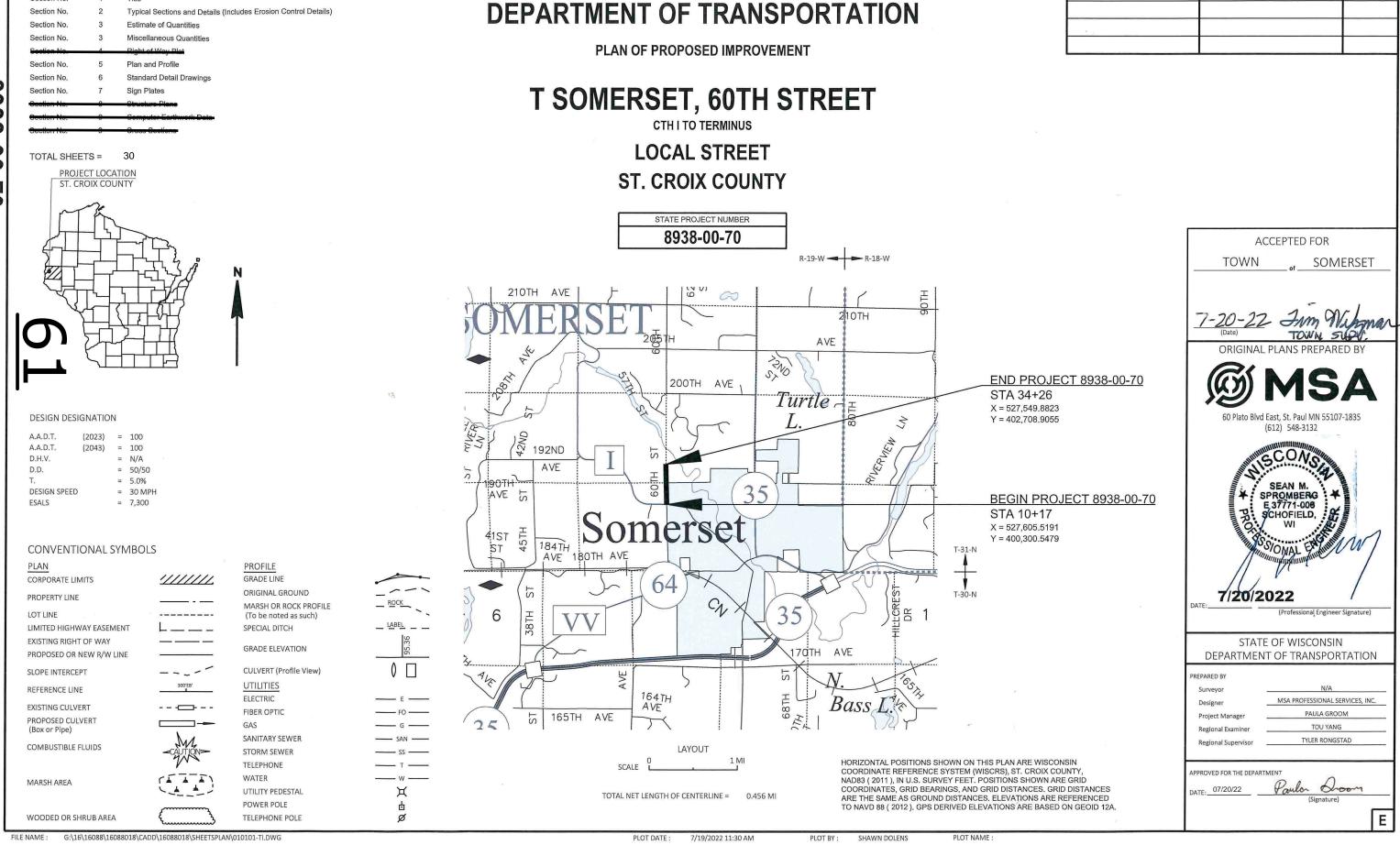
PROJECT WITH: N/A

NOVEMBER 2022

ORDER OF SHEETS

Ö



STATE OF WISCONSIN

FEDERAL PROJECT

PROJECT

WISC 2023058

CONTRACT

STATE PROJECT

8938-00-70

STANDARD ABBREVIATIONS

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE AREA THAT ARE NOT SHOWN.

R/W APPROXIMATED ON PLAN SHEETS BASED ON AS-BUILTS/GIS DATA.

THE 3" HMA PAVEMENT SHALL CONSIST OF A 1.25" UPPER LAYER OF 5 LT 58-34 S (9.5 MM NOMINAL-SIZE AGGREGATE) AND A 1.75" LOWER LAYER OF 4 LT 58-28 S (12.5 MM NOMINAL-SIZE AGGREGATE).

SECTION 2 ORDER

GENERAL NOTES

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS

AS-BUILTS

TOWN OF SOMERSET, 60TH STREET; DJ FEDDERLY MANAGEMENT CONSULTANT LLC DESIGN COMPLETED: 2017 CONSTRUCTION COMPLETED: 2020

AC	ACRE
AGG	AGGREGATE
<	ANGLE
ASPH	ASPHALTIC
AC	ASPHALT CEMENT
ADT	AVERAGE DAILY TRAFFIC
B & B	BALLED AND BURLAPPED
BM	BENCH MARK
СВ	CATCH BASIN
`OR C/L	CENTER LINE
C-C	CENTER TO CENTER
CONC	CONCRETE
CO	COUNTY
CTH	COUNTY TRUNK HIGHWAY
CY	CUBIC YARD
CULV	CULVERT
CP	CULVERT PIPE
CPRC	CULVERT PIPE
	REINFORCED CONCRETE
C & G	CURB AND GUTTER
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
DIA OR	DIAMETER
DIST	DISTRICT
DWY	DRIVEWAY
E	EAST
X	EAST GRID COORDINATE
EB	EASTBOUND FLECTRIC
ELEC	FIFVATION
EL OR ELEV EMB	FMBANKMENT
FW	FNDWALL
ESALS	EQUIVALENT SINGLE
LUMLU	AXI F LOADS
EXC	FXCAVATION
FBS	EXCAVATION BELOW
	SUBGRADE
EXIST	EXISTING

FXPANSION

FACE TO FACE

FIELD ENTRANCE

FERTILIZER

F-F

FE

FERT

F/L	FLOW LINE	SALV
FT	FOOT	SAN
GN	GRID NORTH	SECT
HR	HANDICAP RAMP	SHLDR
HT	HEIGHT	SW
CWT	HUNDREDWEIGHT	S
HYD	HYDRANT	SB
IN DIA	INCH DIAMETER	SPECS
INL	INLET	SQ
ID	INSIDE DIAMETER	SF OR S
1	INTERSECTION ANGLE	SY
IE	INVERT ELEVATION	SSPRC
IP	IRON PIPE OR PIN	
JCT	JUNCTION	STD
L	LENGTH OF CURVE	SDD
LF	LINEAR FOOT	STH
LC	LONG CHORD OF CURVE	STA
LCB	LONG CHORD BEARING	SS
LS	LUMP SUM	Т
MH	MANHOLE	TEL
N	NORTH	TEMP
Υ	NORTH GRID COORDINATE	TLE
OE	OUTLET ELEVATION	T
OL	OUT LOT	TC
OD	OUTSIDE DIAMETER	TN
ОН	OVERHEAD LINES	TRANS
PAVT	PAVEMENT	Т
PLE	PERMANENT LIMITED EASEMENT	TYP
PC	POINT OF CURVATURE	UNCL
PI	POINT OF INTERSECTION	USH
PT	POINT OF TANGENCY	VAR
PCC	PORTLAND CEMENT CONCRETE	VERT
LB	POUND	VC
PE	PRIVATE ENTRANCE	VOL

SHLDR SHOULDER SW SIDEWALK SOUTH SOUTHBOUND SPECS SPECIFICATIONS SQUARE SF OR SQ FT SQUARE FEET SQUARE YARD STORM SEWER PIPE REINFORCED CONCRETE STD STANDARD STANDARD DETAIL DRAWINGS SDD STH STATE TRUNK HIGHWAYS STA STATION STORM SEWER TANGENT TELEPHONE TEMP TEMPORARY TOP OF CURB TOWN TRANS TRANSITION TRUCKS (percent of) TYPICAL UNCLASSIFIED USH UNITED STATES HIGHWAY

SANITARY SEWER

SECTION

TLE TEMPORARY LIMITED EASEMENT
T TON
TC TOP OF CURB
TN TOWN
TRANS TRANSITION
T TRUCKS (percent of)
TYP TYPICAL
UNCL UNCLASSIFIED
USH UNITED STATES HIGHWAY
VAR VARIABLE
VCRT VERTICAL
VC VERTICAL
VC VERTICAL CURVE
VOL VOLUME
WM WATER MAIN
WV WATER VALVE
W WEST
WB WESTBOUND
YD YARD

UTILITY CONTACTS

<u>GAS</u>

MIDWEST NATURAL GAS
RANDY RISEN
3600 STATE HWY 157, STE 200
P.O. BOX 429
LA CROSSE, WI 54602-0429
PHONE (OFFICE): (608) 781-1011
EMAIL: RANDYR@MIDWESTNATURALGAS.COM

TELEPHONE

SOMERSET TELEPHONE COMPANY
GREG CARDINAL
116 HARRIMAN AVE N
AMERY, WI 54001
PHONE (OFFICE): (715) 268-3379
PHONE (CELL): (715) 554-1620
EMAIL: GREGCARDINAL@AMERYTEL.NET

ELECTRIC

XCEL ENERGY
BILL JOHNSON
2001 OLD HWY 35 S
HUDSON, WI 54015
PHONE (OFFICE): (715) 377-1825
PHONE (CELL): (715) 977-7229
EMAIL: WILLIAM.D.JOHNSON@XCELENERGY.COM

* NOT A DIGGERS HOTLINE MEMBER

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

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP											
		ŀ	Ą				С		D				
	SLOPE RANGE (PERCENT)			SLOP	E RANGI	E (PERCENT)	SLOP	E RANGI	E (PERCENT)	SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2 2-6 6 & OVER			2-6	6 & OVER	0-2	2-6	6 & OVER	
MEDIAN STRIP TURF	0.19	0.20	0.24	0.19	0.22	0.26	0.20	0.23	0.30	0.20	0.25 0.32	0.30 0.40	
SIDE SLOPE TURF			0.25			0.27			0.28			0.30 0.38	
PAVEMENT:						0.40 - 0.60							
ASPHALT:						0.70 - 0.95							
CONCRETE:					0.80 - 0.95								
BRICK:						0.70 - 0.80							
DRIVES, WALKS:						0.75 - 0.85							
ROOFS:						0.75 - 0.95							
GRAVEL ROADS, SI	HOULDER	lS				0.40 - 0.60							

HWY: 60TH ST

TOTAL PROJECT AREA = 3.65 ACRES

PROJECT NO:

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0 ACRES

MSA DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. CHUCK SCHWARTZ 60 PLATO BLVD EAST SUITE 140 ST. PAUL, MN 55107-1835 PHONE: (612) 548-3141

PHONE: (612) 548-3141 EMAIL: CSCHWARTZ@MSA-PS.COM

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES AMY LESIK DNR WEST CENTRAL REGION HEADQUARTERS 1300 W CLAIREMONT AVE EAU CLAIRE, WI 54701-6127 PHONE: (715) 495-1903 EMAIL: AMYLLESIK@WISCONSIN.GOV

TOWN CONTACT

TOWN OF SOMERSET JERI KOESTER 748 STATE HWY 35 SOMERSET, WI 54025 PHONE: (715) 247-5982

EMAIL: TOWNCLERK@TOWNOFSOMERSETWI.COM

CLERKE TOWNOT SOMERSET WILCOM

SHEET

TE

FILE NAME : G:\16\16088\16088018\CADD\16088018\SHEETSPLAN\020101-GN.DWG

8938-00-70

G:\16\16088\16088018\CADD\16088018\SHEETSPLAN\020101-GN.DWG

COUNTY: ST. CROIX

7/19/2022 1:40 PM

R OR RAD

~ OR R/L

REQD

R/W

RT

RR

RADIUS

RANGE

RIGHT

ROAD

RAILROAD

REQUIRED

REFERENCE LINE

RIGHT-OF-WAY

PLOT BY: SHAWN DOLENS

GENERAL NOTES

PI O

PLOT SCALE :

1 IN:100 FT



LAYOUT NAME - 01

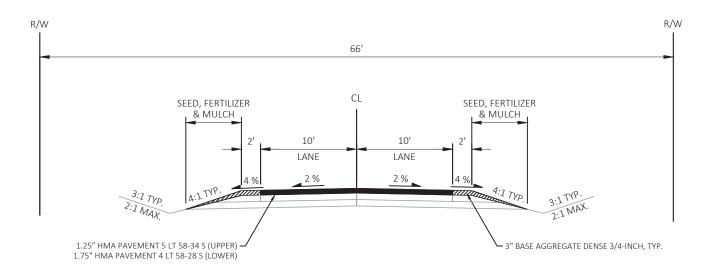
R/W R/W 66' 10' 2 %

← 4" BASE AGGREGATE 3/4-INCH DENSE SHOULDER

4" BASE AGGREGATE DENSE 3/4-INCH

► 4-6" GRAVEL ROADBED

EXISTING TYPICAL SECTION STA. 10+17 - STA. 33+60



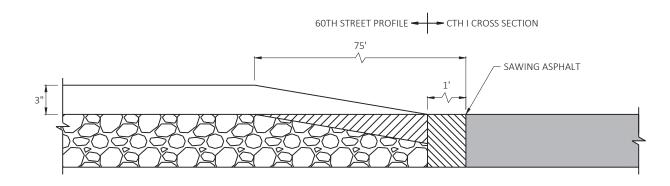
FINISHED TYPICAL SECTION STA. 10+17 - STA. 33+60

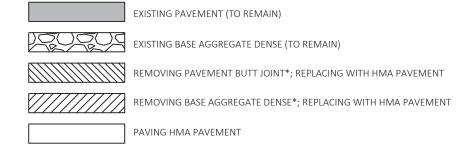
Ε 8938-00-70 HWY: 60TH ST COUNTY: ST. CROIX SHEET PROJECT NO: TYPICAL SECTIONS G:\16\16088\16088018\CADD\16088018\SHEETSPLAN\020301-TS.DWG LAYOUT NAME - 01 FILE NAME : PLOT DATE : 7/19/2022 11:49 AM PLOT BY: SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT

5

2

WISDOT/CADDS SHEET 42

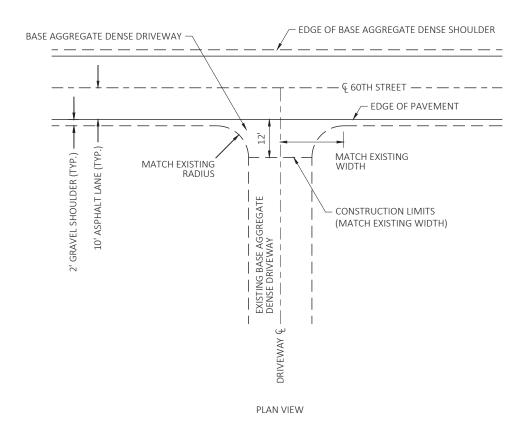




BUTT JOINT DETAIL

NOT TO SCALE

USE WHERE 60TH STREET ABUTS CTH I
*INCIDENTAL TO REMOVING ASPHALTIC SURFACE BUTT JOINTS



PRIVATE ENTRANCE AND FIELD ENTRANCE BASE AGGREGATE DENSE DETAIL

NOT TO SCALE USE FOR ALL GRAVEL DRIVEWAY ENTRANCES

LAYOUT NAME - 01



G:\16\16088\16088018\CADD\16088018\SHEETSPLAN\025101-TC.DWG LAYOUT NAME - 01 PLOT DATE : 7/19/2022 2:28 PM PLOT BY: SHAWN DOLENS PLOT NAME :

8938-00-70

					0930-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	204.0115	Removing Asphaltic Surface Butt Joints	SY	200.000	200.000
0004	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 8938-00-70	EACH	1.000	1.000
0006	213.0100	Finishing Roadway (project) 01. 8938-00-70	EACH	1.000	1.000
8000	305.0110	Base Aggregate Dense 3/4-Inch	TON	392.000	392.000
0010	450.4000	HMA Cold Weather Paving	TON	911.000	911.000
0012	455.0605	Tack Coat	GAL	380.000	380.000
0014	460.2000	Incentive Density HMA Pavement	DOL	590.000	590.000
0016	460.5224	HMA Pavement 4 LT 58-28 S	TON	531.000	531.000
0018	460.5245	HMA Pavement 5 LT 58-34 S	TON	380.000	380.000
0020	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8938-00-70	EACH	1.000	1.000
0022	619.1000	Mobilization	EACH	1.000	1.000
0024	624.0100	Water	MGAL	7.900	7.900
0026	627.0200	Mulching	SY	2,790.000	2,790.000
0028	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0030	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0032	629.0210	Fertilizer Type B	CWT	2.000	2.000
0034	630.0120	Seeding Mixture No. 20	LB	76.000	76.000
0036	630.0500	Seed Water	MGAL	63.000	63.000
0038	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	1.000	1.000
0040	637.2210	Signs Type II Reflective H	SF	5.000	5.000
0042	642.5001	Field Office Type B	EACH	1.000	1.000
0044	643.0300	Traffic Control Drums	DAY	120.000	120.000
0046	643.0420	Traffic Control Barricades Type III	DAY	24.000	24.000
0048	643.0705	Traffic Control Warning Lights Type A	DAY	48.000	48.000
0050	643.0900	Traffic Control Signs	DAY	36.000	36.000
0052	643.5000	Traffic Control	EACH	1.000	1.000
0054	650.5000	Construction Staking Base	LF	2,343.000	2,343.000
0056	650.8000	Construction Staking Resurfacing Reference	LF	2,343.000	2,343.000
0058	650.9911	Construction Staking Supplemental Control (project) 01. 8938-00-70	EACH	1.000	1.000
0060	690.0150	Sawing Asphalt	LF	52.000	52.000
0062	740.0440	Incentive IRI Ride	DOL	1,840.000	1,840.000
0064	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0066	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
		-			

204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS STATION TO STATION LOCATION SY 60TH STREET 200 10+17 10+92

TOTAL 0010 200

				305.0110 BASE AGGREGATE DENSE 3/4-INCH	624.0100 WATER
STATION	TO	STATION	LOCATION	TON	MGAL
10+17	-	34+26	SHOULDERS	360	7.2
33+95	-	34+26	RT	3	0.1
13+33	-	34+26	DRIVEWAYS	29	0.6
			TOTAL 0010	392	7.9

STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT58-28 S TON	460.5245 HMA PAVEMENT 5 LT 58-34 S TON
10+17	-	34+24	MAINLINE LOWER LAYER	376	526	_
10+17	-	34+24	MAINLINE UPPER LAYER			376
33+56.25	-	34+06.25	TURN-AROUND LOWER LAYER	4	5	
33+56.25	-	34+06.25	TURN-AROUND UPPER LAYER			4
			TOTAL 0010	380	531	380

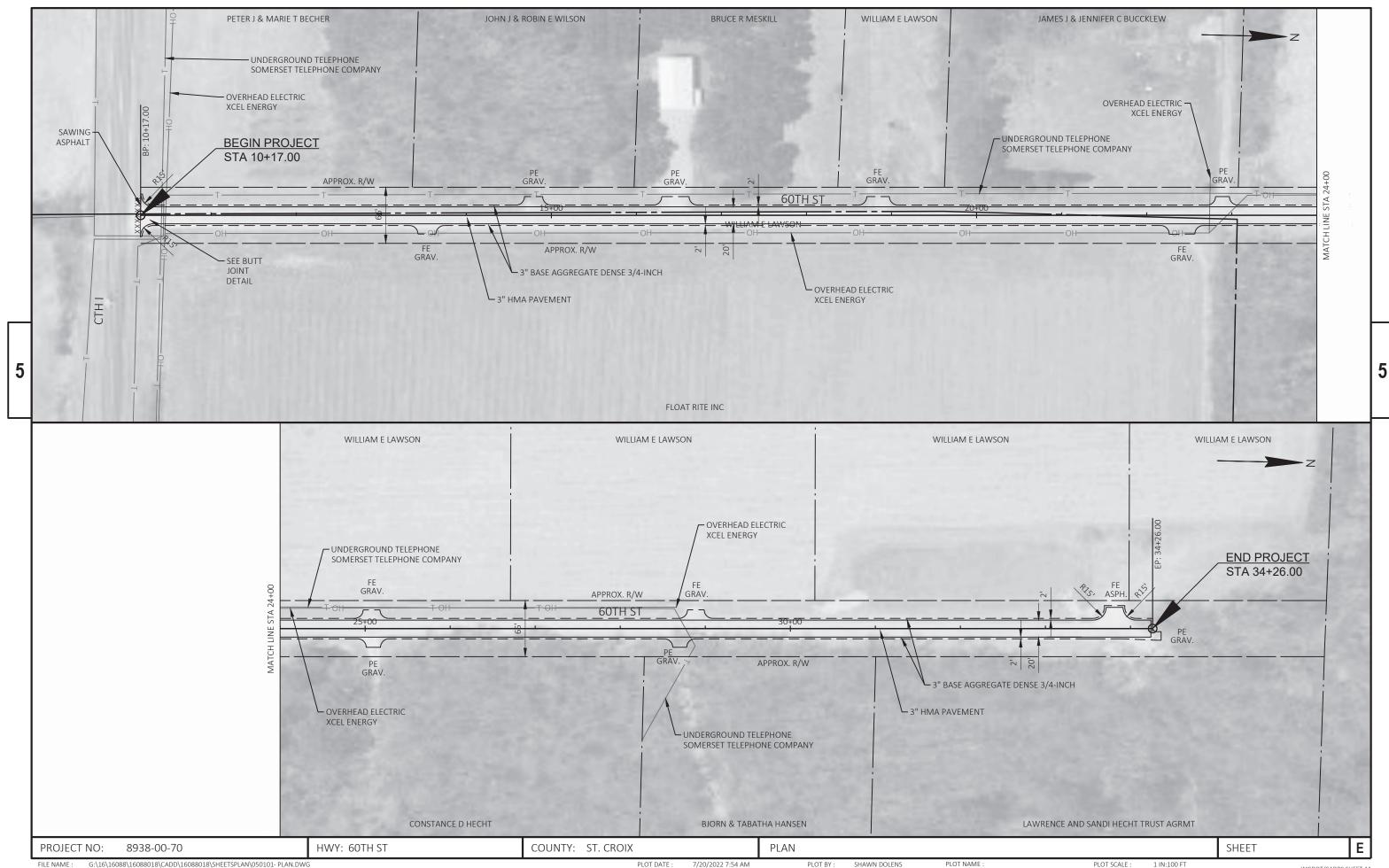
					627.0200	628.1905 MOBILIZATIONS	628.1910 MOBILIZATIONS EMERGENCY	629.0210	630.0120	630.0500
						EROSION	EROSION	FERTILIZER TYPE	SEEDING	
					MULCHING	CONTROL	CONTROL	В	MIXTURE NO. 20	SEED WATER
S	TATION	TO	STATION	LOCATION	SY	EACH	EACH	CWT	LB	MGAL
	10+17	-	34+26	OUTSIDE ROAD SHOULDER	2,790	2	1	2	76	63
				TOTAL 0010	2,790	2	1	2	76	63

HWY: 60TH ST SHEET: Е PROJECT NO: 8938-00-70 COUNTY: ST. CROIX MISCELLANEOUS QUANTITIES

1	_
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						STAT	ΓΙΟΝ		I	LOCATION		634.06 POSTS WO 4X6-INCH FT EACH	OOD X 16-	637.2210 SIGNS TYPE II REFLECTIVE H SF		
						12+				RT		1		5		
									Ti	OTAL 0010	ı	1		5		
									,	01AL 0010		1		J		
							643	3.0300)	643.0- TRAFI		643.0 TRAF		643.0900		
								AFFIC NTROL		CONTI BARRIC		CONT WARN		TRAFFIC		
								RUMS		TYPE		LIGHTS		CONTROL SIGNS		
S	TATION	TO	STATION		LOCATION		D	DAY		DA	Y	DA	Y	DAY	REMARI	(S
	10+17	-	34+26		PROJECT UNDISTRIBUT	ED		 120		24		48 		36 	PLACE ALONG CTH I AS NECES	SARY FOR OPERATIONS
					TOTAL 0010)	1	120		24		48	3	36		
						STATIO	ON_	ТО	S	STATION		LOCATIO	N	690.0150 SAWING ASPHALT LF		
						10+1	.7	-		10+17		60TH STRE	ET	52		
												TOTAL 001	LO	52		
									650.	.5000	650	0.8000	(650.9911.01		
										RUCTION IG BASE	ST. RESU	TRUCTION AKING RFACING ERENCE	SI CONT	TRUCTION STAKING UPPLEMENTAL ROL (PROJECT) (01. 8938-00-70)		
			STATION	TO	STATION	LOCATIO	N			_F		LF		EACH	REMARKS	
			10+17	-	33+60	PROJECT	Г		2,	343	2	,343		1		
						TOTAL 001	10		2,	343	2	,343		1		

PROJECT NO: 8938-00-70 HWY: 60TH ST COUNTY: ST. CROIX MISCELLANEOUS QUANTITIES SHEET: **E**

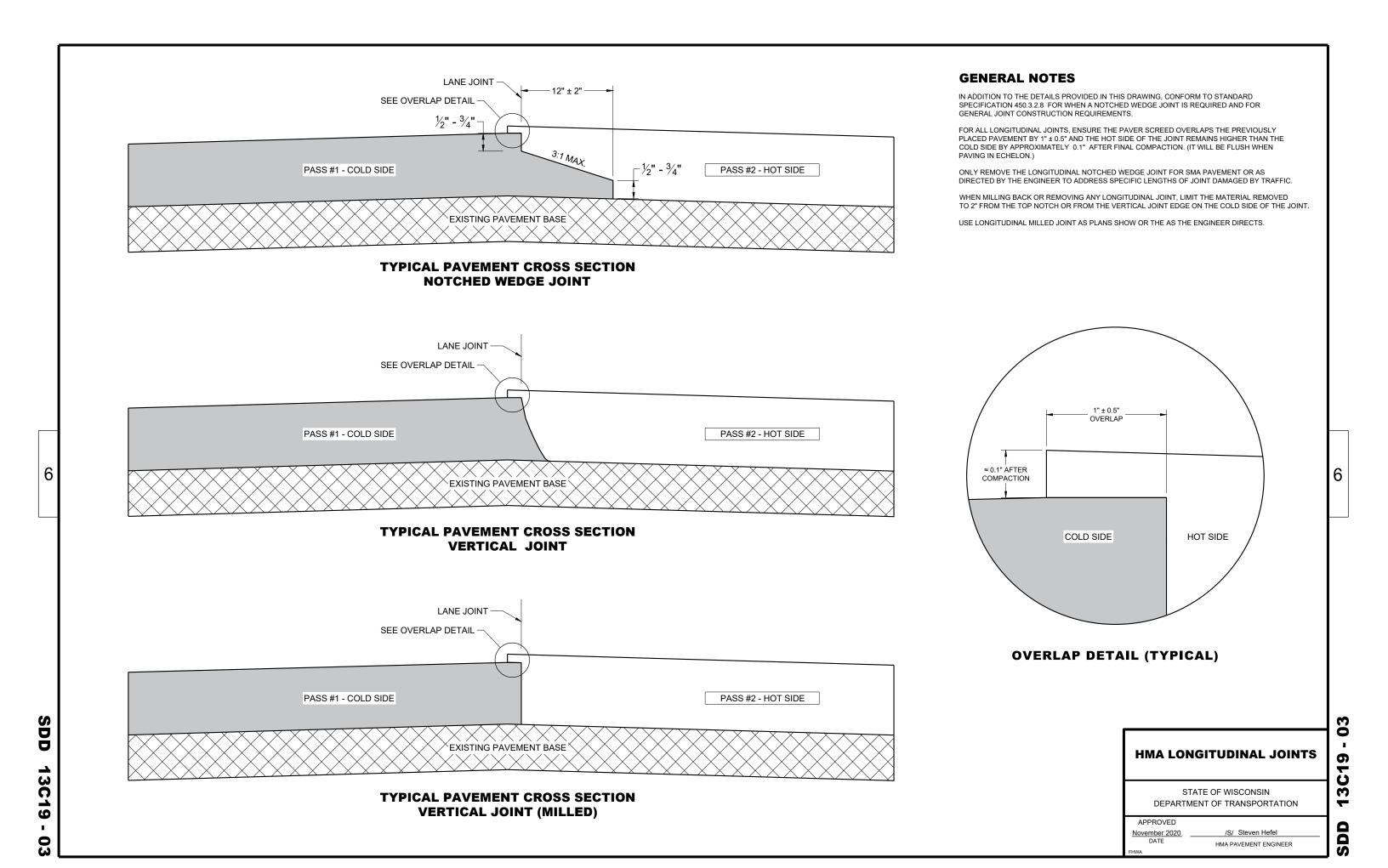


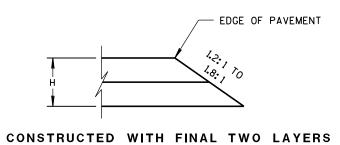
LAYOUT NAME - 050101-pn

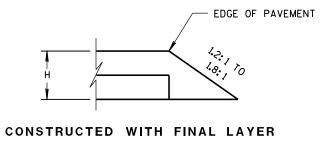
Standard Detail Drawing List

13C19-03	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING

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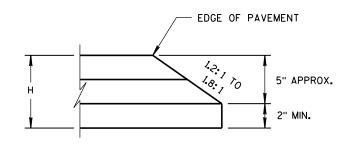


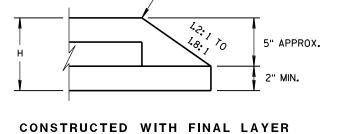




FOR H 5" OR LESS

FOR H 5" OR LESS





EDGE OF PAVEMENT

FOR H GREATER THAN 5"

FOR H GREATER THAN 5"

ASPHALT
SAFETY EDGE —

FINISHED SHOULDER AGGREGATE PLACEMENT

- EDGE OF PAVEMENT

HMA PAVEMENT AND HMA OVERLAYS

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

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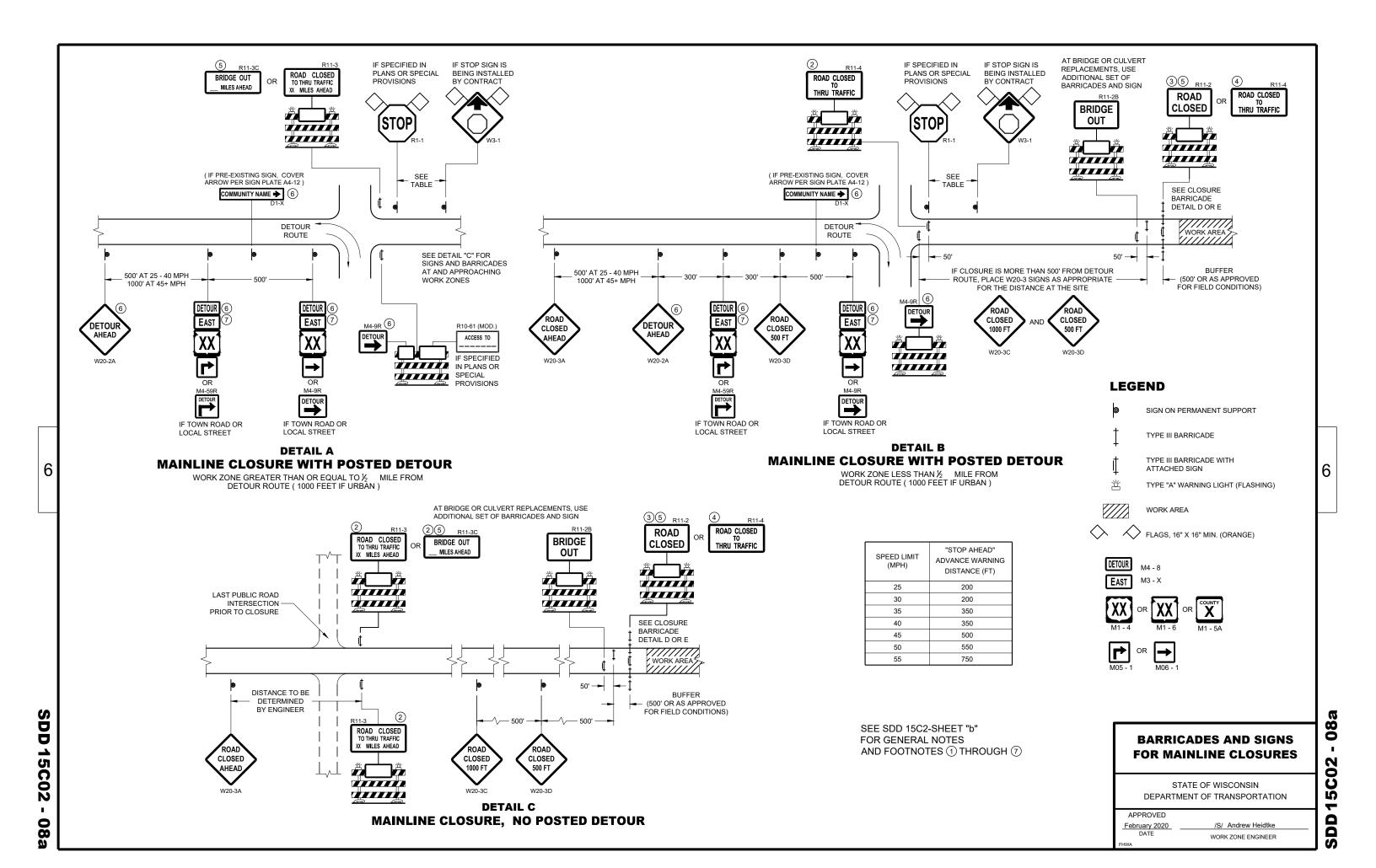
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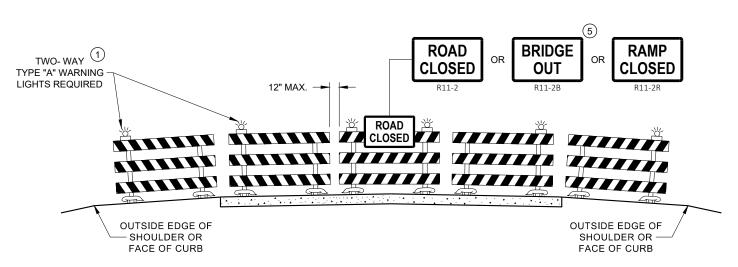
APPROVED

BASE AGGREGATE DENSE

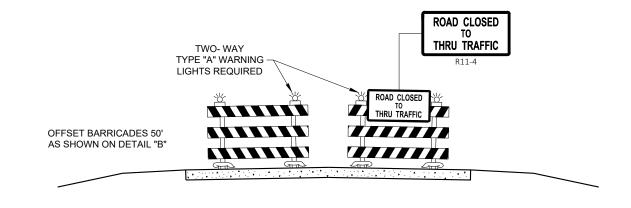
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

6





DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

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

M4 - 9 SHALL BE 30" X 24"

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

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

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

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS) D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 2 AND R11 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

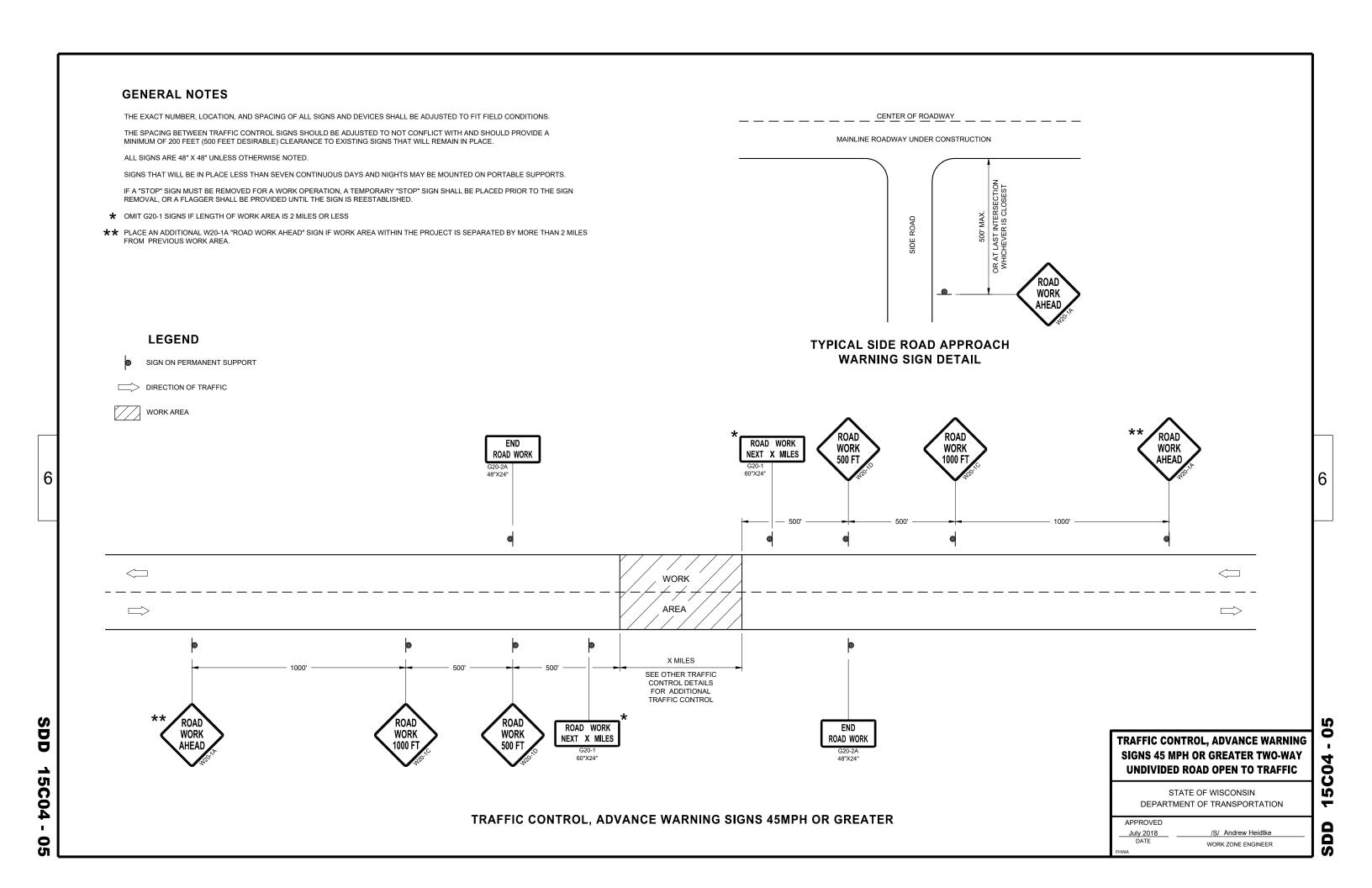
APPROVED

February 2020 ____

/S/ Andrew Heidtke
WORK ZONE ENGINEER

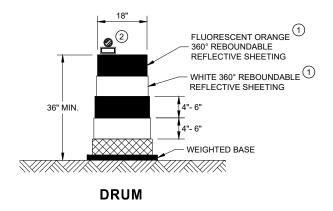
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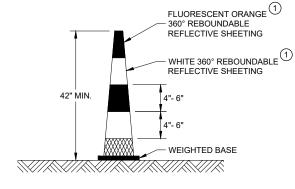
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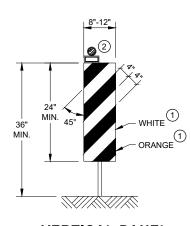
GENERAL NOTES

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

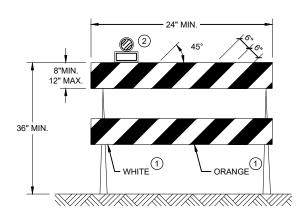




42" CONE DO NOT USE IN TAPERS ½ SPACING OF DRUMS

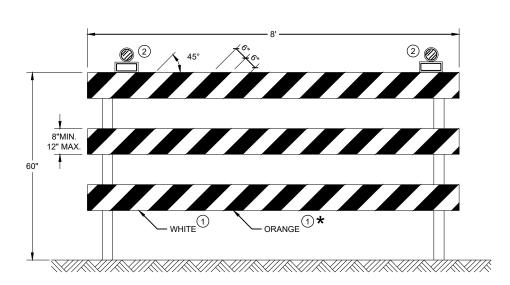


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



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

ROAD

WORK

GENERAL NOTES FLAGGING LEGEND FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON SIGN ON PORTABLE OR PERMANENT SUPPORT UNIFORM TRAFFIC CONTROL DEVICES. PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. 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. (2) 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 FLAGGER, EQUIPPED WITH STOP/SLOW ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT PADDLE FASTENED ON SUPPORT STAFF THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM 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 SPACING "A" SPEED LIMIT 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 350' STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS 1 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**

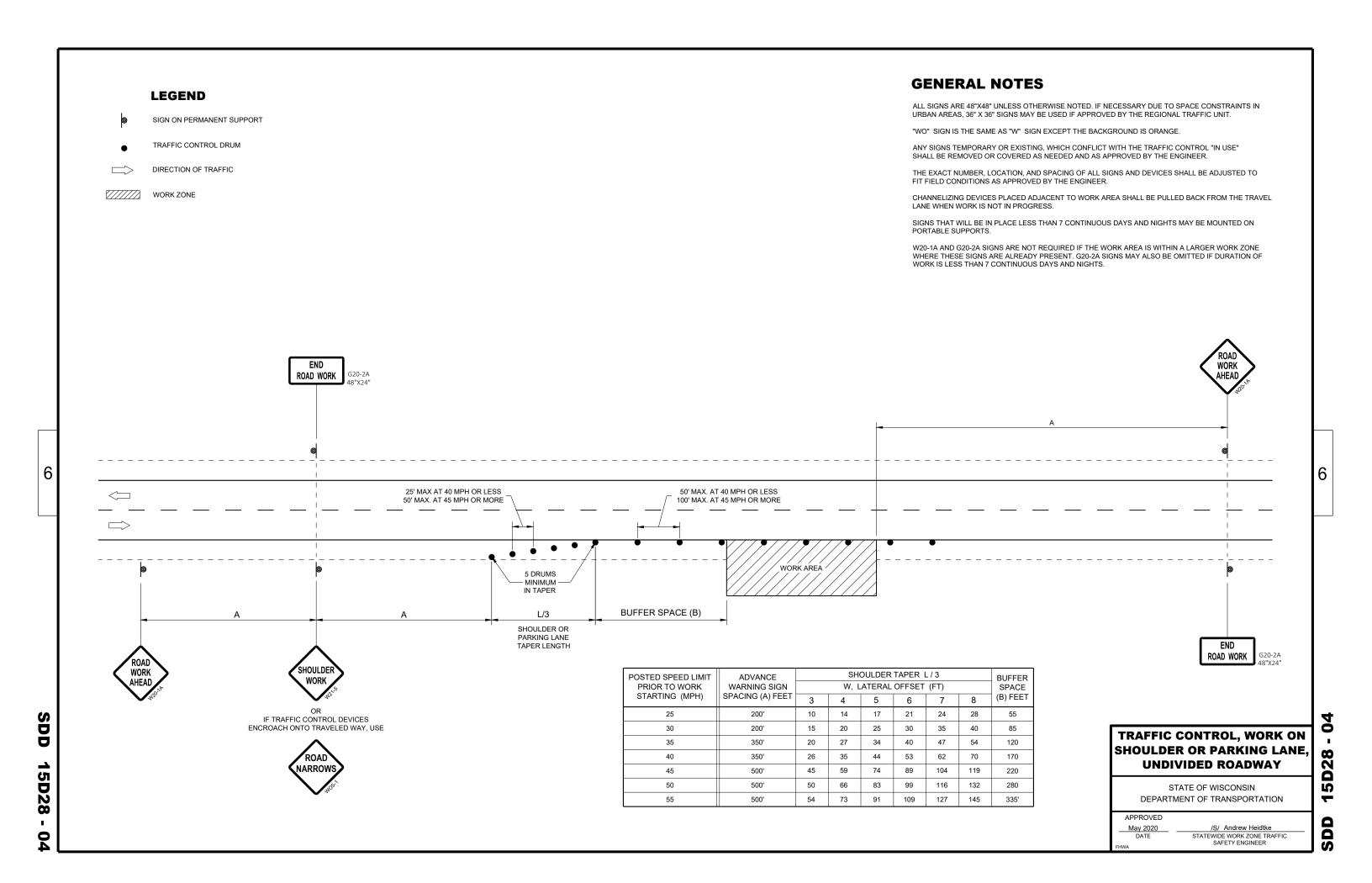
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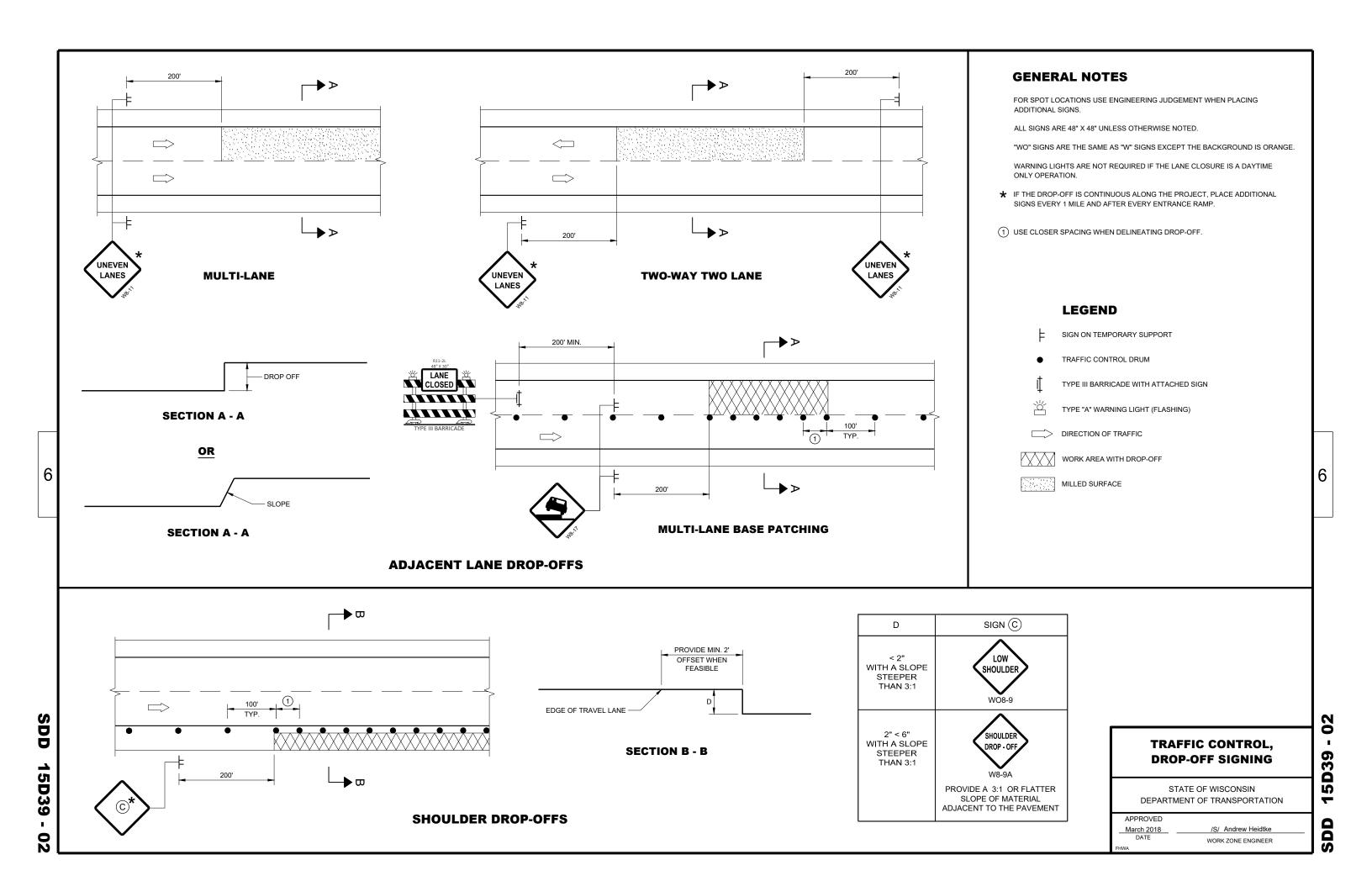
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke
WORK ZONE ENGINEER

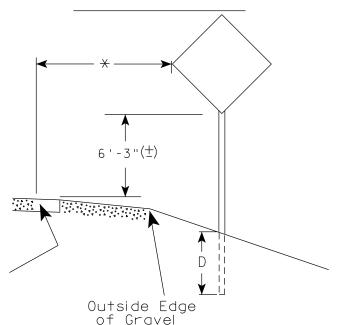




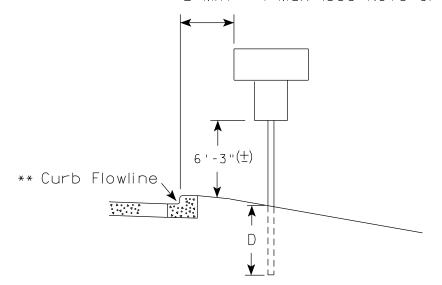
2' Min - 4' Max (See Note 6)

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

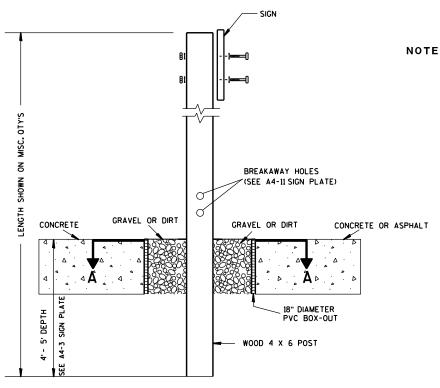
measured from the flow line.

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

PLOT BY : mscj9h

PLOT NAME :

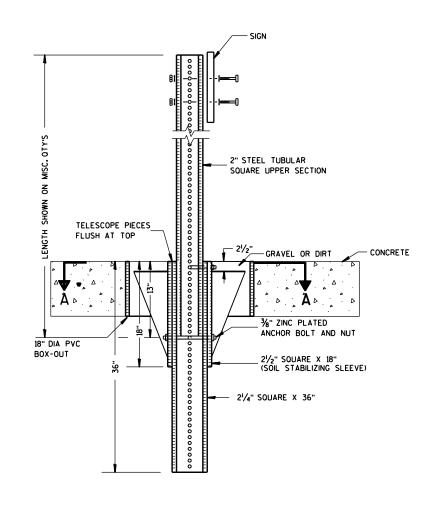
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



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.



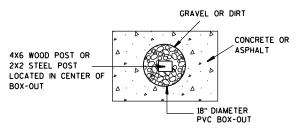
ELEVATION VIEW

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

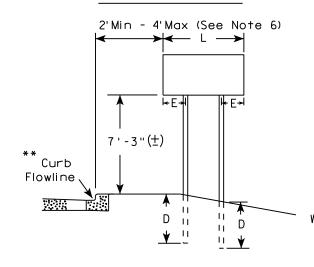
For State Traffic Engineer

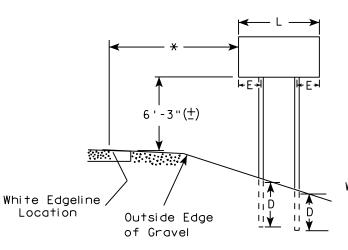
DATE 8/21/17 PLATE NO. 44-4.15

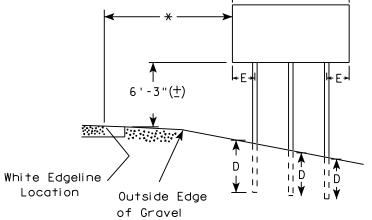
SHEET NO:

URBAN AREA

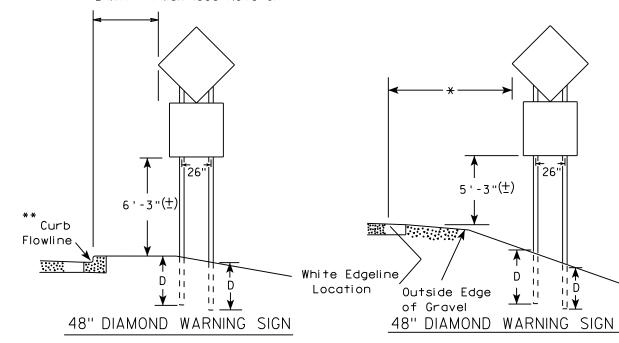
RURAL AREA (See Note 3)







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

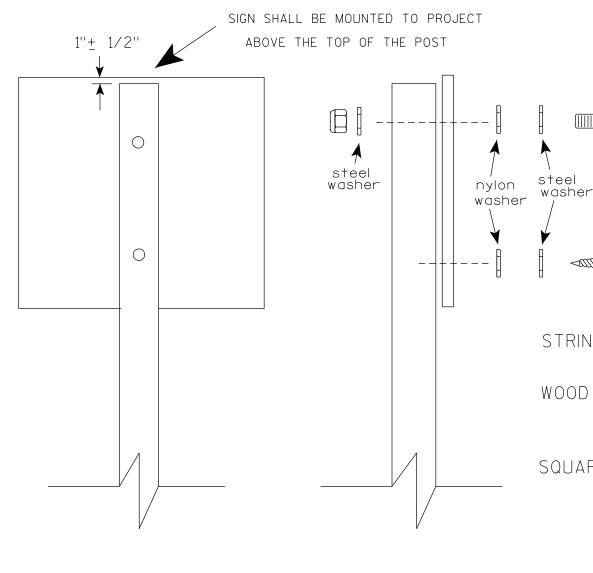
PROJECT NO:

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

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

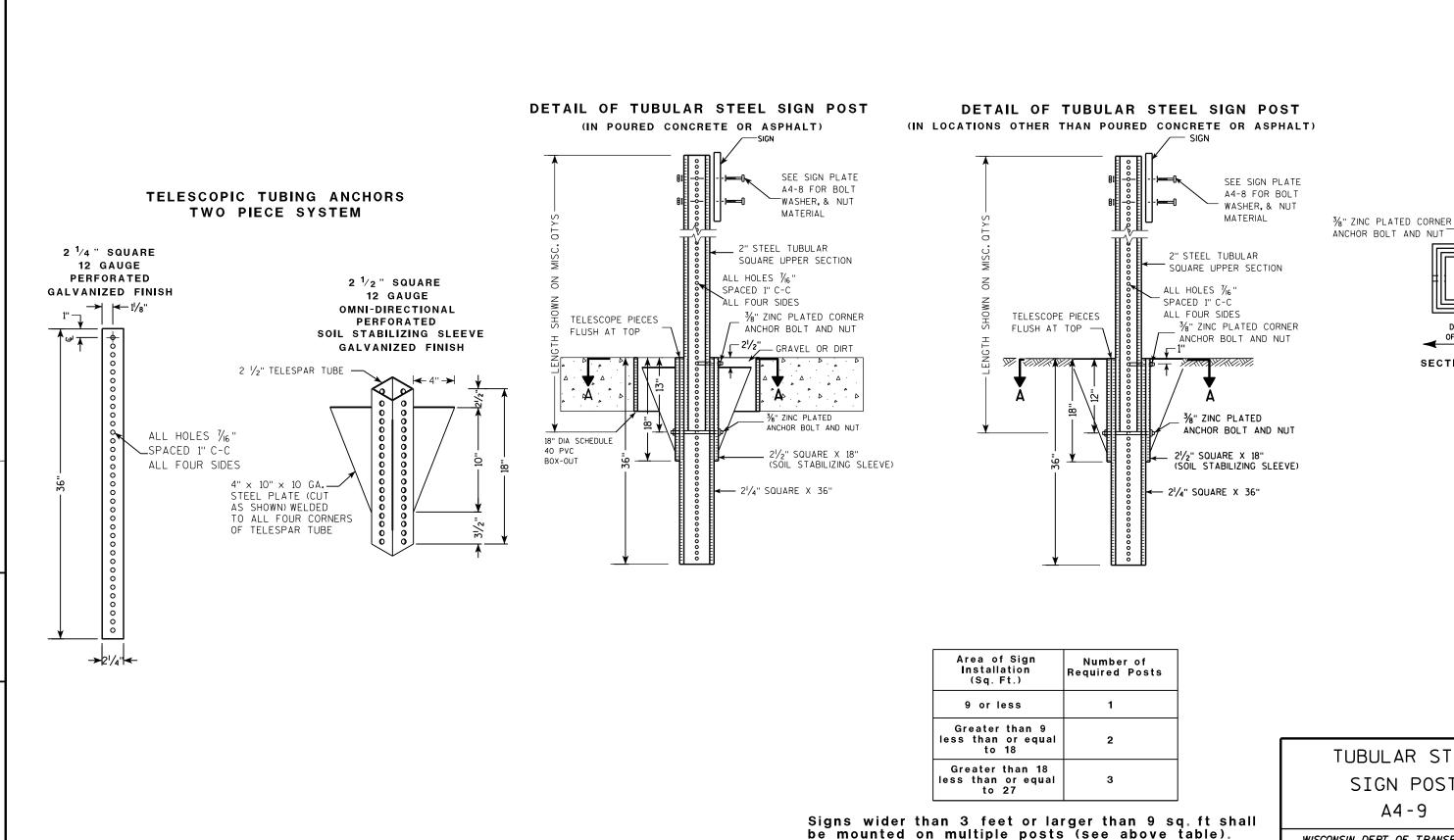
PLATE NO. <u>A4-8.9</u>

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

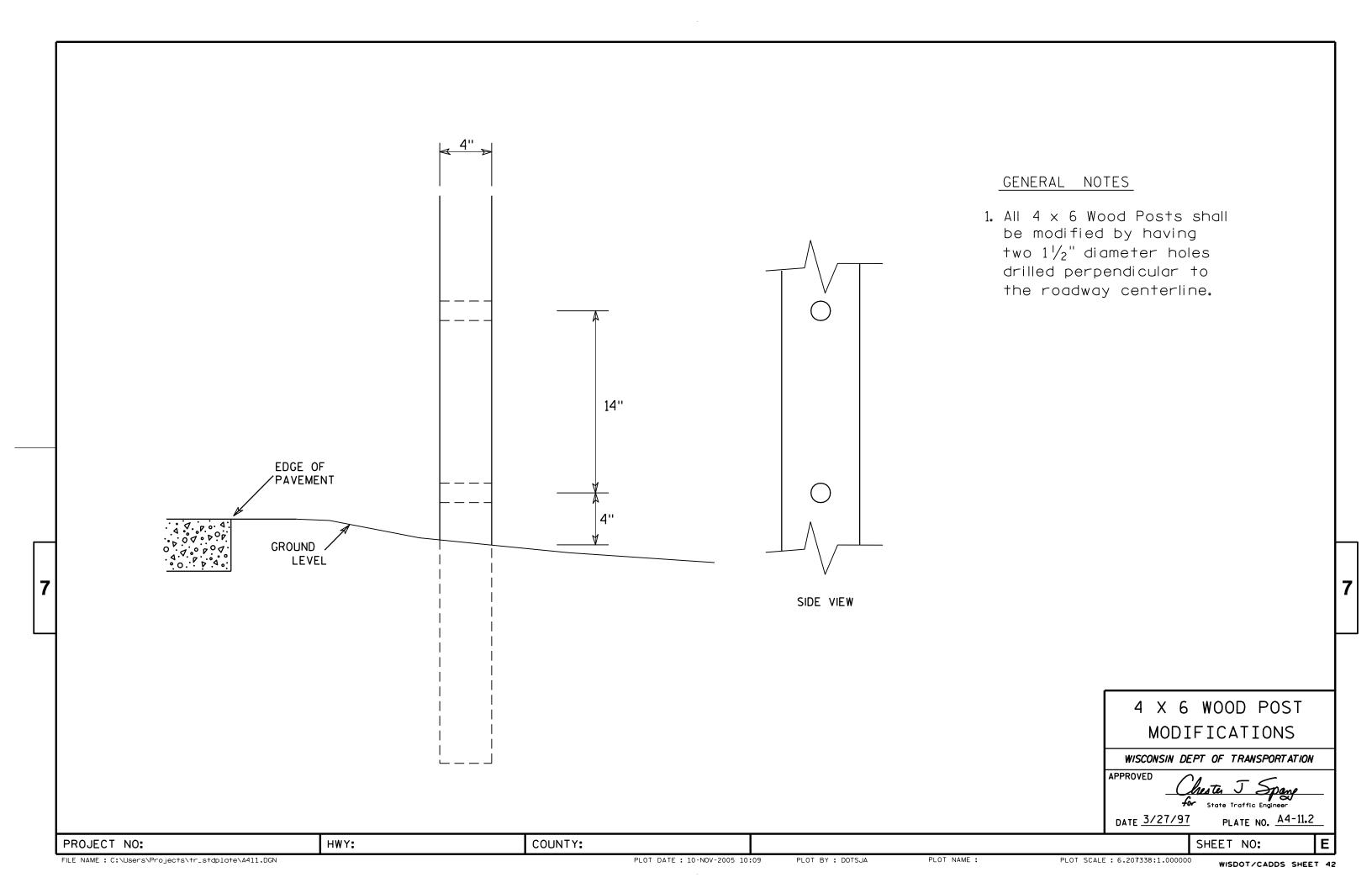
COUNTY:

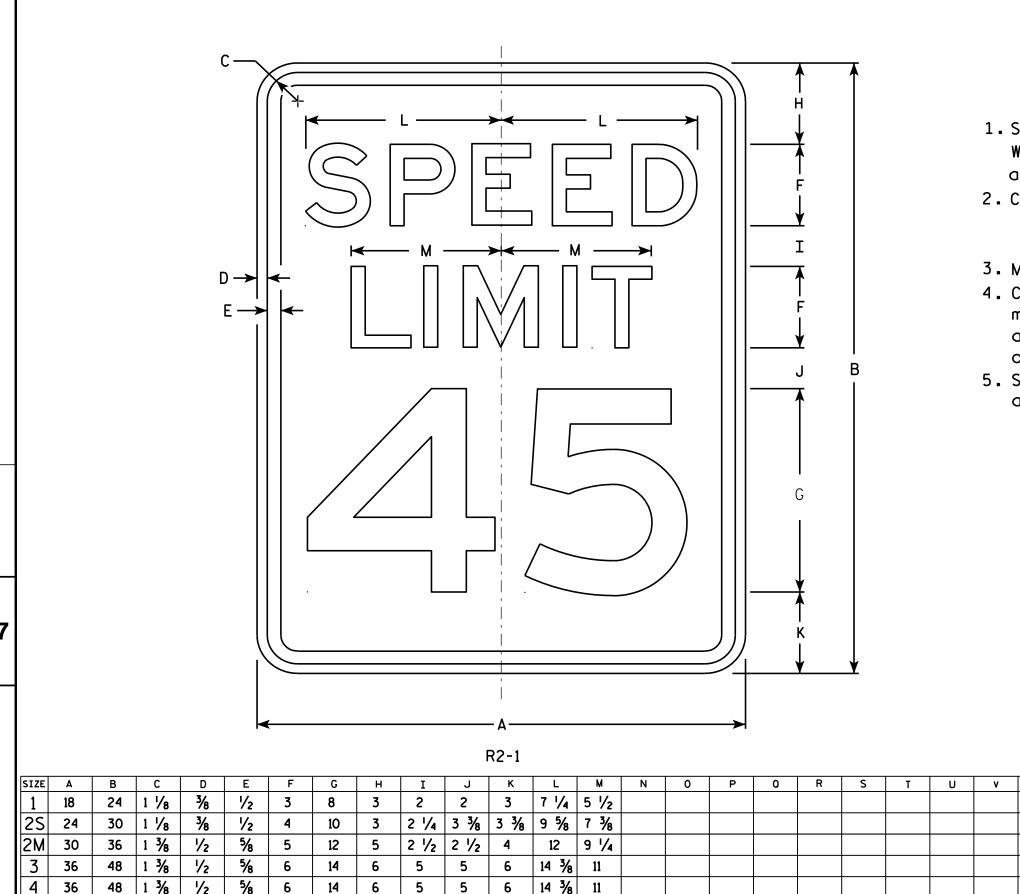
PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

SECTION A-A





4 1/2 6 3/4 6 3/4 19 1/4 14 5/8

COUNTY:

20

HWY:

6

NOTES

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

Background - White Message - Black

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

STANDARD SIGN R2-1 WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Raus For State Traffic Engineer DATE <u>5/26/1</u>0 PLATE NO. R2-1.13

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN

2 1/4

5

48

PROJECT NO:

60

PLOT DATE: 28-MAY-2010 08:32

PLOT BY : ditjph

PLOT NAME :

3.0

5.0

7.5

12.0

12.0

20.0

PLOT SCALE: 4.717577:1.000000

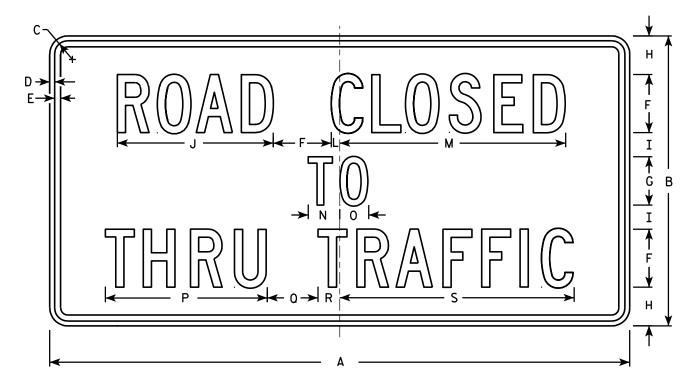
WISDOT/CADDS SHEET 42

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



R11-4

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Areg sq. ft.
1																											
25	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 ¾	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7 ⁄8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

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

SHEET NO:

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

PROJECT NO:

HWY:

PLOT DATE: 01-APR-2011 14:11

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 9.931739:1.000000

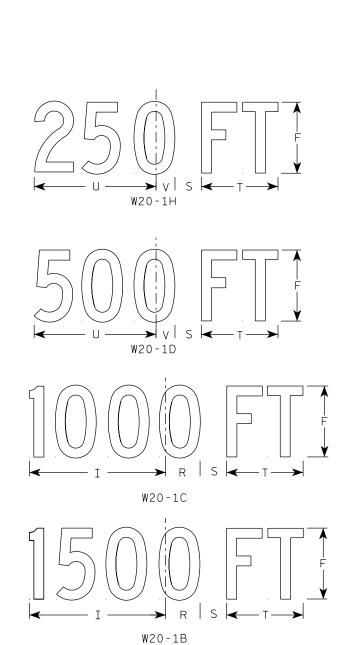
WISDOT/CADDS SHEET 42

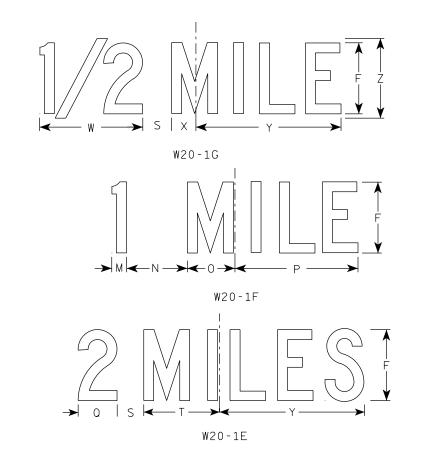
NOTES

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

Background – Orange Message – Black

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





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 1/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 %	9	1 3/8	8	1 3/4	10 3/4	6	9.0
25	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 %	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 %	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

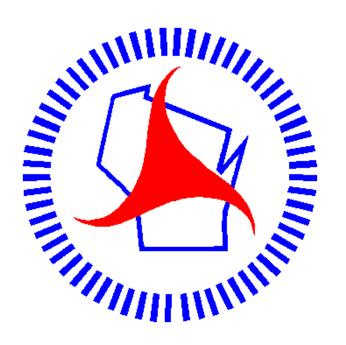
APPROVED Matthew R Rauch

For State Traffic Engineer
DATE 3/25/2020 PLATE NO. W20-1.11

SHEET NO:

PROJECT NO:

W20-1A



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov