE 21-Jul

	AWG 14#						SIGNAL	NDICATION W	/IRE COLOR				PED	
CB1 TO	OF COND.	HEAD NO.	PHASE	RED	YELLOW	GREEN	<red></red>	<yellow></yellow>	<flash yel=""></flash>	<green></green>	DWALK	WALK	BUTTON	OTHER
SB1	12	7	4	RED	ORG	GRN								
		8	4	RED	ORG	GRN								
		4B	4								BLK	BLU		
SB2	12	11	1	RED	ORG	GRN								
		1A	1								BLK	BLU		
SB3	12	15	2	RED	ORG	GRN				GRN				
		16	2	RED	ORG	GRN								
		2B	2								BLK	BLU		
SB4	12	4	3/OLB				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		5	3/OLB				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		6	4	RED	ORG	GRN								
		4A	4								BLK	BLU		
SB5	12	2	8	RED	ORG	GRN								
		3	8	RED	ORG	GRN								
		8B	8								BLK	BLU		
SB6	12			CABLI	ING FOR FUTU	RE USE								
SB7	12	14	2	RED	ORG	GRN								
		2A	2								BLK	BLU		
SB8	12	12	1	RED	ORG	GRN				GRN				
		13	1	RED	ORG	GRN								
		1B	1								BLK	BLU		
SB9	12			CABL	ING FOR FUTU	RE USE								
SB10	12	1	8	RED	ORG	GRN								
		9	7/OLD				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		10	7/OLD				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		8A	8								BLK	BLU		

EQUIPMENT GROUNDING					
CONDUCTORS 10 AWG GRN XLP					
SB1					
SB2					
SB3					
SB4					
SB5					
SB6					
SB7					
SB8					
SB9					
SB10					
CB1					

TRAFFIC SIGNAL EVP DETECTOR CABLE						
HEAD	FROM	TO				
А	CB1	SB8				
В	CB1	SB3				
С	CB1	SB5				
D	CB1	SB1				

LOOP DETECTOR	R LEAD IN CABLE				
FROM	то				
CB1	SB1 BUTTON				
CB1	SB2 BUTTON				
CB1	SB3 BUTTON				
CB1	SB4 BUTTON				
CB1	SB5 BUTTON				
CB1	SB6 BUTTON				
CB1	SB8 BUTTON				
CB1	SB9 BUTTON				

TRAFFIC CONTROL SIGNAL E MILWAUKEE STREET & RANDALL AVENUE CITY OF JANESVILLE ROCK COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: AHNARAY BIZJAK DESIGNED BY: KL ENGINEERING REVISED BY:

PAGE 4 OF 4

PROJECT NO: 5990-01-30 HWY: E MILWAUKEE ST FILE NAME :

COUNTY: ROCK

7/29/2021 1:33 PM

TRAFFIC SIGNAL PLAN

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

Ε

 E MILWAUKEE ST. SHALL REMAIN OPEN TO ALL EXISTING LANES AT ALL TIMES EXCEPT FOR FLAGGING OPERATIONS AND LANE CLOSURES AS NOTED IN THE CONTRACT SPECIAL PROVISIONS

#### S RANDALL AVE.

 S RANDALL AVE. SHALL REMAIN OPEN TO ALL EXISTING LANES AT ALL TIMES EXCEPT FOR FLAGGING OPERATIONS AND LANE CLOSURES AS NOTED IN THE CONTRACT SPECIAL PROVISIONS

#### LOCAL ROADS AND DRIVEWAYS

• MAINTAIN LOCAL ACCESS AT ALL TIMES

#### SIDEWALKS

MAINTAIN ACCESS TO BUSINESSES AND RESIDENCES AT ALL TIMES

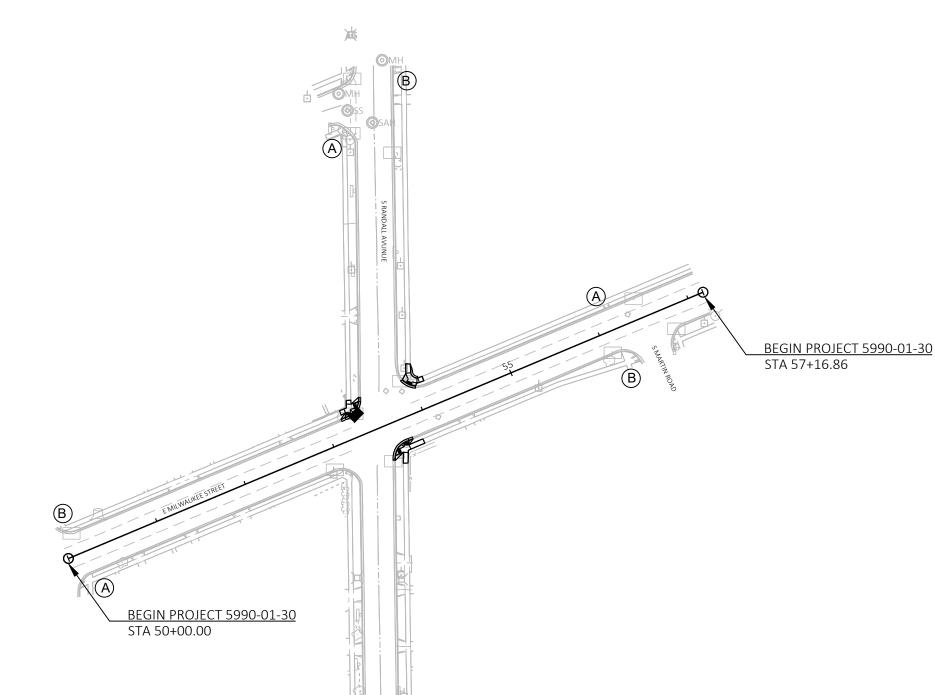
#### NOTES:

REFER TO THE FOLLOWING TRAFFIC CONTROL DETAILS, AS WELL AS STANDARD DETAIL DRAWINGS FOR TRAFFIC CONTROL DEVICES AS NECESSARY, UNLESS OTHERWISE DIRECTED BY THE ENGINEER:

- SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"
- SEE S.D.D. "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION"
- SEE S.D.D. "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY"
- SEE S.D.D. "TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES"
- SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION"
- SEE S.D.D. "TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE"
- SEE S.D.D. "TRAFFIC CONTROL FOR DROP-OFF SIGNING"

#### TRAFFIC CONTROL GENERAL NOTES:

- ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. REMOVING/REPLACING OR COVERING/UNCOVERING SIGNS WILL BE INCIDENTAL TO OTHER TRAFFIC CONTROL ITEMS.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
- CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND SIGN MESSAGE BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE SIGNS AND SIGN MESSAGE BOARDS.
- IF SIGNS ARE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS
- ALL TRAFFIC CONTROL SIGNING SHALL CONFORM TO: PART VI OF THE WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE WISCONSIN SUPPLEMENT TO THE MUTCD, TRAFFIC ENGINEERING, OPERATIONS AND SAFETY MANUAL, AND OTHER CONTRACT DOCUMENTS.
- MOVE. REMOVE OR INSTALL ROUTE MARKER SIGNS AS REQUIRED TO MAINTAIN NECESSARY ROUTE GUIDANCE THROUGHOUT CONSTRUCTION.
- CONTRACTORS EQUIPMENT AND MATERIAL STOCKPILES MAY NOT BE STORED WITHIN THE CONSTRUCTION CLEAR ZONE WHILE THE CONTRACTOR IS NOT WORKING, UNLESS THEY ARE PROTECTED BY CONCRETE BARRIER TEMPORARY PRECAST.
- STAGE CONSTRUCTION OF CURB RAMPS AND SIDEWALK TO ALLOW CONTINUED PEDESTRIAN ACCESS TO EACH CITY BLOCK FROM AT LEAST ONE DIRECTION.
- SIGNAL LOOP REMOVAL & INSTALLATION IN TRAFFIC LANES SHALL BE PERFORMED UNDER FLAGGING OPERATIONS



PROJECT NO: 5990-01-30 HWY: E MILWAUKEE ST

24"X12"

(B)

COUNTY: ROCK

TRAFFIC CONTROL

PCMS MESSAGE

1ST FRAME

ROADWORK

**BEGINS** (DATE)

PLOT SCALE:

SHEET

G:\WDOTSW\20052-000 JANESVILLE MILWAUKEE HSIP\CIVIL 3D\SHEETSPLAN\025001 TC.DWG FILE NAME :

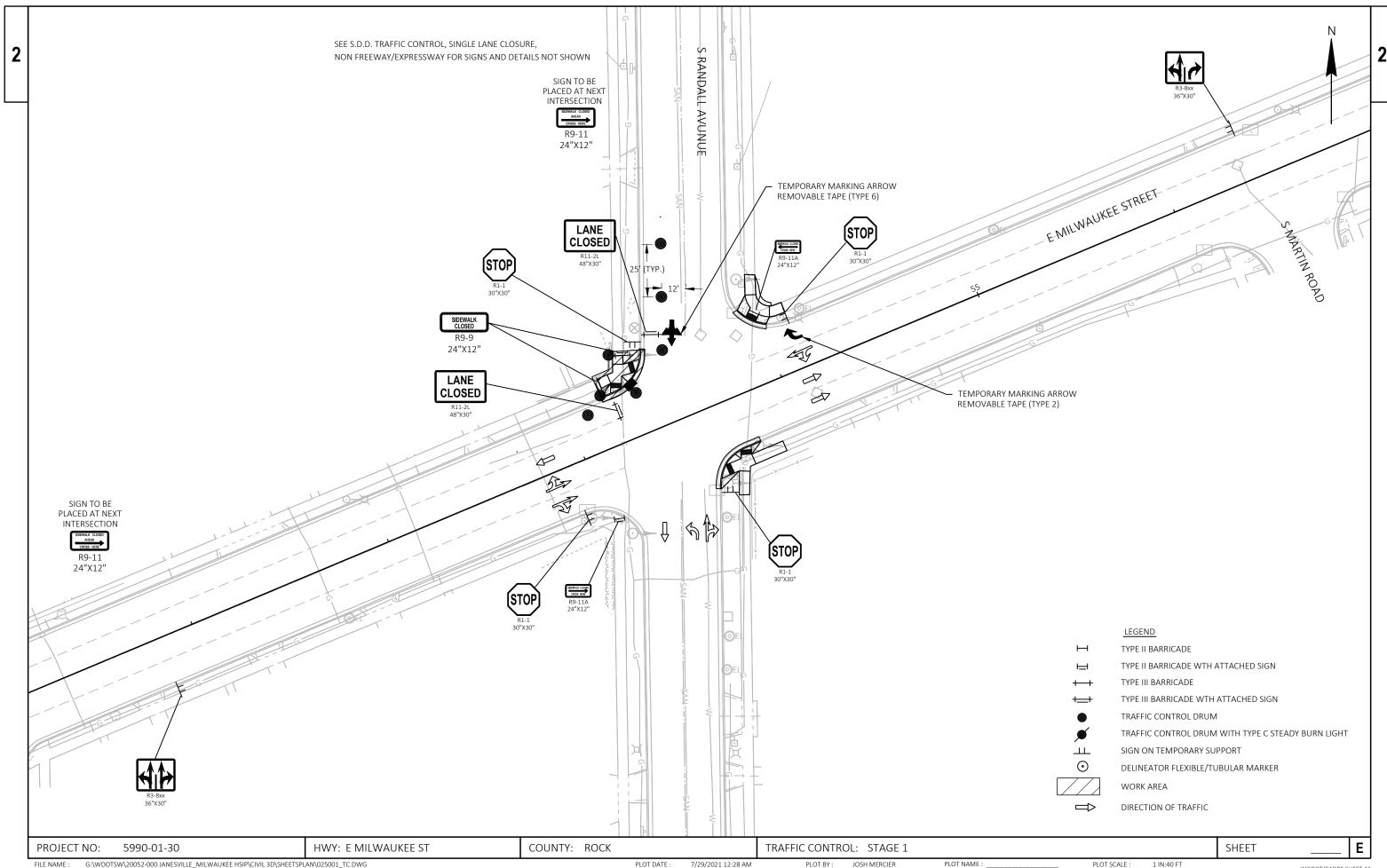
9/27/2021 10:18 AM

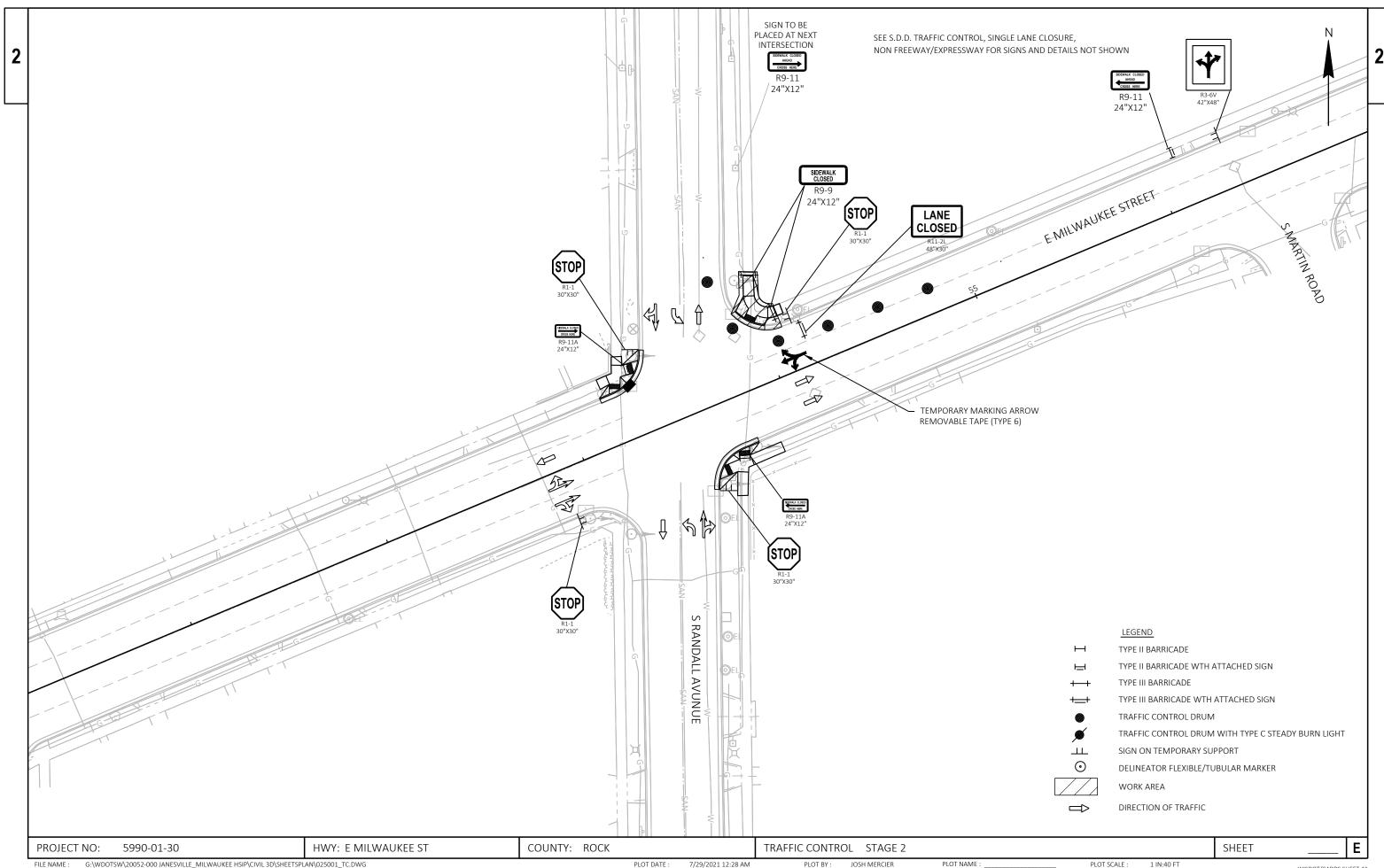
PLOT BY: JOSH MERCIER PLOT NAME:

1 IN:100 FT

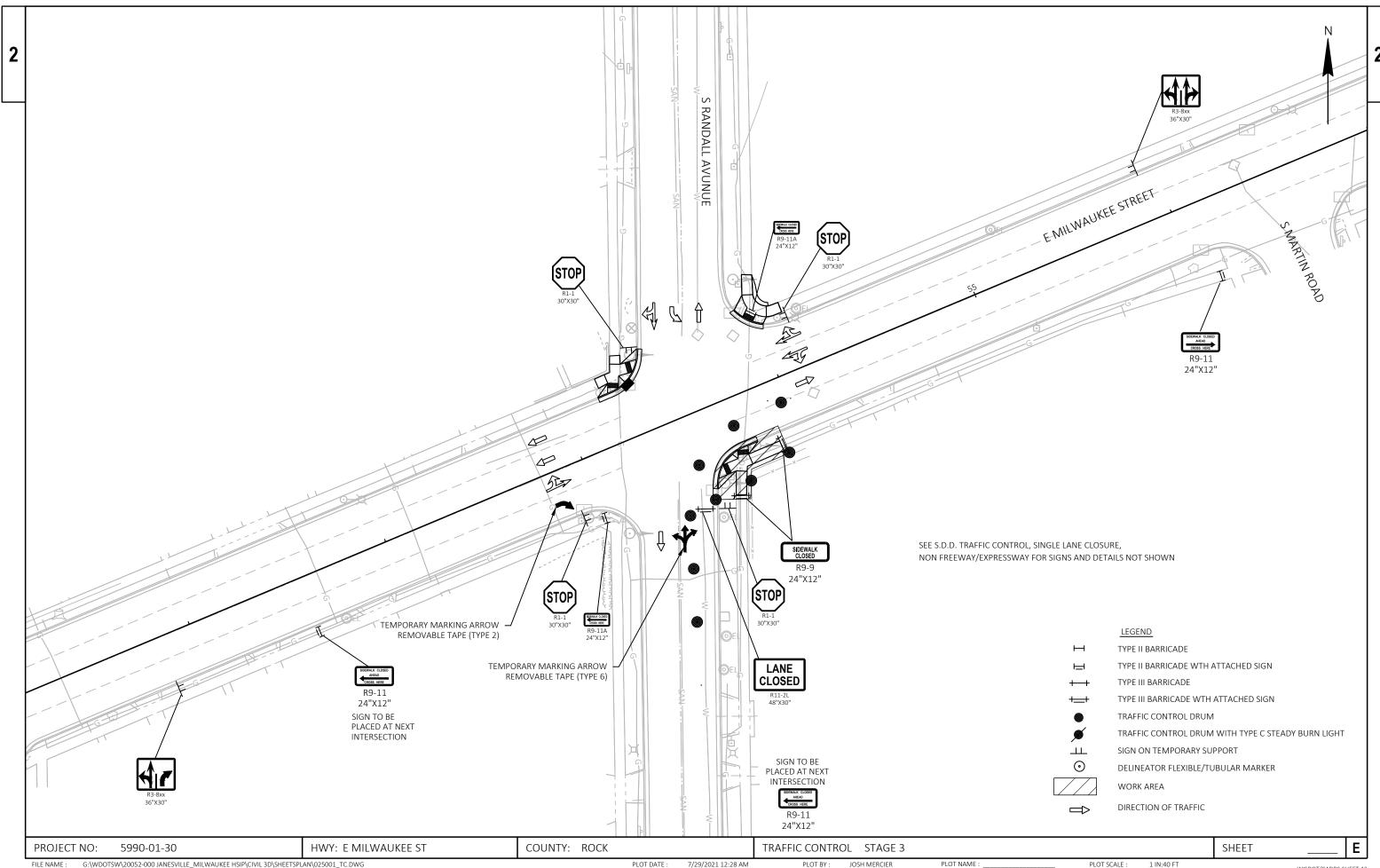
WISDOT/CADDS SHEET 42

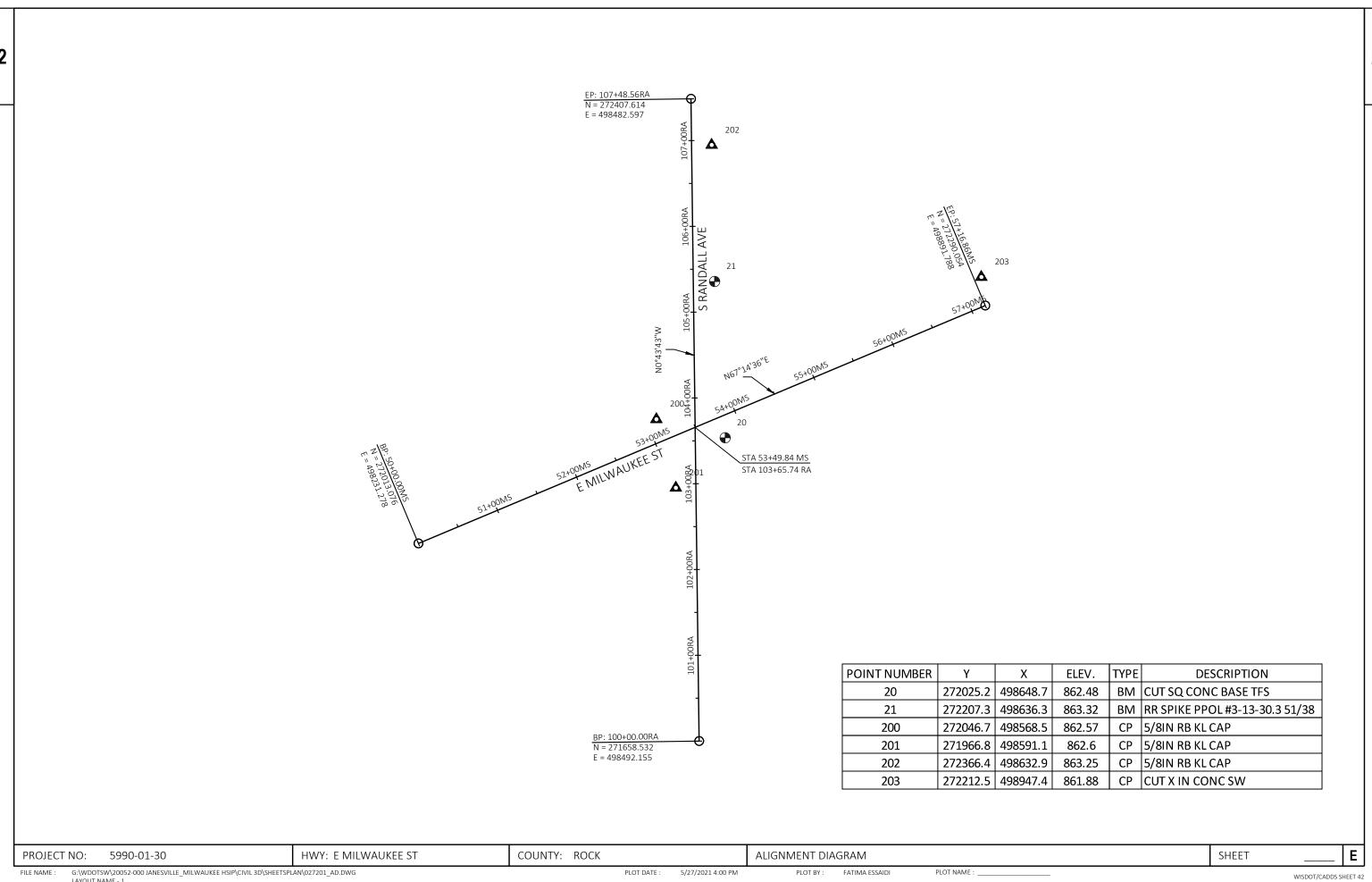
24"X12"





FILE NAME: G:\WDOTSW\20052-000 JANESVILLE\_MILWAUKEE HSIP\CIVIL 3D\SHEETSPLAN\025001\_TC.DWG PLOT DATE: 7/29/2021 12:28 AM PLOT BY: JOSH MERCIER
LAYOUT NAME - STAGE 2





3

5990-01-30

					5990-01-30	
Line	Item	Item Description	Unit	Total	Qty	
0002	204.0150	Removing Curb & Gutter	LF	93.000	93.000	
0004	204.0155	Removing Concrete Sidewalk	SY	68.000	68.000	
0006	204.0195	Removing Concrete Bases	EACH	8.000	8.000	
8000	205.0100	Excavation Common	CY	50.000	50.000	
0012	213.0100	Finishing Roadway (project) 01. 5990-01-30	EACH	1.000	1.000	
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	61.000	61.000	
0018	465.0105	Asphaltic Surface	TON	5.000	5.000	
0020	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	80.000	80.000	
0022	602.0405	Concrete Sidewalk 4-Inch	SF	257.000	257.000	
0024	602.0415	Concrete Sidewalk 6-Inch	SF	248.000	248.000	
0026	602.0420	Concrete Sidewalk 7-Inch	SF	132.000	132.000	
0028	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	50.000	50.000	
0030	611.0633	Inlet Covers Type HM-GJ-S	EACH	1.000	1.000	
0032	619.1000	Mobilization	EACH	0.300	0.300	
0034	624.0100	Water	MGAL	1.000	1.000	
0036	625.0500	Salvaged Topsoil	SY	28.000	28.000	
0038	627.0200	Mulching	SY	28.000	28.000	
0040	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0042	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0044	628.2008	Erosion Mat Urban Class I Type B	SY	28.000	28.000	
0046	628.7015	Inlet Protection Type C	EACH	4.000	4.000	
0048	629.0205	Fertilizer Type A	CWT	0.020	0.020	
0050	630.0140	Seeding Mixture No. 40	LB	0.500	0.500	
0052	637.2210	Signs Type II Reflective H	SF	4.000	4.000	
0054	637.2215	Signs Type II Reflective H Folding	SF	20.720	20.720	
0058	638.2602	Removing Signs Type II	EACH	5.000	5.000	
0060	642.5001	Field Office Type B	EACH	0.300	0.300	
0062	643.0300	Traffic Control Drums	DAY	700.000	700.000	
0064	643.0410	Traffic Control Barricades Type II	DAY	127.000	127.000	
0066	643.0420	Traffic Control Barricades Type III	DAY	151.000	151.000	
0068	643.0705	Traffic Control Warning Lights Type A	DAY	92.000	92.000	
0070	643.0715	Traffic Control Warning Lights Type C	DAY	175.000	175.000	
0072	643.0900	Traffic Control Signs	DAY	713.000	713.000	
0074	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000	
0076	643.5000	Traffic Control	EACH	0.300	0.300	
0078	646.1020	Marking Line Epoxy 4-Inch	LF	876.000	876.000	
0800	646.3020	Marking Line Epoxy 8-Inch	LF	270.000	270.000	
0082	646.5020	Marking Arrow Epoxy	EACH	4.000	4.000	
0086	646.6120	Marking Stop Line Epoxy 18-Inch	LF	98.000	98.000	
8800	646.7405	Marking Crosswalk Paint Transverse Line 6-Inch	LF	384.000	384.000	
0090	646.8120	Marking Curb Epoxy	LF	65.000	65.000	
0094	646.9110	Marking Removal Line Water Blasting 8-Inch	LF	1,146.000	1,146.000	
0096	646.9310	Marking Removal Special Marking Water Blasting	EACH	7.000	7.000	
0098	649.0550	Temporary Marking Arrow Removable Tape	EACH	5.000	5.000	
0100	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	400.000	400.000	
0102	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	390.000	390.000	
0104	652.0605	Conduit Special 2-Inch	LF	200.000	200.000	
0106	652.0615	Conduit Special 3-Inch	LF	455.000	455.000	
0108	652.0800	Conduit Loop Detector	LF	1,432.000	1,432.000	

5990-01-30

Line         Item         Item Description         Unit         Total         Qty           0110         652.0900         Loop Detector Slots         LF         1,083.000         1,083.000           0112         653.0154         Pull Boxes Non-Conductive 24x42-Inch         EACH         6.000         6.000           0114         653.0164         Pull Boxes Non-Conductive 24x42-Inch         EACH         8.000         8.000           0116         653.0905         Removing Pull Boxes         EACH         12.000         12.000           0118         654.0101         Concrete Bases Type 1         EACH         3.000         3.000           0120         654.0102         Concrete Control Cabinet Bases Type 9 Special         EACH         7.000         7.000           0128         654.0217         Concrete Control Cabinet Bases Type 9 Special         EACH         1.000         1.000           0130         655.0230         Cable Traffic Signal 1-14 AWG         LF         589.000         589.000           0132         655.0260         Cable Traffic Signal 12-14 AWG         LF         1,577.000         1,577.000           0136         655.0305         Cable Type UF 2-12 AWG Grounded         LF         1,067.000         1,067.000           <
0112         653.0154         Pull Boxes Non-Conductive 24x36-Inch         EACH         6.000         6.000           0114         653.0164         Pull Boxes Non-Conductive 24x42-Inch         EACH         8.000         8.000           0116         653.0905         Removing Pull Boxes         EACH         12.000         12.000           0118         654.0101         Concrete Bases Type 1         EACH         3.000         3.000           0120         654.0102         Concrete Bases Type 2         EACH         7.000         7.000           0128         654.0217         Concrete Control Cabinet Bases Type 9 Special         EACH         1.000         1.000           0130         655.0230         Cable Traffic Signal 5-14 AWG         LF         589.000         589.000           0132         655.0260         Cable Type UF 2-12 AWG Grounded         LF         1,577.000         1,577.000           0136         655.0305         Cable Type UF 2-12 AWG Grounded         LF         1,067.000         1,067.000           0140         655.0515         Electrical Wire Traffic Signals 10 AWG         LF         1,067.000         1,067.000           0142         655.0700         Loop Detector Lead In Cable         LF         3,349.000         3,349.000
0112         653.0154         Pull Boxes Non-Conductive 24x36-Inch         EACH         6.000         6.000           0114         653.0164         Pull Boxes Non-Conductive 24x42-Inch         EACH         8.000         8.000           0116         653.0905         Removing Pull Boxes         EACH         12.000         12.000           0118         654.0101         Concrete Bases Type 1         EACH         3.000         3.000           0120         654.0102         Concrete Bases Type 2         EACH         7.000         7.000           0128         654.0217         Concrete Control Cabinet Bases Type 9 Special         EACH         1.000         1.000           0130         655.0230         Cable Traffic Signal 5-14 AWG         LF         589.000         589.000           0132         655.0260         Cable Traffic Signals 12-14 AWG         LF         1,577.000         1,577.000           0136         655.0305         Cable Type UF 2-12 AWG Grounded         LF         1,067.000         141.000           0138         655.0515         Electrical Wire Traffic Signals 10 AWG         LF         1,067.000         117.000           0140         655.0610         Electrical Wire Lighting 12 AWG         LF         1,340.000         3,349.000
0114         653.0164         Pull Boxes Non-Conductive 24x42-Inch         EACH         8.000         8.000           0116         653.0905         Removing Pull Boxes         EACH         12.000         12.000           0118         654.0101         Concrete Bases Type 1         EACH         3.000         3.000           0120         654.0102         Concrete Bases Type 2         EACH         7.000         7.000           0128         654.0217         Concrete Control Cabinet Bases Type 9 Special         EACH         1.000         1.000           0130         655.0230         Cable Traffic Signal 5-14 AWG         LF         589.000         589.000           0132         655.0260         Cable Type UF 2-12 AWG Grounded         LF         1,577.000         1,577.000           0138         655.0305         Cable Type UF 2-12 AWG Grounded         LF         1,067.000         141.000           0140         655.0515         Electrical Wire Traffic Signals 10 AWG         LF         1,067.000         1,067.000           0140         655.0610         Electrical Wire Lighting 12 AWG         LF         3,349.000         3,349.000           0144         655.0800         Loop Detector Wire         LF         4,404.000         4,404.000
0116         653.0905         Removing Pull Boxes         EACH         12.000         12.000           0118         654.0101         Concrete Bases Type 1         EACH         3.000         3.000           0120         654.0102         Concrete Bases Type 2         EACH         7.000         7.000           0128         654.0217         Concrete Control Cabinet Bases Type 9 Special         EACH         1.000         1.000           0130         655.0230         Cable Traffic Signal 5-14 AWG         LF         589.000         589.000           0132         655.0260         Cable Traffic Signal 12-14 AWG         LF         1,577.000         1,577.000           0136         655.0305         Cable Type UF 2-12 AWG Grounded         LF         141.000         141.000           0138         655.0515         Electrical Wire Traffic Signals 10 AWG         LF         1,067.000         1,067.000           0140         655.0610         Electrical Wire Lighting 12 AWG         LF         117.000         117.000           0142         655.0700         Loop Detector Wire         LF         4,404.000         4,404.000           0146         655.0900         Traffic Signal EVP Detector Cable         LF         619.000         619.000
0118         654.0101         Concrete Bases Type 1         EACH         3.000         3.000           0120         654.0102         Concrete Bases Type 2         EACH         7.000         7.000           0128         654.0217         Concrete Control Cabinet Bases Type 9 Special         EACH         1.000         1.000           0130         655.0230         Cable Traffic Signal 5-14 AWG         LF         589.000         589.000           0132         655.0260         Cable Traffic Signal 12-14 AWG         LF         1,577.000         1,577.000           0136         655.0305         Cable Type UF 2-12 AWG Grounded         LF         141.000         141.000           0138         655.0515         Electrical Wire Traffic Signals 10 AWG         LF         1,067.000         1,067.000           0140         655.0610         Electrical Wire Lighting 12 AWG         LF         1,17.000         117.000           0142         655.0700         Loop Detector Lead In Cable         LF         3,349.000         3,349.000           0144         655.0800         Loop Detector Wire         LF         619.000         619.000           0150         656.0200         Electrical Service Meter Breaker Pedestal (location) 02. E Milwaukee St & Randall Ave         LS         1.00
0120         654.0102         Concrete Bases Type 2         EACH         7.000         7.000           0128         654.0217         Concrete Control Cabinet Bases Type 9 Special         EACH         1.000         1.000           0130         655.0230         Cable Traffic Signal 5-14 AWG         LF         589.000         589.000           0132         655.0260         Cable Traffic Signal 12-14 AWG         LF         1,577.000         1,577.000           0136         655.0305         Cable Type UF 2-12 AWG Grounded         LF         141.000         141.000           0138         655.0515         Electrical Wire Traffic Signals 10 AWG         LF         1,067.000         1,067.000           0140         655.0610         Electrical Wire Lighting 12 AWG         LF         117.000         117.000           0142         655.0700         Loop Detector Lead In Cable         LF         3,349.000         3,349.000           0144         655.0800         Loop Detector Wire         LF         4,404.000         4,404.000           0150         656.0200         Electrical Service Meter Breaker Pedestal (location) 02. E Milwaukee St & Randall Ave         LS         1.000         1.000           0154         657.0100         Pedestal Bases         EACH         7.000
0130         655.0230         Cable Traffic Signal 5-14 AWG         LF         589.000         589.000           0132         655.0260         Cable Traffic Signal 12-14 AWG         LF         1,577.000         1,577.000           0136         655.0305         Cable Type UF 2-12 AWG Grounded         LF         141.000         141.000           0138         655.0515         Electrical Wire Traffic Signals 10 AWG         LF         1,067.000         1,067.000           0140         655.0610         Electrical Wire Lighting 12 AWG         LF         117.000         117.000           0142         655.0700         Loop Detector Lead In Cable         LF         3,349.000         3,349.000           0144         655.0800         Loop Detector Wire         LF         4,404.000         4,404.000           0146         655.0900         Traffic Signal EVP Detector Cable         LF         619.000         619.000           0150         656.0200         Electrical Service Meter Breaker Pedestal (location) 02. E Milwaukee St & Randall Ave         LS         1.000         1.000           0152         657.0100         Pedestal Bases         EACH         7.000         7.000
0132         655.0260         Cable Traffic Signal 12-14 AWG         LF         1,577.000         1,577.000           0136         655.0305         Cable Type UF 2-12 AWG Grounded         LF         141.000         141.000           0138         655.0515         Electrical Wire Traffic Signals 10 AWG         LF         1,067.000         1,067.000           0140         655.0610         Electrical Wire Lighting 12 AWG         LF         117.000         117.000           0142         655.0700         Loop Detector Lead In Cable         LF         3,349.000         3,349.000           0144         655.0800         Loop Detector Wire         LF         4,404.000         4,404.000           0146         655.0900         Traffic Signal EVP Detector Cable         LF         619.000         619.000           0150         656.0200         Electrical Service Meter Breaker Pedestal (location) 02. E Milwaukee St & Randall Ave         LS         1.000         1.000           0152         657.0100         Pedestal Bases         EACH         3.000         3.000           0154         657.0255         Transformer Bases Breakaway 11 1/2-Inch Bolt Circle         EACH         7.000         7.000
0136         655.0305         Cable Type UF 2-12 AWG Grounded         LF         141.000         141.000           0138         655.0515         Electrical Wire Traffic Signals 10 AWG         LF         1,067.000         1,067.000           0140         655.0610         Electrical Wire Lighting 12 AWG         LF         117.000         117.000           0142         655.0700         Loop Detector Lead In Cable         LF         3,349.000         3,349.000           0144         655.0800         Loop Detector Wire         LF         4,404.000         4,404.000           0146         655.0900         Traffic Signal EVP Detector Cable         LF         619.000         619.000           0150         656.0200         Electrical Service Meter Breaker Pedestal (location) 02. E Milwaukee St & Randall Ave         LS         1.000         1.000           0152         657.0100         Pedestal Bases         EACH         3.000         3.000           0154         657.0255         Transformer Bases Breakaway 11 1/2-Inch Bolt Circle         EACH         7.000         7.000
0138         655.0515         Electrical Wire Traffic Signals 10 AWG         LF         1,067.000         1,067.000           0140         655.0610         Electrical Wire Lighting 12 AWG         LF         117.000         117.000           0142         655.0700         Loop Detector Lead In Cable         LF         3,349.000         3,349.000           0144         655.0800         Loop Detector Wire         LF         4,404.000         4,404.000           0146         655.0900         Traffic Signal EVP Detector Cable         LF         619.000         619.000           0150         656.0200         Electrical Service Meter Breaker Pedestal (location) 02. E Milwaukee St & Randall Ave         LS         1.000         1.000           0152         657.0100         Pedestal Bases         EACH         3.000         3.000           0154         657.0255         Transformer Bases Breakaway 11 1/2-Inch Bolt Circle         EACH         7.000         7.000
0138         655.0515         Electrical Wire Traffic Signals 10 AWG         LF         1,067.000         1,067.000           0140         655.0610         Electrical Wire Lighting 12 AWG         LF         117.000         117.000           0142         655.0700         Loop Detector Lead In Cable         LF         3,349.000         3,349.000           0144         655.0800         Loop Detector Wire         LF         4,404.000         4,404.000           0146         655.0900         Traffic Signal EVP Detector Cable         LF         619.000         619.000           0150         656.0200         Electrical Service Meter Breaker Pedestal (location) 02. E Milwaukee St & Randall Ave         LS         1.000         1.000           0152         657.0100         Pedestal Bases         EACH         3.000         3.000           0154         657.0255         Transformer Bases Breakaway 11 1/2-Inch Bolt Circle         EACH         7.000         7.000
0140         655.0610         Electrical Wire Lighting 12 AWG         LF         117.000         117.000           0142         655.0700         Loop Detector Lead In Cable         LF         3,349.000         3,349.000           0144         655.0800         Loop Detector Wire         LF         4,404.000         4,404.000           0146         655.0900         Traffic Signal EVP Detector Cable         LF         619.000         619.000           0150         656.0200         Electrical Service Meter Breaker Pedestal (location) 02. E Milwaukee St & Randall Ave         LS         1.000         1.000           0152         657.0100         Pedestal Bases         EACH         3.000         3.000           0154         657.0255         Transformer Bases Breakaway 11 1/2-Inch Bolt Circle         EACH         7.000         7.000
0142         655.0700         Loop Detector Lead In Cable         LF         3,349.000         3,349.000           0144         655.0800         Loop Detector Wire         LF         4,404.000         4,404.000           0146         655.0900         Traffic Signal EVP Detector Cable         LF         619.000         619.000           0150         656.0200         Electrical Service Meter Breaker Pedestal (location) 02. E Milwaukee St & Randall Ave         LS         1.000         1.000           0152         657.0100         Pedestal Bases         EACH         3.000         3.000           0154         657.0255         Transformer Bases Breakaway 11 1/2-Inch Bolt Circle         EACH         7.000         7.000
0144         655.0800         Loop Detector Wire         LF         4,404.000         4,404.000           0146         655.0900         Traffic Signal EVP Detector Cable         LF         619.000         619.000           0150         656.0200         Electrical Service Meter Breaker Pedestal (location) 02. E Milwaukee St & Randall Ave         LS         1.000         1.000           0152         657.0100         Pedestal Bases         EACH         3.000         3.000           0154         657.0255         Transformer Bases Breakaway 11 1/2-Inch Bolt Circle         EACH         7.000         7.000
0146         655.0900         Traffic Signal EVP Detector Cable         LF         619.000         619.000           0150         656.0200         Electrical Service Meter Breaker Pedestal (location) 02. E Milwaukee St & Randall Ave         LS         1.000         1.000           0152         657.0100         Pedestal Bases         EACH         3.000         3.000           0154         657.0255         Transformer Bases Breakaway 11 1/2-Inch Bolt Circle         EACH         7.000         7.000
0150         656.0200         Electrical Service Meter Breaker Pedestal (location) 02. E Milwaukee St & Randall Ave         LS         1.000         1.000           0152         657.0100         Pedestal Bases         EACH         3.000         3.000           0154         657.0255         Transformer Bases Breakaway 11 1/2-Inch Bolt Circle         EACH         7.000         7.000
0152         657.0100         Pedestal Bases         EACH         3.000         3.000           0154         657.0255         Transformer Bases Breakaway 11 1/2-Inch Bolt Circle         EACH         7.000         7.000
0154 657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle EACH 7.000 7.000
•
0156 657.0305 Poles Type 2 EACH 6.000 6.000
0158 657.0315 Poles Type 4 EACH 1.000 1.000
0168 657.0405 Traffic Signal Standards Aluminum 3.5-FT EACH 2.000 2.000
0170 657.0420 Traffic Signal Standards Aluminum 13-FT EACH 1.000 1.000
0184 657.0585 Trombone Arms 15-FT EACH 1.000 1.000
0186 657.0590 Trombone Arms 20-FT EACH 1.000 1.000
0188 657.0595 Trombone Arms 25-FT EACH 4.000 4.000
0190 657.0609 Luminaire Arms Single Member 4-Inch Clamp 6-FT EACH 1.000 1.000
0196 658.0173 Traffic Signal Face 3S 12-Inch EACH 10.000 10.000
0198 658.0174 Traffic Signal Face 4S 12-Inch EACH 6.000 6.000
0200 658.0416 Pedestrian Signal Face 16-Inch EACH 8.000 8.000
0204 658.5069 Signal Mounting Hardware (location) 02. E Milwaukee St & Randall Ave LS 1.000 1.000
0206 659.1115 Luminaires Utility LED A EACH 1.000 1.000
0210 690.0150 Sawing Asphalt LF 105.000 105.000
0210 690.0150 Sawing Asphalt LF 105.000 105.00
•
SPV.0060 Special 06. Traffic Signal Cabinet & Controller (E Milwaukee St & Randall Ave) EACH 1.000 1.000 SPV.0060 Special 07. Salvage Traffic Signals (E Milwaukee St & Randall Ave) EACH 1.000 1.000
· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·
0230 SPV.0060 Special 09. Furnish & Install APS Push Button System (E Milwaukee St & Randall Ave) EACH 1.000 1.000
0234 SPV.0060 Special 11. Construction Staking Project 5990-01-30 EACH 1.000 1.000
0236 SPV.0090 Special 01. Marking Crosswalk Epoxy Ladder Style 12-Inch LF 312.000 312.000

3	REMOVING CURB & GUTTER			EXCAVATION COM  LOCATION  NW QUADRANT NE QUADRANT SE QUADRANT PROJECT TOTAL	205.0100 (CY) 16 14 20 50	LOCATION  NW QUADRAN  NE QUADRAN  SE QUADRAN  PROJECT TOTA	T 16 T 27	624.0100  WATER (MGAL)  0.29 0.26 0.45  1.00
	REMOVING CONCRETE SIDEWALK   204.0155   REMOVING CONCRETE SIDEWALK   CONCRETE SIDEWALK   LOCATION (SY)				C	CU DET W CONCRETE CONCRETE SIDEWALK SIDEWALK N. 4-INCH 6-INCH 7-INCH	02.0515  RB RAMP ECTABLE FARNING FIELD ATURAL PATINA (SF)  20 10 20 50	
	SAWING CONCRETE AND ASPHALT		LOCATION  NW QUADRANT NE QUADRANT SE QUADRANT	601.0411 CONCRETE CURB& GUTTER 30-INCH TYPE D (LF)  32 16 32 80		ASI SL	95.0105 PHALTIC RFACE (TON) 2 1 2 5	
PROJ	JECT NO: 5990-01-30	HWY: E MILWAUKEE ST	COU	NTY: ROCK	MISCELLANEOUS	QUANTITIES	SHEET	E

#### 3

TRAFFIC CONTROL

<u>INLET PROTECTION</u> 643.0300 643.0410 643.0900 643.1050 643.0705 643.0715 649.0550

			628.7015 INLET
			PROTECTION TYPE C
	STA	OFFSET	(EACH)
CATEGORY 1000			
	52+92.00	22' RT	1
	53+33.00	24' LT	1
	53+52.00	37' RT	1
	53+91.50	36' LT	1
PROJECT TOTAL			4

PROJECT TOTAL		700	151	127	713	14	92	175	5
STAGE 3	13	260	52	39	273	-	26	65	2
STAGE 2	11	220	44	44	209	-	22	55	1
STAGE 1	11	220	55	44	231	-	44	55	2
PRE-CONSTRUCTION	7	-	-	-	-	14	-	-	-
	# OF DAYS	(DAYS)	(DAYS)	(DAYS)	(DAYS)	(DAYS)	(DAYS)	(DAYS)	(EA)
		DRUMS	TYPE III	TYPE II	SIGNS	SIGNS	TYPE A	TYPE C	TAPE
				BARRICADES		PCMS	LIGHTS	LIGHTS	REMOVA
					TRAFFIC		WARNING	WARNING	ARROV
							CONTROL	CONTROL	MARKIN
							TRAFFIC	TRAFFIC	TEMPOR/

PERMANENT SIGNING TYPE II

INLET COVERS								
STA	OFFSET	611.0633 INLET COVERS TYPE HM-GJ-S (EACH)						
53+25.00	25' LT	1						
PROJECT TOTAL		1						

#### 

EROSION CONTROL ITEMS

				637.2210	637.2215	638.2602		
			SIGN		SIGNS TYPE II	REMOVING	SIGN	
			SIZE	SIGNS TYPE II	REFLECTIVE H	SIGNS	MOUNTED	
	SIGN	SIGN	WXH	REFLECTIVE H	FOLDING	TYPE II	ON/SAME	
	#	CODE	IN	SF	SF	EACH	POST AS	REMARKS
	1-01	R5-2	24X24	4.00			SIGNAL	NO TRUCKS SYMBOL
	1-02	R1-1F	30X30		5.18		SIGNAL	STOP SIGN (FOLDING)
	1-03	R1-1F	30X30		5.18		SIGNAL	STOP SIGN (FOLDING)
	1-04	R1-1F	30X30		5.18		SIGNAL	STOP SIGN (FOLDING)
	1-05	R1-1F	30X30		5.18		SIGNAL	STOP SIGN (FOLDING)
	1R-01	R5-2	24X24			1	SIGNAL	NO TRUCKS SYMBOL
	1R-02	R1-1F	30X30			1	SIGNAL	STOP SIGN (FOLDING)
	1R-03	R1-1F	30X30			1	SIGNAL	STOP SIGN (FOLDING)
	1R-04	R1-1F	30X30			1	SIGNAL	STOP SIGN (FOLDING)
	1R-05	R1-1F	30X30			1	SIGNAL	STOP SIGN (FOLDING)
_				4.00	20.72	5		

#### PAVEMENT MARKING

	646.1020	646.3020	646.9310	646.5020	646.7405	646.6120	646.8120	646.9110	SPV.0090.01
LOCATION	MARKING LINE EPOXY 4-INCH YELLOW (LF)	MARKING LINE EPOXY 8-INCH WHITE (LF)	MARKING REMOVAL SPECIAL MARKING WATER BLASTING (EA)	MARKING ARROW EPOXY (EA)	MARKING CROSSWALK PAINT TRANSVERSE LINE 6-INCH	MARKING STOP LINE EPOXY 18-INCH (LF)	MARKING CURB EPOXY (LF)	MARKING REMOVAL LINE WATER BLASTING 8-INCH (EA)	MARKING CROSSWALK EPOXY LADDER STYLE 12-INCH
LOCATION	(LF)	(LF)	(EA)	(EA)	(LF)	(LF)	(LF)	(EA)	(LF)
101+04 TO 103+25 104+05 TO 106+25	438 438	- -	-	-	- -	-	- -	438 438	- -
101+92 TO 103+25	-	135	-	-	-	-	-	135	-
104+05 TO 105+37	-	135	-	-	-	-	-	135	-
NW QUADRANT	-	-	4	2	197	24	23	-	84
NE QUADRANT	-	-	-	-	-	24	16	-	72
SE QUADRANT	-	-	3	2	187	24	26	-	78
SW QUADRANT	-	-	-	-	-	26	-	-	78
PROJECT TOTAL	876	270	7	4	384	98	65	1146	312

#### LANDSCAPING ITEMS

	625.0500	627.0200	628.2008	629.0205	630.0140
	SALVAGED TOPSOIL	MULCHING	EROSION MAT URBAN CLASS I TYPE B	FERTILIZER TYPE A	SEEDING MIXTURE NO. 40
LOCATION	(SY)	(SY)	(SY)	(CWT)	(LB)
NW QUADRANT NE QUADRANT SE QUADRANT	3 13 12	3 13 12	3 13 12	0.00 0.01 0.01	0.1 0.2 0.2
PROJECT TOTAL	28	28	28	0.020	0.5

PROJECT NO: 5990-01-30 HWY: E MILWAUKEE ST COUNTY: ROCK MISCELLANEOUS QUANTITIES SHEET E

#### TRAFFIC SIGNAL REMOVALS

LOCATION / ITEM NUMBER	204.0195 REMOVING CONCRETE BASES EACH	653.0905 REMOVING PULL BOXES EACH
E MILWAUKEE ST & RANDALL AVE		
SB1	1	
SB2	1	
SB3	1	
SB4	1	
	1	
SB5	1	
SB6	1	
SB7	1	
SB8	1	<del></del>
PB1		1
PB2		1
PB3		1
PB4		1
PB5		1
PB6		1
PB7		1
PB8		1
PB9		1
PB10		1
PB11		1
PB12	-	1
INTERSECTION TOTAL	8	12

#### TRAFFIC SIGNAL PULL BOXES

653.0154	653.016
----------	---------

		PULL BOXES NO	N-CONDUCTIVE		
LOCATION / PULL				24X36-INCH	24X42-INCH
<b>BOX NUMBER</b>	STATION	OFFSET	L/R	EACH	EACH
E MILWAUKEE ST &	RANDALL AVE				
PB1	103+19'SRNDLAVE'	23.4'	R		1
PB2	103+07'SRNDLAVE'	20.9'	R	1	
PB3	103+00'SRNDLAVE'	26.7'	L		1
PB4	52+83'EMWST'	25.8'	R		1
PB5	52+77'EMWST'	25.8'	R	1	
PB6	50+79'EMWST'	26.1'	R	1	
PB7	53+06'EMWST'	26.0'	L		1
PB8	104+13'SRNDLAVE'	24.8'	L		1
PB9	104+22'SRNDLAVE'	23.3'	L	1	
PB10	104+28'SRNDLAVE'	26.1	R		1
PB11	54+14'EMWST'	26.1'	L		1
PB12	54+25'EMWST'	25.7'	L	1	
PB13	56+12'EMWST'	26.0'	L	1	
PB14	53+88'EMWST'	25.9'	R		1
INTERSECTION TO	ΓAL			6	8

#### **TRAFFIC SIGNAL CONDUIT**

				652.0225	652.0235	652.0605	652.0615
					NONMETALLIC		NDUIT
				SCHEI 2-INCH	DULE 40		CIAL
					3-INCH	2-INCH	3-INCH
LOCATION	FROM	-	TO	LF	LF	LF	<u>LF</u>
E MILWAUKEE	ST & RAI	NDA	LL AVE				
	CB1	_	PB1		25		
	PB1	_	PB2	15			
	PB1	_	PB3				110
	PB3	-	SB1	15			
	PB3	-	PB4		70		
	PB4	-	SB2	10	_		
	PB4	-	PB5	10	_		-
	PB5	-	PB6			200	-
	PB4	-	PB7				115
	PB7	-	SB3	20			
	PB7	-	PB8		115		-
	PB8	-	SB4	20			
	PB8	-	PB9	10			
	PB8	-	PB10				110
	PB10	-	SB5	5			
	PB10	-	PB11		60		
	PB11	-	SB6	10			
	PB11	-	SB7	5			
	PB11	-	PB12	15			-
	PB12	-	PB13	190	<u></u>		
	PB11	-	PB14				120
	PB14	-	SB8	15			-
	PB14	-	SB9	25			-
	PB14	-	SB10	35			-
	PB14	-	CB1		120		
INTERSECTION	I TOTAL			400	390	200	455

Ε HWY: E MILWAUKEE ST COUNTY: ROCK MISCELLANEOUS QUANTITIES SHEET PROJECT NO: 5990-01-30

FILE NAME : G:\WDOTSW\20052-000 JANESVILLE\_MILWAUKEE HSIP\CIVIL 3D\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 01

PLOT DATE : 7/29/2021 3:58 PM

PLOT BY: JARED BALTES

PLOT NAME :

PLOT SCALE : 1 IN:1 FT

#### TRAFFIC SIGNAL LOOP DETECTORS

							652.0900	652.0800	655.0800	655.0700*
							LOOP DETECTOR	CONDUIT	LOOF	PIDETECTOR
				SIZE	NO. OF		SLOTS	LOOP DETECTOR	WIRE	LEAD IN CABLE
LOCATION / LOOP NO.	STATION	OFFSET	L/R	FT X FT	TURNS	INSTALLATION METHOD	LF	LF	LF	LF
E MILWAUKEE ST & RA	ANDALL AVE									
11	50+77'EMWST'	10.1'	R	18 X 6	3	SPECIAL LOOP DETECTOR DETAIL	51	62	192	300
12	52+81'EMWST'	5.5'	R	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	66	88	270	101
13	52+76'EMWST'	16.6'	R	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	55	66	204	101
14	53+09'EMWST'	5.5'	R	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	69	94	288	101
15	53+04'EMWST'	16.7'	R	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	56	72	222	101
21	56+21'EMWST'	10.0'	L	18 X 6	3	SPECIAL LOOP DETECTOR DETAIL	53	70	216	295
22	54+18'EMWST'	5.5'	L	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	67	90	276	108
23	54+23'EMWST'	17.6'	L	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	54	64	198	108
24	53+90'EMWST'	5.5'	L	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	70	98	300	108
25	53+95'EMWST'	18.0'	L	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	55	74	228	108
41	104+29'SRNDLAVE'	1.3'	L	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	67	94	288	188
42	104+25'SRNDLAVE'	12.3'	L	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	55	70	216	188
43	104+01'SRNDLAVE'	1.6'	L	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	66	90	276	188
44	103+97'SRNDLAVE'	12.5'	L	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	55	70	216	188
81	103+01'SRNDLAVE'	1.2'	L	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	67	94	288	21
82	103+05'SRNDLAVE'	9.7'	R	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	55	70	216	21
83	103+29'SRNDLAVE'	1.3'	L	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	66	92	282	21
84	103+33'SRNDLAVE'	9.6'	R	20 X 6	3	SPECIAL LOOP DETECTOR DETAIL	56	74	228	21
INTERSECTION TOTAL							1083	1432	4404	2267
*ADDITIONAL QUANTITI	IES SHOWN ELSEWH	ERE.								

#### TRAFFIC SIGNAL STRUCTURES

				654.0101	654.0102	657.0100	657.0255 TRANSFORMER BASES	657.0305	657.0315	657.0405 TRAFFIC SIGNA	657.0420 AL STANDARDS	657.0585	657.0590	657.0595	657.0609 LUMINAIRE ARMS	659.1115 LUMINAIRES
				CONCRE	TE BASES	PEDESTAL	BREAKAWAY 11 1/2-INCH	PO	LES	ALUM	1INUM	TRO	MBONE A	RMS	SINGLE MEMBER	UTILITY
LOCATION / BASE	<b>=</b>			TYPE 1	TYPE 2	BASES	BOLT CIRCLE	TYPE 2	TYPE 4	3.5-FT	13-FT	15-FT	20-FT	25-FT	4-INCH CLAMP 6-FT	LED A
NUMBER	STATION	OFFSET	L/R	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
	T & RANDALL AVE															
		20.71			4		4	4				4				
SB1	103+14'SRNDLAVE'	26.7'	L		1	<del></del>	1	1	_	_	<del></del>	1		-		
SB2	52+93'EMWST'	26.7'	R	1		1		-	-	-	1			-		-
SB3	53+23'EMWST'	27.1'	L		1		1	1		_				1		
SB4	103+93'SRNDLAVE'	26.9'	L		1		1	1	_	-				1		-
SB5	104+24'SRNDLAVE'	28.9'	R		1		1	1	-	-			1	_		
SB6	54+10'EMWST'	33.5'	L	1		1				1				-		_
SB7	54+18'EMWST'	25.9'	L		1		1		1	_				-	1	1
SB8	53+74'EMWST'	27.0'	R		1		1	1		-				1		
SB9	53+67'EMWST'	27.1'	R	1		1				1						
SB10	103+39'SRNDLAVE'	25.3'	R	-	1		1	1	-	-				1		
INTERSECTION 1	TOTAL			3	7	3	7	6	1	2	1	1	1	4	1	1

E COUNTY: ROCK MISCELLANEOUS QUANTITIES SHEET PROJECT NO: 5990-01-30 HWY: E MILWAUKEE ST FILE NAME : G:\WDOTSW\20052-000 JANESVILLE\_MILWAUKEE HSIP\CIVIL 3D\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 02 PLOT DATE : 7/30/2021 9:51 AM PLOT BY: KEVIN WEHNER PLOT NAME : PLOT SCALE : 1 IN:1 FT WISDOT/CADDS SHEET 42

Г			<u></u>	RAFFIC SIGN	AL HEADS								
		LOCATIO	SIGNAL	<u>T</u> HEAD	658.0173 658.0174  RAFFIC SIGNAL FACE  3S 4S  12-INCH 12-INCH	SIGNAL FACE 16-INCH							
		LOCATIO			EACH EACH	EACH							
7		E MILWAUKE	E ST & RANDALL A' SB1	VE 7	1 -				TRAFFIC SIGNA	L CABLE AND WIRI	E - ABOVE GROUND		
				8 4B	1	1				655.0230	655.0610	655.0700*	655.0900*
3			SB2 SB3	11 1A 15	1 -  - 1	1				SIGNAL 5-14 AWG	LIGHTING 12 AWG	LEAD IN CABLE	TRAFFIC SIGNAL EVP DETECTOR CABLE
				16 2B	1 –	 1		LOCATION FROM SIGNAL BASE -	TO SIGNAL HEAD	LF	LF	LF	LF
			SB4	4 5	- 1 - 1	 		E MILWAUKEE ST & RANDALL AVE SB1 -	7	35		-	
				6 4A	1	1		-	8 4B BUTTON	19 15 	 	  6	<del></del> 
			SB5	3	1 – 1 –	  			HEAD D	  19	<u>-</u>	<u></u>	28
			SB7	8B 14	1 -	<u> </u>		582 -	1A BUTTON	15 	<del>-</del> 	  6	 
			SB8	2A 12	 - 1	1 		SB3 -	15 16	43 32	  	 	
			0.040	13 1B	1	1		-	2B	15 		  6	
			SB10	1 9	1 - 1	 		- - SB4 -	HEAD B	 22	-		38
				10 8A	1 	1		- 354	5	45 19	 	 	 
		INTERSECTI	ON TOTAL		10 6	8		-	4A BUTTON	15 	 	 6	 
			TRAFFIC SIGNA	L CABLE AND	WIRE - BELOW GROU	<u>IND</u>		SB5 -	2	39 19	 	 	  
			655.0260 CABLE TRAFFIC SIGNAL		655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS	655.0700*  LOOP DETECTOR	655.0900* TRAFFIC SIGNAL EVP	-	8B BUTTON	15 		 6	
	LOCATION FROM	-	12-14 AWG LF	GROUNDED LF	10 AWG LF	LEAD IN CABLE LF	DETECTOR CABLE LF	- SB6 - SB7 -	HEAD C BUTTON 14	  19	  	 6 	30  
E	MILWAUKEE ST & RANI	DALL AVE						- 357		15 	  117		
	CB1 CB1	- SB2	119 164	 	119 <del></del>	89 119	89 	SB8 -	12	43 32	 	 	  
	CB1 CB1	- SB4	241 287	 		181 212	181 	-	1B	15 	<u></u>	 	 38
	CB1	- SB6	188 146		<del></del>	143 116	143 	SB9 - SB10 -	BUTTON	 19	 	6 	<u></u>
	CB1 CB1	- SB8	141 87	141 	 	- -	 72	-	4.0	19 45			 
	CB1 CB1	- SB10	97 107		107 06	82 92	 	-	DUTTON	15 		 6	 
	SB1 SB2	- SB3	<del></del> 	<del></del> 	96 124	- -		INTERSECTION TOTAL		589	117	48	134
	SB3 SB4 SB5	- SB5	  	  	132 117 78	- - -	  	*ADDITIONAL QUANTITIES SHOWN ELSE	EWHERE.				
	SB6 SB7	- SB7	 	 	36 116		  						
	SB7 SB8 SB9	- SB9	 	 	61 81	 	 						
	TERSECTION TOTAL DDITIONAL QUANTITIES	SHOWN FLSE	<b>1577</b> =WHERE	141	1067	1034	485						
-	ROJECT NO: 5990-			HWY: E MILV	VAUKEE ST	COUNTY:	ROCK	MISCELLANEOUS QUANTIT	ΓΙΕS			SHEET	E
FILI	G:\WDOTSW\20052-00	00 JANESVILLE_MILWAU	UKEE HSIP\CIVIL 3D\SHEETSPLA	N\030201-MQ.DWG		I	PLOT DATE : 7/2	28/2021 7:40 PM PLOT BY: JARED BALTES	PLOT NAME :	:	PLOT SCALE : 1 IN:	L FT	WISDOT/CADDS SHEET 4:

FILE NAME : G:\WDOTSW\20052-000 JANESVILLE\_MILWAUKEE HSIP\CIVIL 3D\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 03

SALVAGE TRAFFIC SIGNALS	TRAFFIC SIGNAL CONTROL
SPV.0060.07 SALVAGE TRAFFIC SIGNALS (E MILWAUKEE ST & RANDALL AVE) E MILWAUKEE ST & RANDALL AVE  INTERSECTION TOTAL  SPV.0060.07 SALVAGE TRAFFIC SIGNALS (E MILWAUKEE ST & RANDALL AVE)  1 INTERSECTION TOTAL	E MILWAUKEE ST & RANDALL AVE CB1  INTERSECTION TOTAL  654.0217  CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH  1  INTERSECTION TOTAL  1
EMERGENCY VEHICLE PREEMPTION	ACCESSIBLE PEDESTRIAN SIGNALS
SPV.0060.08 FURNISH & INSTALL EVP SYSTEM (E MILWAUKEE ST & RANDALL AVE) EACH  E MILWAUKEE ST & RANDALL AVE  INTERSECTION TOTAL  SPV.0060.08 FURNISH & INSTALL EVP SYSTEM (E MILWAUKEE ST & RANDALL AVE)  1  INTERSECTION TOTAL	SPV.0060.09 FURNISH & INSTALL AUDIBLE PEDESTRIAN BUTTON SYSTEM (E MILWAUKEE ST & RANDALL AVE) E MILWAUKEE ST & RANDALL AVE  INTERSECTION TOTAL  SPV.0060.09 FURNISH & INSTALL AUDIBLE PEDESTRIAN BUTTON SYSTEM (E MILWAUKEE ST & RANDALL AVE)  E MILWAUKEE ST & RANDALL AVE  1
TRAFFIC SIGNAL CABINET	TRAFFIC SIGNAL MOUNTING HARDWARE
656.0200.02 SPV.0060.06 ELECTRICAL SERVICE TRAFFIC SIGNAL METER BREAKER PEDESTAL CABINET & CONTROLLER (E MILWAUKEE ST & RANDALL AVE) LS EACH  E MILWAUKEE ST & RANDALL AVE  1 1	658.5069.02 SIGNAL MOUNTING HARDWARE (E MILWAUKEE ST & RANDALL AVE) LOCATION LS  E MILWAUKEE ST & RANDALL AVE 1
INTERSECTION TOTAL 1 1	INTERSECTION TOTAL 1

FILE NAME: G:\WDOTSW\20052-000 JANESVILLE\_MILWAUKEE HSIP\CIVIL 3D\SHEETSPLAN\030201-MQ.DWG PLOT DATE: 7/29/2021 11:40 AM PLOT BY: JARED BALTES PLOT NAME: PLOT SCALE: 1 IN:1 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 04

192

2175494



TRANSPORTATION PROJECT PLAT NO: 5990-01-29 - 4.01 THAT PART OF LOT 3 CERTIFIED SURVEY MAP 1316666 RECORDED IN VOLUME 19, PAGE 499 AS DOCUMENT NO. 1316666. LOCATED IN AND INCLUDING PART OF THE NW 1/4 OF THE SE 1/4, SECTION 30, T3N, R13E, CITY OF JANESVILLE, ROCK

RELOCATION ORDER: CITY OF JANESVILLE, E MILWAUKEE STREET, RANDALL AVENUE INTERSECTION, ROCK COUNTY.

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF JANESVILLE DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE-NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 62.22, WISCONSIN STATUTES, THE CITY OF JANESVILLE

EREBY ORDERS THAT: AID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE-NAMED PROJECT.
THAT PORTION OF SIAID HIGHWAY AS SHOWN ON THIS PLAT AIR REQUIRED BY THE CITY OF JANESVILLE FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF JANESVILLE, PURSUANT TO THE PROVISIONS OF SUBSECTION 62.22, WISCONSIN STATUTES.

JAYLEY, LLC

SIXTEENTH CORNER MONUMENT BUILDING (TO BE REMOVED) BRIDGE PARALLEL OFFSETS CONVENTIONAL ABBREVIATIONS ACCESS RIGHTS AHEAD POINT OF TANGENCY PROPERTY LINE ALUMINUM ALUM AND OTHERS RECORDED AS (100') BACK REEL / IMAGE BLOCK REFERENCE LINE CENTERLINE PERMANENT LIMITED FASEMENT CERTIFIED SURVEY MAP CONCRETE CONC POINT OF CURVATURE POINT OF COMPOUND CURVE COUNTY COUNTY TRUNK HIGHWAY POINT OF INTERSECTION DISTANCE REMAINING RESTRICTIVE DEVELOPMENT EASEMENT CORNER DOCUMENT NUMBER RIGHT OF WAY

SECTION

STATION

VOLUME

MON

SQUARE FEET STATE TRUNK HIGHWAY

TELEPHONE PEDESTAL

TEMPORARY LIMITED EASEMENT

TRANSPORTATION PROJECT PLAT

UNITED STATES HIGHWAY

CONVENTIONAL SYMBOLS

SECTION

NOTATION FOR

NOTATION FOR

HIGH VOLTAGE

TRANSMISSION

ACCESS RESTRICTED

ACCESS CONTROLLED BY ACQUISITION

(BY PREVIOUS PROJECT OR CONTROL)

NO ACCESS (NEW HIGHWAY)

NO ACCESS (BY STATUTORY AUTHORITY)

NATIONAL GEODETIC SURVEY MONUMENT

P.L.

R/W MONUMENT

SIGN

NON-MONUMENTED O

OFF-PREMISE (#1-25)

△

SECTION LINE

SIXTEENTH LINE

NEW R/W LINE

PROPERTY LINE

SLOPE INTERCEPT

CORPORATE LIMITS

FEE ACQUISITION AREA

UNDERGROUND FACILITY
(COMMUNICATIONS, ELECTRIC, ETC)

TEMP. LIMITED FASEMENT AREA

EASEMENT AREA (HIGHWAY,

PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)

TRANSMISSION STRUCTURES

BUILDING

EASEMENT EXISTING

GRID NORTH

IDENTIFICATION

LAND CONTRACT

MONUMENT

NUMBER

HIGHWAY EASEMEN

NATIONAL GEODETIC SURVEY

T158

T159

EXISTING R/W LINE

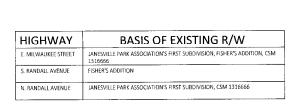
NEW REFERENCE LINE

LOT, TIE, AND OTHER MINOR LINES - - -

TLE Station & Offset Table Station Point No. T150 54+04.55 39.94 T151 54+10.02 53.53 T152 51.66 54+14.66 T153 54+09.94 39.94 T154 53+70.90 33.06' T155 33.06 53+93.99 53+93.99 38.06 T156 T157 53+74.28 38.06'

53+68 64

53+64.00



52 091

50.23'

RANDALL AVENUE T151 T152 BLOCK 4 3/4" RB TLE - GRADING T153 T150 LOT 5 LOT 4 STA. 53+84.19 OF NE-SW SEC. 30 NW-SE SEC. 30 T154 T157 T159 TLE - GRADING E. MILWAUKEE STREET T158 3/4" RB RANDALL AVENUE 1735. TO R/L UNPLATTED LANDS LOT 4 66' LOT 3 FISHER'S ADDITION

S88°45'23"E 2578.02'

SEC. COR. TO SEC. COR.

CURVE DATA ABBREVIATIONS

NOT RECOVERED
COUNTY COORDINATES

70'

Y = 275607.500

X = 498592.100

19

30

CSM 1316666

V. 19 P. 499

DOC. 1316666

ONG CHORD ONG CHORD BEARING

DEGREE OF CURVE

CENTRAL ANGLE LENGTH OF CURVE TANGENT

DIRECTION AHEAD

DIRECTION BACK

CONVENTIONAL UTILITY SYMBOLS

JANESVILLE PARK ASSOCIATION'S

FIRST SUBDIVISION

ELECTRIC TOWER

#### OWNER'S NAMES ARE SHOWN FOR REFERENCE **SCHEDULE OF LANDS &** PURPOSES ONLY AND ARE SUBJECT TO CHANG PRIOR TO THE TRANSFER OF LAND INTERESTS INTERESTS REQUIRED TO THE CITY OF JANESVILLE R/W S.F. REQUIRED INTEREST PARCEL OWNER(S) NUMBER REQUIRED NEW EXISTING TOTAL FIRST EVANGELICAL LUTHERAN CHURCH OF JANESVILLE, WISCONSIN

#### NOTES:

POSITIONS SHOWN ON THIS PLAL ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), ROCK COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND

TLE

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THERON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THERON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES. EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE CITY OF JANESVILLE.

NOT TO SCALE

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION.



LOCATION SKETCH

Engineering

I, TIMOTHY M. HELD, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND LINDER THE DIRECTION OF THE CITY OF JANESVILLE, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYE

SIGNATURE:

TIMOTHY I

PRINT NAME: TIMOTHY M. HELD REGISTRATION NUMBER: S-2591 THIS PLAT AND RELOCATION ORDER ARE APPROVED

FOR THE CITY OF JANESVILLE.

PRINT NAME: PAUL WOODARD

. M. BU DATE: 12/21/2020

DRILL HOLE FOLIND

Y = 270370.859

X = 496093.820

/ 25 30 \3

36 31 /

SURVEY NAIL FOUND

Y = 270314.903

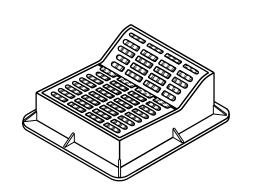
X - 498671.234

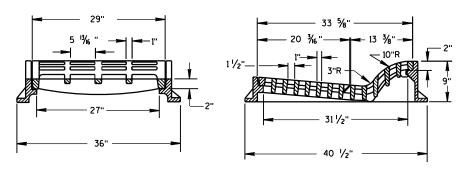
30

# Standard Detail Drawing List

08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08D01-22A	CONCRETE CURB & GUTTER
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E10-02	INLET PROTECTION TYPE A, B, C AND D
09B02-10	CONDUI T
09B16-01	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09E01-15A	POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2
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.
09F13-04	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
11B02-02	CONCRETE MEDIAN NOSE
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-05	MEDIAN ISLAND MARKING
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D20-05A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D30-06A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-06B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-06C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

6

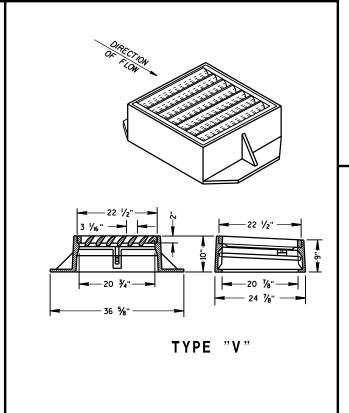




TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

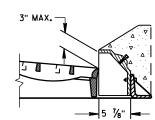
# 25 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 35" 35" TYPE "S"



# GENERAL NOTES

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

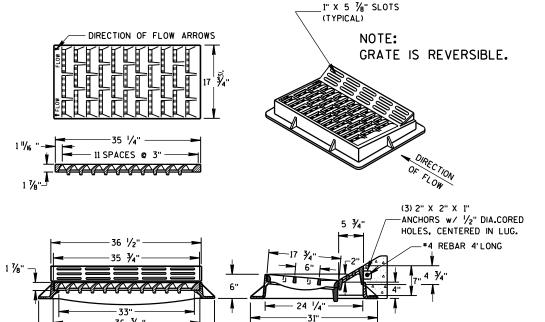
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



# ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

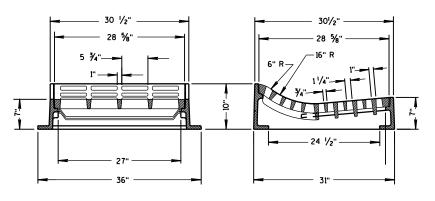
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE



# TYPE "HM"

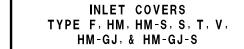
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



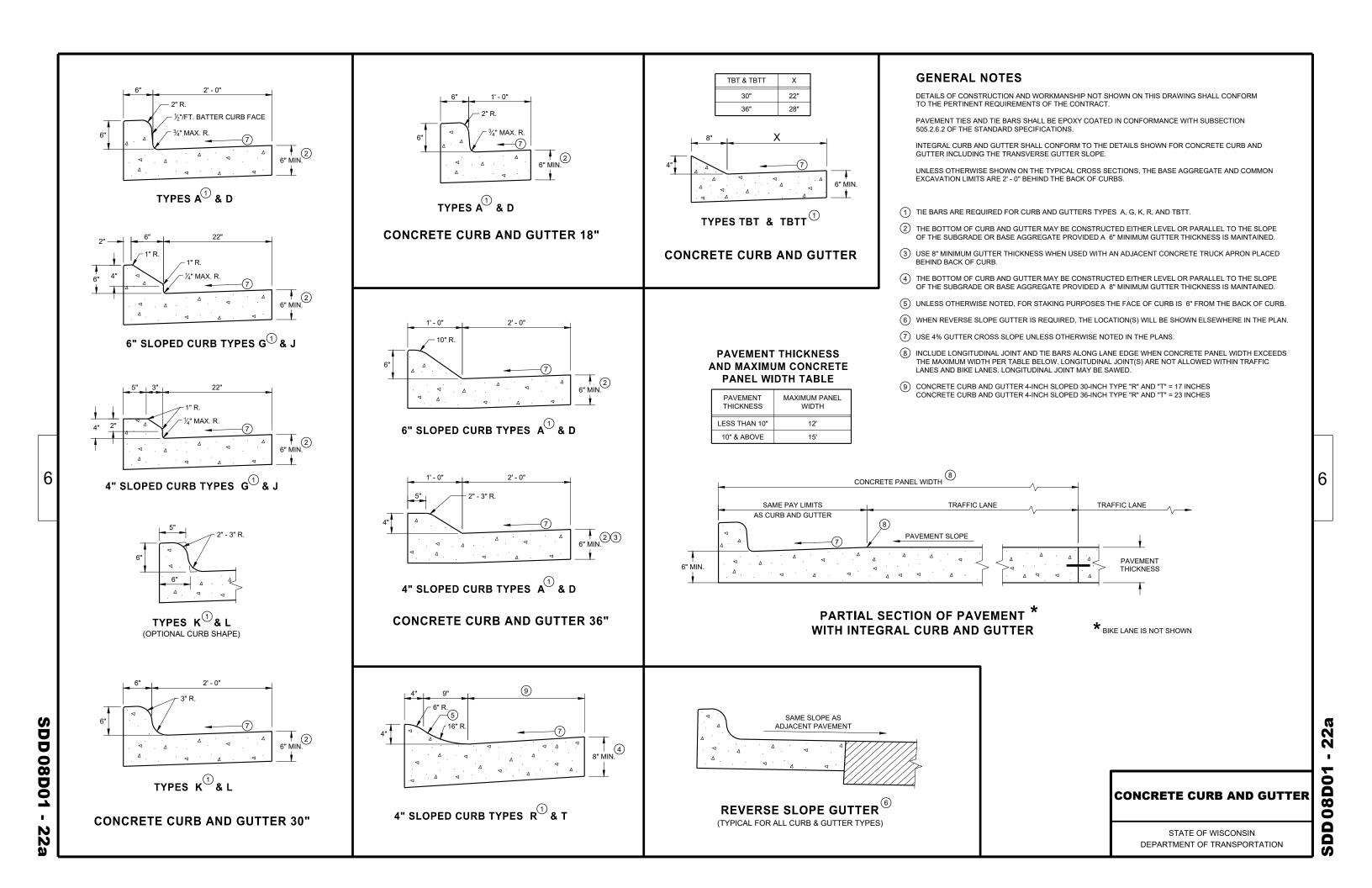
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

II/27/2013
DATE / /S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

A 5-19c

D.D. 8 ,

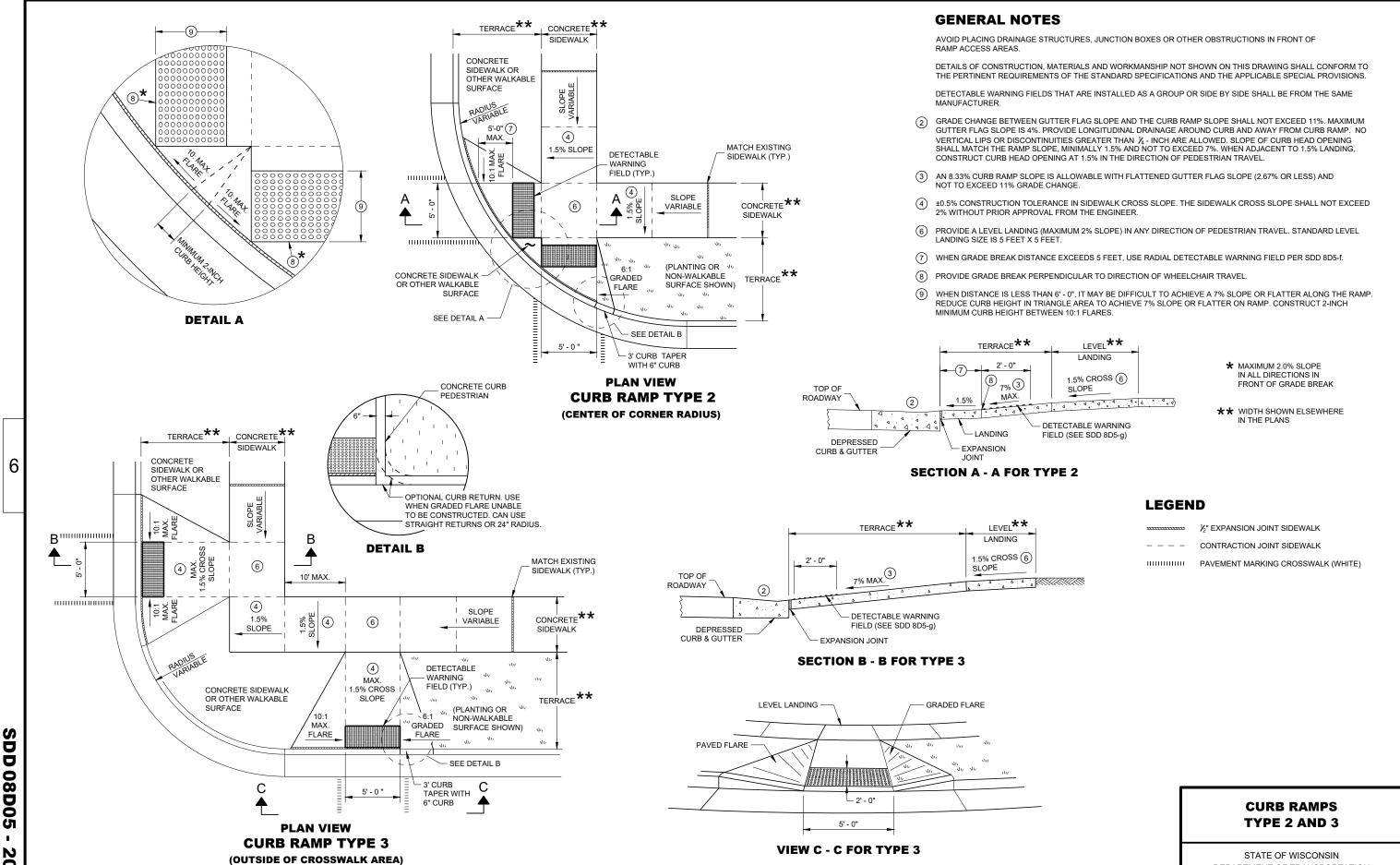


**VIEW D - D FOR TYPE 1 - A** 

**SECTION B - B FOR TYPE 1** 

80

DEPARTMENT OF TRANSPORTATION



Ñ

08D0 

DEPARTMENT OF TRANSPORTATION

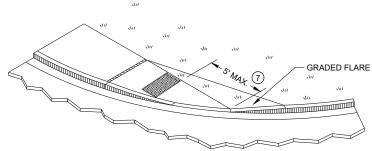
**SDD 08D05** 

**70** 

08D0

SDD

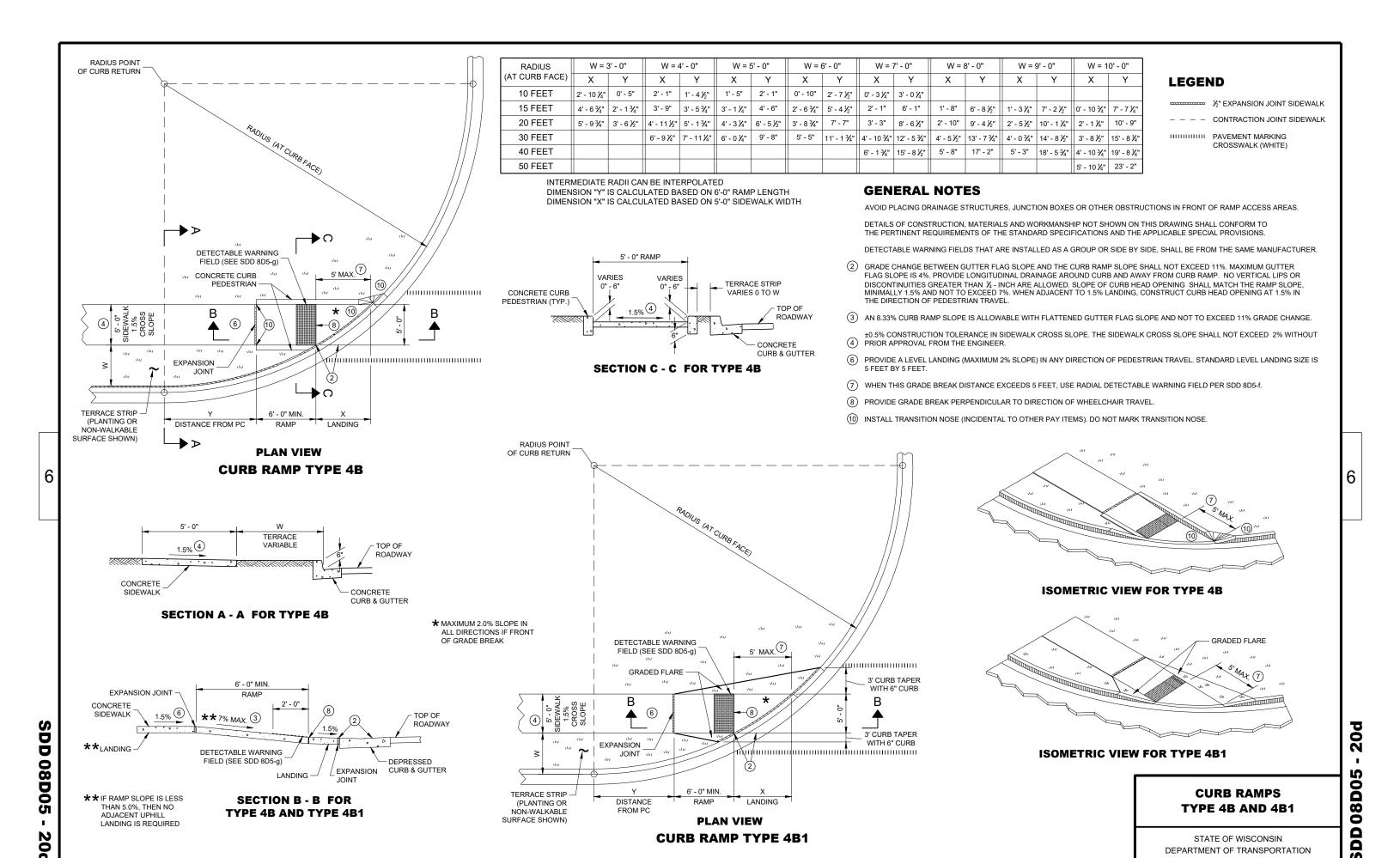
# **ISOMETRIC VIEW FOR TYPE 4A**



**ISOMETRIC VIEW FOR TYPE 4A1** 

**CURB RAMPS TYPE 4A AND 4A1** 

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



Ñ

08D0

DEPARTMENT OF TRANSPORTATION

**SDD 08D05** 

**DEPRESSED CURB & GUTTER** 

\*\*\* MAXIMUM 8.33%

FIELD (SEE SDD 8D5-a)

**SECTION B - B FOR TYPE 4B1** 

IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO

LANDING IS REQUIRED

ADJACENT UPHILL

S

0

 $\overline{\infty}$ 

Õ

S

6

ÖD 08D05

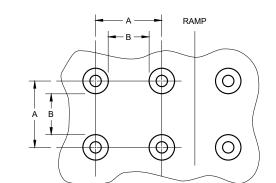
20f

DEPARTMENT OF TRANSPORTATION

STATE OF WISCONSIN

**FIELD APPLICATIONS** 

6



**PLAN VIEW** 

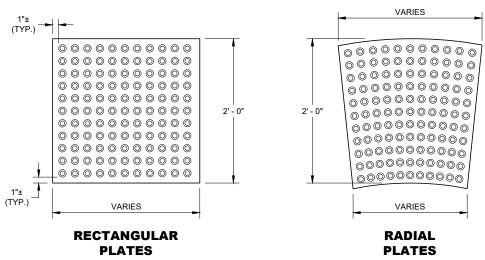
MIN. MAX. 1.6" 2.4" В 0.65" 1.5" \* С \* 0.9" 1.4"

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



**ELEVATION VIEW** 

# **TRUNCATED DOMES DETECTABLE WARNING PATTERN DETAIL**

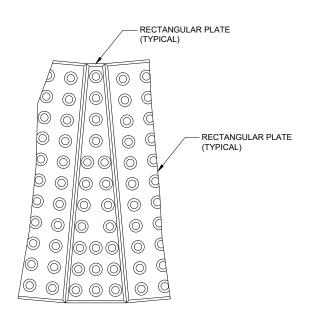


**PLAN VIEW** 

**PLAN VIEW** RADIAL DETECTABLE **WARNING FIELD ATTRIBUTES DETECTABLE WARNING FIELDS (TYPICAL)** 

(15)

CURB RAMP



**PLAN VIEW RADIAL WEDGE PLATE CONNECTION DETAIL** 



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

RADIAL PLATE

**GENERAL NOTES** 

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION. FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

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.

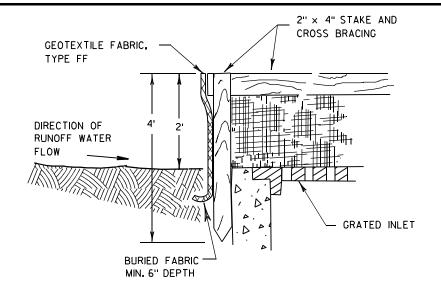
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

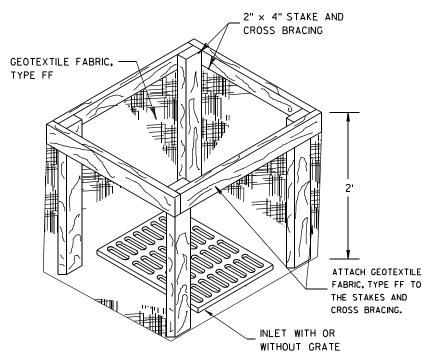
FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE.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

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) 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.





INLET PROTECTION, TYPE A

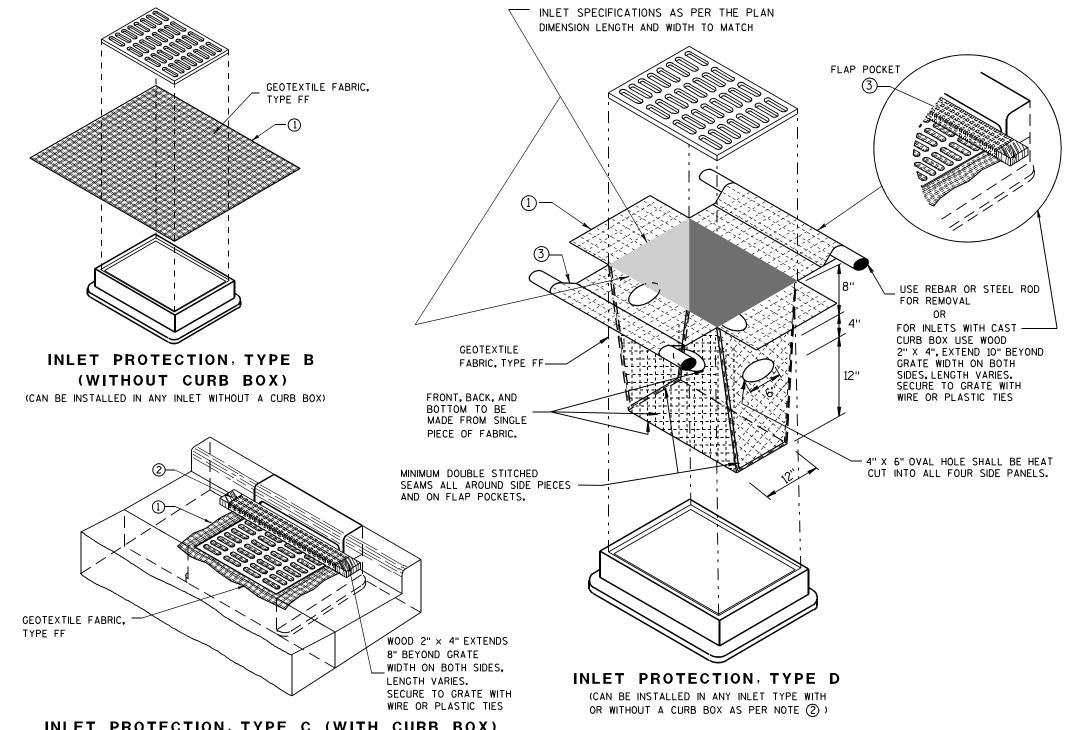
# **GENERAL NOTES**

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

6

0

ш

 $\infty$ 

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

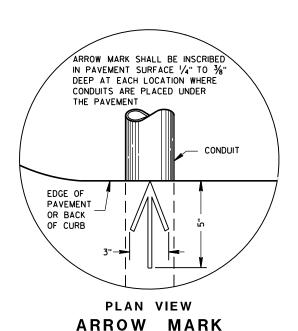
APF	RO	VED	

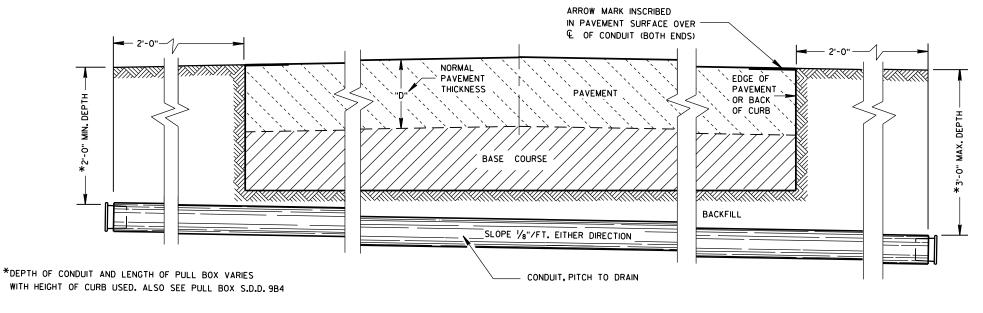
/S/ Beth Cannestra 10/16/02 CHIEF ROADWAY DEVELOPMENT ENGINEER

 $\mathbf{\omega}$ 

0

Ω





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

DIMENSION IN INCHES		NON-CONDUCTIVE PULL BOX			
BOX DIAMETER ** A		24	24		
BOX OVERALL OUTSIDE DIAMETER		27	27		
BOX LENGTH	С	36	42		
FRAME OPENING		22 1/2	22 1/2		
WEIGHT IN POUNDS *					
COVER		50	50		
BOX ONLY		75	85		

- \* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.
- \*\* DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE

# **GENERAL NOTES**

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

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN 1/4".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

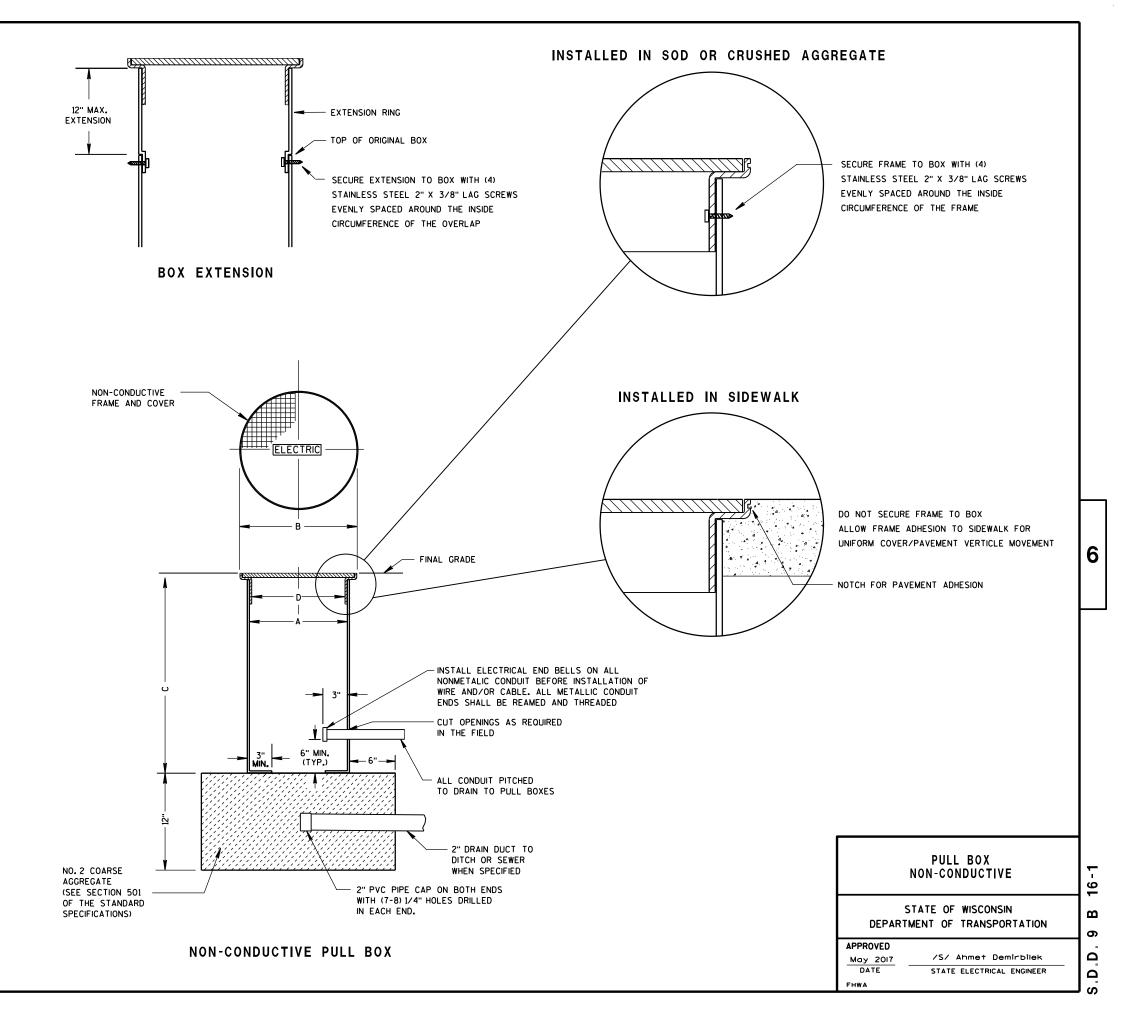
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.



6

S.D.D. 9 B

CONDUIT WITHIN

6" DIA

**UNPAVED AREA** 

(TYPICAL FOR

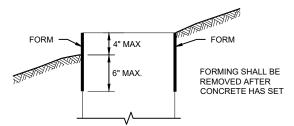
TYPES 1, 2, 5 & 6)

MIN

TOPSOIL AND SEED OR

CRUSHED

**AGGREGATE** 



EODMING	DETAIL	

FORM ALL EXPOSED

CONCRETE, PROVIDE

1" CHAMFER ALL AROUND

TYPE 1

CONDUIT

12 3/4" BOLT CIRCLE

**HALF SECTION** 

**IN PAVEMENT** 

(TYPICAL FOR

TYPES 1, 2, 5 & 6)

3/4" PREFORMED FILLER

AS APPROVED BY THE

**ENGINEER** 

OPTIONAL 4" L BEND

OR HEX NUT (TYPICAL

FOR TYPES 1, 2, 5 & 6

3" (11)

QUANTITY	CONCRETE BASE TYPE			
REQUIREMENTS	1	2	5 & 6	
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40	
LBS. OF HOOP BAR STEEL	NONE	23	16	
LBS. OF VERTICAL BAR STEEL	NONE	60	18	

TYPE 2

**CONCRETE BASES** 

# **GENERAL NOTES**

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

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.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC

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

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

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

L 2"

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

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

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE FOLIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES 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

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

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

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

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

- 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 EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.
- (2) (4) 1" DIA. X 3' 6" ANCHOR RODS.
- (3) (4) 1" DIA. X 5' 0" ANCHOR RODS.
- (6) NO. 6 X 6' 8" BAR STEEL REINFORCEMENT.
- (5) (7) NO. 4 X 5' 1" BAR STEEL REINFORCEMENT @ 1' 0" C C.
- (6) (4) 1" DIA. X 3' 6" ANCHOR RODS.
- (6) NO. 4 X 4' 8" BAR STEEL REINFORCEMENT.
- (8) (5) NO. 4 X 5' 1" BAR STELL REINFORCEMENT @ 1' 0" C -C.
- (9) EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR
- (10) 5/8" DIA. X 8'-0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED
- ANY ANCHOR ROD PROJECTION SHORTER THAN 2 3/4" OR LONGER THAN 3 1/4" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
- 12) FOR NON BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS, RODENT SCREEN REQUIRED.



0

2

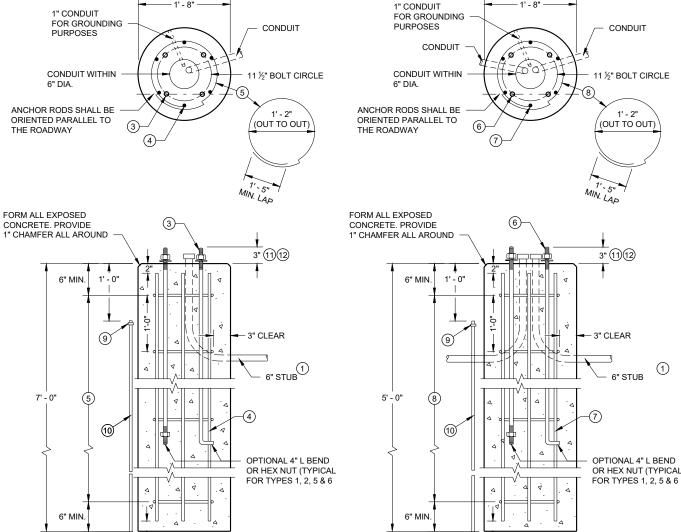
ANCHOR RODS SHALL BE ORIENTED PARALLEL TO THE ROADWAY 6 **HALF SECTION IN** 

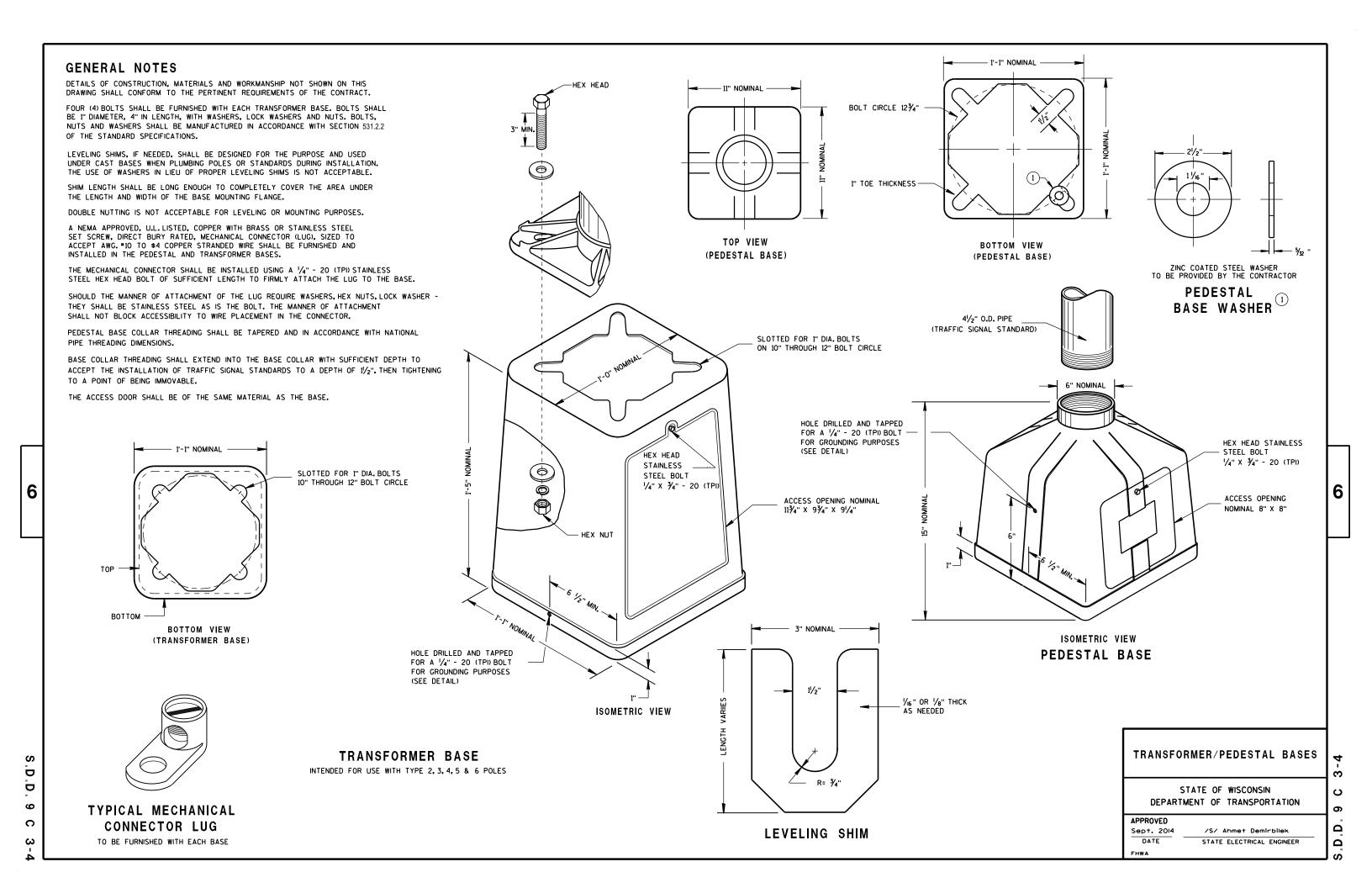
SD

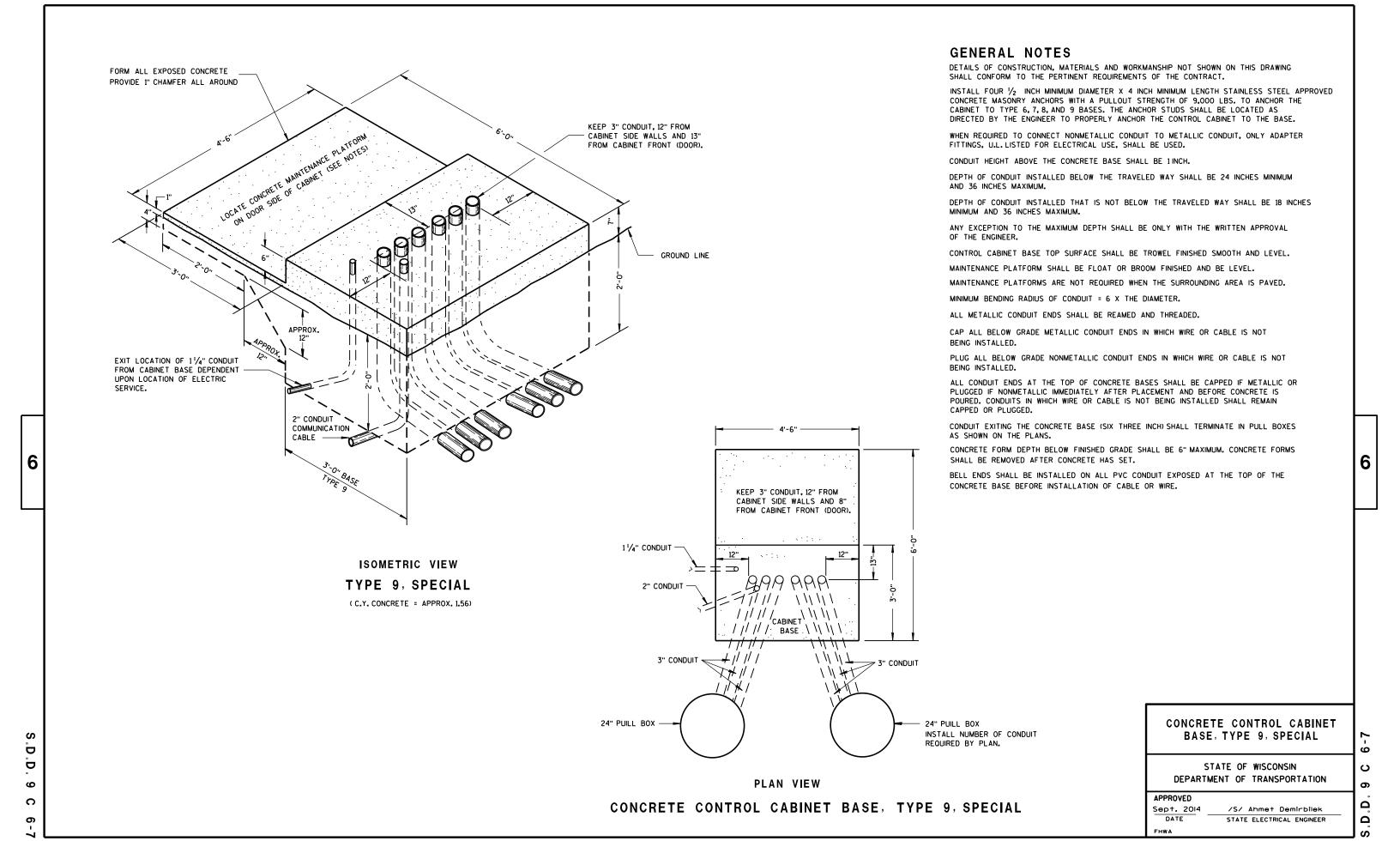
09C02

0

Ü 0 STATE OF WISCONSIN Ŏ DEPARTMENT OF TRANSPORTATION **TYPE 5 & 6** APPROVED May 2019 DATE /S/ Ahmet Demirbilel STATE ELECTRICAL ENGINEER







Ω

တ

Ω

/S/ Ahmet Demirbilek

STATE ELECTRICAL ENGINEER

Sept. 2014

DATE

FHWA

**SECTION A-A** 

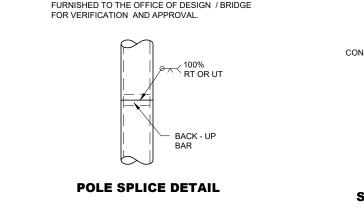
FACE(S) IN THE TROMBONE MOUNTING)

■ ADJUSTABLE TO 6' -6" MIN. —

(10 DEGREES TILT REQUIREMENT OF

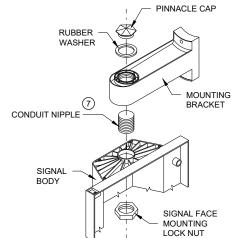
### FOR MANUFACTURERS USE ONLY

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.



VENTILATED 9 METALLIC

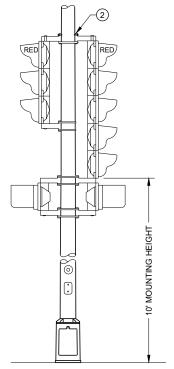
CAP AND BOLT



SIGNAL FACE MOUNTING DETAIL (BANDED)

WELDED CURVED END (3) MIN WELDED SEE HORIZONTAL\*\* 2 SIGNAL HEAD MOUNTING DETAIL POLE SPLICE WHEN STEEL POLE IS TO BE FURNISHED ROUND SHAFT 8" O.D. (POLE BUTT) X 6  $5\!\!$  " O.D. LOWER 15' TAPERED PEDESTRIAN PUSH BUTTON WHEN REQUIRED \* MOUNTING HEIGHT LIMITATION DIMENSIONS OF THE TROMBONE MAST ARM WILL BE DEPENDENT UPON THE USE / NON - USE OF A TRANSFORMER BASE SIDEWALK, OR IF NONE, PAVEMENT CENTERLINE GRADE 6 - ROADWAY PAVEMEN1 (MAXIMUM LOAD)

VARIABI F 25' - 0" LENGTH FOR DESIGN CALCULATION



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

**TYPICAL MOUNTING OF 3 SECTION** 

SIGNAL FACE

# **TYPE 2 POLE MOUNTING CONFIGURATION**

## **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.

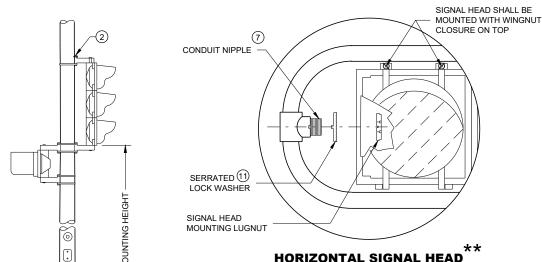
SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

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.
- (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
- (8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW ( $\chi$ " x  $\chi$ " 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.



**HORIZONTAL SIGNAL HEAD MOUNTING DETAIL** 

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

**POLE MOUNTINGS FOR TRAFFIC SIGNALS** TYPE 2

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

**DD 09E** 

**TYPE 4 POLE MOUNTING CONFIGURATION** 

<u>60</u>

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

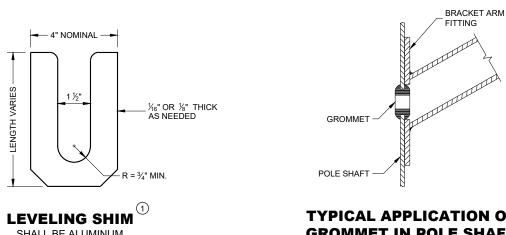
SDD 09E

AO

60







GUSSETS REQUIRED

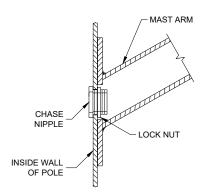
STAINLESS STEEL HARDWARE - BOLT LENGTH

FOR TROMBONE ARM CLAMPS SHALL BE 4 ½"
MIN. - 6" MAX.. BOLTS FOR LUMINAIRE ARM

CLAMPS SHALL BE 3 ½" IN LENGTH. THREAD

BOLTS ENTIRE LENGTH





**TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT** 

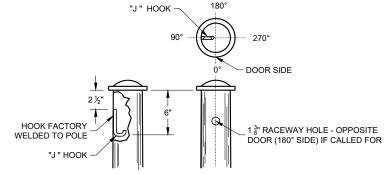
# **GENERAL NOTES**

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.



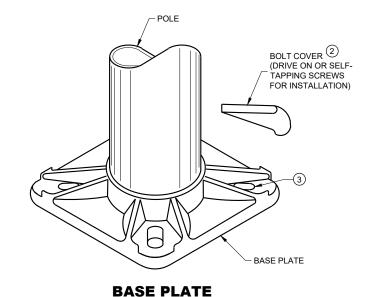


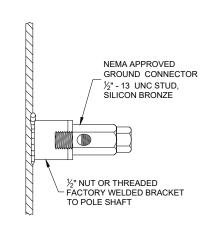
**TYPICAL "J" HOOK LOCATION** 

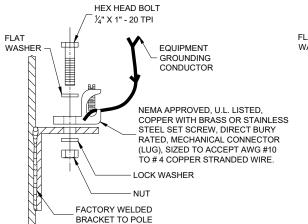
# **TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP**

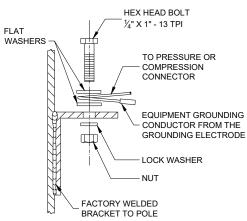
SHALL BE ALUMINUM

# **TYPICAL LUMINAIRE MAST ARM** (DOUBLE) MOUNTING BRACKETS









# TYPICAL GROUNDING CONNECTIONS

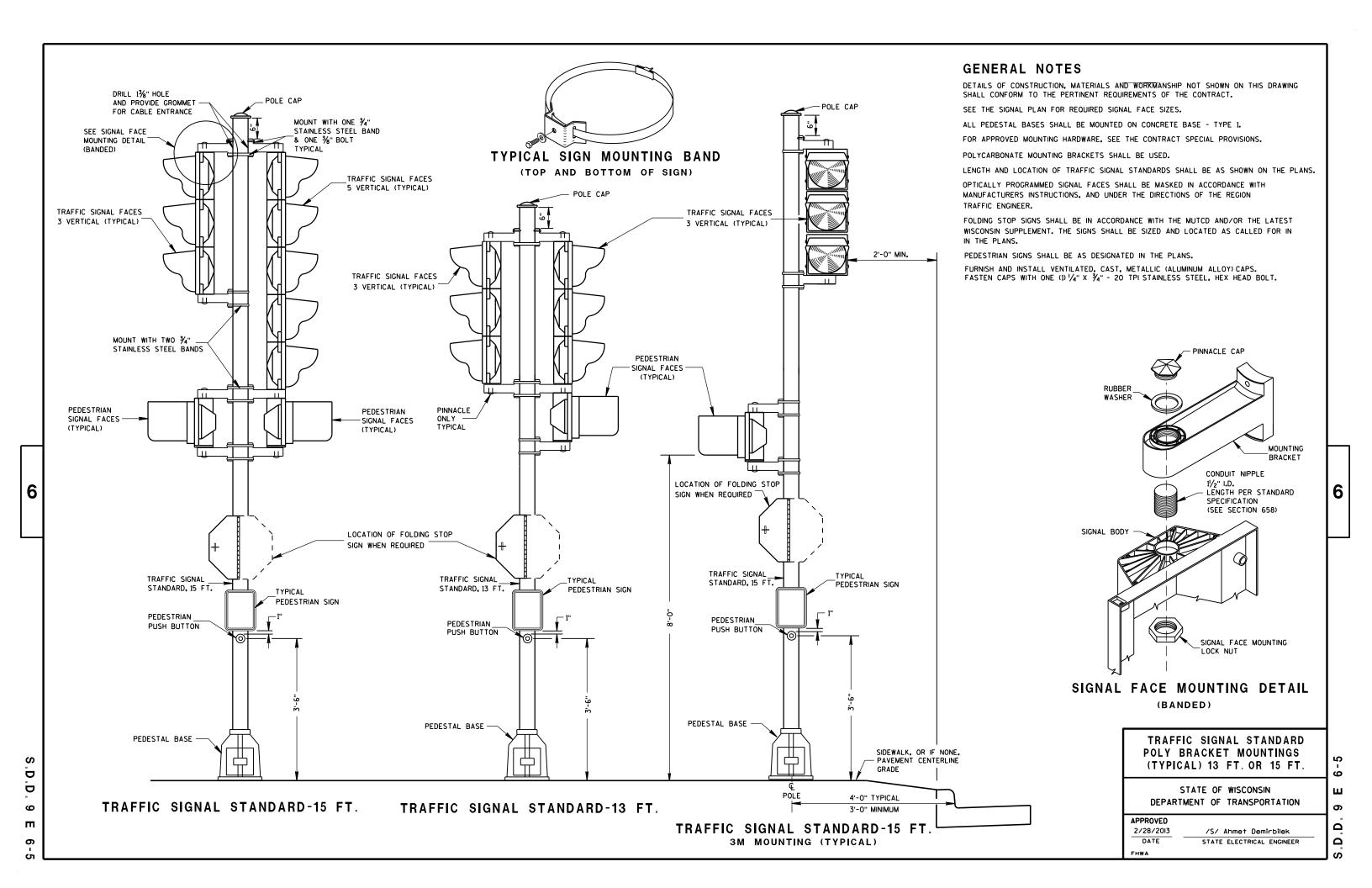
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

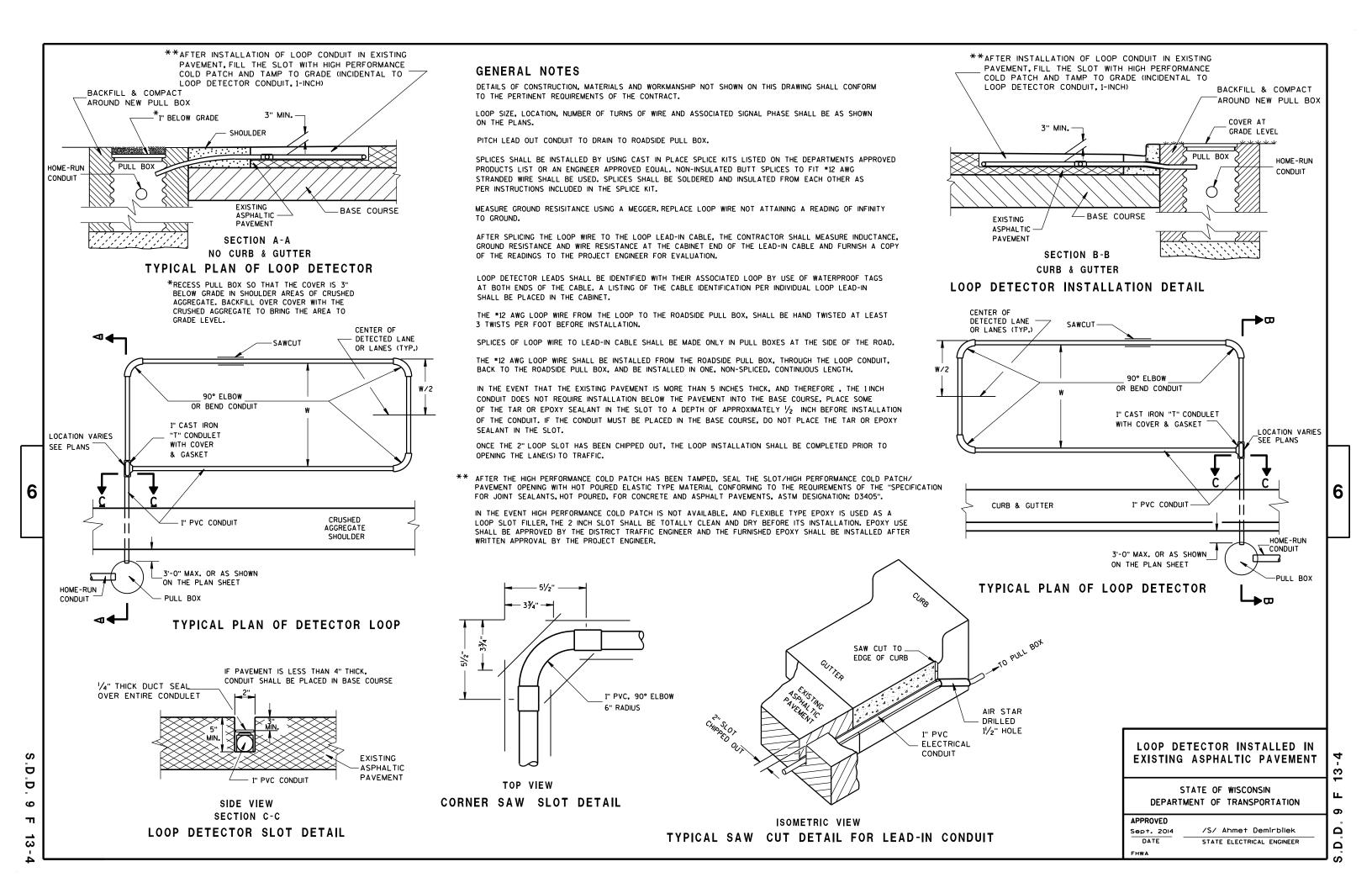
# **HARDWARE DETAILS FOR POLE MOUNTING**

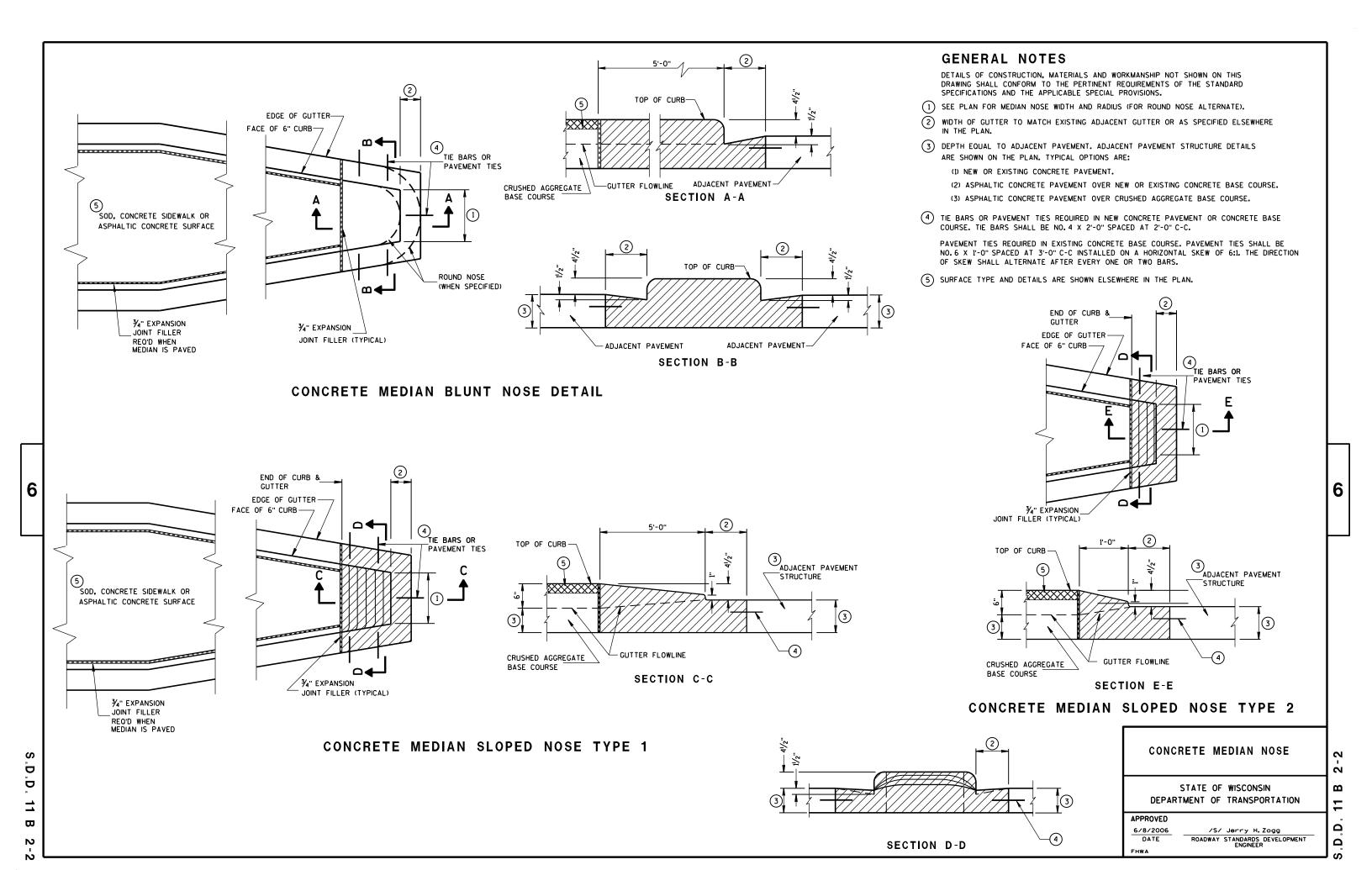
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

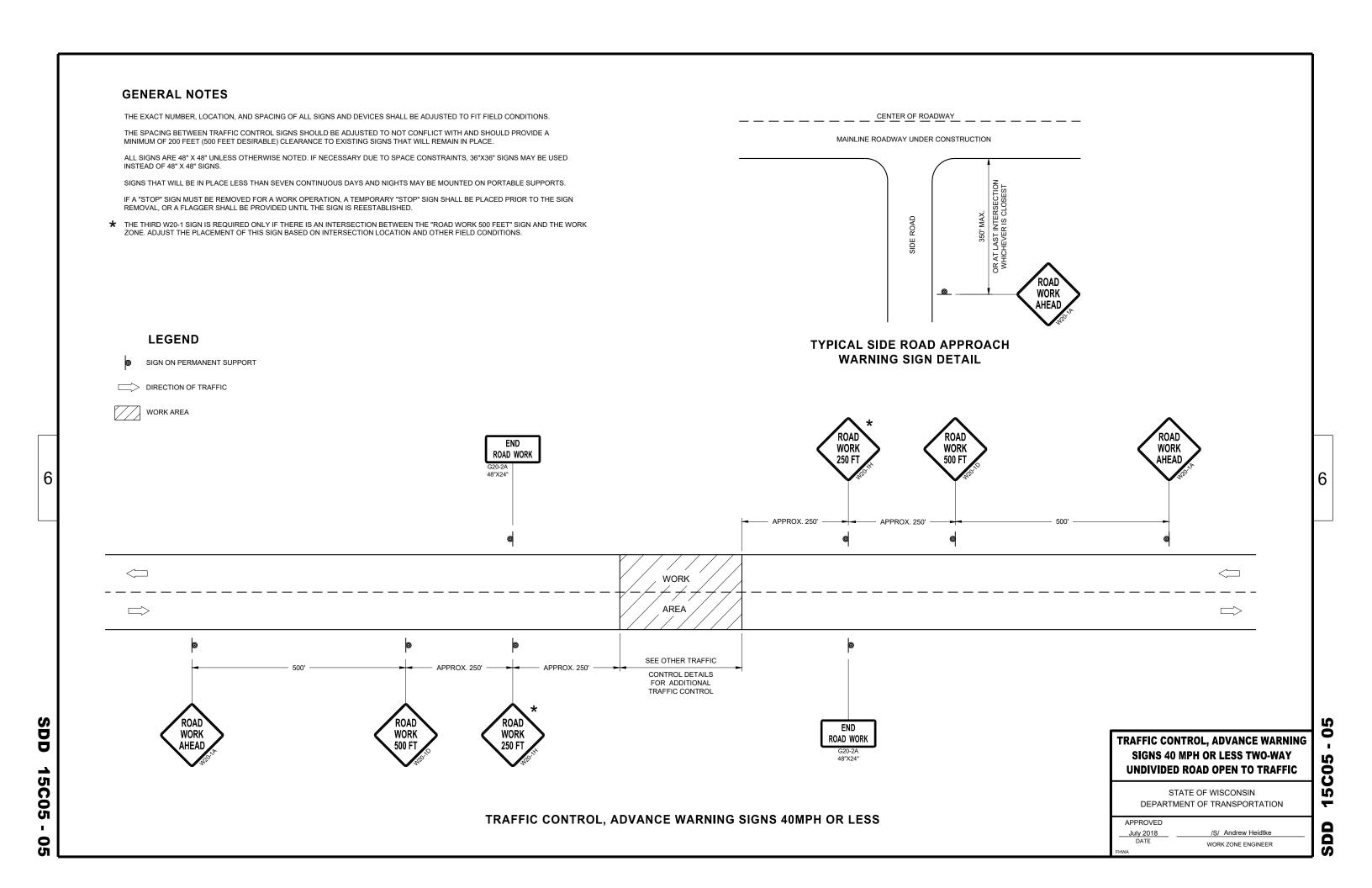
APPROVED

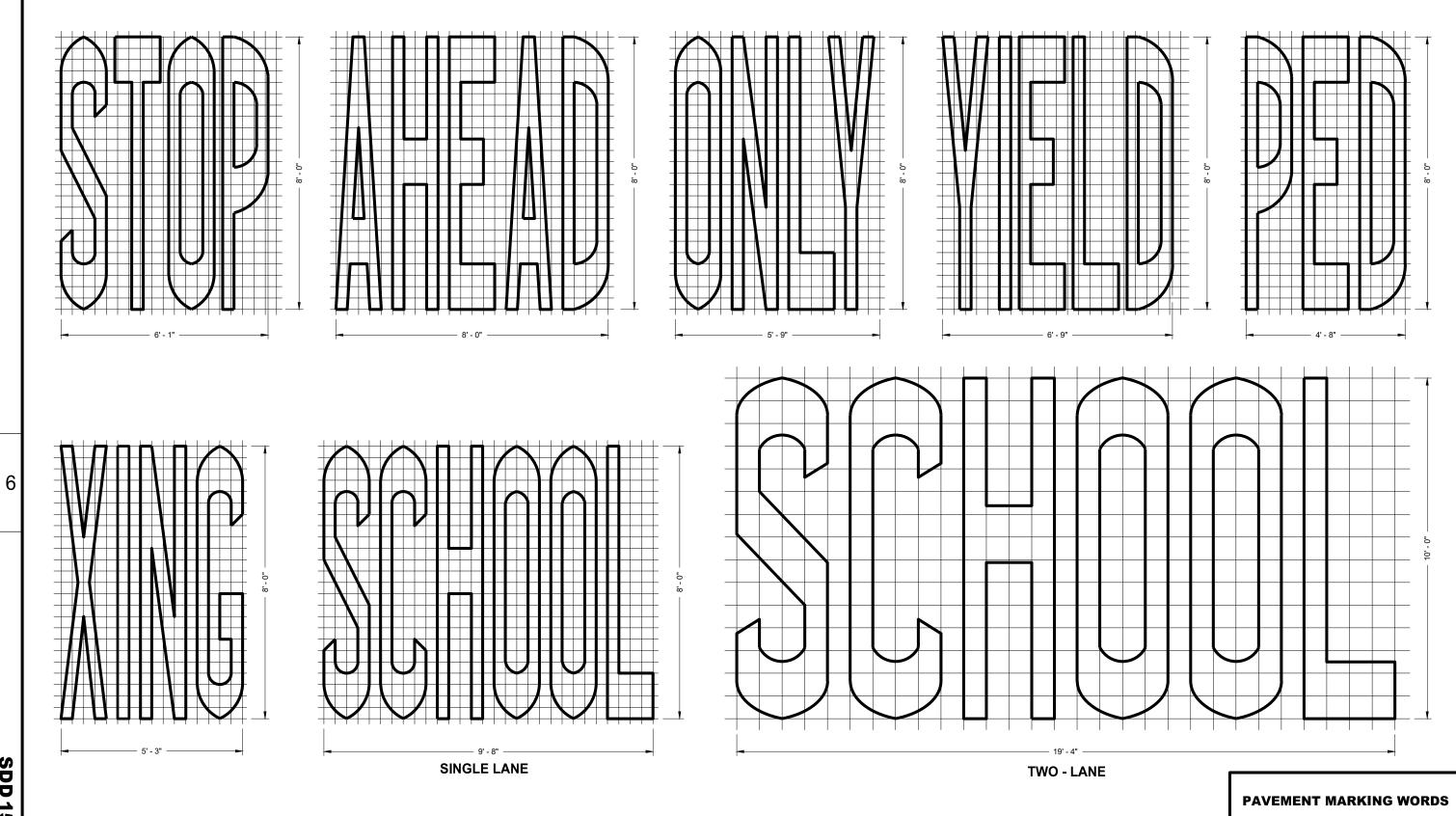
November 2018 DATE /S/ Ahmet Demirbilel STATE ELECTRICAL ENGINEER











**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

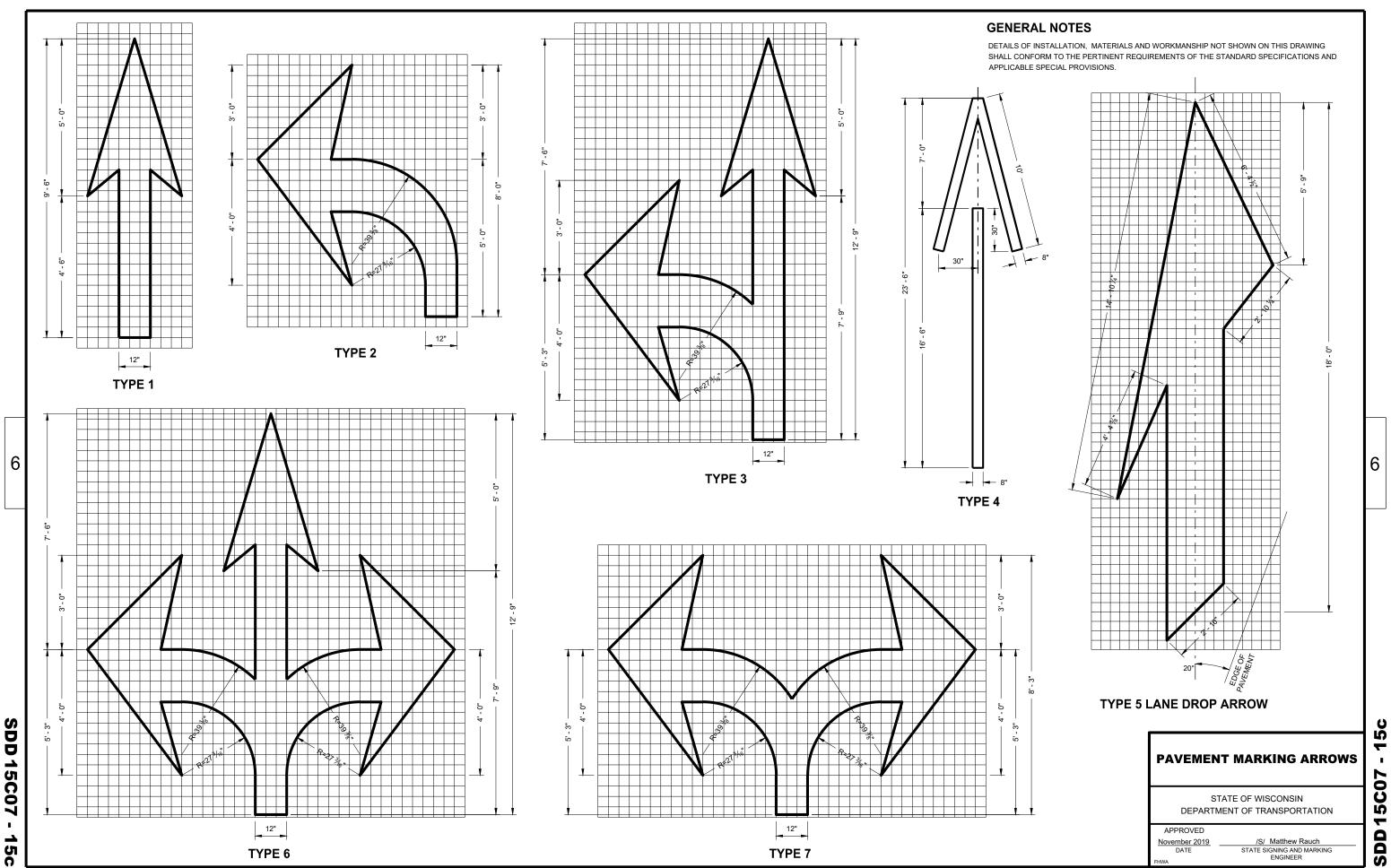
APPROVED

November 2019 \_\_\_\_ /S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

6

**5**b

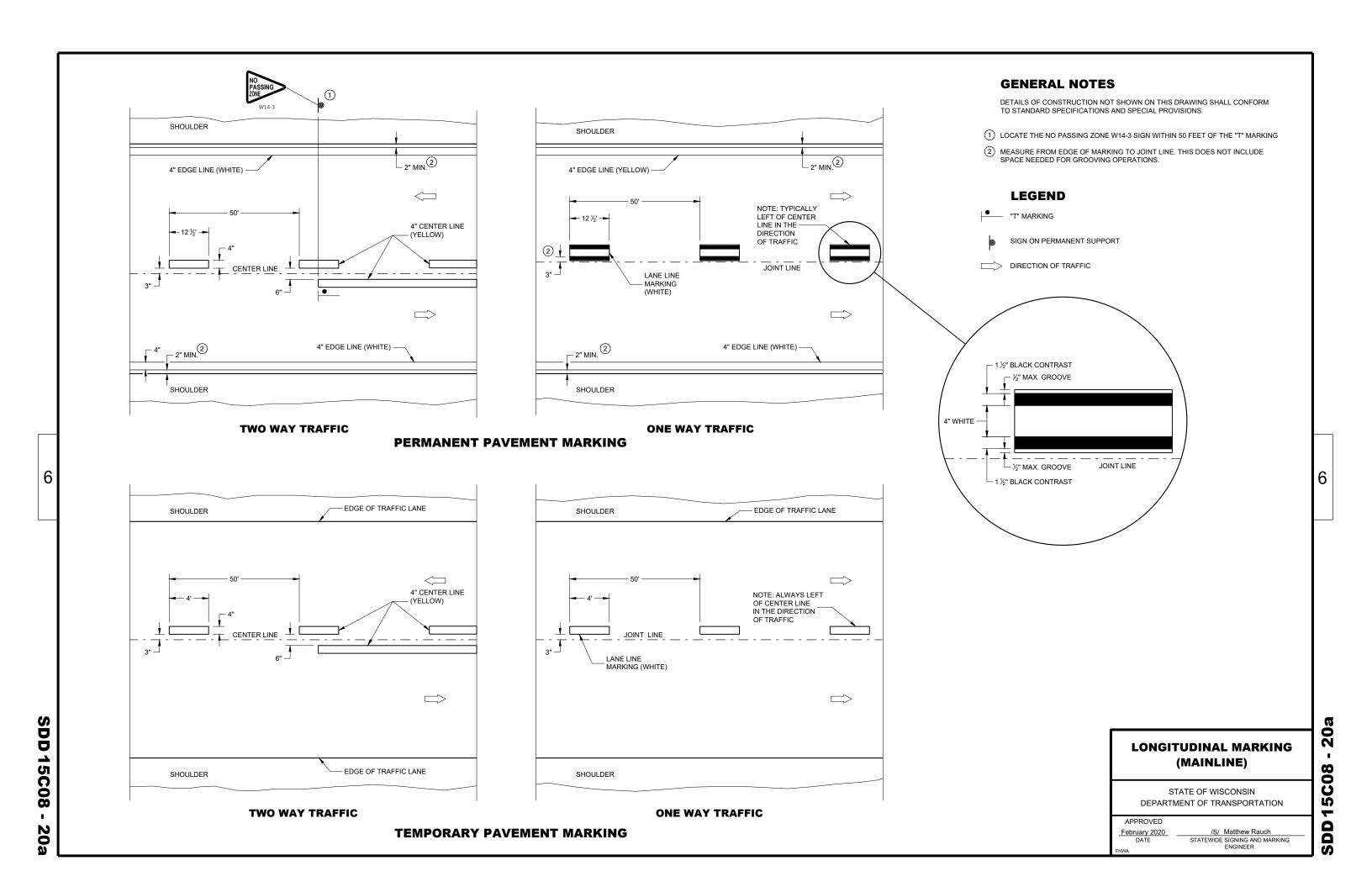
**SDD15C07** 

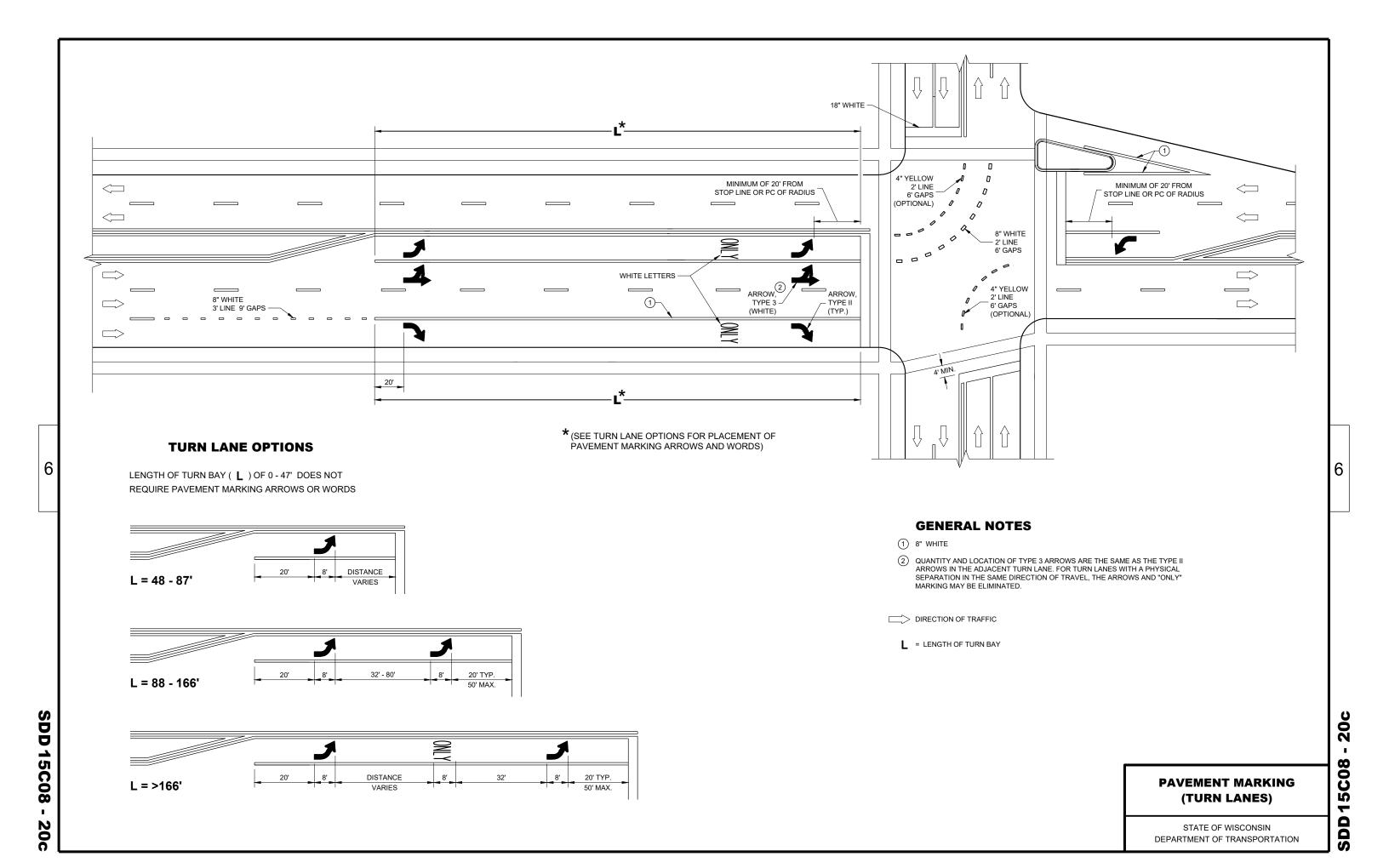


TYPE 7

TYPE 6

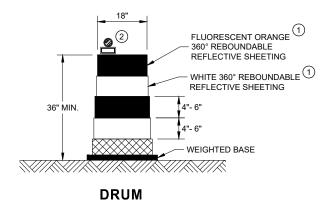
SDD

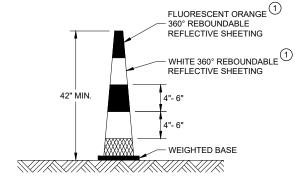




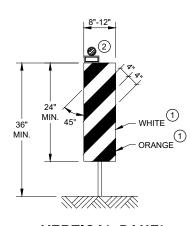
# **GENERAL NOTES**

- (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.

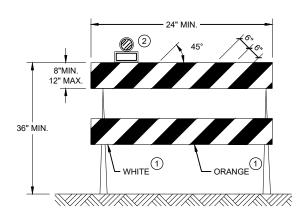




**42" CONE** DO NOT USE IN TAPERS ½ SPACING OF DRUMS

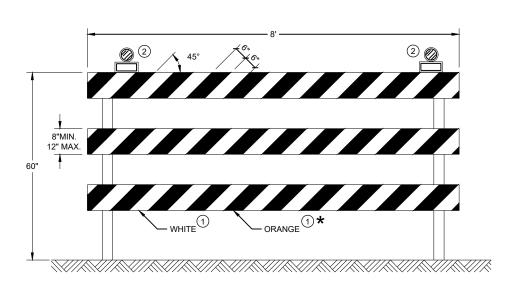


**VERTICAL PANEL** THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



# **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
EHW/A	

RUMBLE

STRIPS

WORK

#### **GENERAL NOTES FLAGGING LEGEND** DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH SIGN ON PORTABLE OR PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. **SIGN AND TEMPORARY RUMBLE** STRIP ARRAY SPACING TABLE 5' MIN BE SPEED LIMIT SPACING "A" USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A" 35-40 MPH STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

# TRAFFIC CONTROL FOR LANE CLOSURE WITH **FLAGGING OPERATION**

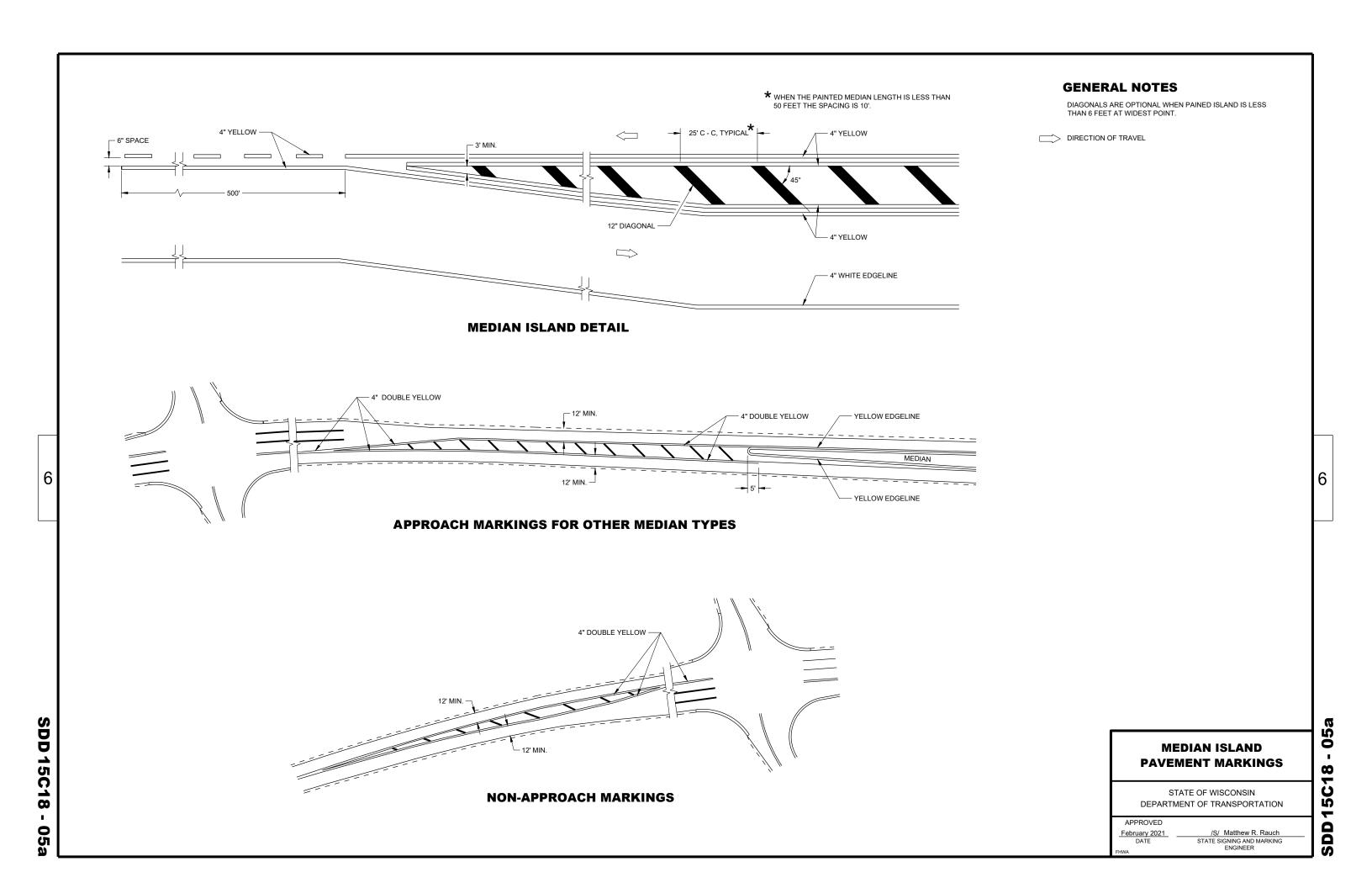
2

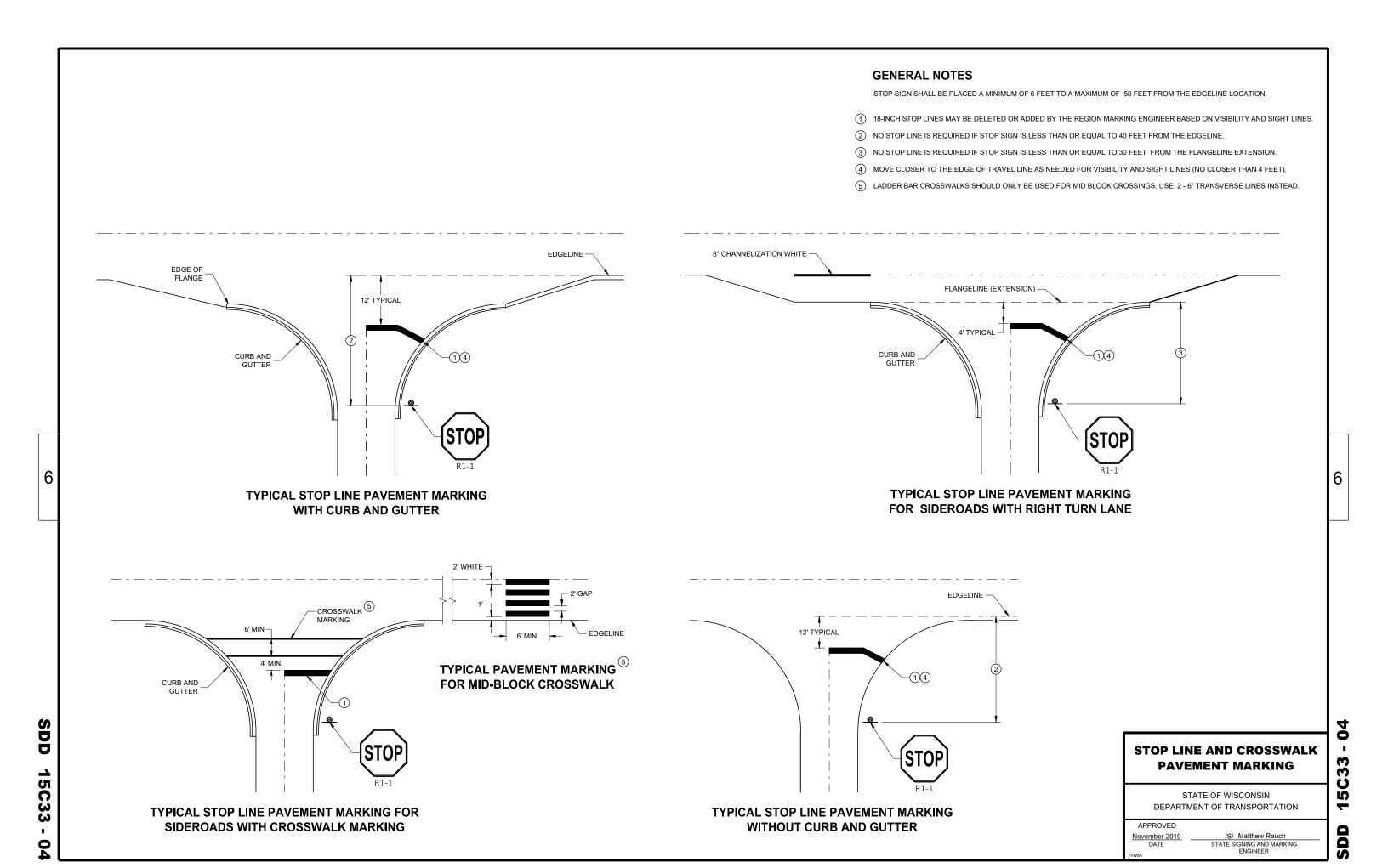
S

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2019	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

# TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION





SIGN ON PERMANENT SUPPORT

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, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

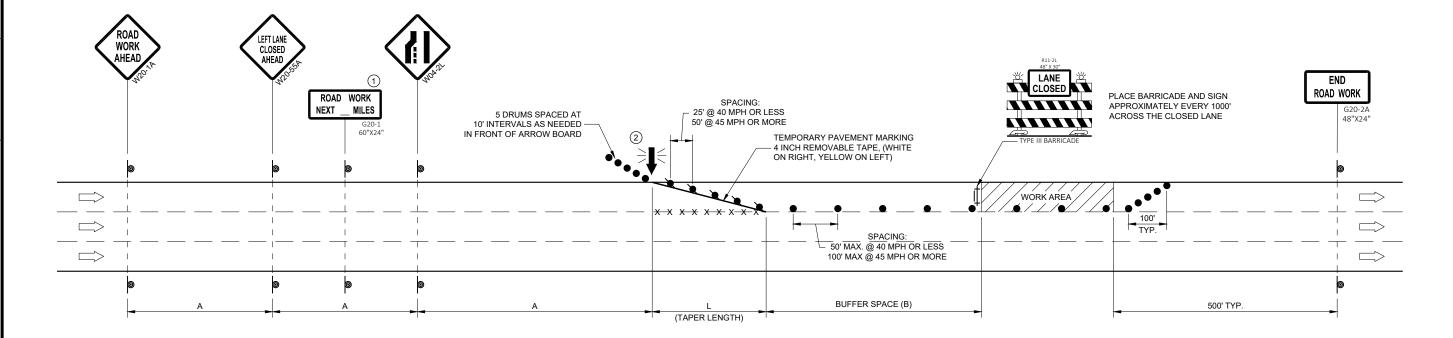
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

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.
- (2) 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' 40 170' 350 320' 45 500' 540' 220'

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2020

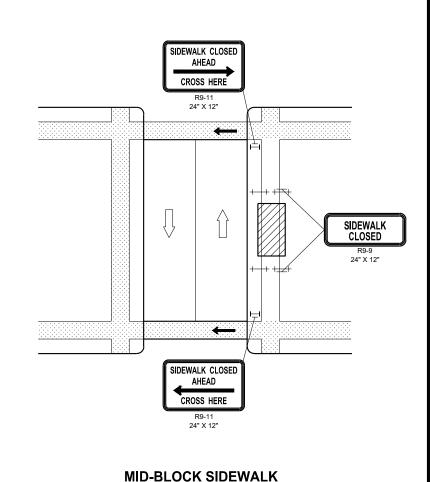
DATE

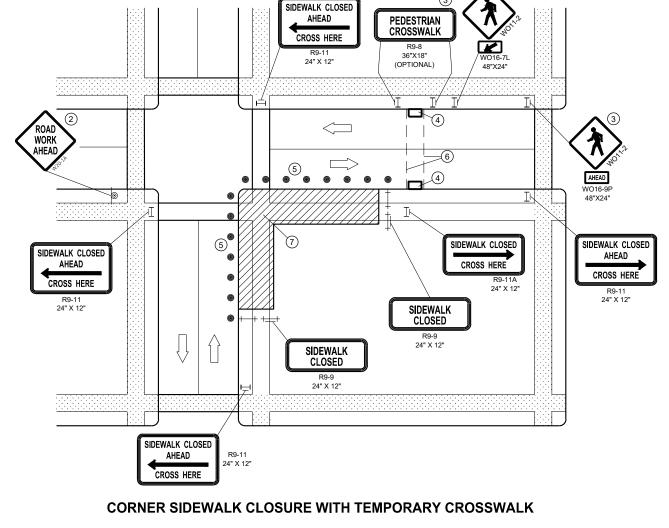
/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

SDD 15D20 - 0

DD 15D20

**6**2





### **GENERAL NOTES**

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

**CLOSURE** 

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

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

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

- 1 IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
- (2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
- (3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK
- (4) TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.
- (5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
- 6 TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
- (7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

### LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)

+ / + TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)

UNDER PEDESTRIAN TRAFFIC

WORK AREA

PEDESTRIAN CHANNELIZATION DEVICE

DIRECTION OF TRAFFIC

# TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

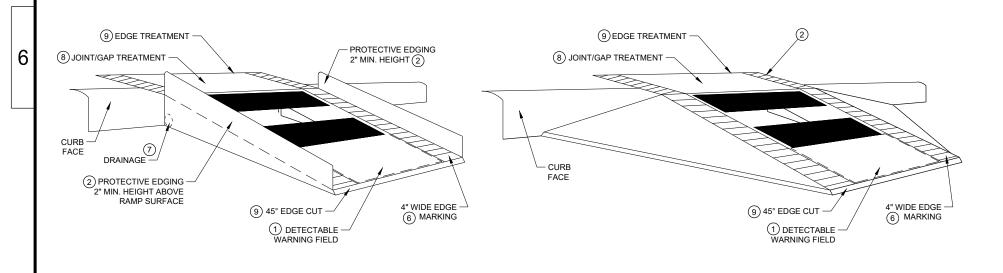
4" WIDE EDGE MARKING (6)

### **TEMPORARY CURB RAMP PARALLEL TO CURB**

CROSS SLOPE 2% MAX. (4)

ABOVE RAMP SURFACE (2)

WITH SIDE APRON



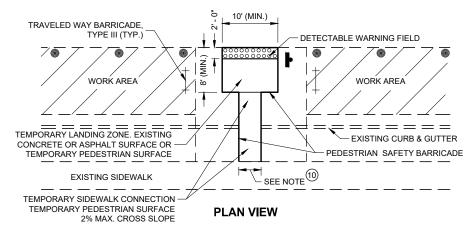
### TEMPORARY CURB RAMP PERPENDICULAR TO CURB

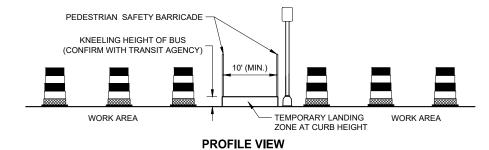
#### **GENERAL NOTES**

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

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

- (1) CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
- 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) CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
- (5) CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- (6) THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
- 7) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- (8) LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
- (9) CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
- (1) 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.





### **TEMPORARY BUS STOP PAD**

#### LEGEND



# TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

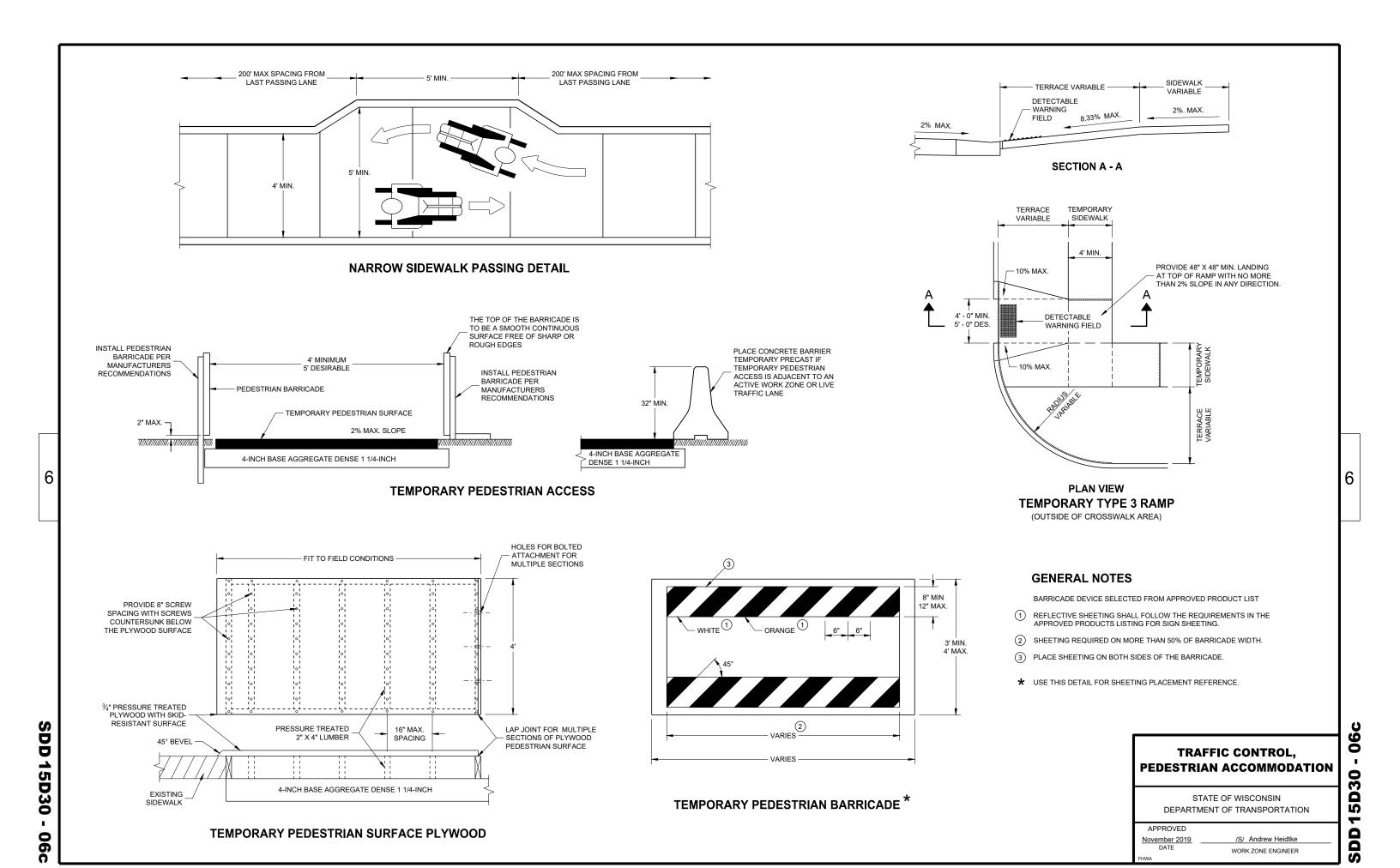
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

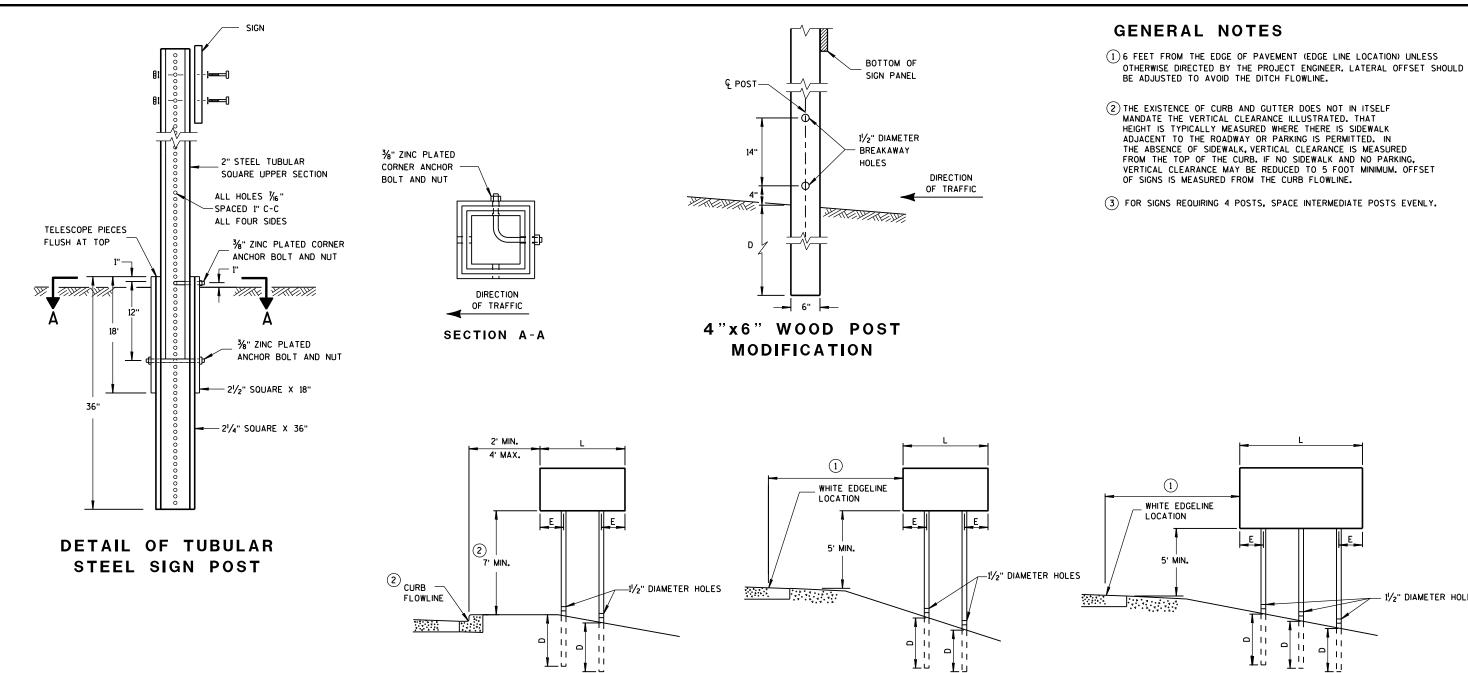
(5) CLEAR SPACE

(9) EDGE TREATMENT

WITH PROTECTIVE EDGE

DD 15D30 - 06





TUBULAR STEEL POSTS

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

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

URBAN AREA

RURAL AREA

# POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH** 

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

4" X 6" WOOD POST

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

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

-11

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

D D 15 D  $\infty$ 

6

Δ Ω Ω

 $\infty$ 

6

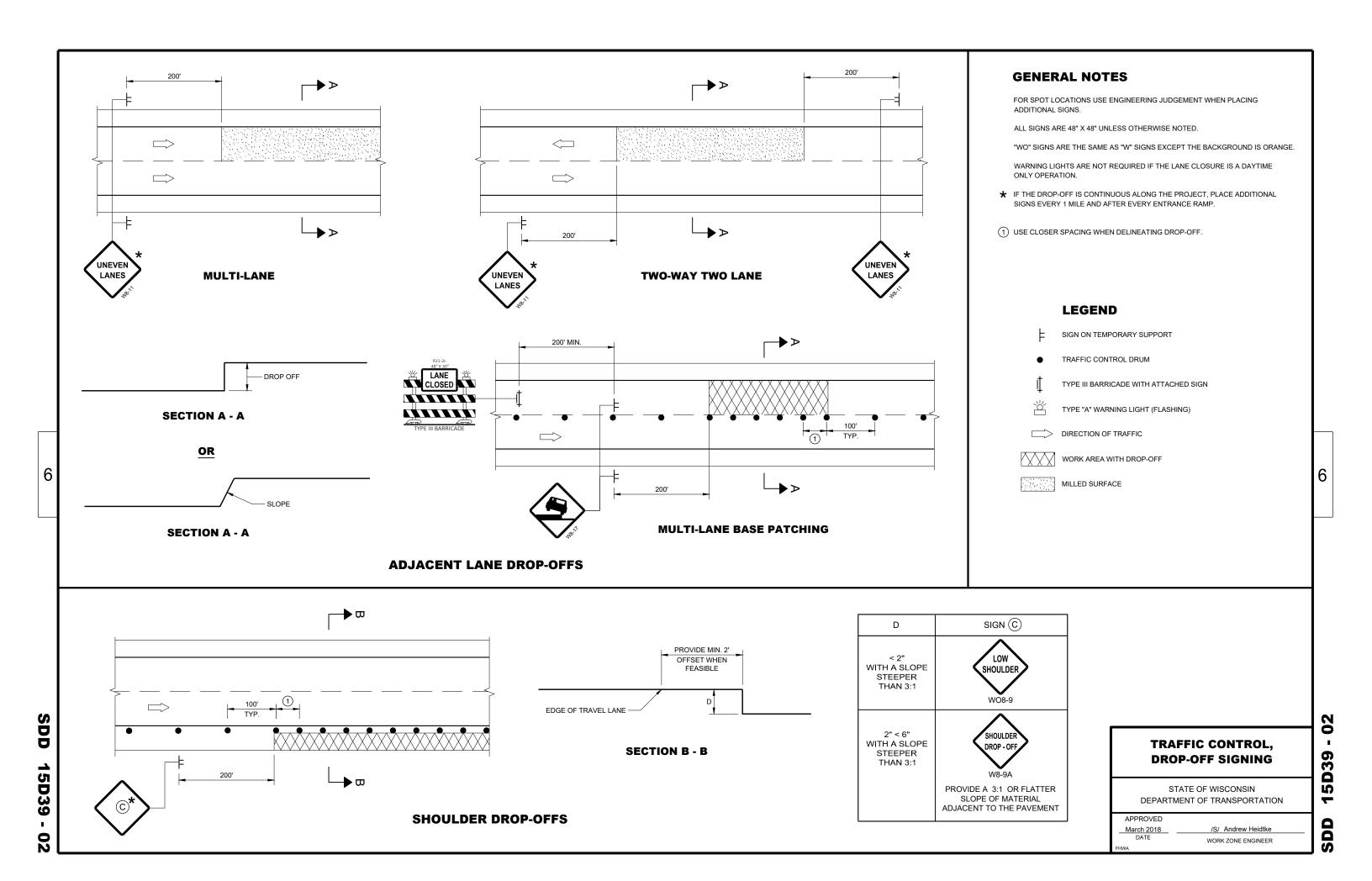
- 11/2" DIAMETER HOLES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017 DATE



DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

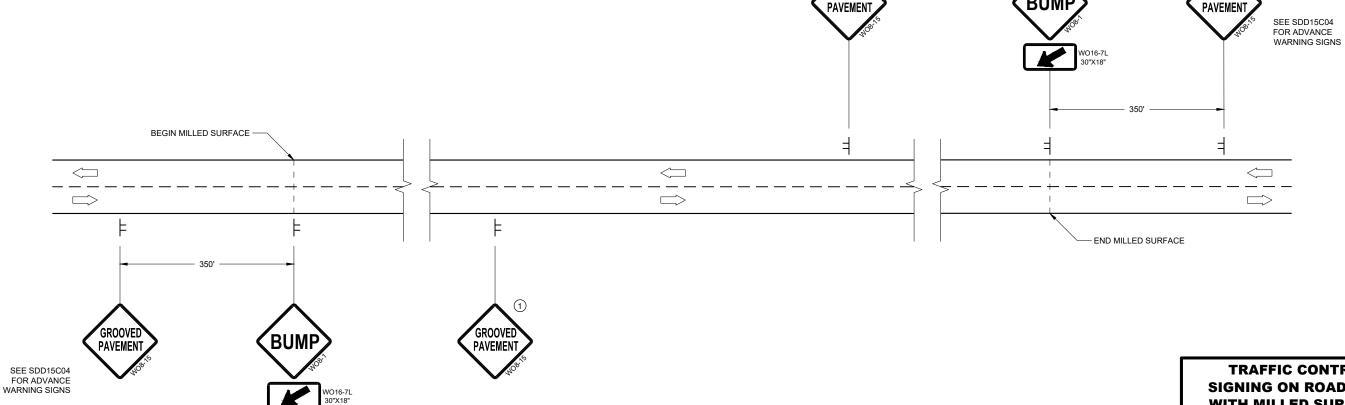
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

- (1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
- (2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

DIRECTION OF TRAFFIC



### **DETAIL FOR SIGNING ON MILLED SURFACES**

 $\perp \!\!\! \perp$ **PAVEMENT** 

### **TYPICAL SIDE ROAD APPROACH SIGN DETAIL**

TRAFFIC CONTROL, **SIGNING ON ROADWAYS WITH MILLED SURFACES** 

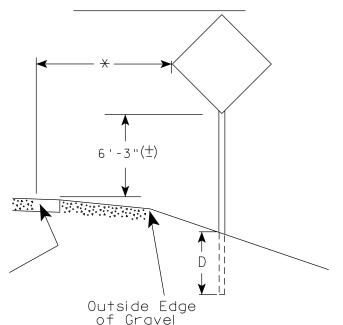
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

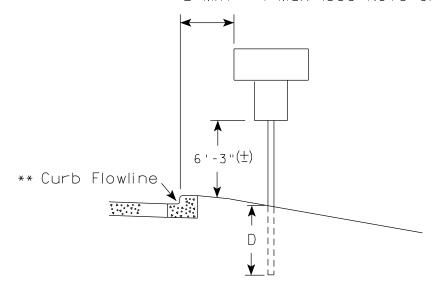
/S/ Andrew Heidtke WORK ZONE ENGINEER Ò D 2' Min - 4' Max (See Note 6)

The state of t

White Edgeline Location



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



White Edgeline Location

geline

Outside Edge
of Gravel

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

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.

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.

2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

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

SHEET NO:

Ε

PROJECT NO:

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

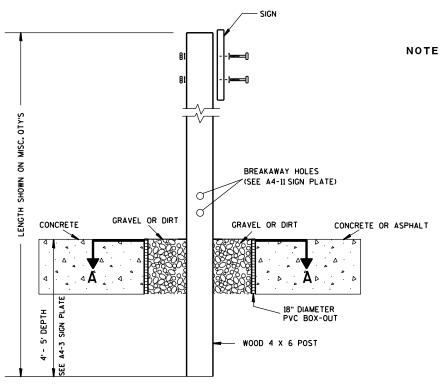
measured from the flow line.

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

PLOT BY : mscj9h

PLOT NAME :

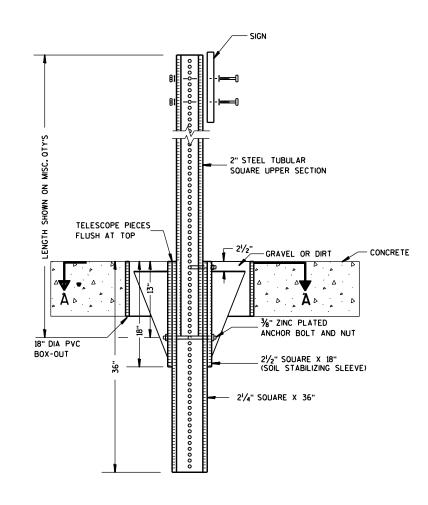
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



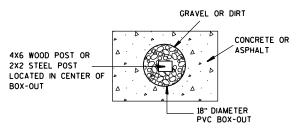
### ELEVATION VIEW

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

ELEVATION VIEW

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

HWY:



### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE : 13.659812:1.000000

APPROVED

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

### POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

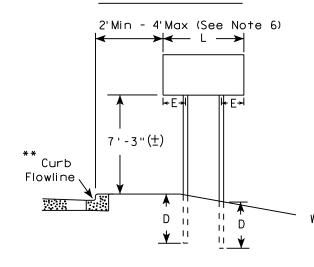
For State Traffic Engineer

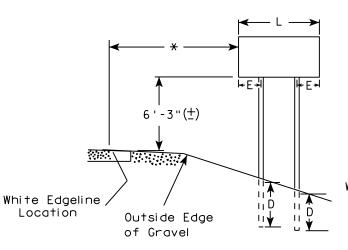
DATE 8/21/17 PLATE NO. A4-4.15

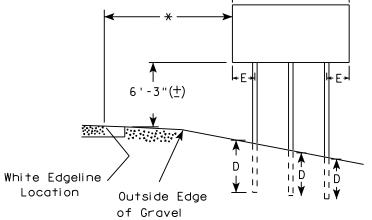
SHEET NO:

### URBAN AREA

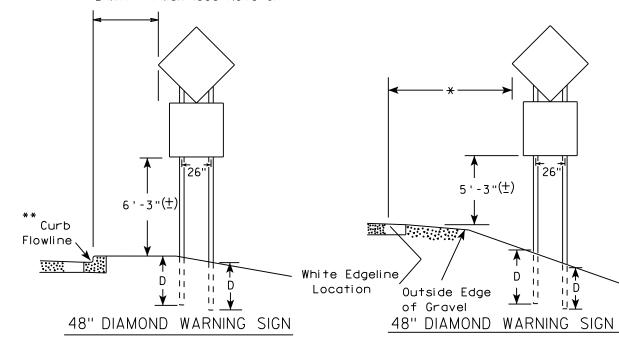
### RURAL AREA (See Note 3)







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



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

HWY:

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

COUNTY:

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

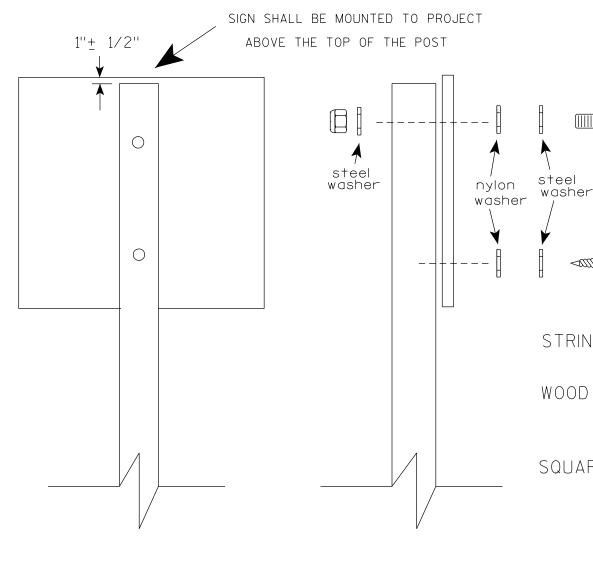
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

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

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

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

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 3/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ " STEEL 1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

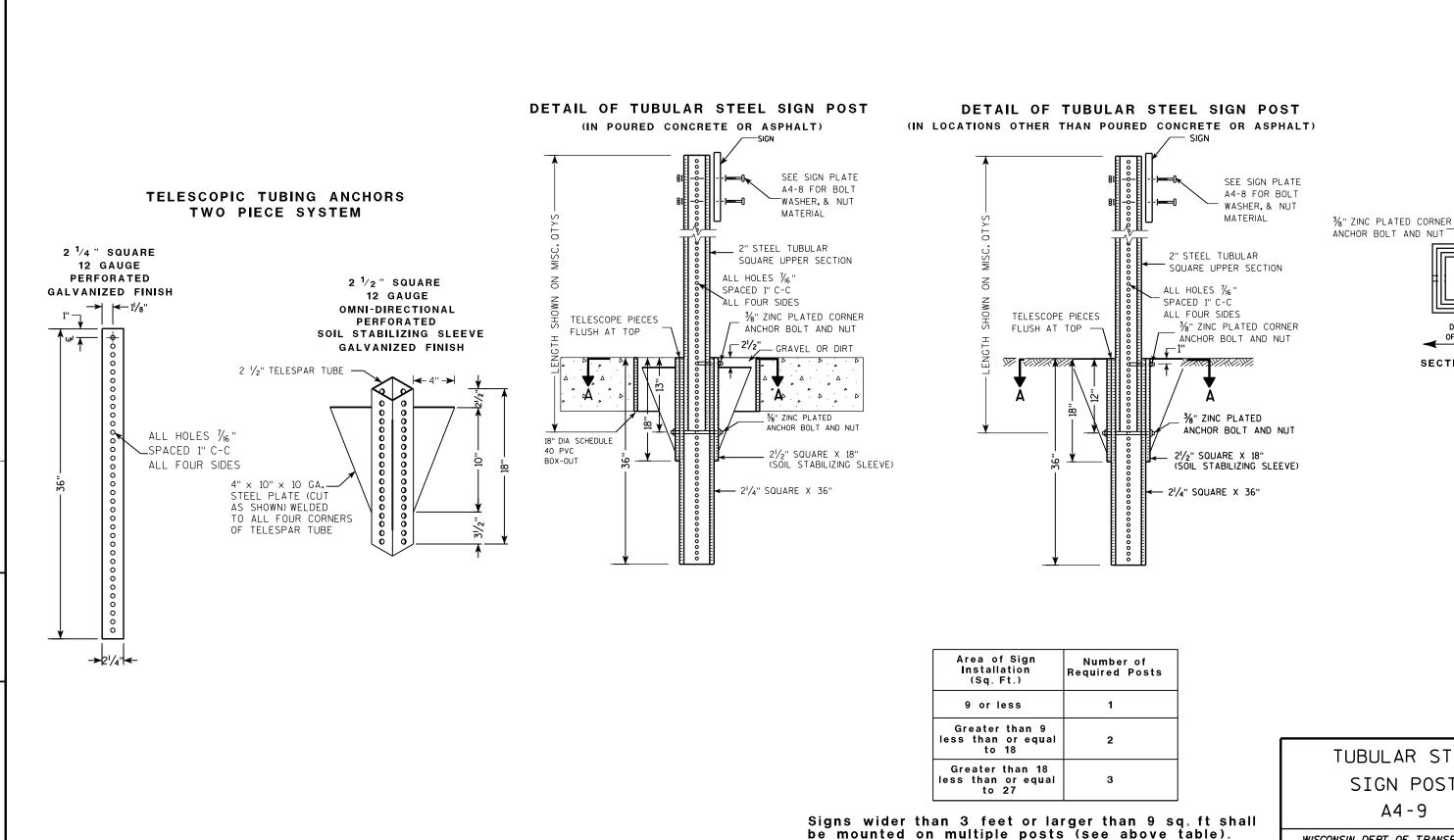
PLATE NO. <u>A4-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

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

SHEET NO:

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

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

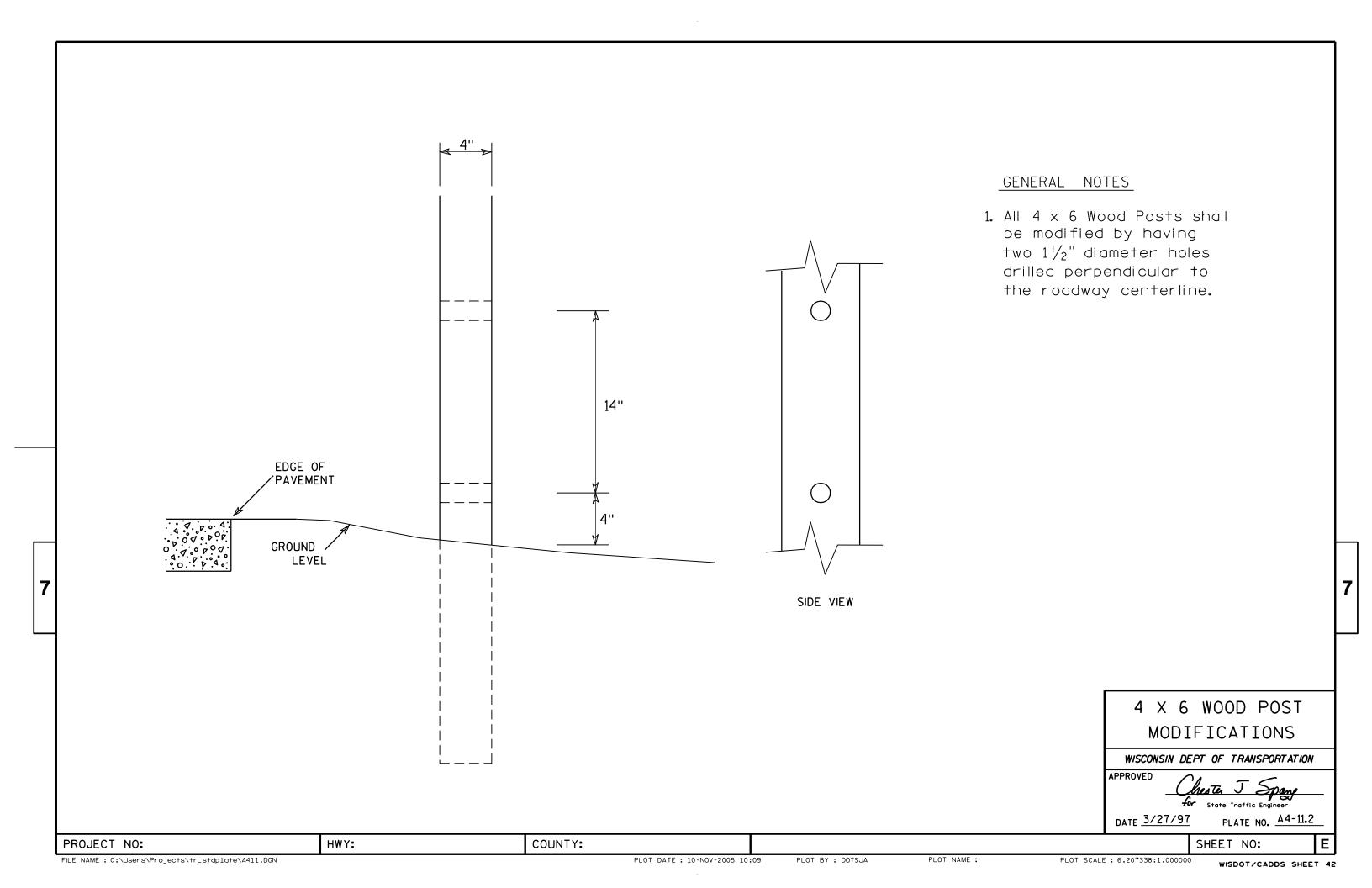
COUNTY:

PLOT NAME :

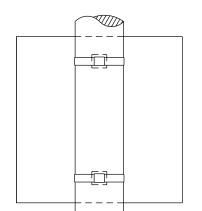
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

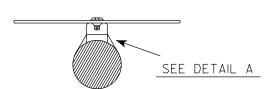
SECTION A-A

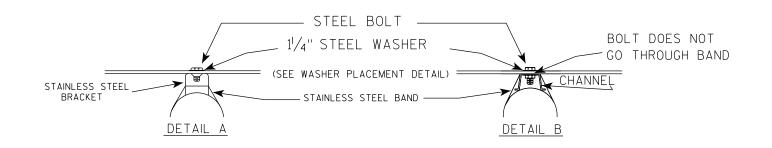


# BANDING

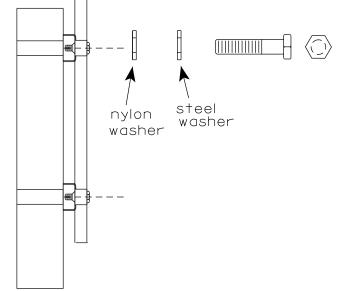


SINGLE SIGN





# WASHER PLACEMENT



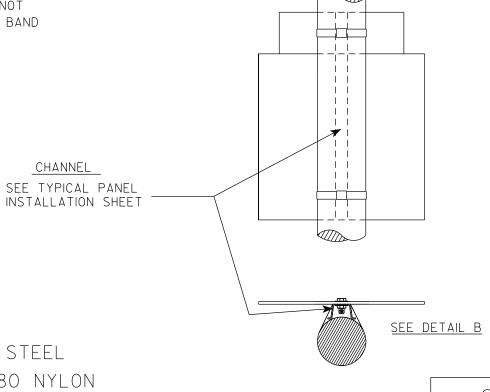
WASHERS (ALL POSTS) -

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

### GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be  $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

### "J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

State Traffic Engineer DATE 6/10/19

PLATE NO. A5-9.4

Ε

HWY:

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

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

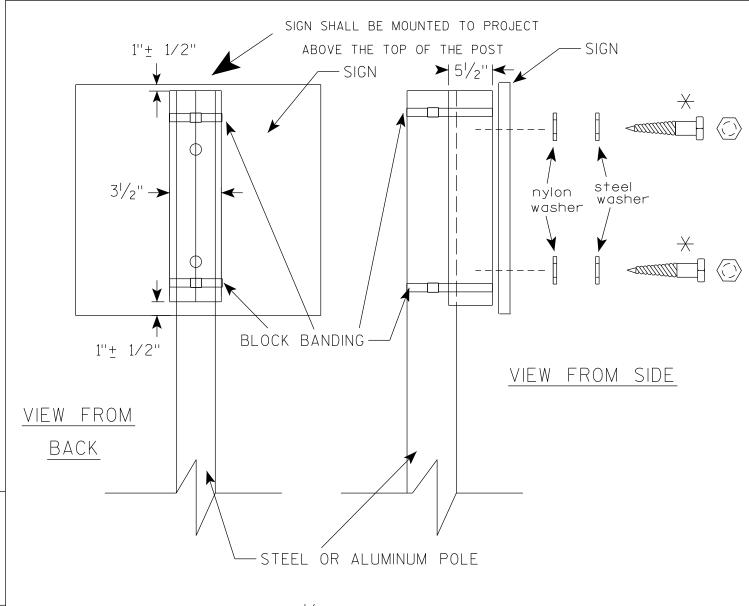
FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A59.dgn

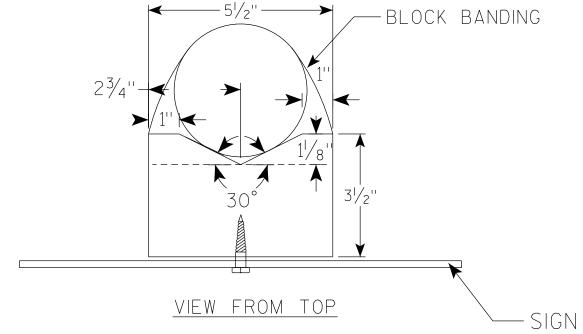
PROJECT NO:

PLOT BY: mscj9h

CHANNEL

SEE TYPICAL PANEL





## GENERAL NOTES

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

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

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

BLOCK BANDING DETAIL ( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

Matthew R

APPROVED

For State Traffic Engineer

SHEET NO:

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

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

PROJECT NO:

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

PLOT DATE: 10-JUN 2019 4:15

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42



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

Background - Red Message - White

3. Message Series - C

R	A ————————————————————————————————————	G						F		A
D E F G H I J K L	M N	0	P C	) R	S	Т	U	v	W	х

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

COUNTY:

STANDARD SIGN R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED \_

Matther R have for State Traffic Engineer

DATE 11/12/15

PLATE NO. \_\_\_\_\_R1-1.13

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R11.DGN

HWY:

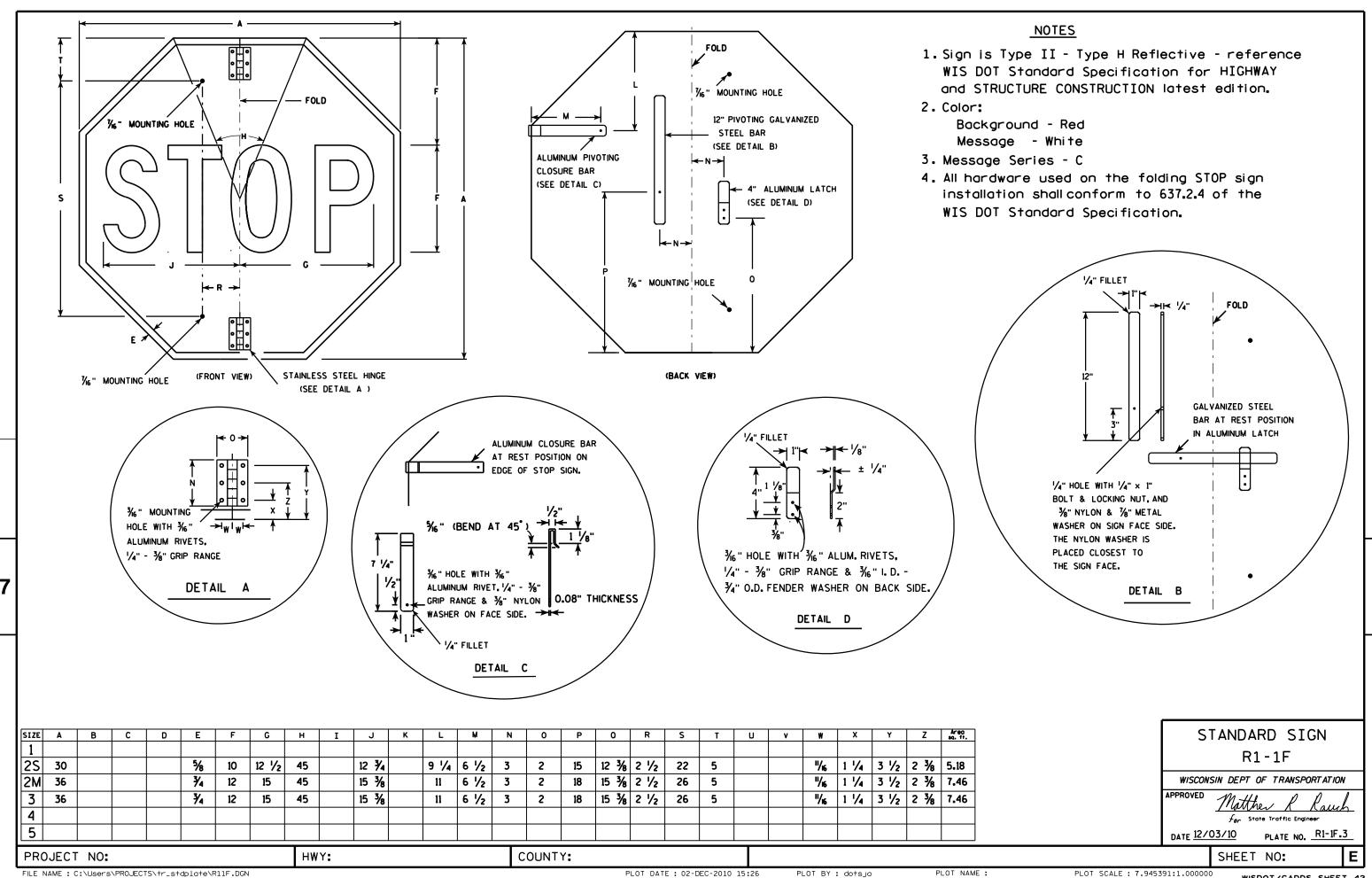
PROJECT NO:

PLOT DATE: 22-AUG-2017 07:19

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

PLOT SCALE: 4.427909:1.000000

WISDOT/CADDS SHEET 42



**NOTES** 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. 2. Color: Background - White Message - Black 3. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded. 5. The 6" border is non-reflective black. **←**E → "BLACK BORDER" R3-6V STANDARD SIGN R3-6V 11 3/4 11 1/2 7 13 1/4 2 3/8 36 42 48 14.0 2M WISCONSIN DEPT OF TRANSPORTATION 11 3/4 11 1/2 13 1/4 2 3/8 36 42 48 14.0 APPROVED 3 4 For State Traffic Engineer 5 DATE 3/17/2011 PLATE NO. R3-6V.2 HWY: COUNTY: PROJECT NO: SHEET NO: PLOT NAME :

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

Background - White Message - Black

- 3. Message Series D
- 4. Use appropriate Letter for Sign Code Each letter added makes sign wider. Example R3-8EAR
- 5. Square footage of sign varies by letters

2 Letters = 7.5 sq ft for Size 2 12.0 sq ft for Size 3

20.0 sq ft for Size 4 or 5

- 3 Letters = 11.25 sq ft for Size 2 18.0 sq ft for Size 3 30.0 sq ft for Size 4 or 5
- 4 Letters = 15.0 sq ft for Size 2 24.0 sq ft for Size 3 40.0 sq ft for Size 4 or 5
- 5 Letters = 18.75 sq ft for Size 2 30.0 sq ft for Size 3 50.0 sq ft for Size 4 or 5
- 6 Letters = 22.5 sq ft for Size 2 36.0 sq ft for Size 3 60.0 sq ft for Size 4 or 5
- 6. When letters C.D.G.H are used on the Left or Right end of the sign the Sq. Ft. changes.

Add the amounts when these letters are used:

1.25 sa ft for Size 2 1.5 sq ft for Size 3 2.0 sq ft for Size 4 or 5 STANDARD SIGN R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew For State Traffic Engineer

SHEET NO:

DATE <u>5/21/19</u> PLATE NO. R3-8.1

(G)

( | | | )

PLOT NAME :

### FILE NAME: C:\CAEfiles\Projects\stdplate\_R38.dgn

PROJECT NO:

(H)

 $(\Delta)$ 

(F)

 $(| \ )$ 

 $(\top)$ 

(F)

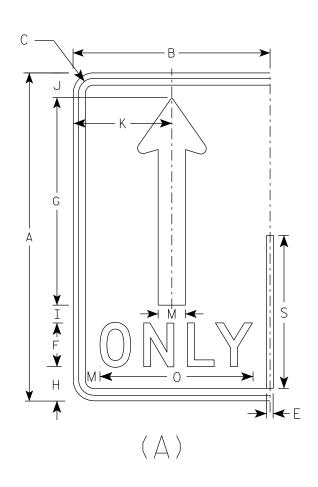
(R)

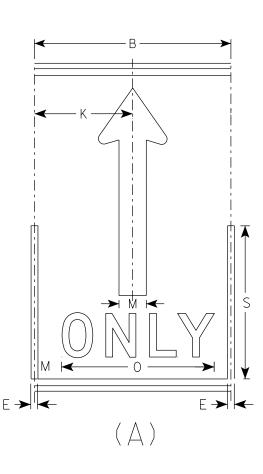
Ε

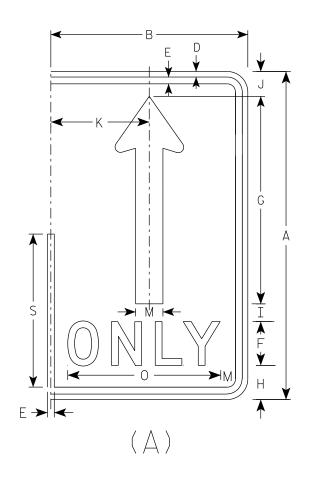
- 1. Sign is Type II Type H Reflective
- 2. Color:

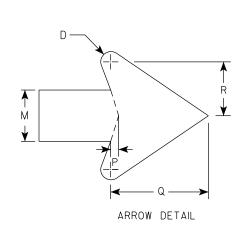
Background - White Message - Black

3. Message Series - D









SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 ¾	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 ¾								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 1/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 1/8	3 %	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN R3-8 (A) Arrow WISCONSIN DEPT OF TRANSPORTATION APPROVED State Traffic Engineer DATE 5/21/19

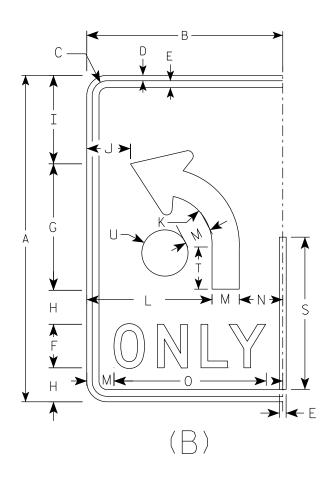
PLATE NO. <u>R3-8.1</u>

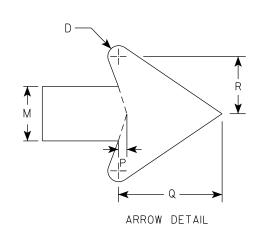
Ε PROJECT NO: HWY: COUNTY: SHEET NO:

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

Background - White Message – Black

Message Series - D





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2	14	3 1/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2	14	3 1/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

APPROVED Matther  $f_{or}$  State Traffic Engineer

WISCONSIN DEPT OF TRANSPORTATION

STANDARD SIGN

R3-8 (B) Arrow

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

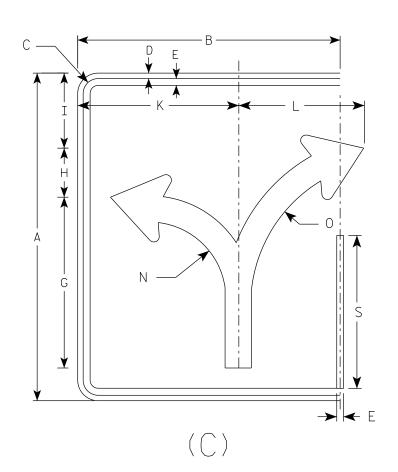
PLOT NAME :

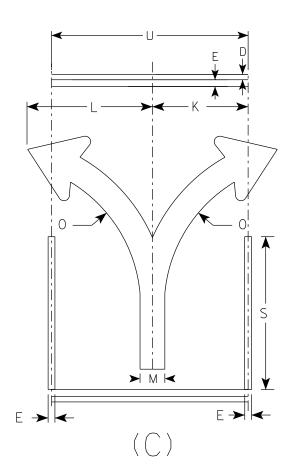
WISDOT/CADDS SHEET 42

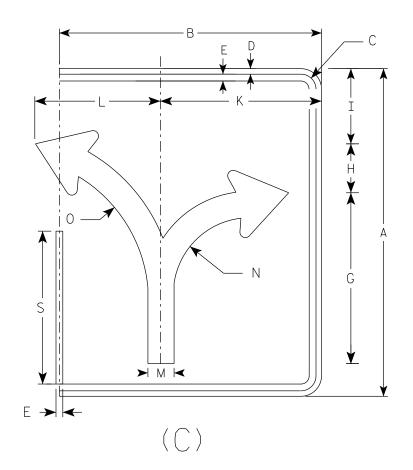
- 1. Sign is Type II Type H Reflective
- 2. Color:

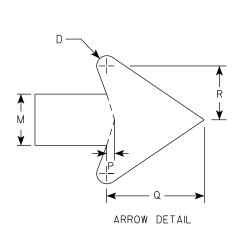
Background - White Message - Black

3. Message Series - None









																											ENDS	MIDDLE
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.	Area sq. ft.
1																												
25	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 %		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 1/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

COUNTY:

STANDARD SIGN R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

 $f_{or}$  State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

HWY:

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

PLOT NAME :

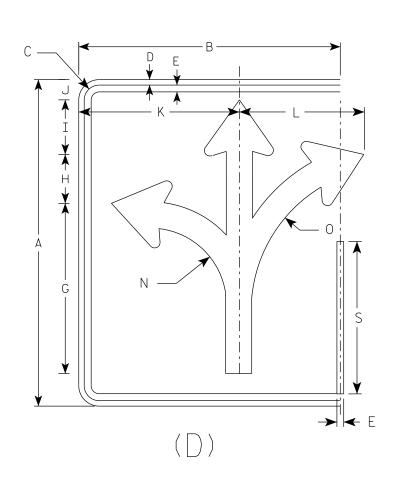
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

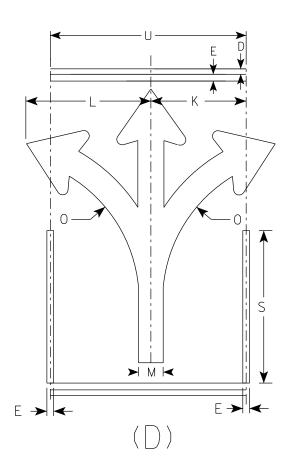
- 1. Sign is Type II Type H Reflective
- 2. Color:

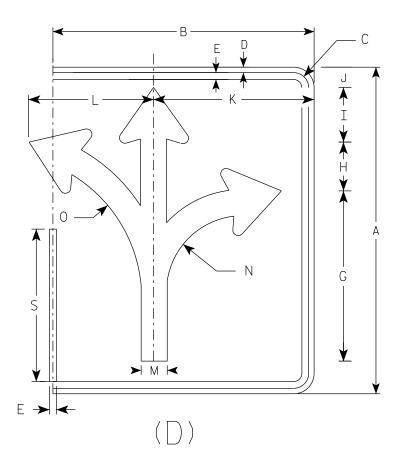
Background - White Message - Black

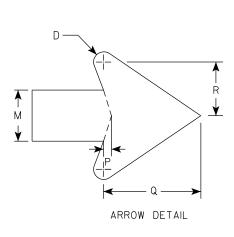
3. Message Series - None

ENDS MIDDLE









																									I	
SIZE	Α	В	С	D	E	F	G	Н	I	J K	L	М	N	0	Р	Q	R	S	T U	٧	W	X	Υ	Z	Area sq. ft.	Area sq. ft.
1																										
25	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 1/8 14 3/2	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14	18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 1/8 14 3/2	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14	18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4 17 1/.	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4	24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8 23 1/	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8	30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8 23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8	30						12.0	10.0

COUNTY:

STANDARD SIGN R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rawh

For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO: **E** 

FILE NAME: C:\CAEfiles\Projects\stdplate\_R38.dgn

HWY:

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY : mscj9h

PLOT NAME :

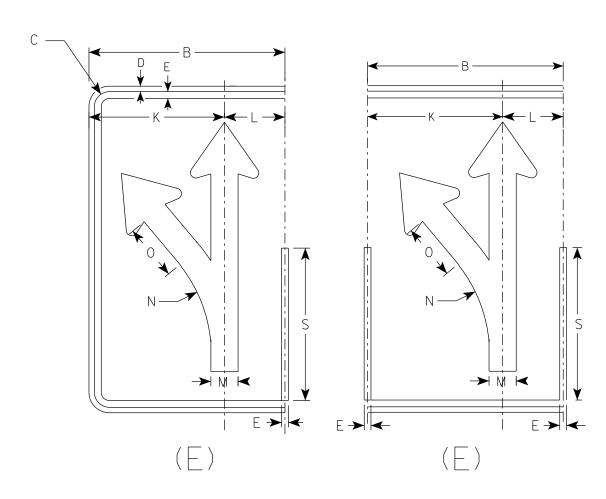
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

| 1

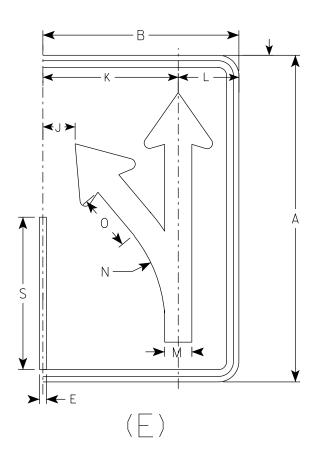
- 1. Sign is Type II Type H Reflective
- 2. Color:

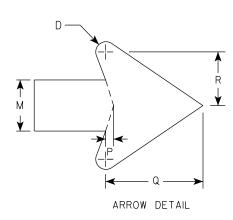
Background - White Message – Black

3. Message Series - None



HWY:





SIZE	А	В	С	D	Е	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	5 %	4	4 1/8	16 1/8	7 3/4	3	15 1/8	6 1/8	1/2			16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

COUNTY:

STANDARD SIGN R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

*for* State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1 Ε SHEET NO:

PLOT NAME :

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

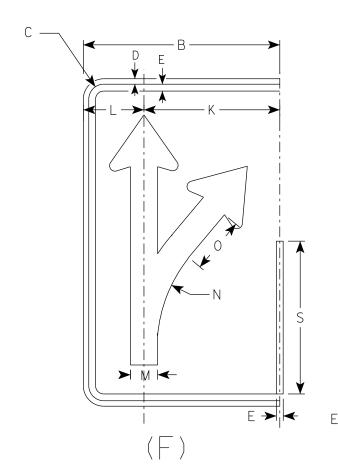
PLOT BY : mscj9h

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

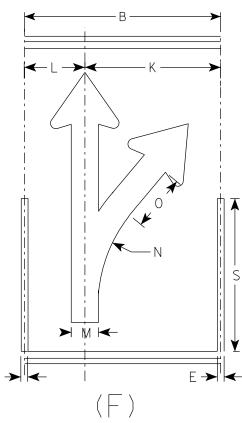
- 1. Sign is Type II Type H Reflective
- 2. Color:

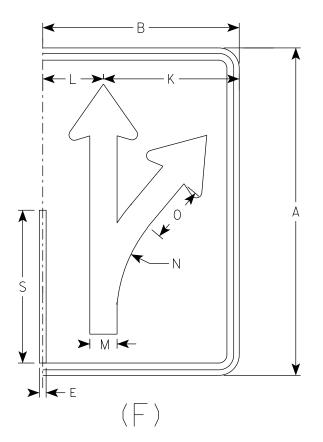
Background - White Message - Black

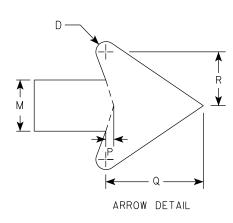
3. Message Series - None



HWY:







SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Χ	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	5	4	4 7/8	16 1/8	7 3/4	3	15 1/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

COUNTY:

STANDARD SIGN R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

 $f_{or}$  State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

Ε SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

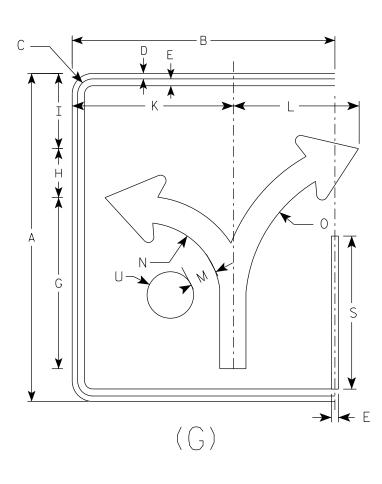
PLOT NAME :

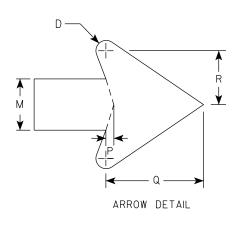
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

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

Background - White Message - Black

3. Message Series - None





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
25	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 1/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15	4 1/2	6 %		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

COUNTY:

STANDARD SIGN R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rauch
For State Traffic Engineer

DATE \_\_\_\_5/21/19\_\_\_\_\_PLATE NO. \_\_\_R3-8.1

SHEET NO: **E** 

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

PROJECT NO:

HWY:

PLOT DATE: 21-MAY 2019 4:38

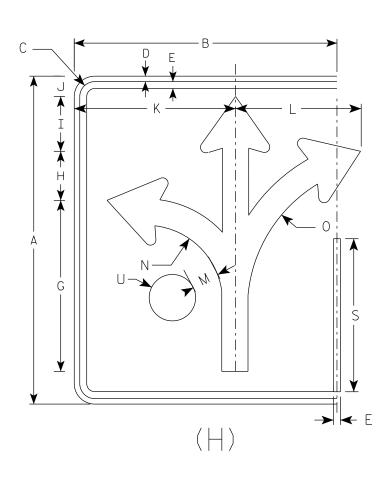
PLOT BY: mscj9h

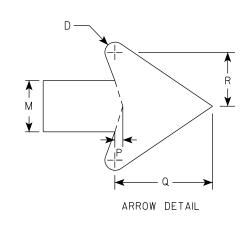
PLOT NAME :

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

Background - White Message - Black

3. Message Series - None





SIZE	А	В	С	D	E	F	G	I	I	J	K	L	М	N	0	Р	a	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	30	24	1 3/8	1/2	5/8		15	4 1/2	5	1 1/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 %	4 1/2	5	1 1/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

COUNTY:

STANDARD SIGN R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Raw For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO: **E** 

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

HWY:

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

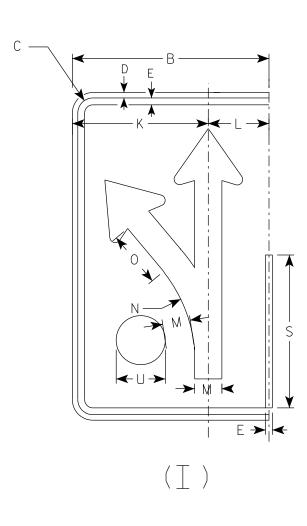
PLOT BY: mscj9h

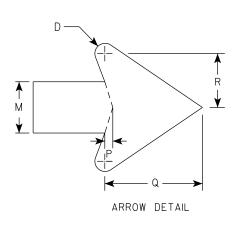
PLOT NAME :

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

Background - White Message - Black

3. Message Series - None





			1						1	1	T			1			T		1					T	1	1	Aron
SIZE	Α	В	C	D	E	F	G	Н	I	J	K	L	M	N	0	P	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	5 %	4	4 1/8	16 1/8	7 3/4	3	15 1/8	6 1/8	1/2	5 3/4	3 1/8	16 ¾		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4 2	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 %	4 1/4 2	22 3/8		3 3/8						10.0

COUNTY:

STANDARD SIGN R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R R

For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO: **E** 

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

HWY:

PROJECT NO:

PLOT DATE : 21-MAY 2019 4:38

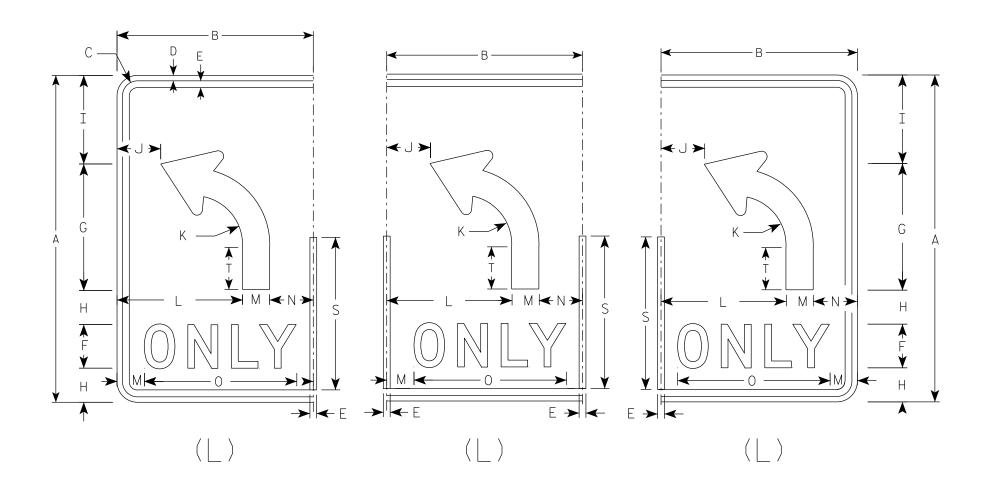
PLOT BY : mscj9h

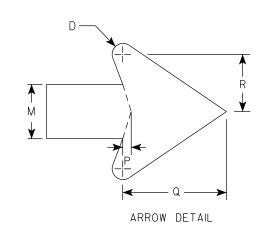
PLOT NAME :

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

Background – White Message – Black

3. Message Series - D





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Area sq. ft.
1																										
25	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 %						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4						10.0
5	48	30	2 1/4	3/4	1	6	18	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4						10.0

STANDARD SIGN R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rawh

For State Traffic Engineer

DATE <u>5/21/19</u> PLATE NO. <u>R3-8.1</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

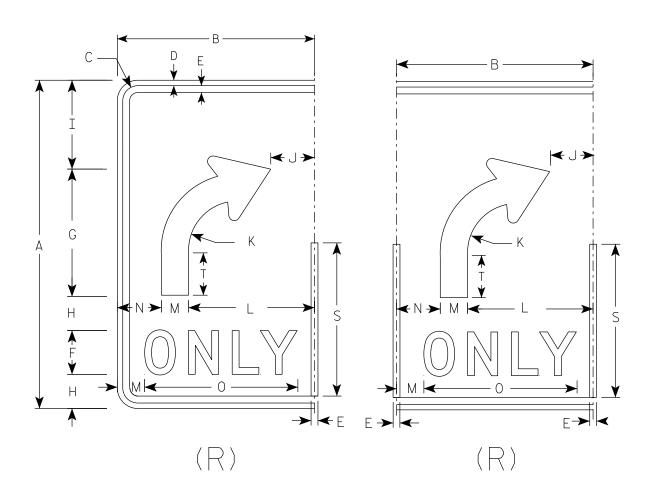
PLOT NAME :

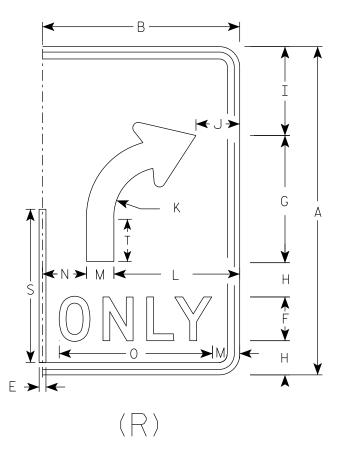
Ε

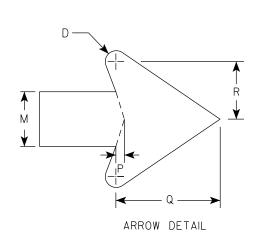
- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

3. Message Series - D







SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 1/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 1/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 %	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED //

For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO:

PROJECT NO:

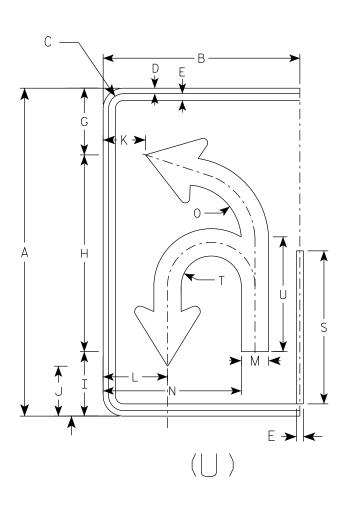
PLOT NAME :

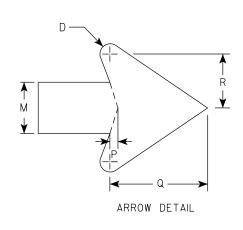
Ε

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

Background - White Message – Black

3. Message Series - None





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	Ν	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8		6 1/8	18	5 1/8	4 5/8	3 1/8	5 1/8	2 1/2	12	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 1/8	4 5/8	3 1/8	5 1/8	2 1/2	12	5 1/8	3/8	4 3/4	2	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	21 %	7 1/8	5 1/2	5 %	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 ¾	3 1/4	12						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 ¾	9 3/8	7 1/4	6 1/8	10	4	20 1/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 ¾	9 3/8	7 1/4	6 1/8	10	4	20	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 ¾						10.0

PROJECT NO:

STANDARD SIGN R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

 $f_{or}$  State Traffic Engineer

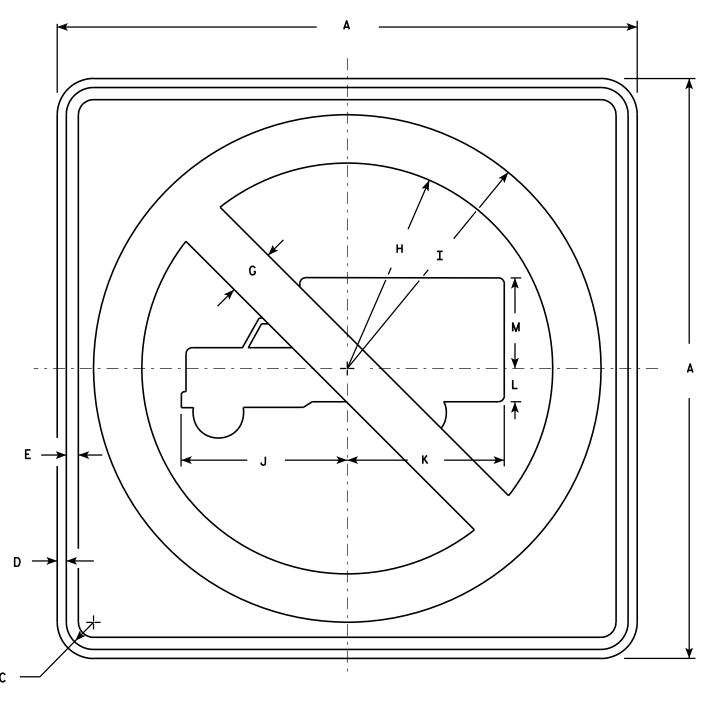
DATE 5/21/19 PLATE NO. R3-8.1 SHEET NO:

HWY: COUNTY: PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42 FILE NAME: C:\CAEfiles\Projects\stdplate\_R38.dgn PLOT DATE: 21-MAY 2019 4:38 PLOT BY : mscj9h PLOT NAME :

- 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 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Circle & Diagonal Reflective red. Truck Symbol & Border - Non-reflective black.



R5-2

SIZE	Α	В	С	D	E	F	G	Η	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 %	6 1/2	1 3/8	3 3/4														4.0
2M	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 %	6 1/2	1 3/8	3 3/4														4.0
3	30		1 3/8	1/2	5/8		2 1/2	10 %	13 1/8	8 1/2	8 1/8	1 5/8	4 3/4														6.25
4	36		1 5/8	5/8	3/4		3	12 ¾	15 ¾	10 1/4	9 3/4	2	5 3/4														9.0
5	48		2 1/4	3/4	1		4	17	21	13 %	13	2 %	7 %														16.0

COUNTY:

STANDARD SIGN R5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{or}$  State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-2.6

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R52.DGN

PROJECT NO:

HWY:

PLOT DATE: 29-MAR-2011 11:02

PLOT BY: mscsja

PLOT NAME :

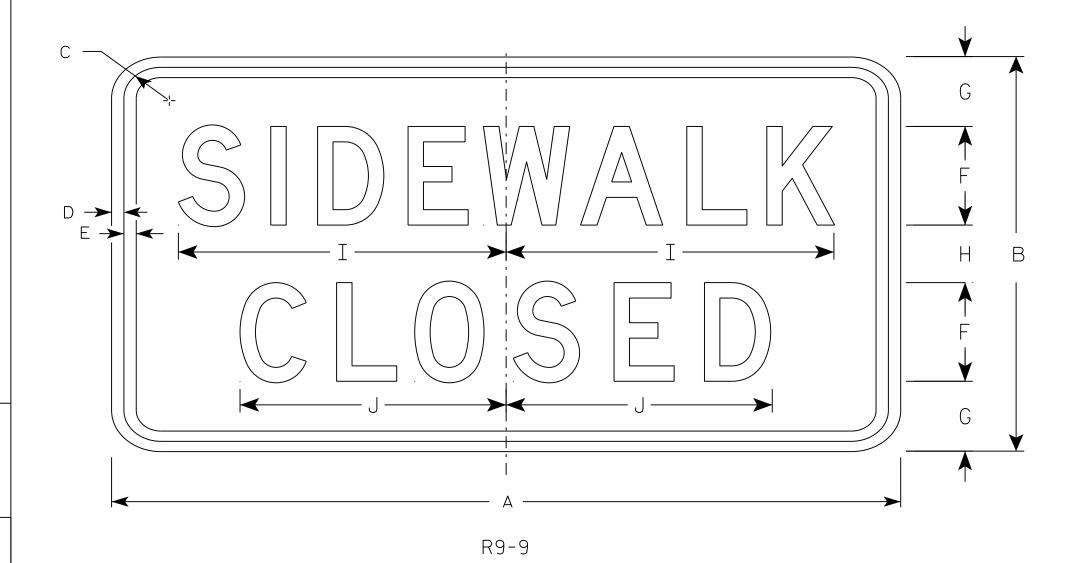
PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42

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

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.



SIZE A 2S 24 1 3/4 1/2 2 1/8 1 3/4 10 1/2 12 3 8 1/8 2.0 24 1 3/4 1/2 2 1/8 1 3/4 8 1/8 12 10 2.0 1 3/4 3 1/2 30 18 1/2 1/2 3 | 12 1/2 | 10 1/4 3.75

COUNTY:

STANDARD SIGN R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED M\_\_//

Manher R Ray

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

SHEET NO: R9-9.6

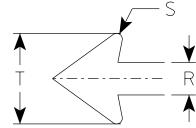
HWY:

PROJECT NO:

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

Background - White Message - Black

- 3. Message Series C except Size 1 is Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.
- 6. R9-11D (double arrow) R9-11L (left arrow) R9-11R (right arrow)



RQ_	. 11
$I \setminus J$	ΤŢ

SIZE	А	В	С	D	E	F	G	Н	I	J	K	Г	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																											
25	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 %	5 1/8		1	1/8	2 3/4							2.0
2M	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 %	5 1/8		1	1/8	2 3/4							2.0
3	30	15	1 1/8	3/8	1/2	2	1 1/2	1 1/2	13	3/4	2	10 1/4	4 5/8	12 3/8	8 1/8	6 1/8		1 1/4	1/4	3 5/8							3.125
4																											
5																											

COUNTY:

STANDARD SIGN R9-11

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

DATE 3/30/2021 PLATE NO. R9-11.4

Ε

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R911.dgn

HWY:

 $D \rightarrow$ 

PROJECT NO:

PLOT DATE: 30-MAR 2021 1:40

PLOT BY : dotc4c

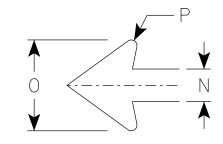
PLOT NAME :

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

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

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Use Size 2 for Sidewalks. Use Size 3 for paths and Trails.
- 6. R9-11AD (double arrow) R9-11AL (left arrow) R9-11AR (right arrow)



ARROW DETAIL

$C \longrightarrow A A$
SIDEWALK CLOSED F
F V
<b>▲</b>
R9-11A

SIZE	А	В	С	D	Е	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Υ	Z	Area sq. ft.
1																											
25	24	12	1 1/8	3/8	3/8	2	10 1/4	5/8	1 1/2	8 1/4	9 1/4	7	5 %	1	2 3/4	1/8											2.0
2M	24	12	1 1/8	3/8	3/8	2	10 1/4	5/8	1 1/2	8 1/4	9 1/4	7	5 %	1	2 3/4	1/8											2.0
3	30	15	1 1/8	3/8	1/2	2 1/2	12 3/4	1/2	2	10 1/4	12 3/8	8	6 3/4	1 1/4	3 5/8	1/4											3.125
4																											
5																											

STANDARD SIGN R9-11A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 3/31/2021

PLATE NO. <u>R9-11A.5</u>

Ε COUNTY: PROJECT NO: HWY: SHEET NO: PLOT NAME :

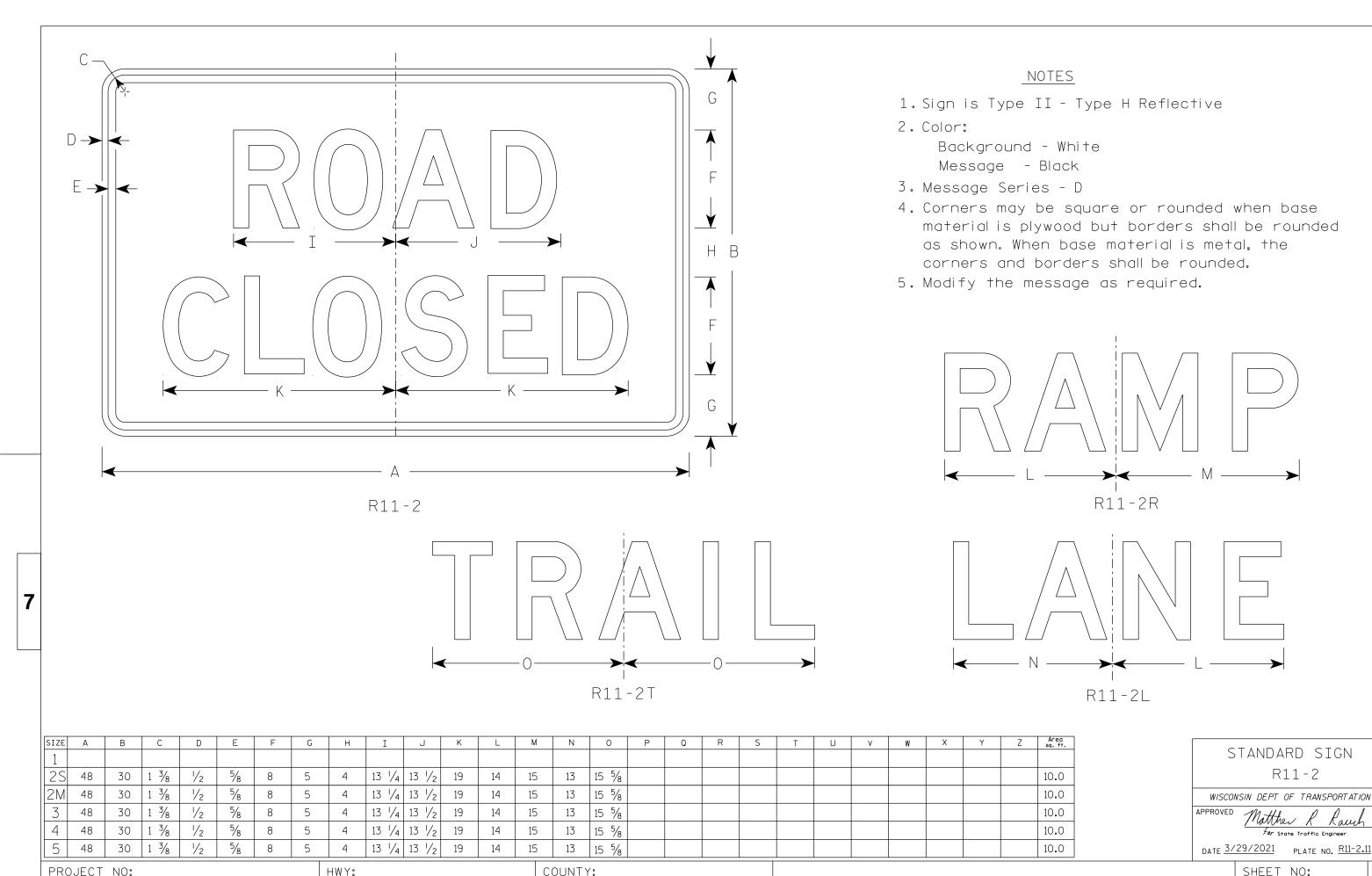
FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\R911A.dgn

PLOT DATE: 31-MAR-2021 6:30

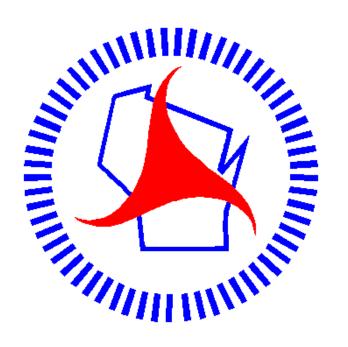
PLOT BY : dotc4c

PLOT SCALE :

WISDOT/CADDS SHEET 42



Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov