

## RUNOFF COEFFICIENT TABLE

#### **GENERAL NOTES**

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE APPROXIMATE USGS DATUM.

WHEN THE QUANTITY OF BASE AGGREGATE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

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

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

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH SALVAGED TOPSOILED, FERTILIZED, SEEDED AND MULCHED

ALL CURB AND GUTTER RADII, PAVEMENT DIMENSIONS AND STATIONS ARE SHOWN TO THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS AND PAVEMENTS AT REMOVAL LIMITS.

ASPHALTIC PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYER THICKNESS:

PAVEMENT			
THICKNESS	LOWER	LOWER	UPPER
(INCH)	(INCH)	(INCH)	(INCH)
6.75	2.00	2.75	2.00

USH 53 INSIDE MEDIAN (3') SHOULDERS MAY BE PAVED WITH MAINLINE LANES, WITH APPROVAL FROM THE ENGINEER AND SHALL BE SUBJECT TO ONLY STANDARD COMPACTION.

ASPHALTIC SURFACE - MINIMUM OF A 4 LT 58-34 S MIX TO BE USED.

BEARINGS SHOWN ON THE PLAN ARE REFERENCED TO THE EXISTING ROADWAY CENTERLINE AND ARE ASSUMED.

EXISTING PIPE CULVERT SIZES SHOWN ARE APPROXIMATE AND THE CONTRACTOR SHALL BASE ITS BID ON ACTUAL FIELD CONDITIONS.

STATIONING, DISTANCES AND OFFSETS FOR PROPOSED SIGNS SHOWN ON THE PLAN ARE APPROXIMATE, ACTUAL LOCATIONS OF SIGNS ARE TO BE COORDINATED IN THE FIELD WITH THE ENGINEER.

ALL STORM SEWER INVERTS. ELEVATIONS. PIPE LENGTHS AND GRADES ARE COMPUTED TO CENTER TO CENTER OF STRUCTURES.

THE RIM ELEVATIONS SHOWN ON PLAN SHEETS ARE TO THE GUTTER EDGELINE.

SUMMARY OF DETAIL SHEETS

**GENERAL NOTES** PROJECT OVERVIEWS TYPICAL SECTIONS CONSTRUCTION DETAILS INTERSECTION DETAILS EROSION CONTROL PERMANENT SIGNING LIGHTING PAVEMENT MARKING TRAFFIC CONTROL ALIGNMENT

						HYDROLOGIC SC	OIL GROUP					
			А		В			С			D	
	SLOPE	RANGE	(PERCENT)	SL	OPE RANG	GE (PERCENT)	SLC	PE RANG	GE (PERCENT)	SLOP	E RANGE	(PERCENT)
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:	•	•			•			•				
ASPHALT						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS						.7585						
ROOFS						.7595						
GRAVEL ROADS, SHO	ULDERS					.4060	·			·		

TOTAL PROJECT AREA = 21.4 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 5.9 ACRES

ASTREA f/k/a (PACKERLAND BROADBAND) 105 KENT ST P.O. BOX 190 IRON MOUNTAIN, MI 49801 ATTN: RUSSEL KENNY PHONE:906.282.6434 EMAIL: RUSSEL.KENNY@ASTREACONNECT.COM

CENTURYLINK 135 N 21ST STREET SUPERIOR, WI 54880 ATTN: RUSSFI VANCE PHONE:715.919.8003

EMAIL: RUSSEL.VANCE@CENTURYLINK.COM

CHARTER COMMUNICATIONS - ELEC 2304 S MAIN STREET RICE LAKE, WI 54868 ATTN: JAMEY OLDEEN PHONE: 715.719.0561 EMAIL: JAMEY.OLDEEN@CHARTER.COM

Dial 811 or (800)242-8511

www.DiggersHotline.com

UTILITY CONTACTS

DAHLBERG LIGHT AND POWER - ELEC 9221 E MAIN P.O. BOX 300 SOLON SPRINGS, WI 54873-0300 ATTN: JAMES DAHLBERG PHONE: 715.378.2205 EMAIL: JIMDAHLBERG@DAHLBERGLIGHTANDPOWER.COM

123 5TH AVENUE PO BOX 8 MINONG WI 54859-0008 ATTN: BILL HALLOCK PHONE: 715.520.0365 EMAIL: WHALLOCK.PUBLICWORKS@GMAIL.COM

VILLAGE OF MINONG - SAN SEWER/WATER

WE ENERGIES - GAS 104 W. SOUTH ST RICE LAKE, WI 54868 ATTN: STEVEN CHAVERS PHONE: 715.234.9605

EMAIL: STEVEN.CHAVERS@WE-ENERGIES.COM

**DNR LIAISON** STATE OF WISCONSIN

NORTHWEST DISTRICT HWY 70 WEST SPOONER, WI 54801 PHONE 715.635.4228 ATTN: SHAWN HASELEU EMAIL: SHAWN.HASELEU@WISCONSIN.GOV

> TOWN CHAIRMAN N13124 GREENWOOD RD

MINONG, WI 54859 ATTN: HAROLD SMITH PHONE: 715.416.3469

VILLAGE OF MINONG

EMAIL: TOWNOFMINONG@CENTURYTEL.COM

VILLAGE CHAIRMAN 123 5th AVENUE MINONG, WI 54859 ATTN: LARRY LEE PHONE: 715.520.7244 EMAIL: larrylee.vom@gmail.com WASHBURN COUNTY HIGHWAY OPERATIONS MANAGER 1600 COUNTY HIGHWAY H

EMAIL: highway@co.washburn.wi.us

**DESIGN CONTACT** 

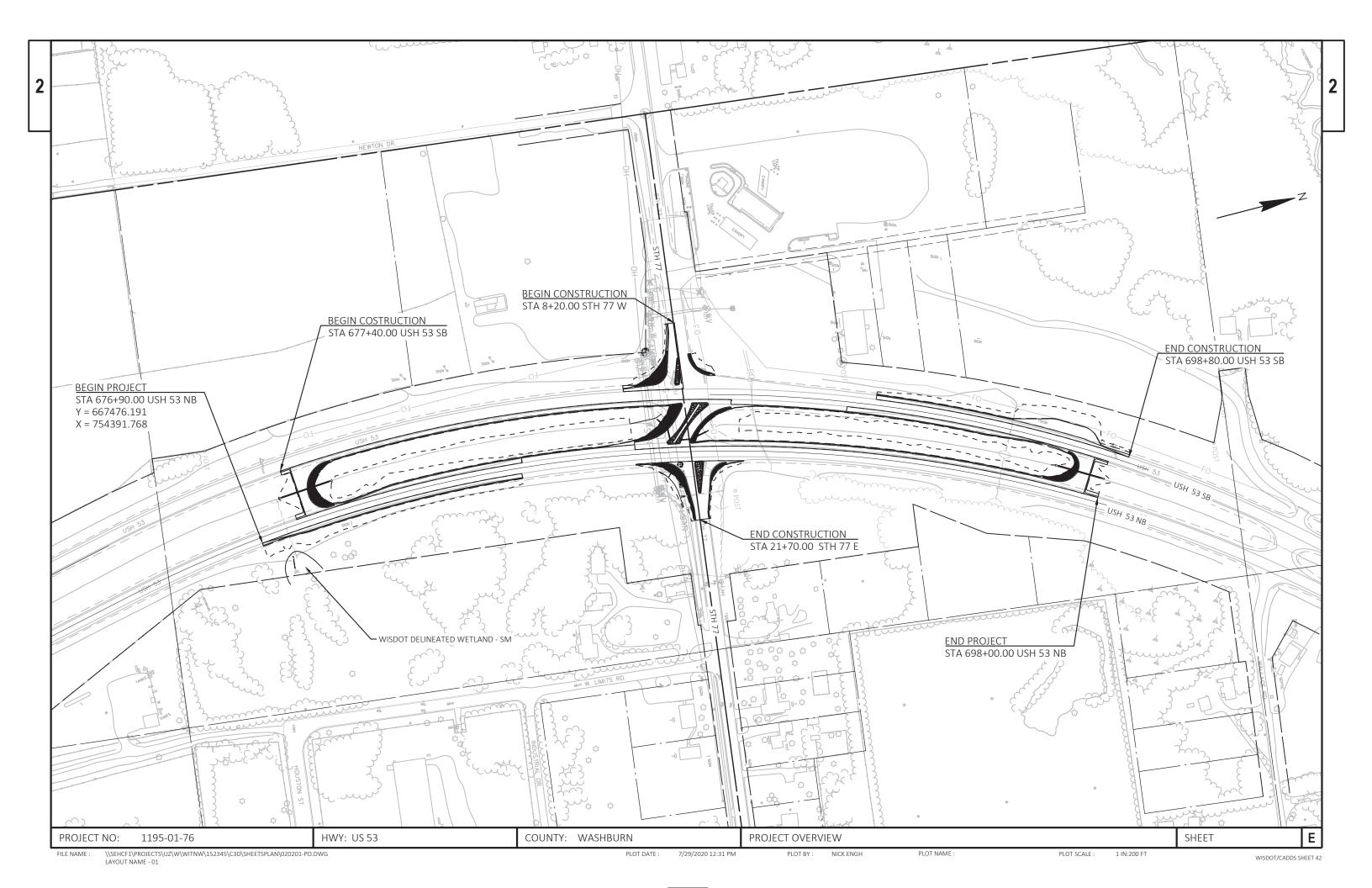
SEH INC. 10 NORTH BRIDGE STREET CHIPPEWA FALLS WI 54729 PHONE: 715.720.6261 ATTN: JARROD STARREN EMAIL: JSTARREN@SEHINC.COM

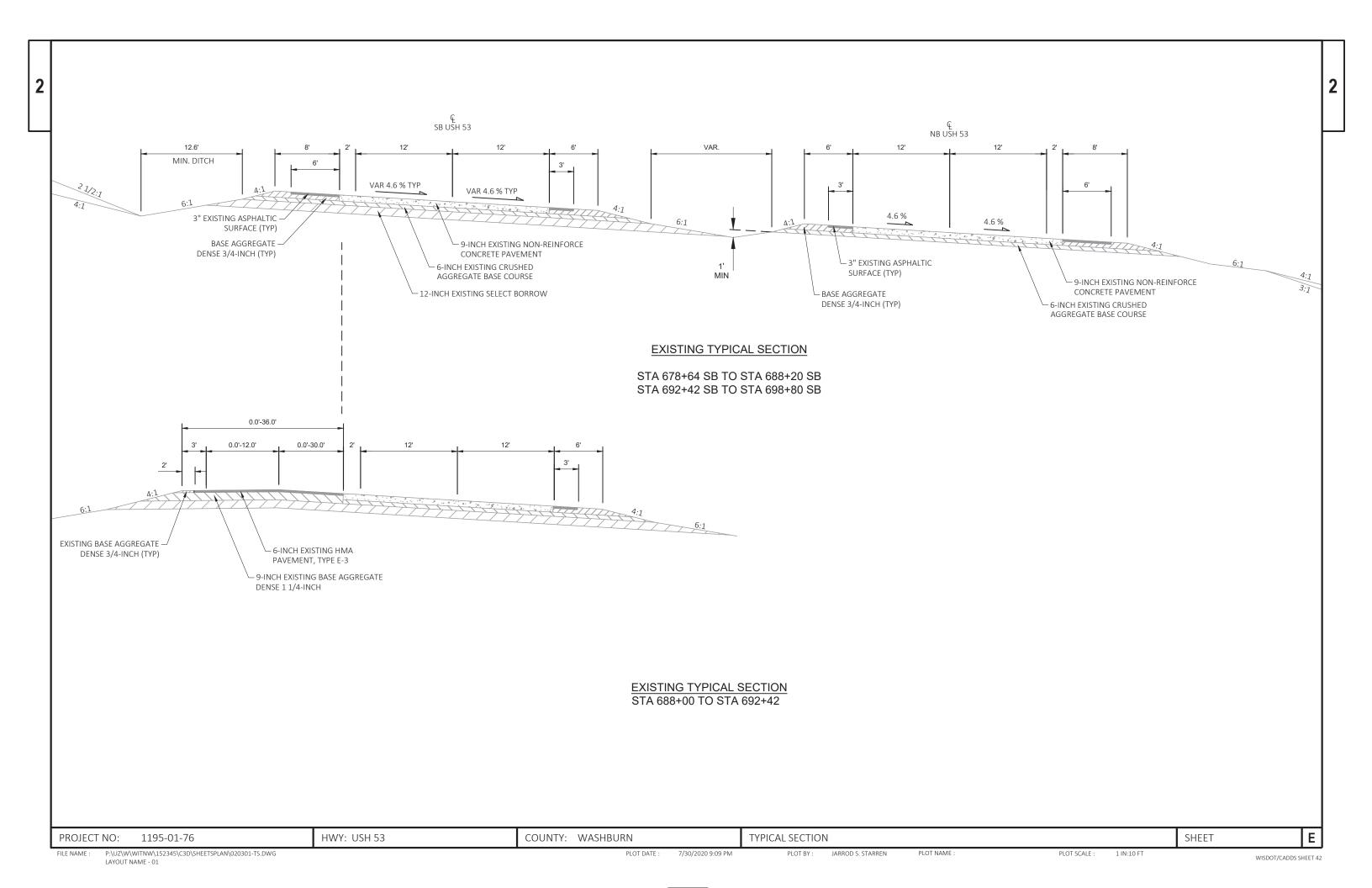
WISCONSIN DEPARTMENT OF TRANSPORTATION 1701 NORTH 4TH STREET SUPERIOR, WI 54880 ATTN: TRAVIS JENSEN PHONE: 715.395.3025 EMAIL: TRAVIS.JENSEN@DOT.WI.GOV

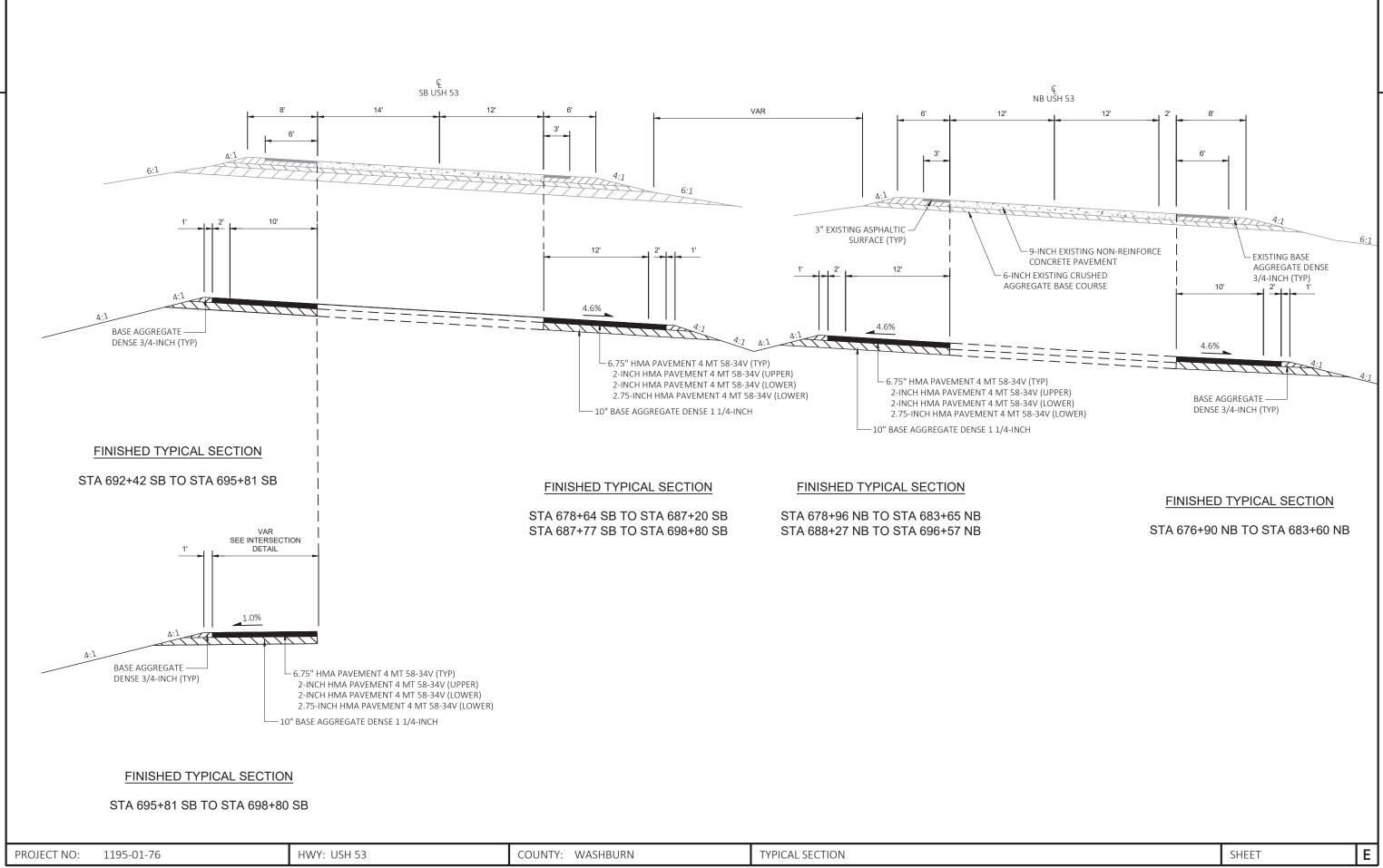
SPOONER WI 54801 ATTN: ADAM GRONNING PHONE: 715.635.4480

PROJECT NO: 1195-01-76 HWY: USH 53 COUNTY: WASHBURN **GENERAL NOTES SHEET** P:\UZ\W\WITNW\152345\C3D\SHEETSPLAN\020101-GN.DWG 11/11/2020 3:00 PM JARROD S. STARREN PLOT NAME PLOT SCALE : 1 IN:100 FT FILE NAME :

WISDOT/CADDS SHEET 42

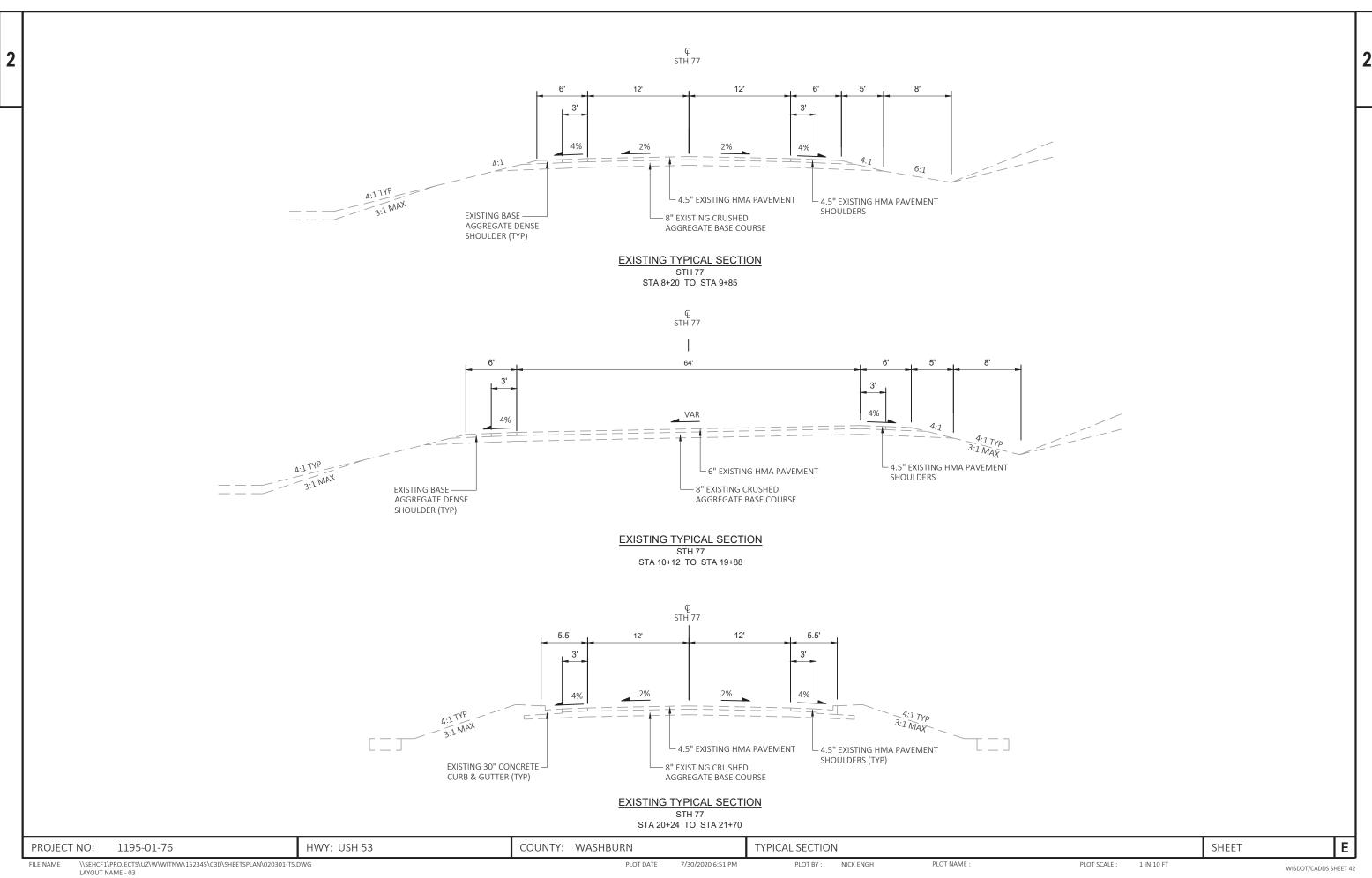


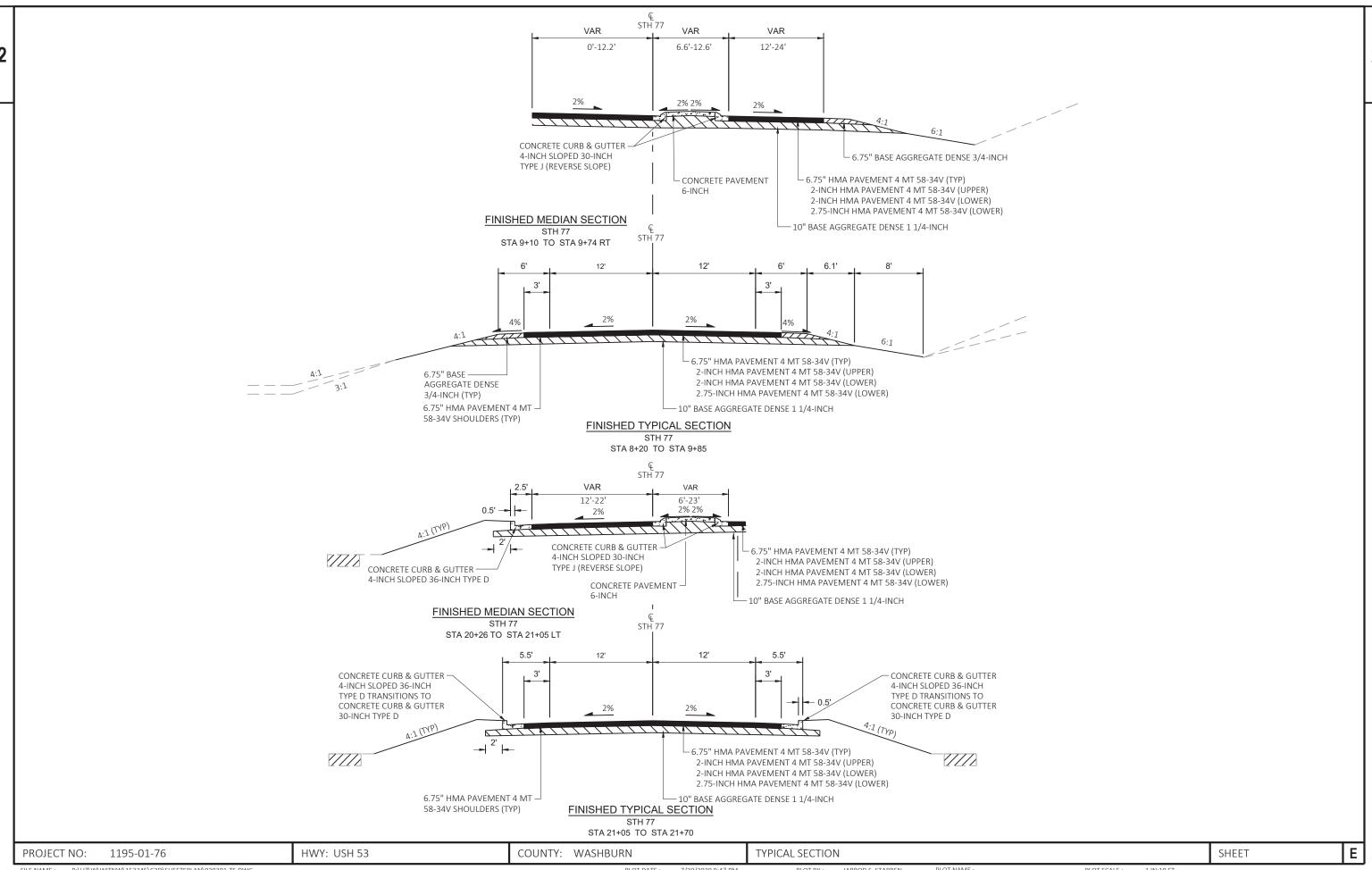


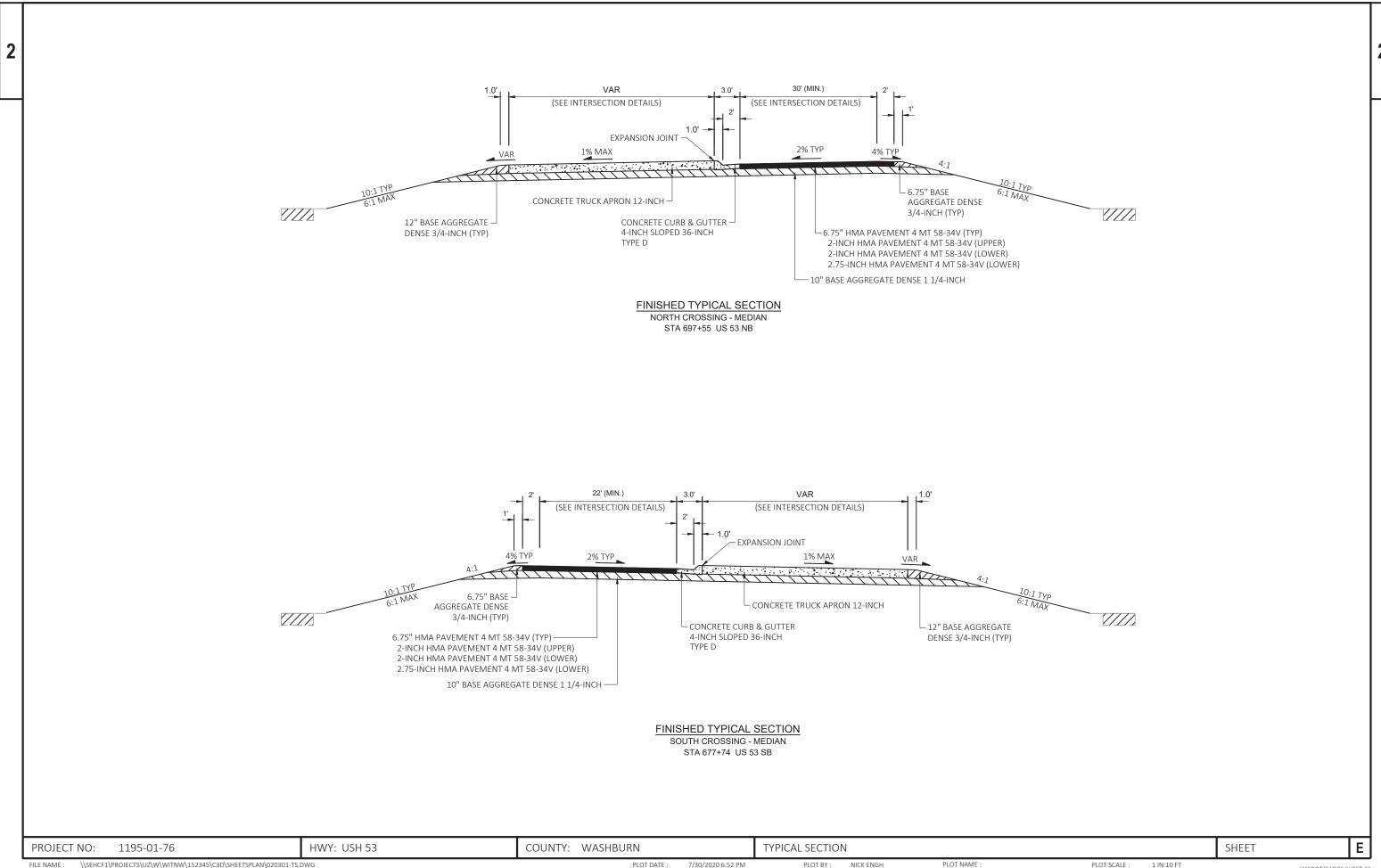


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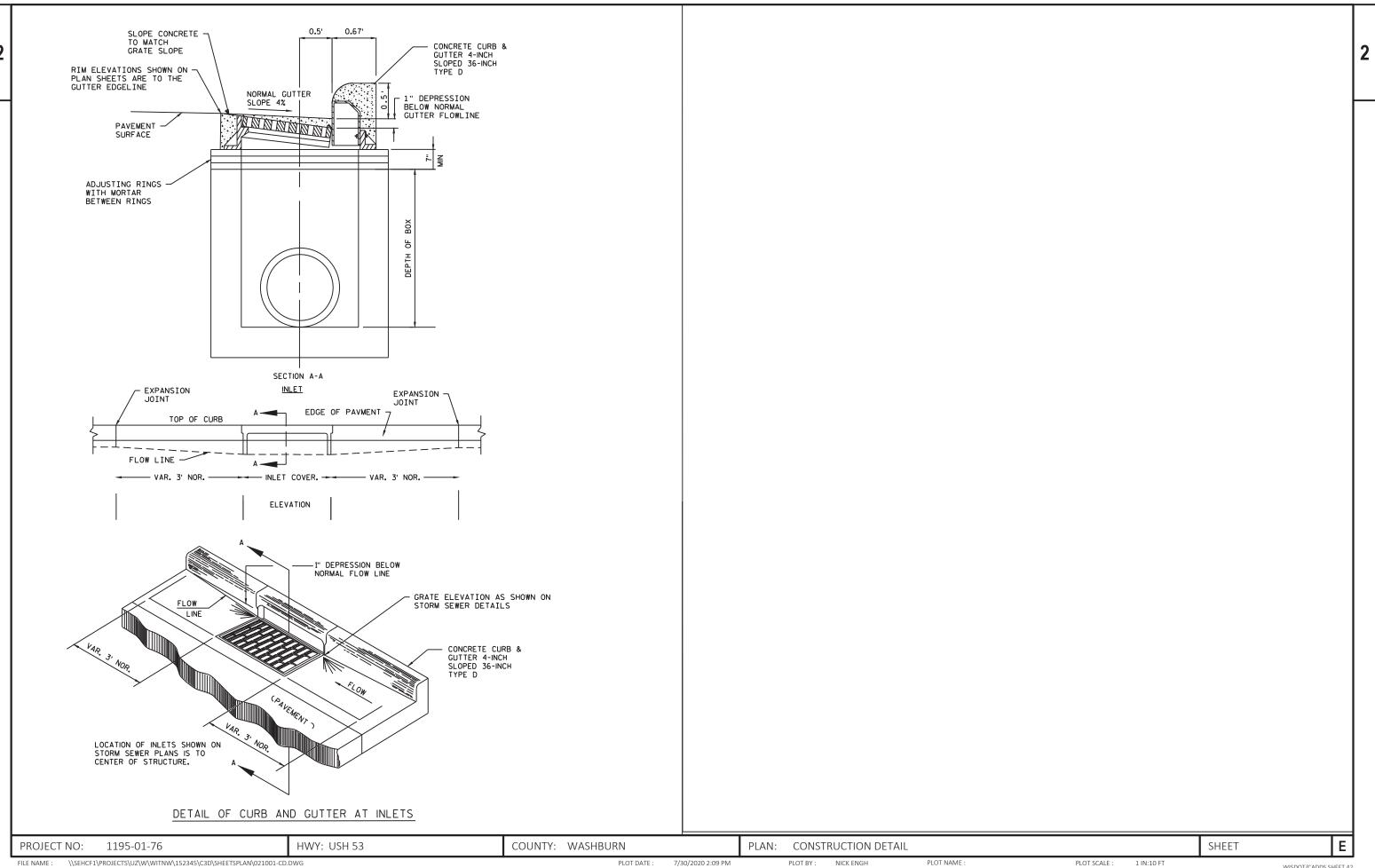
LAYOUT NAME - 02



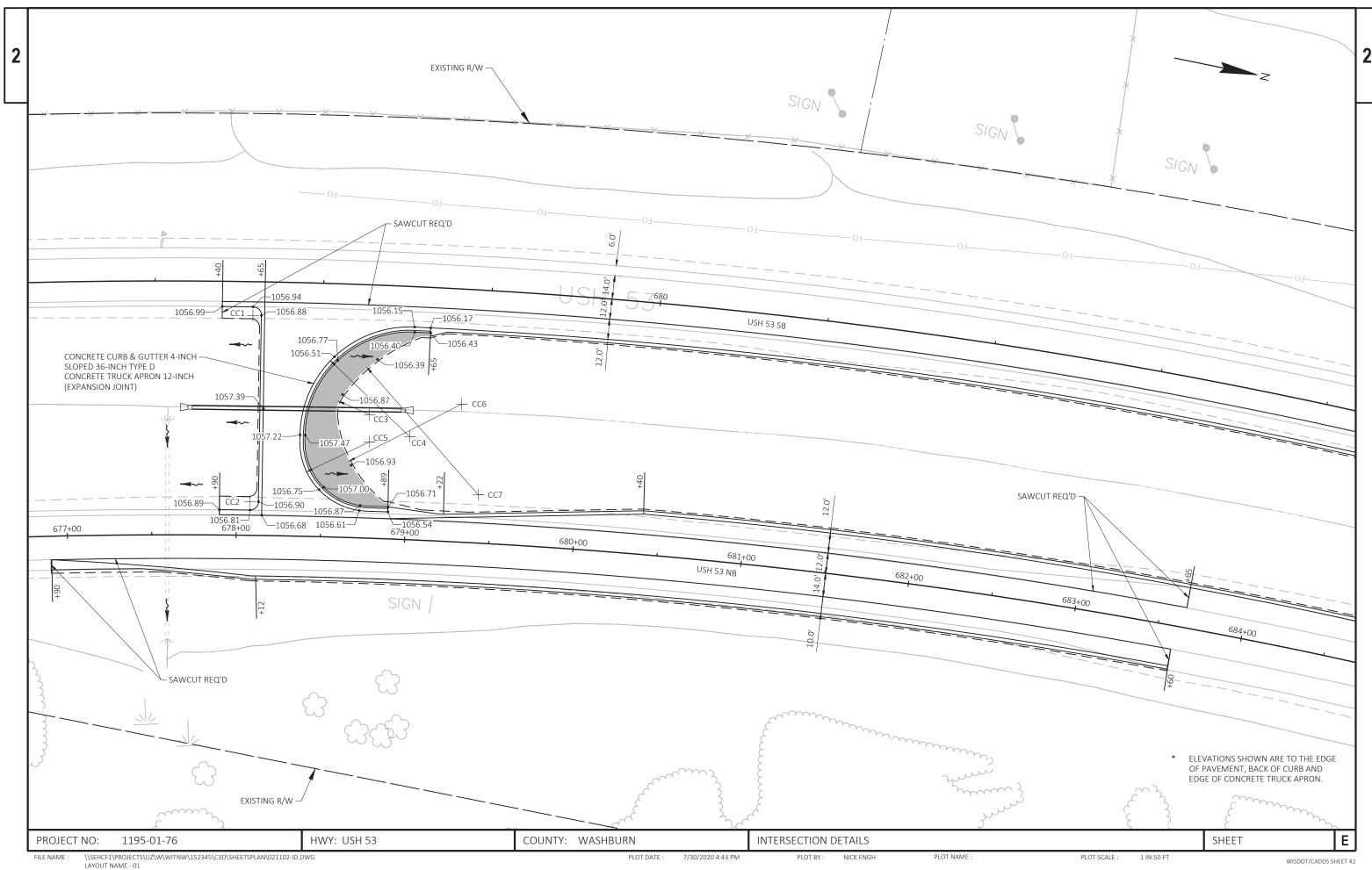


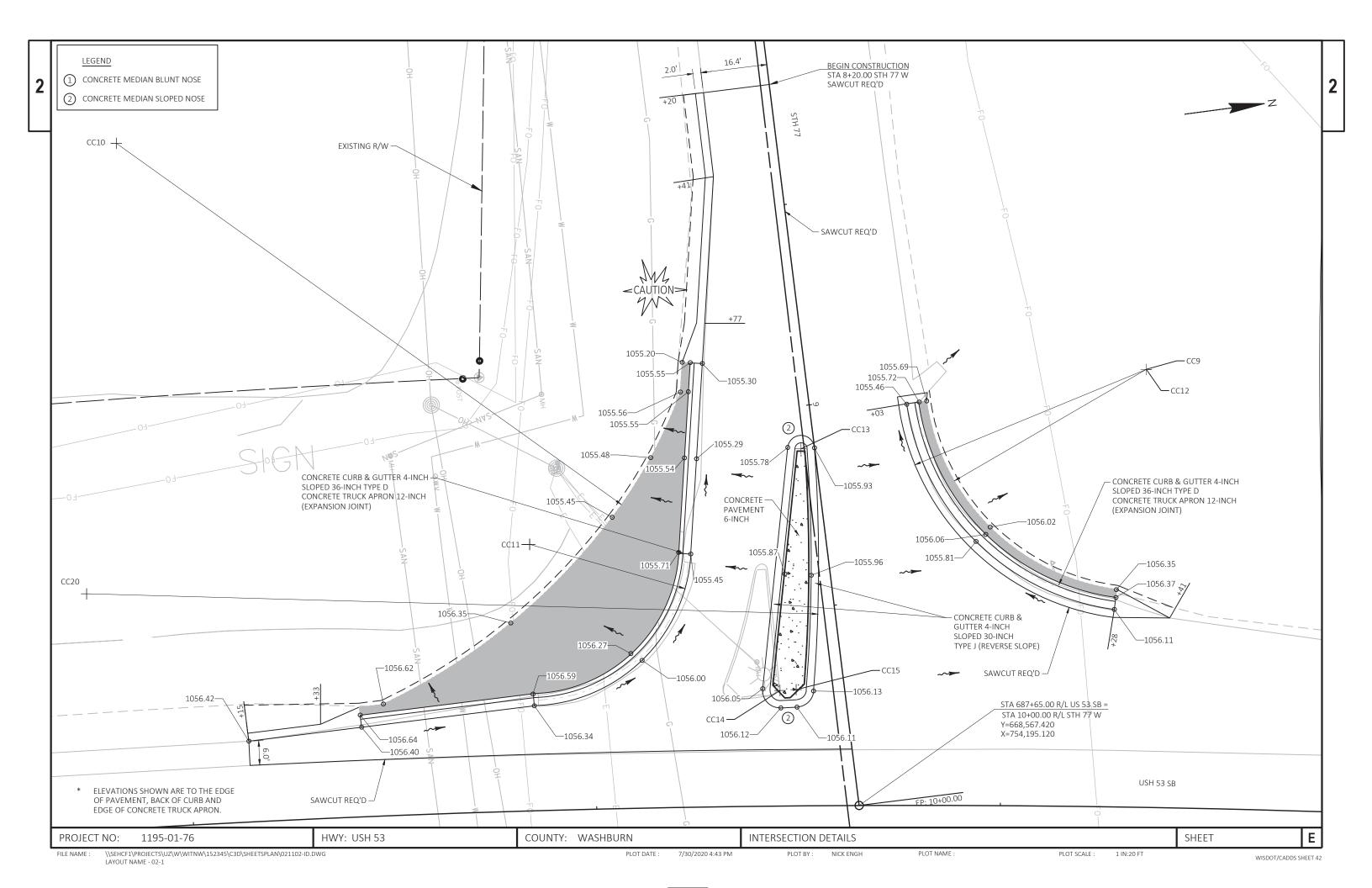


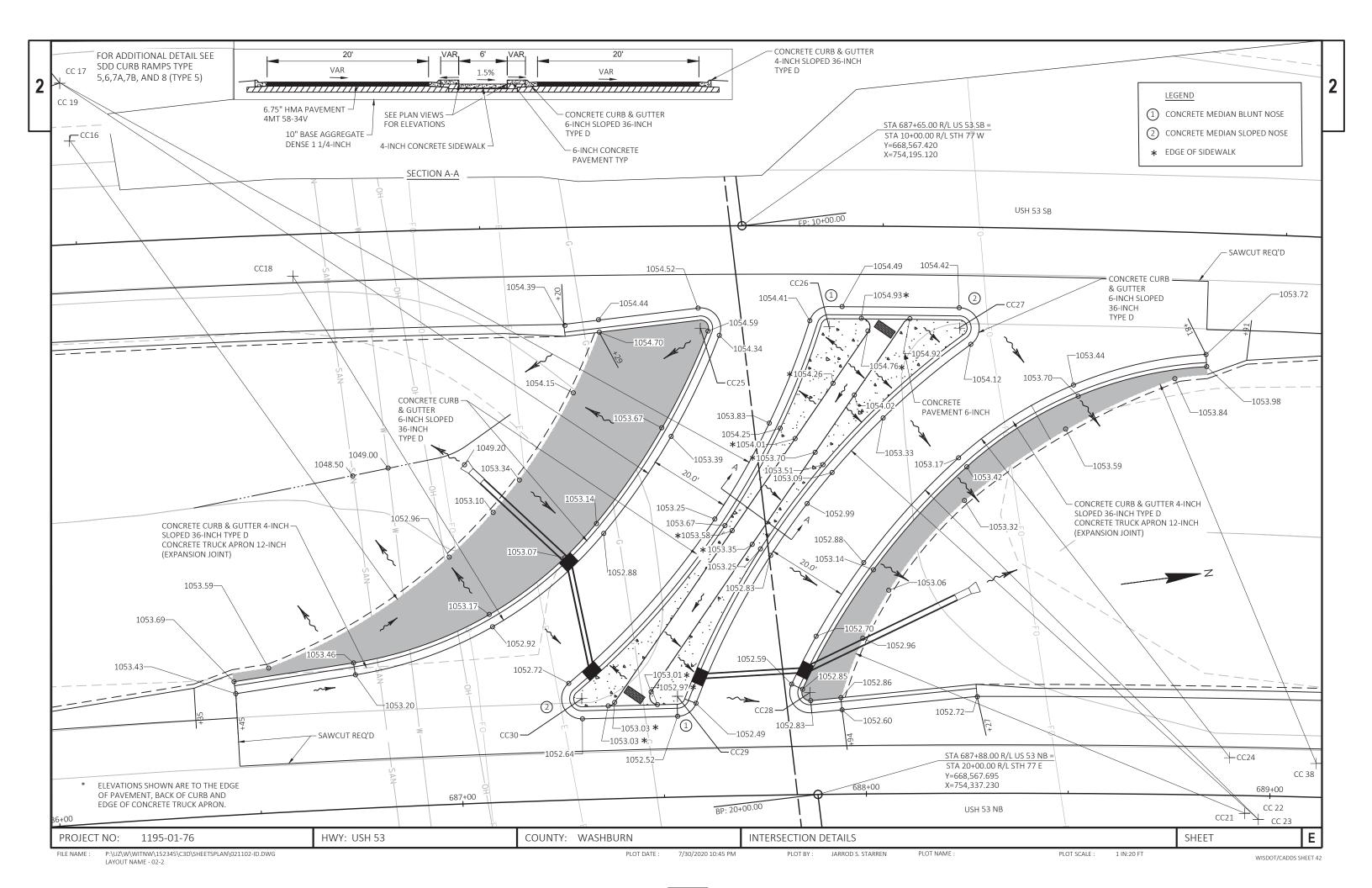
JOINT TRANSITION DETAIL CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D TO CONCRETE CURB & GUTTER 30-INCH TYPE D (TO BE MEASURED & PAID FOR AS 36" CONC. C&G) ENDWALL VARIABLE FINISHED GRADE GEOTEXTILE FABRIC. TYPE "HR" REO'D. 18" MIN. THICKNESS FOR RIPRAP MEDIUM SECTION A-A BACKFILL WITH BORROW OR EXCAVATION COMMON . CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D BERM DETAIL BEHIND CURB & GUTTER RIPRAP MEDIUM TREATMENT AT CULVERTS PROJECT NO: HWY: USH 53 Ε 1196-00-63, 1198-00-77 COUNTY: WASHBURN CONSTRUCTION DETAILS SHEET \\SEHCF1\PROJECTS\UZ\\W\WITNW\\152345\C3D\\SHEETSPLAN\\021001-CD.DWG LAYOUT NAME - 01 PLOT DATE : PLOT BY: NICK ENGH PLOT NAME : PLOT SCALE : 1 IN:10 FT FILE NAME : 11/5/2020 10:35 AM WISDOT/CADDS SHEET 42

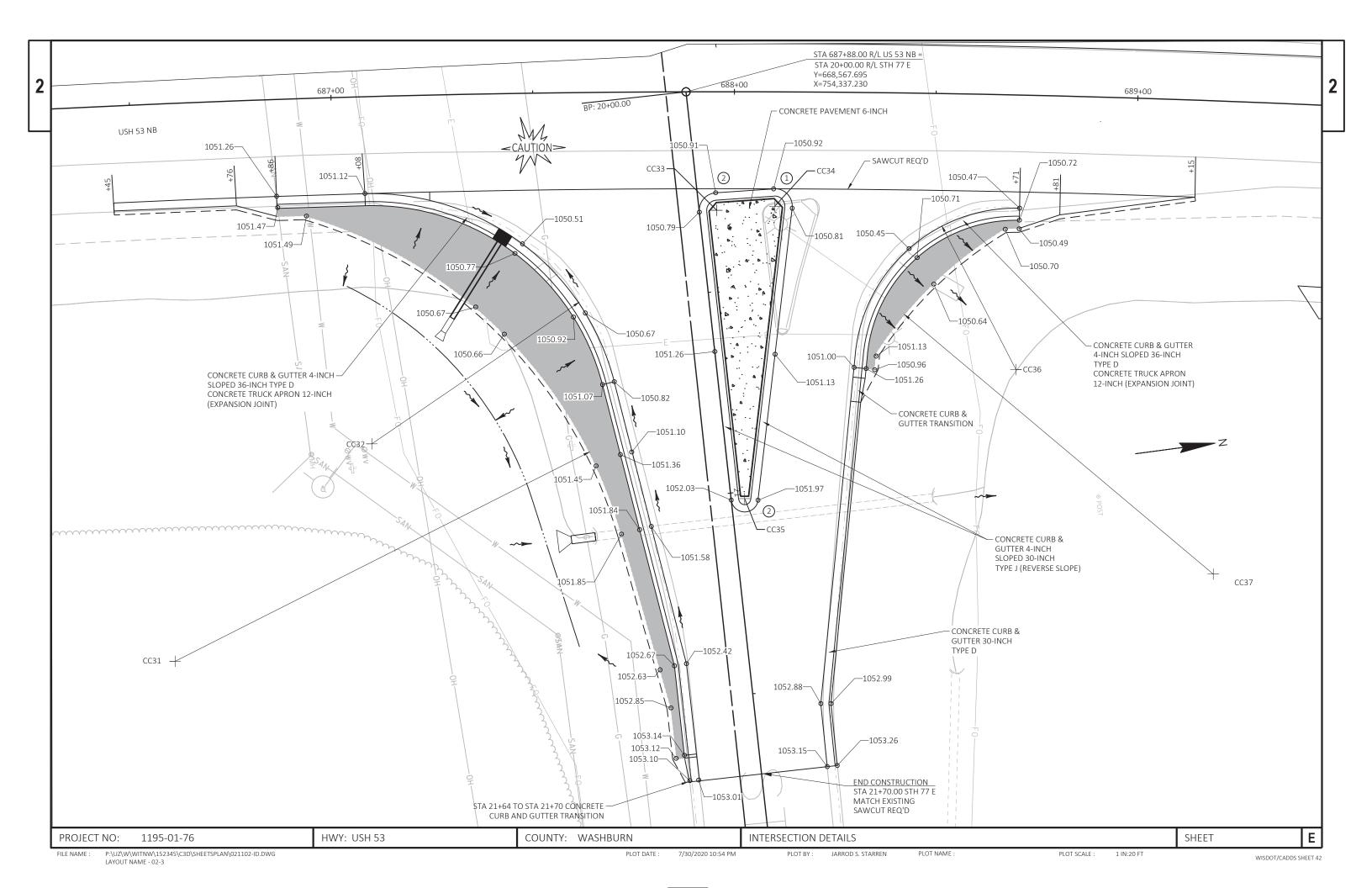


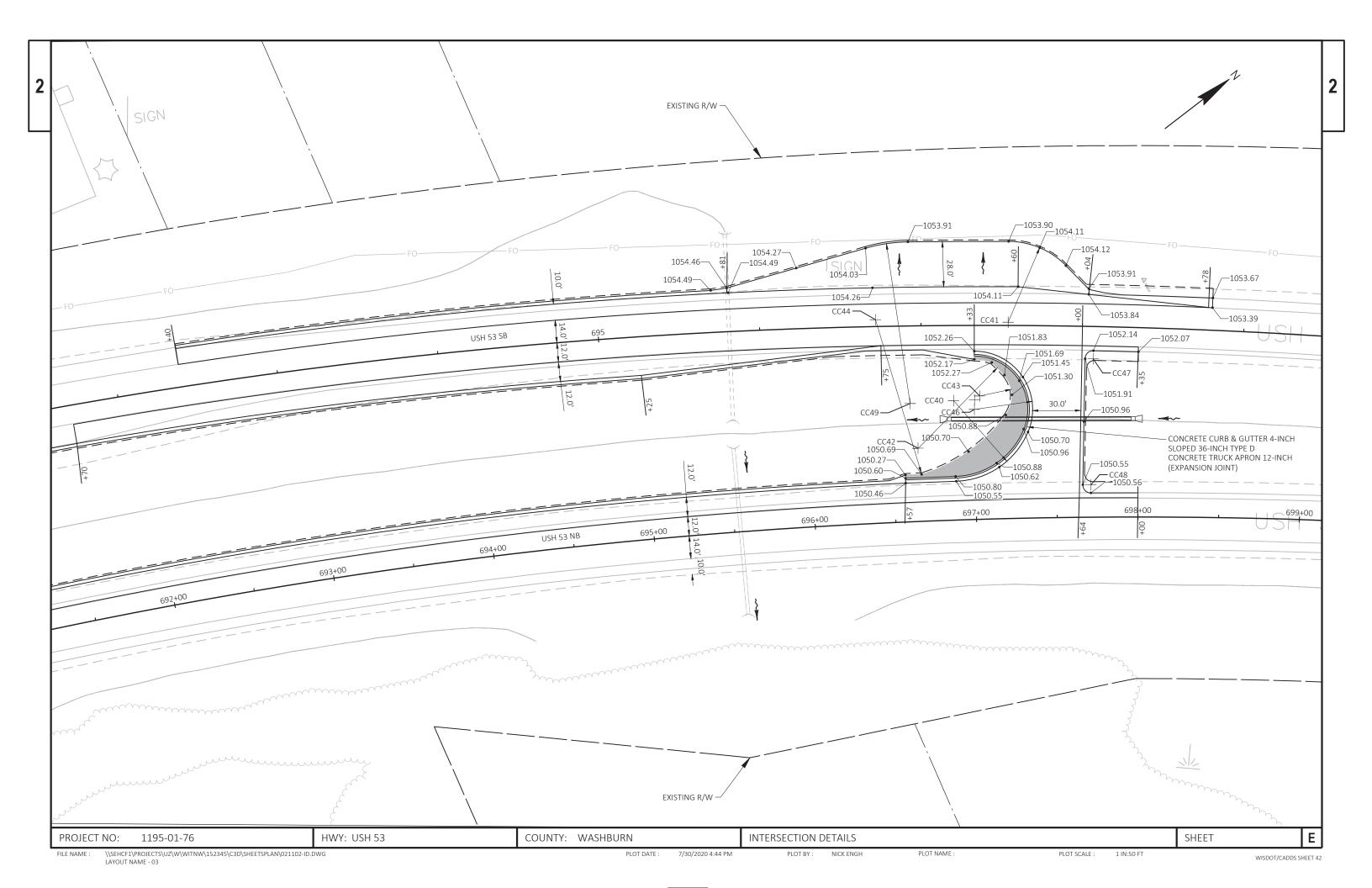
7/30/2020 2:09 PM WISDOT/CADDS SHEET 42











#### SOUTH END - R CUT

			STATION & OFFSI	ET TABLE				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS	
CC1	678+08.27 US 53 NB	-130.48 LT	677+58.30 US 53 SB	20.00 RT	667568.557	754239.992	5.0'	EOP
CC2	678+08.04 US 53 NB	-20.00 LT	677+58.37 US 53 SB	130.48 RT	667588.273	754348.695	5.0'	EOP
CC3	678+76.71 US 53 NB	-73.30 LT	678+30.12 US 53 SB	76.96 RT	667647.827	754284.320	19.0'	EOT
CC4	679+00.41 US 53 NB	-61.16 LT	678+54.99 US 53 SB	89.00 RT	667673.619	754292.527	65.0'	EOP
CC5	678+76.93 US 53 NB	-57.00 LT	678+30.40 US 53 SB	93.25 RT	667650.651	754300.375	41.0'	EOP
CC6	679+29.79 US 53 NB	-81.80 LT	678+85.65 US 53 SB	68.24 RT	667700.245	754267.667	74.0'	EOT
CC7	679+42.11 US 53 NB	-28.71 LT	678+98.80 US 53 SB	121.27 RT	667720.186	754318.439	99.0'	EOT

### MEDIAN - CENTER J-TURN

			STATION & OFFS	ET TABLE				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS	
CC16	686+13.60 US 53 NB	-169.17 LT	0+00.00 STH 77 E	0.00	668404.940	754152.539	139.0'	EOT
CC17	686+12.21 US 53 NB	-183.68 LT	685+97.98 US 53 SB	-40.08 LT	668404.407	754137.974	195.0'	EOP
CC19	686+12.21 US 53 NB	-183.68 LT	0+00.00 STH 77 E	0.00	668404.407	754137.974	175.0'	EOP
CC21	688+93.76 US 53 NB	4.40 RT	20+17.38 STH 77 E	-104.33 LT	668671.842	754355.695	103.0'	EOT
CC22	689+41.66 US 53 NB	44.99 RT	20+64.49 STH 77 E	-145.42 LT	668712.433	754403.234	175.0'	EOP
CC23	689+41.66 US 53 NB	44.99 RT	20+64.49 STH 77 E	-145.42 LT	668712.433	754403.234	195.0'	EOP
CC24	688+89.70 US 53 NB	-9.37 LT	688+90.38 US 53 SB	129.70 RT	668669.876	754341.477	100.0'	EOP
CC25	687+61.34 US 53 NB	-115.97 LT	687+54.56 US 53 SB	25.33 RT	668553.895	754218.927	5.0'	ВОС
CC26	687+92.14 US 53 NB	-115.79 LT	687+86.70 US 53 SB	25.00 RT	668585.553	754222.745	5.0'	ВОС
CC27	688+23.23 US 53 NB	-115.26 LT	688+19.13 US 53 SB	25.00 RT	668617.423	754227.243	5.0'	ВОС
CC28	687+86.34 US 53 NB	-25.22 LT	687+82.16 US 53 SB	115.65 RT	668568.998	754311.985	5.0'	ВОС
CC29	687+53.70 US 53 NB	-25.00 LT	687+48.06 US 53 SB	116.42 RT	668536.281	754308.522	5.0'	ВОС
CC30	687+30.23 US 53 NB	-25.00 LT	687+23.55 US 53 SB	116.79 RT	668512.768	754306.075	5.0'	ВОС

EOP - EDGE OF PAVEMENT BOC - BACK OF CURB EOT - EDGE OF TRUCK APRON

PROJECT NO: 1195-01-76

HWY: USH 53

COUNTY: WASHBURN

INTERSECTION DETAILS

SHEET

ВОС

400.0'

Ε

STATION & OFFSET TABLE POINT STATION OFFSET STATION OFFSET RADIUS COORDS COORDS CC9 688+39.88 US 53 NB -248.49 LT 0+00.00 STH 77 E 668652.266 754097.454 54.0' EOT 0.00 CC10 686+06.72 US 53 NB -313.54 LT 0+00.00 STH 77 E 668406.714 754007.998 119.0' EOP 0.00 CC11 686+96.21 US 53 NB -208.35 LT 0+00.00 STH 77 E 0.00 668495.064 754120.212 40.0' EOP CC12 688+39.88 US 53 NB -248.49 LT 0+00.00 STH 77 E 0.00 668652.266 754097.454 62.0' CC13 668564.859 687+59.95 US 53 NB -229.78 LT 0+00.00 STH 77 E 0.00 754105.637 1.5' BOC CC14 687+53.66 US 53 NB -170.06 LT 0+00.00 STH 77 E 0.00 668551.778 754164.289 2.5' ВОС CC15 -170.16 LT 0+00.00 STH 77 E 754164.625 2.5' BOC 687+57.46 US 53 NB 0.00 668555.757

0.00

668166.298

754082.557

STH 77 - WEST

#### STH 77 - EAST

0+00.00 STH 77 E

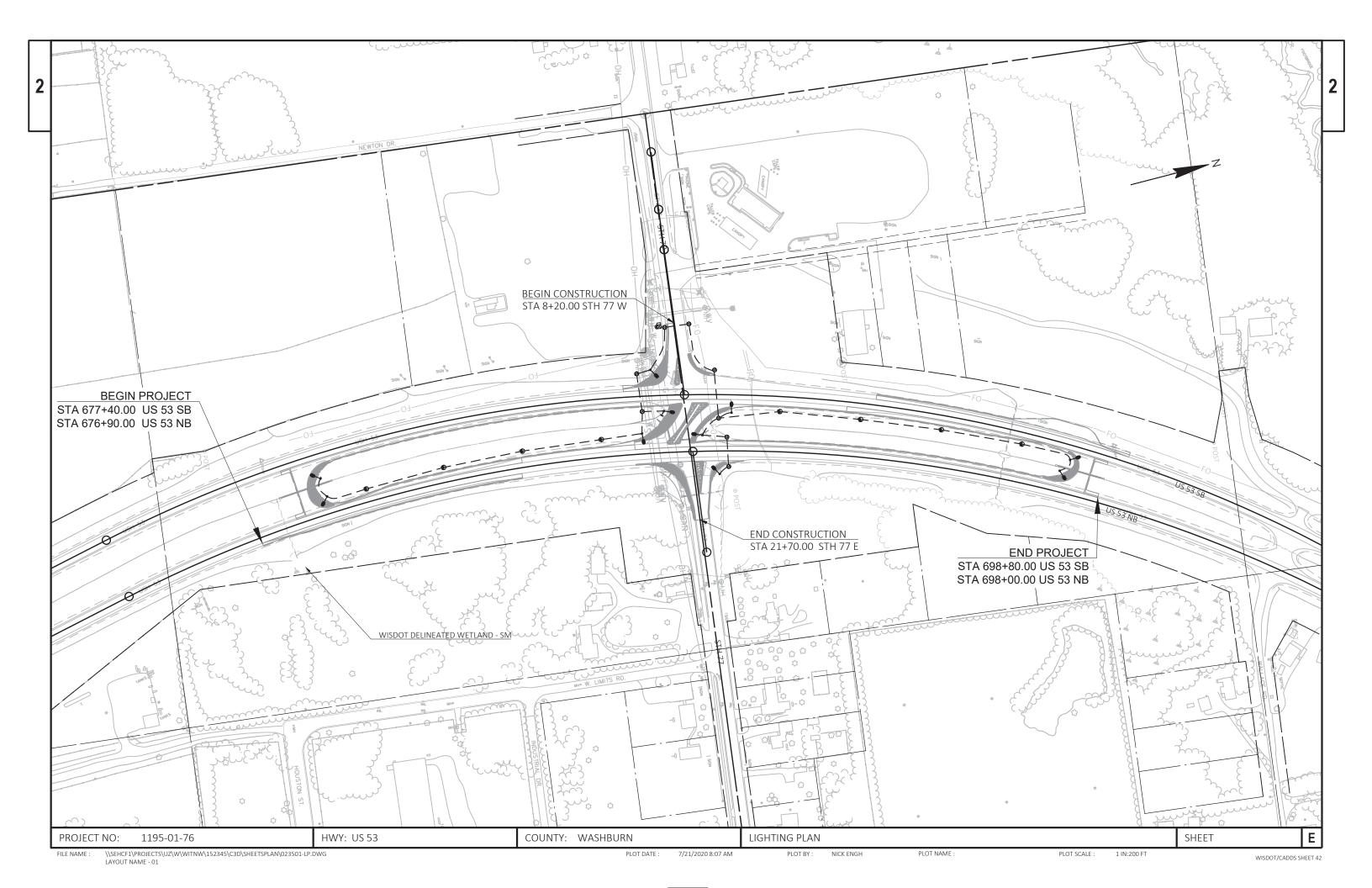
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CC31	686+55.33 US 53 NB	138.13 RT	21+26.29 STH 77 E	141.38 RT	668425.001	754462.037	114.0'	EOT
CC32	687+07.76 US 53 NB	86.00 RT	20+78.09 STH 77 E	87.00 RT	668479.888	754414.406	62.0'	EOP
CC33	687+95.59 US 53 NB	29.35 RT	20+30.00 STH 77 E	-4.33 LT	668571.715	754367.271	2.5'	BAC
CC34	688+10.10 US 53 NB	28.35 RT	20+30.60 STH 77 E	-18.74 LT	668586.110	754368.026	2.5'	BAC
CC35	688+02.67 US 53 NB	100.79 RT	21+01.76 STH 77 E	-3.33 LT	668569.965	754439.022	1.5'	BAC
CC36	688+71.30 US 53 NB	68.00 RT	20+77.38 STH 77 E	-73.70 LT	668640.581	754415.372	40.0'	EOP
CC37	689+23.19 US 53 NB	117.19 RT	21+33.15 STH 77 E	-116.72 LT	668683.018	754471.592	99.0'	EOT

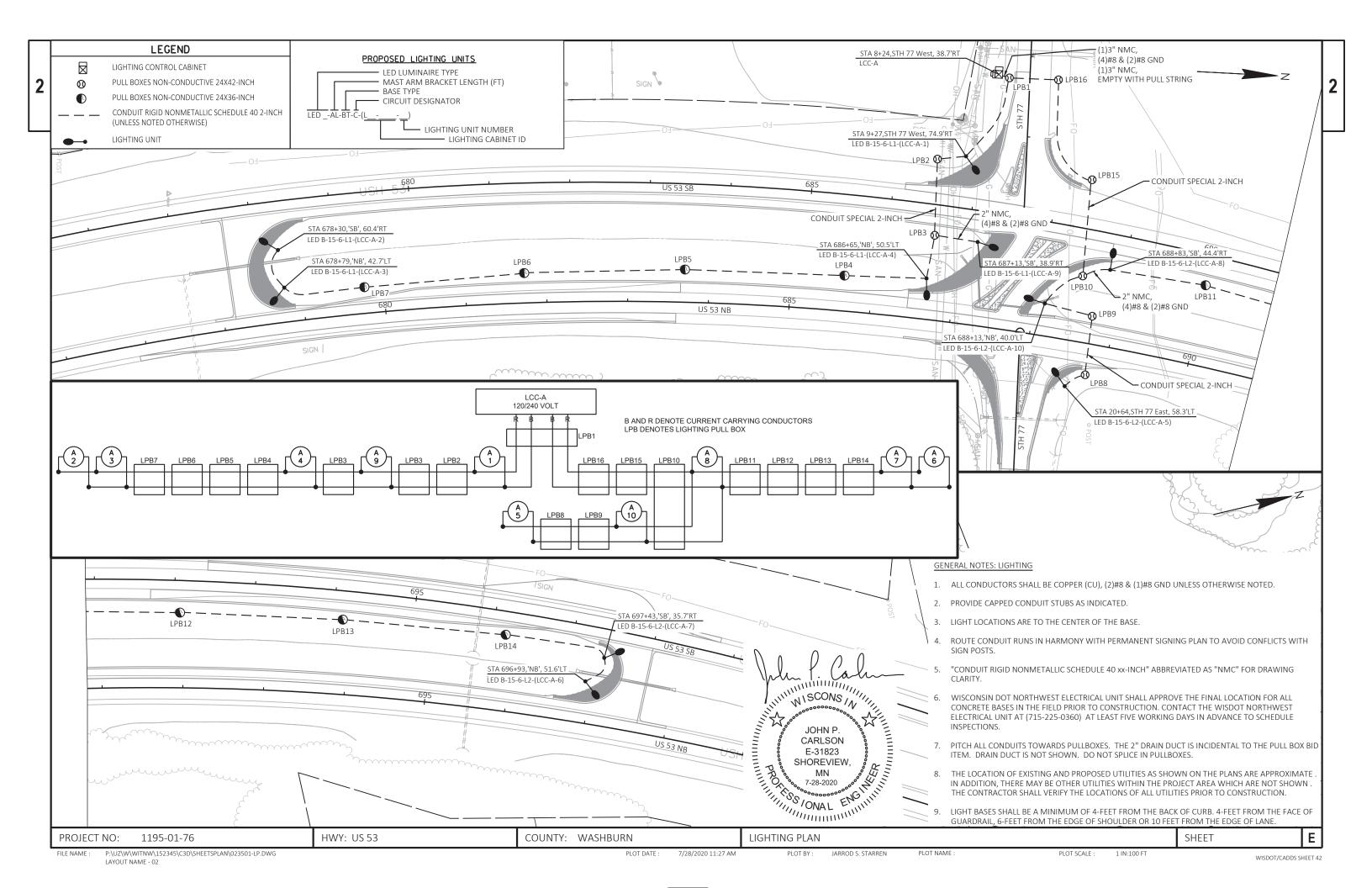
#### NORTH END - R CUT & LOON

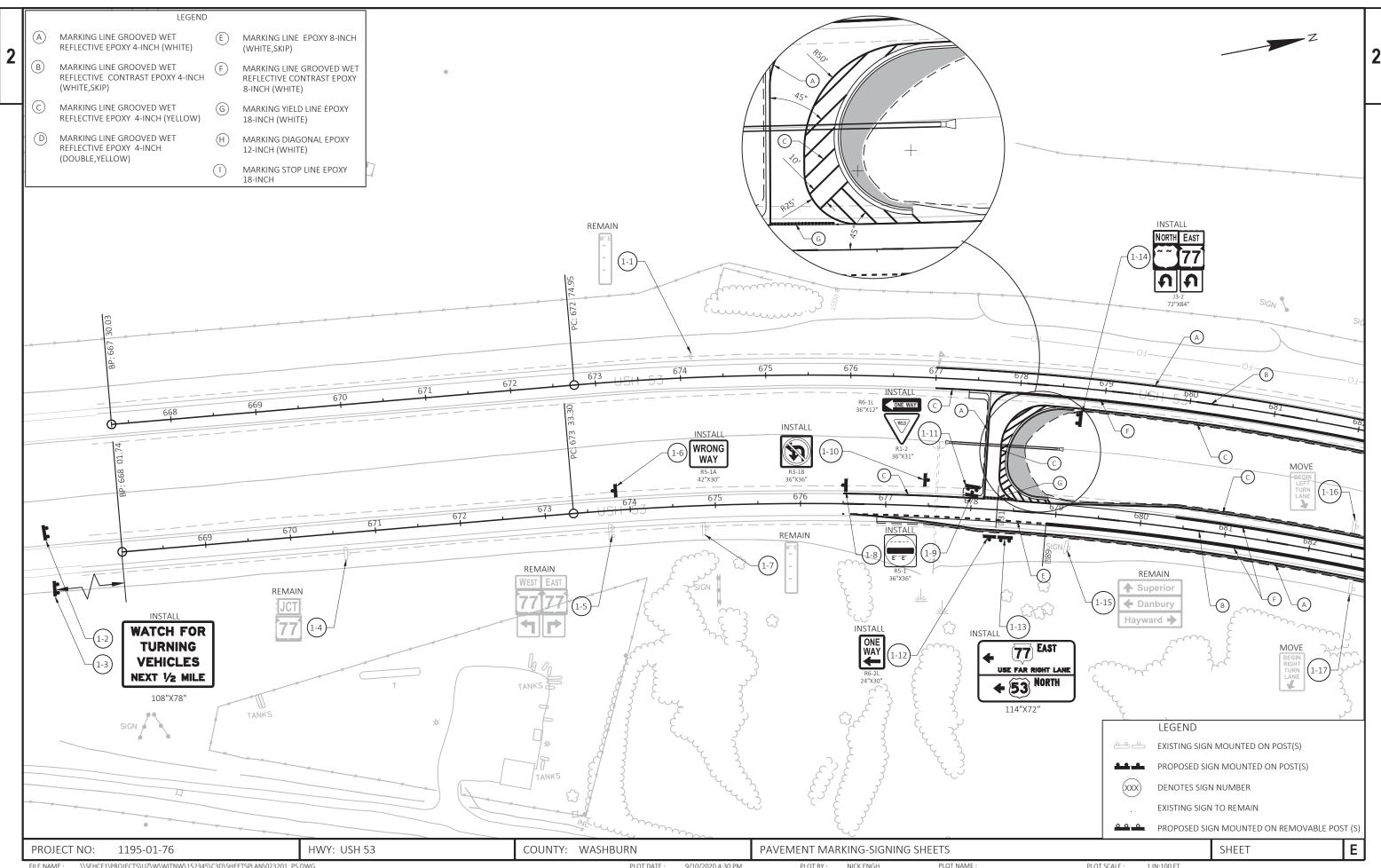
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CC40	696+88.21 US 53 NB	-74.00 LT	697+19.85 US 53 SB	46.50 RT	669464.314	754495.425	50.0'	EOP
CC41	697+22.43 US 53 NB	-121.55 LT	697+54.01 US 53 SB	-2.00 LT	669515.229	754465.252	50.0'	EOT
CC42	696+65.59 US 53 NB	-45.38 LT	696+97.20 US 53 SB	75.74 RT	669432.144	754513.165	69.0'	EOT
CC43	697+04.14 US 53 NB	-76.33 LT	697+36.31 US 53 SB	43.72 RT	669480.254	754499.548	19.0'	EOT
CC44	696+43.31 US 53 NB	-126.00 LT	696+71.88 US 53 SB	-4.23 LT	669441.013	754429.833	99.0'	EOP
CC46	697+00.65 US 53 NB	-68.15 LT	697+32.92 US 53 SB	52.00 RT	669473.802	754505.719	36.0'	EOP
CC47	697+72.99 US 53 NB	-98.08 LT	698+07.04 US 53 SB	20.00 RT	669553.761	754507.637	5.0'	EOP
CC48	697+70.96 US 53 NB	-20.00 LT	698+07.22 US 53 SB	98.11 RT	669520.158	754578.145	5.0'	EOP
CC49	696+61.84 US 53 NB	-73.24 LT	696+92.53 US 53 SB	48.00 RT	669439.071	754485.912	100.0'	EOT

683+86.82 US 53 NB

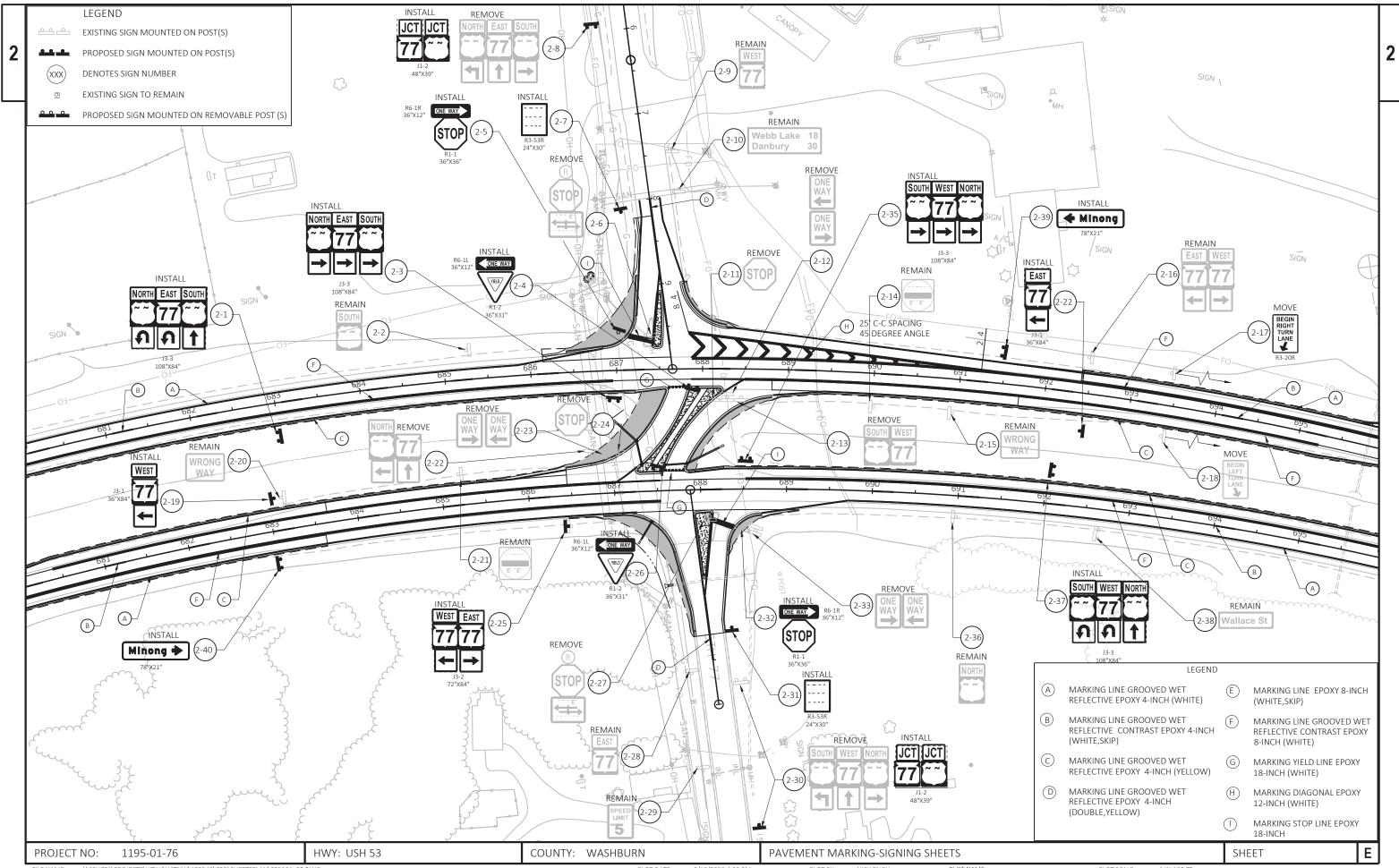
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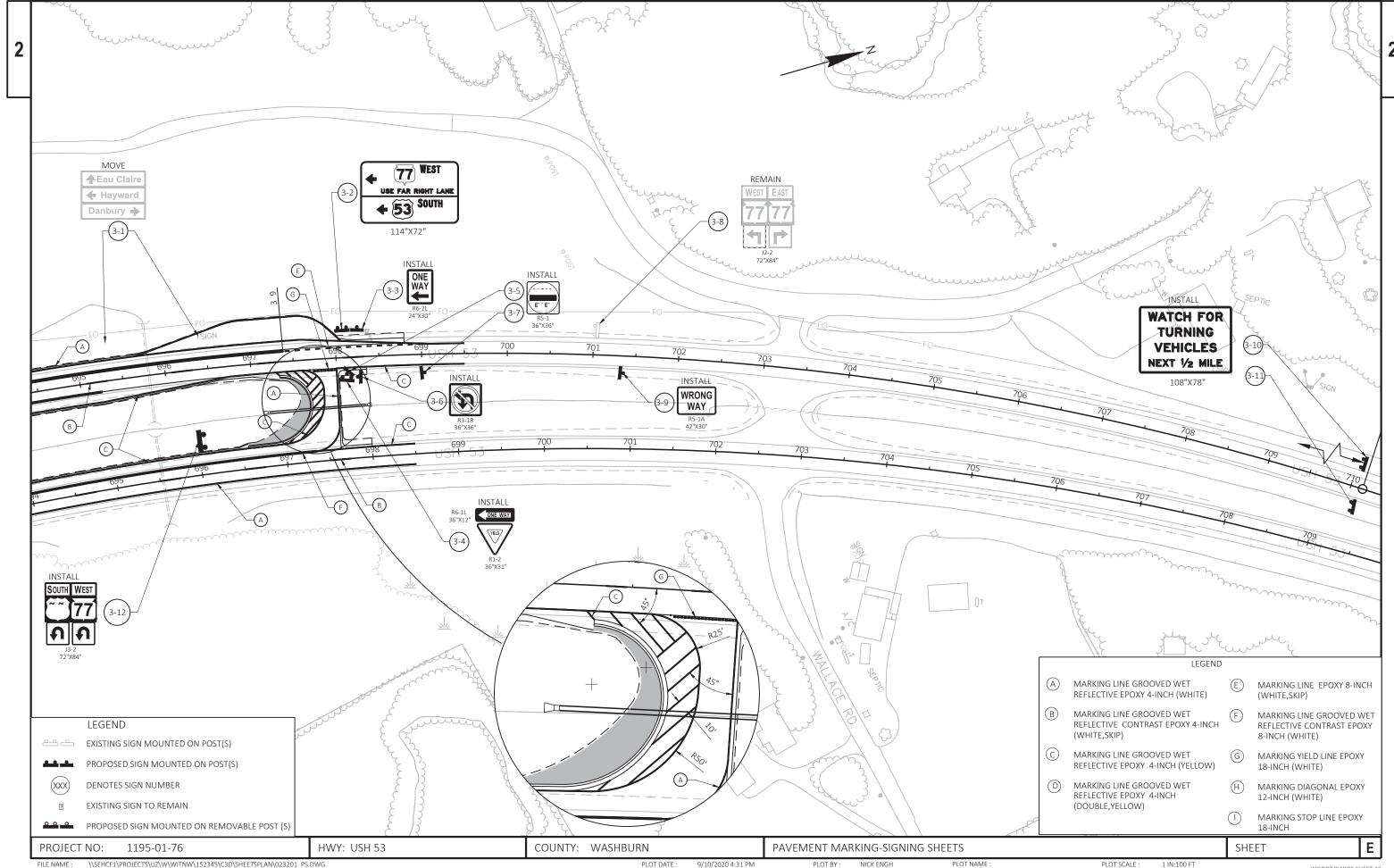




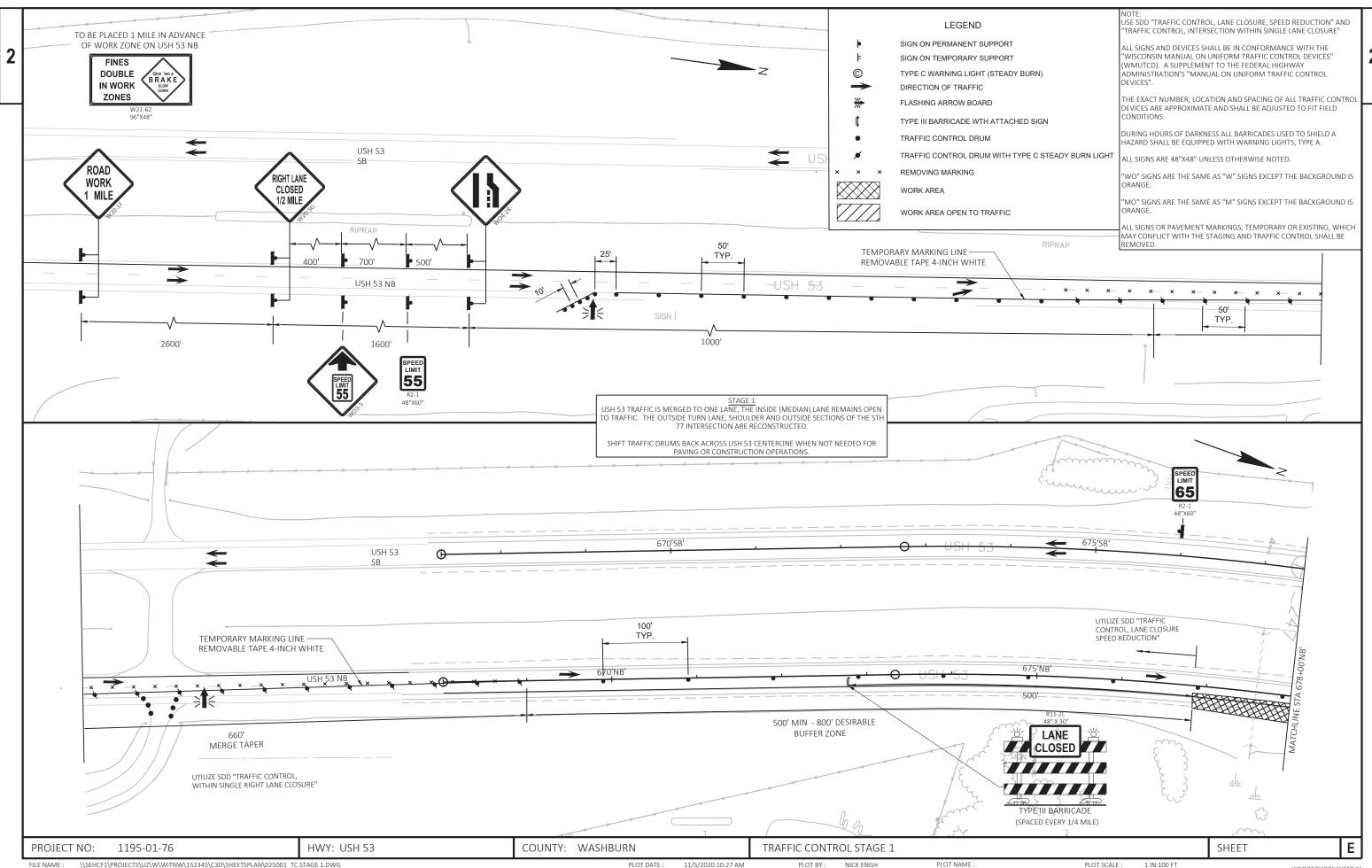
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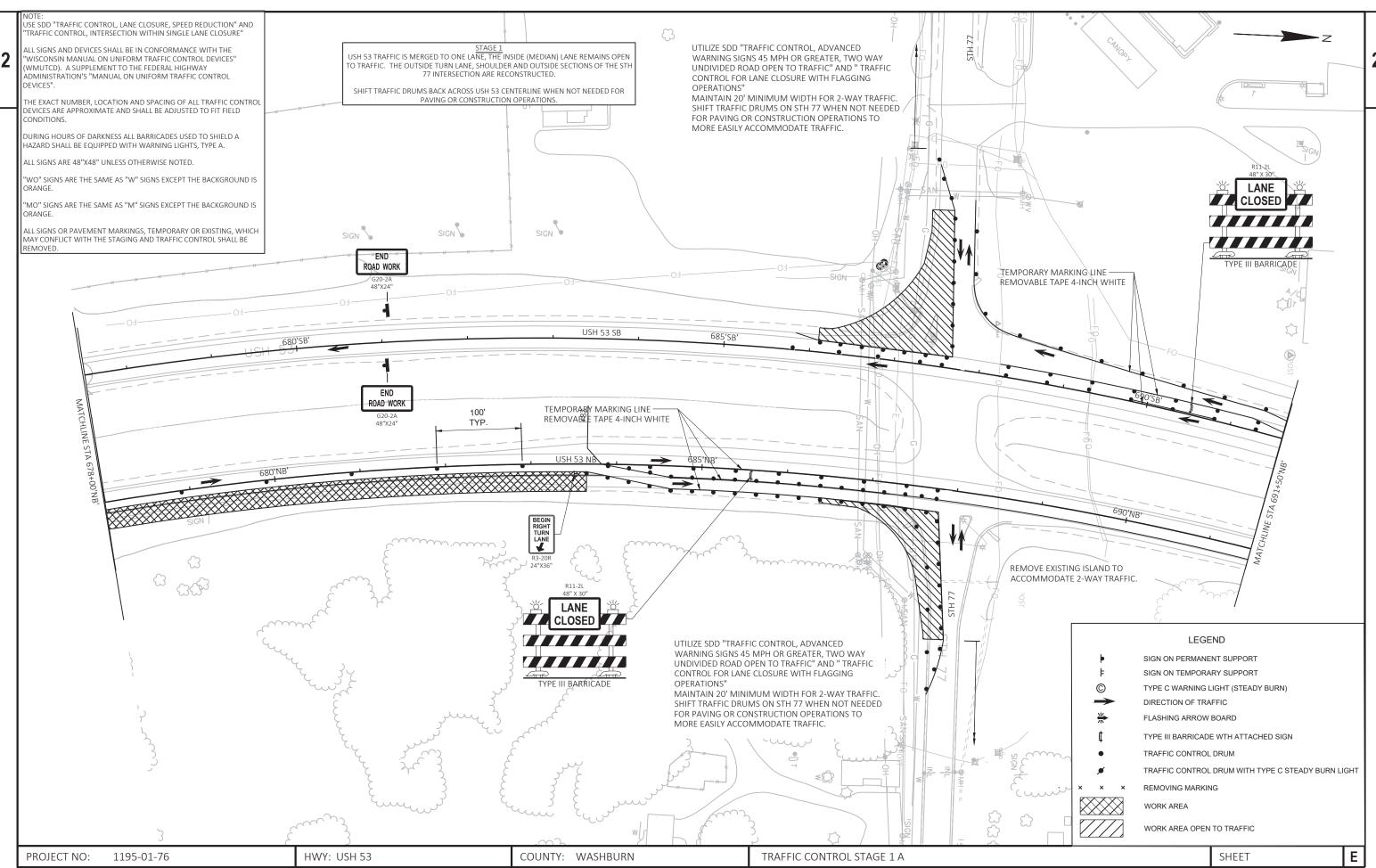


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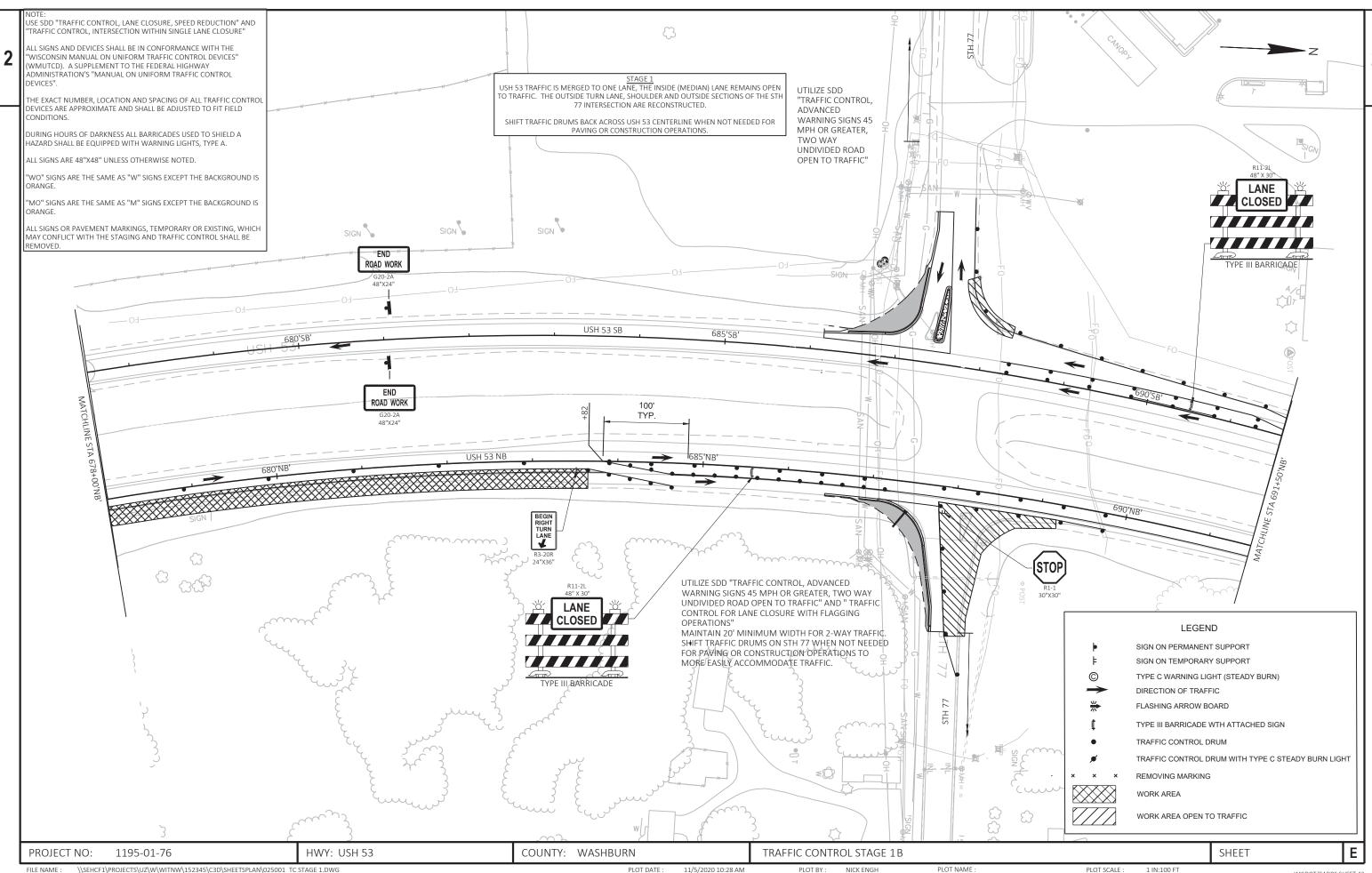


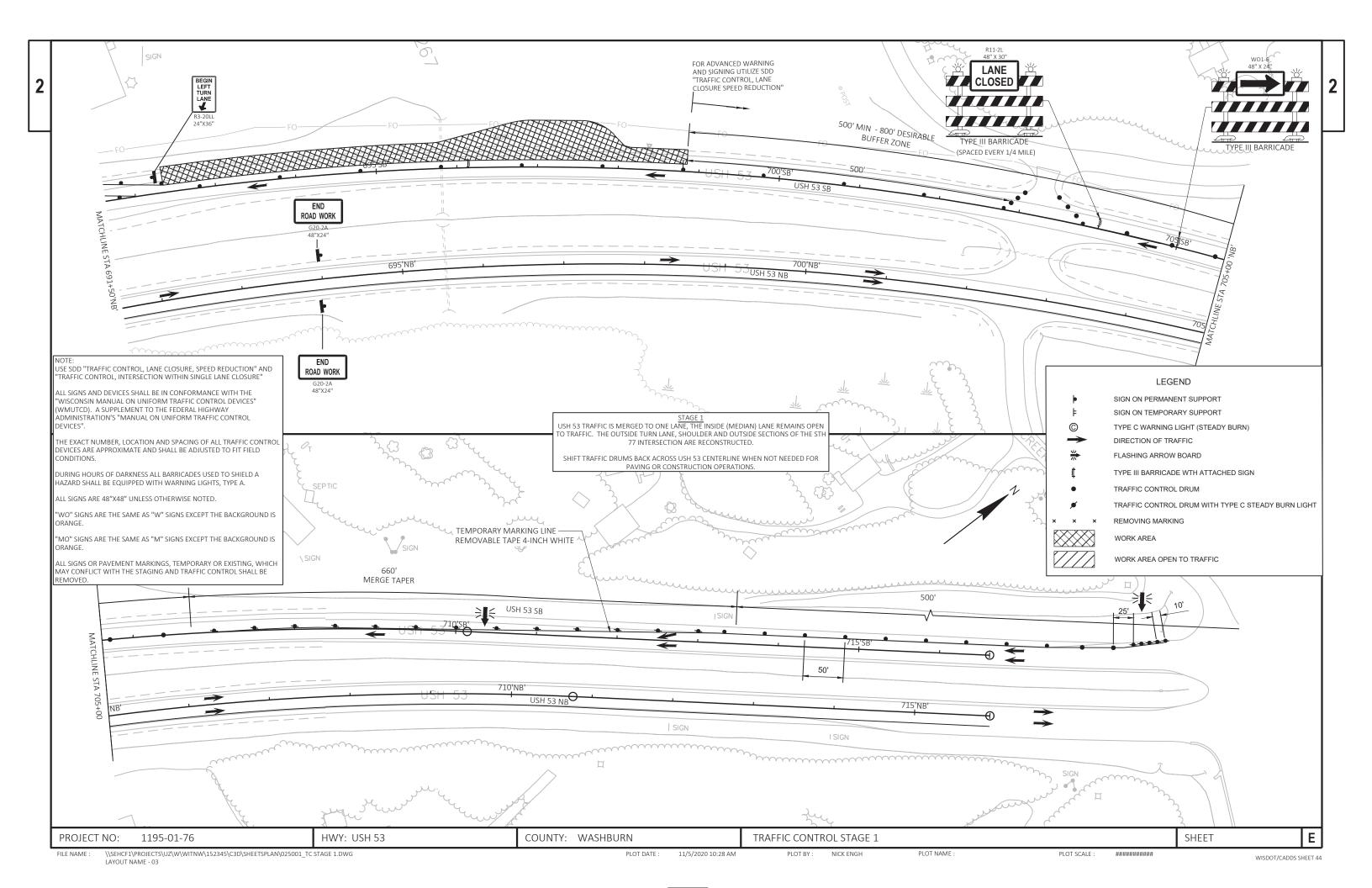
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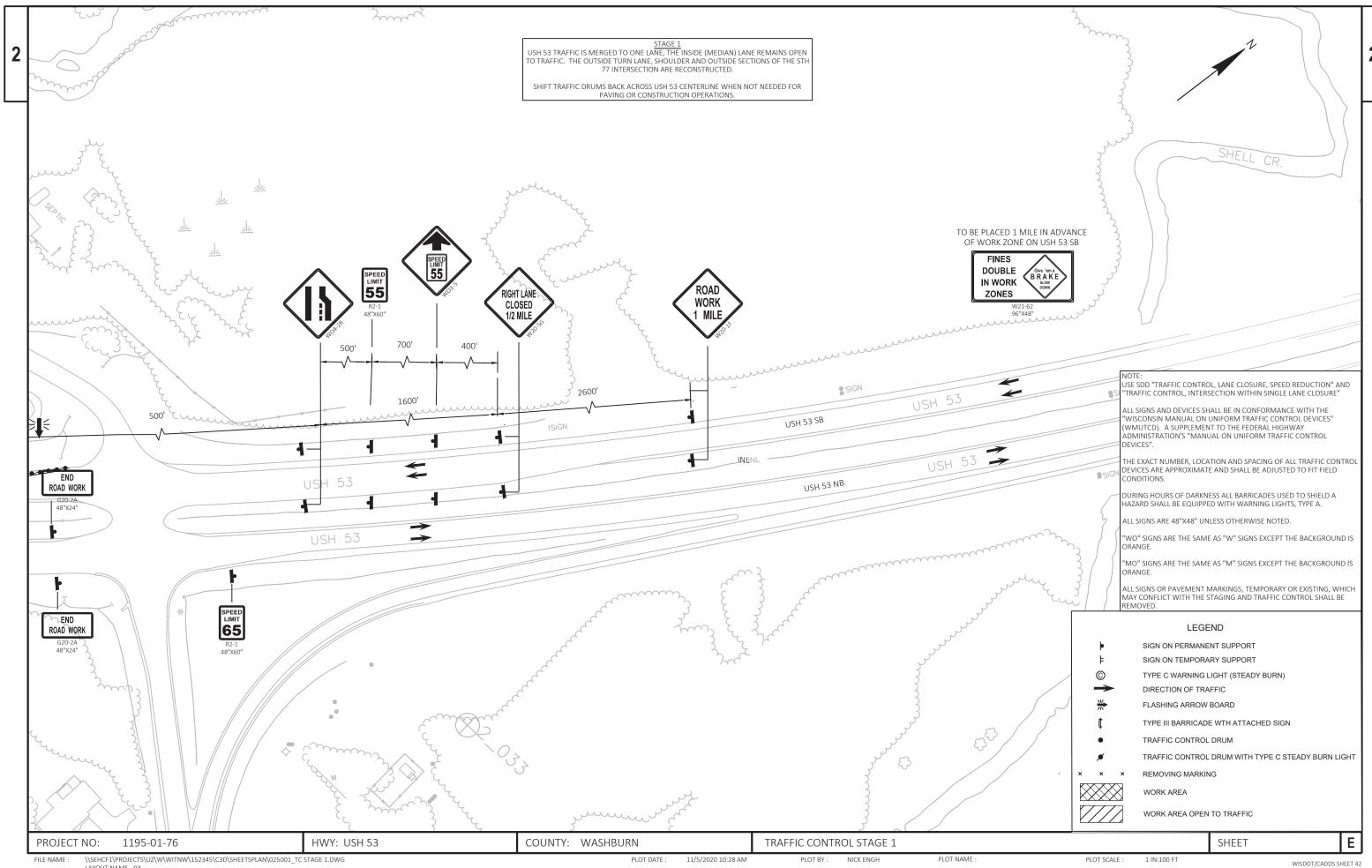




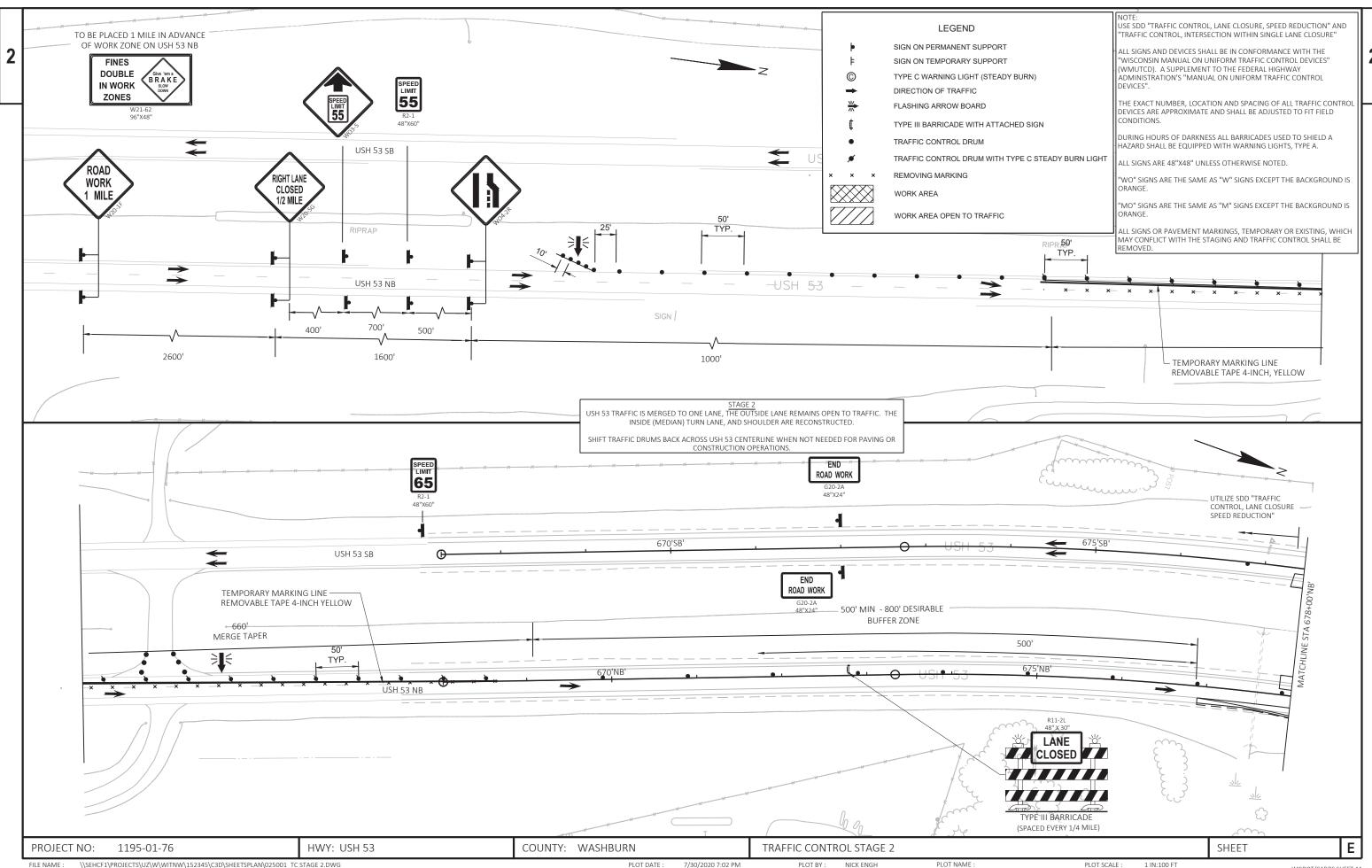
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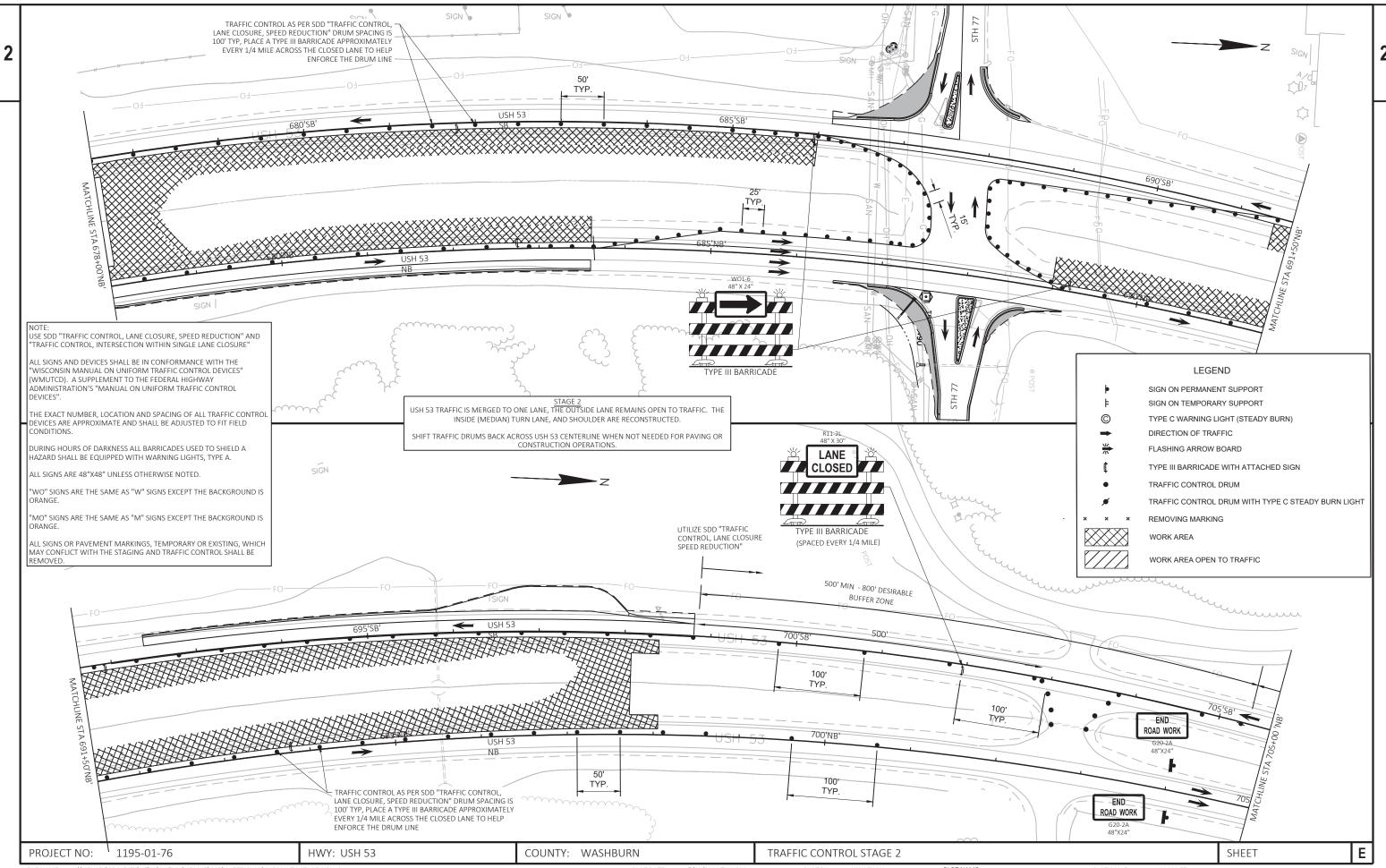


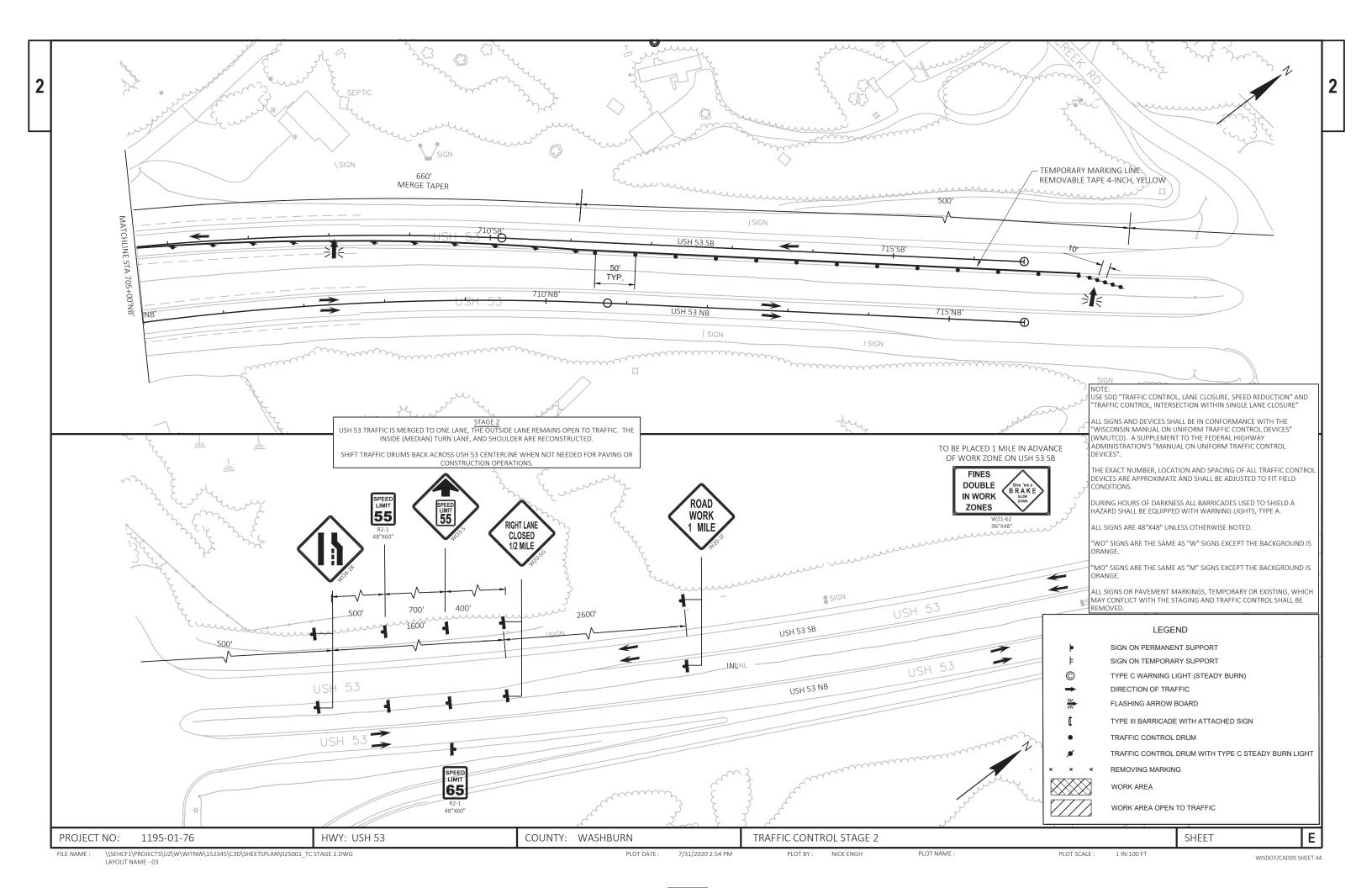


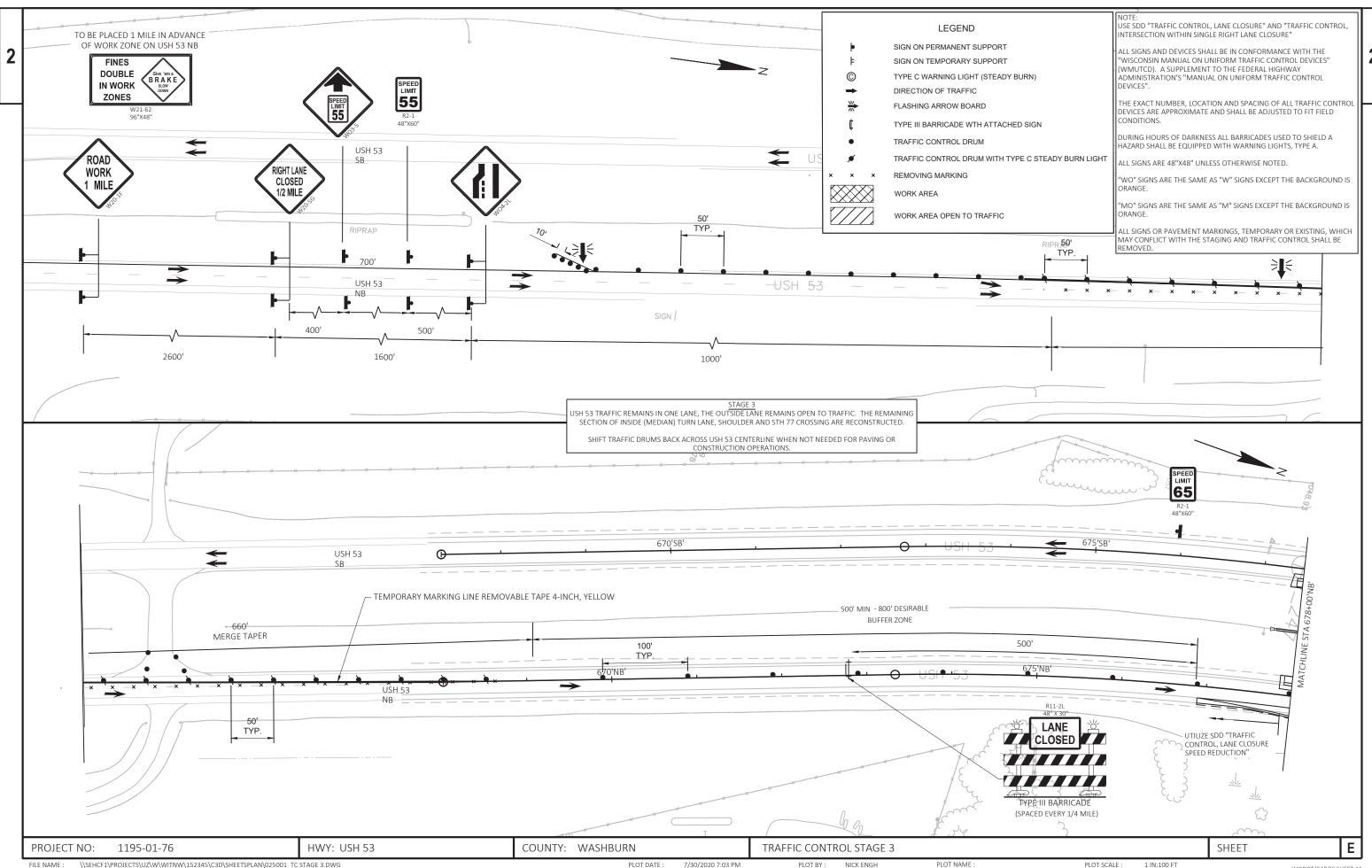


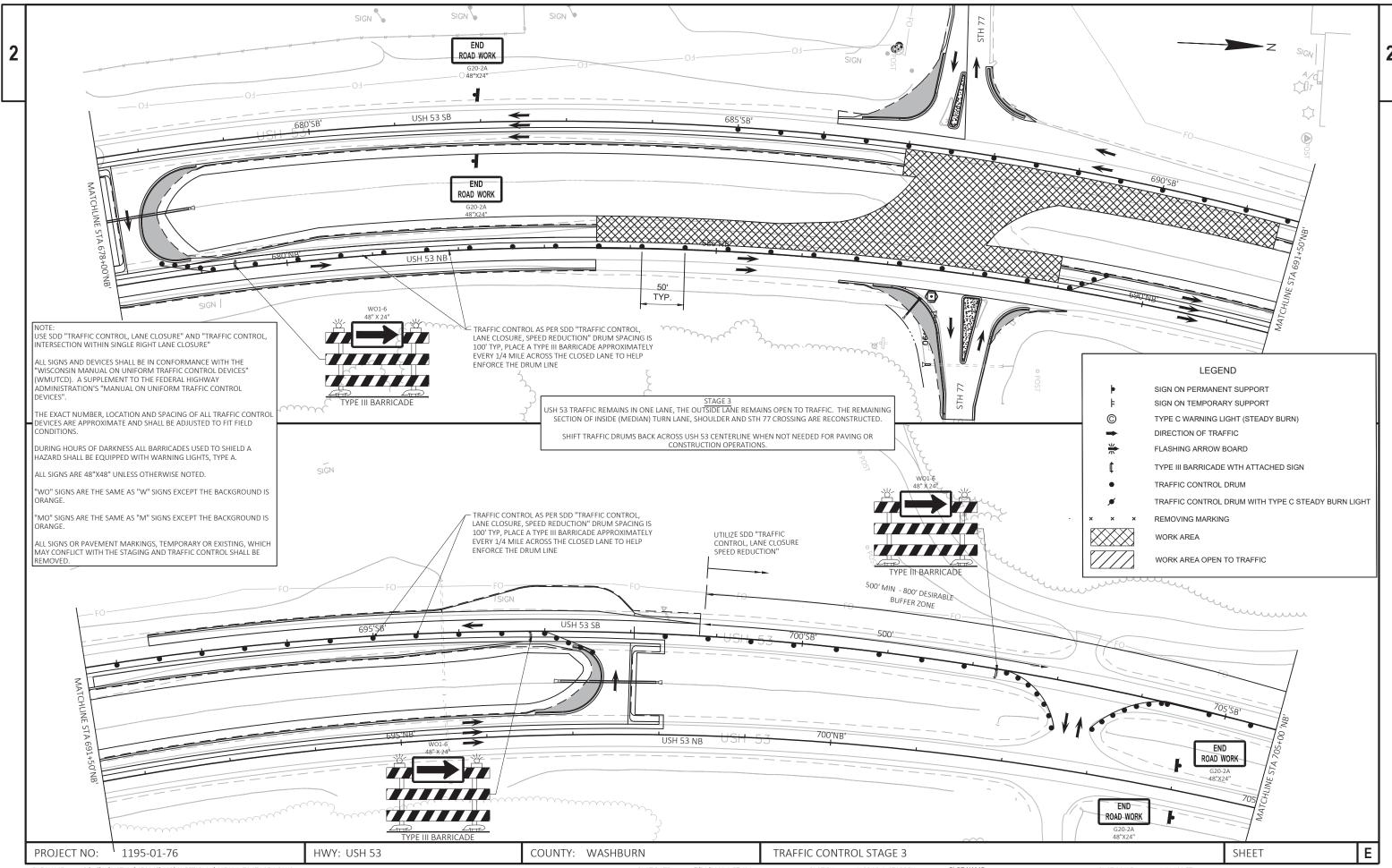
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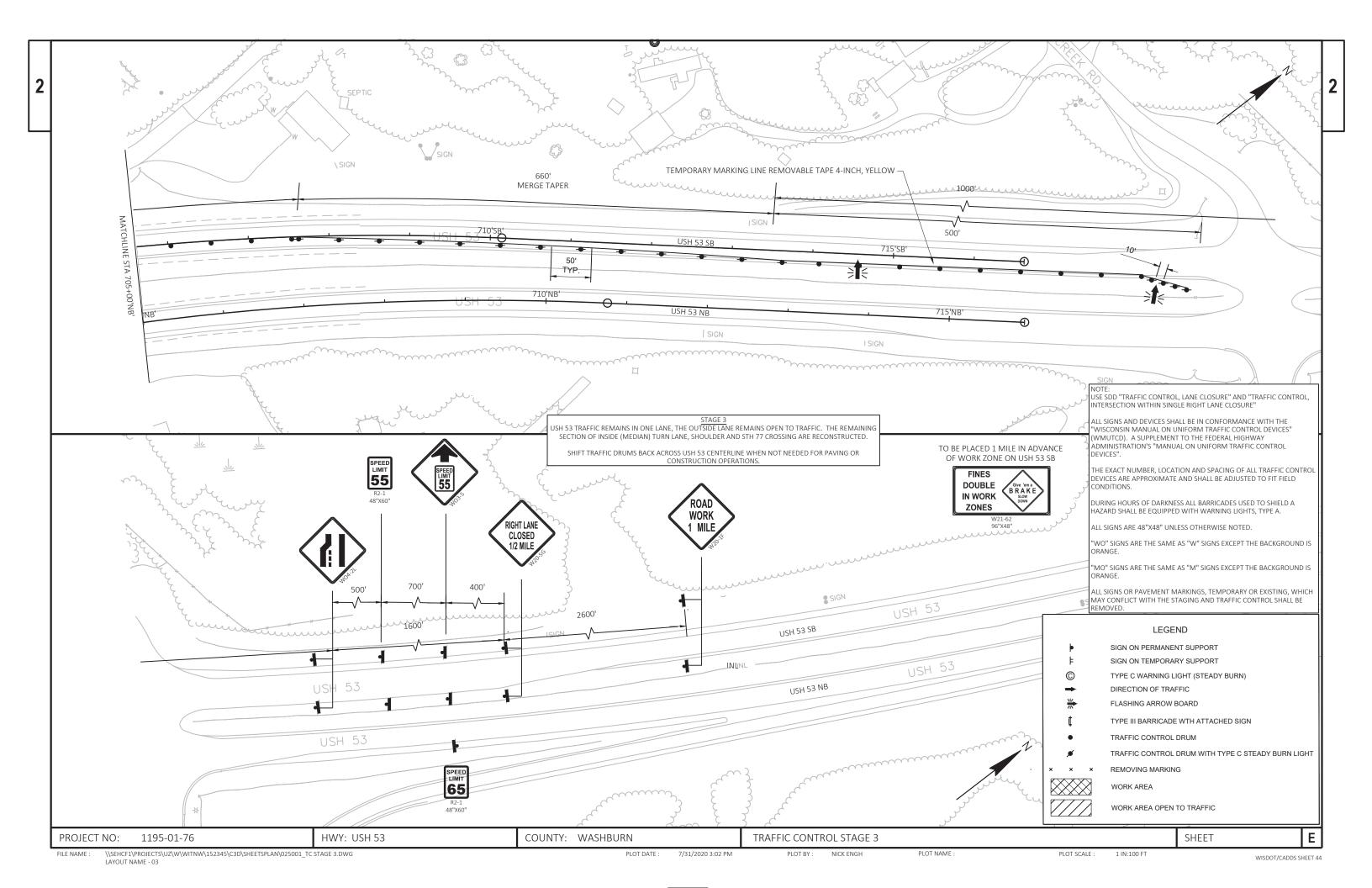








WISDOT/CADDS SHEET 44



					1195-01-76
Line	Item	Item Description	Unit	Total	Qty
		·			
0002	204.0130	Removing Curb & Cuttor	LF	162.000	162.000
0004	204.0150	Removing Curb & Gutter	LF	468.000	468.000
0006	204.0195	Removing Concrete Bases	EACH	4.000	4.000
0008	204.0205	Removing Utility Poles	EACH	4.000	4.000
0010	205.0100	Excavation Common	CY	4,858.000	4,858.000
0012	208.0100	Borrow	CY	1,626.000	1,626.000
0014	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	52.000	52.000
0016	213.0100	Finishing Roadway (project) 01. 1195-01-76	EACH	1.000	1.000
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	780.000	780.000
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	8,070.000	8,070.000
0022	305.0500	Shaping Shoulders	STA	63.000	63.000
0024	405.0100	Coloring Concrete WisDOT Red	CY	430.000	430.000
0026	415.0060	Concrete Pavement 6-Inch	SY	118.000	118.000
0028	416.0512	Concrete Truck Apron 12-Inch	SY	1,290.000	1,290.000
0030	455.0605	Tack Coat	GAL	1,067.000	1,067.000
0032	460.2000	Incentive Density HMA Pavement	DOL	2,000.000	2,000.000
0034	460.6644	HMA Pavement 4 MT 58-34 V	TON	3,121.000	3,121.000
0036	465.0105	Asphaltic Surface	TON	50.000	50.000
0038	465.0315	Asphaltic Flumes	SY	35.000	35.000
0040	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	1.000	1.000
0040	521.1024	Culvert Pipe Corrugated Steel 24-Inch	LF	6.000	6.000
0042	521.3124	Culvert Pipe Confugated Steel 24-Inch  Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	236.000	236.000
0044		Apron Endwalls for Culvert Pipe Reinforced Concrete	EACH		1.000
0040	522.1012	12-Inch	EAUT	1.000	1.000
0048	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	2.000	2.000
0050	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete	EACH	4.000	4.000
0050	504.0004	24-Inch	E4011	4.000	4.000
0052	524.0624	Apron Endwalls for Culvert Pipe Salvaged 24-Inch	EACH	1.000	1.000
0054	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	91.000	91.000
0056	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D		869.000	869.000
0058	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D		654.000	654.000
0060	601.0576	Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type J	LF	294.000	294.000
0062	602.0405	Concrete Sidewalk 4-Inch	SF	137.000	137.000
0064	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	24.000	24.000
0066	606.0200	Riprap Medium	CY	12.000	12.000
0068	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-	LF	78.000	78.000
0070	000 0445	Inch		74.000	74.000
0070	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	71.000	71.000
0072	611.0636	Inlet Covers Type HM-S	EACH	5.000	5.000

		_	_	_			
- 1	1	9	<b>5</b> -	()1	1	76	

Line	Item	Item Description	Unit	Total	Qty
		Communications			
0152	643.5000	Traffic Control	EACH	1.000	1.000
0154	645.0120	Geotextile Type HR	SY	40.000	40.000
0156	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	11,406.000	11,406.000
0158	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	2,523.000	2,523.000
0160	646.3020	Marking Line Epoxy 8-Inch	LF	1,682.000	1,682.000
0162	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	3,043.000	3,043.000
0164	646.5020	Marking Arrow Epoxy	EACH	2.000	2.000
0166	646.6120	Marking Stop Line Epoxy 18-Inch	LF	58.000	58.000
0168	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	111.000	111.000
0170	646.7120	Marking Diagonal Epoxy 12-Inch	LF	252.000	252.000
0172	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	3,960.000	3,960.000
0174	650.4000	Construction Staking Storm Sewer	EACH	5.000	5.000
0176	650.4500	Construction Staking Subgrade	LF	5,317.000	5,317.000
0178	650.5000	Construction Staking Base	LF	5,317.000	5,317.000
0180	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	1,908.000	1,908.000
0182	650.6000	Construction Staking Pipe Culverts	EACH	3.000	3.000
0184	650.7000	Construction Staking Concrete Pavement	LF	1,023.000	1,023.000
0186	650.8500	Construction Staking Electrical Installations (project) 01. 1195-01-76	LS	1.000	1.000
0188	650.9910	Construction Staking Supplemental Control (project) 01. 1195-01-76	LS	1.000	1.000
0190	650.9920	Construction Staking Slope Stakes	LF	5,317.000	5,317.000
0192	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	2,379.000	2,379.000
0194	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	288.000	288.000
0196	652.0605	Conduit Special 2-Inch	LF	30.000	30.000
0198	653.0154	Pull Boxes Non-Conductive 24x36-Inch	EACH	8.000	8.000
0200	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	8.000	8.000
0202	654.0106	Concrete Bases Type 6	EACH	10.000	10.000
0204	654.0224	Concrete Control Cabinet Bases Type L24	EACH	1.000	1.000
0206	655.0610	Electrical Wire Lighting 12 AWG	LF	1,800.000	1,800.000
0208	655.0620	Electrical Wire Lighting 8 AWG	LF	9,186.000	9,186.000
0210	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. Sta 8+24 RT	LS	1.000	1.000
0212	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	10.000	10.000
0214	657.0327	Poles Type 6-Aluminum	EACH	10.000	10.000
0216	657.0715	Luminaire Arms Truss Type 4 1/2-Inch Clamp 15-FT	EACH	10.000	10.000
0218	659.1120	Luminaires Utility LED B	EACH	10.000	10.000
0220	659.2124	Lighting Control Cabinets 120/240 24-Inch	EACH	1.000	1.000
0222	690.0150	Sawing Asphalt	LF	5,787.000	5,787.000

# Estimate Of Quantities Page 4

					1195-01-76
Line	Item	Item Description	Unit	Total	Qty
0224	690.0250	Sawing Concrete	LF	5.000	5.000
0226	715.0415	Incentive Strength Concrete Pavement	DOL	500.000	500.000
0228	740.0440	Incentive IRI Ride	DOL	500.000	500.000
0230	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	600.000	600.000
0232	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0234	SPV.0090	Special 01. Cure and Seal Treatment, Concrete Curb and Gutter	LF	1,908.000	1,908.000
0236	SPV.0165	Special 01. Cure and Seal Treatment, Concrete Sidewalk, Pavement, and Truck Apron	SF	13,910.000	13,910.000

STAGE	STATION TO STATION	LOCATION		95.0100   EXCAVATION   (1)	SALVAGED/UNU SABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (6)	MASS ORDINATE +/- (7)	WASTE	208.0100 BORROW	COMMENT:
			CUT (2)	EBS EXCAVATION (3)				FACTOR				
STAGE 1								1.30				
	676+90 - 683+60	USH 53 NB, RT	433		41	392	152	198	194	194		
-	692+40 - 698+78	USH 53 SB, LT	437		39	398	358	466	-68	-68		
	20+75 - 21+70	STH 77 E	293		61	232	13	17	215	215		
	(OUTSIDE OF ENDAREAS)	STH 77 E	307		65	242	5	7	236	236		
	8+20 - 9+34	STH 77 W	224		37	187	8	11	176	176		
-	(OUTSIDE OF ENDAREAS)	STH 77 W	281		48	233	32	42	191	191		
STAGE 1 SUBTOTAL STAGE 2			1975	0	291	1684	569	740	944	944	0	
	679+00 - 683+65	USH 53 NB, LT	268		19	249	106	138	111	111		
	679+00 - 686+00	USH 53 SB, RT	355		19	336	588	764	-428	-428		
	691+70 - 696+50	USH 53 NB, LT	301		24	277	89	116	161	161		
	689+00 - 697+30	USH 53 SB, RT	439		25	414	51	66	348	348		
	SOUTH RCUT	MEDIAN	149		8	141	1666	2166	-2025	-2025		
	NORTH RCUT	MEDIAN	165		8	157	498	647	-490	-490		
STAGE 2 SUBTOTAL			1677	0	103	1574	2998	3897	-2323	-2323	1379	SEE NOTE (8)
STAGE 3												
	683+65 - 686+00	USH 53 NB, LT	84		41		0	0	0	0		
	686+00 - 687+00	USH 53 SB, RT	107		6		42	54	-54	-54		
	688+50 - 691+70	USH 53 NB, LT	183		14		95	124	-124	-124		
	INTERSECTION	MEDIAN	832		175		53	69	-69	-69		
STAGE 3 SUBTOTAL			1206	0	236	0	190	247	-247	-247	247	
GRAND TOTAL			4858	0	630	3,258	3757	4884	-1626	-1626	1626	
	TOTAL COMMO	N EXC		4858	İ					•		

- (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT BORROW MATERIAL. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL.
- (4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (5) AVAILABLE MATERIAL = CUT SALVAGED/UNUSUABLE PAVEMENT MATERIAL
- (6) EXPANDED FILL FACTOR = 1.3
- (7) THE MASS ORDINATE + OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
- (8) USE WASTE FROM STAGE 1

COUNTY: WASHBURN Ε PROJECT NO: 1195-01-76 HWY: USH 53 MISCELLANEOUS QUANTITIES SHEET \\SEHCF1\PROJECTS\UZ\W\WITNW\152345\C3D\SHEETSPLAN\030201-MQ.DWG PLOT BY: NICK ENGH FILE NAME :

								CURB AND	O GUTTER					
				204.0130	204.0150	601.0411	601.0553	601.0557	601.0576	620.0200	620.0300	650.5500	SPV.0090.02	
						CONCRETE CURB &	CONCRETE	CONCRETE CURB &	CONCRETE CURB &			CONSTRUCTION	CONCRETE CURE & SEAL	
-					REMOVING	GUTTER C	JRB & GUTTER	GUTTER 6-INCH	GUTTER 4-INCH	CONCRETE	CONCRETE	STAKING CURB	TREATMENT	
				REMOVING CURB	CURB & GUTTER		-INCH SLOPED 6-INCH TYPE D		SLOPED 30-INCH TYPE J	MEDIAN BLUNT NOSE	MEDIAN SLOPED NOSE	GUTTER AND CURB & GUTTER	CURB AND GUTTER	
ş <b> </b>	<u>removal</u>	STATION TO STATION	LOCATION	LF	LF	LF	LF	LF	LF	SF	SF	LF	LF	REMARKS
'		678+30 - 679+10	LT				187					187	187	SOUTH RCUT - CROSSOVER
	204.0195 204.0 REMOVING		NB LT TURN MEDIAN ISLAND				201	303				201 303	201 303	
┨	CONCRETE REMO	OVING 687+81 - 688+84	SB TURN LANE				183	303				183	183	
	BASES UTILITY STATION LOCATION EACH EAG	Y POLES 696+57 - 697+50 ACH	LT				153					153	153	NORTH RCUT - CROSSOVER
		9+02 - 9+59	LT	0.4	78		76		120			76	76	RADIUS US 53 - WIS 77
	688+12'NB' 32'RT 1 1 688+39'NB' 60'RT 1 1	1 <u>9+10 - 9+73</u> 1 8+86 - 9+65	RT RT	81	55			147	129	36	65	129 147	129 147	MEDIAN ISLAND RADIUS US 53 - WIS 77
	687+17'SB' 62'LT 1 1 698+42'SB 32'LT 1 1	1 1 20+15 - 21+70	RT		175			204		32	58	204	204	RADIUS US 53 - TIE IN WIS 77
	096+42 3B 32 LI I I	20+26 - 21+02	LT	81				204	165	32		165	165	MEDIAN ISLAND
	TOTAL 0010 4 4	4 20+38 - 20+81 20+81 - 21+70	LT LT		69 91	91	69					69 91	69 91	RADIUS US 53 - WIS 77 TIE INTO EXISTING
			TOTAL 0010	162	468	91	869	654	294	68	123	1,908	1,908	
				SHOULDERS							BASE AG	<u>GGREGATE</u>		
					*	*								
					211.040 PREPAF		00					305.0110	305.0120	624.0100
					FOUNDAT							BASE AGGREGATE		
	<u>FINISHING</u>				FOR ASPHALT	TIC SHAPIN	G					DENSE 3/4- INCH	BASE AGGREGAT DENSE 1 1/4-INC	
	242	CTATION T	O STATION	LOCATION	SHOULDE STA				STATION	TO STA	ATION LOCAT		TON	MGAL_
		.0100.01 STATION T	O STATION	LOCATION	I SIA	STA			US 53 NB 676+90	- 683	3+60 RT	97	588	7
		7.6577.11	- 683+60	NB RT	7 7	7 7			677+90		3+65 LT		457	5
	,		- 686+45 - 678+15	NB LT NB MEDIAI	•	2			686+45 688+27		8+28 LT 6+57 LT		229 992	<u>3</u>
		678+58 1 686+45	- 687+96 - 687+28	NB MEDIAI MEDIAN	· -	2			US 53 SB	- 696	UIU/ LI	/0		11
	070T30 - 030T00 03 33 & 31N //	687+95	- 688+82	MEDIAN	<del>-</del>	2			677+40 687+20	- 687 - 691	7+20 RT 1+70 RT		990 211	11 3
	TOTAL 0010	1 050.57	- 697+19 - 698+00	MEDIAN MEDIAN	- 2	1			691+70	- 69		18	565	6
			- 21+70	LT STH 77		2			692+40 STH 77 EAST	- 695	5+80 LT	58	847	9
		<u>20+40</u> 678+64	- 21+70 - 687+21	RT STH 77 SB RT	1 9	1 9			20+24	- 21	+70 RT/L	.T 61	623	7
		688+32	- 697+32	SB RT	8	8			STH 77 WEST 8+20	۵	+86 RT/L	.T 45	933	10
		0.00	- 699+77 - 9+63	SB LT LT STH 77	4	7			STH 77 MEDAIN T		.co Mi/L			
		9+02	- 9+57	RT STH 77	5	5			CROSSOVER LEFT	TURN LANES		126	834	10
		UNDISTRUBUTED		LT/RT	5	5			678+14	- 678			484	5
			IND COREST	TOTAL 001	0 52	63			696+57	- 697	7+64 LT	39	317	4
		* INCLUDES AROU	UND SIDE ROAD	KADII							TOTAL (	780	8,070	89
PROJECT NO:	1195-01-76	HWY: USH 53	COLINITY	WASHBUF	RN		MISCELLA	ANEOUS QUANT	TITIES				SHE	EET <b>E</b>
LUOTECLINO:	TT30-0T-10	11001. 031133	COUNTY:	NADDI	VIA		IVIIOCELLA	ANLOUS QUANT	IIILJ				SHI	' <b>                                   </b>

PLOT NAME :

	3
ı	J

465.0103 465.0315

UPPER LAYER & LT SHOULDER LEVELING (PASSING ASPHALTIC ASPHALTIC LAYER SHOULDER SURLACE TLUMES TON. TON TON SY

HMA PAVEMENT

460.6644

TACK LOWER COAT LAYER STATION TO STATION LOCATION GAL TON US 53 NB 94 94 676+90 - 683+60 RIGHT TURN LANE 66 11 678+88 + 683+65 LEFT URN LANE 54 17 STH 77 EAST 82 117 117 687+25 - 689~15 100 686+45 - 688+27 MEDIAN TURN LANE 100 123 143 143 133 109 156 156 50 72 72 35 61

PAVEMENT

455.0605

688+27 696-57 LEFT TURN LANE 696+57 - 697+99 MEDIAN TURN LANE US 53 SB 677+65 - 679-64 MEDIAN TURN LANE 69 LEET TURN LANE 678+54 - 587-20

STH 77 WEST 73 SHOULDER 70 77 RT TURN LANE

1,057

STORM

29

42

71

12

40

RCUT / MEDIAN

SUB TOTAL

101AL 0010

STORM

53 90 62

57

111

50

57

809 00 1156 00 1156.00

650.6000

81

159

86

81

3,121

81

159

85

81

90

52

50

**CULVERT PIPES** 

522.1012

APRON

ENDWALLS

522.1015 522.1024 524.0624 606.0200 608.0412 608.0415 645.0120 APRON

12

CULVERT PIPE FOR CULVERT FOR CULVERT ENDWALLS FOR APRON SEWER PIPE SEWER PIPE REINFORCED PIPE PIPE CULVERT PIPE **ENDWALLS FOR** REINFORCED REINFORCED REINFORCED REINFORCED REINFORCED **CULVERT PIPE** CONCRETE CONCRETE CONSTRUCTION CONCRETE CONCRETE CONCRETE SALVAGED RIPRAP CLASS IV CLASS IV GEOTEXTILE STAKING PIPE MEDIUM 12-INCH 15-INCH 24-INCH 24-INCH 12-INCH 15-INCH TYPE HR CULVERTS EACH EACH EACH EACH CY LF LF SY EACH

685+14 - 687~63

691+70 - 696+75

692+40 698-77

695+80 698-04

687+28.1'NB' 58.9' LT - 687+08.8'NB' 79.6' LT 1049.43 1049.28 28 24 26

ENDWALLS

APRON

112

PROJECT NO: 1195-01-76

FILE NAME:

HWY: USH 53

58.9' LT

30.8' LT

CONCRETE

602.0405

CONCRETE

SIDEWALK 4-INCH

SF

137

137

602.0505

**CURB RAMP** 

DETECTABLE

WARNING FIELD

YELLOW

SF

521.3124

CULVERT PIPE

CORRUGATED

STEEL 24-INCH

TOTAL 0010

650.7000

CONSTRUCTION

STAKING

CONCRETE

**PAVEMENT** 

63

124

97

97

101

91

151

75

33

0

76

61

54

1,023

522.0424

CONCRETE

CLASS IV

24-INCH

LF

124

236

SPV.0165.01

CURE AND SEAL,

CONCRETE

SIDEWALK,

PAVEMENT,

TRUCK APRON

SF

2,216

2,317

1,207

1,230

977

1,223

1,485

738

281

1,766

325

145

13,910

416.0512

CONCRETE

TRUCK APRON

12-INCH

SY

246

257

134

109

136

165

31

196

16

1,290

INLET OUTLET

OFFSET ELEVATION ELEVATION SLOPE

1049.92

1049.45

405.0100

COLORING

CONCRETE

WISDOT

RED

CY

82

86

45

36

45

55

10

65

5

430

OFFSET TO STATION

687+85.2'NB' 30.8' LT - 688+22.36'NB' 48.5' LT

677+73.8'NB' 76.6'LT - 678+95.0'NB' 75.7'LT 1046.37

696+86.5'NB' 60.8'LT - 697+95.8'NB' 62.6'LT 1045.00

20+07.1'STH 77' 34.5' RT - 21+07.3'STH 77' 40.4' RT 1047.20 1047.14

687+32.9'NB 31.8' LT - 687+28.1'NB'

687+41.8'NB' 35.6' RT - 687+29.1'NB'

687+59.2'NB' 29.8' LT - 687+85.2'NB'

STATION TO STATION LOCATION

687+66

688+25

688+25

688+82

697+79

21+70

21+02

20+73

9+73

- 9+56

RCUT / MEDIAN

MEDIAN

MEDIAN

MEDIAN

MEDIAN

MEDIAN

RT

MED

LT

RT

MEDIAN

LT

TOTAL 0010

US 53 NB

686+42

687+28

687+28

687+81

696+88

STH 77 EAST

20+19

20+27

20+40

STH 77 WEST

9+12

9+02

8+86 - 9+62

678+33 - 678+96

415.0060

CONCRETE

PAVEMENT 6-INCH

SY

82

118

COUNTY: WASHBURN

MISCELLANEOUS QUANTITIES

PLOT NAME

78

SHEET

WISDOT/CADDS SHEET 42

P:\UZ\W\WITNW\152345\C3D\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 030202-mq

11/10/2020 1:07 AM

PLOT BY: JARROD S. STARREN

			RIM	TOP OF STRUCTURE	BOTTOM OF STRUCTURE		611.0636 INLET COVERS TYPE HM-S	611.3230 INLETS 2X3-FT	628.7010 INLET PROTECTION TYPE B	650.4000 CONSTRUCTION STAKING STORM SEWER
NO.	*STATION	*OFFSET	ELEVATION	ELEVATION	ELEVATION	**DEPTH	EACH	EACH	EACH	EACH
1	687+28.1'NB'	58.9' LT	1052.73	1051.65	1049.22	2.42	1	1	1	1
2	687+32.9'NB'	31.8' LT	1052.72	1051.64	1049.75	1.88	1	1	1	1
5	687+41.8'NB'	35.6' RT	1050.51	1049.43	1047.67	1.75	1	1	1	1
3	687+59.2'NB'	29.8' LT	1052.47	1051.39	1049.75	1.63	1	1	1	1
4	687+85.2'NB'	30.8' LT	1052.59	1051.51	1049.24	2.26	1	1	1	1
					TO	OTAL 0010	5	5	5	5

**INLETS** 

MOBILIZATION STATION TO STATION LOCATION EACH 676+90 - 698+00 TOTAL 0010

MOBILIZATION

TRACKING PAD

\*\* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

\*\*\* DEPTH = RIM ELEVATION - COVER HEIGHT - 7-INCH ADJUSTMENT HEIGHT - BOTTOM OF STRUCTURE ELEVATION

MOBILIZATIONS EROSION CONTROL

LOCATION

628.1910

619.1000

PADS LOCATION EACH

628.7560

TRACKING

MOBILIZATIONS

MOBILIZATIONS EMERGENCY EROSION

CONTROL

EACH

3

SILT

1 TOTAL 0010

676+90 - 698+00

STATION TO STATION

3

628.1905

EROSION

CONTROL

EACH

TOTAL 0010

**TOPSOIL** 

625.0500 627.0200 629.0210 630.0120 630.0200 630.0300 630.0500 SEEDING SEEDING

						SEEDING		SEEDING	
			SALVAGED		FERTILIZER	MIXTURE	SEEDING	BORROW	SEED
			TOPSOIL	MULCHING	TYPE B	NO. 20	TEMPORARY	PIT	WATER
STATION 7	TO STATION	LOCATION	SY	SY	CWT	LB	LB	LB	MGAL
US 53 NB									
676+90	- 683+60	RT TURN LANE	1,503	1,873	1	41	41		34
677+53	- 678+12	MEDIAN	459	436	0	12	12		10
678+58	- 687+35	MEDIAN	4,615	5,508	3	125	125		104
687+94	697+23	MEDIAN	5,780	4,455	4	156	156		130
697+68	698+17	MEDIAN	411	287	0	11	11		9
US 53 SB									
692+40	- 698+80	RT	1,494	1,102	1	40	40		34
STH 77 EAST									
21+17	- 21+72	RT	765	626	0	21	21		17
21+17	21+54	LT	511	366	0	14	14		12
STH 77 WEST	-								
8+19	- 9+73		728	588	0	20	20		16
UNDISTR	IBUTED				2	91	91	30	70
		TOTAL 0010	16,266	15,241	12	530	530	30	435

**EROSION CONTROL** 

628.1504 628.1520 628.2004

6,186

628.7504 628.7555

TEMPORARY SILT FENCE EROSION MAT DITCH CULVERT PIPE MAINTENANCE CLASS I TYPE B CHECKS CHECKS (ROCK BAGS)

150

15

SHEET

FENCE STATION TO STATION LOCATION SY EACH LF US 53 NB 676+90 - 683+60 RT TURN LANE 140 140 588 677+53 MEDIAN 400 119 64 - 678+12 400 MEDIAN 678+58 687+35 1,402 697+23 687+94 MEDIAN 1,719 56 697+68 698+17 MEDIAN 152 US 53 SB RT 587 698+80 692+40 STH 77 EAST 0 21+17 - 21+72 RT 196 LT 204 21+17 21+54 STH 77 WEST 189 8+19 - 9+65 UNDISTRIBUTED (25%) 135 135 1,030 30

675

PROJECT NO: 1195-01-76

HWY: USH 53

COUNTY: WASHBURN

MISCELLANEOUS QUANTITIES

PLOT NAME :

TOTAL 0010 675

PLOT BY: JARROD S. STARREN PLOT DATE : 11/10/2020 12:37 AM

Ε

1
- 4

Part	
Part	
1	DVC
1	
1	
1.	LLATION
Page	REMAIN
Section   Sect	
1-7	REMAIN
Part	
1-8	REMAIN
1-10   678-70   MB   83-14   83-864   MOLEFI CONSTRUCTION   1   9.00	
1-10	
1-15   1-15	
1-18   578-75   18   18   75   75   75   75   75   75   75   7	
14	
1.1	
115 6 68-25 N B 6-21 2/130 SUPERIOR DAMBUPL HOWAYDO SUPERIOR DAMBUPL HO	
1-15   82-25   R3-20	DEN AAINI
SEGNILEFT LUNN LANK RT   STATE   SEGNILEFT LUNN LANK RT   STATE   ST	
	A 075+00
FAST, STH 77 U TURN   SOUTH US 33   SUB- US   SUB- US 3   SUB- UB 3   SUB- U	A 676+50
Part	LLATION
CAST/STH 77/RIGHT ARROW SOUTH/US S3/RIGHT SOUTH ARROW SOUTH/US S3/RIGHT SOUTH ARROW SOUTH SA/RIGHT SOUTH ARROW SOUTH SA/RIGHT SOUTH SA/RIGHT SA/R	REMAIN
2-4   686+90   SB   R6-1R   35K12	
R1-2	
2-5 687+10 SB R6-1 R 36X12 ONE WAY LIT ONE WAY RT 1 3.00  2-6 687+50 SB R1-1 36X36 STOP 7.46  2-7 8+00 TH 77 83-53R 24 X 30 RIGHT TURN ONLY 1 5.00 TEWNST 1 2  2-7 8+00 TH 77 83-53R 24 X 30 RIGHT TURN ONLY 1 5.00 TEWNST 1 2  2-8 7+50 STH 77 J3-2 72X84 JCT STH 77/USS3 ARROWS 1 2  2-9 7+50 STH 77 J3-1 WEST STH 77  2-10 8+25 STH 77 J3-1 WEST STH 77  2-10 88+25 SB R1-1 STOP EXISTING 1 1 1 REM 2-12  2-11 688+25 SB R6-2 LR ONE WAY LITRT  2-12 688+25 SB R6-2 LR ONE WAY LITRT  2-13 688+25 SB R5-1 DO NOT ENTER  2-14 690+00 SB R5-1 DO NOT ENTER  2-15 691+00 SB R5-1 WRST STH 77  WEST STH 77  WES	
Ri-1	
2-6   687+50   58   R1-1   STOP   1   1   REMOVE BITTER   1   REMOVE BIT	
R6-3	CON POLE
2-8   7-50   STH 77   J3-2   7284   JCT STH 77/US53 ARROWS   JCT 77/53   2   42.00   EXISTING T	<del></del>
STR	LLATION
2-9         7+50         STH 77         J2-1         WEST STH 77         WEBB LAKE 18         EXISTING TO DANBURY 30           2-11         688+00         SB         R1-1         STOP         1         1         1         REM           2-12         688+25         SB         R6-2 L\R         ONE WAY LT\RT         2         1         REM           2-13         688+25         SB         J3-2         STH 77 / USH 53 / ARROWS         1         1         1         REM           2-14         690+00         SB         R5-1         DO NOT ENTER         1         EXITING TO STAIN S	
2-10   8+25   STH 77	
DANBURY 30   SB   R1-1   STOP   1   1   1   REM	
2-12     688+25     SB     R6-2 L\R     ONE WAY LT\RT     2     1     REM       2-13     688+25     SB     J3-2     STH 77 / USH 53 / ARROWS     1     1     1     1     REM       WEST STH 77       2-14     690+00     SB     R5-1     DO NOT ENTER     1     EXITING TO E	
2-13     688+25     SB     J3-2     STH 77 / USH 53 / ARROWS     1     1     1     1     REM       2-14     690+00     SB     R5-1     DO NOT ENTER     1     EXITING TO STAND TO	
WEST STH 77	
2-14       690+00       SB       R5-1       DO NOT ENTER       1       EXITING TO SIT ING T	VE
2-15 691+00 SB R5-1A WRONG WAY  2-16 692+50 SB J3-2 EAST\ STH 77 \ LT ARROW  WEST\ STH 77 \ RT ARROW	DEMAIN
2-16 692+50 SB J3-2 EAST\STH 77 \ LT ARROW  WEST\STH 77 \ RT ARROW	
WEST\ STH 77 \RT ARROW	
	LICIVITATIV
2-17 033+30 3D N3-20N DEGINEEL FAMIOW	IG OF TURN LAN
2-18 693+50 SB R3-20R BEGIN LEFT ARROW LT ARROW 1 1 MOVE TO BEGINN	
SUBTOTAL 13 15 1 336.97 117 4 7 6 5	

PERMANENT SIGNING

# PERMANENT SIGNING (CONT'D)

634.0816

634.0616

634.0618

NO	STATION I	LOCATION	CODE	SIZE (INCHES)	MESSAGE	POSTS WOOD 4X6- INCH X 16-FT EACH	POSTS WOOD 4X6-INCH X 18-FT EACH	POSTS TUBULAR STEEL 2X2-INCH X 16-FT EACH	SIGNS TYPE II REFLECTIVE H SF		MOVING SIGNS TYPE II EACH	REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH	MOVING SMALL SIGN SUPPORTS EACH	REMARKS
-19	683+10	NB	J3-1	36X84	WEST\ STH 77 \RT ARROW		2		21.00						
-20	683+20	NB	R5-1A		WRONG WAY										EXISTING TO REMAIN
-21	685+25	NB	R5-1		DO NOT ENTER										EXISTING TO REMAIN
-22	686+75	NB	J3-2	36X84	NORTH\ US 53 \ RT ARROW							1	1		
					STH 77 \ AHEAD ARROW										
-23	686+75	NB	R6-2 L\R									2	1		REMOVE
			R6-2 L\R		ONE WAY LT\RT										REMOVE
-24	687+00	NB	R1-1		STOP							1	1		REMOVE
-25	686+50	NB	J3-2	72X84	EAST\ STH 77 \ RT ARROW		2		42.00						
					WEST\ STH 77 \LT ARROW										
-26	687+50	NB	R1-2	36x31	YIELD	2			3.88						
			R6-1 L	36X12	ONE WAY RT				3.00						
-27	20+35	STH 77	R1-1		STOP							1	1		REMOVE
			R6-3		DIVIDED HIGHWAY							1			
-28	22+10	STH 77	J2-1		EAST STH 77										EXISTING TO REMAIN
-29		STH 77			SPEED LIMIT 35										EXISTING TO REMAIN
-30		STH 77	J1-2		JCT\US 53\LT ARROW	1			13.00						
-31	21+70	STH 77	R3-53R	24 X 30	RIGHT TURN ONLY	1			5.00						
-32	21+60	STH 77	R6-2 L	36X12	ONE WAY RT	1			3.00						
			R1-1	36X36	STOP				7.46						
-33	688+50	NB	R6-2 L\R		ONE WAY LT\RT							1	1		REMOVE
	000.50	110	R6-2 L\R		ONE WAY LT\RT							1	_		REMOVE
-35	688+50	NB	J3-3	108X84	SOUTH/US 53/RIGHT ARROW		2		63.00						TIEITIOVE
					WEST/STH 77/RIGHT ARROW		_		00100						
					NORTH/US 53/RIGHT ARROW										
-36	692+50	NB	J1-1	36X57	NORTH US 53										EXISTING TO REMAIN
-37	692+00	NB	J3-3	108X84	SOUTH\ US 53 \U TURN		2		63.00						EXISTING TO REIVINITY
-				2007101	WEST\ STH 77 \U TURN				00.00						
					NORTH\ US 53 \AHEAD ARROW										
-38	692+60	NB			WALLACE ST										EXISTING TO REMAIN
-39	691+50	SB		78X21	MINONG LT	2			11.38						
-40	683+00	NB		78X12	MINONG RT	2			11.38						
-42	692+50	SB	J3-1	36X84	EAST \ STH 77 \ LT ARROW				11.50						
-1	695+50	SB	R6-2L		SUPERIOR, DANBURY, HAYWARD						1			1	MOVE
3-2	698+10	35	22	114X72	LT ARROW 77WEST USE FAR		3		57.00		_			-	.VIO V L
_	330.10			11/1/2	RIGHT LANE LT ARROW 53		5		37.00						
-3	698+05	SB	R6-2L	24x30	ONE WAY LT	1			5.00						•
-4	698+10	SB	R6-1L	36X12	ONE WAY LT	_	1		3.00						
	330.10	33	R1-2	48X42	YIELD		_		7.00						
3-5	698+10	SB	R5-1	36x36	DO NOT ENTER	1			9.00						
3-6	698+25	SB	R3-18	36x31	NO LEFT / U TURN SYMBOL	1			6.88						
i-7	699+00	SB	R5-1	36x36	DO NOT ENTER	1			9.00						
3-8	701+00	SB	J2-2	72X84	WEST/STH77/AHEAD LT ARROW	_	2		5.00						EXISTING TO REMAIN
	,01100	35	J	, 2,70-	EAST/STH77/AHEAD RT ARROW		2								ENGING TO KEWAIN
-9	701+30	SB	R5-1A	42X30	WRONG WAY	1			8.75						
-10	/ OT +20	SB	I/O-TW		WATCH FOR TURNING VEHICLES	тт	2		58.50						
-10		SB		1007/0	NEXT 1\2 MILE		2		58.50						
	696+00	SB	J3-2	72X84	SOUTH\ US 53 \U TURN		2		42.00						
12	030700	סכ	12-5	/ ∠ ∧ 0 4	WEST\ STH 77 \U TURN		۷		42.00						
					SUBTOTAL	14	20	0	511.73	0	1	8	5	1	
					TOTAL 0010	27	35	1	848.70	117	5	15	11	6	
									0/0///						

FILE NAME : P:\UZ\W\WITNW\152345\C3D\\$HEETSPLAN\030201-MQ.DWG LAYOUT NAME - 030205-mq

PROJECT NO: 1195-01-76

PLOT DATE : 11/10/2020 3:08 AM

MISCELLANEOUS QUANTITIES PLOT BY: JARROD S. STARREN

PLOT NAME :

WISDOT/CADDS SHEET 42

SHEET

E

HWY: USH 53

COUNTY: WASHBURN

637.2210 637.2230 638.2102 638.2602 638.3000 638.4000

			-	FIELD (  CATEGORY  0010	DFFICE  642.5201  FIELD OFFICE  TYPE C  EACH  1					TRAFFIC CONTRO DRUMS DAY 17,020 19,504 14,444	L BARRICADES TYPE III DAY 3,036 920 2,852	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY  6,072 1,840 5,704	TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY  6,440 3,588 5,336	TRAFFIC CONTROL ARROW BOARDS DAY 184 184 184	TRAFFIC CONTROL SIGNS DAY  3,496 3,496 3,496 10,488	TRAFFIC COI SIGNS PCMS CELLULA COMMUNICA DAY 14 14 0	NTROL MA	.,320 S	MARKS FAGE 1 FAGE 2 FAGE 3	
676+5 20+00 V 7+50 W 687	VIS 77 - 22+52 WIS 7 'IS 77 - 10+00 WIS 7 +55'NB' CROSSOVER 3'NB - 698+50'NB' 0'SB' - 687+00'SB'	LOCATION  LT\RT  LT\RT  LT\RT  LT\RT  LT\RT  LT\RT  LT\RT	2,965 341 582 - 2,253 2,262 2,503 500	B 646.1545  MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH LF  300 278 250 313 1,113 - 2,253	PAVE  E 646.3020  MARKING LINE EPOXY 8-INCH LF  664 886 - 75 57  1,682	MARKING LINE GROOVED WET REF CONTRAST	MARKING ARROW EPOXY EACH  2	I 646.6120 MARKING STOP LINE EPOXY 18- INCH LF - 28 30 - - - - - -	G 646.6220  MARKING YIELD LINE EPOXY 18- INCH EACH  44 31 36 111		REMARKS  INCLUDES LT TURI INCLUDES LT TURI	I	Y STATIO US 53 I 677+5 676+9 687+9 687+6 77 EA: 20+2 20+2 US 53 678+6 688+9 692+4 77 WE 8+18	60 6 60 - 6 60 6 65 6 68 6 67 4 4 4 4 4 60 6 60 60 6 60 6 6	80+00 83+55 97+19 97+19 90+60 21+70 21+70 87+56 97+48 98+04 9+72	LOCATION  LT RT LT LT LT LT RT  RT RT RT RT RT TOTAL 0010	STAKIN  650.4500  CONSTRUCTION  STAKING  SUBGRADE  LF  115  670  760  775  87  210  220  760  850  645  225  5,317	<b>6</b> 50.5000	7 650.9920 CONSTRUCTION STAKING SLOPE STAKES LF  115 670 760 775 87  210 220  760 850 645  225	REMARKS  R-CUT TURN LANE TURN LANE TURN LANE R-CUT  TURN LANE TURN LANE TURN LANE
		_		TRAFFIN TO STATION - 698+00		1	: 								TO STATIO - 679+1:		CONS ELECTF (119 ON	650.8500.01  FRUCTION STAKING ICAL INSTALLATIONS 5-01-76) (01. TBD) LS  1	-	

PLOT NAME :

# **STAKING**

650.9910.01

CONSTRUCTION STAKING

SUPPLEMENTAL CONTROL

(1195-01-76) Y STATION TO STATION LOCATION LS 676+90 - 698+00 1

TOTAL 0010

PULL BOXES

653.0154 653.0164 PULL BOXES NON- PULL BOXES NON-CONDUCTIVE CONDUCTIVE 24X36-INCH 24X42-INCH LOCATION EACH EACH

LPB1 LPB2 LPB3 LPB4 LPB5 LPB6 LPB7 LPB8 LPB9 LPB10 LPB11 LPB12 LPB13 LPB14 LPB15 LPB16

<u>POLES</u>

	654.0106 CONCRETE	657.0255 TRANSFORMER BASES	657.0327	657.0715 LUMINAIRE ARMS TRUSS	659.1120
	BASES	BREAKAWAY 11	POLES TYPE 6-	TYPE 4 1/2-	LUMINAIRES
	TYPE 6	1/2-INCH BOLT	ALUMINUM	INCH CLAMP 15-	UTILITY LED B
LOCATION	EACH	EACH	EACH	EACH	EACH
A-1	1	1	1	1	1
A-2	1	1	1	1	1
A-3	1	1	1	1	1
A-4	1	1	1	1	1
A-5	1	1	1	1	1
A-6	1	1	1	1	1
A-7	1	1	1	1	1
A-8	1	1	1	1	1
A-9	1	1	1	1	1
A-10	1	1	1	1	1
TOTAL 0010	10	10	10	10	10

CONDUIT

				652.0225	652.0235	652.0605	655.0610	655.0620
				CONDUIT RIGID	CONDUIT RIGID		ELECTRICAL	ELECTRICAL
				NONMETALLIC	NONMETALLIC	CONDUIT	WIRE	WIRE
				SCHEDULE 40 2-	SCHEDULE 40 3-	SPECIAL 2-	LIGHTING 12	LIGHTING 8
				INCH	INCH	INCH	AWG	AWG
STATION	TO	STATION	LOCATION	LF	LF	LF	LF	LF
A-2	-	A-3		54			180	192
A-3	-	LPB7		102			180	336
LPB7	-	LPB6		199				627
LPB6	-	LPB5		199				627
LPB5	-	LPB4		198				624
LPB4	-	A-4		102				336
A-4	-	LPB3		64			180	222
A-9	-	LPB3		39			180	294
LPB3	-	LPB2			95			315
LPB2	-	A-1		16				78
A-1	-	LPB1		117			180	381
LPB1	-	LCC-A				30		150
A-6	-	A-7		43			180	159
A-7	-	LPB14		130			180	420
LPB14	-	LPB13		203				639
LPB13	-	LPB12		202				636
LPB12	-	LPB11		201				633
LPB11	-	A-8		120				390
A-5	-	LPB8		28			180	114
LPB8	-	LPB9			73			249
LPB9	-	A-10		61				213
A-10	-	LPB-10		59			180	207
A-8	-	LPB10		36			180	276
LPB10	-	LPB15			120			390
LPB15	-	LPB16		145				465
LPB16	-	LPB1		61				213
LPB16	-							
			TOTAL 0010	2,379	288	30	1,800	9,186

Ε HWY: USH 53 COUNTY: WASHBURN MISCELLANEOUS QUANTITIES SHEET PROJECT NO: 1195-01-76 PLOT NAME :

\\SEHCF1\PROJECTS\UZ\W\WITNW\152345\C3D\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 030207-mq FILE NAME :

TOTAL 0010

PLOT DATE : 7/30/2020 7:08 PM

PLOT BY: NICK ENGH

WISDOT/CADDS SHEET 42

				690.0150 SAWING	690.0250 SAWING
				ASPHALT	CONCRETE
STATION	ТО	STATION	LOCATION	LF	LF
US 53 NB					
676+90	-	683+60	RT	685	
677+90	-	683+65	LT	600	
686+45		689+15	RT	275	
686+45		689+05	LT	1,190	
US 53 SB	-				
679+13	-	689+45	RT	1,220	
686+14	-	687+63	LT	160	
691+70	-	698+35	RT	680	
692+38	-	698+80	LT	660	
STH 77 WEST					
8+20	-	9+85	RT	100	
9+00	-	9+62	LT	185	
STH 77 EAST	-				
20+70	-		LT/RT	32	5
	-				
		TOTA	L 0010	5,787	5

HWY: USH 53

SHEET Ε MISCELLANEOUS QUANTITIES

FILE NAME : P:\UZ\W\WITNW\152345\C3D\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 030208-mq

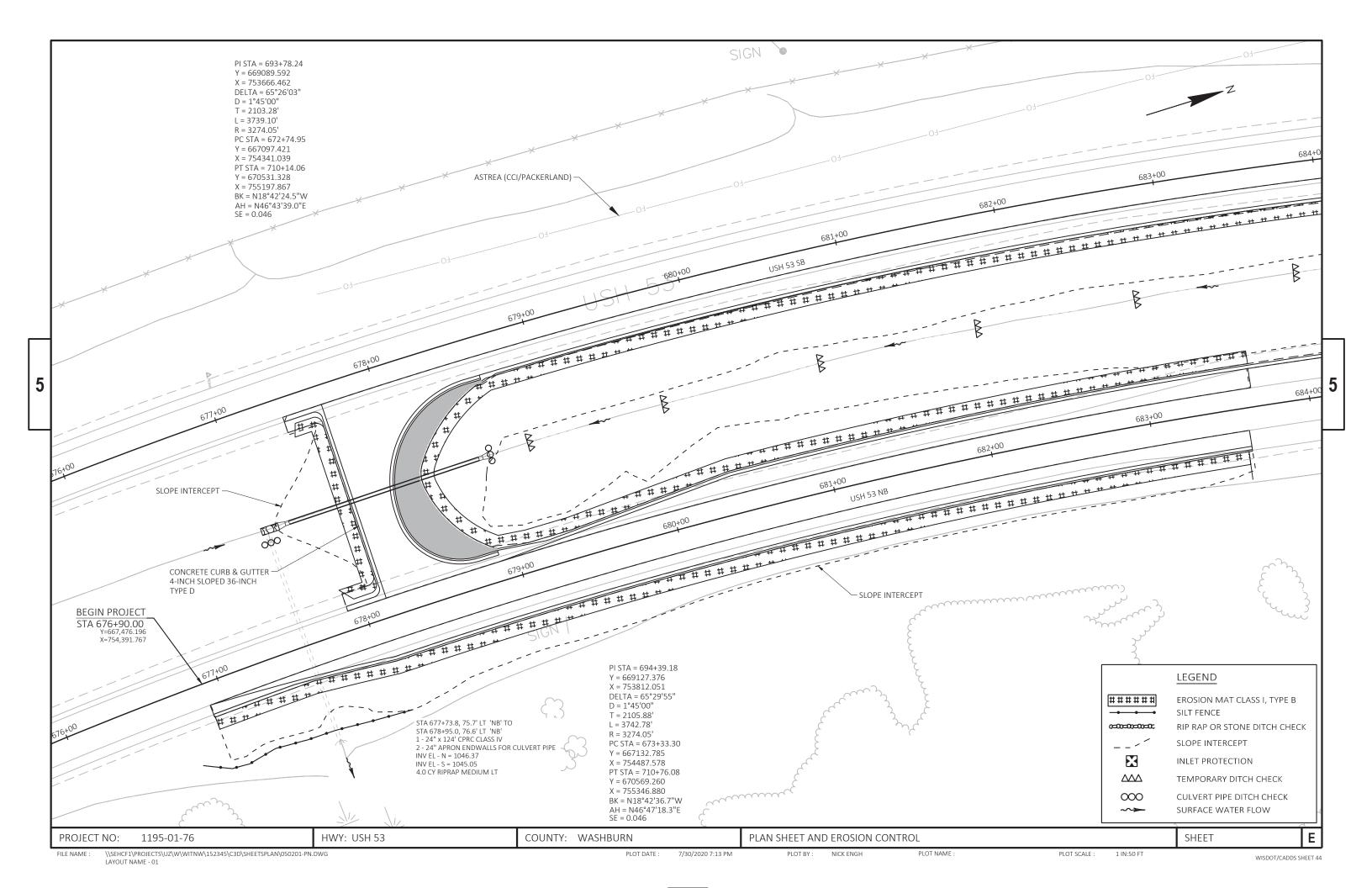
PROJECT NO: 1195-01-76

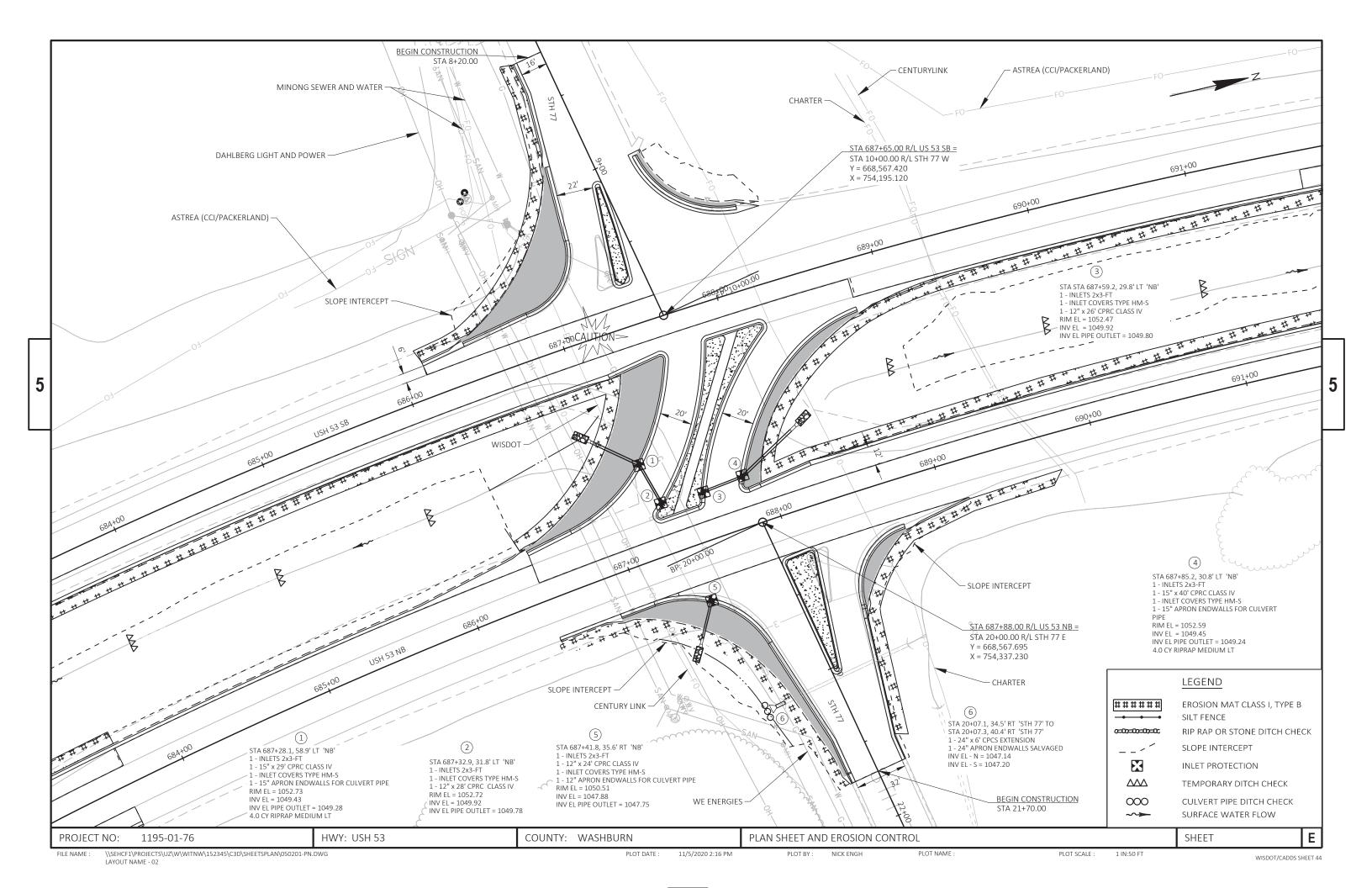
PLOT DATE : 7/31/2020 1:32 AM

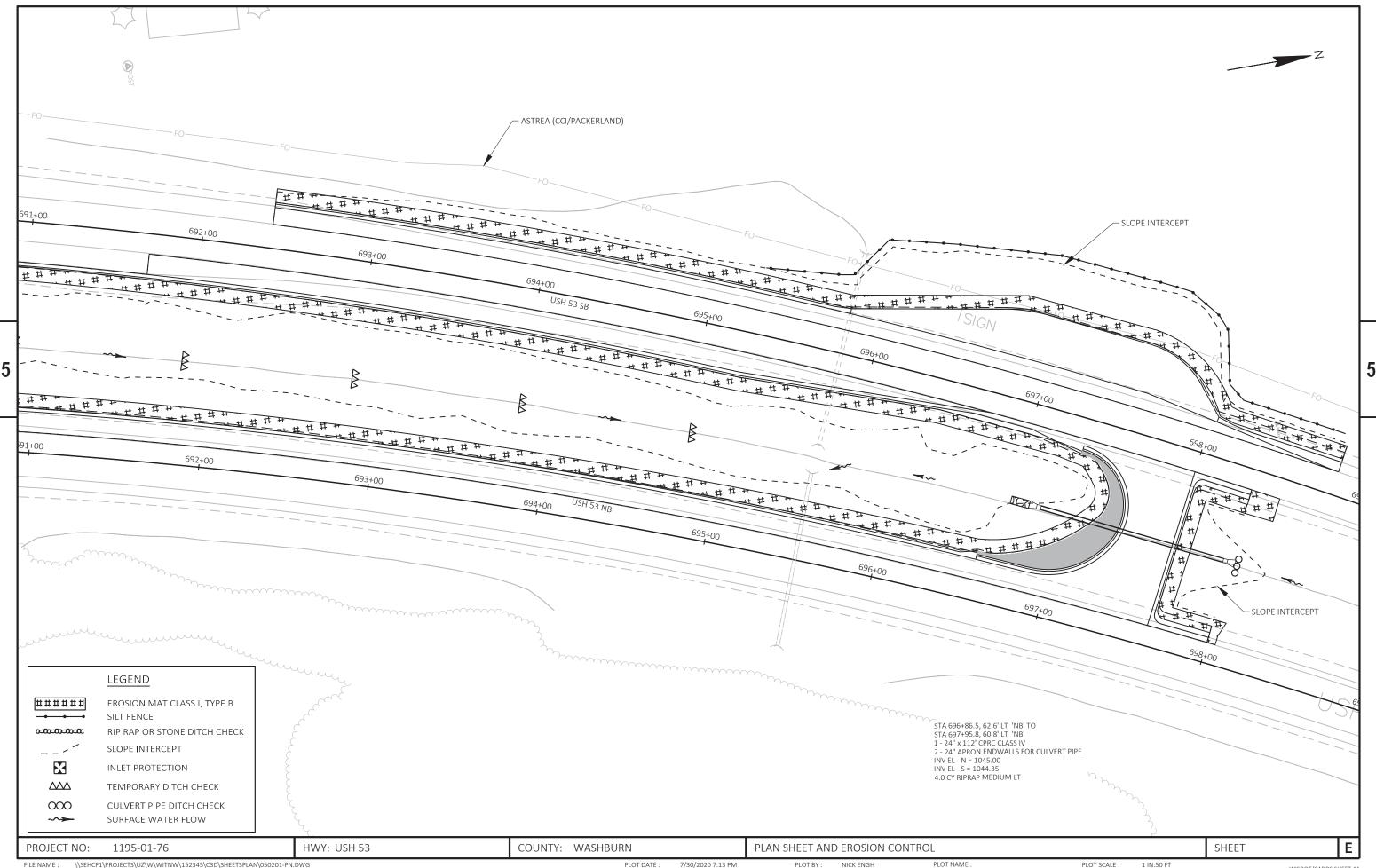
COUNTY: WASHBURN

PLOT BY: JARROD S. STARREN

PLOT NAME :





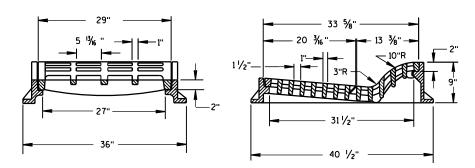


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# Standard Detail Drawing List

08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-21A	CONCRETE CURB & GUTTER
08D01-21B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
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
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08E15-01	CULVERT PI PE CHECK
	APRON ENDWALLS FOR CULVERT PIPE
08F01-11	
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
09B02-10	CONDUIT
09B16-01	PULL BOX NON-CONDUCTIVE
09002-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09003-04	TRANSFORMER/PEDESTAL BASES
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-03	LIGHTING CONTROL CABINET 120/240 VOLT
09E01-15E	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 6 (35 FEET)
09E02-05	FREEWAY LIGHTING UNIT POLE WIRING
11B02-02	CONCRETE MEDI AN NOSE
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A04-05A	FLEXIBLE DELINEATOR POST
15A04-05B	DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A04-05C	DELINEATOR POST WITH REFLECTIVE SHEETING
15C03-05	BARRI CADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-04	MEDIAN ISLAND MARKING
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C20-02	YI ELD MARKI NG
15C27-03B	PAVEMENT MARKING (ISLANDS)
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D12-08B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D21-06A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-06B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D29-06	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING

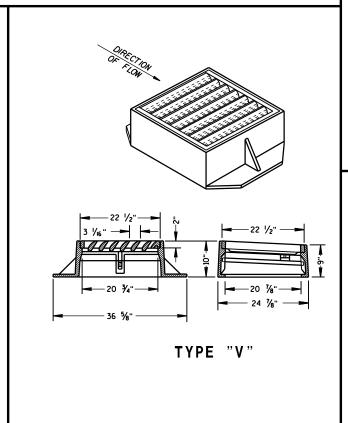
6



TYPE "F"

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

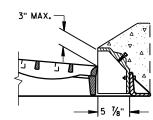
# 25 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 25 ½" 23 ½" 25 ½" 25 ½" 26 ½" 27 ½" 28 ½" 28 ½" 29 ½" 20 ½"



# 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.

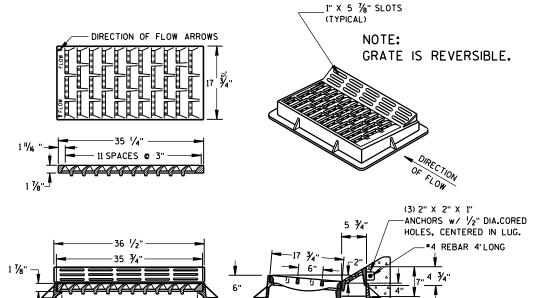
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



# 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

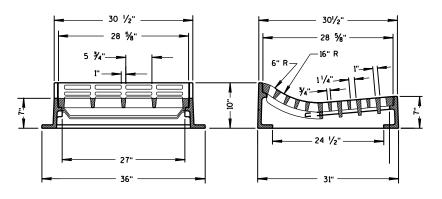
NOIE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE



# 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.



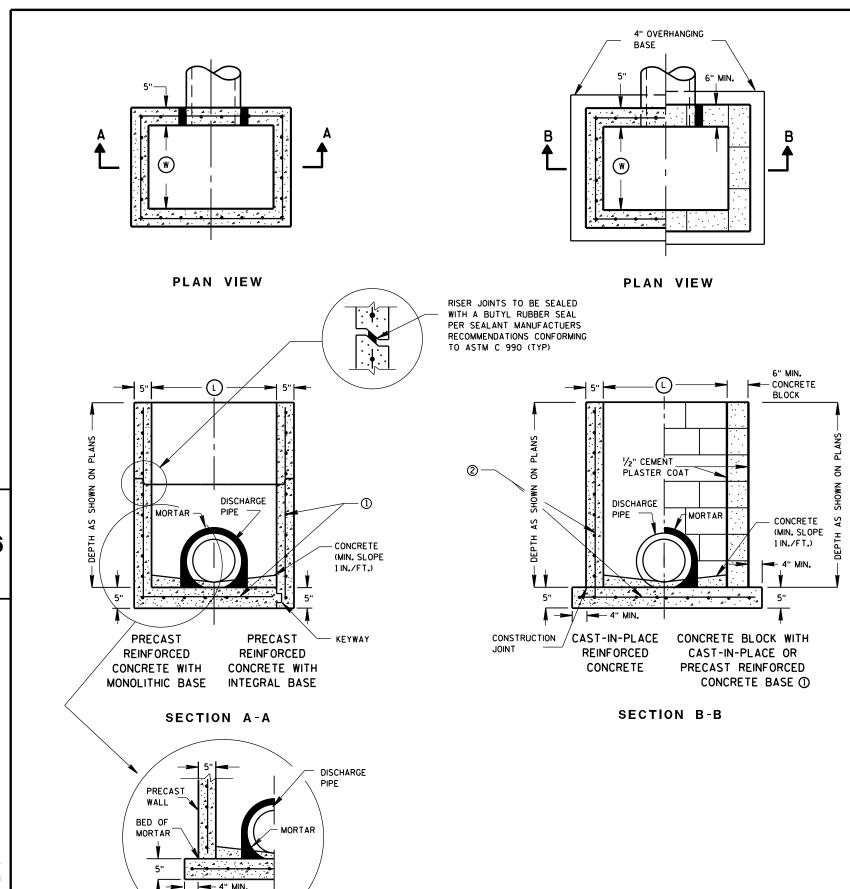
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

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

A 5-19

D.D. 8



# **GENERAL NOTES**

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

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

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

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

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

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

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

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.

OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

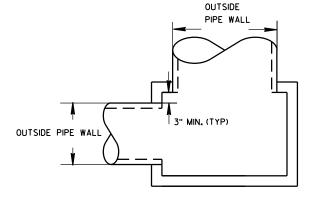
- ① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- ② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

# INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	т	٧	WW
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	Х	Х				Х		х	
2X2.5-FT	2	2.5			Х			Х	Х	Х	Х
2X3-FT	2	3					Х	·			·
2.5X3-FT	2.5	3				Х					

#### PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER				
INLET SIZE	WIDTH (IN)	LENGTH (IN)			
2X2-FT	12	12			
2X2.5-FT	12	18			
2X3-FT	12	24			
2.5X3-FT	18	24			



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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APPROVED

Sept...2016 /S/ Rodney Taylor

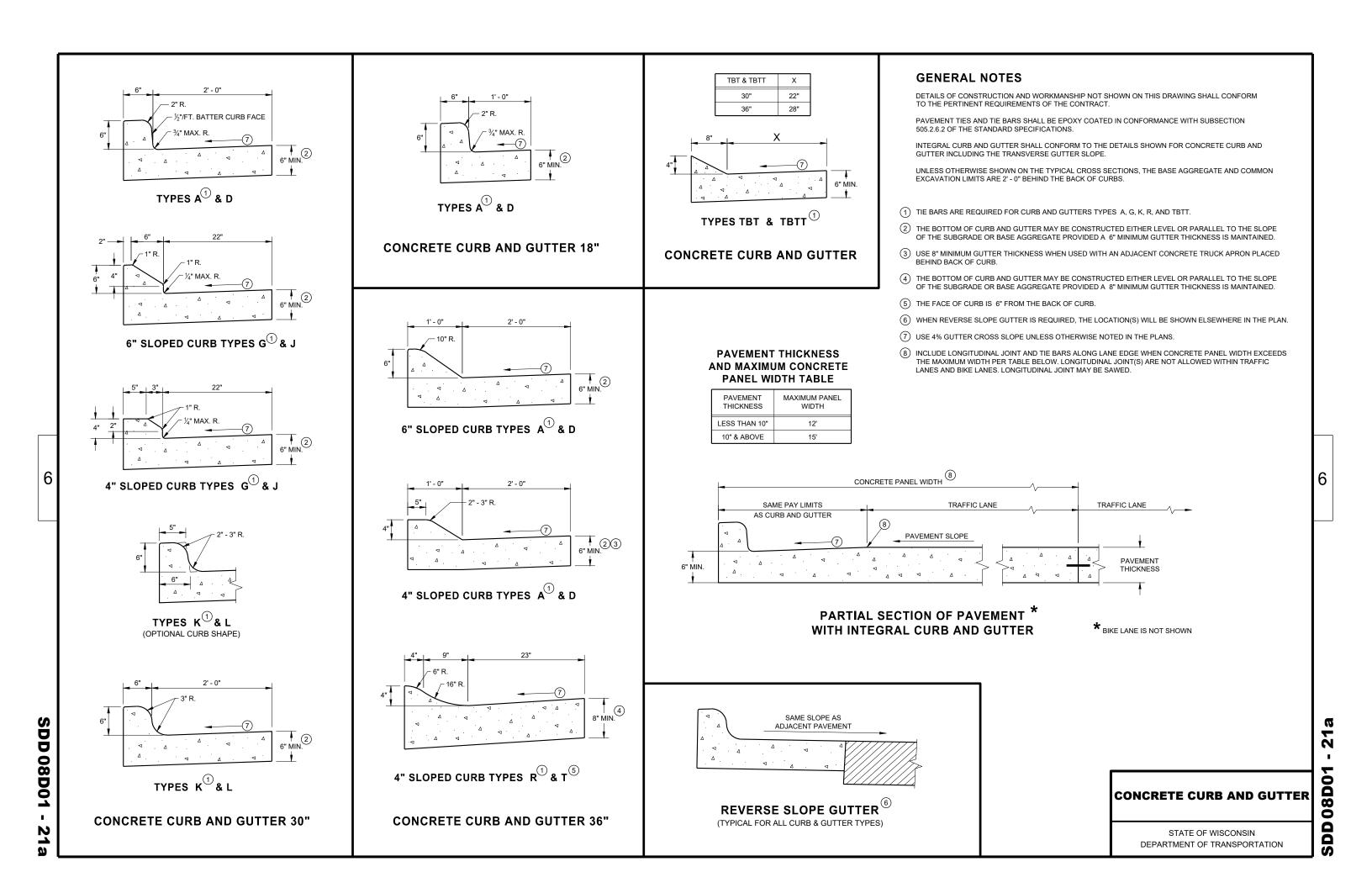
DATE ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

SEPARATE PRECAST REINFORCED

**CONCRETE BASE OPTION** 

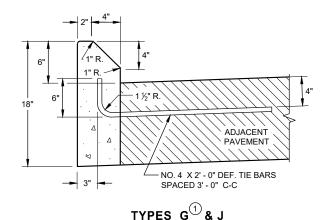


# **DETAIL OF CURB AND GUTTER AT INLETS**

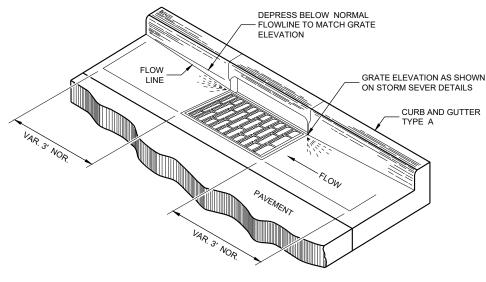
(TYPICAL H INLET COVER SHOWN)

½"/FT. BATTER, FACE OF CURB (ABOVE ADJACENT PAVEMENT) ADJACENT PAVEMENT - NO. 4 X 2' - 0" DEF. TIE BARS

TYPES A D



**CONCRETE CURB** 



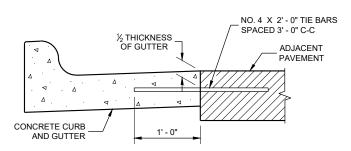
# **GENERAL NOTES**

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

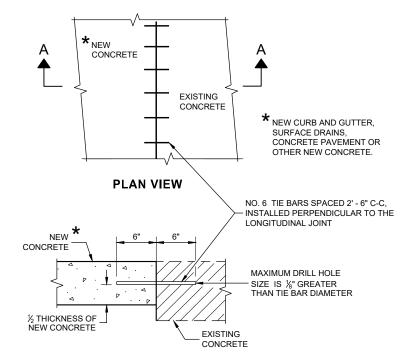
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'- 0" BEHIND THE BACK OF CURBS.

- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- 2 THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- 9 REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

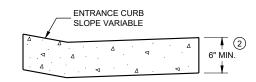


TYPICAL TIE BAR LOCATION  $^{\scriptsize \textcircled{1}}$ 



SECTION A - A

**TIE BARS DRILLED** INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB® (WHEN DIRECTED BY THE ENGINEER)

# **CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS**

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**08DO**,

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED /S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
ENGINEER February 2020 DATE

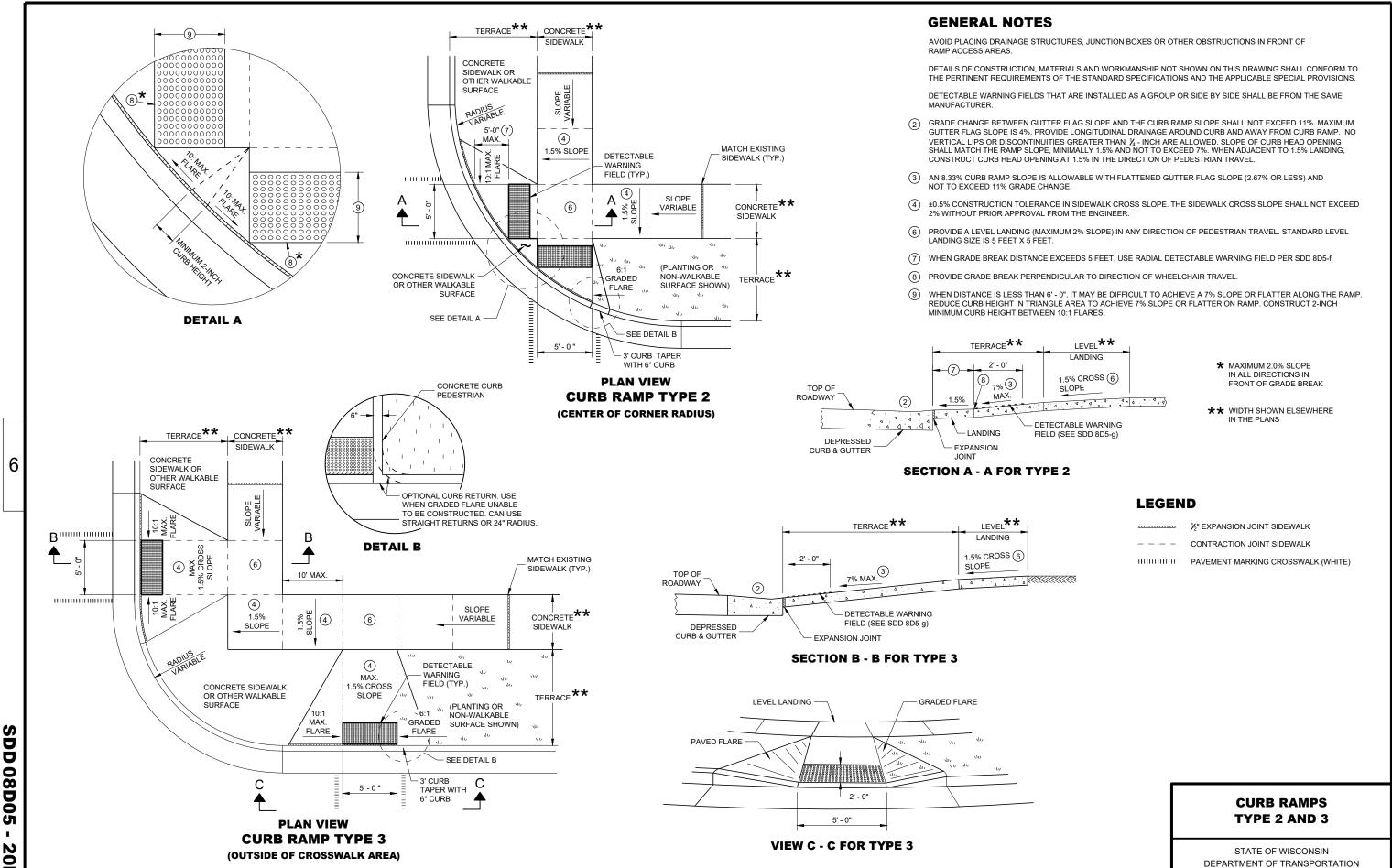
**VIEW D - D FOR TYPE 1 - A** 

**SECTION B - B FOR TYPE 1** 

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STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

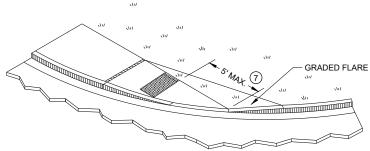


- 20b

.DD 08D05 - 2

**SDD 08D05** 

**ISOMETRIC VIEW FOR TYPE 4A** 



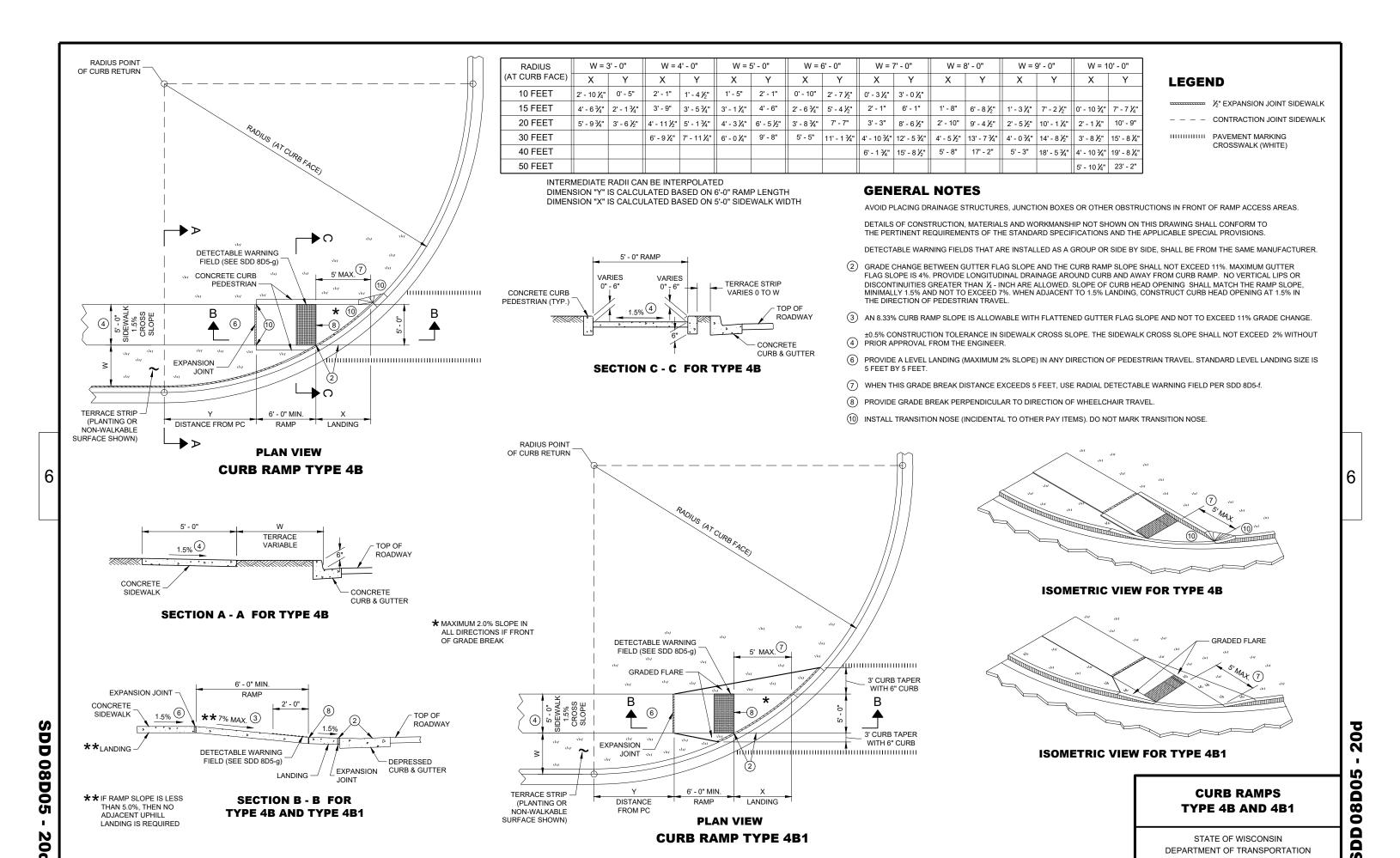
**ISOMETRIC VIEW FOR TYPE 4A1** 

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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DEPARTMENT OF TRANSPORTATION

**SDD 08D05** 

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ÖD 08D05

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IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

\*\*\*\*
LANDING RADIAL DETECTABLE WARNING **DEPRESSED CURB & GUTTER** FIELD (SEE SDD 8D5-a)

> \*\*\* MAXIMUM 8.33% **SECTION B - B FOR TYPE 4B1**

# RADIAL DETECTABLE WARNING **FIELD APPLICATIONS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

	, A	- IVAN	'II'
	В		0
A B			0
	PL	AN VIEW	Ī
<del></del>	c <del> -</del> -		

RAMP



**ELEVATION VIEW** 

# **TRUNCATED DOMES DETECTABLE WARNING PATTERN DETAIL**

MIN.

1.6"

0.65"

\*

0.9"

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

В

С

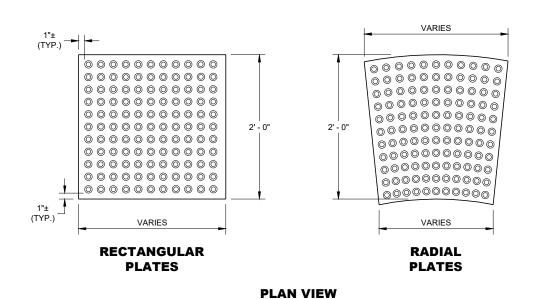
MAX.

2.4"

1.5"

\*

1.4"

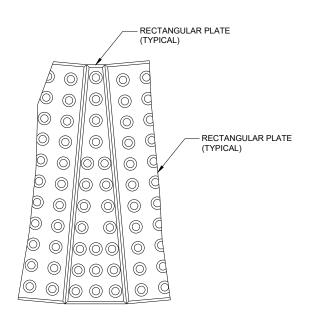


**DETECTABLE WARNING FIELDS (TYPICAL)** 

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

RADIAL PLATE

CURB RAMP



**PLAN VIEW RADIAL WEDGE PLATE CONNECTION DETAIL** 

# **CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES**

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER. PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION. FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

**GENERAL NOTES** 

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.

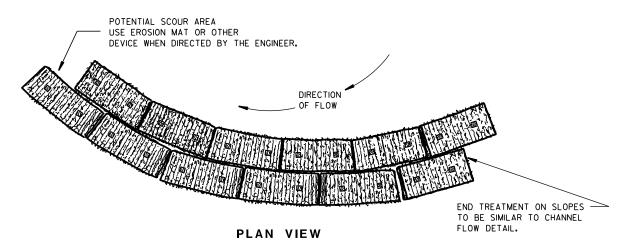
DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES, CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(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.

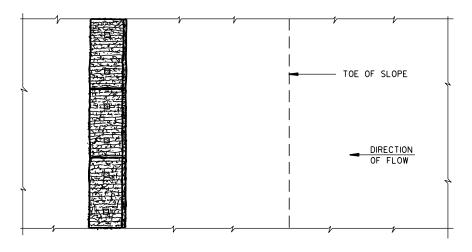
# **GENERAL NOTES**

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

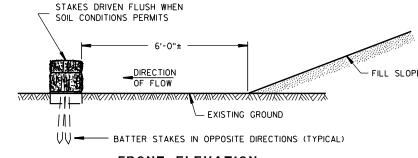
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



# **PLAN VIEW**



#### FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

**EROSION BALES FOR SHEET FLOW** 

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

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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# TYPICAL APPLICATION OF SILT FENCE

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# PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



# **GENERAL NOTES**

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

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INLET PROTECTION, TYPE A

# **GENERAL NOTES**

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

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

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

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



# INLET PROTECTION, TYPE C (WITH CURB BOX)

# **INSTALLATION NOTES**

# TYPE B & C

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

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

#### TYPE D

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

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

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

# INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

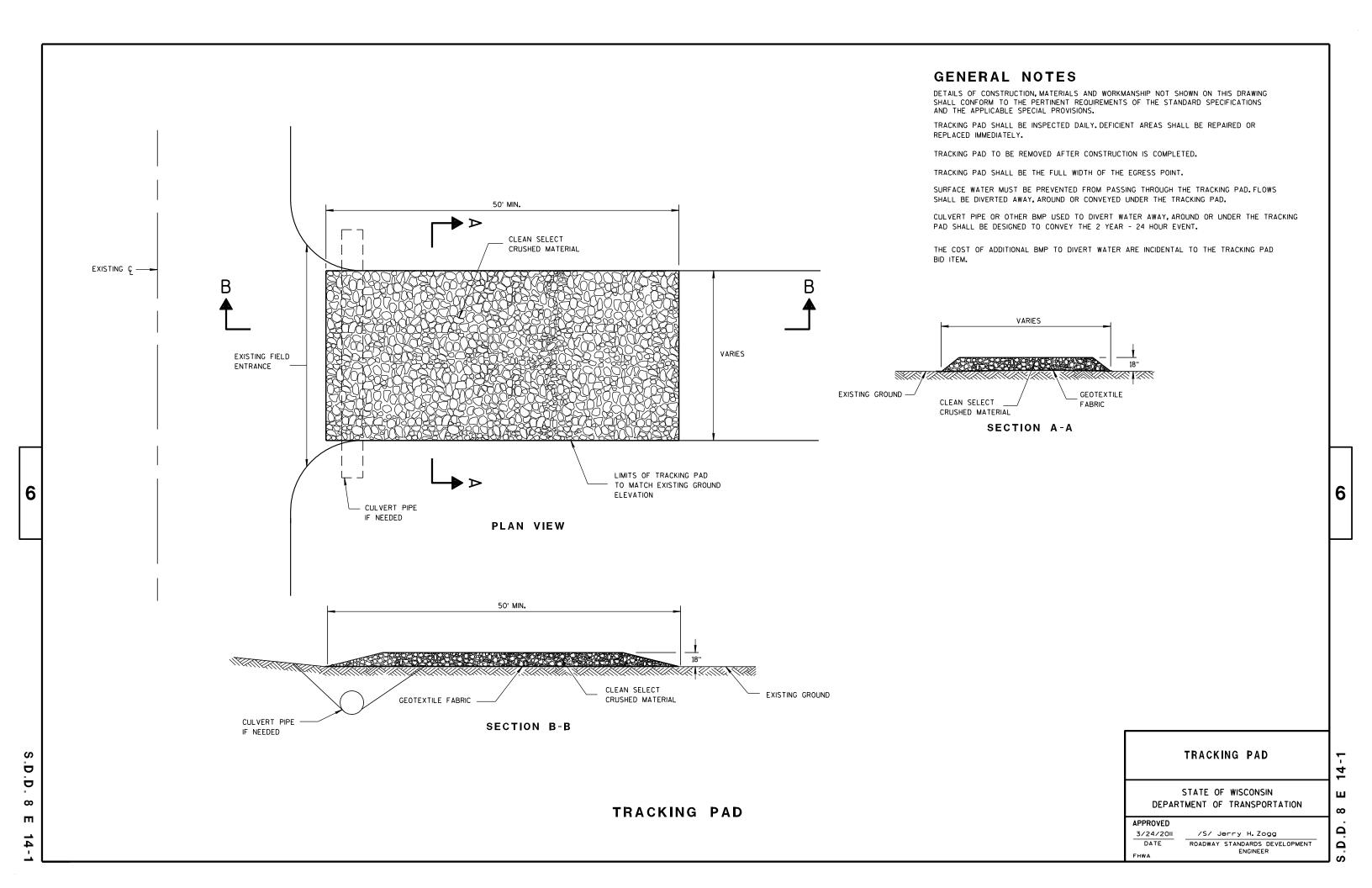
10/16/02

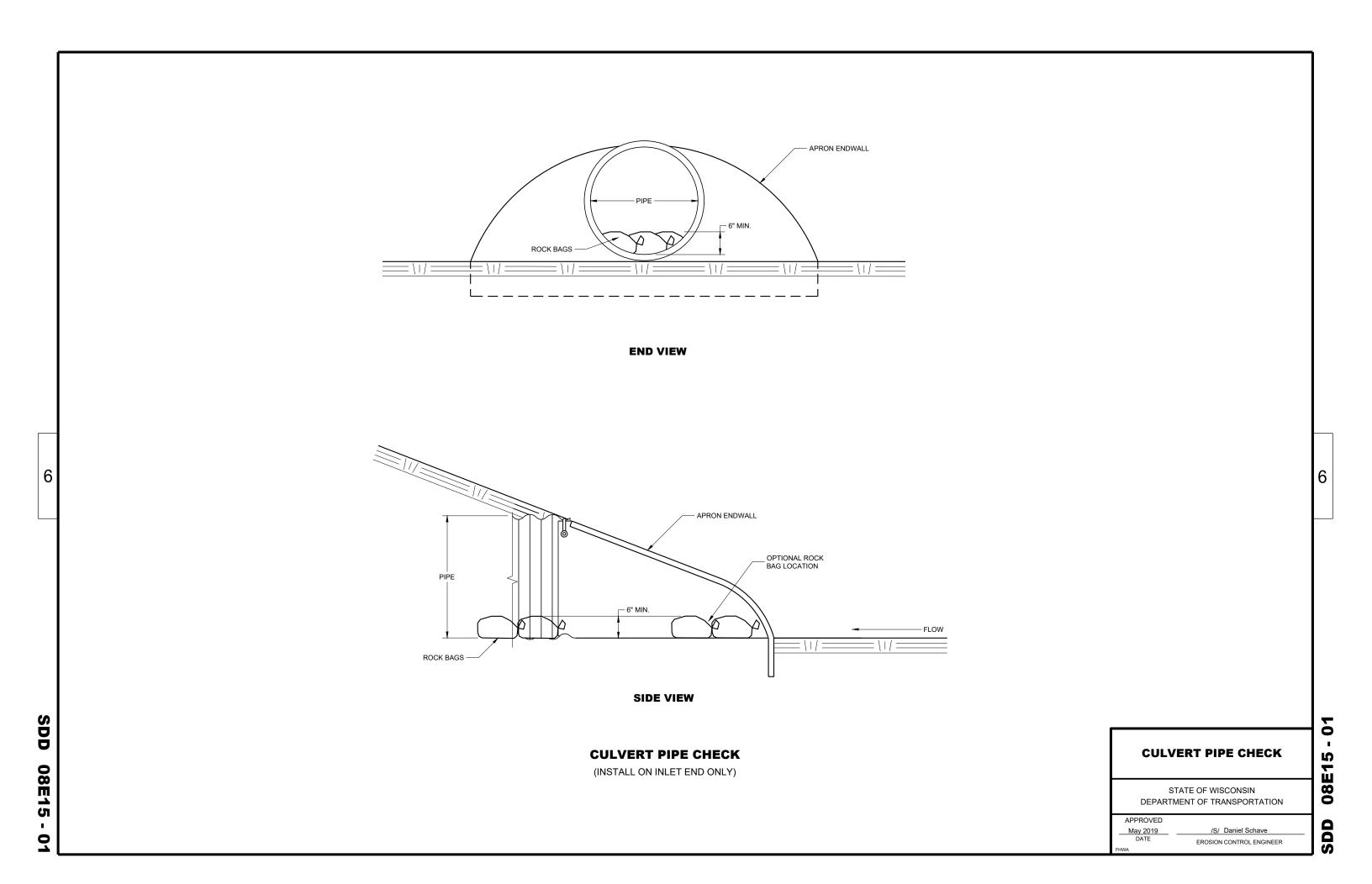
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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METAL APRON ENDWALLS											
PIPE	MIN. 1	THICK.			DIMENS	SIONS (II	nches)			APPROX.	
DIA.	(Incl		A	В	Н	L	Li	L2	W	SLOPE	BODY
(IN.)	STEEL	ALUM.	(±]")	(MAX.)	(±]")	(±1½")	①	0	(±2")		
12	.064	.060	6	6	6	21	12	171/2	24	21/2+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	21/2+o 1	1Pc.
18	.064	.060	8	10	6	31	15	28 <sup>1</sup> / <sub>4</sub>	36	$2\frac{1}{2}$ to 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	$2\frac{1}{2}$ to 1	1Pc.
24	.064	<b>.</b> 075	10	13	6	41	18	371/4	48	2½+o 1	1Pc.
30	.079	<b>.</b> 075	12	16	8	51	18	521/4	60	21/2 to 1	1Pc.
36	.079	<b>.</b> 105	14	19	9	60	24	59¾	72	2½+o 1	2 Pc.
42	.109	<b>.</b> 105	16	22	11	69	24	75 1/8	84	$2\frac{1}{2}$ to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 <sup>1</sup> / <sub>4</sub> +o 1	3 Pc.
54	.109	<b>.</b> 105	18	30	12	84	30	851/2	102	21/4+0 1	3 Pc.
60	.109×	.105×	18	33	12	87		_	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	11/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87		_	150	1½+o 1	3 Pc.

\* EXCEPT CENTER PANEL

SEE GENERAL NOTES

PLAN VIEW

END VIEW

SIDE ELEVATION

METAL ENDWALLS

SHOULDER

SLOPE

	REINFORCED CONCRETE APRON ENDWALLS									
PIPE		DIMENSIONS (Inches)								
DIA.	T	A	В	С	D	E	G	APPROX. SLOPE		
12	2	4	24	48 1/8	721/8	24	2	3 to 1		
15	21/4	6	27	46	73	30	21/4	3 to 1		
18	$2\frac{1}{2}$	9	27	46	73	36	21/2	3 to 1		
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1		
24	3	91/2	431/2	30	731/2	48	3	3 to 1		
27	31/4	101/2	$49^{1/2}$	24	731/2	54	31/4	3 to 1		
30	31/2	12	54	193⁄4	731/2	60	31/2	3 to 1		
36	4	15	63	34¾	97¾	72	4	3 to 1		
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1		
48	5	24	72	26	98	84	5	3 to 1		
54	51/2		65	* ** 33 <sup>1</sup> / <sub>4</sub> -35	* 98 <sup>1</sup> / <sub>4</sub> - 100	90	51/2	2% to 1		
60	6	* ** 30-35	60	39	99	96	5	2 to 1		
66	61/2		* ** 72-78	* * * 21-27	99	102	51/2	2 to 1		
72	7	* ** 24-36	78	21	99	108	6	2 to 1		
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1		
84	8	36	901/2	21	1111/2	120	61/2	11/2+0 1		
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1		

\*MINIMUM

PLAN

END VIEW

END SECTION

GROOVED END ON OUTLET END SECTION TONGUE END ON INLET END SECTION

BAR OR STEEL FABRIC

REINFORCEMENT

LONGITUDINAL SECTION

CONCRETE ENDWALLS

OPTIONAL

1 1/2" R

CULVERT

MEASURED LENGTH

OF CULVERT (TO-

NEAREST FOOT)

DESIGN

REINFORCED

SECTION A-A)

END CORNER PLATES MAY

BE FASTENED TO APRON

THE SURFACES TIGHTLY

TOGETHER

PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD

TOE PLATE (SAME THICKNESS

AND METAL AS APRON) SHALL

BE FURNISHED WHEN CALLED

FOR ON THE PLANS

FDGE (SFE

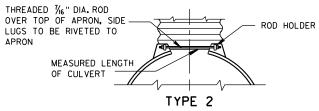
END SECTION CONNECTOR STRAP LUG

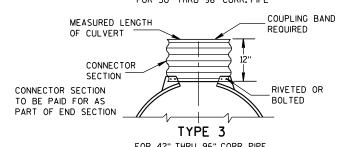
1" WIDE, 12 GA. (0.109"

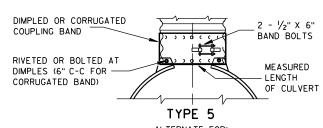
THICK) GALVANIZED STRAP

WITH STANDARD 6" X 1/2" BAND BOLT AND NUT

TYPE 1 FOR 12" THRU 24" CORR. PIPE





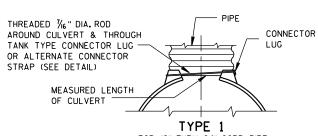


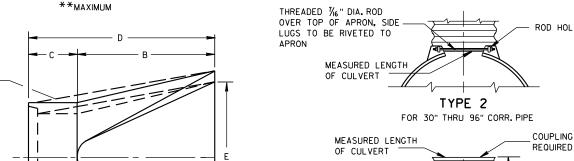
ALTERNATE FOR: ALL SIZES CORRUGATED CIRCULAR PIPE

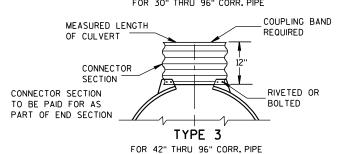
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

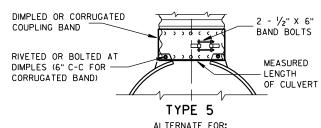
CONNECTION DETAILS 1, 2 OR 5.

# ALTERNATE FOR TYPE 1 CONNECTION







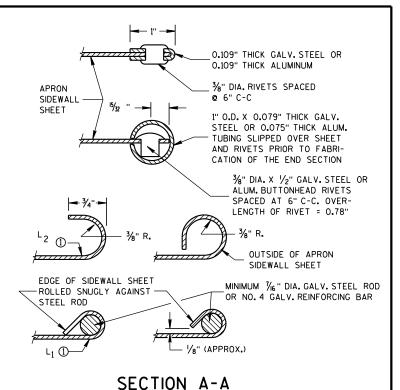


FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

FOR HELICALLY CORRUGATED PIPE USE ENDWALL

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



# 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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

# APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

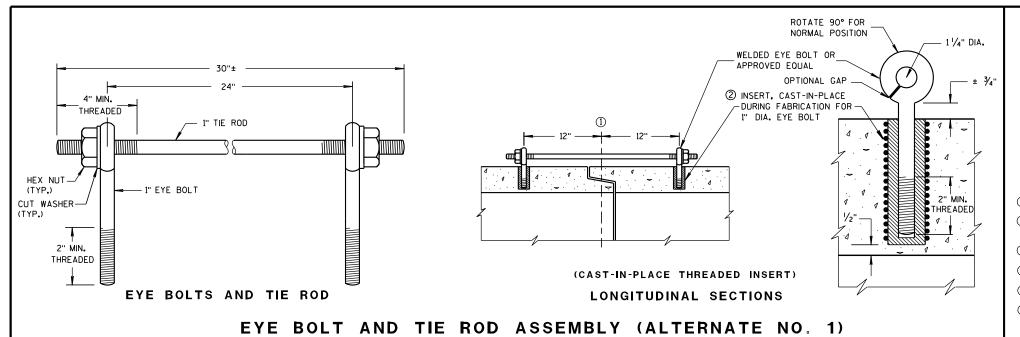
11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER

END CORNER

1/16" DIA. HOLES FOR

BOLTS OR RIVETS -

12" C-C MAX. SPACING



# **GENERAL NOTES**

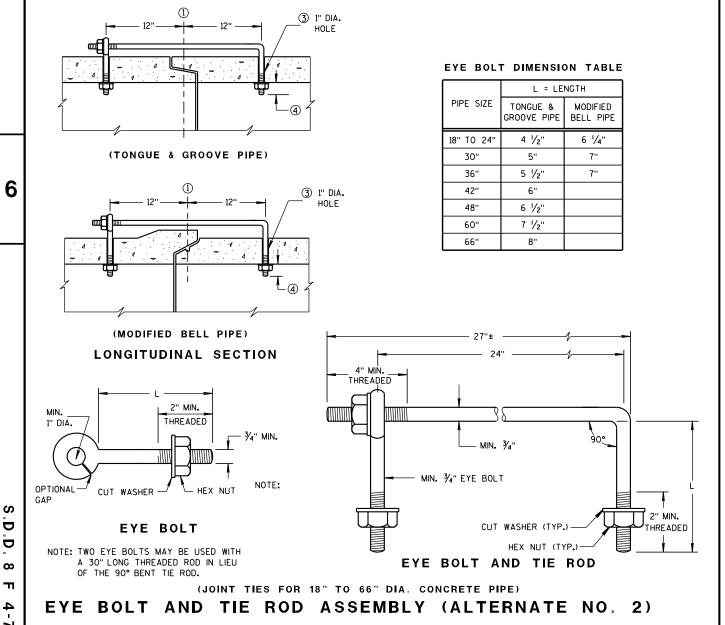
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES, ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

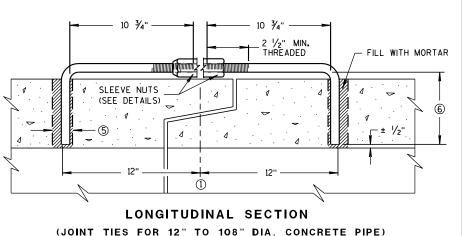
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$  HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM  ${\mathfrak L}$  OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- (5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN  $rac{1}{2}$  INCH OF THE INNER SURFACE OF THE PIPE.

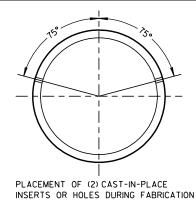


D

# ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

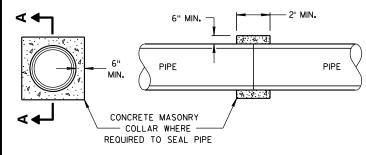


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

#### TRANSVERSE SECTION



SECTION A-A

# CONCRETE COLLAR DETAIL

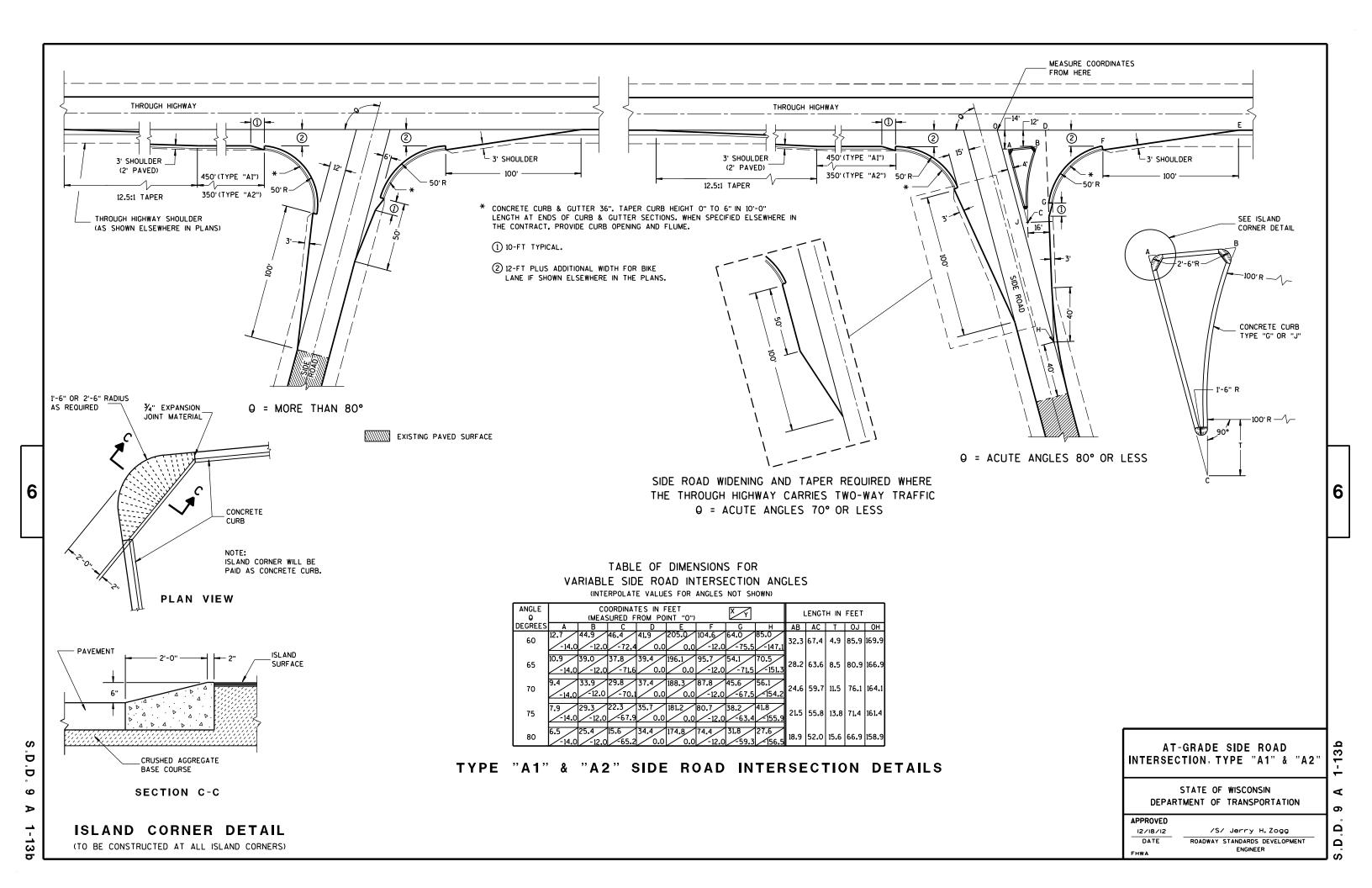
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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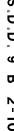
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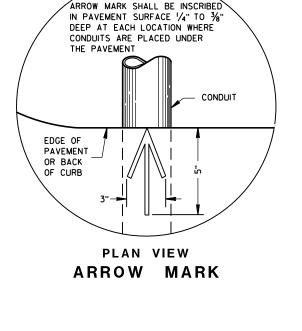


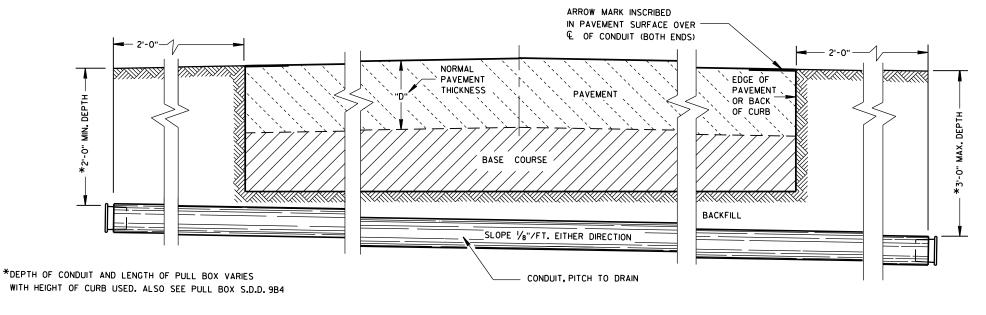












# SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

# **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

# 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".

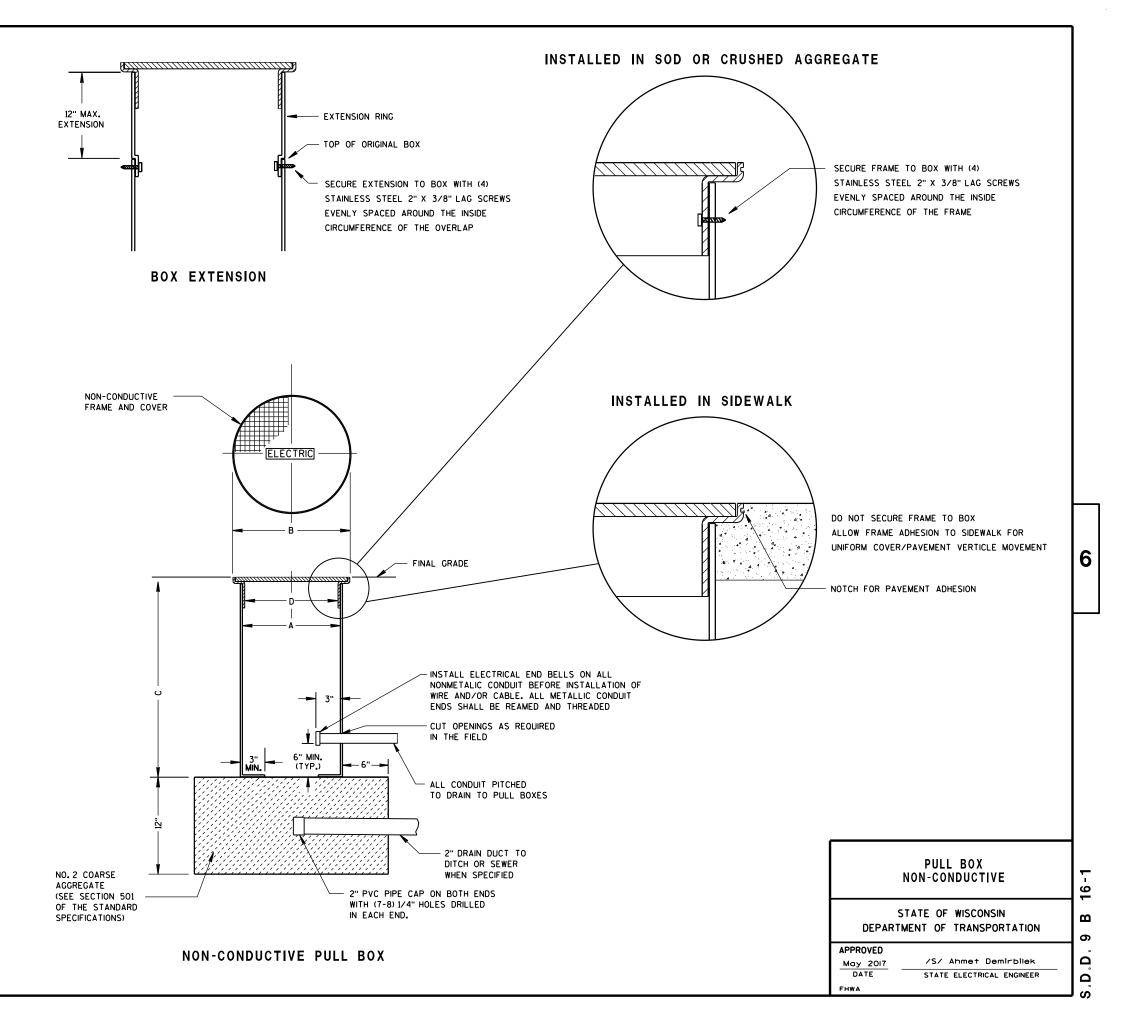
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

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.



CONDUIT WITHIN

6" DIA

ANCHOR RODS SHALL BE

ORIENTED PARALLEL TO

THE ROADWAY

**HALF SECTION IN** 

**UNPAVED AREA** 

(TYPICAL FOR

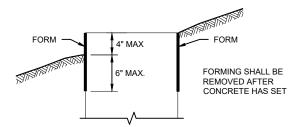
TYPES 1, 2, 5 & 6)

MIN

TOPSOIL AND SEED OR

CRUSHED

**AGGREGATE** 



FORM ALL EXPOSED

CONCRETE, PROVIDE

1" CHAMFER ALL AROUND

TYPE 1

FΩ	RI	ИI	NG	ם ב	FT	ΔΙ	11

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

1" CONDUIT

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)

FOR GROUNDING

TYPE 2

**CONCRETE BASES** 

# **GENERAL NOTES**

CONDUIT

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** 

FOR GROUNDING

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 OR PLUGGED.

**TYPE 5 & 6** 

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 TIED TOGETHER.

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).

- 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 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.
- (4) 1" DIA. X 3' 6" ANCHOR RODS.
- (7) (6) NO. 4 X 4' 8" BAR STEEL REINFORCEMENT.
- (8) (5) NO. 4 X 5' 1" BAR STELL REINFORCEMENT @ 1' 0" C -C.
- EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR
- (1) 5/8" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED
- (1) ANY ANCHOR ROD PROJECTION SHORTER THAN 2  $^34$ " OR LONGER THAN 3  $^14$ " SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
- (2) FOR NON BREAKAWAY INSTALLATIONS, 4 ½"  $\pm$  ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

STATE ELECTRICAL ENGINEER

**PURPOSES** CONDUIT CONDUIT WITHIN 11 1/2" BOLT CIRCLE CONDUIT WITHIN 11 1/2" BOLT CIRCLE 6" DIA. 6" DIA. ANCHOR RODS SHALL BE ANCHOR RODS SHALL BE ORIENTED PARALLEL TO ORIENTED PARALLEL TO (OUT TO OUT) (OUT TO OUT) THE ROADWAY THE ROADWAY FORM ALL EXPOSED FORM ALL EXPOSED CONCRETE. PROVIDE CONCRETE. PROVIDE 1" CHAMFER ALL AROUND 1" CHAMFER ALL AROUND 3" (11)(12) 3" (11)(12) 6" MIN. 1' - 0" 6" MIN. 1' - 0" - 3" CLEAR - 3" CLEAR (9) (9) 7' - 0" (5) 5' - 0" (8) 10) 10 OPTIONAL 4" L BEND OPTIONAL 4" L BEND OR HEX NUT (TYPICAL OR HEX NUT (TYPICAL FOR TYPES 1, 2, 5 & 6 FOR TYPES 1, 2, 5 & 6 6" MIN 6" MIN L 2"

CONDUIT

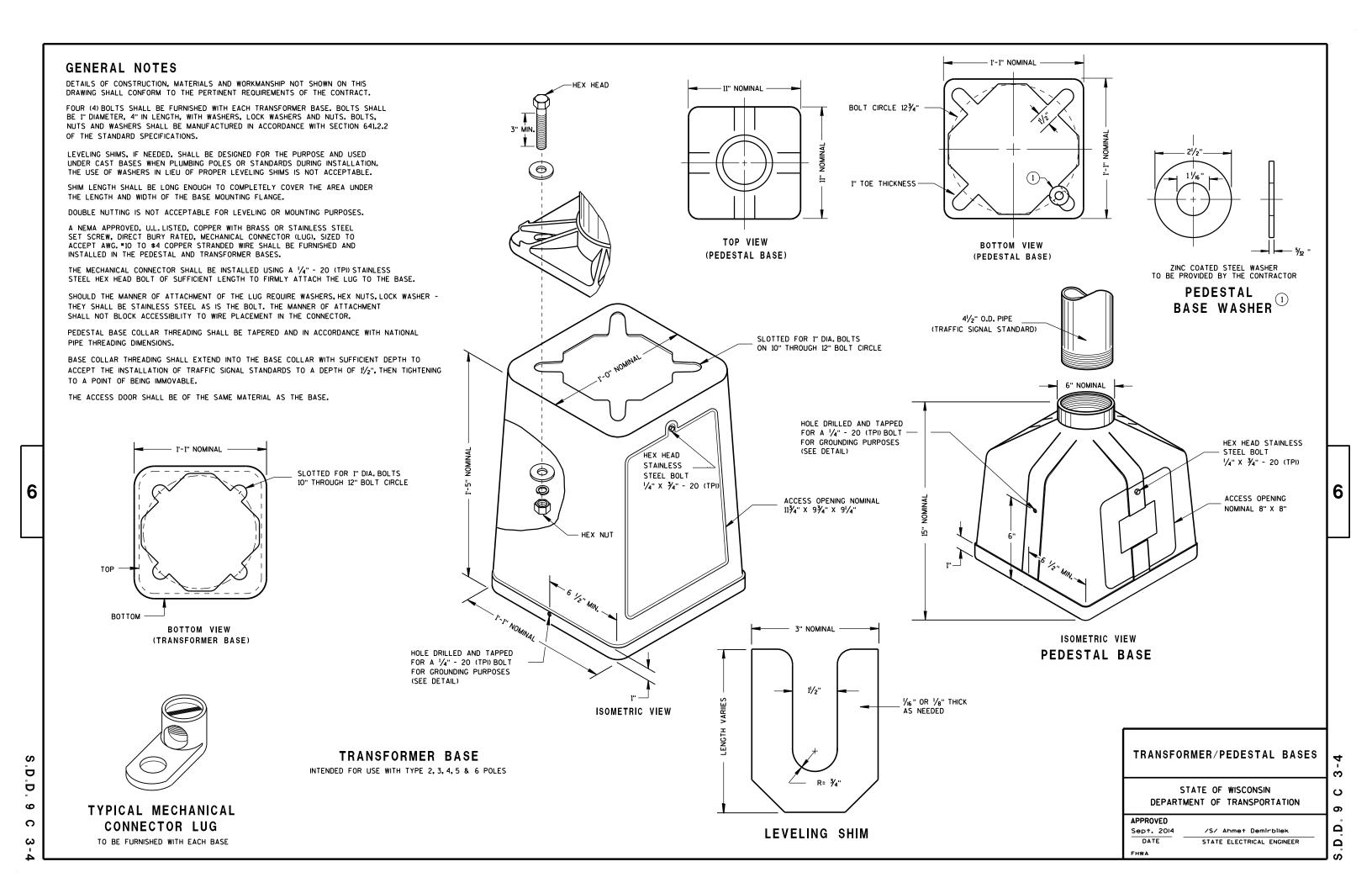
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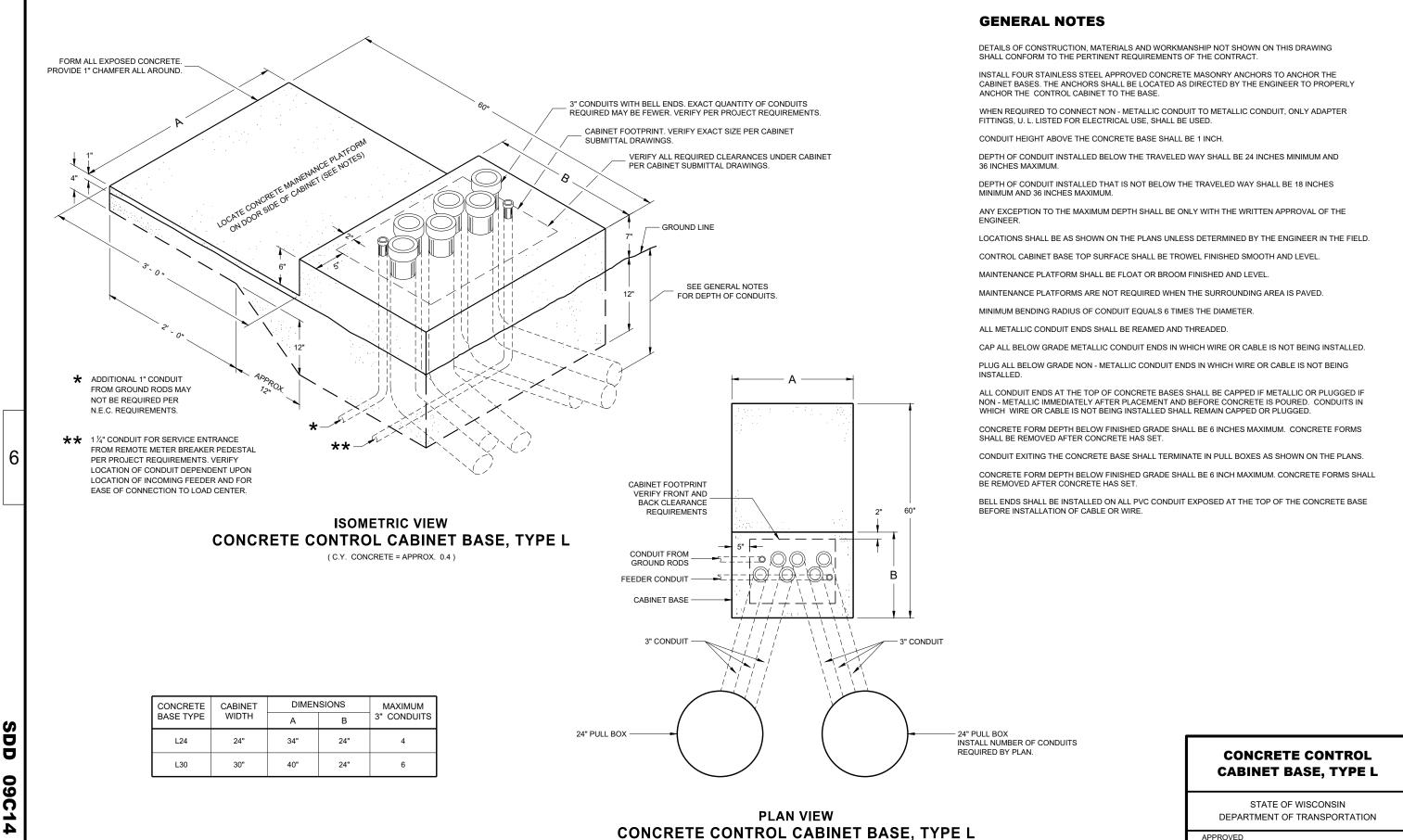
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/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

November 2018 DATE

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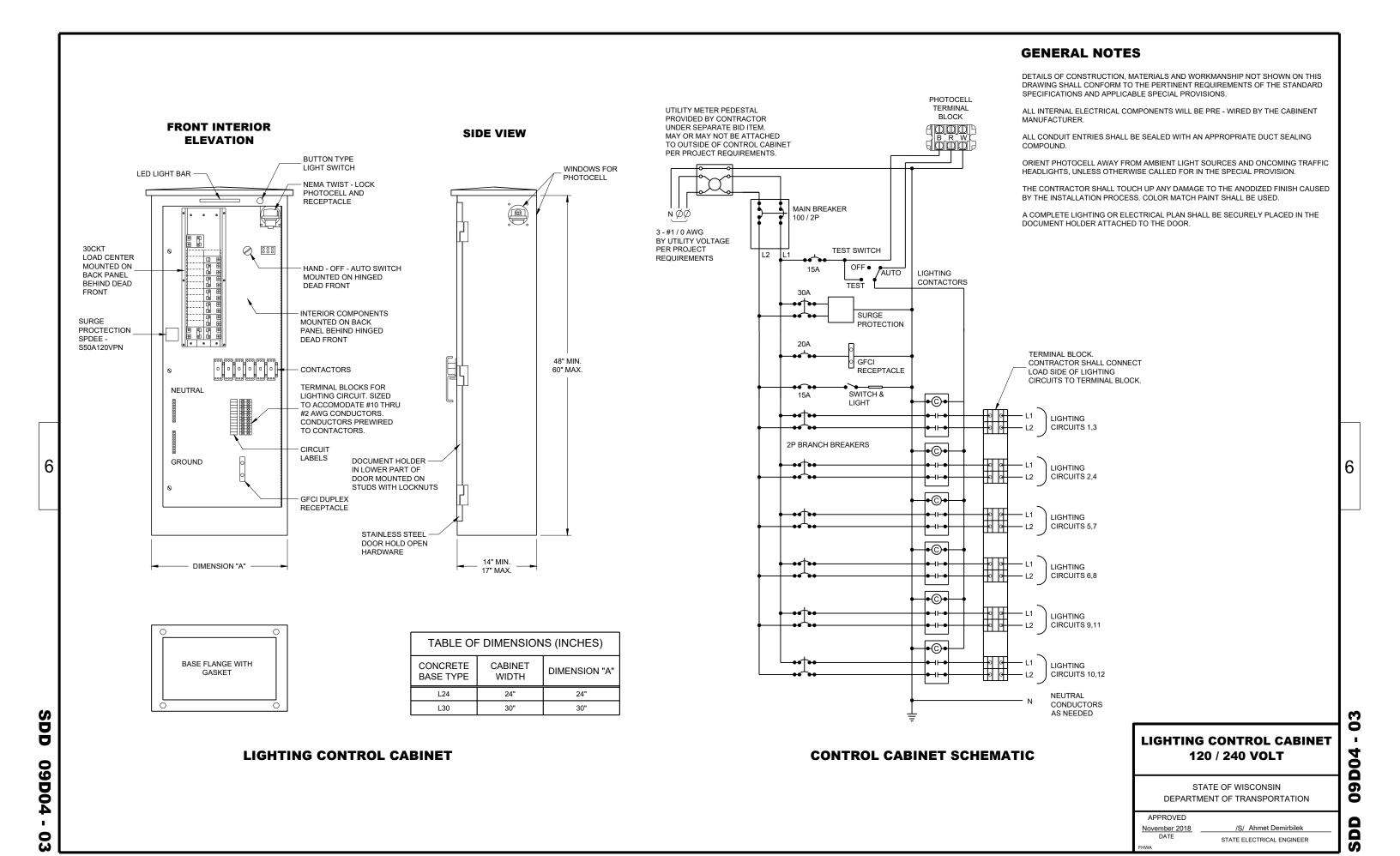
/S/ Ahmet Demirbilek

STATE ELECTRICAL ENGINEER

Sept. 2014

DATE

FHWA



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

ALL TYPE 6 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

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

TYPE 6 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

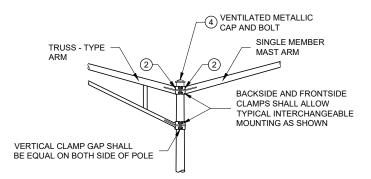
TYPE 6 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.219".

TYPE 6 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 % INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

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

- 1 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.
- ② GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 %" HOLE IN POLE SHAFT FOR WIRING.
- $\ensuremath{\ensuremath{\mathfrak{G}}}$  CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.
- 4 FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X 3/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
- (5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.
- 6 INTERNAL DUMBBELL TYPE VIBRATION DAMPER.



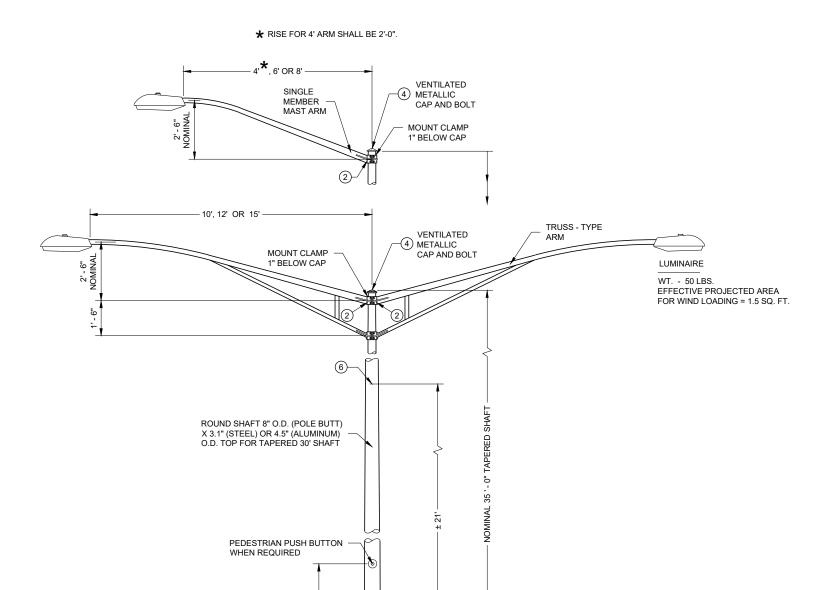
INTERCHANGEABLE MOUNTING DETAIL

# **POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 6**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

(35 FEET)

09E0



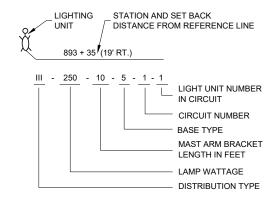
**TYPE 6 POLE MOUNTING CONFIGURATION** (MAXIMUM LOAD) **LIGHTING ONLY** 

3 (5)

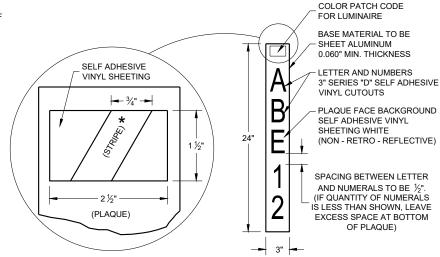
TOP OF CONCRETE BASE -

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.



#### LIGHTING UNIT CODE (TYPICAL)



(MERCURY VAPOR)

250 WATT - YELLOW

400 WATT - NO PATCH

**COLOR PATCH CODE** 

FOR LUMINAIRES

250 WATT - ORANGE W / WHITE STRIPE \*

(HIGH PRESSURE SODIUM)

1000 WATT - NO PATCH

400 WATT - ORANGE

310 WATT - BI UF

200 WATT - RED

150 WATT - GREEN

100 WATT - BROWN

IDENTIFICATION **PLAQUE** 

DIRECTION PLACE UNIT DIRECTION OF TRAFFIC OF TRAFFIC

PLACE UNIT NUMBER

SINGLE ARM POLE MEDIAN POLE **NOTES** 

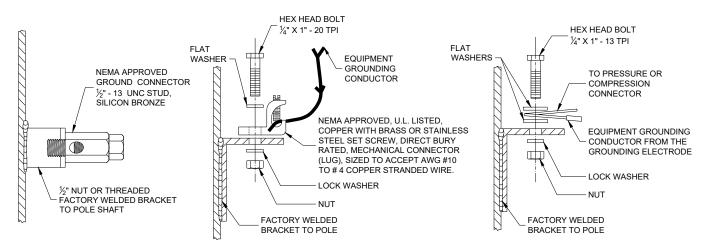
- 1) PLACE BOTTOM OF UNIT NUMBER PLAQUE 5'-0" ABOVE ELEVATION OF ADJACENT CURB OR SHOULDER.
- 2) UNIT NUMBER: ONE REQUIRED FOR SINGLE ARM POLES. TWO REQUIRED FOR MEDIAN MOUNT POLES.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE WITH 3 ALUMINUM POP RIVETS (ALUMINUM POLES) OR STAINLESS STEEL POP RIVETS (STEEL POLES).

#### LIGHTING UNIT IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENT (TYPICAL, ALL LIGHTING UNITS)

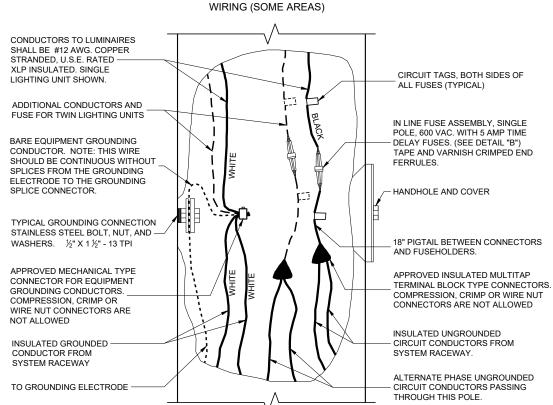
FURNISH PLAQUE WHEN CALLED FOR BY SPECIAL PROVISIONS

E



### TYPICAL GROUNDING CONNECTIONS

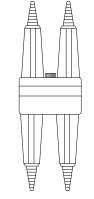
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



**OLD EXISTING FREEWAY** 

TWIN LIGHTING UNITS REQUIRE UNGROUNDED CONDUCTORS TO INDIVIDUAL SETS OF UNGROUNDED -LUMINAIRES SHALL BE #12 AWG, CONDUCTORS AND FUSE ASSEMBLIES. COPPER STRANDED, U.S.E. RATED, XLP INSULATED. SINGLE LIGHTING UNIT SHOWN TWIN LIGHTING UNIT EQUIPMENT GROUNDING CONDUCTOR EQUIPMENT GROUNDING CONDUCTOR IN LINE FUSE ASSEMBLY, TWO AWG #4 (MIN.) BARE EQUIPMENT POLE, 600 VAC, WITH 5 AMP TIME GROUNDING CONDUCTOR. DELAY FUSES. (SEE DETAIL "A") NOTE: THIS WIRE SHOULD BE TAPE AND VARNISH CRIMPED END CONTINUOUS WITHOUT SPLICES -FERRULES. FROM THE GROUNDING ELECTRODE TO THE GROUNDING SPLICE - HANDHOLE AND COVER CONNECTOR. TYPICAL GROUNDING CONNECTION STAINLESS STEEL BOLT, NUT, AND -CIRCUIT TAGS, BOTH SIDES OF ALL FUSES. (TYPICAL) WASHERS. ½" X 1½" - 13 TPI 18" PIGTAIL BETWEEN CONNECTORS APPROVED MECHANICAL TYPE AND FUSEHOLDERS CONNECTOR FOR EQUIPMENT GROUNDING CONDUCTORS. COMPRESSION, CRIMP OR APPROVED INSULATED MULTITAP WIRE NUT CONNECTORS ARE TERMINAL BLOCK TYPE CONNECTORS NOT ALLOWED COMPRESSION, CRIMP OR WIRE NUT CONNECTORS ARE NOT ALLOWED. INSULATED EQUIPMENT -GROUNDING CONDUCTORS FROM SYSTEM RACEWAY. INSULATED UNGROUNDED **EXOTHERMICALLY WELDED** CIRCUIT CONDUCTORS FROM TO GROUNDING ELECTRODE. SYSTEM RACEWAY.

2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR



**DETAIL "A"** BREAKAWAY DOUBLE POLE WITH WATERPROOF **INSULATING BOOT** 

**DETAIL "B" BREAKAWAY** SINGLE POLE WITH WATERPROOF **INSULATING BOOT** 

### **FREEWAY LIGHTING UNIT POLE WIRING**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

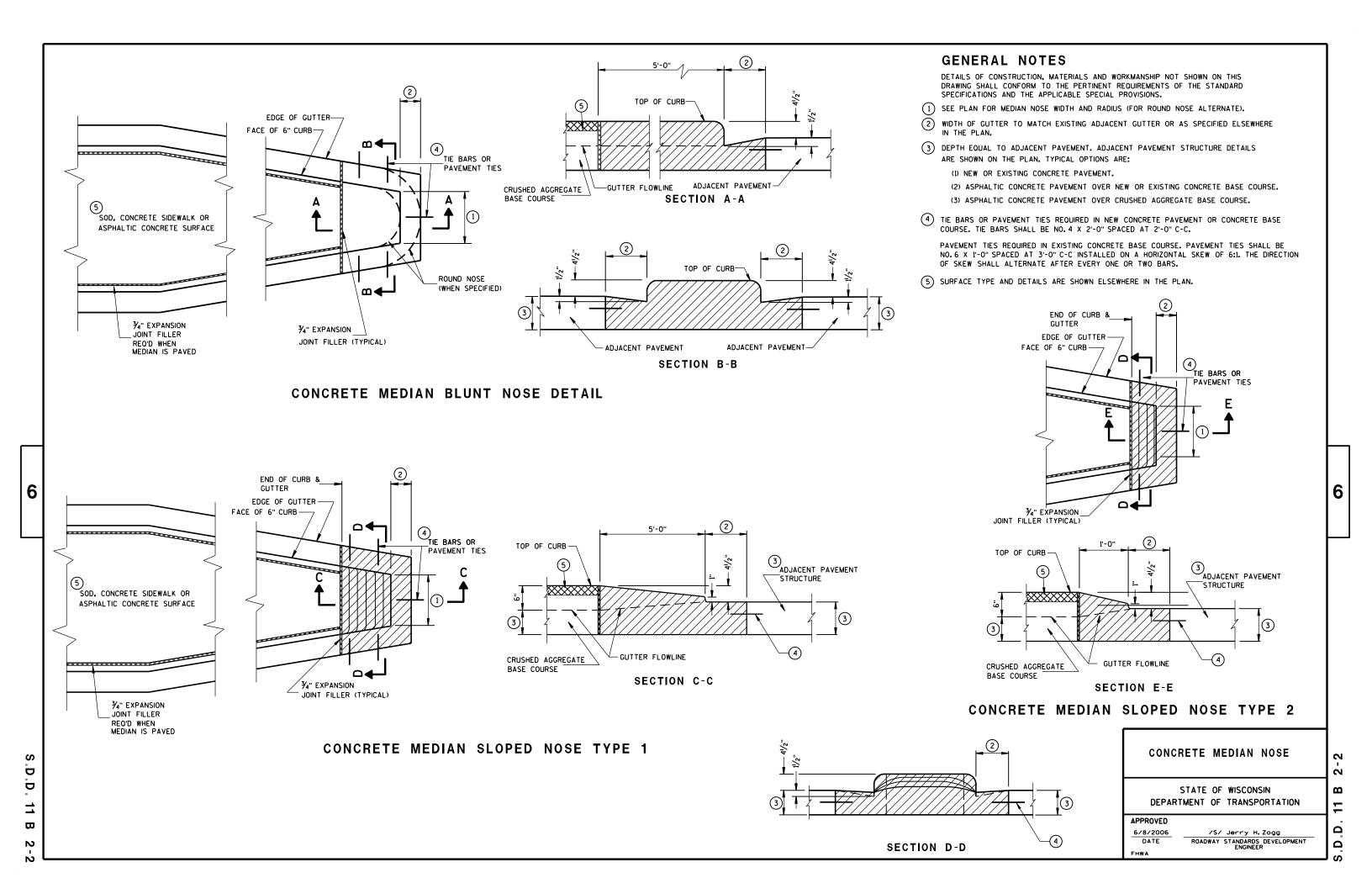
APPROVED November 2018 DATE

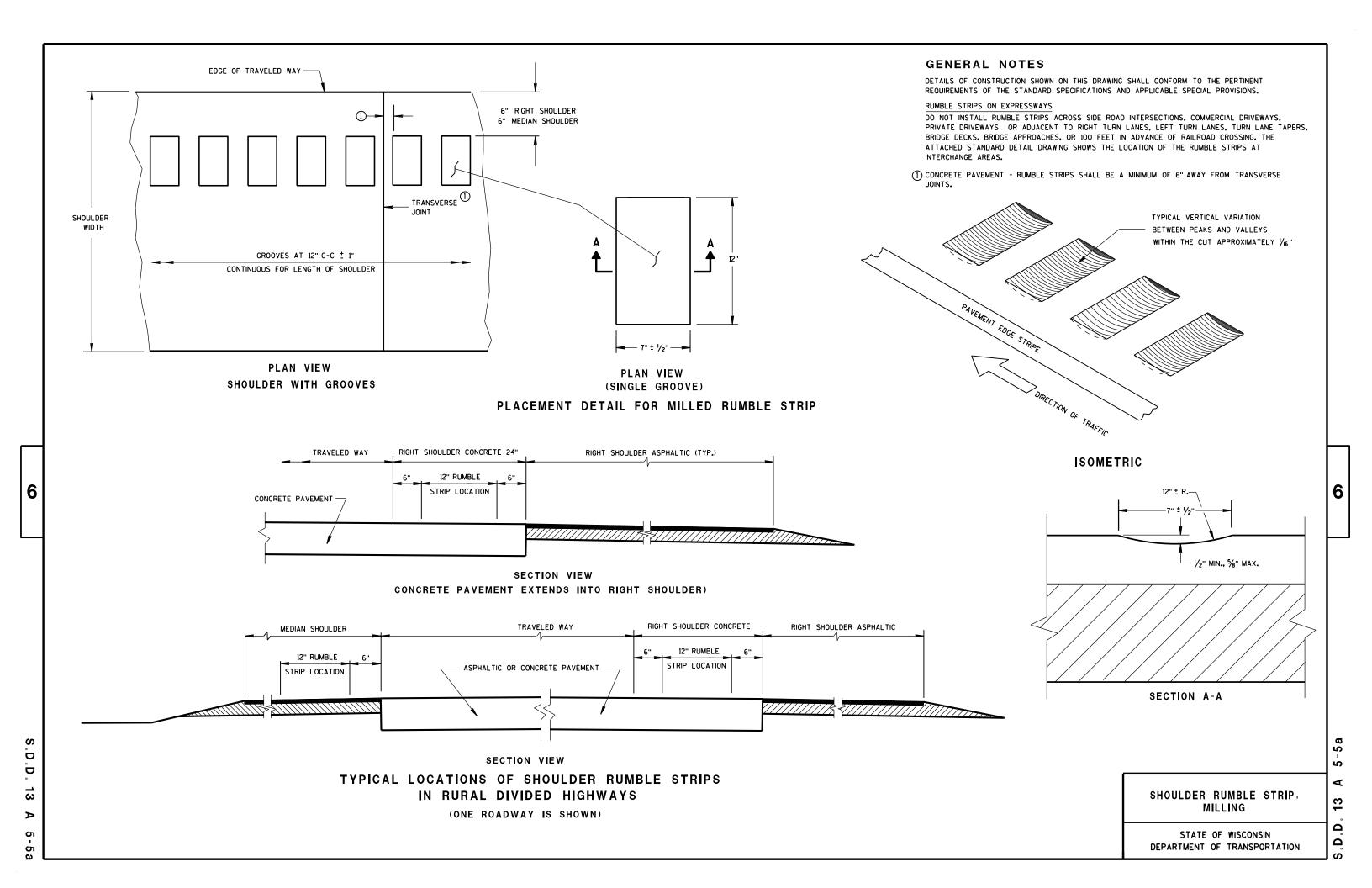
STATE ELECTRICAL ENGINEER

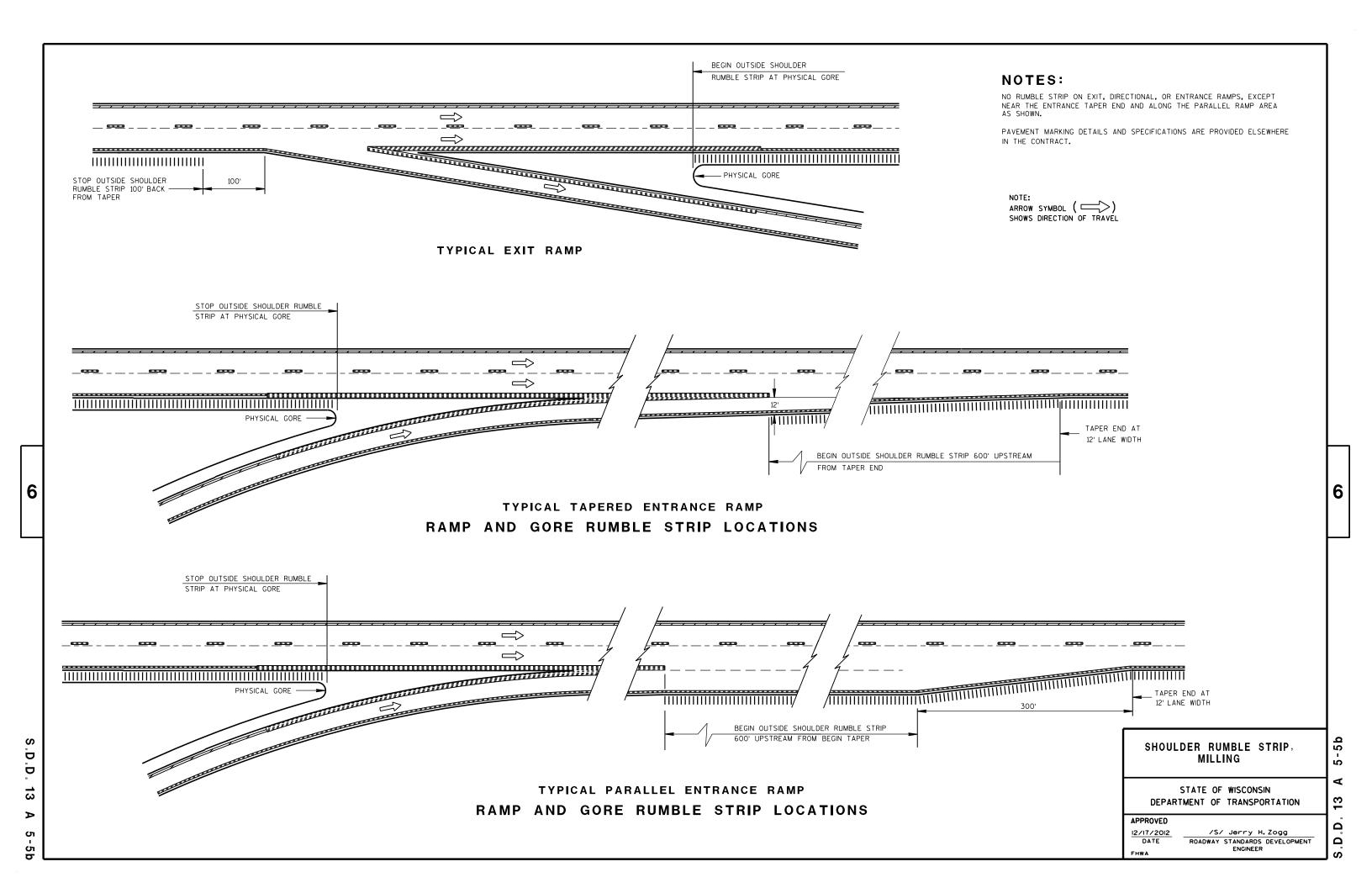
**O** 0

09E02

2 WIRE - 120, 240, OR 480 VAC TO GROUND

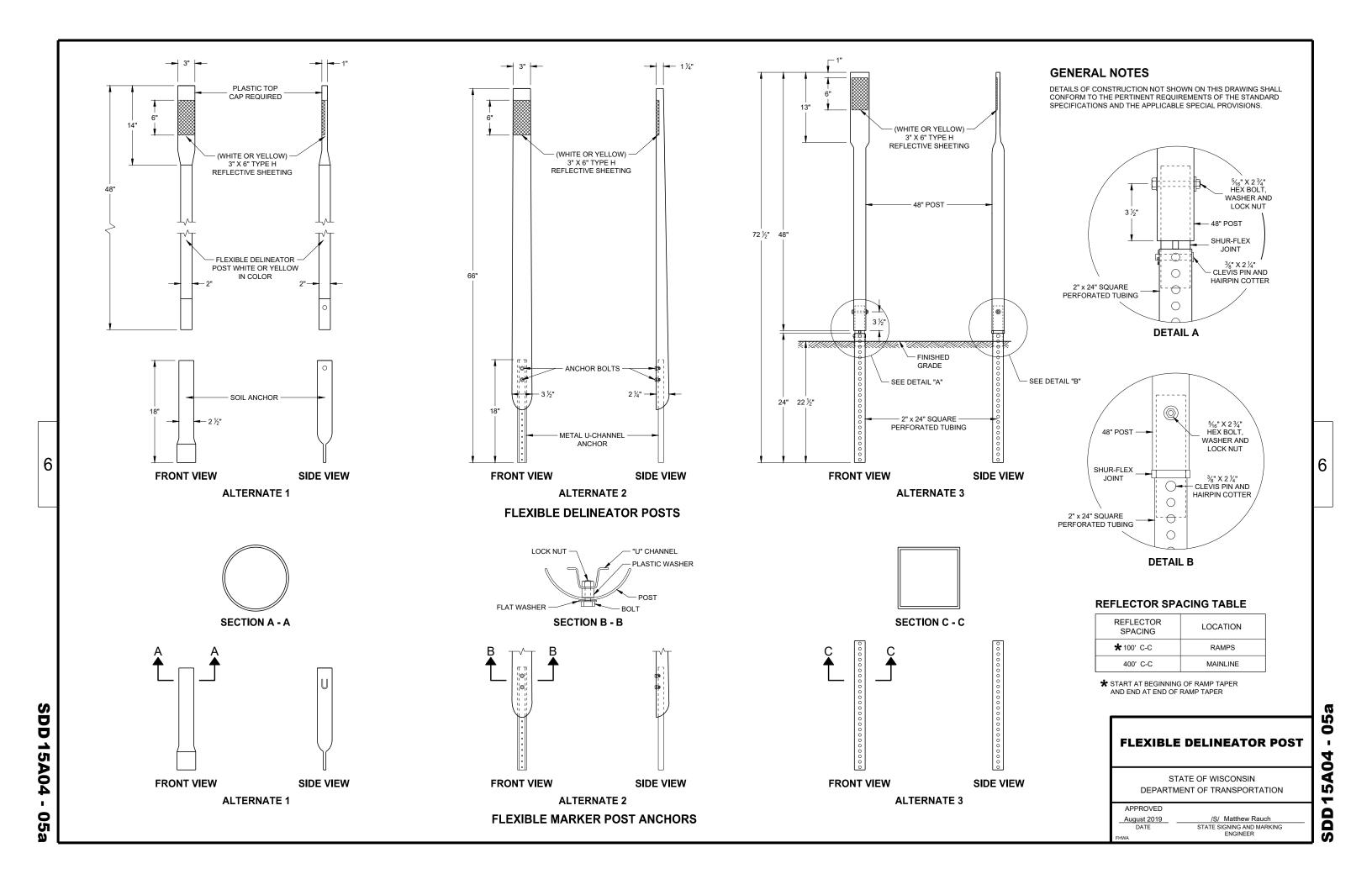


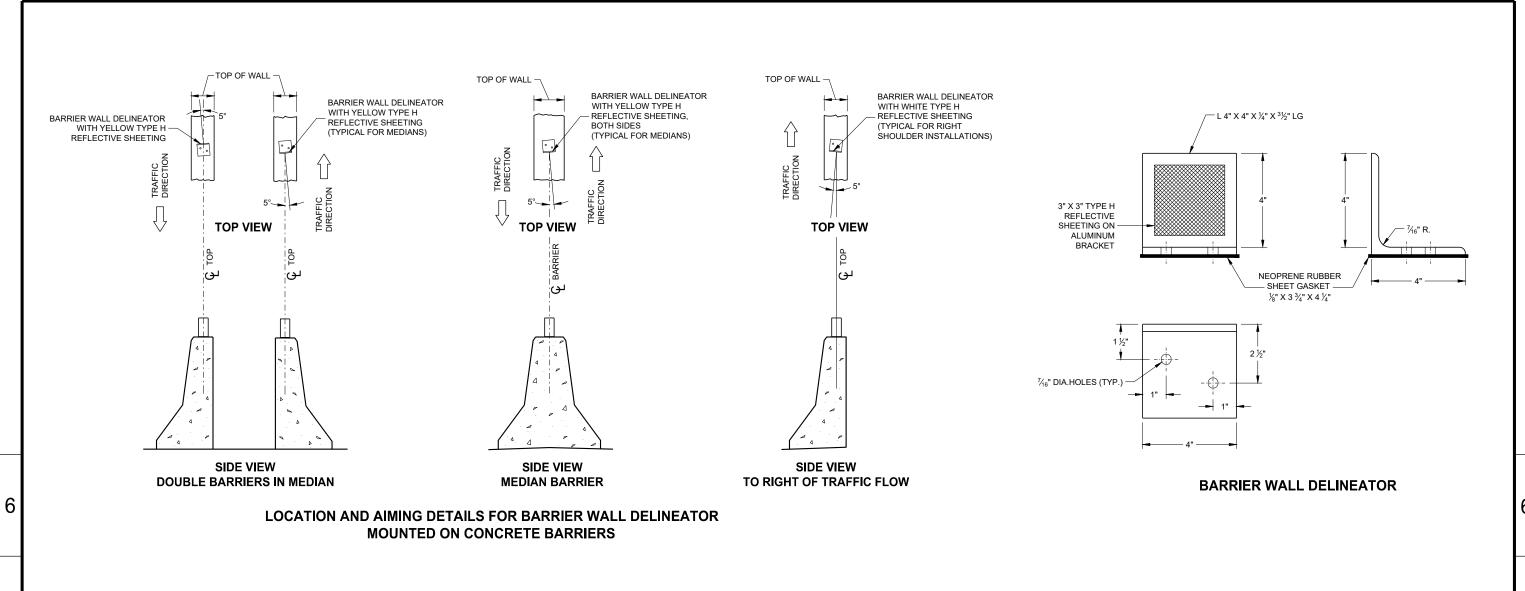






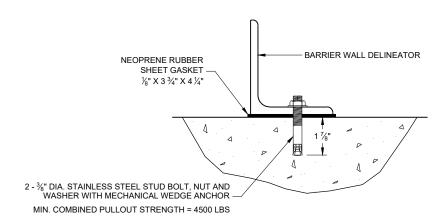






#### **REFLECTOR SPACING TABLE**

REFLECTOR SPACING	MINIMUM NUMBER OF REFLECTORS
100' C-C	3



BARRIER WALL DELINEATOR
MOUNTING DETAIL

## BARRIER WALL DELINEATOR WITH REFLECTIVE SHEETING

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15A04

SDD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

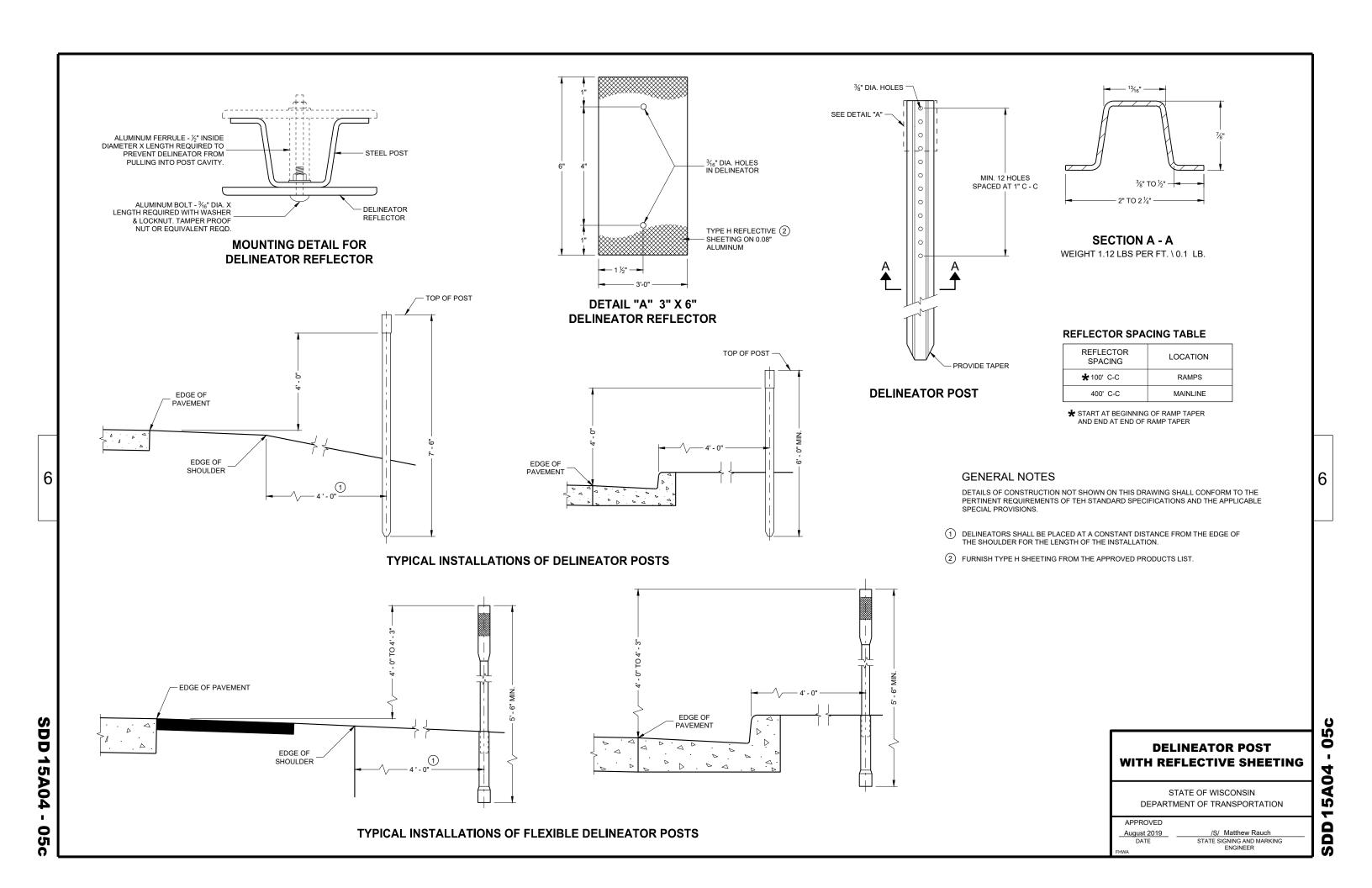
APPROVED

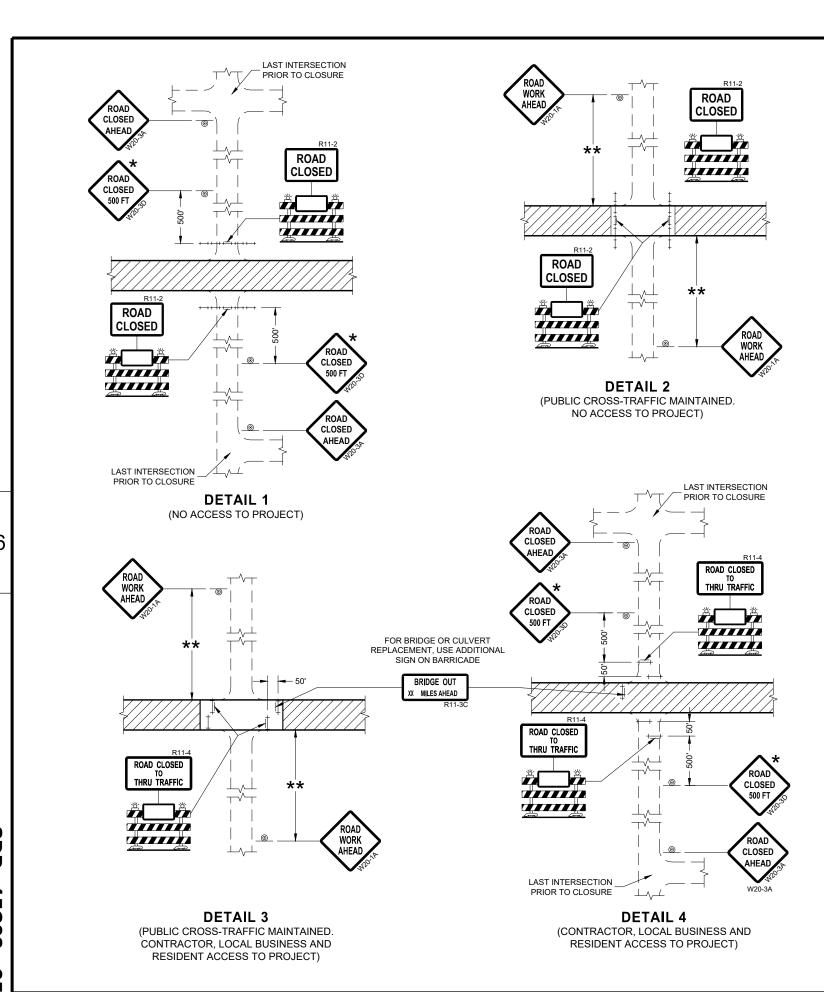
August 2019

DATE

STATE SIGNING AND MARKING
ENGINEER

SDD 15A04 - 05b





#### **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 (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

 $\begin{tabular}{l} FA "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED. \\ \end{tabular}$ 

BARRICADES 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.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN 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, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

- ★ OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.
- \*\* 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

#### LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

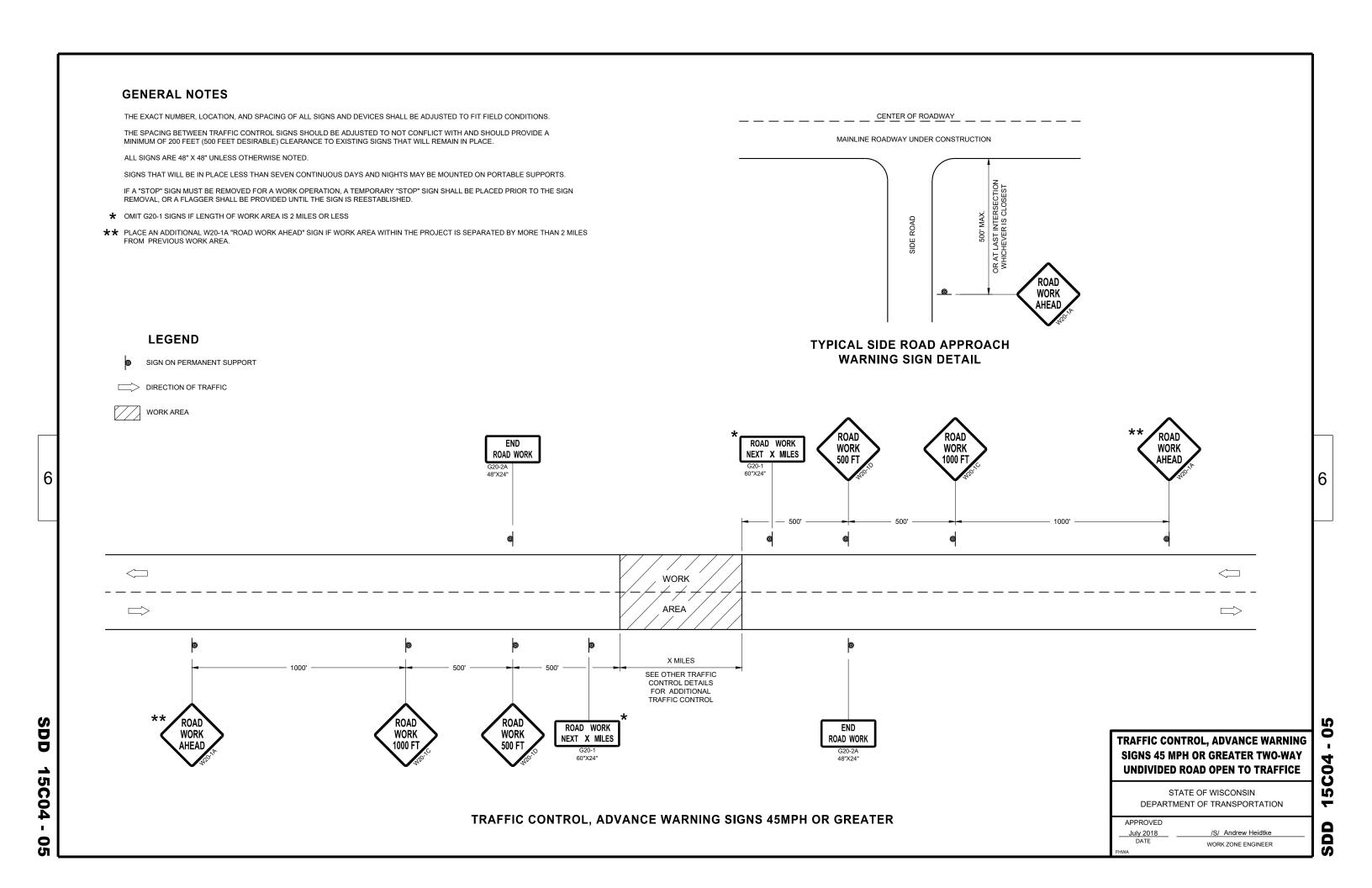
### BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

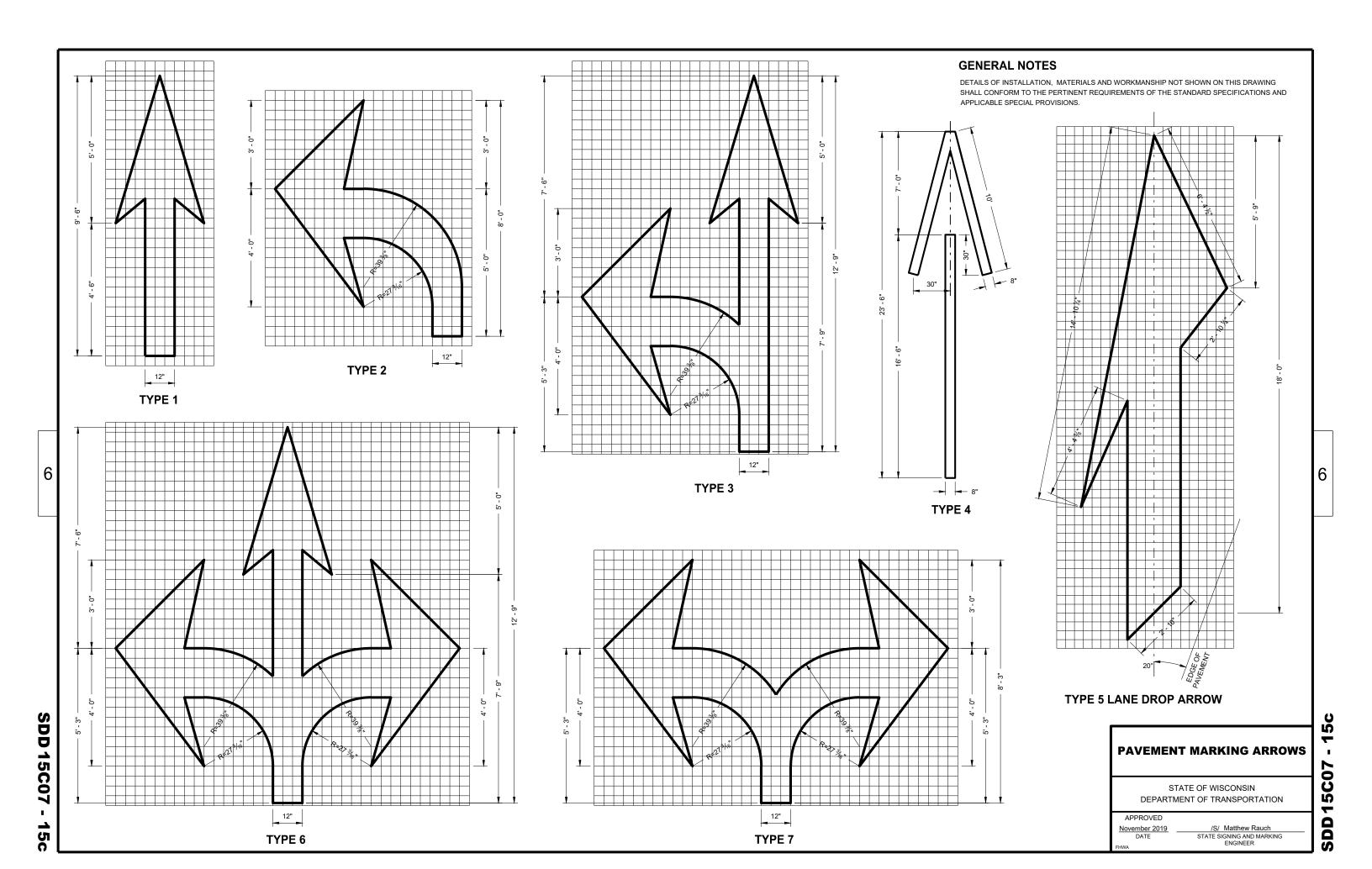
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

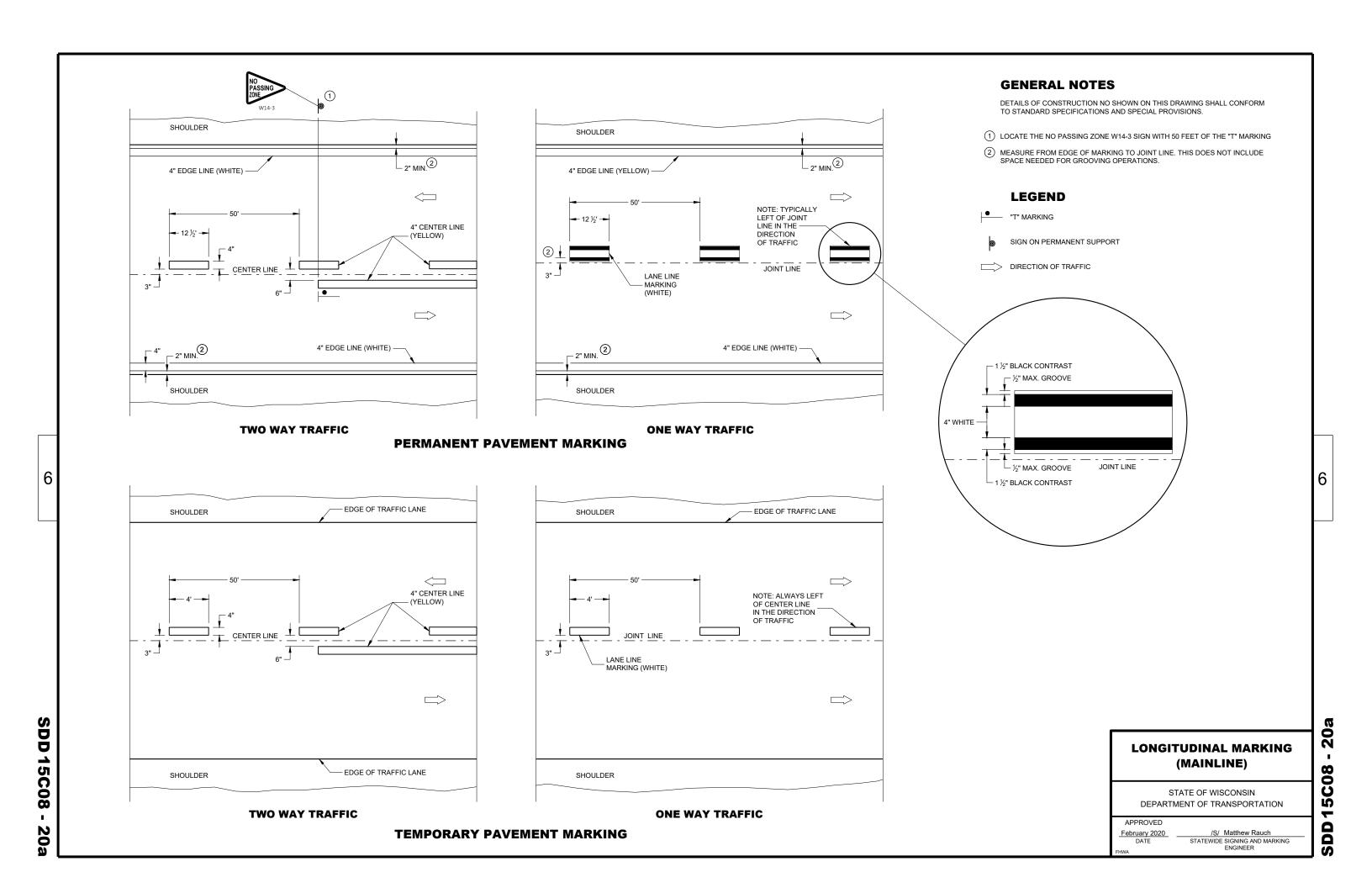
 APPROVED

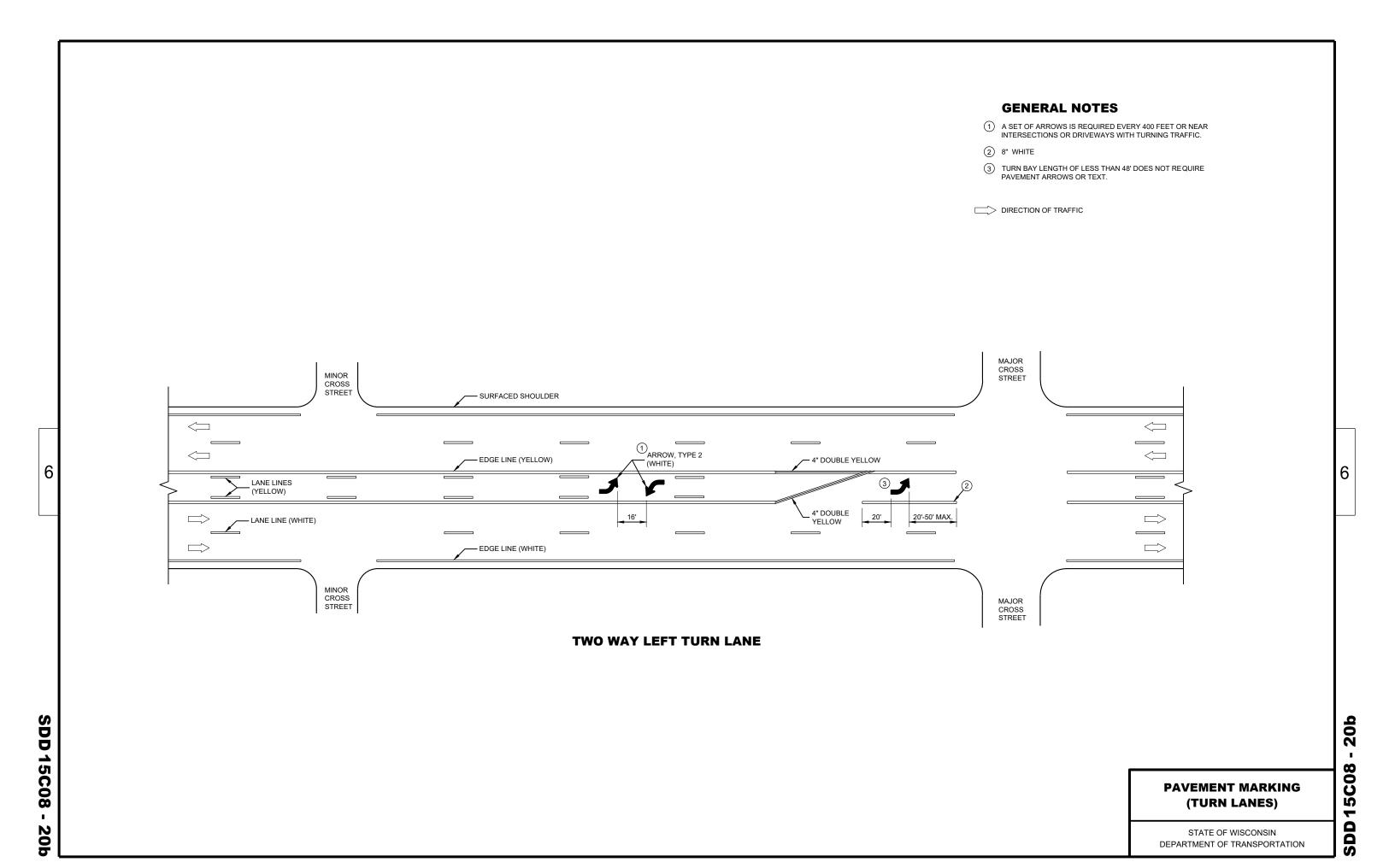
 July 2018
 /S/ Andrew Heidtke

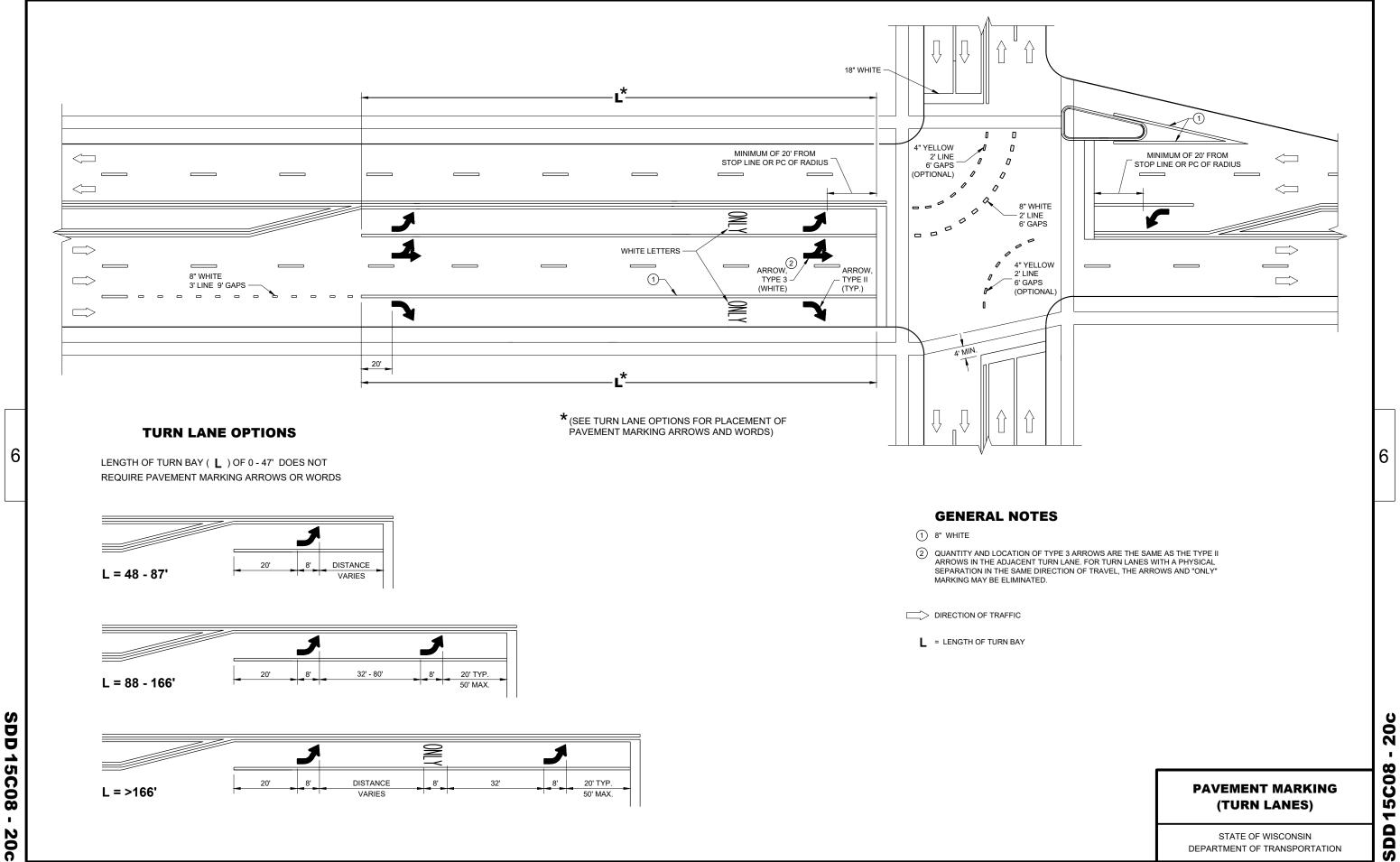
 DATE
 WORK ZONE ENGINEER







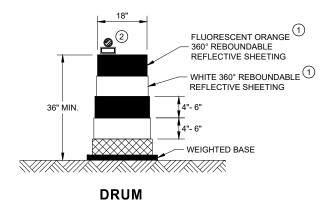


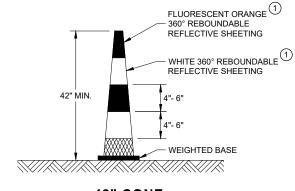


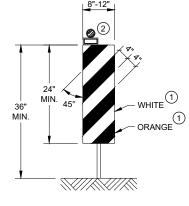
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

#### **GENERAL NOTES**

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





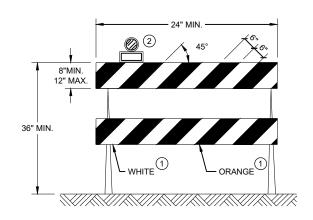


## **42" CONE**

DO NOT USE IN TAPERS ½ SPACING OF DRUMS

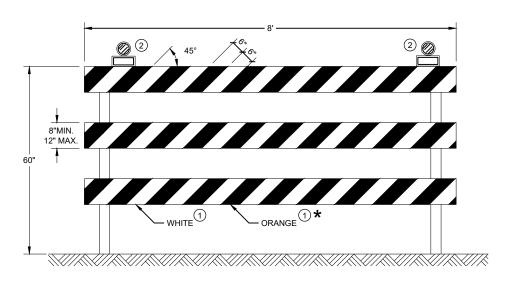
#### **VERTICAL PANEL**

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



#### **TYPE II BARRICADE**

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



#### **TYPE III BARRICADE**

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

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

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

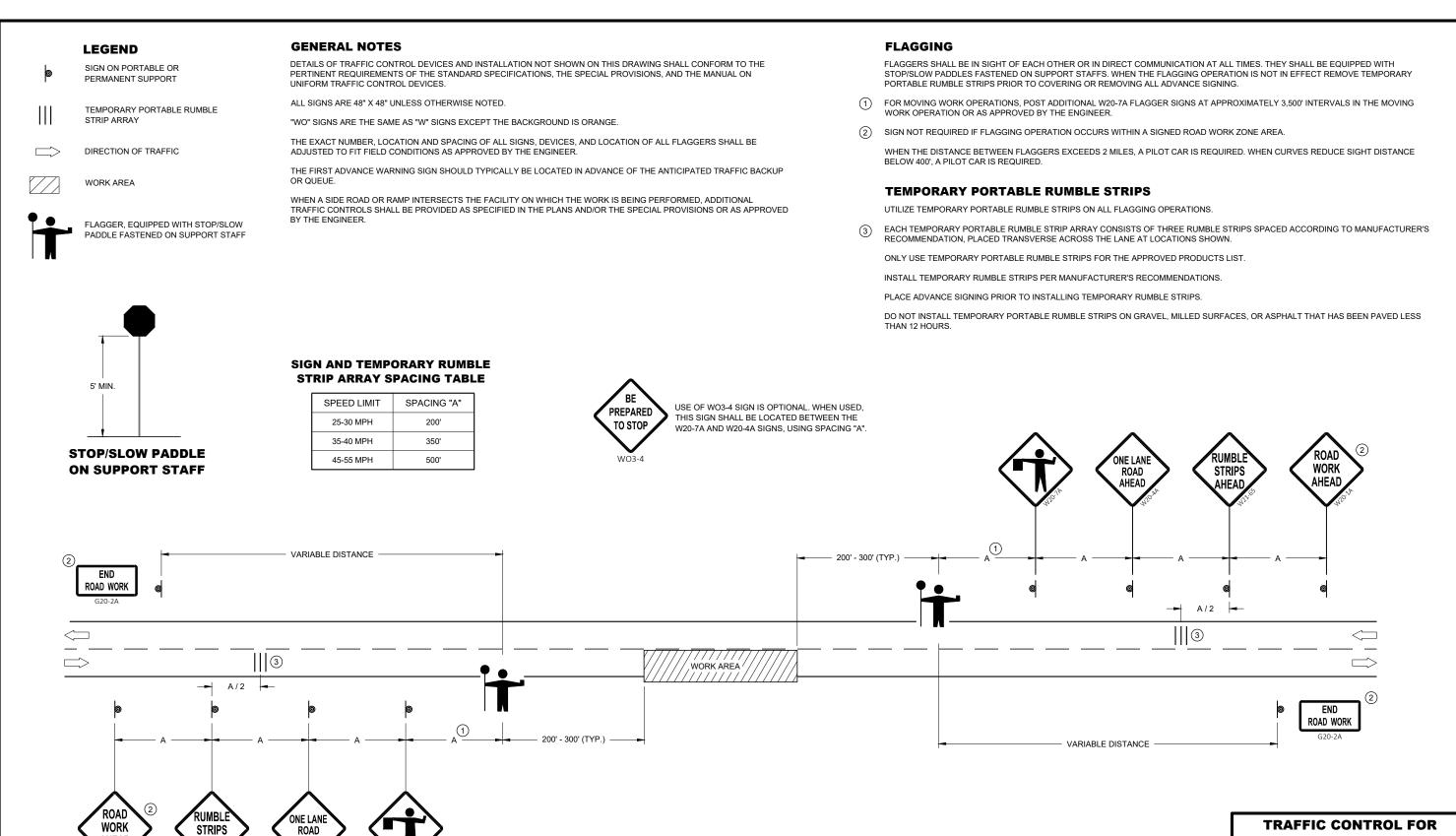
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SDD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

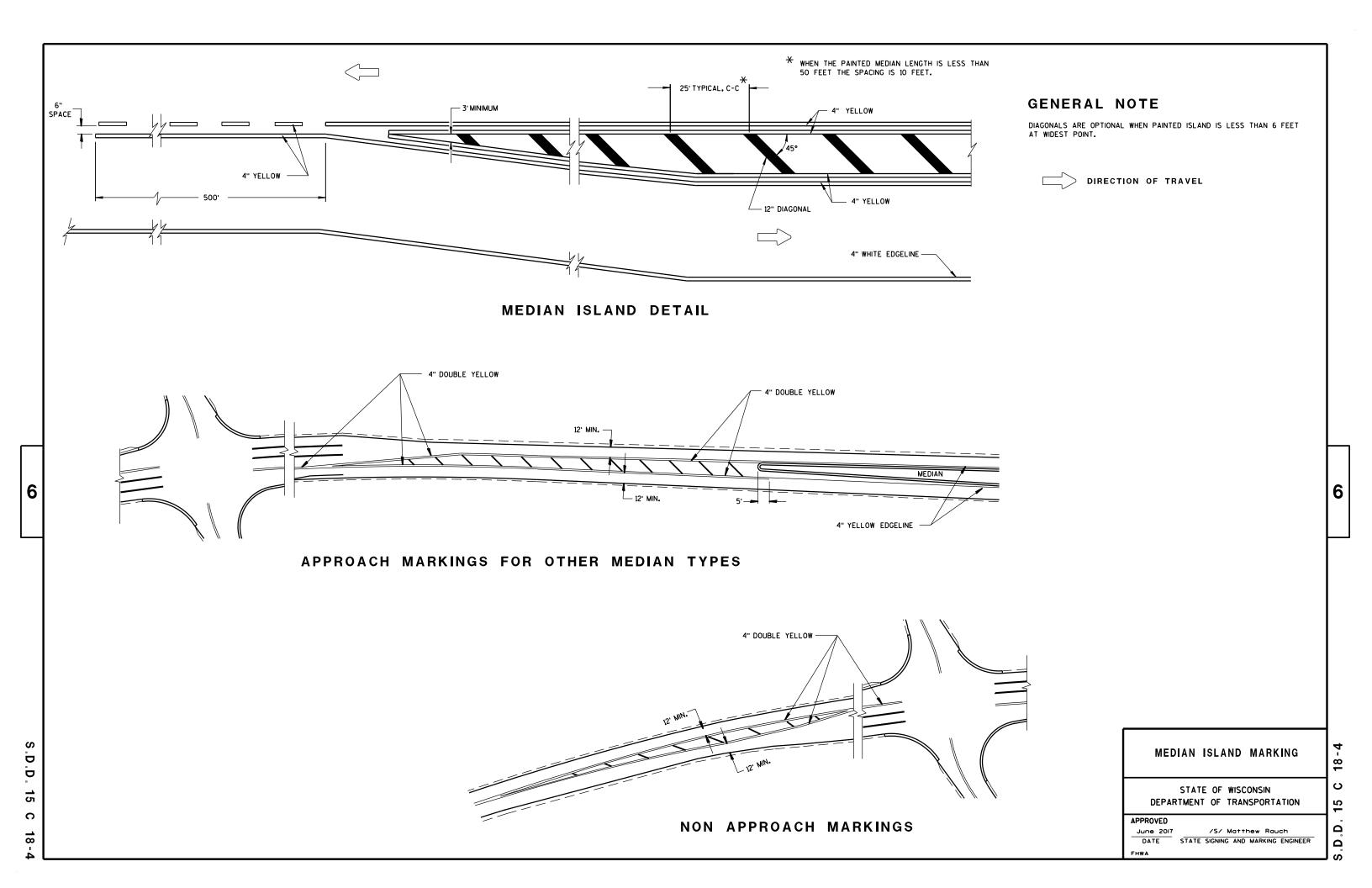
LANE CLOSURE WITH

**FLAGGING OPERATION** 

2

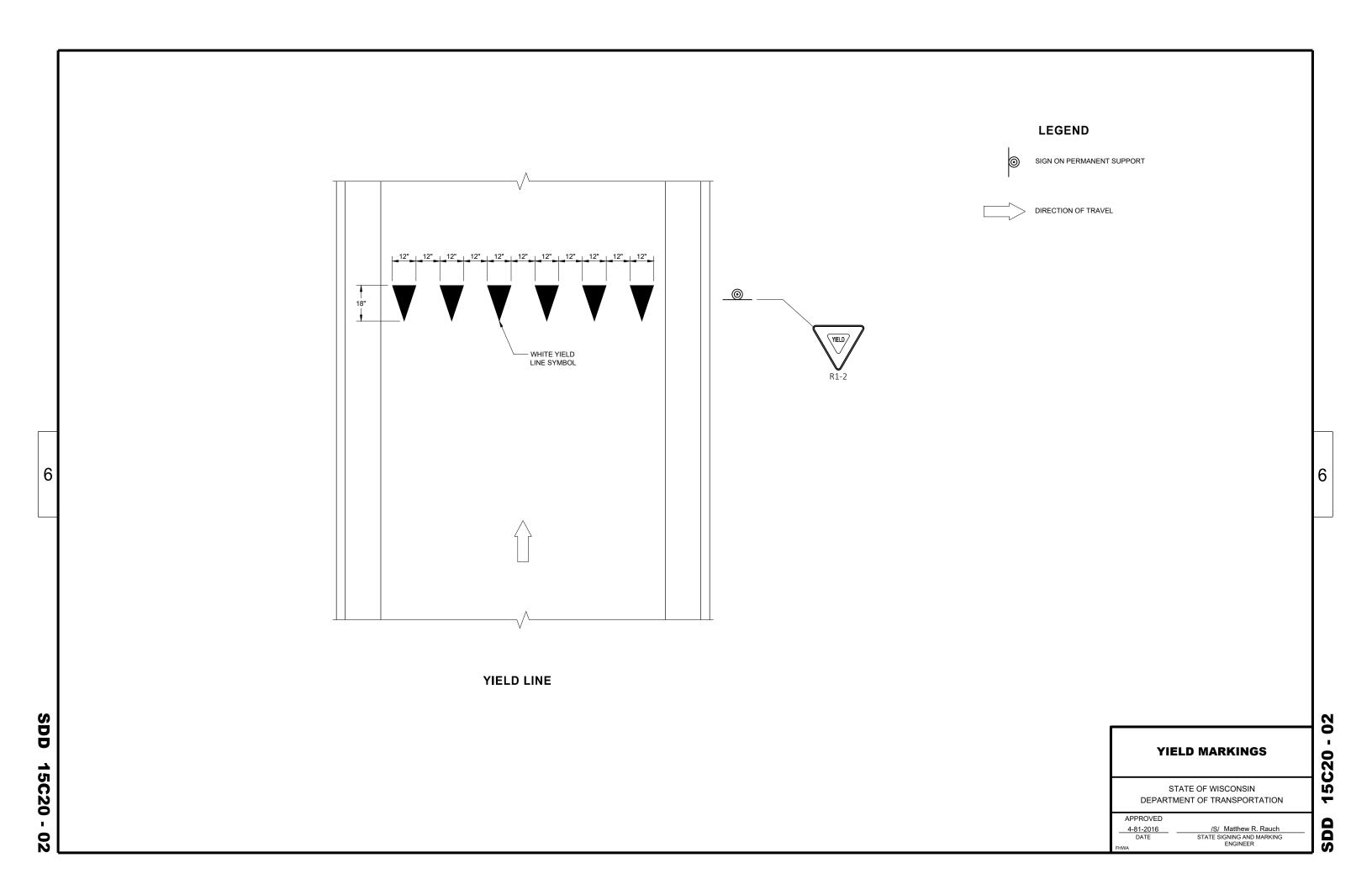
S

APPROVED May 2019 DATE WORK ZONE ENGINEER



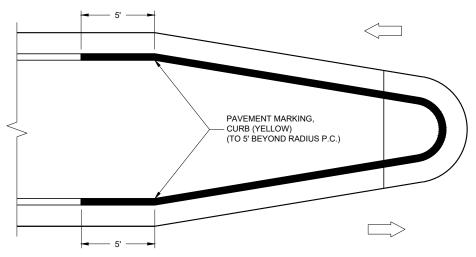
3DD 15C19 - 06a

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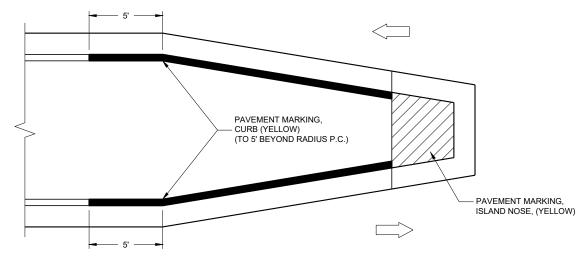


# CORRUGATED MEDIAN MARKING, (YELLOW) (TYPICAL) CORRUGATION IF PRESENT PAVEMENT MARKING, ISLAND NOSE, (YELLOW)

#### MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

## TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

#### **GENERAL NOTES**

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

CURB MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

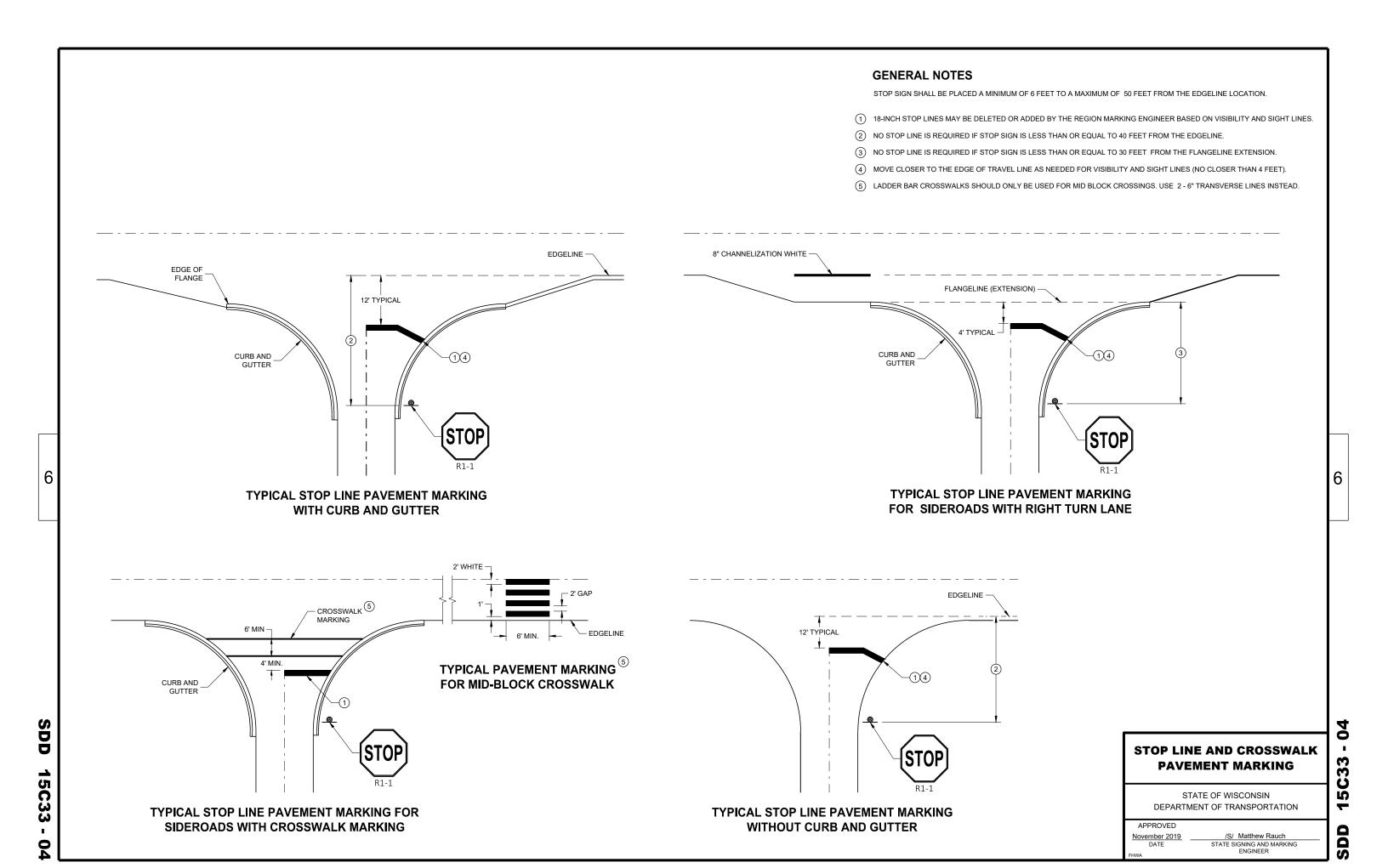
## PAVEMENT MARKINGS (ISLANDS)

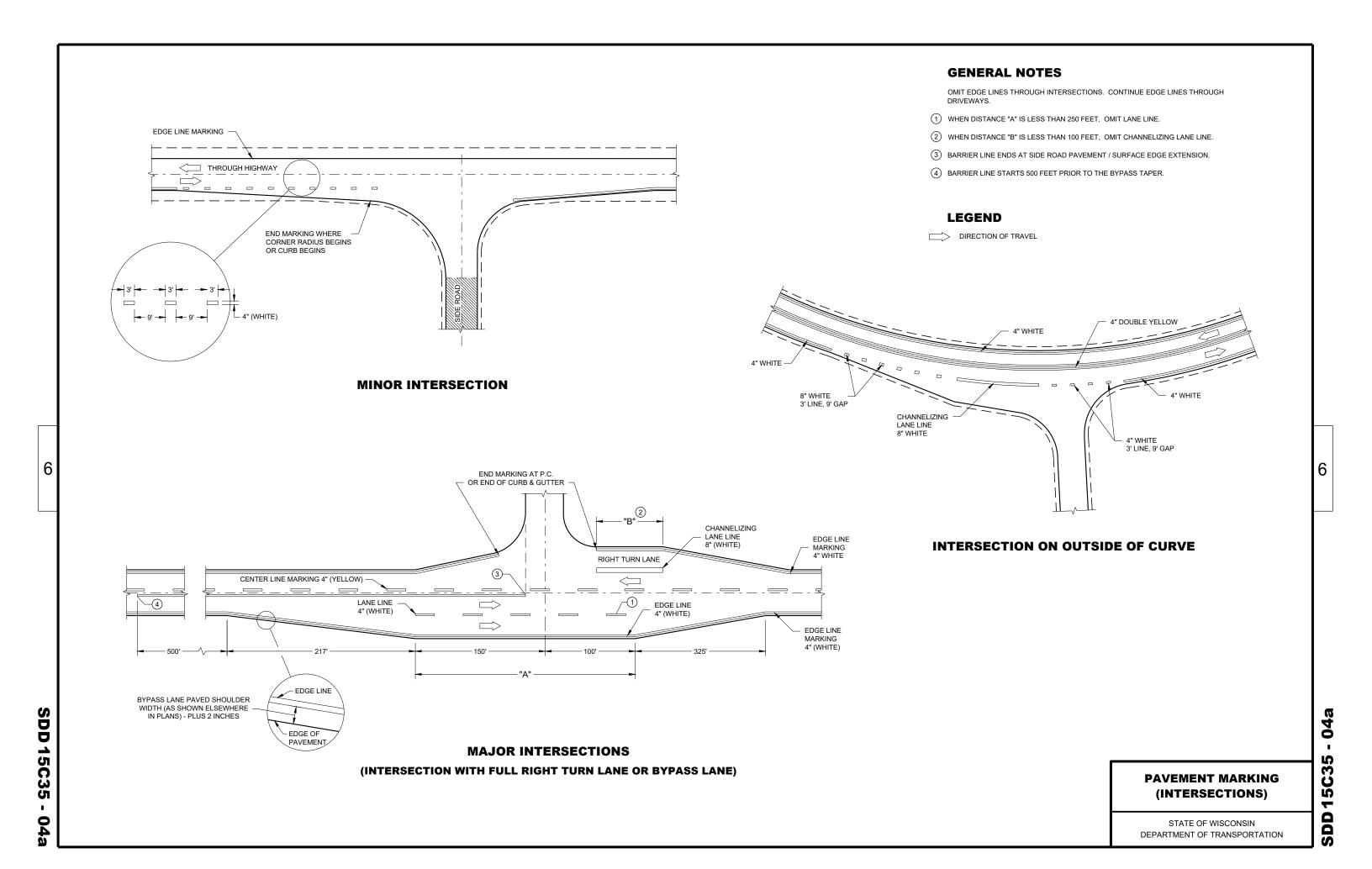
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**SDD 15C27** 

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
7/2018	/S/ Matthew R. Rauch
DATE	STATE SIGNING AND MARKING
FHWA	ENGINEER





#### **GENERAL NOTES**

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 SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS

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

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO  $50\,\mathrm{FEET}.$ 

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

★ A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES. INCLUDE A RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIRABLE) BEYOND THE "END OF ROADWORK" SIGN.

#### **LEGEND**

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- ▼ TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TYPE III BARRICADE WITH ATTACHED SIGN

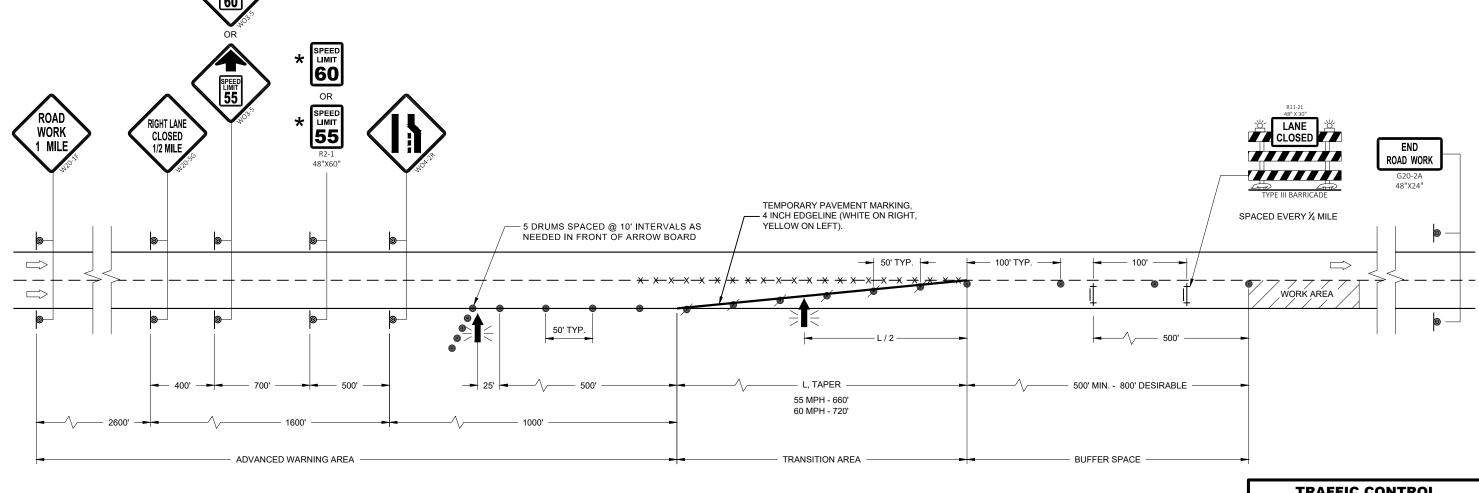
TYPE "A" WARNING LIGHT (FLASHING)

-X-X-X REMOVING PAVEMENT MARKINGS

DIRECTION OF TRAFFIC

WORK AREA

FLASHING ARROW BOARD



#### TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

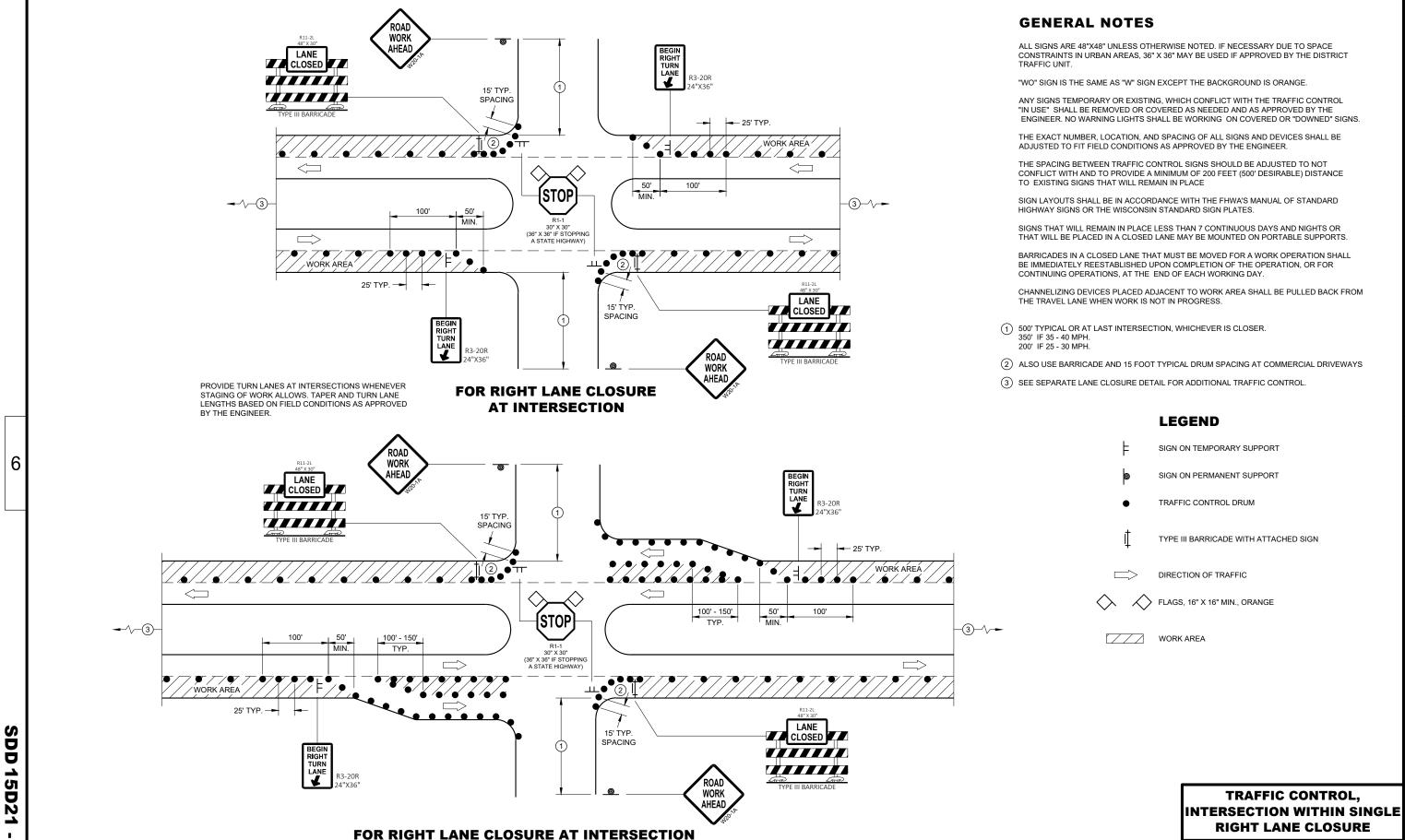
/S/ Andrew Heidtke
WORK ZONE ENGINEER

SDD 15D12 - 08

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(WITH RIGHT TURN BAY OPEN)

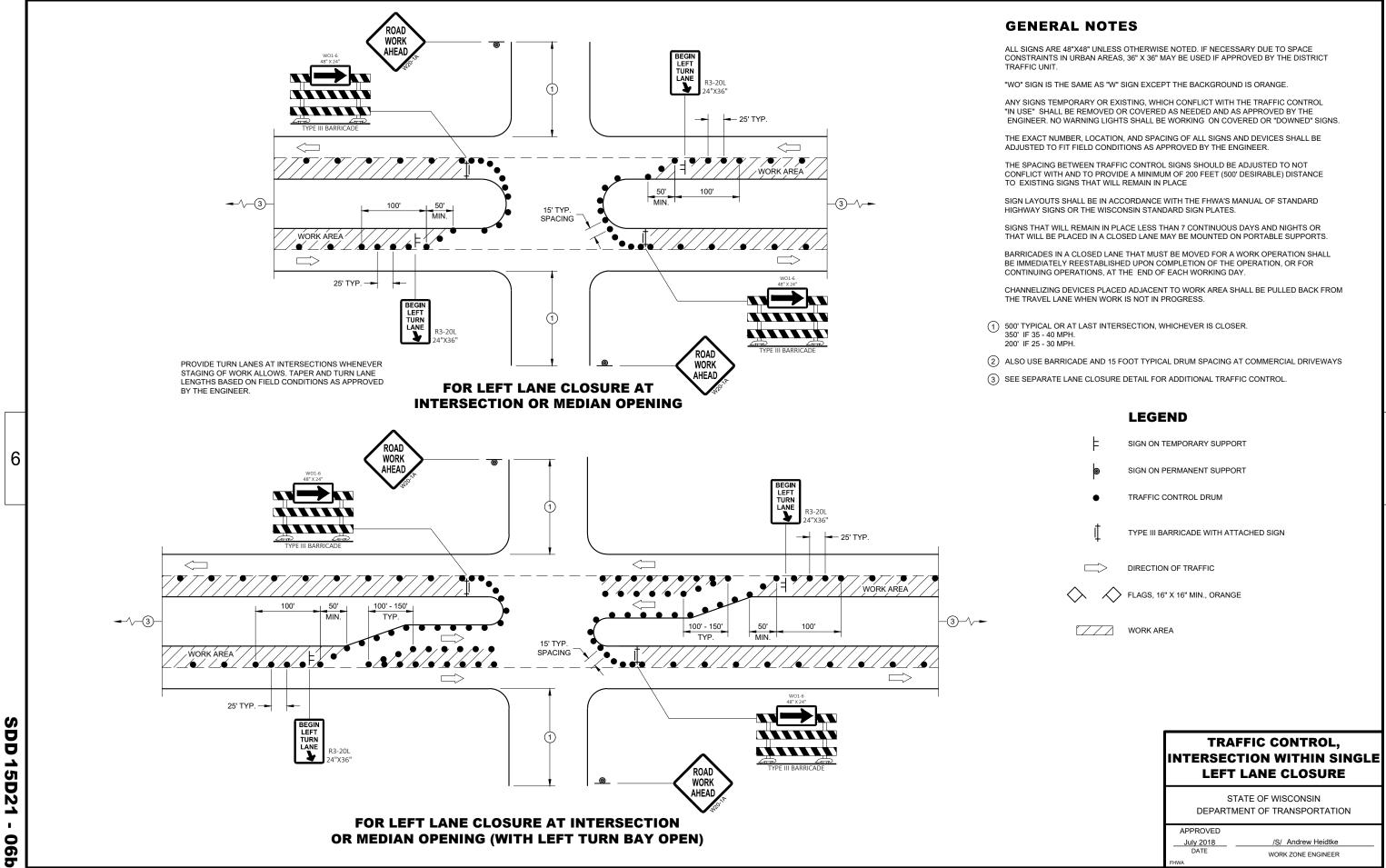
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**6**2

SDD 15D21 - 06a

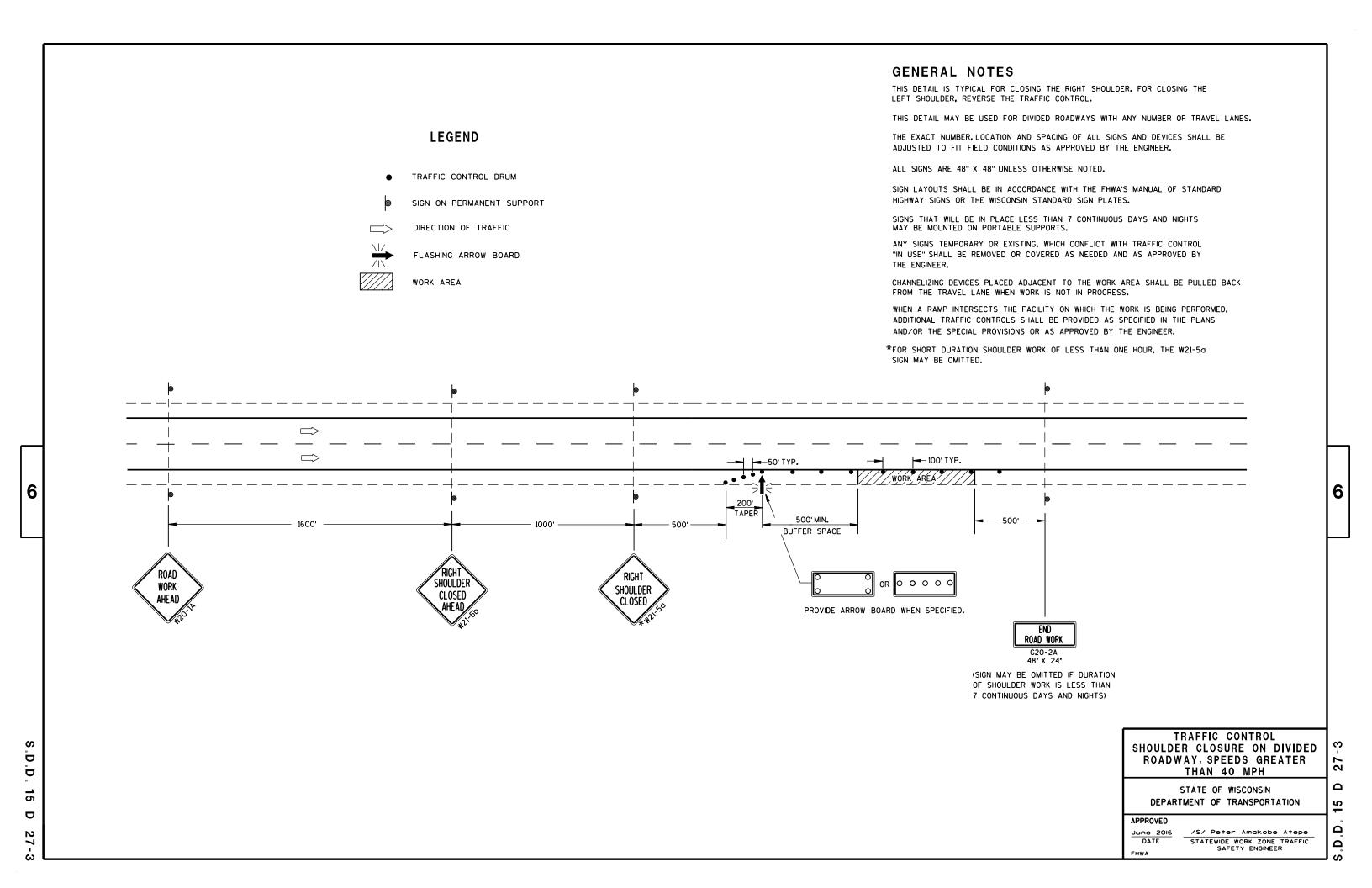
STATE OF WISCONSIN

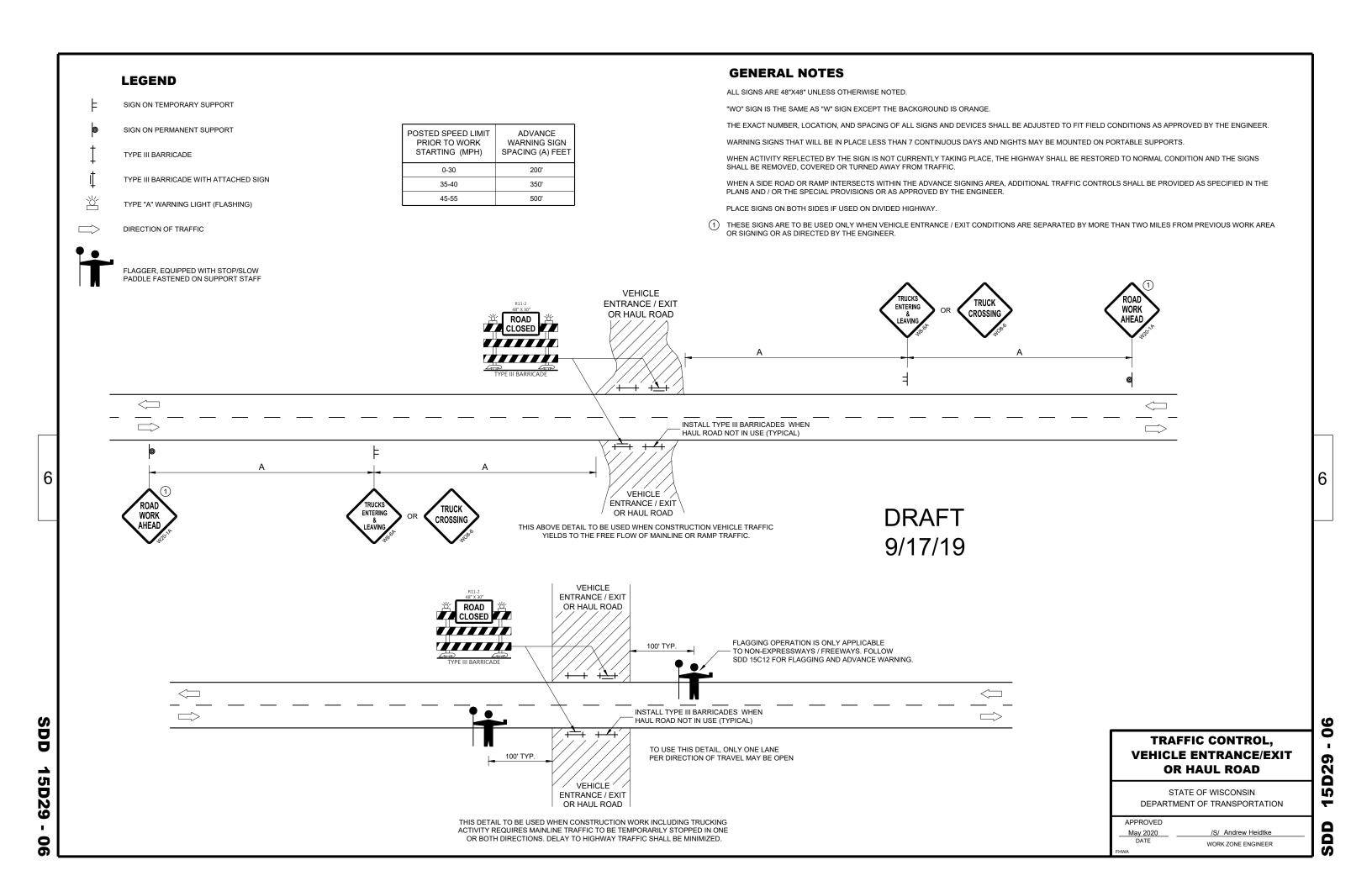
DEPARTMENT OF TRANSPORTATION



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WORK ZONE ENGINEER







TUBULAR STEEL POSTS

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

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

#### URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH** 

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

4" X 6" WOOD POST

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

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

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- 11/2" DIAMETER HOLES

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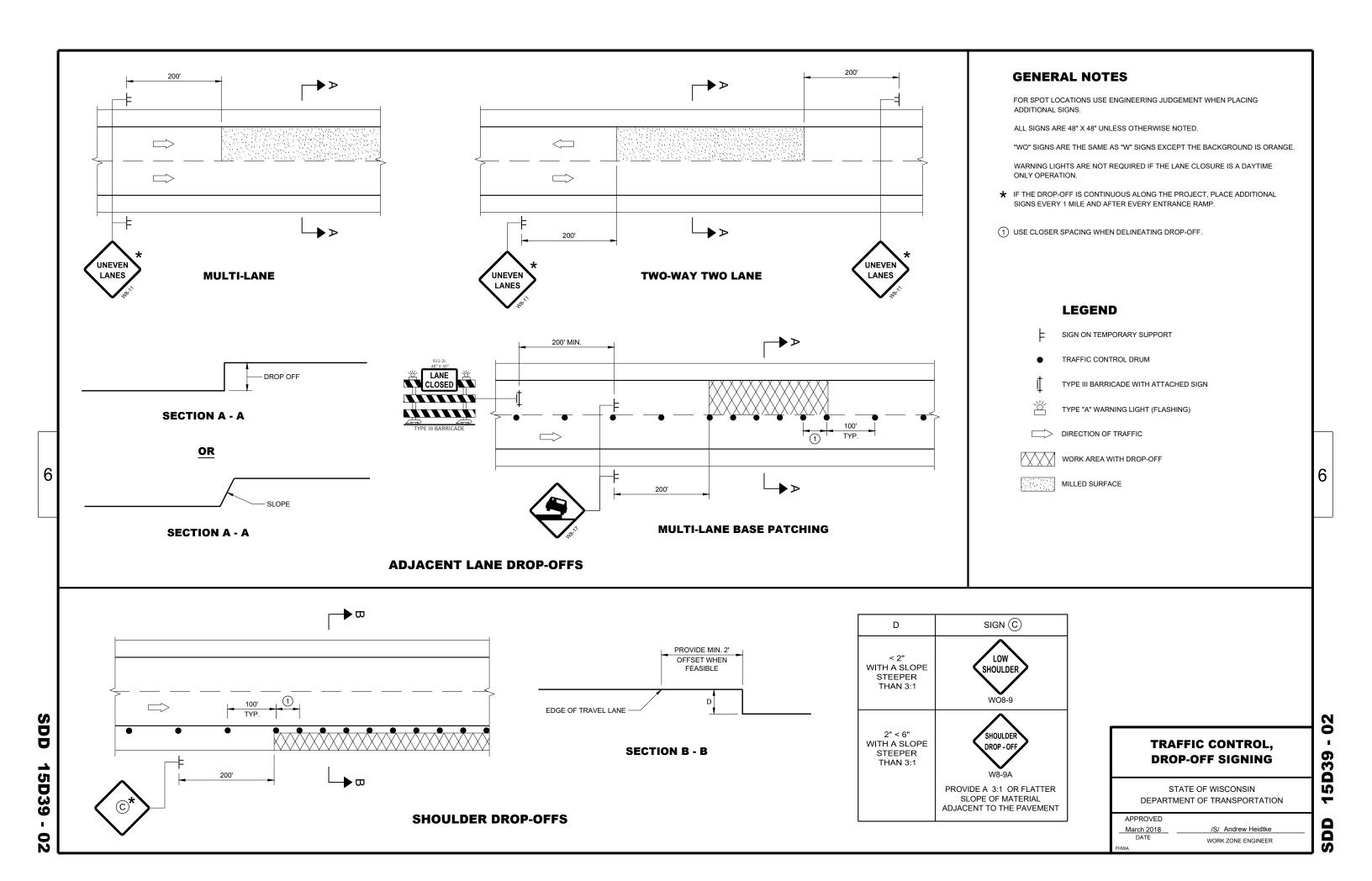
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DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

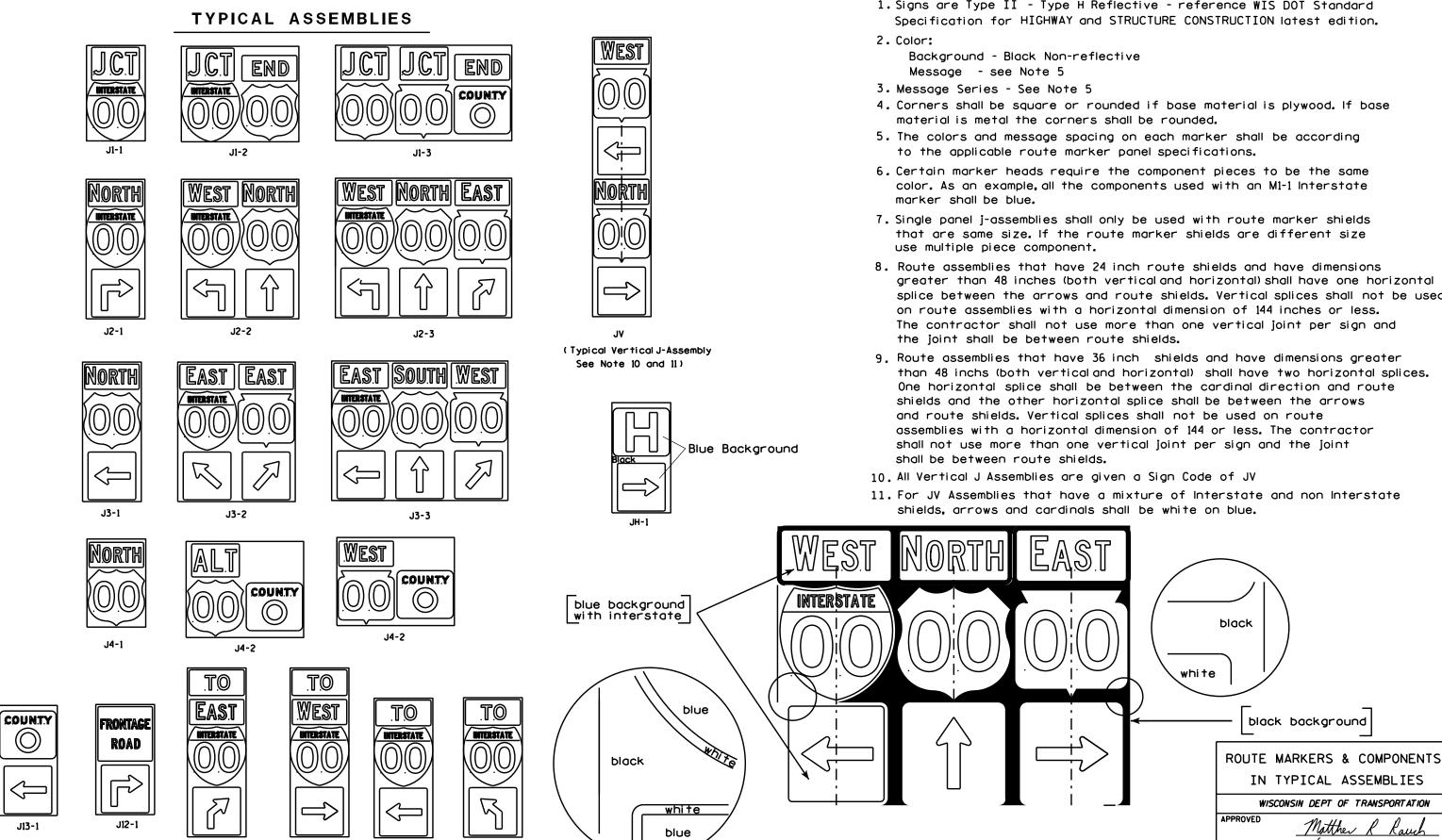
June 2017 DATE



#### NOTES

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

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



PROJECT NO:

J32-1

J22-1

J23-1

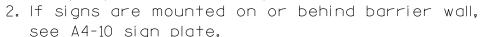
J33-1

PLOT BY: mscsja

PLATE NO. \_\_A2-15.8

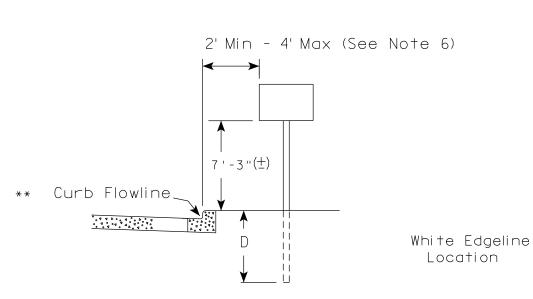
DATE 2/06/14

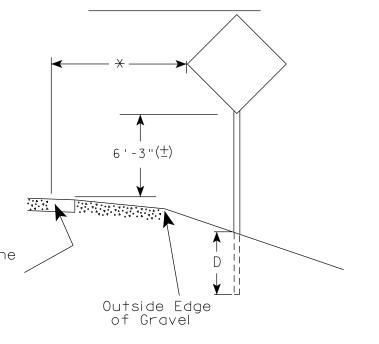
SHEET NO:



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

- 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  $5' - 3'' \stackrel{(\pm)}{-}$ .
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (+) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directd by the Engineer.





2' Min - 4' Max (See Note 6) 6'-3"(±) \*\* Curb Flowline D

5'-3"(士) White Edgeline  $D \parallel$ Location Outside Edge of Gravel

\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated.

That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

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.

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 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 COUNTY:

PLOT BY: mscj9h

PLOT NAME :

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

PLOT DATE: 13-MAY 2020 1:04



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



## **ELEVATION VIEW**

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



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

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

## GENERAL NOTES

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

# POST EMBEDMENT DEPTH

D
(Min)
4'
5'

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





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

HWY:

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

COUNTY:

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

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

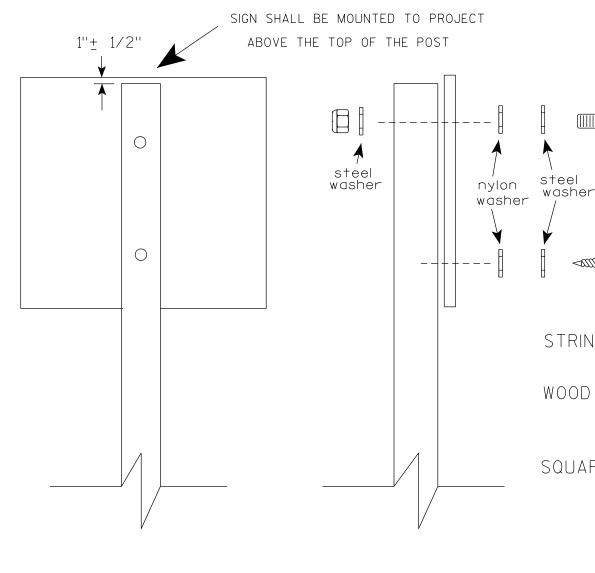
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



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

APPROVED

DATE 4/1/2020

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

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A48.DGN

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

WISCONSIN DEPT OF TRANSPORTATION

Matther ≠or State Traffic Engineer

SHEET NO:



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

DATE 2/05/15

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

For State Traffic Engineer



# BANDING



SINGLE SIGN





# WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

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

CHANNEL

## 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

DATE 6/10/19

PLATE NO. A5-9.4

Ε

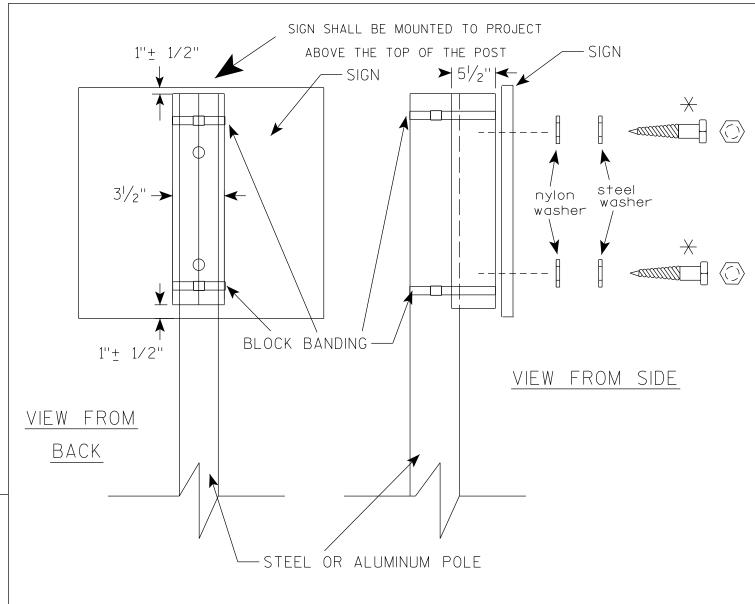
State Traffic Engineer

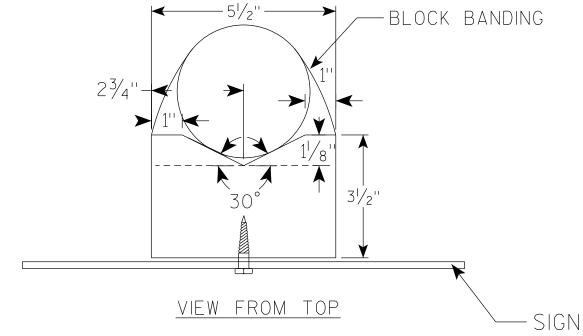
COUNTY:

PLOT NAME :

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

PROJECT NO:





# GENERAL NOTES

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

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

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

BLOCK BANDING DETAIL ( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

Matthew R

APPROVED

For State Traffic Engineer

SHEET NO:

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

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

PROJECT NO:

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

PLOT DATE: 10-JUN 2019 4:15

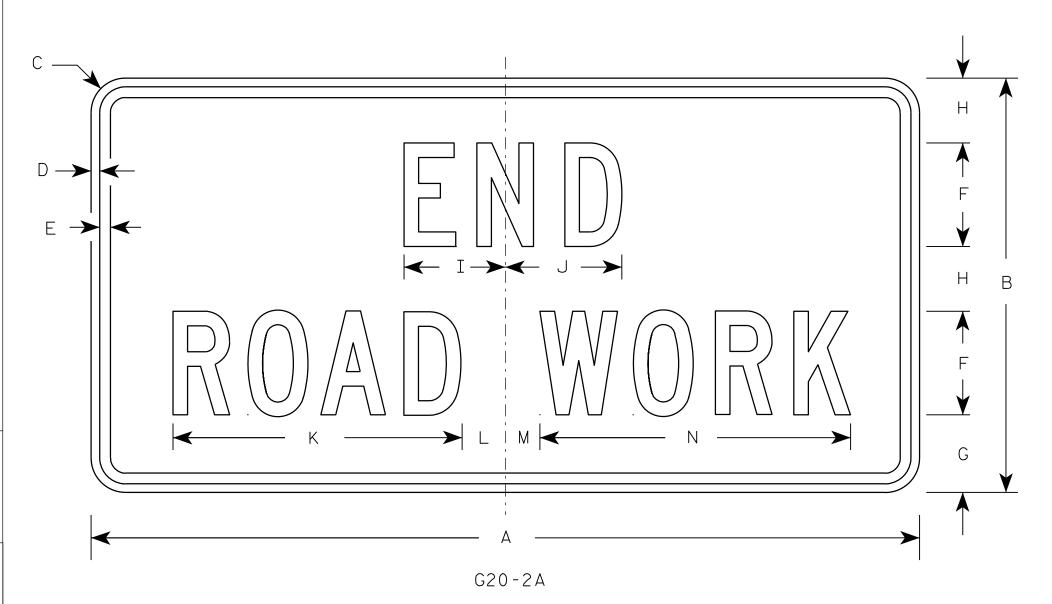
PLOT BY : mscj9h

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

2. Color:

Background - Orange Message - Black

- 3. Message Series 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.



Metric equivalent for this sign is:

SIZE					
1	900	mm	Χ	450	mm
2	1200	mm	Х	600	mm
3	1200	mm	Х	600	mm
4	1200	mm	X	600	mm
5	1200	mm	Х	600	mm

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	a	R	S	T	U	٧	w	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3//8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5  %	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2						·							8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Ra

For State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\G202A.DGN

HWY:

PROJECT NO:

PLOT DATE: 30-SEP-2009 09:31

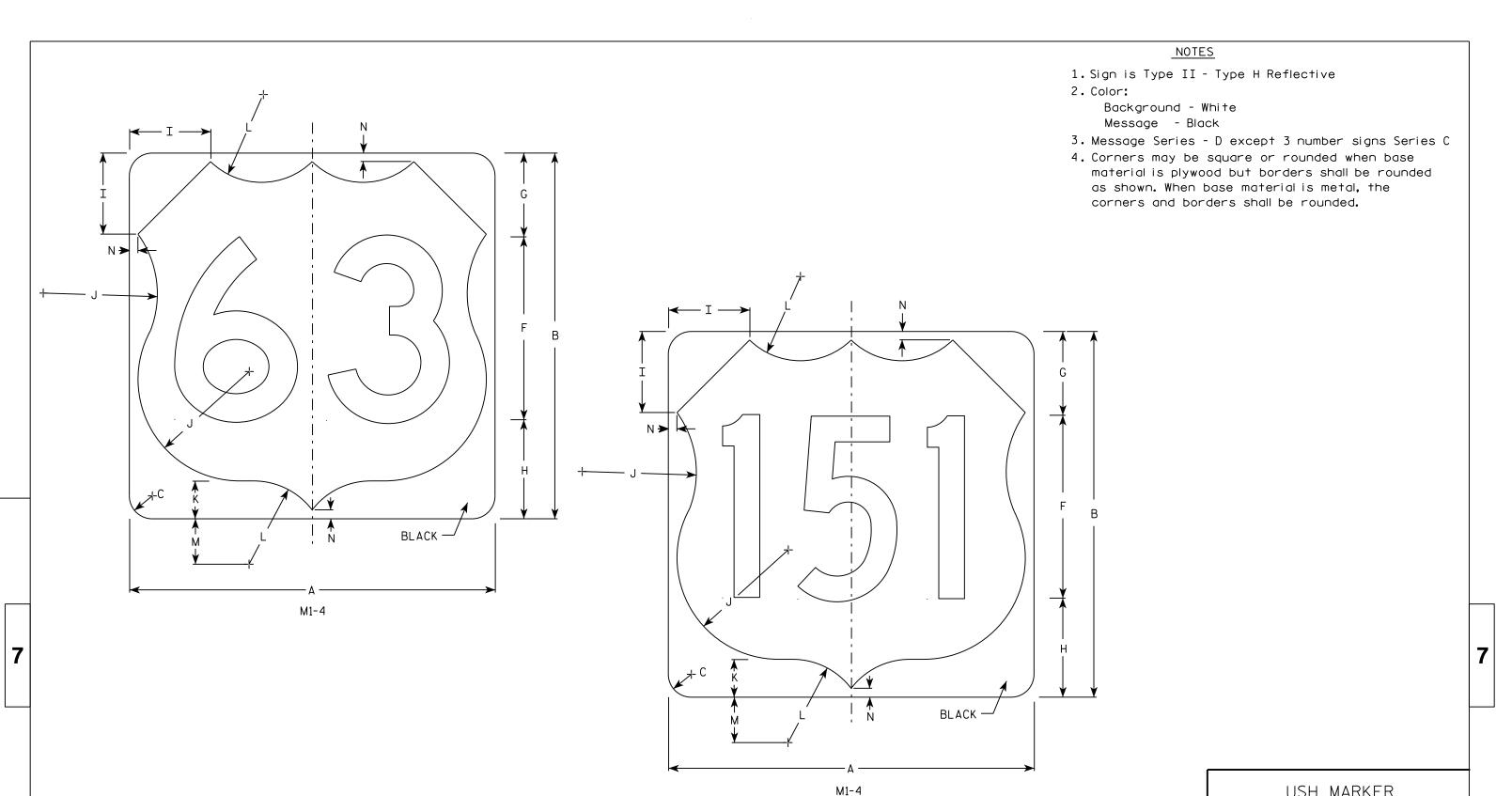
PLOT NAME :

PLOT BY : ditjph

PLOT SCALE : 5.561773:1.000000

WISDOT/CADDS SHEET 42

Ε



D Ε G Ν Z 2 24 24 | 1 1/2 7 1/2 2 1/2 5 1/2 5 1/2 6 1/2 1/2 4.0 36 2 1/4 7 1/4 11 1/4 3 3/4 8 1/4 4 1/2 36 8 1/4 9 1/4 3/4 9.0 18 36 2 1/4 7 1/4 11 1/4 3 3/4 8 1/4 4 1/2 3/4 36 9 1/4 9.0 18 8 1/4 8 1/4 9 1/4 7 1/4 11 1/4 3 3/4 8 1/4 4 1/2 3/4 36 36 | 2 1/4 18 9.0

COUNTY:

USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauh

For State Traffic Engineer

DATE 3/16/18

PLATE NO. M1-4.10

SHEET NO:

HWY:

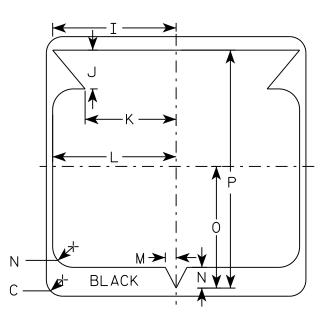
PROJECT NO:

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

Background - White Message - Black

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

	G F A H H
A A	<b></b>
M1-6	1



SIZE	Α	В	С	D	E	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																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 1/8	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 ¾	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

*for* State Traffic Engineer

DATE 3/16/18

PLATE NO. <u>M1-6.10</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\M16.DGN

HWY:

PROJECT NO:

PLOT DATE: 16-MAR-2018 14:11

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

PLOT SCALE : 6.655277:1.000000

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

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M2-1 Background White

Message - Black

MB2-1 Background - Blue

Message - White

MK2-1 Background - Green

Message - White

MM2-1 Background - White

Message - Green

MN2-1 Background - Brown

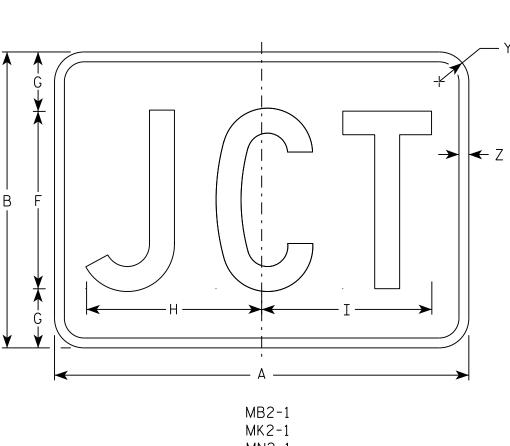
Message - White

MP2-1 Background - White

Message - Blue

MR2-1 Background - Brown

Message - Yellow



MN2-1

MR2-1

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	J	V	W	X	Υ	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 1/8	8 %																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40

COUNTY:

В

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch  $f_{or}$  State Traffic Engineer

DATE 10/15/15

PLATE NO. M2-1.12 Ε

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdplote\M21 DGN

PROJECT NO:

M2-1

HWY:

MM2-1

MP2-1

PLOT DATE . 01-DEC-2015 17:54

PLOT BY . \$\$ Diotuser \$\$ PLOT NAME :

PLOT SCALE • 4 864603•1 000000







MP3-1









HWY:



## NOTES

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

Background - See note 5 Message - See note 5

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

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

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

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

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 **SERIES** 

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

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

Ε

SHEET NO:

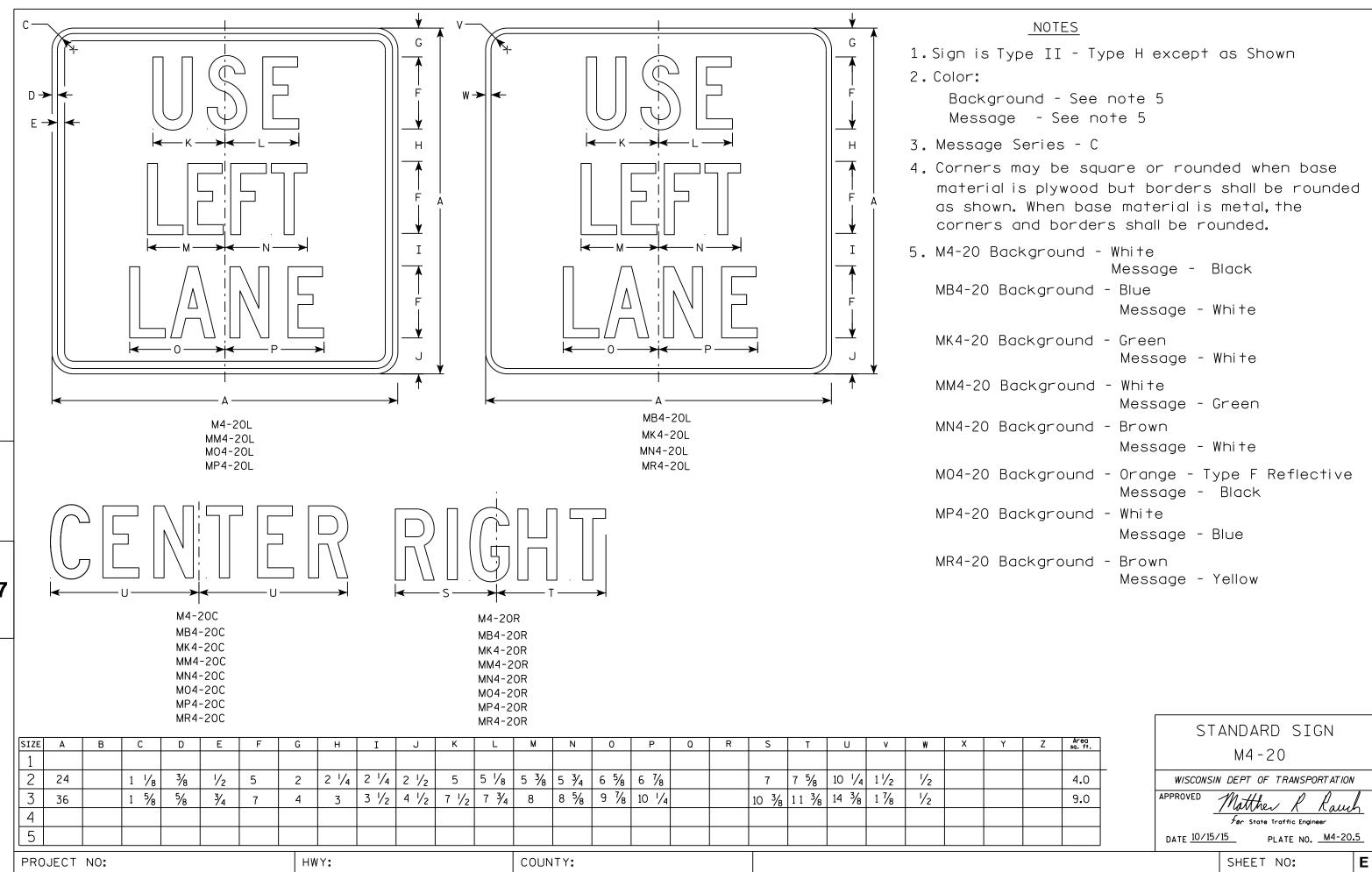
FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

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

PLOT SCALE . 11 675051.1 000000



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

Background - See Note 4 Message - See note 4

3. M5-52 Background - White

Message - Black

MB5-52 Background - Blue

Message - White

MK5-52 Background - Green

Message - White

MM5-52 Background - White

Message - Green

MN5-52 Background - Brown

Message - White

M05-52 Background - Orange - Type F Reflective

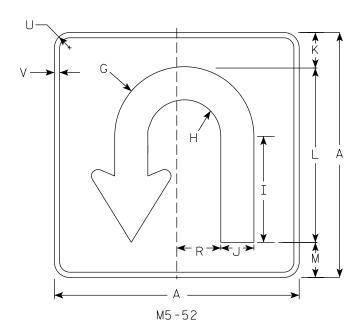
Message - Black

MP5-52 Background - White

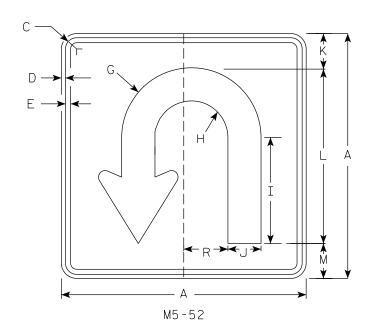
Message - Blue

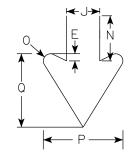
MR5-52 Background - Brown

Message - Yellow



HWY:





Arrow Detail

SIZE	А	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	a	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		6	3 1/8	9 1/8	2 1/8	3	15	3	3 1/8	5/8	6 1/8	6 3/4	3 3/4			1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		8 1/2	4 1/2	13	4 1/8	4 3/8	21 3/8	4 1/4	5 1/2	7/8	9 3/4	8 1/8	5 1/4			2 1/2	5/8					6.25
4																											
5																											

COUNTY:

STANDARD SIGN M5-52 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

₹o⊱tate Traffic Engineer

DATE 5/21/19

PLATE NO. <u>M5-52.1</u> Ε SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\M552.DGN

PROJECT NO:

PLOT DATE: 21-MAY-2019

PLOT BY : dotc4c

PLOT NAME :

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







MR6-1

HWY:



#### NOTES

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

Background - See note 4 Message - See note 4

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

Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

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

Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



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

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rawl For State Traffic Engineer

Ε

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

SHEET NO:

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

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:57

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

PLOT SCALE . 11 675051.1 000000

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

Background - White Message - See note 5

3. Message Series - C

PLOT NAME :

- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. The border strip and word message are reflectorized red.

A	
	G
	\\ \ F \\ \ \ \
E	     B 
D D	
R1-2	

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

COUNTY:

STANDARD SIGN R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch

 $f_{or}$  State Traffic Engineer

3/14 PLATE NO. R1-2.12

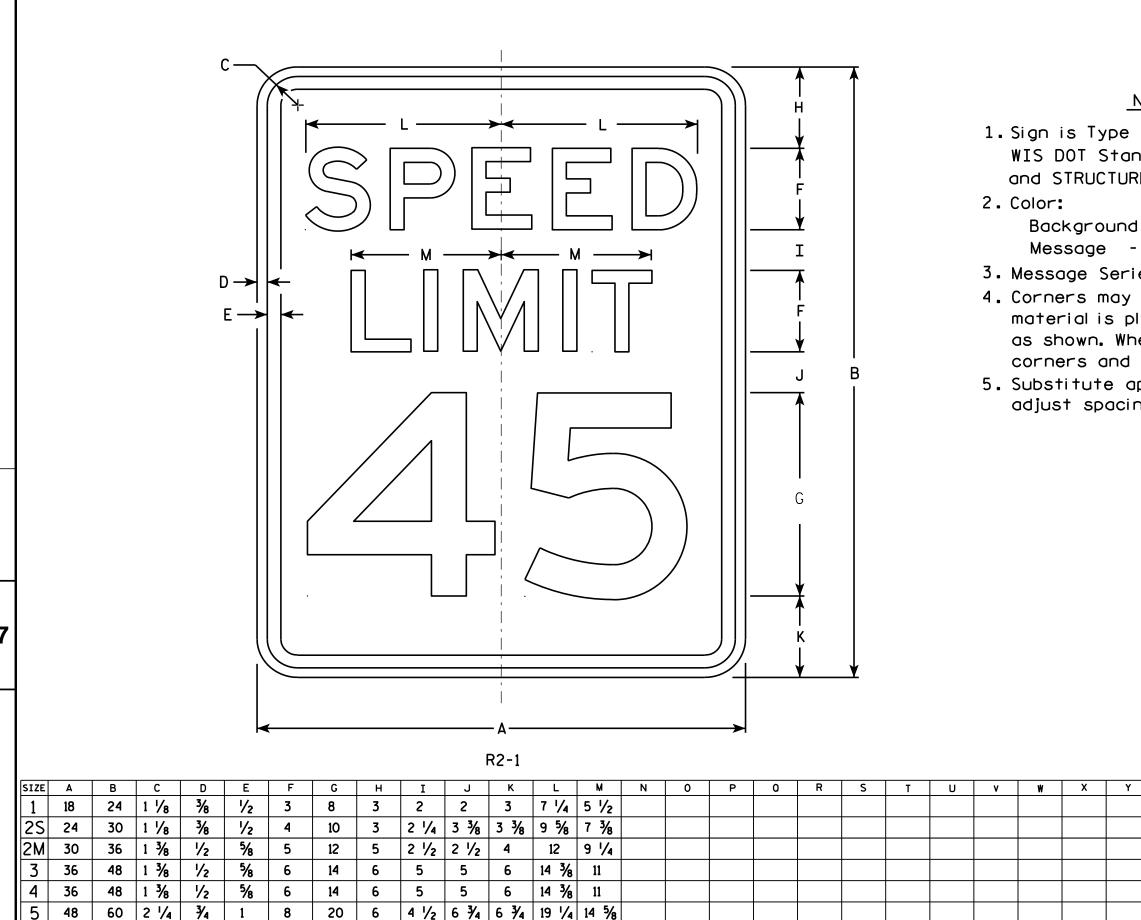
DATE 10/13/14 PLA

SHEET NO:

311221

PROJECT NO:

HWY:



COUNTY:

## NOTES

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

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.

3.0

5.0

7.5

12.0

12.0

20.0

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

PROJECT NO:

HWY:

PLOT DATE: 28-MAY-2010 08:32

PLOT BY : ditjph

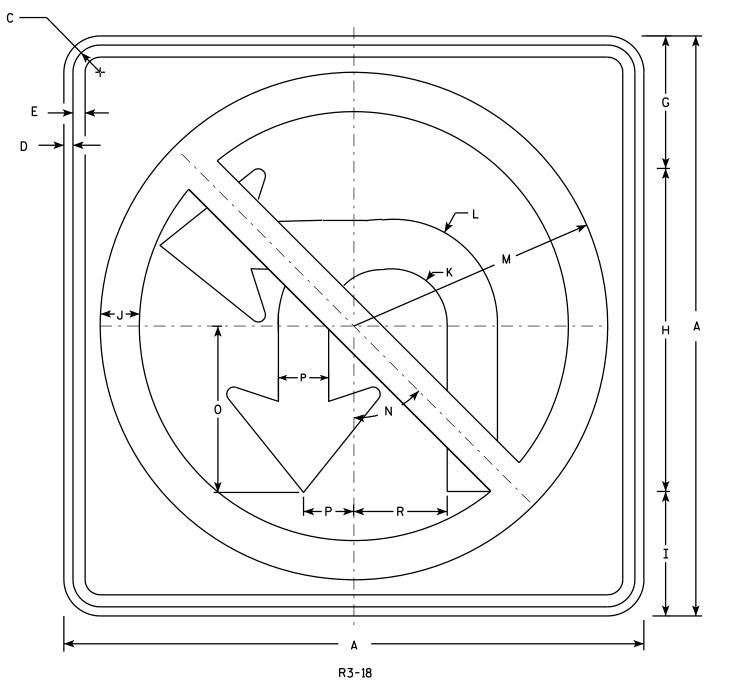
PLOT NAME :

PLOT SCALE: 4.717577:1.000000

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

Background - White Message - See note 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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



SIZE D 0 2S 3/8 5 1/2 13 3/8 5 1/8 1 5/8 2 1/4 4 1/4 10 1/2 45° 6 3/8 2 1/8 24 1 1/8 1/2 3 % 4.0 2M 20 7 3/4 2 1/2 3 3/8 6 1/2 15 3/4 45° 103/8 3 1/8 36 1 1/8 5/8 ₹4 5 3/4 9.0 3 1 1/8 5/8 3/4 20 7 3/4 2 1/2 3 3/8 6 1/2 15 3/4 45 103/8 3 1/8 5 3/4 36 9.0 4 20 | 7 3/4 | 2 1/2 | 3 3/8 | 6 1/2 | 15 3/4 | 45 | 103/8 | 3 1/8 36 1 1/8 5/8 3/4 5 3/4 9.0 5 26 3/4 10 1/4 3 1/4 4 5/8 8 5/8 2 1/4 21 45° | 13 ¾ 4 1/8 7 3/4 48

COUNTY:

STANDARD SIGN R3-18

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Lauch
For State Traffic Engineer

DATE 11/21/10

10 PLATE NO. R3-18.2
SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R318.DGN

PROJECT NO:

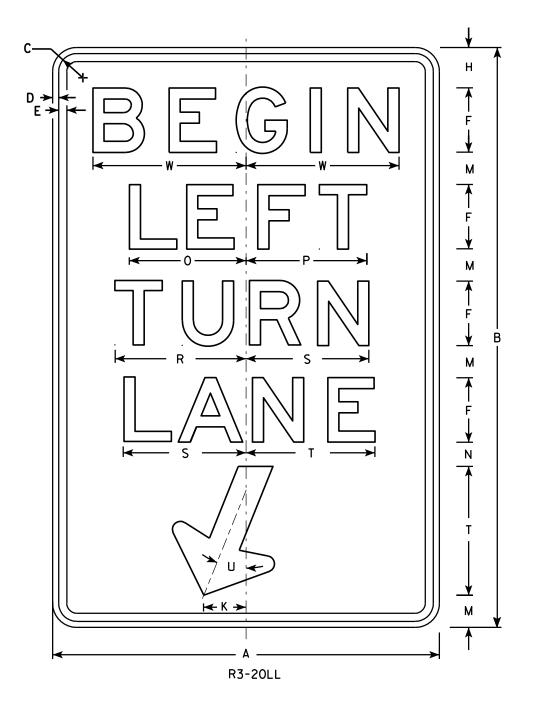
HWY:

PLOT DATE: 21-DEC-2010 10:58

PLOT NAME :

PLOT BY: dotsja

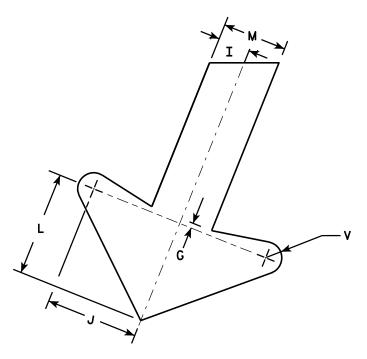
PLOT SCALE: 5.959043:1.000000



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

Background - White Message - Black

- 3. Message Series 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.



ARROW DETAIL

PLOT NAME :

SIZE	Α	В		С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																												
25	24	36	5 1	l 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 %	8	22°	1/2	9 1/2				6.0
2M	24	36	5 1	l 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 %	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7	8	22°	1/2	9 1/2				6.0
3	36	54	1	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 1/8	3	2 1/4	10 %	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																												
5																												

COUNTY:

STANDARD SIGN R3-20LL

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rawh

for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20LL.1

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R320LL.DGN

HWY:

PROJECT NO:

PLOT DATE: 15-OCT-2010 14:38

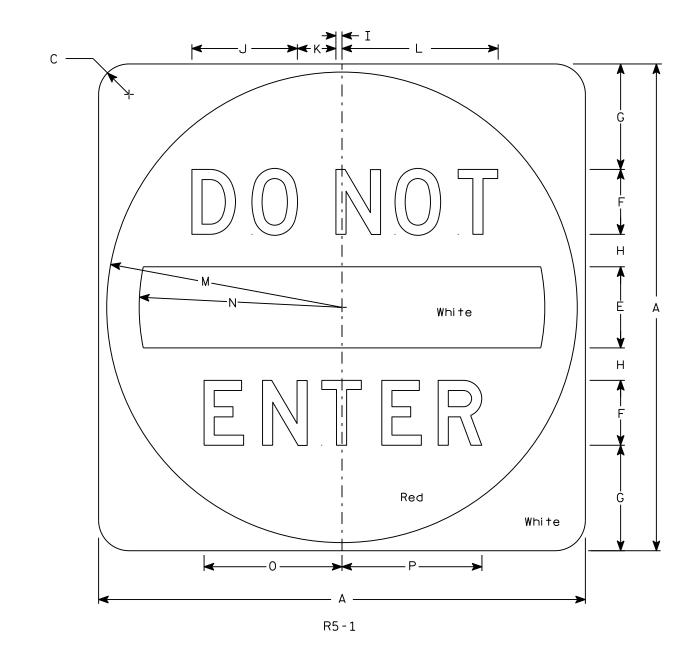
PLOT BY : dotsja

PLOT SCALE: 5.959043:1.000000

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

Background - See detail Message - White

3. Message Series - D



SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z	Area sq. ft.
1																											
25	30		1 1/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 %	14 1/2	12 1/2	8 1/2	8 %											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 ¾											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 1/8											16.0

COUNTY:

STANDARD SIGN R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauch

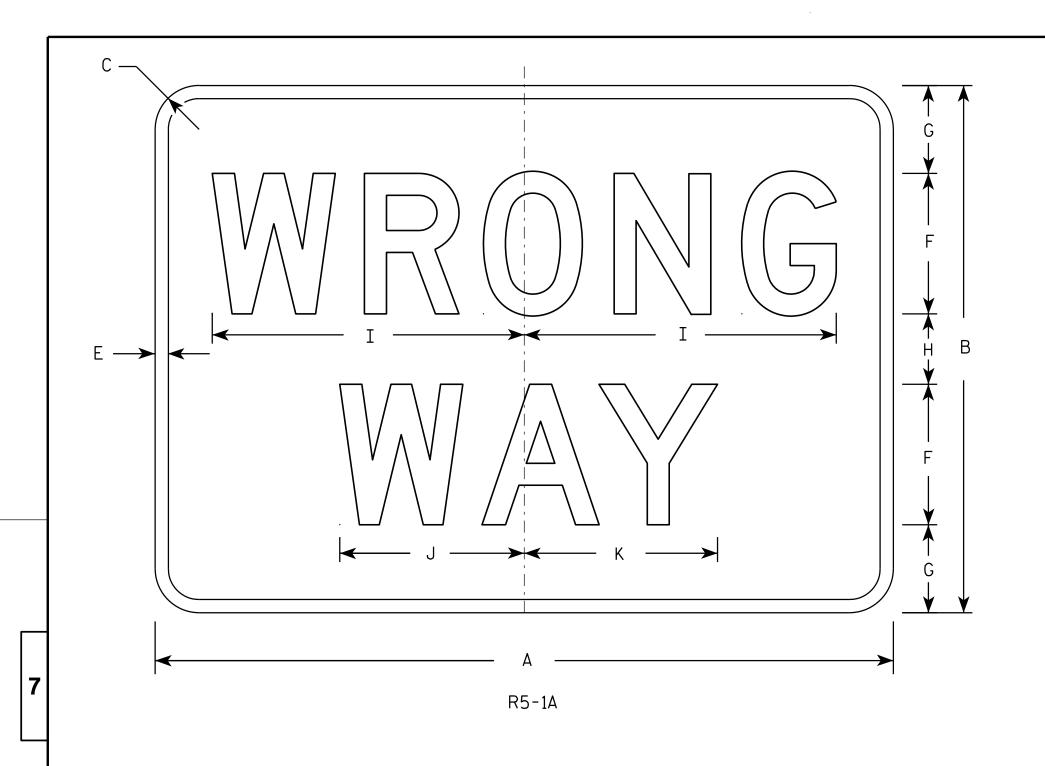
DATE <u>3/15/18</u>

8 PLATE NO. R5-1.16
SHEET NO:

PLOT SCALE : 5.914594:1.000000

HWY:

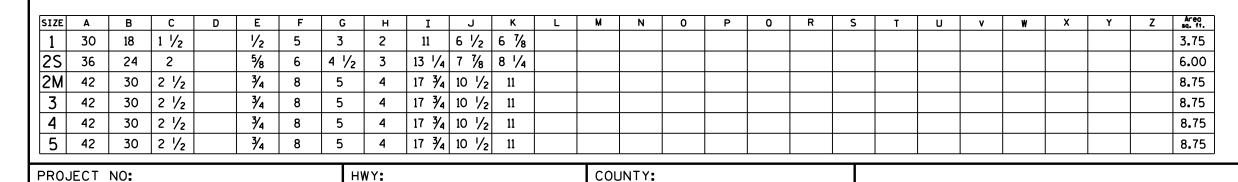
PROJECT NO:



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

Background - Red Message - White

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



STANDARD SIGN R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Raud

For State Traffic Engineer PLATE NO. R5-1A.2

DATE 12/17/10

SHEET NO:

PROJECT NO:

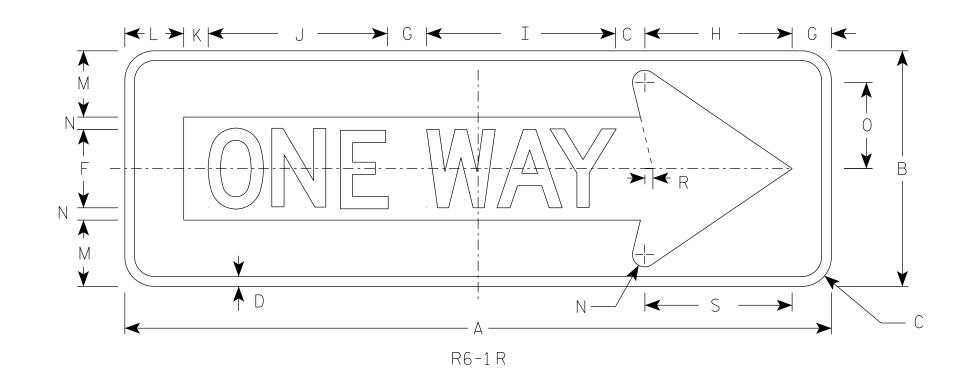
PLOT NAME :

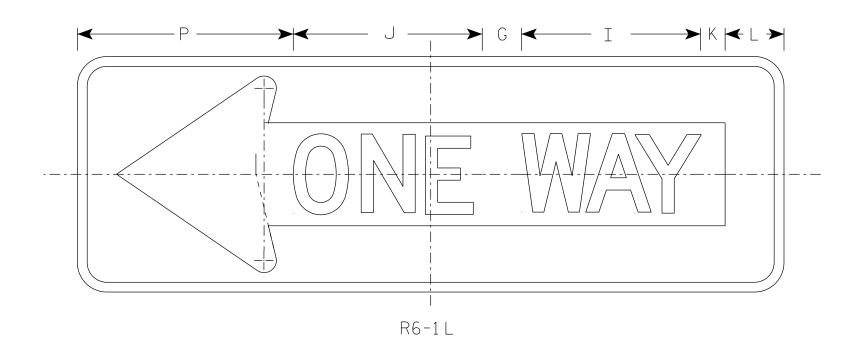
- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - BLACK

Message - BLACK LEGEND & WHITE ARROW & BORDER

3. Message Series - D





SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Υ	Z	Area sq. ft.
1																											
25	36	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 %	14 1/2	1 1/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 1/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 %	14 1/2	1 1/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN R6-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch
For State Traffic Engineer

DATE <u>07/11/18</u>

PLATE NO. <u>R6-1.3</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R61.dgn

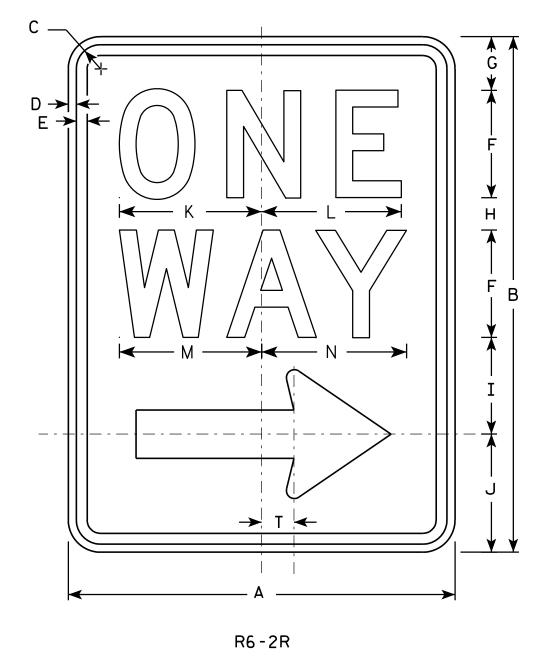
PROJECT NO:

PLOT DATE: 11-JUL-2018

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42

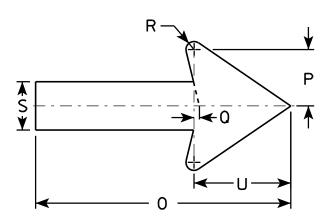
1



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

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. R6-2L same as R6-2R except arrow points to the left.



SIZE	Α	В	С	D	E	F	G	Η	I	J	K	L	М	N	0	Р	0	R	S	Т	J	٧	W	Х	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 ½	6 %	6 1/2	6 %	6 ¾	11 %	2 %	1/4	3⁄8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 ½	7	8 1/8	8 1/8	8 1/2	8 %	16	3 ½	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 %	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 %	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 %	1/2	3/4	4 3/4	3	9					
4	36	48	1 %	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 ½	24	5 %	1/2	3/4	4 3/4	3	9					
5	·										·									·				·		
1																										

COUNTY:

STANDARD SIGN R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthe R Rauch

For State Traffic Engineer

DATE 11/2/10

PLATE NO. R6-2.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R62.DGN

HWY:

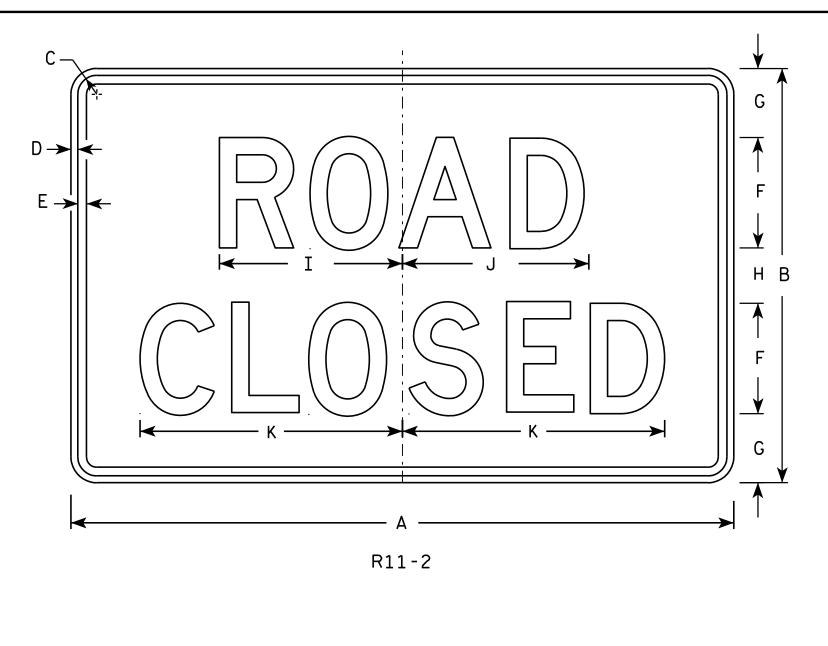
PROJECT NO:

PLOT DATE: 02-NOV-2010 15:25

PLOT NAME :

PLOT BY: ditjph

PLOT SCALE: 4.469282:1.000000

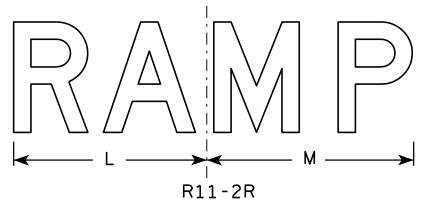


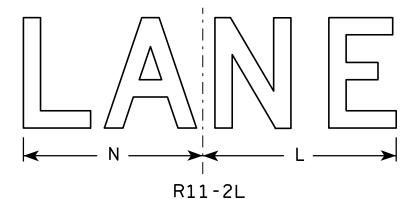
# <u>NOTES</u>

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

Background - White Message - Black

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





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

STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

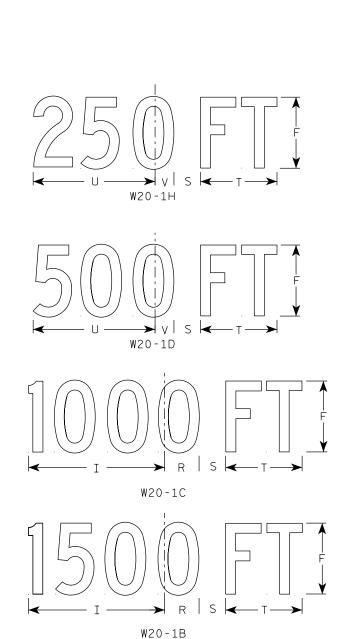
SHEET NO:

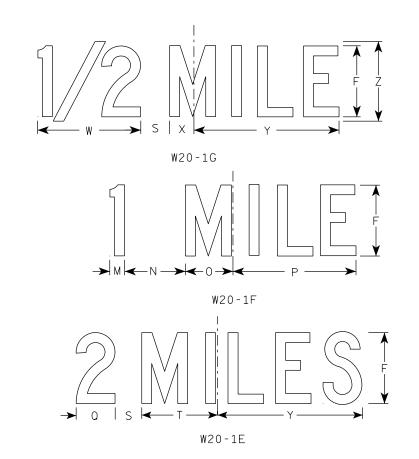
PLOT BY: mscj9h

- 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	٧	W	Х	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 7/8	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 5/8	13 3/4	2 1/8	11 7/8	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 ¾	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 3/4	2 1/8	11 7/8	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 & Paulo

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

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W201.DGN

PROJECT NO:

W20-1A

PLOT DATE: 25-MARCH-2020

PLOT BY : dotc4c

# <u>NOTES</u>

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

Background - Orange Message - Black

- 3. Message Series See Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. " LANE" is Series B. Allother copy is Series C.

500 FT

W20-5C

1500 FT



PLOT BY: mscj9h



									W20-	5A																	W 4	20-3F
SI	ZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	Х	Y	Z	Area sq. ft.
	1	36	6	1 5/8	5/8	3/4	5	<b>1</b> /8	2 1/2	13 1/8	10 ¾	9 1/2	14 1/4	13 %	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 %	10 1/8	2 1/2	1 3/4	8	9.0
2	?S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
2	M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
	3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
	4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 5/8	12	2 %	7 1/2	13 1/2	3 %	2 3/8	10 %	16.0
	5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0

COUNTY:

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch

For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

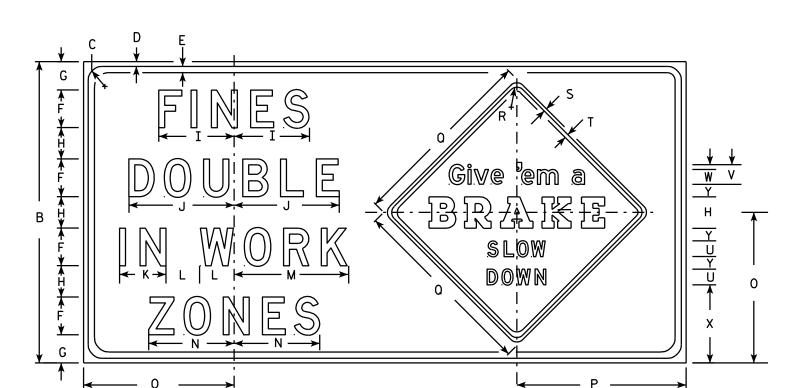
SHEET NO:

PROJECT NO:

HWY:

W20-56A

W20-55A



W21-62

HWY:

## 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 - (See Note 5) Message - Black

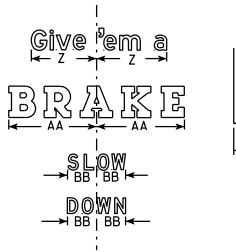
3. Message Series -

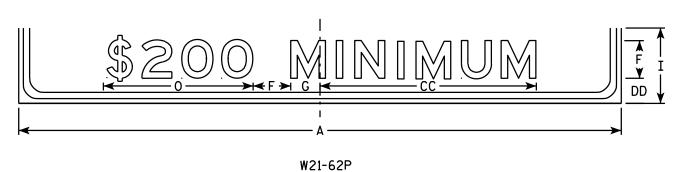
Fines Double Message - All lines are Series D Give 'em a Brake -

Line one is Series E, line two is a Special Graphic Series and lines three and four are Series D.

- 4. The base material shall be plywood. Corners may be square or rounded, but borders shall be rounded as shown. The base material for Give 'em a Brake sign can be a seperate sheet of aluminum with the corners and borders rounded as shown. This seperate panel shall then be attached to the plywood with aluminum or stainless steel sheet metal screws.
- 5. Background for the Give 'em a Brake sign shall be Type F reflective orange.

PLOT NAME :





SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	AA	BB	СС	DD	Area sq. ff.
1 1																															
25																															
2M																															
3	96	48	2 1/4	3/4	1	6	4 1/2	5	12	16 3/4	7 3/8	5 ½	18 1/4	13 %	24	27	30	1 3/8	1/2	5/8	2 1/2	3 1/8	2 3/8	12 1/2	2	10 ¾	14	4 %	34 1/2	4	32.0
4																															
5																															

COUNTY:

STANDARD SIGN W21-62

......

PROVED Matther & Raws

SHEET NO:

PROJECT NO:

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

Background - Orange Message - Black

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

	G
	<b>¥</b> B
W01-6	

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5

COUNTY:

STANDARD SIGN WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

For State Traffic Engineer

13 PLATE NO. <u>W01-6.1</u>

DATE <u>11/18/13</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W016.DGN

HWY:

PROJECT NO:

PLOT DATE : 28-FEB-2014 11:37

PLOT NAME :

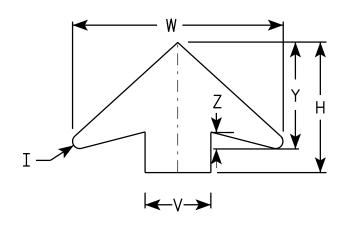
PLOT BY: mscj9h

PLOT SCALE: 5.837526:1.000000

# <u>NOTES</u>

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color: \* Background - ORANGE\* Message - BLACK
- 3. Message Series C for numbers Series E for wording
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

\*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	C	٧	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3∕8	9 3/4	1 5/8	9.0
2S	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	<b>½</b>	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9 3%	12	8	25 %	3∕8	13	2	16.0
2M	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	<b>1</b> / <sub>8</sub>	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9 3/8	12	8	25 %	3⁄8	13	2	16.0
3	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	<b>7</b> ⁄8	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9 3%	12	8	25 %	3⁄8	13	2	16.0
4	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	<b>7</b> ⁄8	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9 3%	12	8	25 %	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	<b>1</b> / <sub>8</sub>	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 %	3∕8	13	2	16.0

STANDARD SIGN W03 - 5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Raul

DATE 11/20/13

PLATE NO. W03-5.1

SHEET NO:

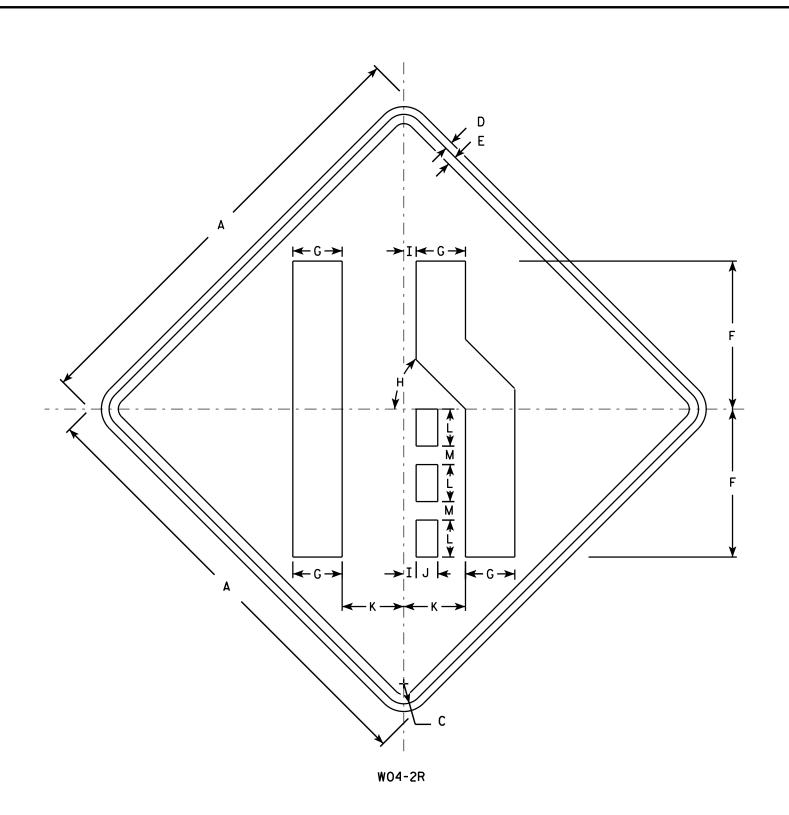
FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W035.DGN

PROJECT NO:

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

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W04-2L is the same as W04-2R except the symbolis reversed along the vertical centerline.



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

STANDARD SIGN W04 - 2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

ForState Traffic Engineer

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

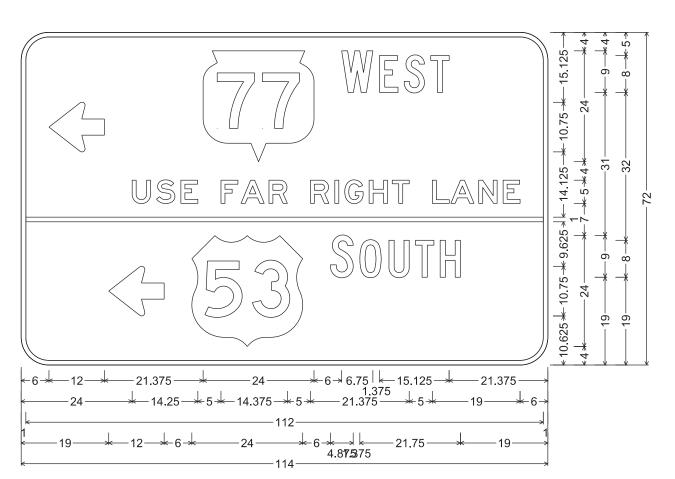
SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W042.DGN

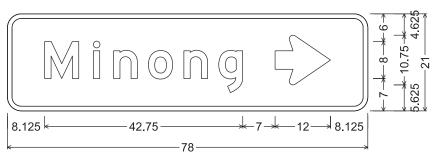
PROJECT NO:

PLOT DATE: 20-NOV-2013 11:43





6.000" Radius, 1.000" Border; "WEST", C; "USE", E; "FAR", E; "RIGHT", E; "LANE", E; "SOUTH", C



D1-1; 3.000" Radius, 1.000" Border; "Minong", E



D1-1; 3.000" Radius, 1.000" Border; "Minong", E

HWY: USH 53 PROJECT NO: 1195-01-76

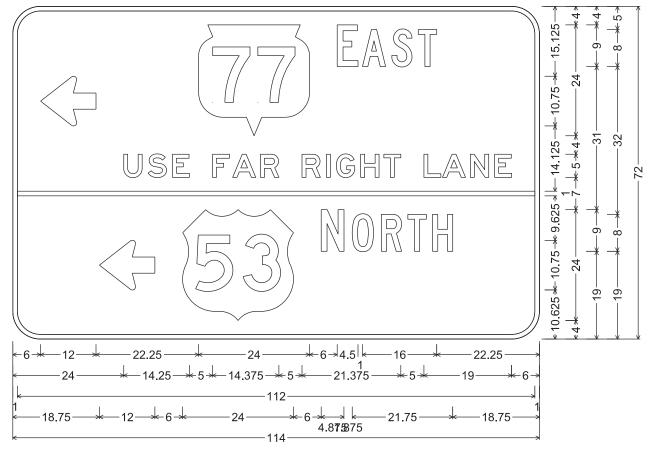
NOTES

1. All Signs Type II - Type H Reflective

2. Color:

Background - Green Message - White

3. Message Series - As noted



6.000" Radius, 1.000" Border;

"EAST", C; "USE", E; "FAR", E; "RIGHT", E; "LANE", E; "NORTH", C

COUNTY: WASHBURN PERMANENT SIGNING

PLOT NAME :

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

SHEET NO:

3.000" Radius, 1.000" Border, 0.750" Indent

# NOTES

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

Background - Yellow Message - Black

3. Message Series - E

PROJECT NO:1195-01-76 HWY:USH 53 COUNTY:WASHBURN PERMANENT SIGNING SHEET NO: 1

FILE NAME: C:\CAEfiles\Projects\tr\_d8\8651a220.dgn

PLOT DATE: 25-FEB 2020 4:24

PLOT BY: mscj9h

PLOT NAME:

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

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STAGE 1 - AliProf-STH77E

	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL	(CY)	
						<b>EXPANDED</b>	
	CUT	FILL	CUT	FILL	CUT	FILL	MASS ORDINATE
STATION					1.00	1.30	
			NOTE 1	NOTE 3	NOTE 1		NOTE 8
20+75	118.16	3.57	0	0	0	0	0
21+00	91.50	11.79	97	7	97	9	88
21+25	82.92	0.92	81	6	178	17	161
21+50	68.61	0.00	70	0	248	17	231
21+70	52.57	0.00	45	0	293	17	275

STAGE 1 - AliProf-STH77W

	AREA (SF	<del>-</del> )	INCREMENTAL VOL (CY) (UNADJUS	STED)	<b>CUMULATIVE VOL (CY)</b>		
						EXPANDE	D
	CUT	FILL	CUT	FILL	CUT	FILL	MASS ORDINATE
STATION					1.00	1.30	
			NOTE 1	NOTE 3	NOTE 1		NOTE 8
08+20	34.40	0.00	0	0	0	0	0
08+50	38.81	0.00	41	0	41	0	41
08+75	46.85	0.00	40	0	80	0	80
09+00	56.59	0.00	48	0	128	0	128
09+25	86.90	7.35	66	3	195	4	190
09+34	97.02	21.96	30	5	224	11	214

COUNTY: WASHBURN HWY: US 53 PROJECT NO: 1195-01-76 EARTHWORK

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\152345\C3D\SHEETSPLAN\090201.DWG LAYOUT NAME - 02 PLOT BY: JARROD S. STARREN PLOT DATE : 7/27/2020 10:09 AM PLOT SCALE: 1 IN:5 FT HORZ. / 1 IN:5 FT VERT. WISDOT/CADDS SHEET 49

9

E

SHEET

STAGE 2 - AliProf-US53SB AREA (SF) INCREMENTAL VOL (CY) (UNADJUSTED) CUMULATIVE VOL (CY) **EXPANDED** CUT FILL CUT FILL CUT FILL MASS ORDINATE **STATION** 1.30 NOTE 1 NOTE 8 NOTE 1 NOTE 3 689+00 10.21 12.19 0 0 0 0 0 689+50 10.46 0.09 19 19 15 11 4 690+00 12.28 21 40 15 25 0.11 0 690+50 12.64 0.02 23 63 15 48 0 16 69 10.83 0.29 22 85 691+00 0 19 16 89 691+50 10.21 0.02 104 26.14 0.49 34 138 17 122 692+00 0 18 155 692+40 20.66 1.20 35 173 692+50 19.23 0.54 180 19 162 693+00 15.92 1.37 33 213 21 192 693+50 16.05 30 242 24 218 1.53 28 694+00 15.95 1.49 30 272 244 15.34 2.55 29 301 33 268 694+50 695+00 13.85 5.79 27 328 43 285 54 300 695+50 13.75 3.13 26 354 14.90 3.40 27 380 62 319 696+00 66 346 31 411 696+50 18.84 0.00

#### STAGE 3 - AliProf-US53NB

0.00

0.00

28

697+30

	AREA (SF	)	INCREMENTAL VOL	(CY) (UNADJUSTED)	CUMULATIVE VOL (CY)			
STATION	СИТ	FILL	сит	FILL	CUT	FILL 1.30	MASS ORDINATE	
OTATION			NOTE 1	NOTE 3	NOTE 1	1.00	NOTE 8	
683+65	9.04	0.00	0	0	0	0	0	
684+50	9.30	0.00	29	0	29	0	29	
685+00	9.71	0.00	18	0	46	0	46	
685+50	10.07	0.00	18	0	65	0	65	
686+00	11.15	0.00	20	0	84	0	84	

#### STAGE 3 - AliProf-US53NB

	AREA (SF	)	INCREMENTAL VOL	(CY) (UNADJUSTED)	CUMULATIVE VOL (CY)		
						<b>EXPANDED</b>	
	CUT	FILL	CUT	FILL	CUT	FILL	MASS ORDINATE
STATION						1.30	
			NOTE 1	NOTE 3	NOTE 1		NOTE 8
688+50	29.84	0.00	0	0	0	0	0
689+00	13.56	6.41	40	6	40	8	32
689+50	13.32	15.81	25	21	65	34	31
690+00	14.10	7.38	25	21	90	62	28
690+50	14.89	6.75	27	13	117	79	38
691+70	14.87	8.75	66	34	183	124	59

#### STAGE 3 - AliProf-US53SB

	AREA (SF	)	INCREMENTAL VOL	(CY) (UNADJUSTED)	CUMULATIVE VOL (CY)		
						<b>EXPANDED</b>	
	CUT	FILL	CUT	FILL	CUT	FILL	MASS ORDINATE
STATION						1.30	
			NOTE 1	NOTE 3	NOTE 1		NOTE 8
686+00	15.74	13.87	0	0	0	0	0
686+50	19.25	15.69	32	27	32	36	-3
687+00	61.40	0.00	75	15	107	54	53

PROJECT NO: 1195-01-76 HWY: US 53 COUNTY: WASHBURN EARTHWORK SHEET EARTHWORK SHEET PLOT DATE: 7/27/2020 10:09 AM PLOT BY: JARROD S. STARREN PLOT NAME: WISDOT/CADDS SHEET 49 WISDOT/CADDS SHEET 40 WIS

9

66

439

374

LAYOUT NAME - 04

						EXPANDE	D
STATION	CUT	FILL	CUT	FILL	СИТ	<b>FILL</b> 1.30	MASS ORDINATE
STATION			NOTE 1	NOTE 3	NOTE 1	1.50	NOTE 8
679+00	13.39	0.85	0	0	0	0	0
679+50	13.56	1.15	25	2	25	2	23
680+00	13.98	3.08	26	4	50	7	43
680+50	14.00	17.31	26	19	76	32	44
681+00	14.39	12.99	26	28	103	69	34
681+50	14.16	10.27	26	22	129	97	33
682+00	14.51	7.70	27	17	156	118	37
682+50	15.66	4.12	28	11	184	132	51
683+00	19.66	0.25	33	4	216	138	79
683+50	25.86	0.00	42	0	258	138	120
683+65	26.55	0.00	15	0	273	138	135

#### STAGE 2 - AliProf-US53NB

	AREA (SF)		INCREMENTAL VOL	(CY) (UNADJUSTED)	CUMULATIVE VOL (CY)		
STATION	CUT	FILL	сит	FILL	сит	FILL 1.30	D MASS ORDINATE
			NOTE 1	NOTE 3	NOTE 1		NOTE 8
691+70	15.11	6.38	0	0	0	0	0
692+00	14.83	9.19	17	9	17	11	5
692+50	15.01	7.12	28	15	44	31	13
693+00	14.36	7.73	27	14	71	<b>4</b> 9	23
693+50	15.44	6.81	28	13	99	66	33
694+00	15.84	5.58	29	11	128	81	47
694+50	15.98	5.85	29	11	157	95	63
695+00	18.71	2.49	32	8	190	105	85
695+50	21.28	2.23	37	4	227	111	116
696+00	19.92	0.81	38	3	265	114	150
696+50	19.45	0.80	36	1	301	116	185

## STAGE 2 - AliProf-US53SB

	AREA (SF)	)	INCREMENTAL VOL	(CY) (UNADJUSTED)	CUMULATIVE VOL (CY)		
						EXPANDED	
	CUT	FILL	CUT	FILL	CUT	FILL	MASS ORDINATE
STATION						1.30	
			NOTE 1	NOTE 3	NOTE 1		NOTE 8
679+00	14.95	21.82	0	0	0	0	0
679+50	15.04	23.57	28	42	28	55	-27
680+00	15.15	20.72	28	41	56	108	-52
680+50	14.95	15.72	28	34	84	152	-68
681+00	14.07	22.64	27	36	110	198	-88
681+50	13.32	25.48	25	45	136	256	-120
682+00	12.50	21.31	24	43	160	312	-152
682+50	12.12	22.88	23	41	183	365	-183
683+00	12.79	26.67	23	46	206	425	-219
683+50	11.78	32.92	23	55	228	497	-268
684+00	12.25	27.83	22	56	251	570	-319
684+50	13.06	21.03	23	45	274	629	-355
685+00	14.36	18.17	25	36	299	676	-376
685+50	15.15	20.39	27	36	327	722	-396
686+00	15.74	13.87	29	32	355	764	-408

PROJECT NO: 1195-01-76 HWY: US 53 COUNTY: WASHBURN EARTHWORK SHEET **E** 

PLOT BY: JARROD S. STARREN

PLOT DATE : 7/27/2020 10:09 AM

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\152345\C3D\SHEETSPLAN\090201.DWG LAYOUT NAME - 03

IS\UZ\W\WITNW\152345\C3D\SHEETSPLAN\090201.DWG

PLOT NAME : PLOT SCALE : 1 IN:5 FT HORZ. / 1 IN:5 FT VERT.

WISDOT/CADDS SHEET 49

9

STAGE 1 - AliProf-US53NB

	AREA (SF)		INCREMENTAL VOL (	CY) (UNADJUSTED)	CUMULATIVE VOL (CY)		
						<b>EXPANDED</b>	
	CUT	FILL	CUT	FILL	CUT	FILL	MASS ORDINATE
STATION						1.30	
			NOTE 1	NOTE 3	NOTE 1		NOTE 8
676+90	0.00	0.00	0	0	0	0	0
677+00	18.17	2.54	3	0	3	1	3
677+50	16.95	3.68	33	6	36	8	28
678+00	16.84	8.84	31	12	67	23	44
678+50	17.83	5.77	32	14	99	41	59
679+00	16.93	4.78	32	10	131	53	78
679+50	16.88	7.63	31	11	163	68	94
680+00	16.62	8.92	31	15	194	88	105
680+50	16.35	8.26	31	16	224	109	115
681+00	15.67	7.19	30	14	254	128	126
681+50	16.08	6.67	29	13	283	144	139
682+00	16.47	6.65	30	12	313	160	153
682+50	16.33	7.58	30	13	344	177	166
683+00	20.39	4.79	34	11	378	192	186
683+50	27.58	0.07	44	5	422	198	224
683+60	28.50	0.01	10	0	433	198	234

STAGE 1 - AliProf-US53SB

	AREA (SF	)	INCREMENTAL VOL	(CY) (UNADJUSTED)	CUMULATIVE VOL (CY)		
						EXPANDED	
	CUT	FILL	CUT	FILL	CUT	FILL	MASS ORDINATE
STATION						1.30	
			NOTE 1	NOTE 3	NOTE 1		NOTE 8
692+40	22.45	0.00	0	0	0	0	0
692+50	21.69	0.00	8	0	8	0	8
693+00	18.48	0.99	37	1	45	1	44
693+50	18.91	2.48	35	3	80	5	75
694+00	17.90	1.97	34	4	114	11	103
694+50	17.24	1.80	33	3	147	15	131
695+00	17.86	1.18	33	3	179	19	160
695+50	17.39	1.37	33	2	212	22	190
696+00	18.09	8.78	33	9	245	34	210
696+50	19.96	49.15	35	54	280	104	176
697+50	17.70	67.03	70	215	350	384	-34
698+00	18.80	0.49	34	63	383	465	-81
698+50	17.41	0.14	34	1	417	466	-49
698+80	19.00	0.00	20	0	437	466	-29

Ε HWY: US 53 COUNTY: WASHBURN PROJECT NO: 1195-01-76 EARTHWORK SHEET

FILE NAME : \\SEHCF1\PROJECTS\UZ\W\WITNW\152345\C3D\SHEETSPLAN\090201.DWG LAYOUT NAME - 01

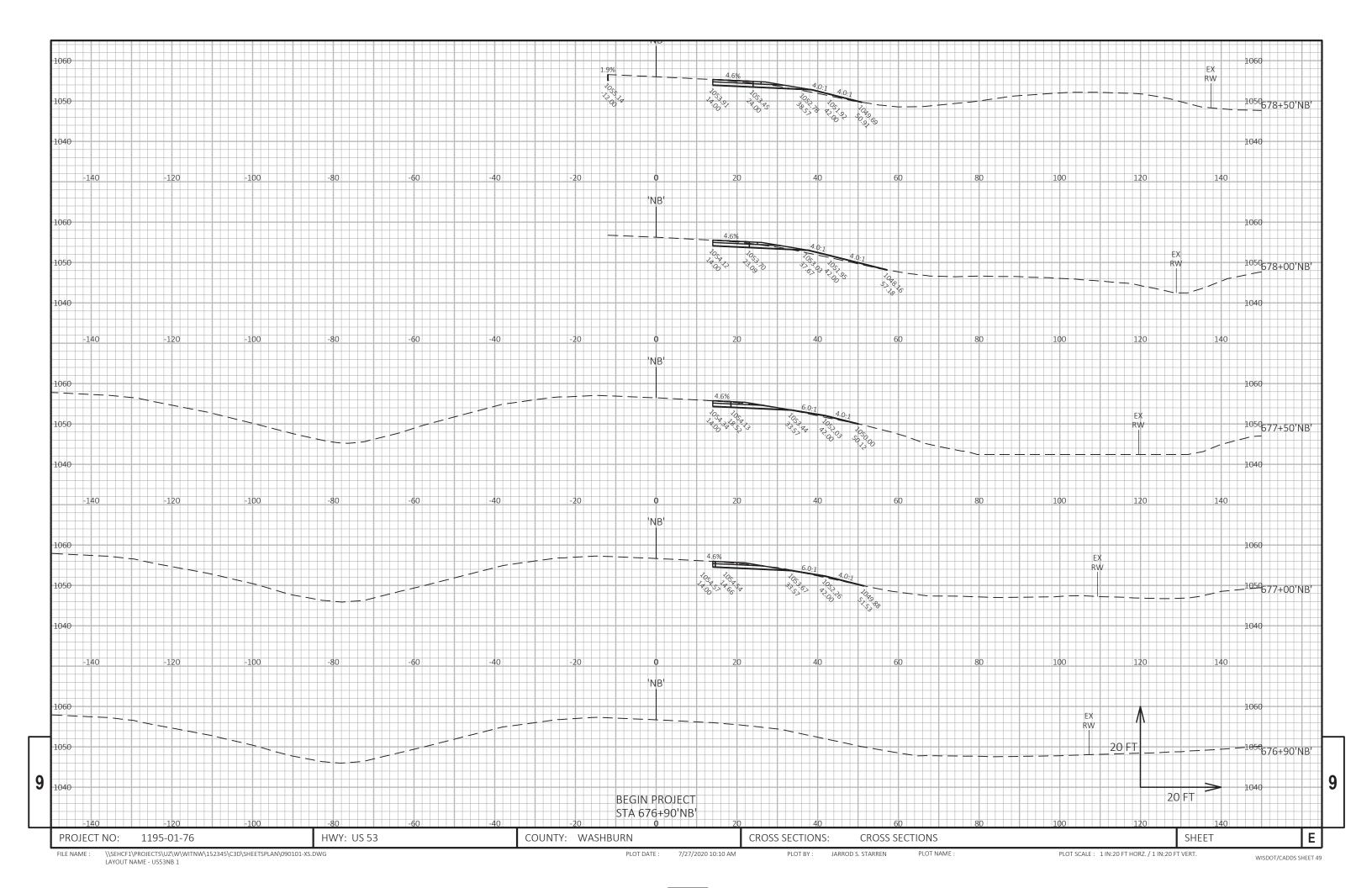
PLOT DATE : 7/27/2020 10:09 AM

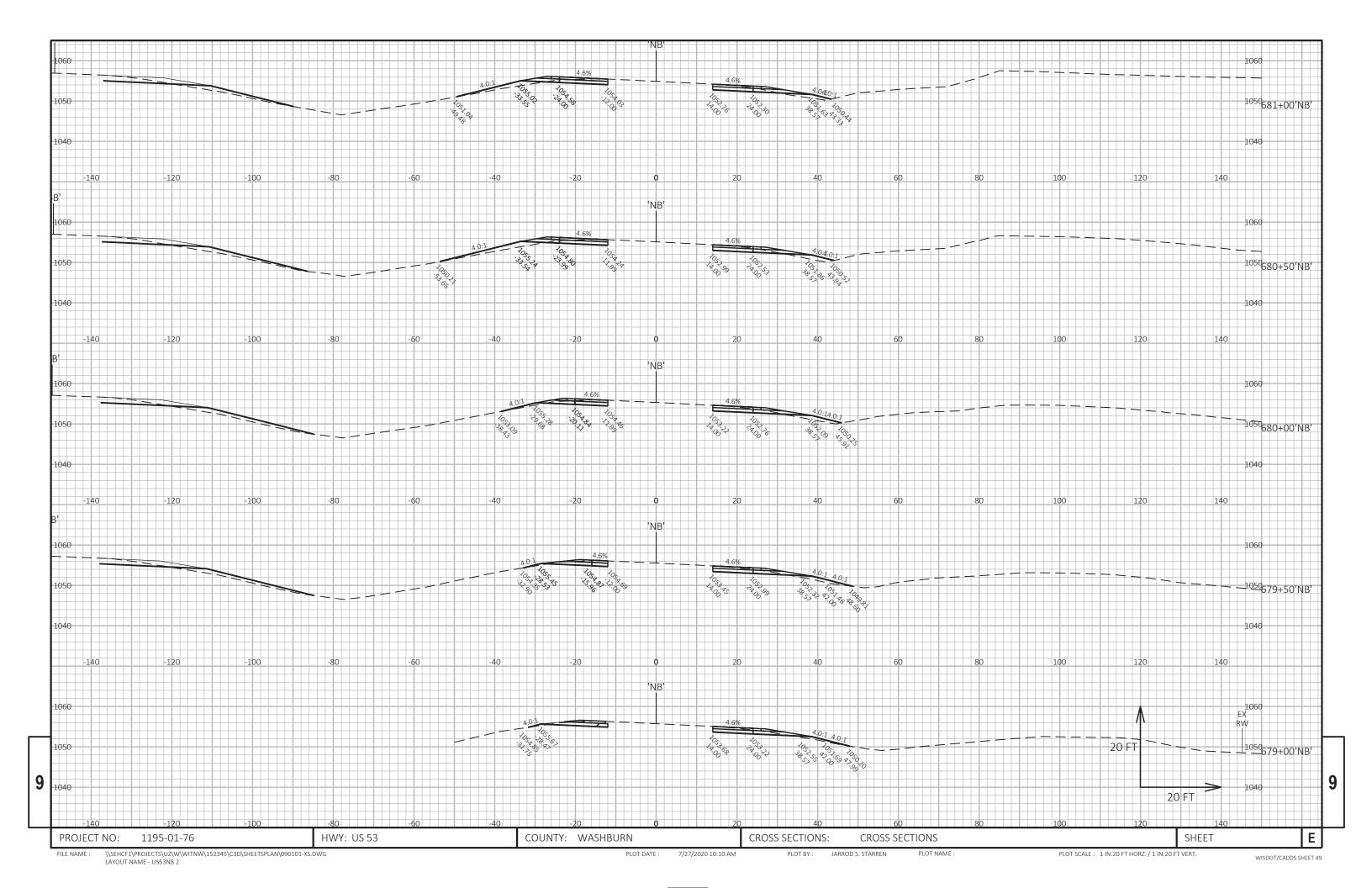
PLOT BY: JARROD S. STARREN

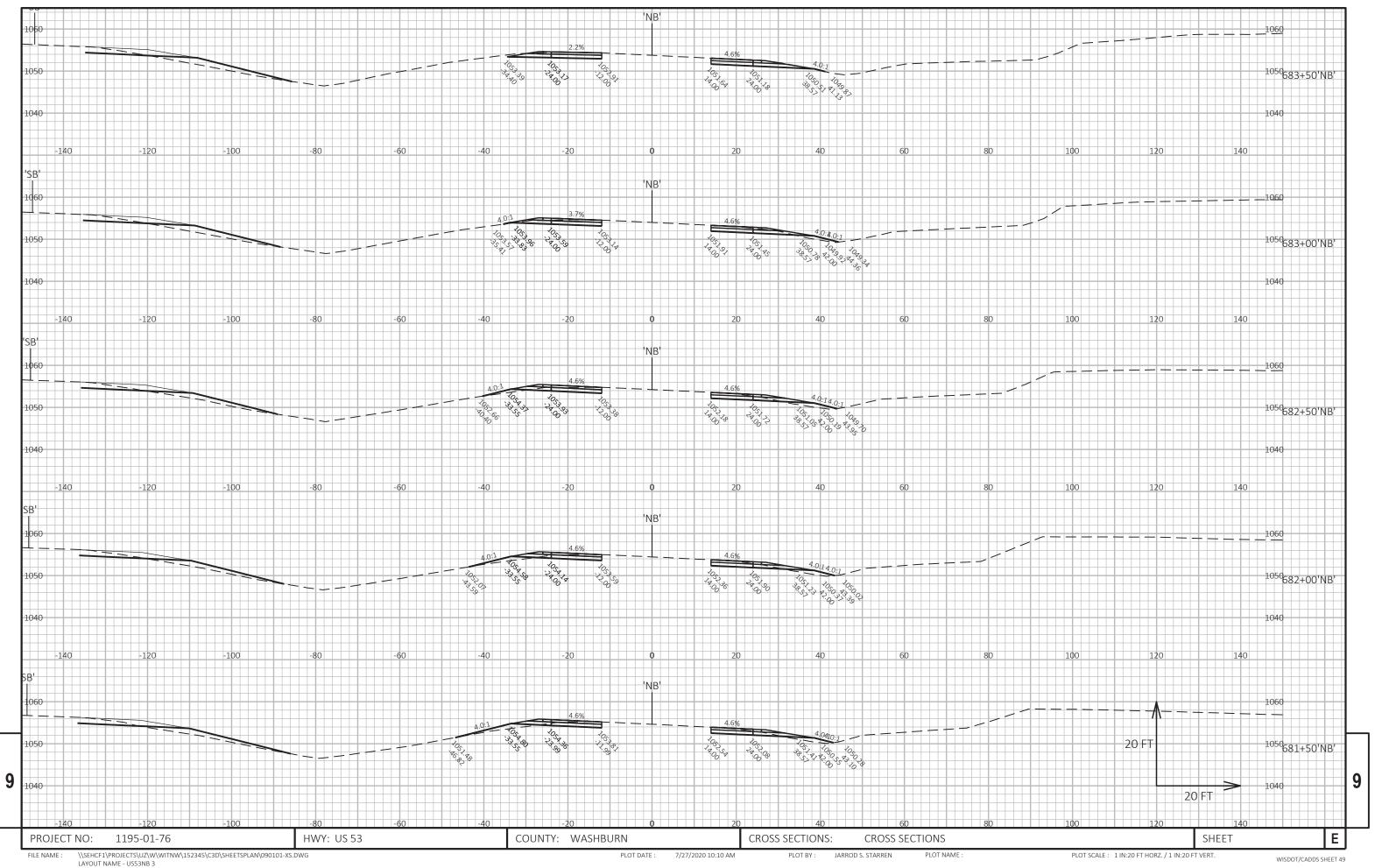
PLOT NAME :

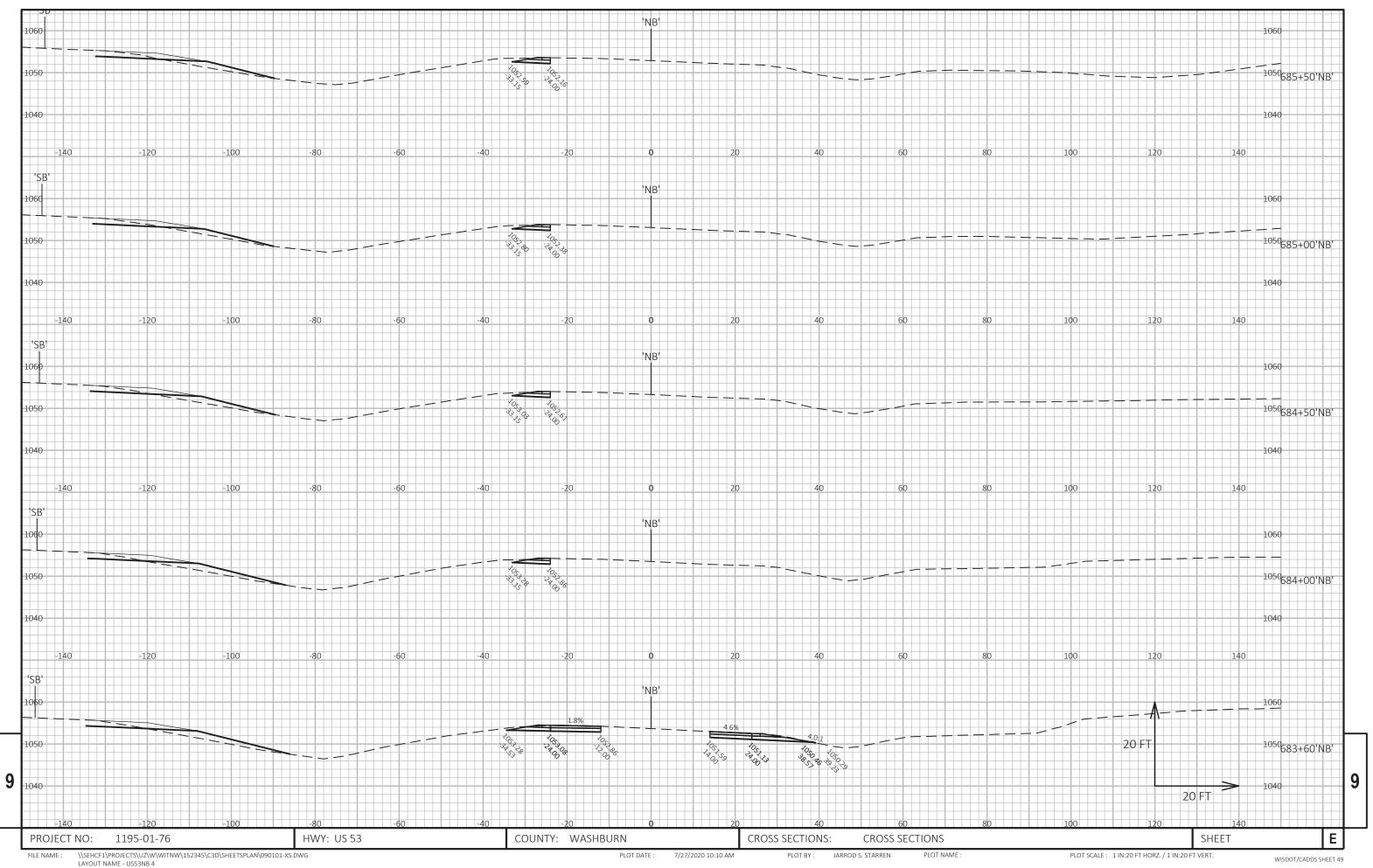
PLOT SCALE: 1 IN:5 FT HORZ. / 1 IN:5 FT VERT. WISDOT/CADDS SHEET 49

9

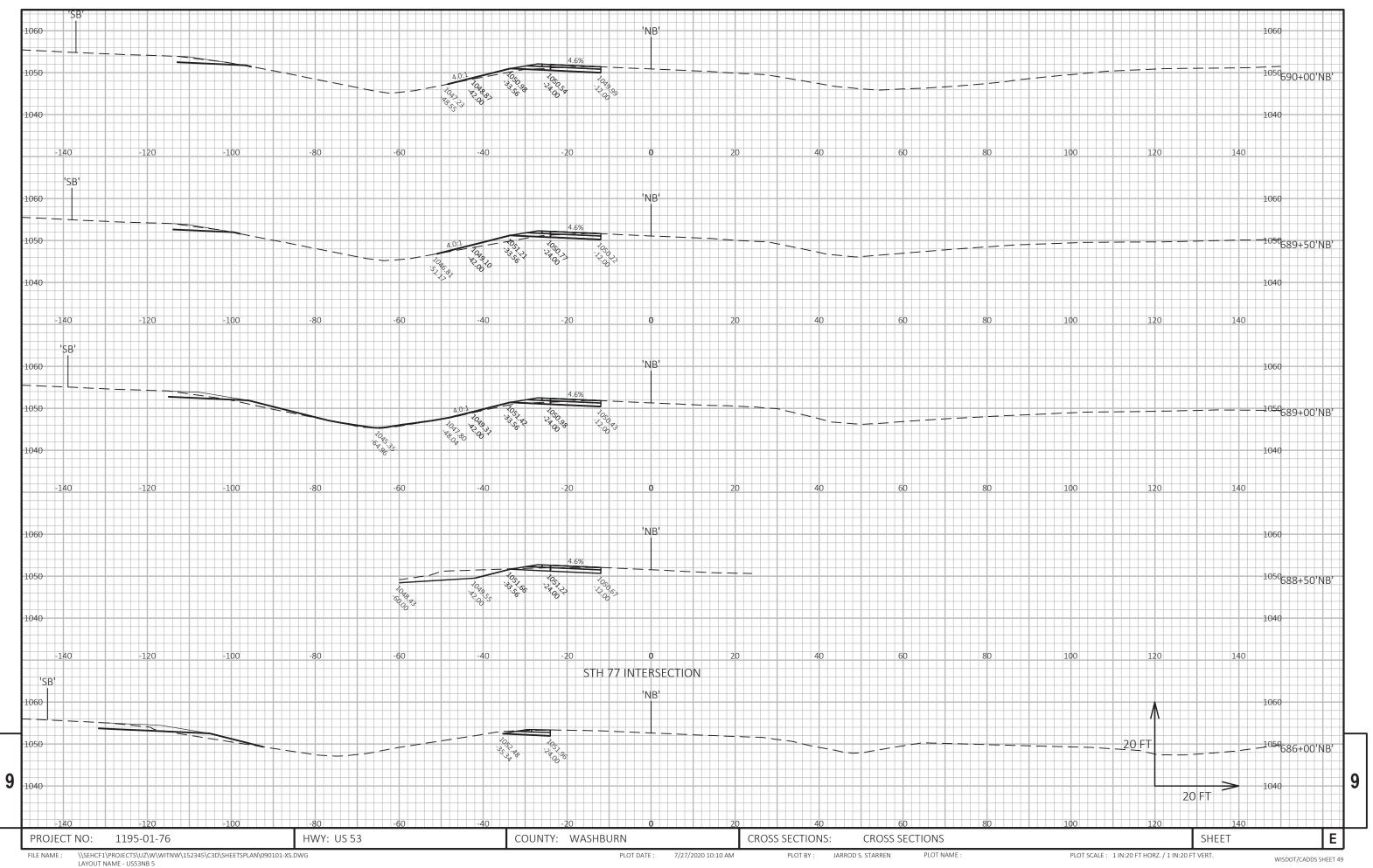


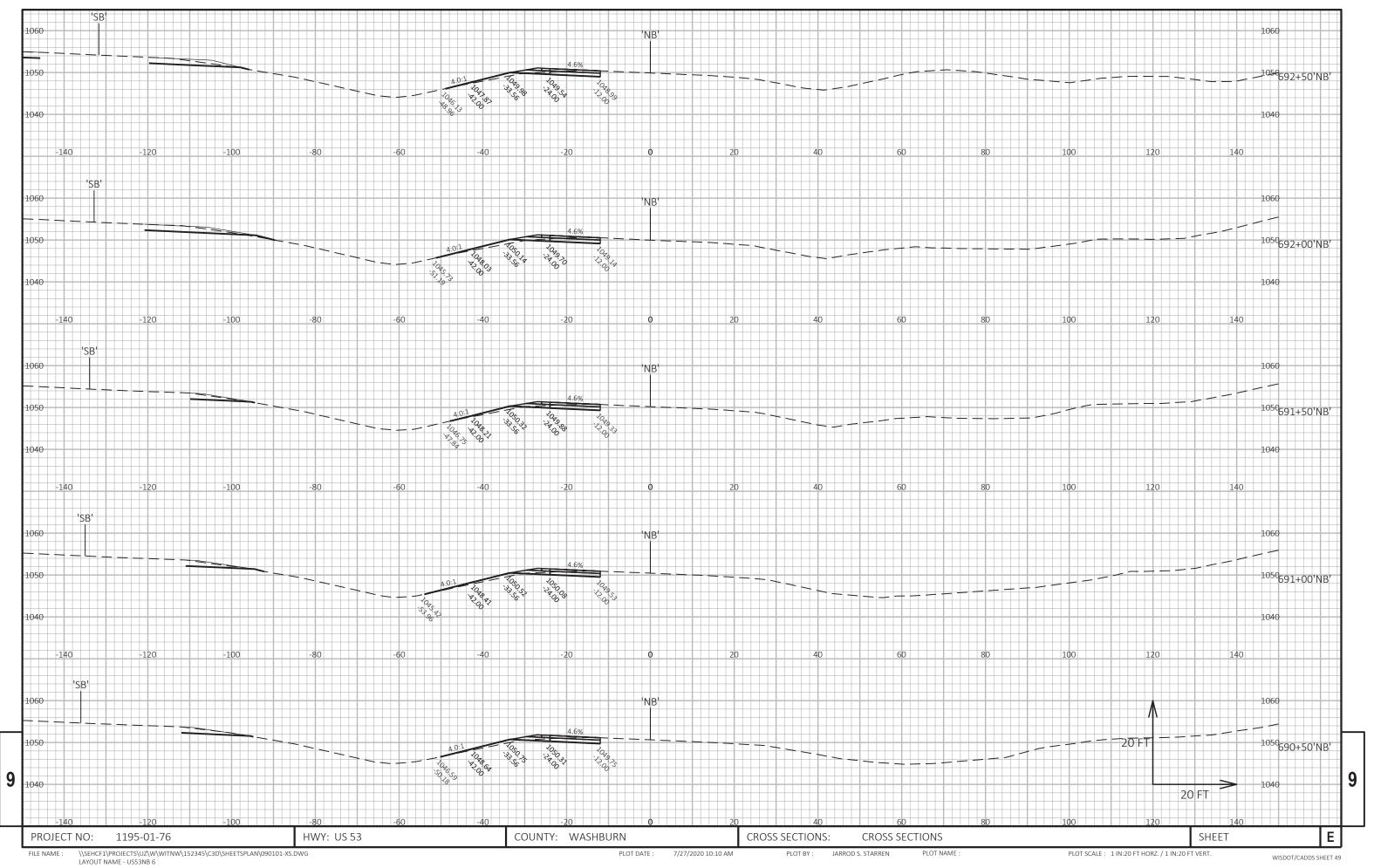


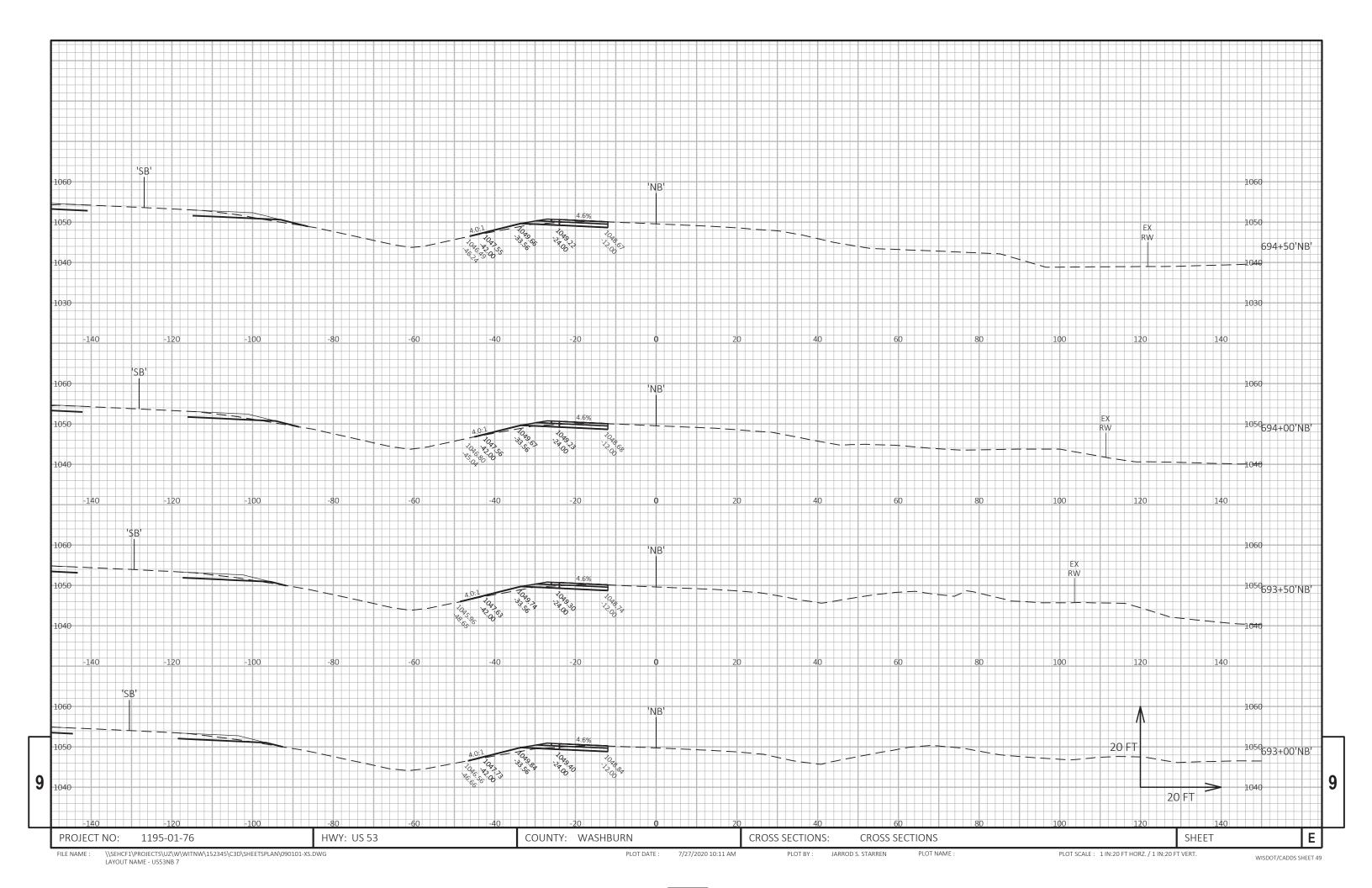


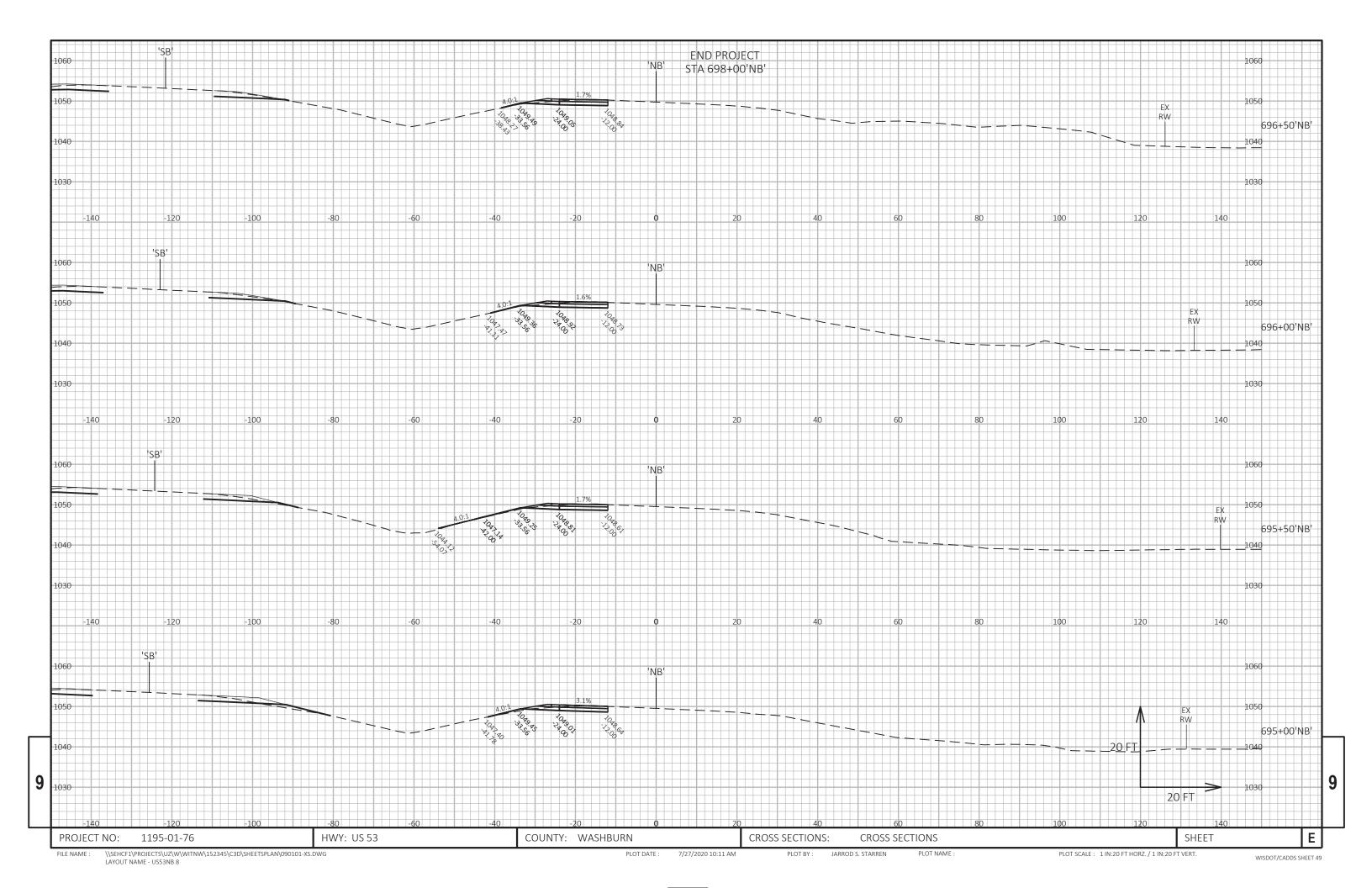


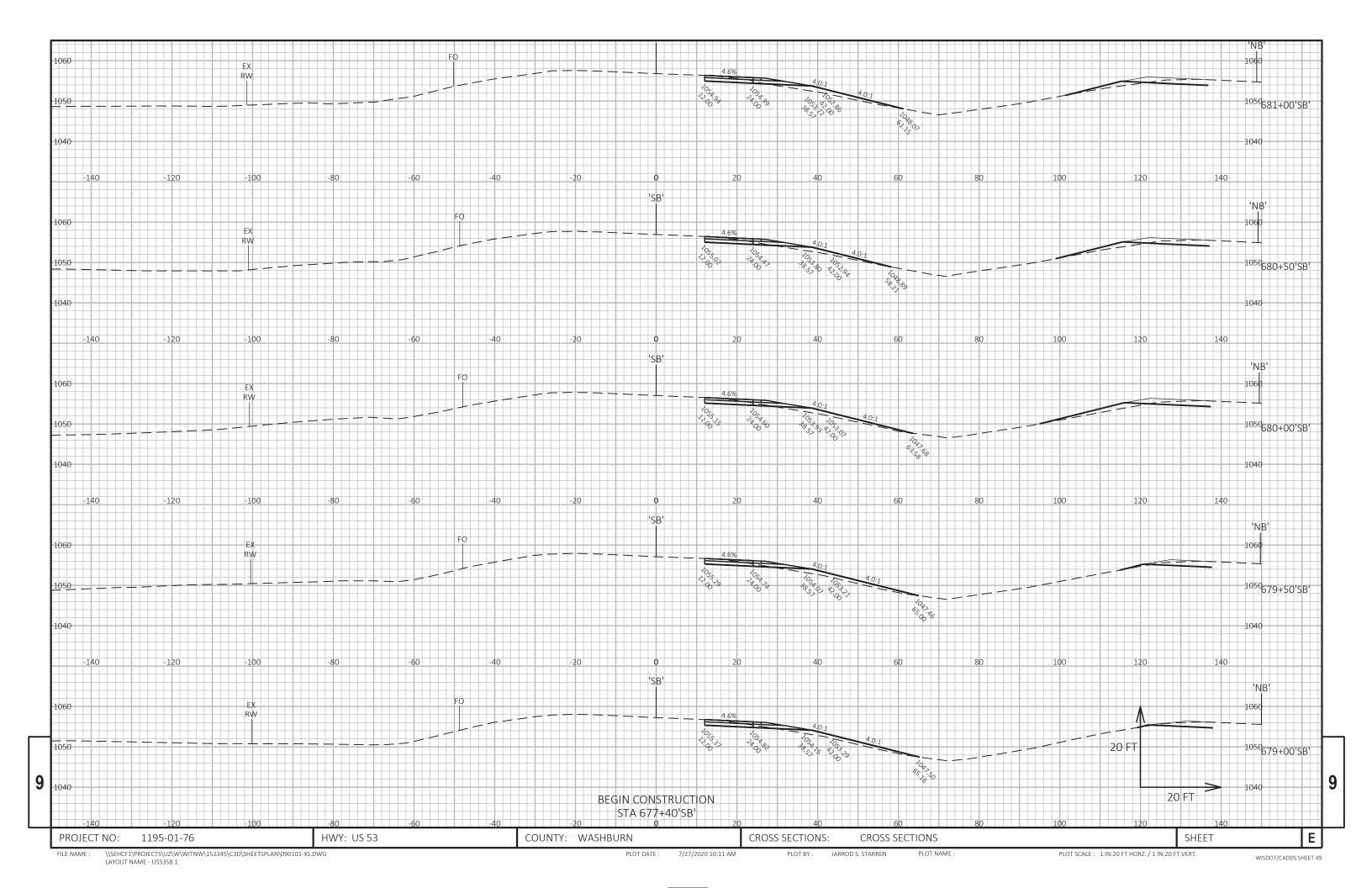
LATOUT NAIVIE - USSSING 4

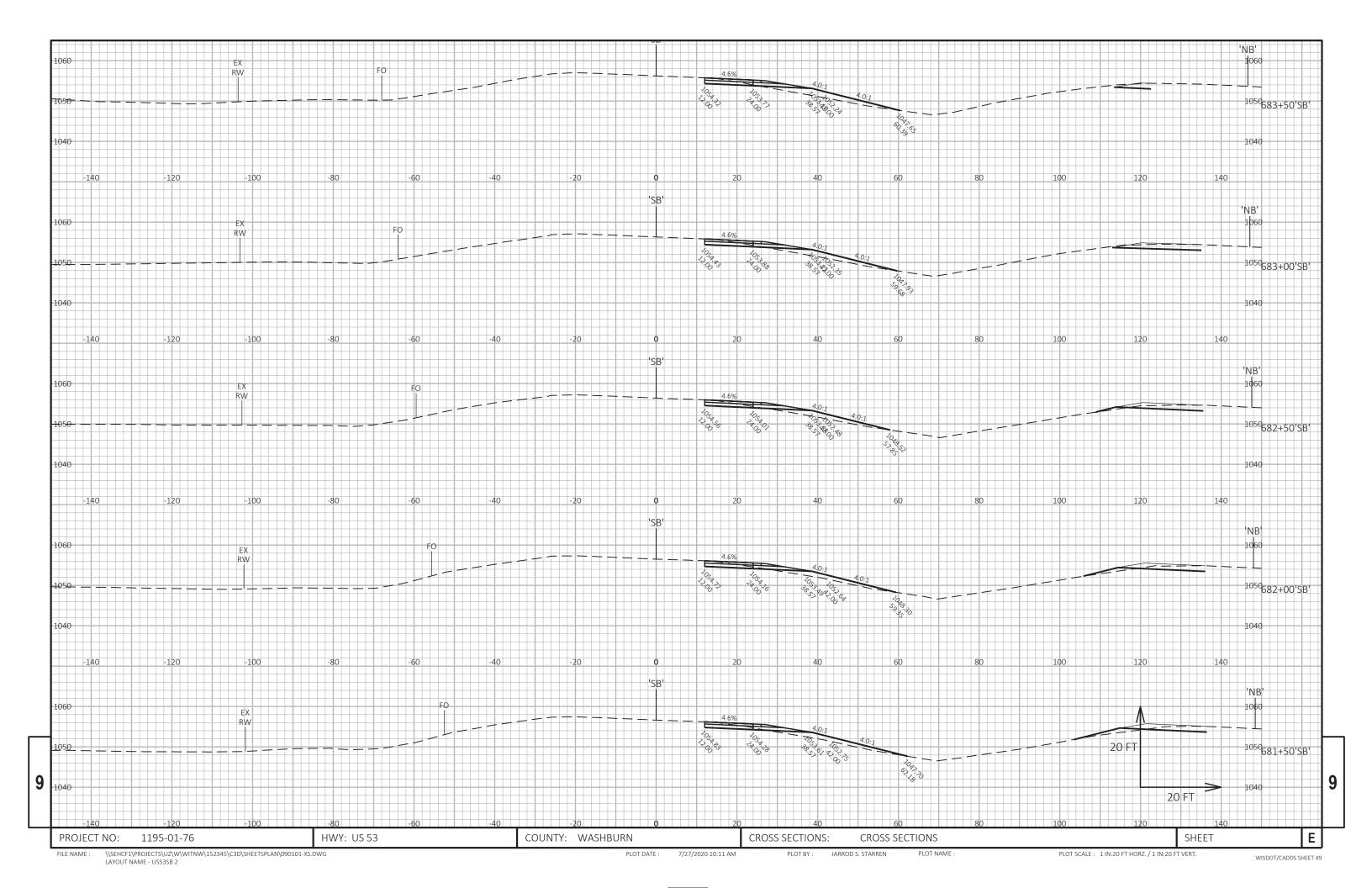


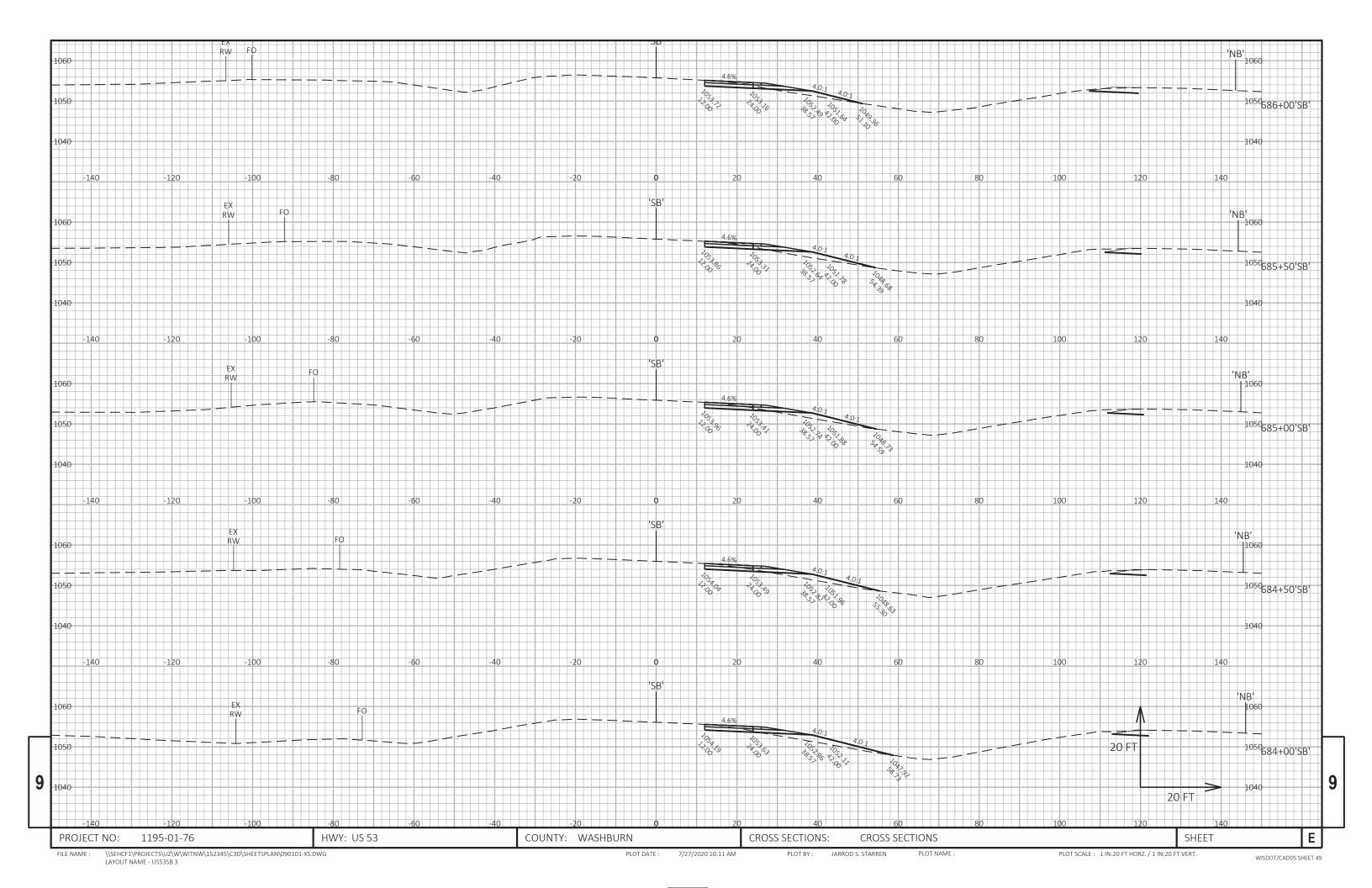


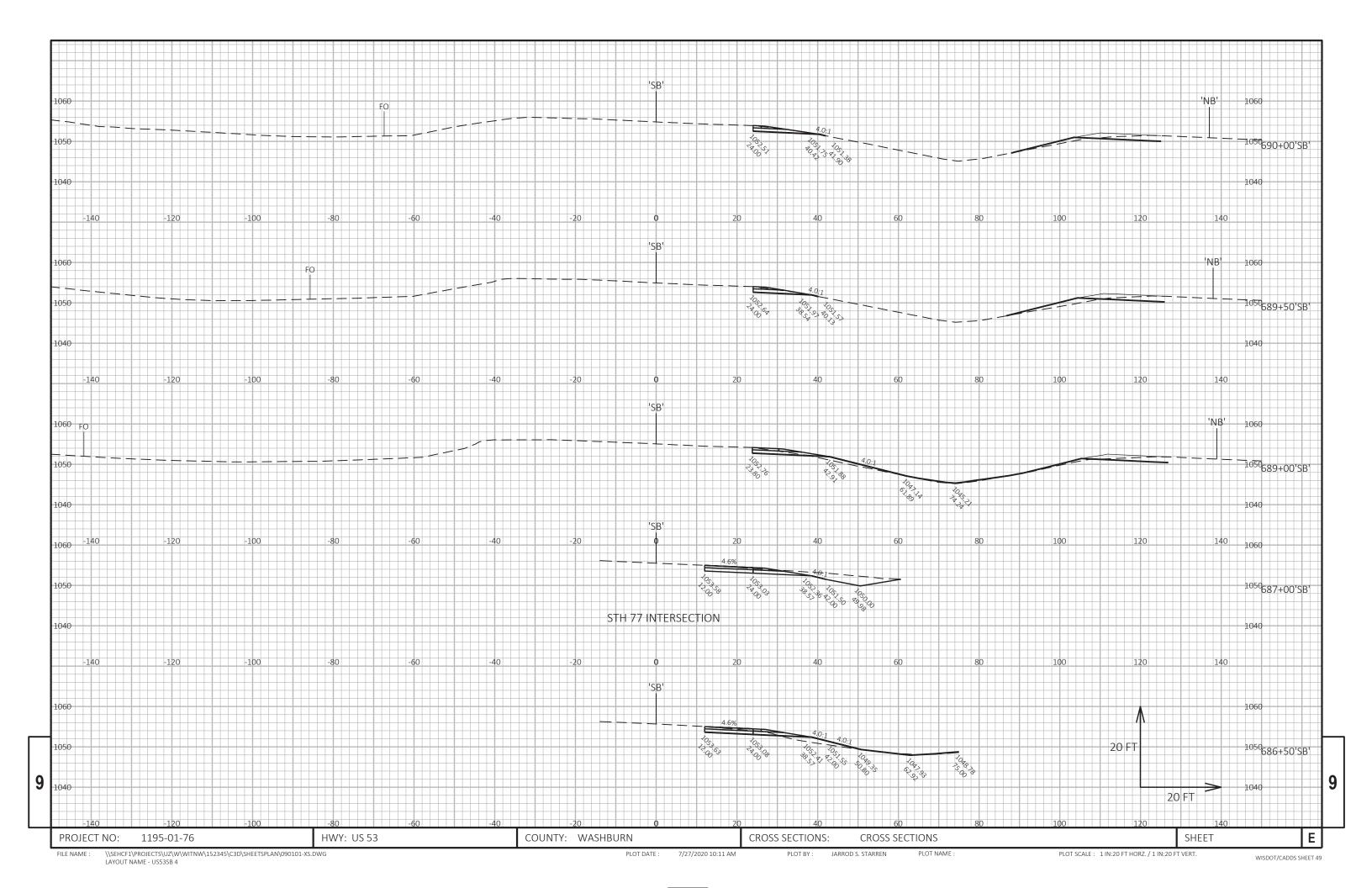


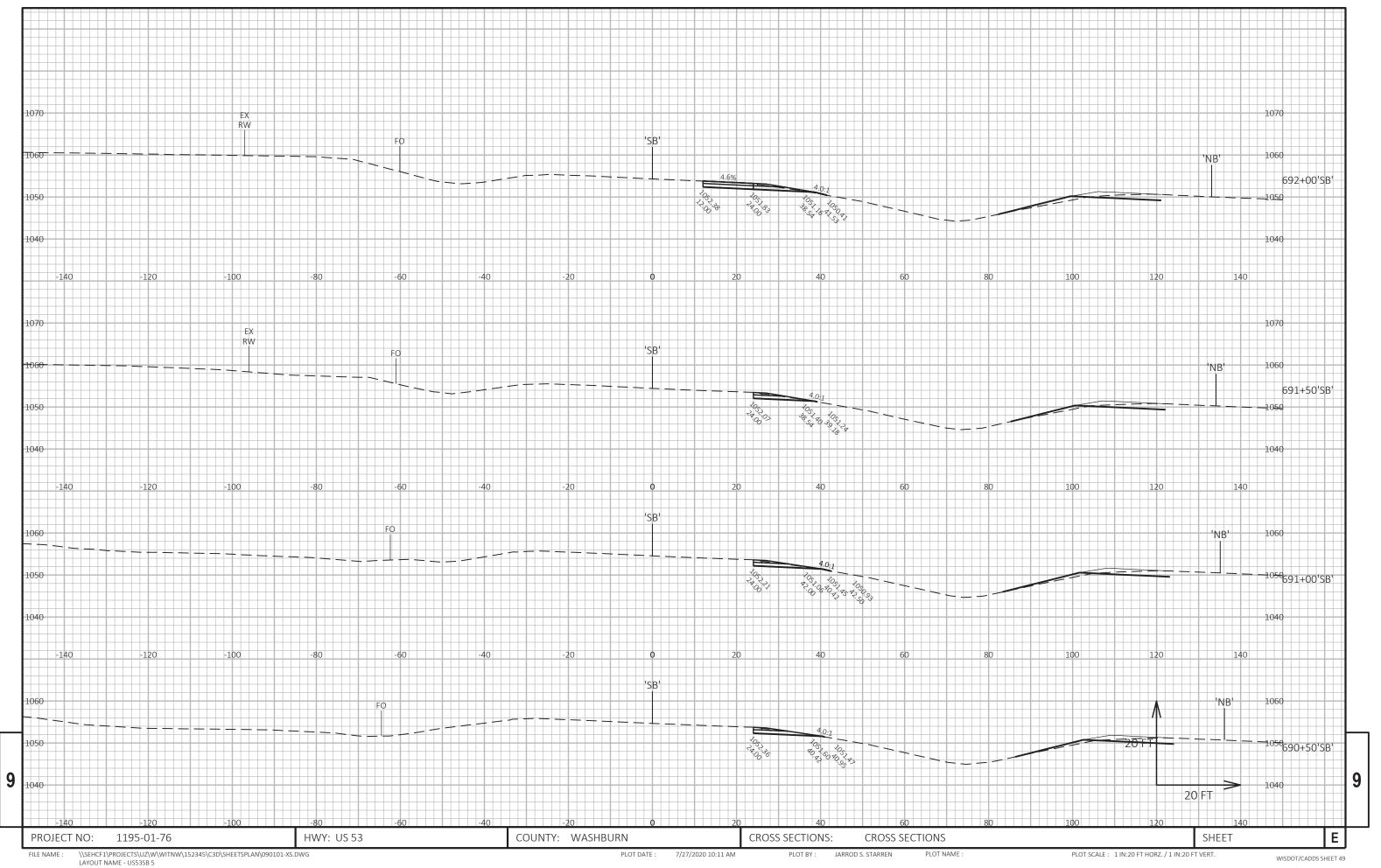


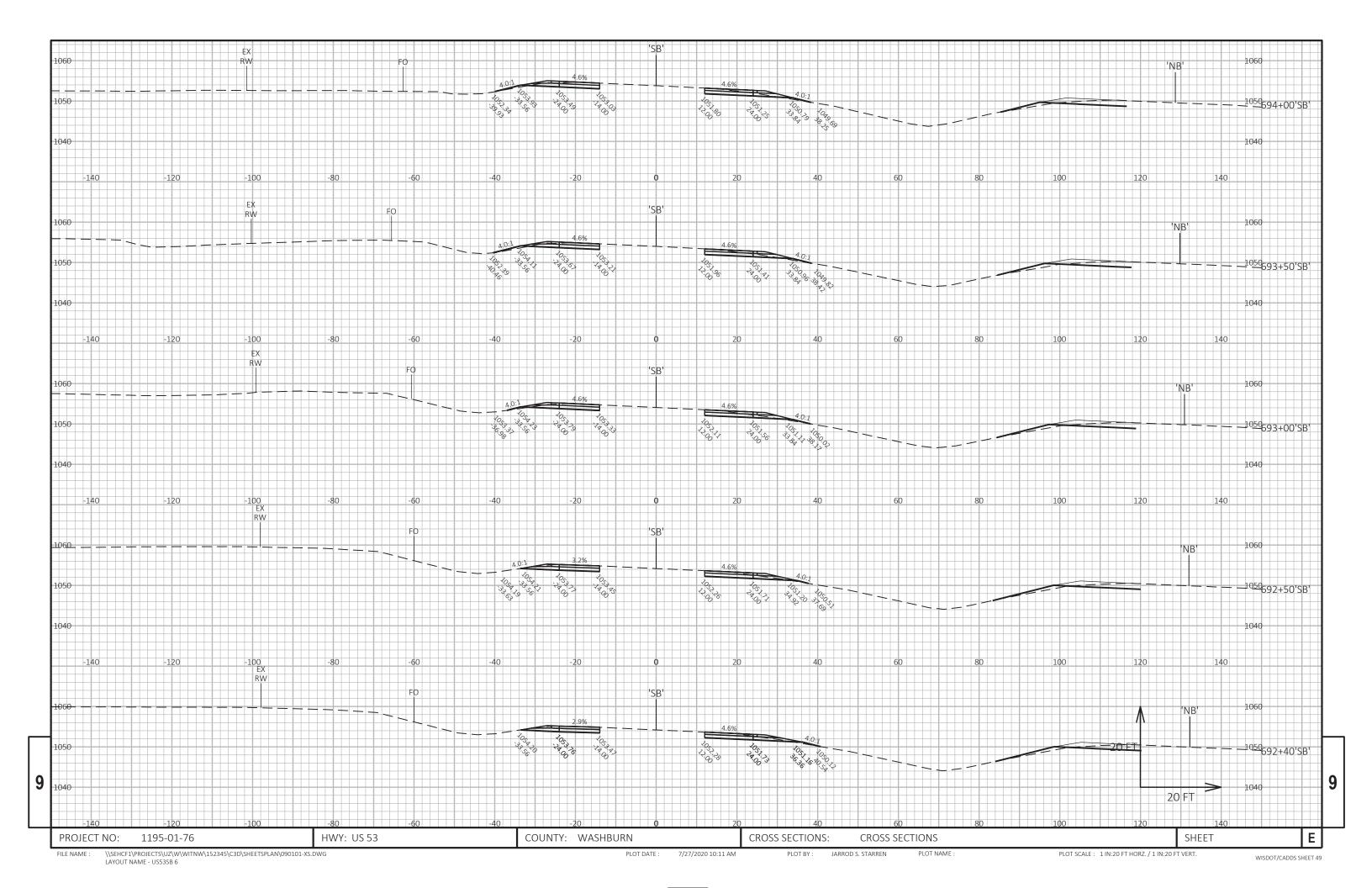


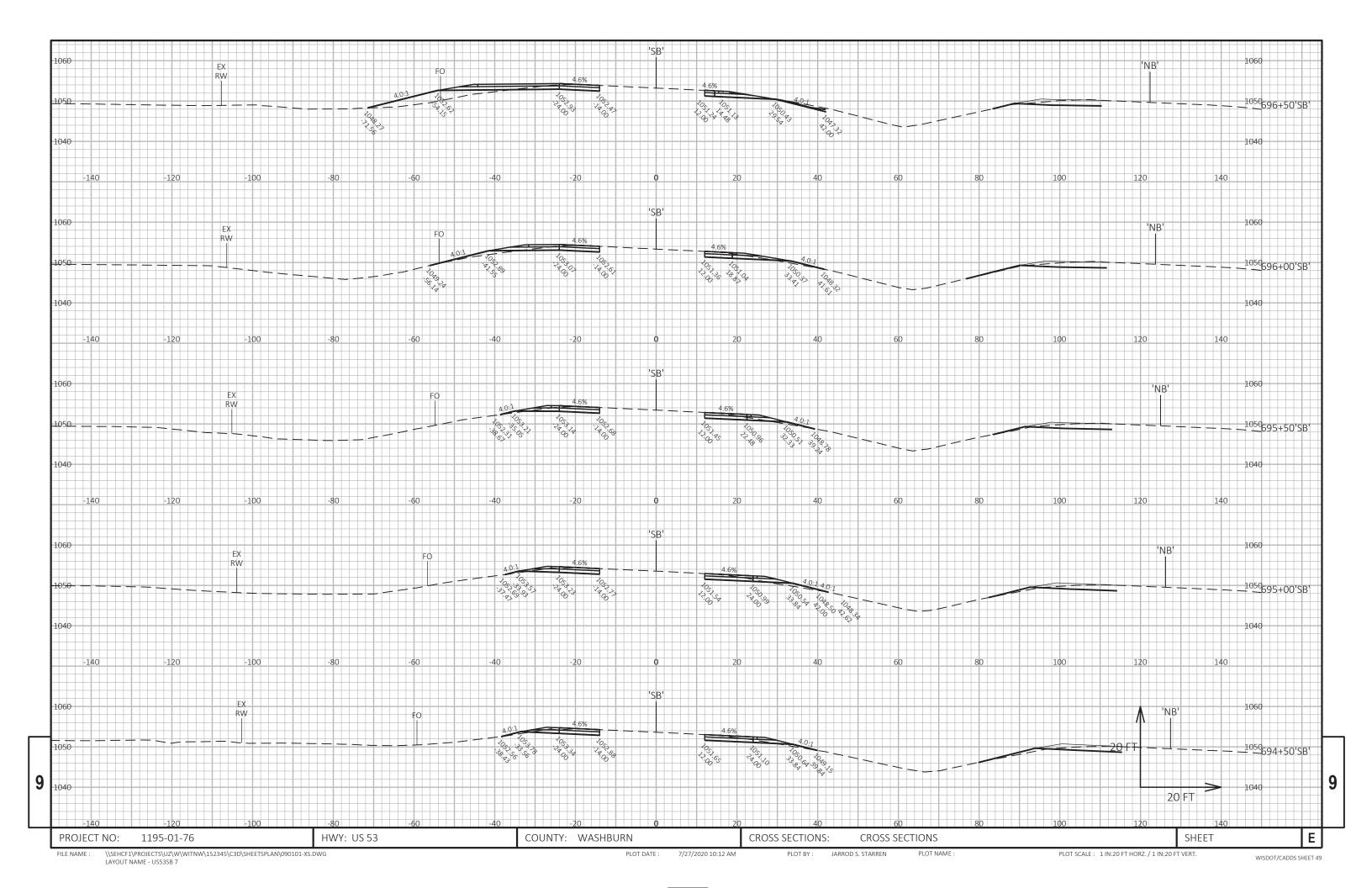


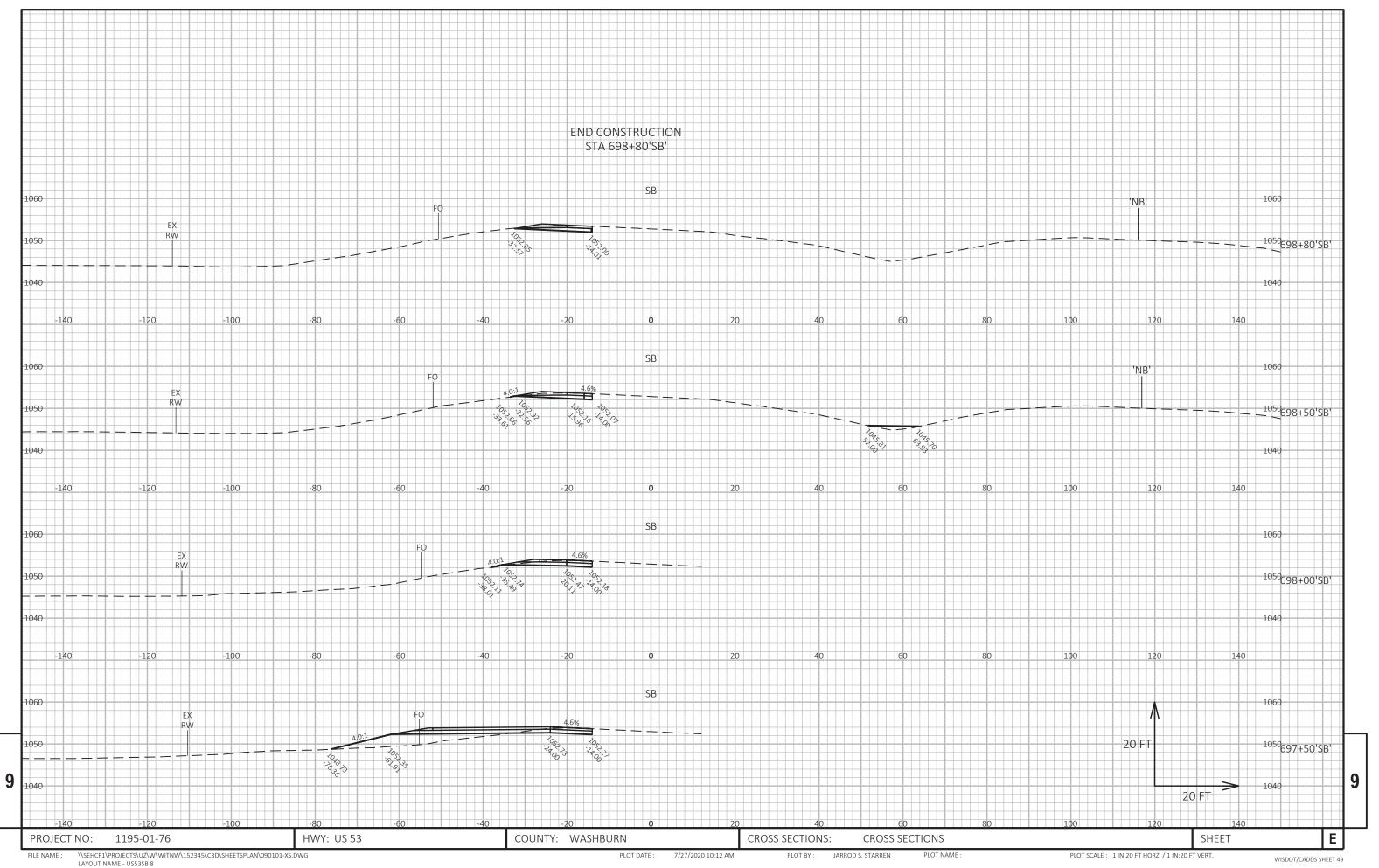




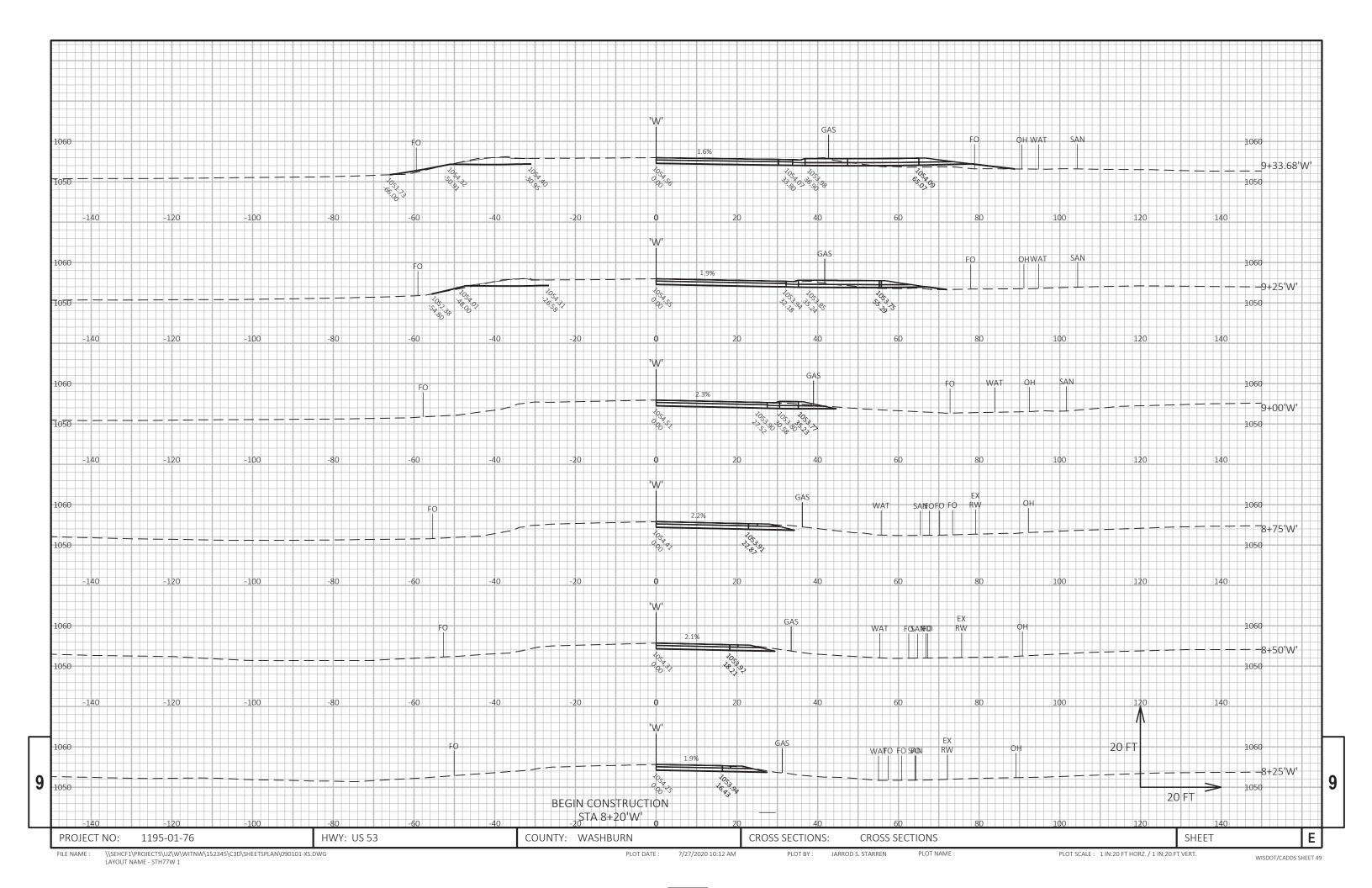


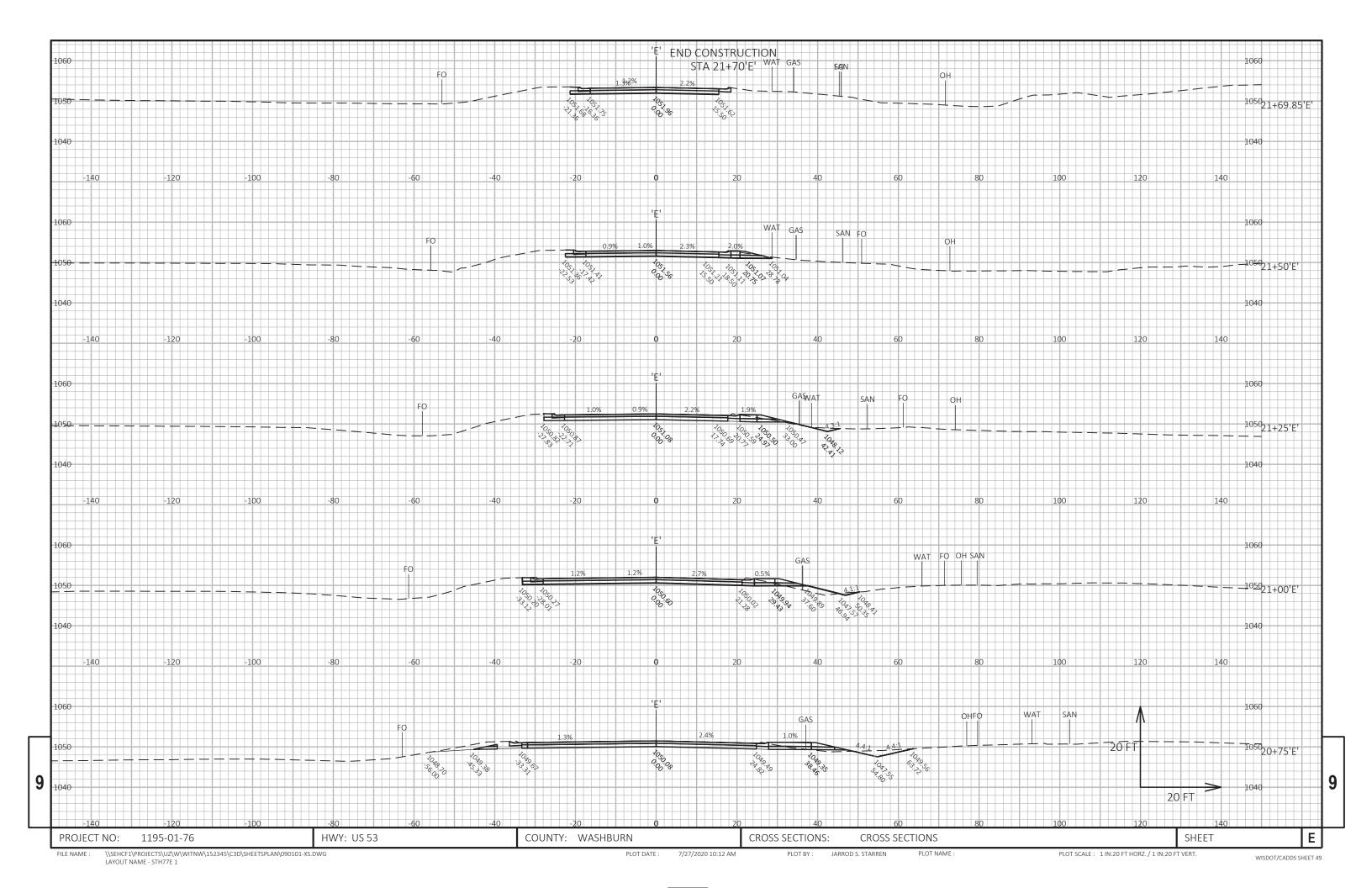


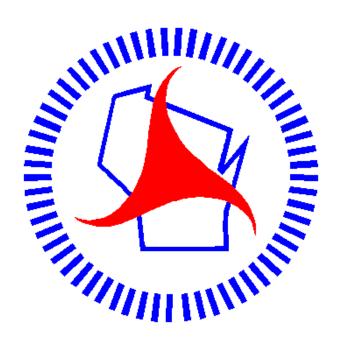




ENTOUT NAME - 033338 0







## Wisconsin Department of Transportation

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