MARCH 2023 ORDER OF SHEETS PROJECT ID: WITH: Section No. Section No. Typical Sections and Details Section No. Estimate of Quantities Section No. Miscellaneous Quantities Section No. Plan and Profile Section No. Standard Detail Drawings 196-00-62 TOTAL SHEETS = R-12-W DESIGN DESIGNATION AADT (2023) = 4.220 A.A.D.T. = 4,220 D.H.V. = 18.2 D.D. = 61/39 = 19.4 DESIGN SPEED = 65 MPH = 1,840,000 **WASHBURN** CONVENTIONAL SYMBOLS Pokegema **PROFILE** GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOTLINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION RD PROPOSED OR NEW R/W LINE SLOPE INTERCEPT CULVERT (Profile View) UTILITIES REFERENCE LINE T-42-N ELECTRIC EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT (Box or Pipe) SANITARY SEWER R-12-W COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE MARSH AREA UTILITY PEDESTAL POWER POLE ₫ Ø WOODED OR SHRUB AREA TELEPHONE POLE

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

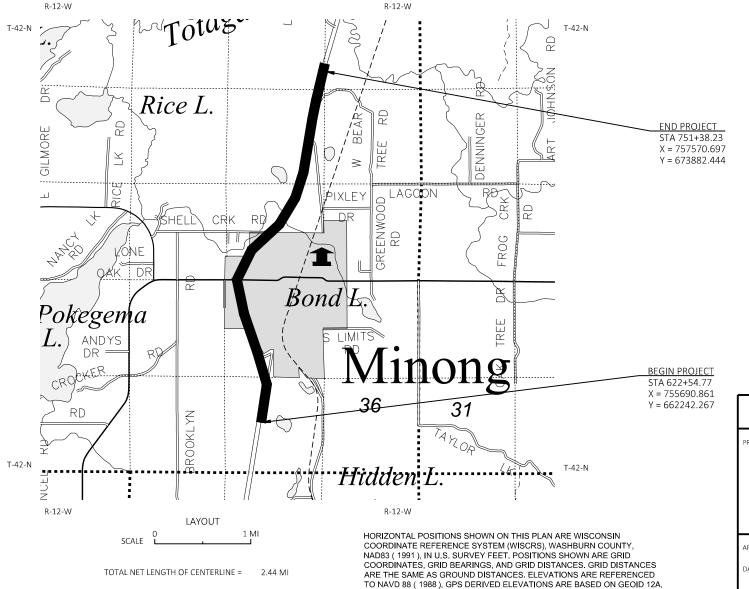
PLAN OF PROPOSED IMPROVEMENT

MINONG - SOLON SPRINGS

BUS 53 (MINONG) TO LAKESIDE RD (NB)

USH 53 WASHBURN

STATE PROJECT NUMBER 1196-00-62



PLOT NAME

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT

PROJECT

CONTRACT

STATE PROJECT

1196-00-62

PREPARED BY WILLIAM HOLME Surveyor Designer Project Manage DAVID KOEPP

PPROVED FOR THE DEPARTMENT

Adam M. Hetrick ON Adam ATF: 7/20/2022 Ε

FILE NAME: N:\PDS\C3D\11960032\SHEETSPLAN\010101-TI.DWG THAO, KOU 6/23/2022 10:15 AM PLOT BY:

GENERAL NOTES

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO UTILITIES THAT HAVE FACILITIES IN THE AREA.

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

DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.

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

ACCESS TO ALL RESIDENCES AND BUSINESSES SHALL BE MAINTAINED DURING CONSTRUCTION.

LOCATIONS OF CONCRETE PAVEMENT REPAIR, CONCRETE PAVEMENT REPLACEMENT, AND CENTERLINE JOINT REPAIR SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. APPROXIMATE LOCATIONS HAVE BEEN NOTED ON THE PLAN SHEETS ALONG WITH A CORRESPONDING LEGEND.

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
TYPICAL SECTIONS
CONSTRUCTION DETAILS

ASTREA

ANDREW HEIGL
105 KENT ST
P.O. BOX 190
IRON MOUNTAIN, MI 49801
PHONE: (906) 221-7536
EMAIL: andy.heigl@astreaconnect.com

COMMUNICATION LINE

CENTURYLINK

BRIAN HUHN 425 ELLINGSON AVE HAWKINS, WI 54530 PHONE: (715) 563-8294 EMAIL: brian.huhn@lumen.com

SPECTRUM RYAN NELSON

RYAN NELSON
1810 LAKESHORE DR E
ASHLAND, WI 54806
PHONE: (715) 931-0238
EMAIL: ryan.nelson@charter.com

<u>CONTACTS</u>

ELECTRICITY

DAHLBERG LIGHT AND POWER COMPANY JAMES DAHLBERG 9221 E MAIN ST P.O. BOX 300 SOLON SPRING, WI 54873-0300 PHONE: (715) 378-2205

GAS / PETROLEUM

WE ENERGIES STEVEN CHAVERS 104 W SOUTH ST RICE LAKE, WI 54868 PHONE: (715) 213-4327

EMAIL: steven.chavers@we-energies.com

WATER

MINONG VILLAGE OF WATER UTILITY
WILLIAM HALLOCK
123 5TH AVE
MINONG, WI 54859
PHONE: (715) 520-0365
EMAIL: whallock.publicworks@gmail.com

<u>SEWER</u>

MINONG VILLAGE OF SEWER UTILITY
WILLIAM HALLOCK
123 5TH AVE
MINONG, WI 54859
PHONE: (715) 520-0365
EMAIL: whallock.publicworks@gmail.com

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
SHAWN HASELEU
810 W MAPLE ST
SPOONER, WI 54801
PHONE: (715) 635-4228
EMAIL: Shawn.Haseleu@wisconsin.gov

DESIGN

WISCONSIN DEPARTMENT OF TRANSPORTATION ANDREW UEHLING 718 W CLAIREMONT AVE EAU CLAIRE, WI 54701 PHONE: (715) 833-5563 EMAIL: Andrew.Uehling@dot.wi.gov



PLOT SCALE:

1 IN:100 FT

WISDOT/CADDS SHEET 42

PLOT NAME

PROJECT NO: 1196-00-62 HWY: USH 53 COUNTY: WASHBURN GENERAL NOTES SHEET **E**

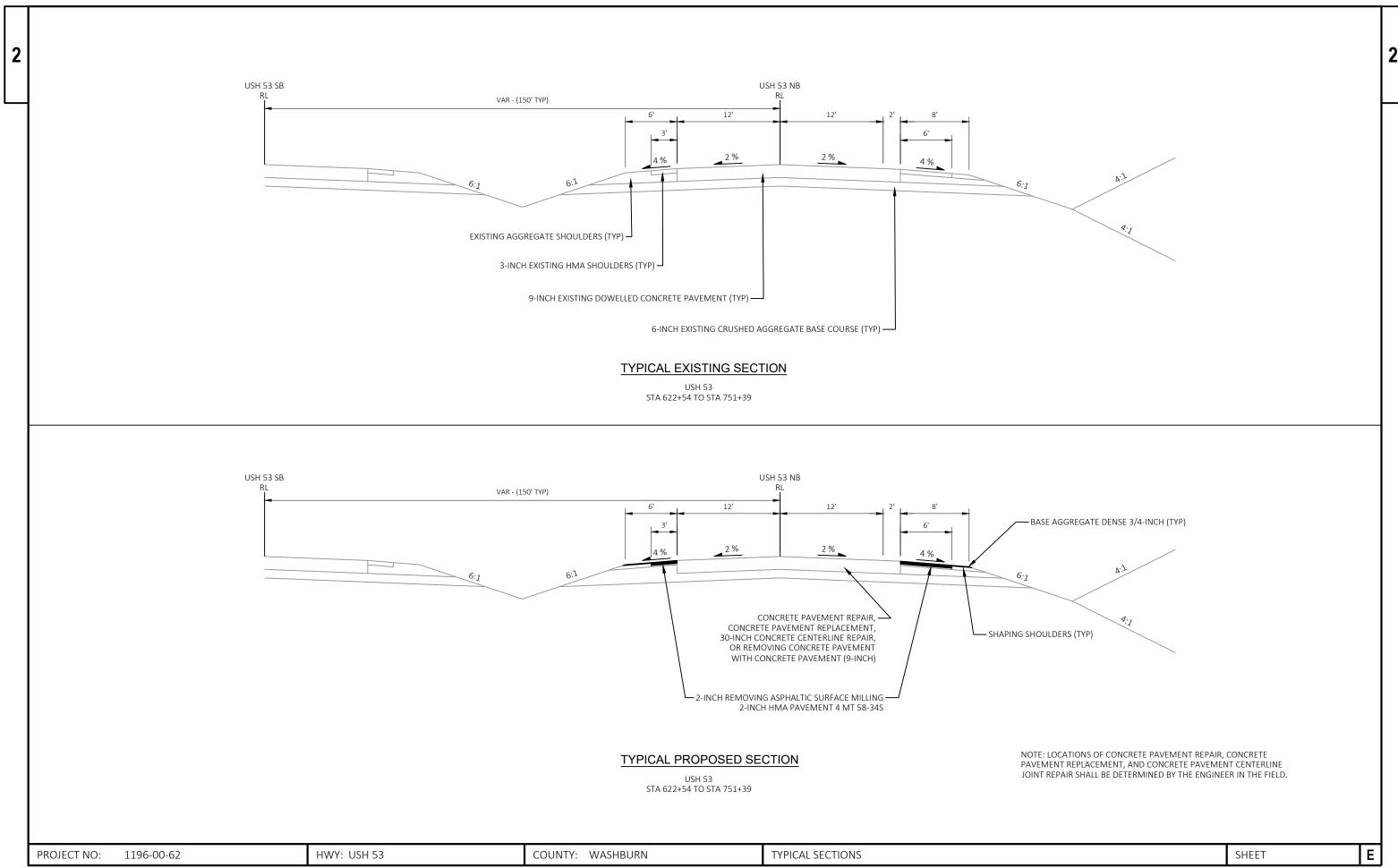
6/23/2022 10:38 AM

PLOT BY:

THAO, KOU

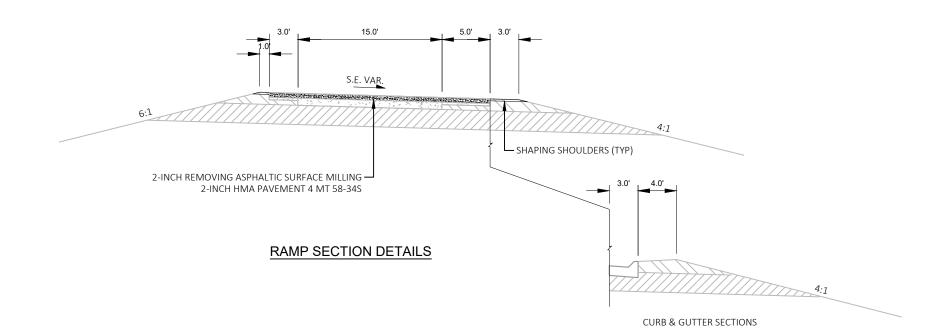
N:\PDS\C3D\11960032\SHEETSPLAN\020101-GN.DWG LAYOUT NAME - 01

FILE NAME :



FILE NAME: N:\PD\$\C3D\\11960032\SHEETSPLAN\020301-TS.DWG PLOT NAME: 7/21/2022 9:00 AM PLOT BY: THAO, KOU PLOT NAME: PLOT SCALE: 1 IN:10 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 020301-ts 1in:10ft

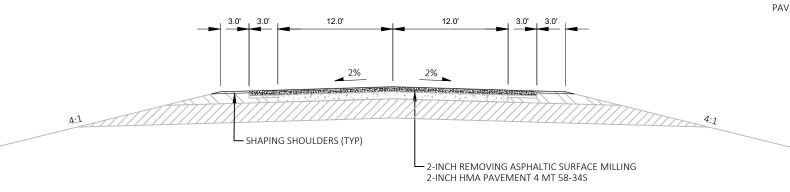




NOTES:

MILL AND OVERLAY EXISTING ASPHALT ROADWAY AND SHOULDERS AT SIDEROADS AND RAMPS TO THE LIMITS SHOWN IN THE PLANS.

PAVED ROADWAY AND SHOULDER WIDTHS MAY VARY AT VARIOUS LOCATIONS.



SIDEROAD SECTION DETAILS

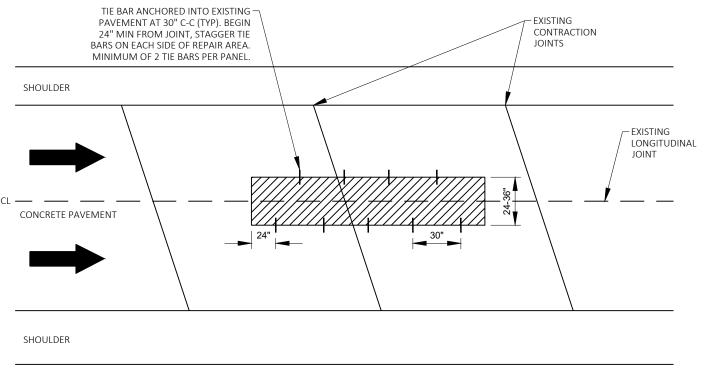
HWY: USH 53 CONSTRUCTION DETAILS Ε PROJECT NO: 1196-00-62 COUNTY: WASHBURN SHEET PLOT DATE : 10/11/2022 8:44 AM PLOT BY: THAO, KOU PLOT NAME :

C:\C3D\11960032\SHEETSPLAN\021001-CD.DWG LAYOUT NAME - 02 FILE NAME :

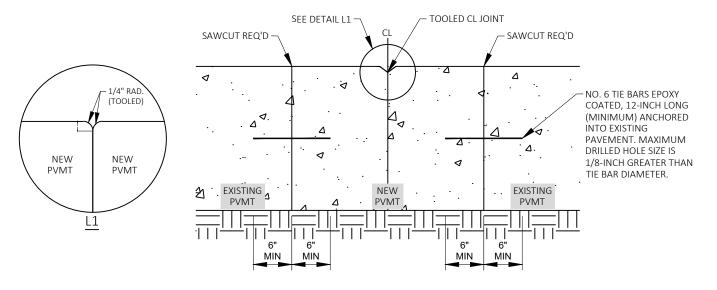
PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42





PLAN VIEW



SECTION VIEW

CONCRETE PAVEMENT CENTERLINE JOINT REPAIR

CONCRETE PAVEMENT CENTERLINE JOINT REPAIR LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

WORK TO BE PAID UNDER SPV ITEM 30-INCH CONCRETE CENTERLINE REPAIR

COUNTY: WASHBURN Ε PROJECT NO: 1196-00-62 HWY: USH 53 CONSTRUCTION DETAILS SHEET C:\C3D\11960032\SHEETSPLAN\021001-CD.DWG PLOT BY : THAO, KOU PLOT NAME : PLOT SCALE : FILE NAME : 10/11/2022 8:44 AM 1 IN:10 FT WISDOT/CADDS SHEET 42

LAYOUT NAME - 01

BARRELS, SIGNS, BARRICADES, AND ARROW BOARDS SHALL BE PLACED ACCORDING TO:
• SDD 15D12 "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION"

- SDD 15D15 "TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE"
- SDD 15D15 "TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE"
- SDD 15D21 "TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE"
- SDD 15D27 "TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH"
- SDD 15D39 "TRAFFIC CONTROL, DROP-OFF SIGNING"
- SDD 15D40 "TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER"

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE A.

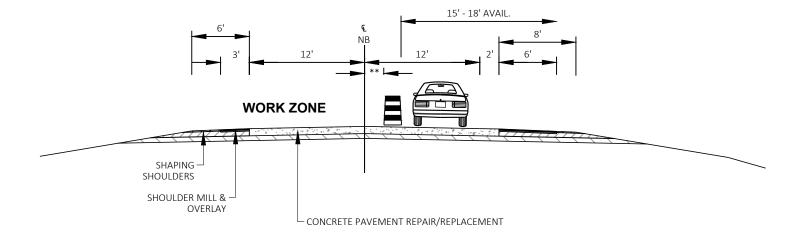
ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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

DRUMS IN TAPERS SHALL BE EQUIPPED WITH TYPE C (STEADY BURN) TRAFFIC CONTROL WARNING LIGHTS.

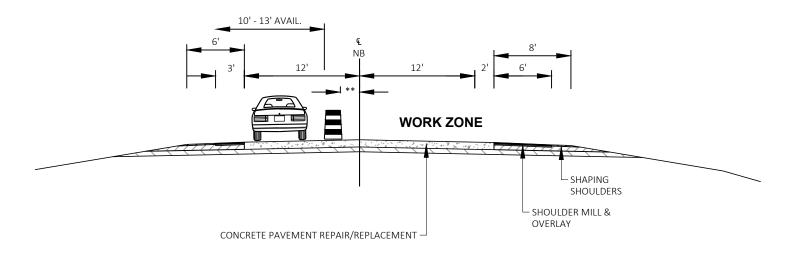
ANY SIGNS TEMPORARY OR EXISTING WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND AS APPROVED BY THE ENGINEER.

USH 53 NB RIGHT TURN LANES SHALL BE OPEN WHEN THE OUTSIDE LANE IS CLOSED. INTERSECTION STAGING SHALL BE DETERMINED BY CONTRACTOR MEANS AND METHODS. INTERSECTION STAGING SHALL BE APPROVED BY THE ENGINEER



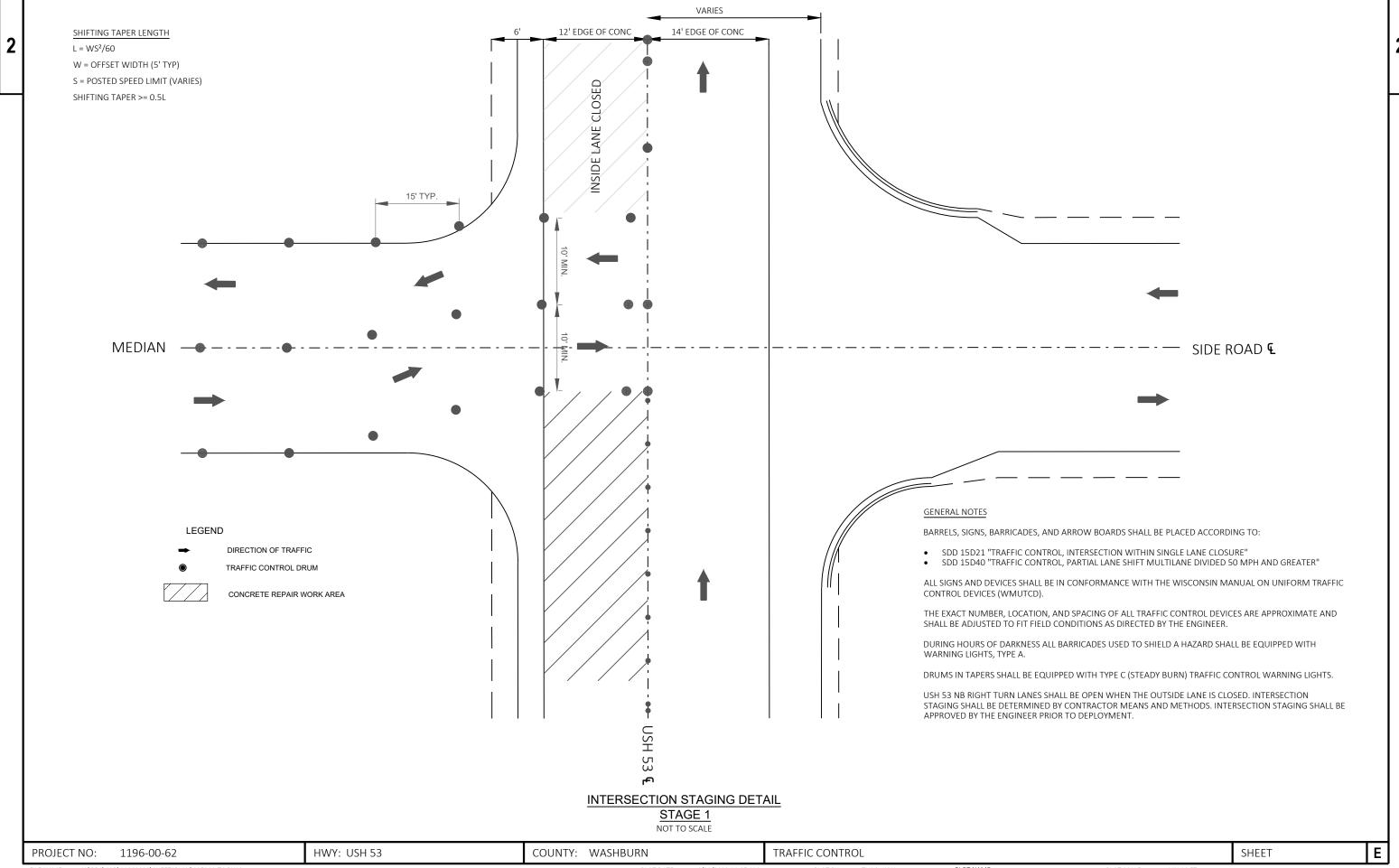
TRAFFIC CONTROL - STAGE 1 - INSIDE LANE CLOSED STA: 622+54.77 - 751+38.23 NB

- ** NOTE
- UP TO 3' FOR CENTERLINE JOINT REPAIR

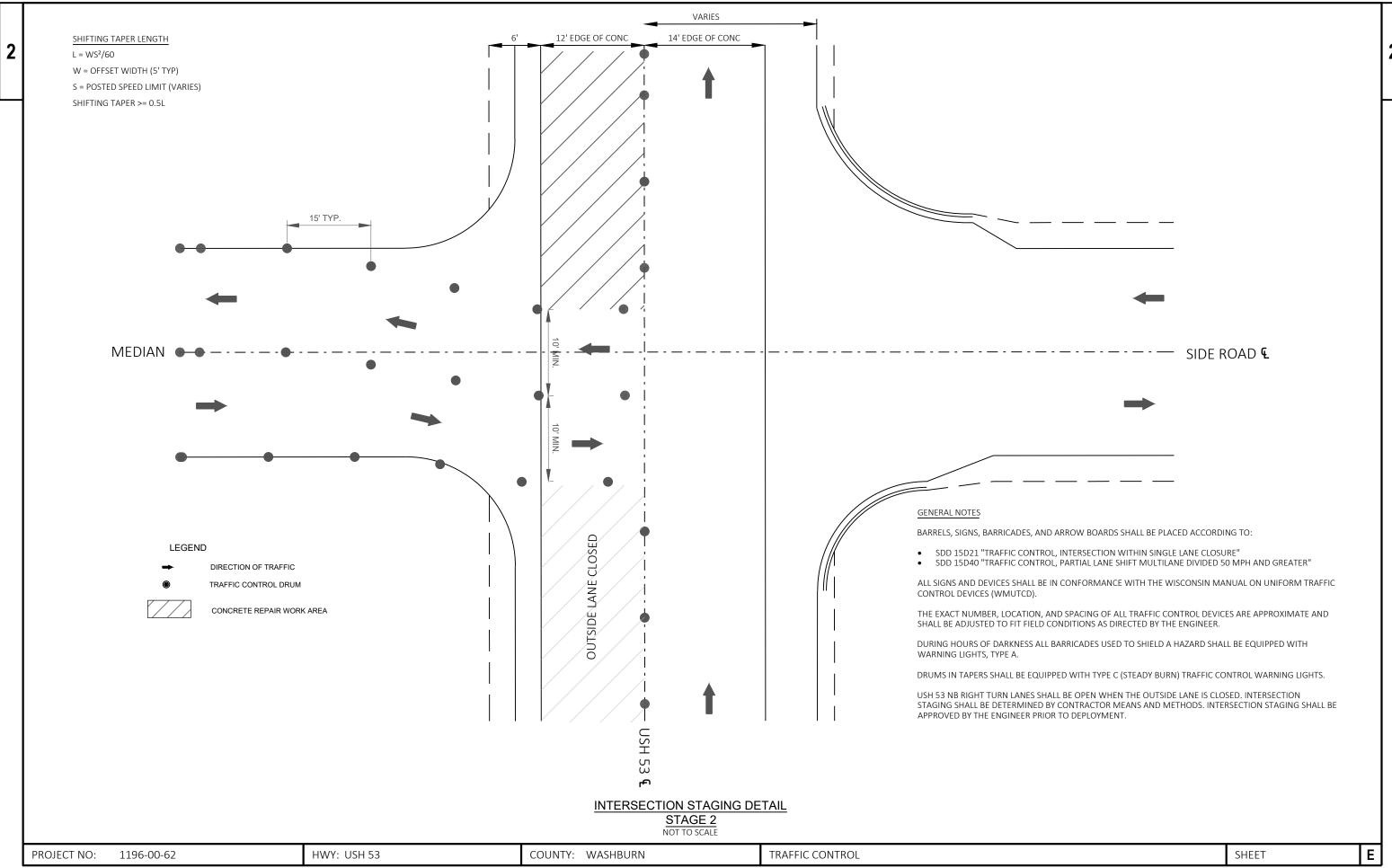


TRAFFIC CONTROL - STAGE 2 - OUTSIDE LANE CLOSED STA: 622+54.77 - 751+38.23 NB

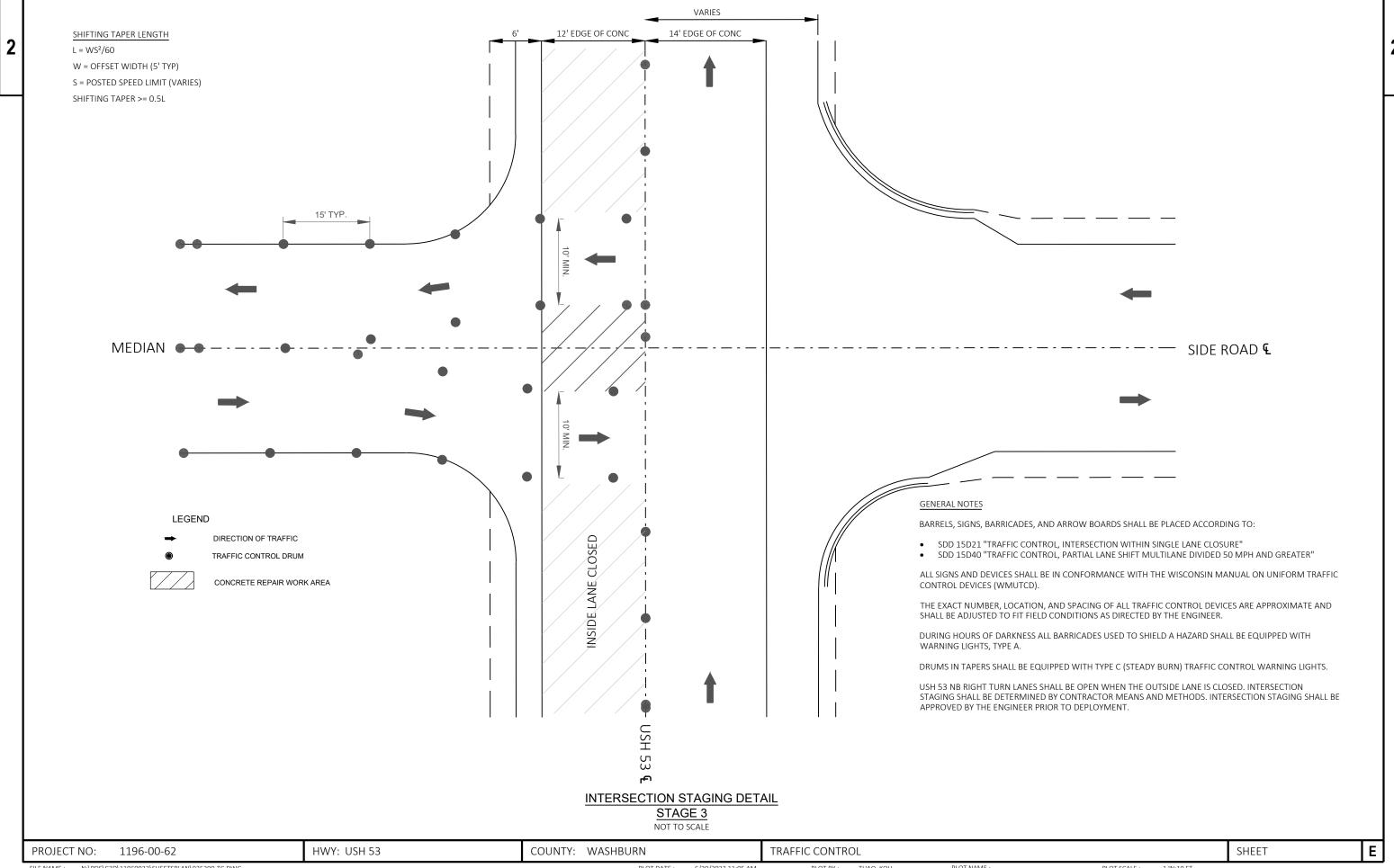
PROJECT NO: 1196-00-62 HWY: USH 53 COUNTY: WASHBURN TRAFFIC CONTROL **SHEET** PLOT BY: THAO, KOU PLOT NAME PLOT SCALE : FILE NAME : N:\PDS\C3D\11960032\SHEETSPLAN\025200-TC.DWG 6/30/2022 11:05 AM 1 IN:10 FT WISDOT/CADDS SHEET 42



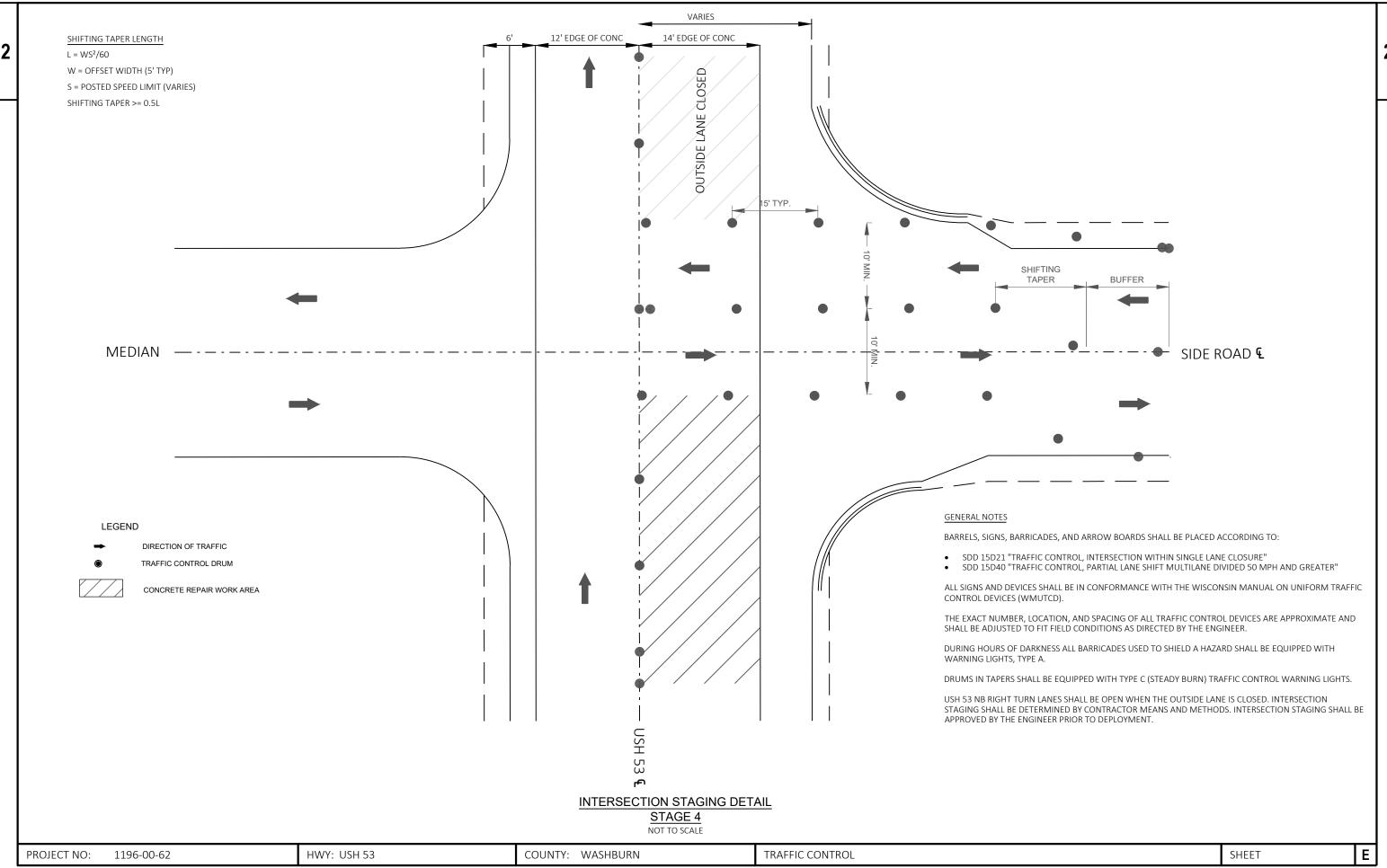
FILE NAME: N:\PDS\C3D\\11960032\SHEETSPLAN\025200-TC.DWG PLOT NAME: PLOT SCALE: 1 IN:10 FT WISDOT/CADDS SHEET 42 AYOUT NAME - TC-2



FILE NAME: N:\PDS\C3D\11960032\SHEETSPLAN\025200-TC.DWG PLOT NAME: PLOT SCALE: 1 IN:10 FT WISDOT/CADDS SHEET 42
LAYOUT NAME - TC-3

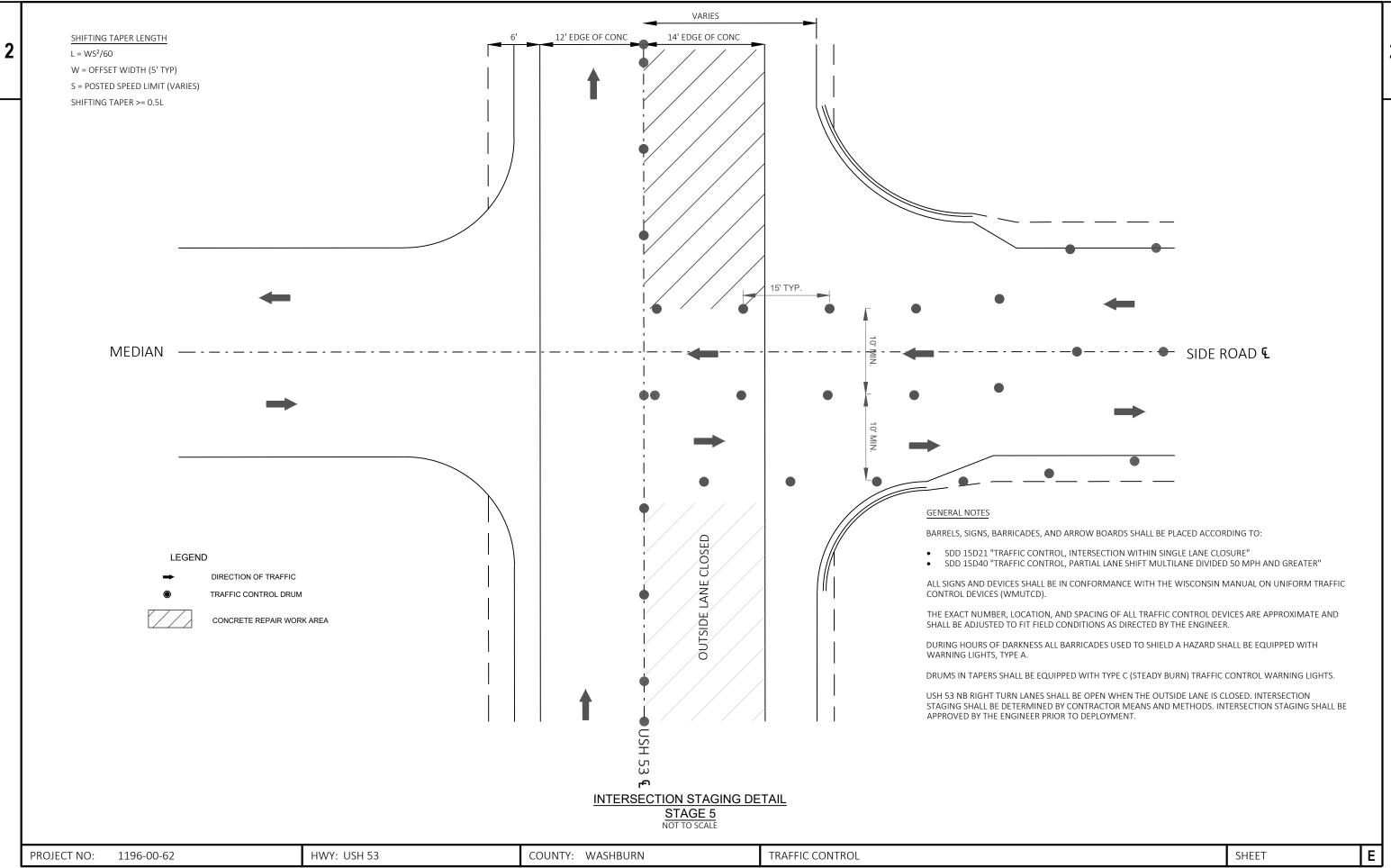


FILE NAME: N:\PDS\C3D\\11960032\SHEETSPLAN\025200-TC.DWG PLOT NAME: PLOT SCALE: 1 IN:10 FT WISDOT/CADDS SHEET 42
LAYOUT NAME - TC-4

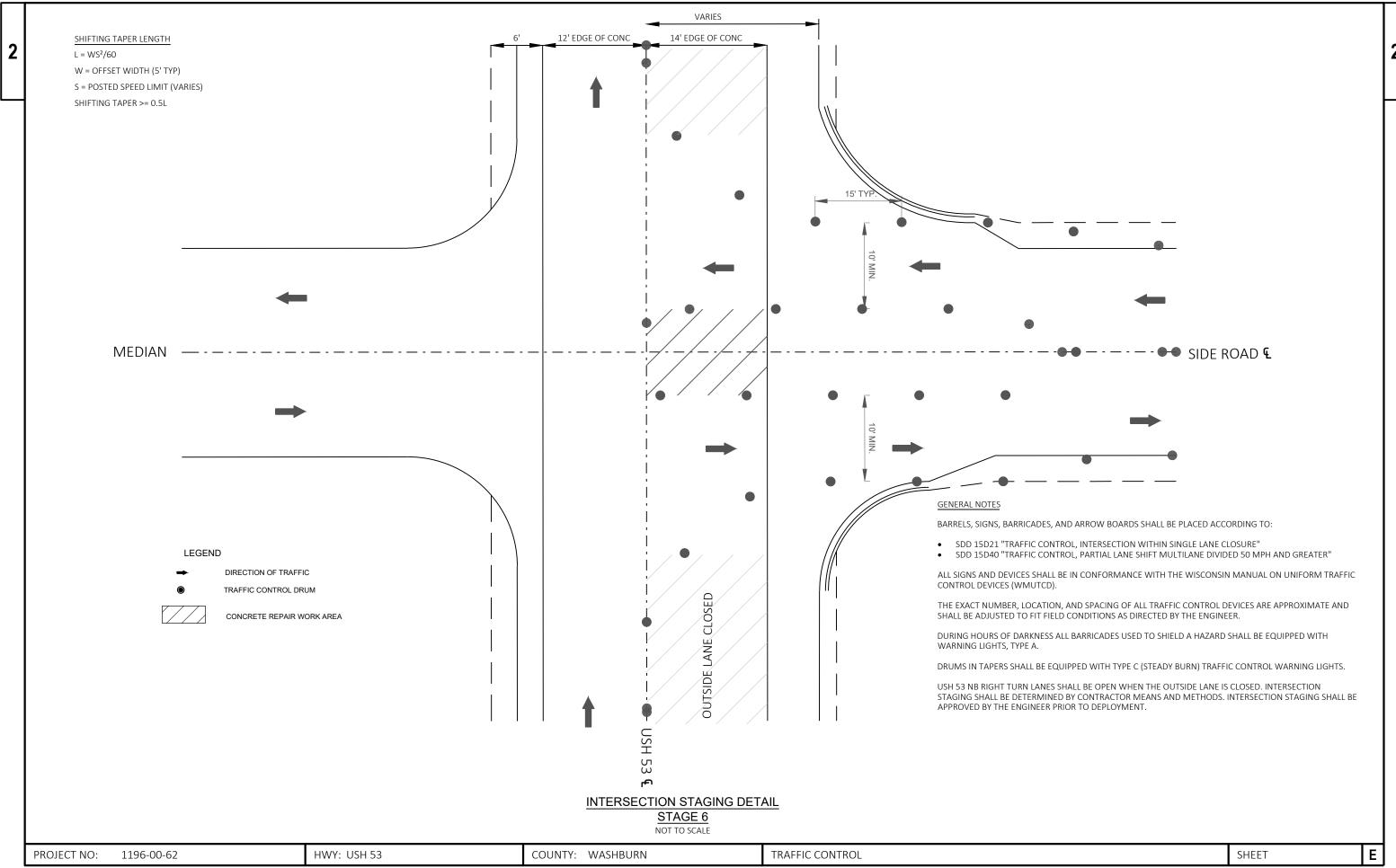


FILE NAME: N:\PDS\C3D\11960032\SHEETSPLAN\025200-TC.DWG PLOT NAME: PLOT SCALE: 1 IN:10 FT WISDOT/CADDS SHEET 42

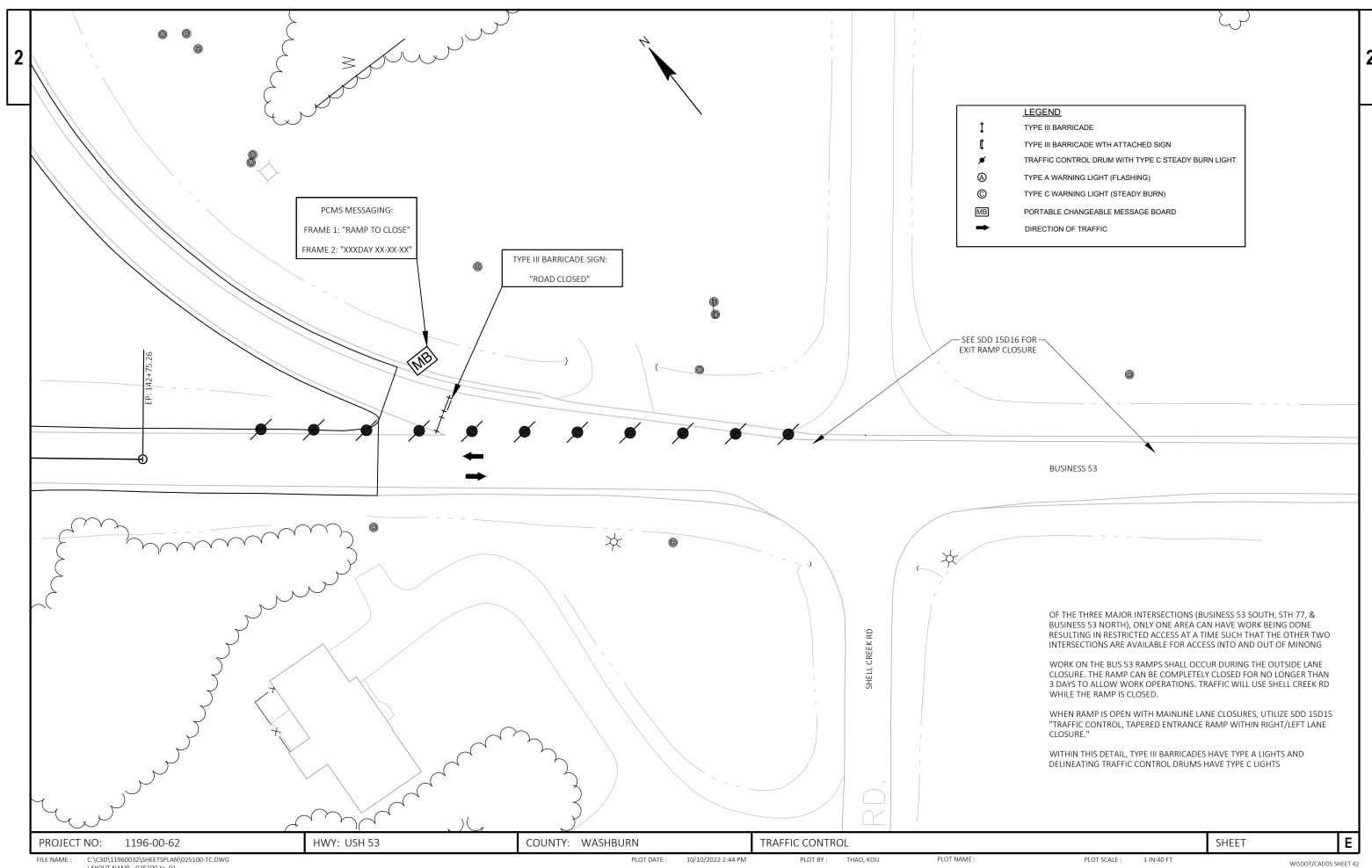
LAYOUT NAME - TC-5



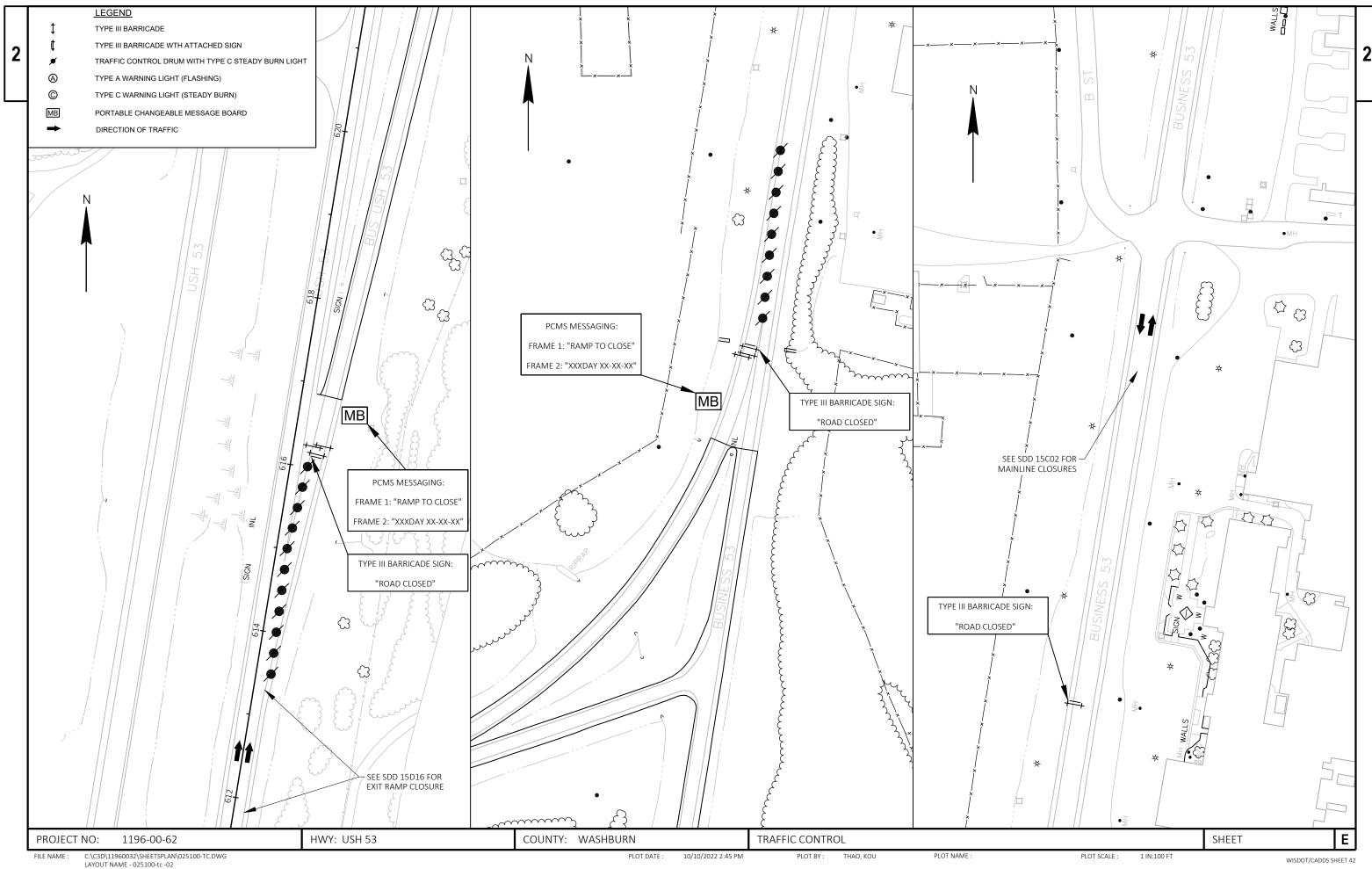
FILE NAME: N:\PDS\C3D\\11960032\SHEETSPLAN\025200-TC.DWG PLOT NAME: PLOT SCALE: 1 IN:10 FT WISDOT/CADDS SHEET 42
LAYOUT NAME - TC-6



FILE NAME: N:\PDS\C3D\11960032\SHEETSPLAN\025200-TC.DWG PLOT NAME: PLOT SCALE: 1 IN:10 FT WISDOT/CADDS SHEET 42



LAYOUT NAME - 025100-tc -01



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					1196-00-62	
Line	Item	Item Description	Unit	Total	Qty	
0002	204.0100	Removing Concrete Pavement	SY	4,524.000	4,524.000	
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	600.000	600.000	
0006	204.0120	Removing Asphaltic Surface Milling	SY	30,875.000	30,875.000	
8000	208.1100	Select Borrow	CY	68.000	68.000	
0010	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 1196-00-62	EACH	1.000	1.000	
0012	213.0100	Finishing Roadway (project) 01. 1196-00-62	EACH	1.000	1.000	
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	360.000	360.000	
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	94.000	94.000	
0018	305.0500	Shaping Shoulders	STA	318.000	318.000	
0020	415.0090	Concrete Pavement 9-Inch	SY	4,524.000	4,524.000	
0022	416.0610	Drilled Tie Bars	EACH	1,819.000	1,819.000	
0024	416.0620	Drilled Dowel Bars	EACH	610.000	610.000	
0026	455.0605	Tack Coat	GAL	3,899.000	3,899.000	
0028	460.2000	Incentive Density HMA Pavement	DOL	2,160.000	2,160.000	
0030	460.6244	HMA Pavement 4 MT 58-34 S	TON	3,363.000	3,363.000	
0032	465.0110	Asphaltic Surface Patching	TON	200.000	200.000	
0034	465.0400	Asphaltic Shoulder Rumble Strips	LF	21,442.000	21,442.000	
0036	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	2.000	2.000	
0038	520.8700	Cleaning Culvert Pipes	EACH	3.000	3.000	
0030	606.0200	Riprap Medium	CY	5.000	5.000	
0040	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1196-00-62	EACH	1.000	1.000	
0042	619.1000	Mobilization	EACH	1.000	1.000	
0044	624.0100	Water	MGAL	25.000	25.000	
0048	628.1504	Silt Fence	LF	330.000	330.000	
0040	628.1520	Silt Fence Maintenance	LF	50.000	50.000	
0052	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000	
0054	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0056	628.7504	Temporary Ditch Checks	LF	75.000	75.000	
0058	633.5200	Markers Culvert End	EACH	24.000	24.000	
0060	642.5001	Field Office Type B	EACH	1.000	1.000	
0062	643.0300	Traffic Control Drums	DAY	25,060.000	25,060.000	
0064	643.0420	Traffic Control Barricades Type III	DAY	1,285.000	1,285.000	
0066	643.0705	Traffic Control Warning Lights Type A	DAY	1,390.000	1,390.000	
0068	643.0715	Traffic Control Warning Lights Type C	DAY	1,445.000	1,445.000	
0070	643.0800	Traffic Control Arrow Boards	DAY	100.000	100.000	
0072	643.0900	Traffic Control Signs	DAY	4,915.000	4,915.000	
0074	643.1050	Traffic Control Signs PCMS	DAY	30.000	30.000	
0076	643.3155	Temporary Marking Line Removable Contrast Tape 4-Inch	LF	200.000	200.000	
0078	643.3255	Temporary Marking Line Removable Contrast Tape 8-Inch	LF	400.000	400.000	
0800	643.5000	Traffic Control	EACH	1.000	1.000	
0082	645.0120	Geotextile Type HR	SY	173.000	173.000	
0084	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	40,418.000	40,418.000	
0086	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	1,230.000	1,230.000	
8800	646.5020	Marking Arrow Epoxy	EACH	7.000	7.000	
0090	646.5120	Marking Word Epoxy	EACH	7.000	7.000	
0092	646.6120	Marking Stop Line Epoxy 18-Inch	LF	116.000	116.000	
0094	646.9000	Marking Removal Line 4-Inch	LF	350.000	350.000	
0096	650.8000	Construction Staking Resurfacing Reference	LF	13,500.000	13,500.000	
0098	650.9911	Construction Staking Supplemental Control (project) 01. 1196-00-62	EACH	1.000	1.000	

01/12/2023 14:07:05

Estimate	Of	Quantities
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Page 2

					1196-00-62
Line	Item	Item Description	Unit	Total	Qty
0100	690.0150	Sawing Asphalt	LF	722.000	722.000
0102	690.0250	Sawing Concrete	LF	22,382.000	22,382.000
0104	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	1,357.000	1,357.000
0106	SPV.0180	Special 01. Concrete Pavement Repair Doweled	SY	325.000	325.000
0108	SPV.0180	Special 02. Concrete Pavement Replacement Doweled	SY	3,895.000	3,895.000
0110	SPV.0180	Special 03. 30-inch Concrete Centerline Repair	SY	65.000	65.000



204.0120 REMOVING

ASPHALTIC SURFACE MILLING

30,875

CATEGORY STATION TO STATION LOCATION SY REMARKS 622+55 - 642+48 NB LEFT ASPHALT SHOULDER 665 PROJECT BEGIN LIMIT 0010 0010 642+48 - 644+06 MINONG SOUTH BUSINESS 53 MEDIAN 591 0010 NB LEFT ASPHALT SHOULDER 677 644+06 - 664+37 0010 664+37 - 665+39 MEDIAN 588 0010 665+39 - 678+08 NB LEFT ASPHALT SHOULDER 423 NORTH LIMIT AT RECENT PAVING 0010 698+18 NB LEFT ASPHALT SHOULDER 129 SOUTH LIMIT AT RECENT PAVING - 702+05 0010 702+05 - 703+85 WALLACE ST MEDIAN 680 0010 703+85 - 718+33 NB LEFT ASPHALT SHOULDER 483 0010 718+33 - 719+68 MINONG NORTH BUSINESS 53 MEDIAN 445 0010 719+68 - 751+38 NB LEFT ASPHALT SHOULDER 1,057 PROJECT END LIMIT SOUTH BUSINESS 53 & RAMPS 0010 616+87 - 645+98 11,725 0010 622+55 - 640+77 NB RIGHT ASPHALT SHOULDER 1,215 PROJECT BEGIN LIMIT 0010 640+77 - 644+30 RIGHT TURN LANE & MINONG SOUTH BUSINESS 53 811 0010 NORTH LIMIT AT RECENT PAVING 644+30 677+08 NB RIGHT ASPHALT SHOULDER 2,186 0010 683+78 689+58 RIGHT TURN LANE & SHOULDER THROUGH STH 77 733 SOUTH LIMIT AT RECENT PAVING 0010 689+58 - 702+24 NB RIGHT ASPHALT SHOULDER 844 0010 702+24 - 703+79 NB RIGHT ASPHALT SHOULDER & WALLACE ST 376 0010 717 703+79 - 714+54 NB RIGHT ASPHALT SHOULDER 0010 714+54 - 720+43 RIGHT TURN LANE & MINONG NORTH BUSINESS 53 1,401 0010 719+03 - 725+28 NORTH BUSINESS 53 & RAMPS 2,546 0010 720+43 726+20 NB RIGHT ASPHALT SHOULDER 385 0010 725+35 726+20 NB RAMP LEFT ASPHALT SHOULDER 29 0010 725+35 729+73 NB RIGHT GORE AREA 433 0010 725+35 - 751+38 NB RAMP/MAINLINE RIGHT ASPHALT SHOULDER 1,736 PROJECT END LIMIT

TOTAL 0010

204.0115
REMOVING ASPHALTIC
SURFACE BUTT JOINTS
CATEGORY LOCATION SY F

CATEGORY	LOCATION	SY	REMARKS
0010	PROJECT	600	UNDISTRIBUTED
	TOTAL 0010	600	

208.1100 SELECT BORROW

			SELECT BURNUW	
CATEGORY	STATION	LOCATION	CY	REMARKS
0010	645+90 RT		68	REPAIR ONE-FOOT DROP OFF
		TOTAL 0010	68	

2211.0101
PREPARE FOUNDATION
FOR ASPHALTIC PAVING
CATEGORY LOCATION EACH REMARKS

0010 PROJECT 1 SHLDS, TURNLANES, ROADWAY, RAMPS

TOTAL 0010

213.0100.01 FINISHING ROADWAY (PROJECT) (01. 1196-00-62)

		(FROJECT) (01. 1130-00-02)	
CATEGORY	LOCATION	EACH	REMARKS
0010	PROJECT	1	PROJECT LIMITS
	TOTAL 0010	1	

PROJECT NO: 1196-00-62 HWY: USH 53 COUNTY: WASHBURN MISCELLANEOUS QUANTITIES SHEET: **E**

7
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SHEET:

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CATEGORY	STATION TO STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4- INCH TON	<u>CATEGORY</u>	STATION TO) STATION	LOCATION	305.0120 BASE AGGREGATE DENSE 1 1/4- INCH TON	REMARKS
0010	622+55 - 642+78		30	0010	675+35 -	675+88	LT	1	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	644+06 - 664+44		30	0010	704+39 -		LT	1	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010 0010	665+29 - 678+08 698+18 - 702+20		19 6	0010		712+31	LT	1	OUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	703+63 - 718+46		22	0010	711+78 -		LT	1	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	719+65 - 751+38		47	0010	712104 -	/1313/	LI	1	QUANTITITIS BASED ON AN ESTIMATED 2-INCITES OF DEFITITE EN ANEA
0010	616+87 - 645+98	SOUTH BUSINESS 53 & RAMPS	81	0010	715+48 -		LT	2	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	622+55 - 641+12	NB RIGHT SHOULDER	19	0010	719+17 -	,	LT	3	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	644+36 - 664+71	NB RIGHT SHOULDER	20	0010	724+45 -	724+98	LT	1	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	665+15 - 677+08	NB RIGHT SHOULDER	12						
0010	689+58 - 702+31	NB RIGHT SHOULDER	13	0010	631+00 -	631+53	RT	1	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	703+46 - 714+88	NB RIGHT SHOULDER	12	0010	635+22 -	030.20	RT	2	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	719+03 - 725+28	NORTH BUSINESS 53 & RAMPS	16	0010	639+97 -	0.12.00	RT	2	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	721+43 - 725+35	NB RIGHT SHOULDER	4	0010	643+14 -	013.23	RT	4	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	725+35 - 726+20		4	0010	670+60 -	671+65	RT	2	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010 0010	726+20 - 747+00 747+97 - 751+38	NB RIGHT SHOULDER NB RIGHT SHOULDER	21 4						
0010	/4/+3/ - /31+30	NB RIGHT SHOOLDER	4	0010	674+82 -	001.55	RT	14	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
		TOTAL 0010	360	0010	685+38 -	694+89	RT	14	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
		101/12 0010	300	0010	700+17 -	700+69	RT	1	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
				0010	704+39 -	707+03	RT	4	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
				0010	709+67 -	710+73	RT	2	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
				0010	711+25 -	711+78	RT	1	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
			305.0500	0010	712+31 -	713+37	RT	2	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
			SHAPING	0010	715+48 -	718+65	RT	5	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
			SHOULDERS	0010	719+17 -	722+87	RT	6	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
CATEGORY	STATION TO STATION	LOCATION	STA	0010	727+09 -	727+62	RT	1	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	622+55 - 642+78	NB LEFT SHOULDER	21	0010	731+32 -		RT	2	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	644+06 - 664+44	NB LEFT SHOULDER	21	0010		733+96	RT	2	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	665+29 - 678+08	NB LEFT SHOULDER	13	0010	735+01 -		RT	4	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	698+18 - 702+20	NB LEFT SHOULDER	5						
0010	703+63 - 718+46	NB LEFT SHOULDER	15	0010	739+24 -	742+41	RT	5	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	719+65 - 751+38	NB LEFT SHOULDER	32	0010	743+99 -	744+52	RT	1	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	616:07	COLITI DI ICINITOCETA O DANADO	0.4	0010	745+05 -	746+10	RT	2	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010 0010	616+87 - 645+98 622+55 - 641+12	SOUTH BUSINESS 53 & RAMPS NB RIGHT SHOULDER	84 19	0010	746+63 -	747+69	RT	2	QUANTITY IS BASED ON AN ESTIMATED 2-INCHES OF DEPTH PER AREA
0010	644+36 - 664+71	NB RIGHT SHOULDER	21						
0010	665+15 - 677+08	NB RIGHT SHOULDER	12				PROJECT	4	UNDISTRIBUTED FOR LANE REPAIR AREAS
0010	689+58 - 702+31	NB RIGHT SHOULDER	13				PROJECT	1	UNDISTRIBUTED FOR 30-INCH CL JOINT REPAIR AREAS
0010	703+46 - 714+88	NB RIGHT SHOULDER	12						_
0010	719+03 - 725+28	NORTH BUSINESS 53 & RAMPS	20				TOTAL 0010	94	-
0010	721+43 - 725+35	NB RIGHT SHOULDER	4						
0010	725+35 - 726+20	NB RIGHT SHOULDER	1						
0010	726+20 - 747+00	NB RIGHT SHOULDER	21						
0010	747+97 - 751+38	NB RIGHT SHOULDER	4						
		TOTAL 0010	318						

MISCELLANEOUS QUANTITIES

COUNTY: WASHBURN FILE NAME: N:\PDS\...\030200_mq.pptx PLOT DATE: December 20, 2022 PLOT BY: A.R.H. PLOT NAME : PLOT SCALE: 1:1

HWY: USH 53

PROJECT NO: 1196-00-62

					415.0090
					CONCRETE
					PAVEMENT 9-
CATEGORY	STATION	TO	STATION	LOCATION	SY
0010	674+82	-	684+33	RT	1,480
0010	685+38	-	694+89	RT	1,480
0010	715+48	-	718+65	RT	494
0010	719+17	-	722+87	RT	576
0010	739+24	-	742+41	RT	494
				TOTAL 0010	4,524

CATEGORY	STATION TO STATION	LOCATION	DRILLED TIE BARS EACH	DRILLED DOWEL BARS EACH	REMARKS
0010	675+35 - 675+88	LT	17	18	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	704+39 - 704+92	LT	17	18	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	711+78 - 712+31	LT	17	18	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	712+84 - 713+37	LT	17	18	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	715+48 - 717+06	LT	52	18	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	719+17 - 721+29	LT	70	18	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	724+45 - 724+98	LT	17	18	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	631+00 - 631+53	RT	17	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	635+22 - 636+28	RT	35	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	639+97 - 641+03	RT	35	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	643+14 - 645+25	RT	70	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	670+60 - 671+65	RT	35	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	674+82 - 684+33	RT	317	22	CONCRETE PAVEMENT 9-INCH SECTION
0010	685+38 - 694+89	RT	317	22	CONCRETE PAVEMENT 9-INCH SECTION
0010	700+17 - 700+69	RT	17	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	704+39 - 707+03	RT	87	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	709+67 - 710+73	RT	35	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	711+25 - 711+78	RT	17	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	712+31 - 713+37	RT	35	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	715+48 - 718+65	RT	105	22	CONCRETE PAVEMENT 9-INCH SECTION
0010	719+17 - 722+87	RT	123	22	CONCRETE PAVEMENT 9-INCH SECTION
0010	727+09 - 727+62	RT	17	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	731+32 - 732+37	RT	35	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	732+90 - 733+96	RT	35	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	735+01 - 737+65	RT	88	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	739+24 - 742+41	RT	105	22	CONCRETE PAVEMENT 9-INCH SECTION
0010	743+99 - 744+52	RT	17	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	745+05 - 746+10	RT	35	22	CONCRETE PAVEMENT REPLACEMENT SECTION
0010	746+63 - 747+69	RT	35	22	CONCRETE PAVEMENT REPLACEMENT SECTION
		TOTAL 0010	1,819	610	

416.0610

416.0620

PROJECT NO: 1196-00-62 HWY: USH 53 COUNTY: WASHBURN MISCELLANEOUS QUANTITIES SHEET: **E**

FILE NAME: N:\PDS\...\030200_mq.pptx PLOT BY: A.R.H. PLOT NAME: PLOT NAME: PLOT SCALE: 1:1

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CATEGORY	STATION TO STATION	LOCATION	455.0605 TACK COAT GAL	460.6244 HMA PAVEMENT 4 MT 58-34 S TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0400 ASPHALTIC SHOULDER RUMBLE STRIPS LF	REMARKS
							ALL LOCATIONS HAVE BEEN MULTIPLIED BY 2 FOR TACK COAT TO ESTIMATE WITH 2 LIFTS
0010	622+55 - 642+48	NB LEFT ASPHALT SHOULDER	87	75		1,993	PROJECT BEGIN LIMIT
0010	642+48 - 644+06	MINONG SOUTH BUSINESS 53 MEDIAN	77	67			
0010	644+06 - 664+37	NB LEFT ASPHALT SHOULDER	89	76		2,031	
0010	664+37 - 665+39	MEDIAN	38	33			
0010	665+39 - 678+08	NB LEFT ASPHALT SHOULDER	55	48		1,269	NORTH LIMIT AT RECENT PAVING
0010	698+18 - 702+05	NB LEFT ASPHALT SHOULDER	17	15		387	SOUTH LIMIT AT RECENT PAVING
0010	702+05 - 703+85	WALLACE ST MEDIAN	51	44			
0010	703+85 - 718+33	NB LEFT ASPHALT SHOULDER	63	55		1,448	
0010	718+33 - 719+68	MINONG NORTH BUSINESS 53 MEDIAN	34	30			
0010	719+68 - 751+38	NB LEFT ASPHALT SHOULDER	138	119		3,170	PROJECT END LIMIT
0010	616+87 - 645+98	SOUTH BUSINESS 53 & RAMPS	1,525	1,314			
0010	622+55 - 640+77	NB RIGHT ASPHALT SHOULDER	158	137		1,822	PROJECT BEGIN LIMIT
0010	640+77 - 644+30	RIGHT TURN LANE & MINONG SOUTH BUSINESS 53	106	91			
0010	644+30 - 677+08	NB RIGHT ASPHALT SHOULDER	285	245		3,278	NORTH LIMIT AT RECENT PAVING
0010	683+78 - 689+58	RIGHT TURN LANE & SHOULDER THROUGH STH 77	96	82			SOUTH LIMIT AT RECENT PAVING
0010	689+58 - 702+24	NB RIGHT ASPHALT SHOULDER	110	95		1,266	
0010	702+24 - 703+79	NB RIGHT ASPHALT SHOULDER & WALLACE ST	44	38			
0010	703+79 - 714+54	NB RIGHT ASPHALT SHOULDER	94	81		1,075	
0010	714+54 - 720+43	RIGHT TURN LANE & MINONG NORTH BUSINESS 53	163	140			
0010	719+03 - 725+28	NORTH BUSINESS 53 & RAMPS	331	286			
0010	720+43 - 726+20	NB RIGHT ASPHALT SHOULDER	51	44		577	
0010	725+35 - 726+20	NB RAMP LEFT ASPHALT SHOULDER	4	4		85	
0010	725+35 - 729+73	NB RIGHT GORE AREA	57	49		438	
0010	725+35 - 751+38	NB RAMP/MAINLINE RIGHT ASPHALT SHOULDER	226	195		2,603	PROJECT END LIMIT
					200		UNDISTRIBUTED
		TOTAL 0010	3,899	3,363	200	21,442	

PROJECT NO: 1196-00-62 HWY: USH 53 COUNTY: WASHBURN MISCELLANEOUS QUANTITIES SHEET: **E**

FILE NAME: N:\PDS\...\030200_mq.pptx PLOT BY: A.R.H. PLOT NAME: PLOT NAME: PLOT SCALE: 1:1

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			520.1024 APRON ENDWALLS	520.8700						
			FOR CULVERT PIPE	CLEANING					606.0200	
			24-INCH	CULVERT PIPES					RIPRAP MEDIUM	
CATEGORY	STATION	LOCATION	EACH	EACH	REMARKS	CATEGORY	STATION	LOCATION	CY	REMARKS
0010	645+90	RT	1		REPAIR OF ONE-FOOT DROP AT ENDWALL (CONCRETE)	0010	645+90	RT	5	REPAIR OF ONE-FOOT DROP AT ENDWALL (CONCRETE)
0010	702+07	RT	1		REPLACES 24-INCH CONCRETE AEW					
0010	702+87			1				TOTAL 0010	5	
0010	726+36			1						
0010	737+69			1						

618.0100.01 MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT 1196-00-62)

TOTAL 0010

LOCATION CATEGORY EACH 0010 PROJECT 1 TOTAL 0010

		619.1000
		MOBILIZATION
CATEGORY	LOCATION	EACH
0010	PROJECT	1
	TOTAL 0010	1

		624.0100 WATER	
CATEGORY	LOCATION	MGAL	REMARKS
0010	PROJECT	25	UNDISTRIBUTED
	TOTAL 0010	25	

			628.1504	628.1520	628.1905	628.1910	628.7504				633.5200			
						MOBILIZATIONS					MARKERS CULVERT END			
					MOBILIZATIONS	EMERGENCY		CATEGORY	STATION	LOCATION	EACH			
				SILT FENCE	EROSION	EROSION	TEMPORARY							
			SILT FENCE	MAINTENANCE	CONTROL	CONTROL	DITCH CHECKS	0010	634+71	LT & RT	2			
CATEGORY	STATION	LOCATION	LF	LF	EACH	EACH	LF	0010	643+41	LT & RT	2			
								0010	645+90	LT & RT	2			642.5001
0010		PROJECT			2	2		0010	661+89	LT & RT	2			FIELD OFFICE TYPE B
0010	702+25	LT					15	0010	664+88	LT & RT	2	CATEGORY	LOCATION	EACH
0010	703+75	LT					15	0010	677+78	LT & RT	2			_
0010	726+15	LT					15					0010	PROJECT	1
0010	726+36	LT	115	15				0010	695+72	LT & RT	2			
0010	726+36	RT	80	10				0010	702+07	LT & RT	2		TOTAL 0010	1
0010	737+50	LT					15	0010	702+87	LT & RT	2			
0010	737+69	LT	40	10				0010	718+23	LT & RT	2			
0010	737+69	RT	95	15				0010	726+36	LT & RT	2			
0010	737+90	LT					15	0010	737+69	LT & RT	2			
		TOTAL 0010	330	50	2	2	75			TOTAL 0010	24			

HWY: USH 53 SHEET: Ε PROJECT NO: 1196-00-62 COUNTY: WASHBURN MISCELLANEOUS QUANTITIES

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		643.0300	643.0420	643.0705	643.0715	643.0800	643.0900	643.1050	643.5000	
		TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III	TRAFFIC CONTROL WARNING LIGHTS TYPE A	TRAFFIC CONTROL WARNING LIGHTS TYPE C	TRAFFIC CONTROL ARROW BOARDS	TRAFFIC CONTROL SIGNS	TRAFFIC CONTROL SIGNS PCMS	TRAFFIC CONTROL	
CATEGORY	LOCATION	DAY	DAY	DAY	DAY	DAY	DAY	DAY	EACH	REMARKS
0010	PROJECT								1	
0010	PROJECT START	1,900	50	100	700	100	650			PER SDD TRAFFIC CONTROL, LANE CLOSURE SPEED REDUCTION
0010	PROJECT START	1,000	100	200	250		200			PER SDD TRAFFIC CONTROL, PARALLEL EXIT RAMP WITH LANE CLOSURE
0010	WALLACE ST, WOODYARD ENTRANCE	1,300	100				700			RIGHT LANE CLOSED; NO RTL BAY
0010	BUS 53 SOUTH, STH 77, BUS 53 NORTH	7,650	150				1,050			RIGHT LANE CLOSED; RTL BAY
0010	BUS 53 SOUTH, MEDIAN 1, WALLCE ST, BUS 53 NORTH	3,400	200				1,200			LEFT LANE CLOSED; NO LTL BAY
0010	BUS 53 SOUTH & NORTH RAMPS	810	135	90	495		315			RAMP CLOSURES
0010	STH 77	2,750	50				300			LEFT LANE CLOSED; LTL BAY
0010	MAINLINE LENGTH	6,250	500	1,000			500			APPROX 12,500 LF
0010	PROJECT							30		ESTIMATING 3 PCMS FOR 10 DAYS PRECONSTRUCTION ANNOUNCEMENT
	TOTAL 0010	25,060	1,285	1,390	1,445	100	4,915	30	1	

CATEGORY STATION LOCATION SY REMARKS

0010 645+90 RT 173 REPAIR ONE-FOOT DROP OFF

TOTAL 0010 173

PROJECT NO: 1196-00-62 HWY: USH 53 COUNTY: WASHBURN MISCELLANEOUS QUANTITIES SHEET: **E**

STATION	N TO	STATION		LOCATIO	ON	646.1545 MARKING LINE GROOVE WET REF CONTRAST EPO 4-INCH LF		646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	REMARKS
616+87		645+98		SOUTH BUSINESS !	53 & RAMPS	4,345				16	WHITE
616+87		645+98		SOUTH BUSINESS !		4,270					YELLOW
622+54		642+60		RT EDGEL		2,006					WHITE
641+30		642+60		RIGHT TURN LANE C			130				WHITE
641+13		642+51		RIGHT TURN				1	1		RIGHT TURN ARROW; "ONLY"
		643+50		BUS 53 SOU	·					20	WHITE
644+00				RT EDGEL		4,338					WHITE
681+50		682+50		RIGHT TURN				1	1		RIGHT TURN ARROW; "ONLY"
683+75		687+40		RIGHT TURN LANE C			365				WHITE
685+50		686+50		RIGHT TURN		4.040		1	1		RIGHT TURN ARROW; "ONLY"
688+87		702+30		RT EDGEL		1,343					WHITE
703+30		718+61		RTEDGEL		1,531	252				WHITE
715+10		718+60		RIGHT TURN LANE C			350				WHITE
715+41		715+85		RIGHT TURN				1	1		RIGHT TURN ARROW; "ONLY"
718+05		718+45		RIGHT TURN		4.007		1	1		RIGHT TURN ARROW; "ONLY"
719+03		725+28		NORTH BUSINESS		1,237					WHITE
719+03	-	725+28		NORTH BUSINESS		1,078				20	YELLOW
710.03		719+50		BUS 53 NOR	•	1 220				20	WHITE
719+92		733+31	DUCEAN	RT EDGELINE INTO		1,339					WHITE
725+35		733+31	BO2 53 I		LINE INTO RIGHT GORE	796					WHITE
725+35	-	751+39		RT EDGLI	INE	2,604					WHITE
622+54	_	642+72		LTEDGEL	INE	2,018					YELLOW
		643+50	BUS 5	3 SOUTH MEDIAN (B	OTH DIRECTIONS); LT					60	WHITE
644+06	-	686+63		LT EDGEL	INE	4,257					YELLOW
681+60	-	682+50		LEFT TURN	LANE			1	1		LEFT TURN ARROW; "ONLY"
683+75	-	687+60		LEFT TURN LANE CH	HANNELIZING		385				WHITE
685+50	-	686+50		LEFT TURN	LANE			1	1		LEFT TURN ARROW; "ONLY"
688+46	-	702+20		LT EDGEL	INE	1,374					YELLOW
703+62	-	718+46		LT EDGEL	INE	1,484					YELLOW
719+66	-	751+39		LT EDGEL	INE	3,173					YELLOW
622+54	-	751+39		RL; ON LEFT LAI	NE PANEL	3,225					WHITE SKIPS
				TOTAL 00	010	40,418	1,230	7	7	116	-
					646.9000	643.3155	643.3255				
					MARKING REMOVAL	TEMPORARY MARKING LINE REMOVABLE	TEMPORARY MARKING LINE				
					LINE 4-INCH	CONTRAST TAPE 4-INCH	REMOVABLE CONTRAST TAPE 8-ING	CH			
CATEGORY	STA	IION TO	STATION	LOCATION	LF	LF	LF			REMARKS	
0010	607	+70 -	611+20	RT	350			SDI	O TRAFFIC CONTROI	PARALLEL EXIT RAM	P WITHIN LANE CLOSURE
0010		+70 -	609+70	RT		200					IT RAMP WITHIN LANE CLOSURE
0010		+85 -		RT			400				T RAMP WITHIN LANE CLOSURE
				TOTAL 0010	350	200	400				

I PROJECT NO: 1196-00-62 I HWY: USH 53 I COUNTY: WASHBURN I MISCELLANEOUS QUANTITIES I SHEET: I E

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SHEET:

650.8000

CONSTRUCTION

STAKING

RESURFACING

				LF	REIVIARNS					
)	622+55		ASPHALT SHOULDER; LT	3	PROJECT START	CATEGORY	STATION	TO	STATION	LOCATIC
	643+50		MEDIAN CROSSOVER; LT	60						
	664+90		MEDIAN CROSSOVER; LT	30		0010	616+50	-	751+50	USH 53 N
	678+08		ASPHALT SHOULDER; LT	3	LOCATION OF PREVIOUS HSIP PROJECT START					
	698+18		ASPHALT SHOULDER; LT	3	LOCATION OF PREVIOUS HSIP PROJECT END					TOTAL 00
	702+85		MEDIAN CROSSOVER; LT	40						
	719+25		MEDIAN CROSSOVER; LT	60						
	751+38		ASPHALT SHOULDER; LT	3	PROJECT END					
	616+87		EXIT RAMP, RT	58	GORE, RAMPS					
	622+55		ASPHALT SHOULDER; RT	6	PROJECT START					
	645+98		BUS 53 (SOUTH); RT	40						
	677+08		ASPHALT SHOULDER; RT	6	LOCATION OF PREVIOUS HSIP PROJECT START	CATEGORY	STATION	TO	STATION	LOCATION
	689+58		ASPHALT SHOULDER; RT	6	LOCATION OF PREVIOUS HSIP PROJECT END					
	702+85		WALLACE ST; RT	30		0010	675+35	-	675+88	LEFT LANE
	719+25		BUS 53 (NORTH); RT	62	AT GORE, INCLUDES RAMP	0010	704+39	-	704+92	LEFT LANE
	751+38		ASPHALT SHOULDER; RT	6	PROJECT END	0010	711+78	-	712+31	LEFT LANE
						0010	712+84	-	713+37	LEFT LANE
	675+35 -	675+88	LT	6	SHOULDERS	0010	715+48		717+06	LEFT LANE
	704+39 -	704+92	LT	6	SHOULDERS	0010	719+17		721+29	LEFT LANE
	711+78 -	712+31	LT	6	SHOULDERS	0010	724+45		724+98	LEFT LANE
	712+84 -	713+37	LT	6	SHOULDERS					
	715+48 -	717+06	LT	6	SHOULDERS	0010	631+00	_	631+53	RIGHT LANE
	719+17 -	721+29	LT	6	SHOULDERS	0010	635+22	_	636+28	RIGHT LANE
			LT	6	SHOULDERS	0010	639+97	_	641+03	RIGHT LANE
						0010	643+14		645+25	RIGHT LANE
	631+00 -	631+53	RT	12	SHOULDERS	0010	670+60		671+65	RIGHT LANE
	635+22 -	636+28	RT	12	SHOULDERS	0010	674+82		684+33	RIGHT LANE
	639+97 -	641+03	RT	12	SHOULDERS	0010	685+38		694+89	RIGHT LANE
	643+14 -	645+25	RT	12	SHOULDERS					
	670+60 -	671+65	RT	12	SHOULDERS	0010	700+17	_	700+69	RIGHT LANE
	674+82 -	684+33	RT	12	SHOULDERS	0010	704+39		707+03	RIGHT LANE
	685+38 -	694+89	RT	12	SHOULDERS	0010	709+67		710+73	RIGHT LANE
	700+17 -	700+69	RT	12	SHOULDERS	0010	711+25		711+78	RIGHT LANE
	700+17 -	707+03	RT	12	SHOULDERS	0010	711+23		713+37	RIGHT LANE
		710+73	RT	12	SHOULDERS	0010	715+48		718+65	RIGHT LANE
		710+73	RT	12	SHOULDERS	0010	719+17		722+87	RIGHT LANE
	711+23 -		RT	12	SHOULDERS	3010	. 13.17		,,	
	715+48 -		RT	12	SHOULDERS	0010	727+09	_	727+62	RIGHT LANE
	719+17 -		RT	12	SHOULDERS	0010	731+32			RIGHT LANE
	719+17 -		RT	12	SHOULDERS	0010	732+90		732+96	RIGHT LANE
	731+32 -		RT	12	SHOULDERS	0010	735+01		737+65	RIGHT LANE
	731+32 - 732+90 -				SHOULDERS	0010	, 55101		131103	MOITI LAINE
	732+90 - 735+01 -		RT PT	12		0010	739+24		742+41	RIGHT LANE
			RT	12	SHOULDERS	0010	743+99		742+41	RIGHT LANE
	739+24 -		RT	12	SHOULDERS	0010	745+99			RIGHT LANE
	743+99 -		RT	12	SHOULDERS				746+10 747+69	RIGHT LANE
))	745+05 - 746+63 -		RT RT	12 12	SHOULDERS SHOULDERS	0010	/40+03	-	/4/+09	NIOTI LAINE
	7 -0103 -	, 4, 103	11.1	14	SHOOLDENS					TOTAL 0010

690.0150

SAWING

ASPHALT

LF

REMARKS

LOCATION

HWY: USH 53

CATEGORY

PROJECT NO: 1196-00-62

STATION TO STATION

COUNTY: WASHBURN PLOT DATE: December 20, 2022 PLOT BY: A.R.H. PLOT NAME: PLOT SCALE: 1:1 FILE NAME: N:\PDS\...\030200_mq.pptx

MISCELLANEOUS QUANTITIES

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SPV.0180.01 SPV.0180.02 SPV.0180.03 SPECIAL (02. CONCRETE SPECIAL (01. **PAVEMENT** SPECIAL (03.30-CONCRETE PAVEMENT REPLACEMENT INCH CONCRETE REPAIR DOWELED) DOWELED) CENTERLINE REPAIR) CATEGORY STATION TO STATION LOCATION SY SY SY REMARKS 325 PROJECT 65 UNDISTRIBUTED 0010 675+35 - 675+88 LT 71 71 0010 704+39 - 704+92 LT 71 0010 711+78 - 712+31 LT 0010 712+84 - 713+37 LT 71 LT 0010 715+48 - 717+06 211 0010 719+17 - 721+29 LT 283 0010 724+45 - 724+98 LT 71 0010 RT 83 631+00 - 631+53 0010 635+22 - 636+28 RT 165 0010 639+97 - 641+03 RT 165 RT 0010 643+14 - 645+25 329 0010 670+60 - 671+65 RT 164 RT 0010 700+17 - 700+69 81 0010 RT 411 704+39 - 707+03 0010 709+67 - 710+73 RT 165 0010 RT 83 711+25 - 711+78

PROJECT NO: 1196-00-62 HWY: USH 53 COUNTY: WASHBURN MISCELLANEOUS QUANTITIES SHEET: **E**

165

83

164

165

411

83

164

165

3,895

65

325

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712+31 - 713+37

727+09 - 727+62

731+32 - 732+37

732+90 - 733+96

735+01 - 737+65

743+99 - 744+52

745+05 - 746+10

746+63 - 747+69

RT

RT

RT

RT

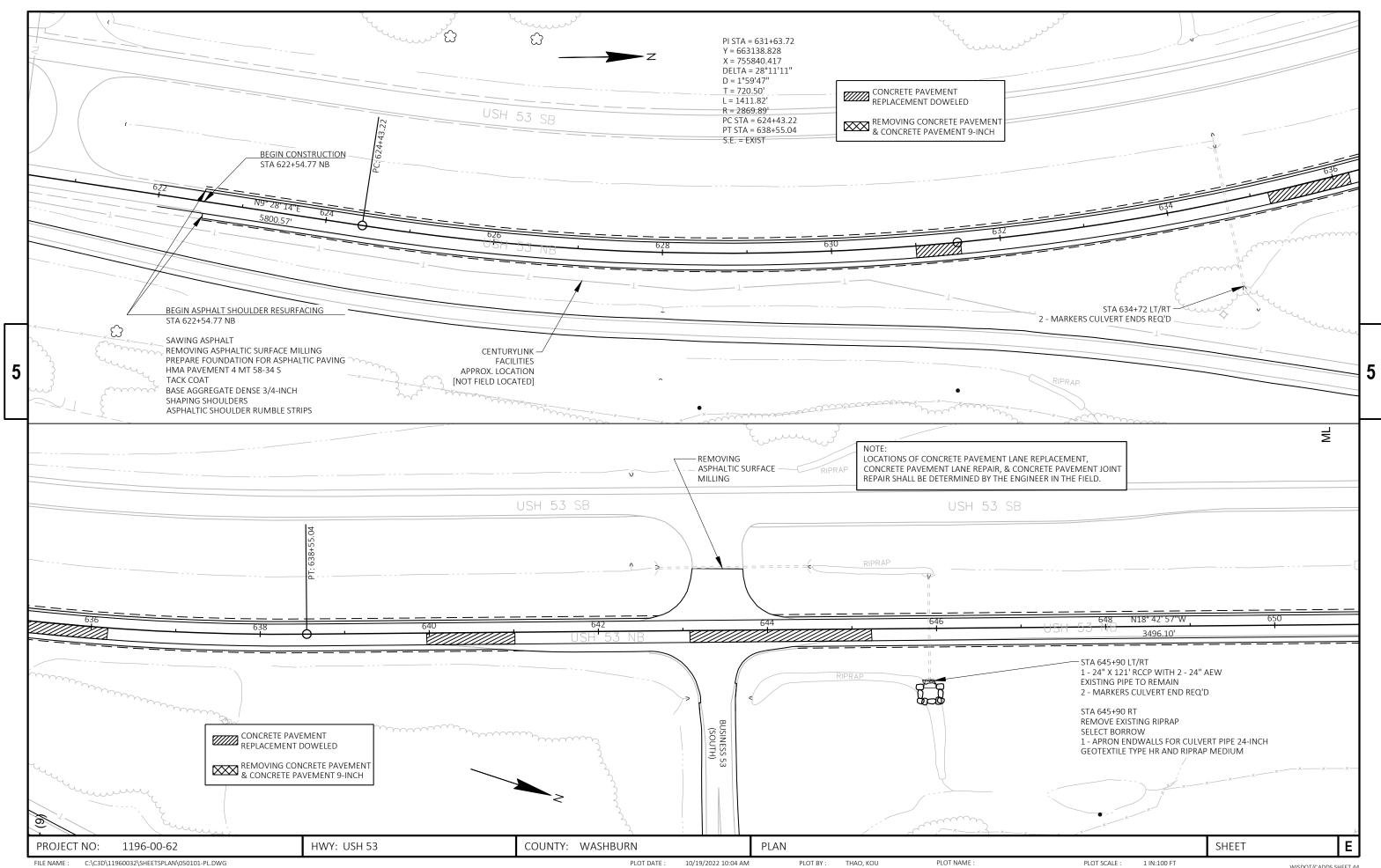
RT

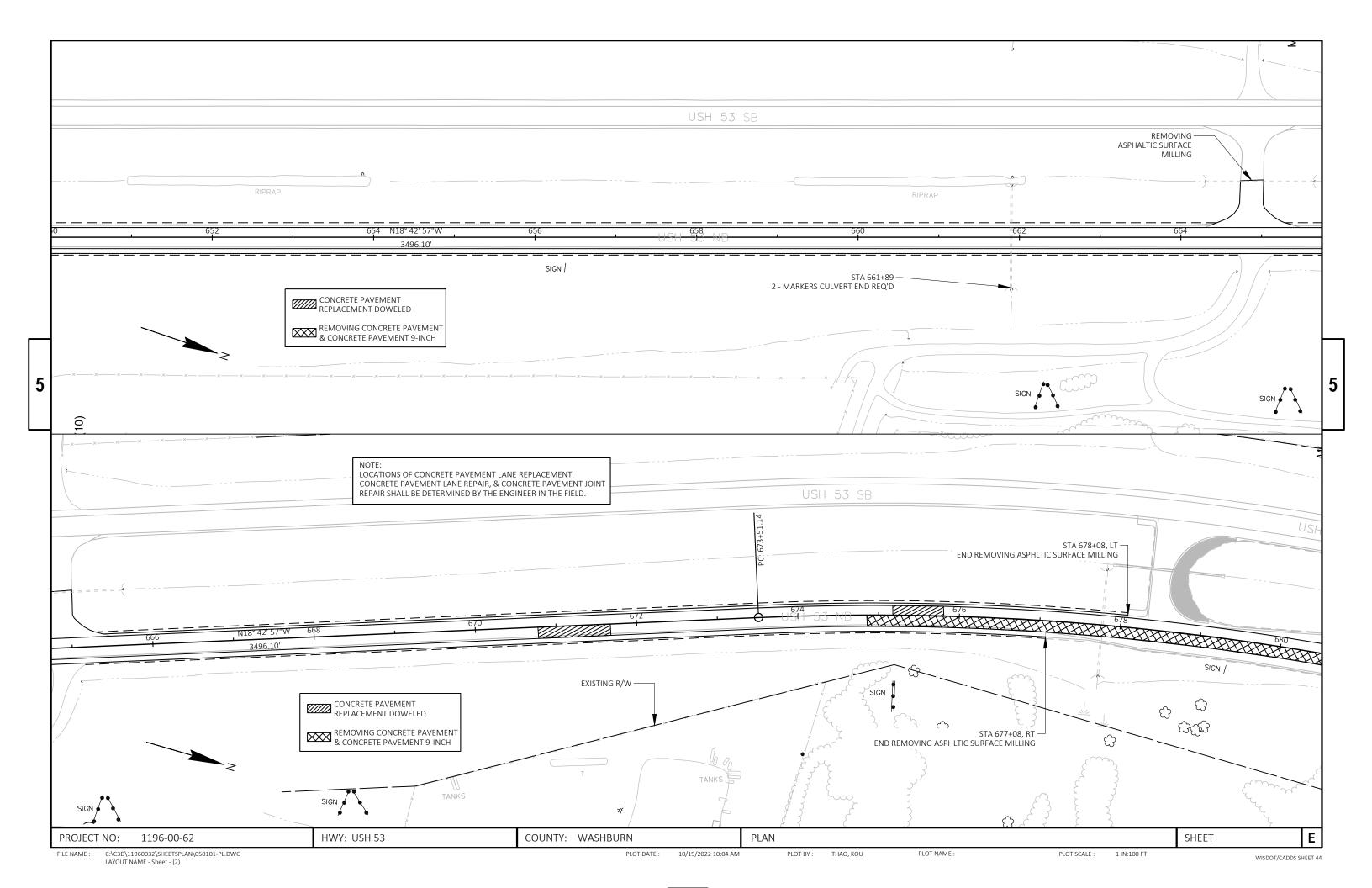
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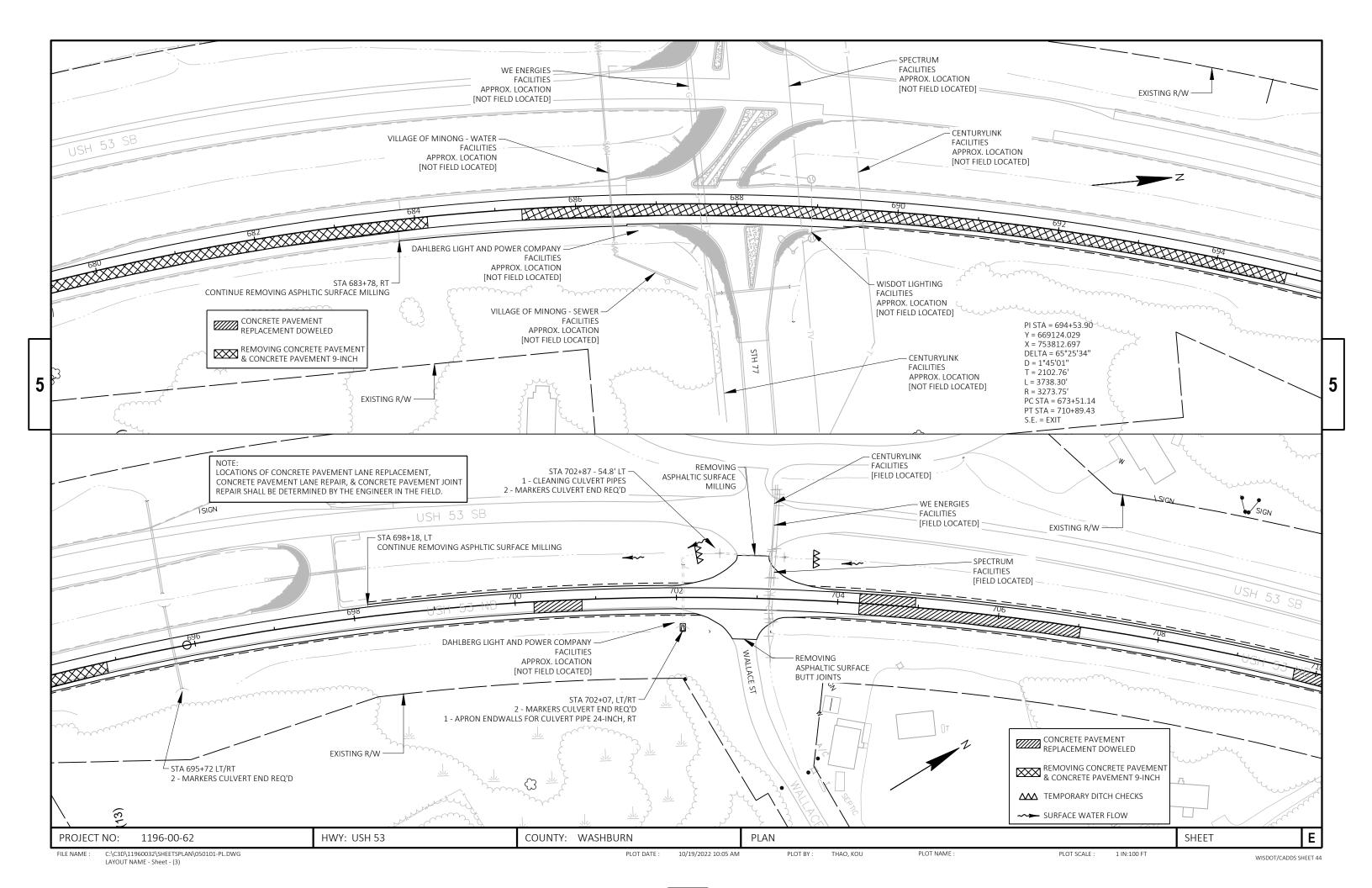
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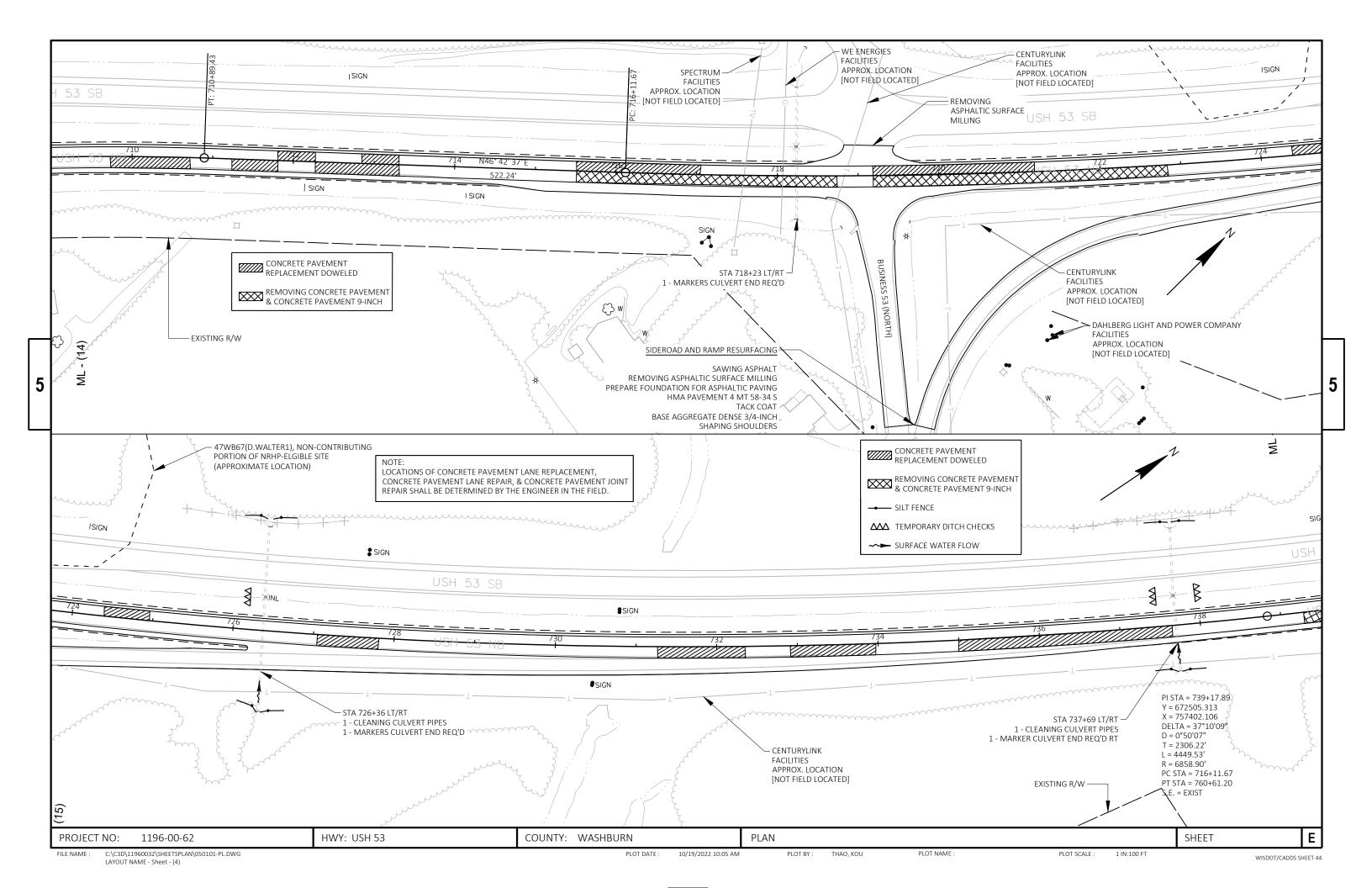
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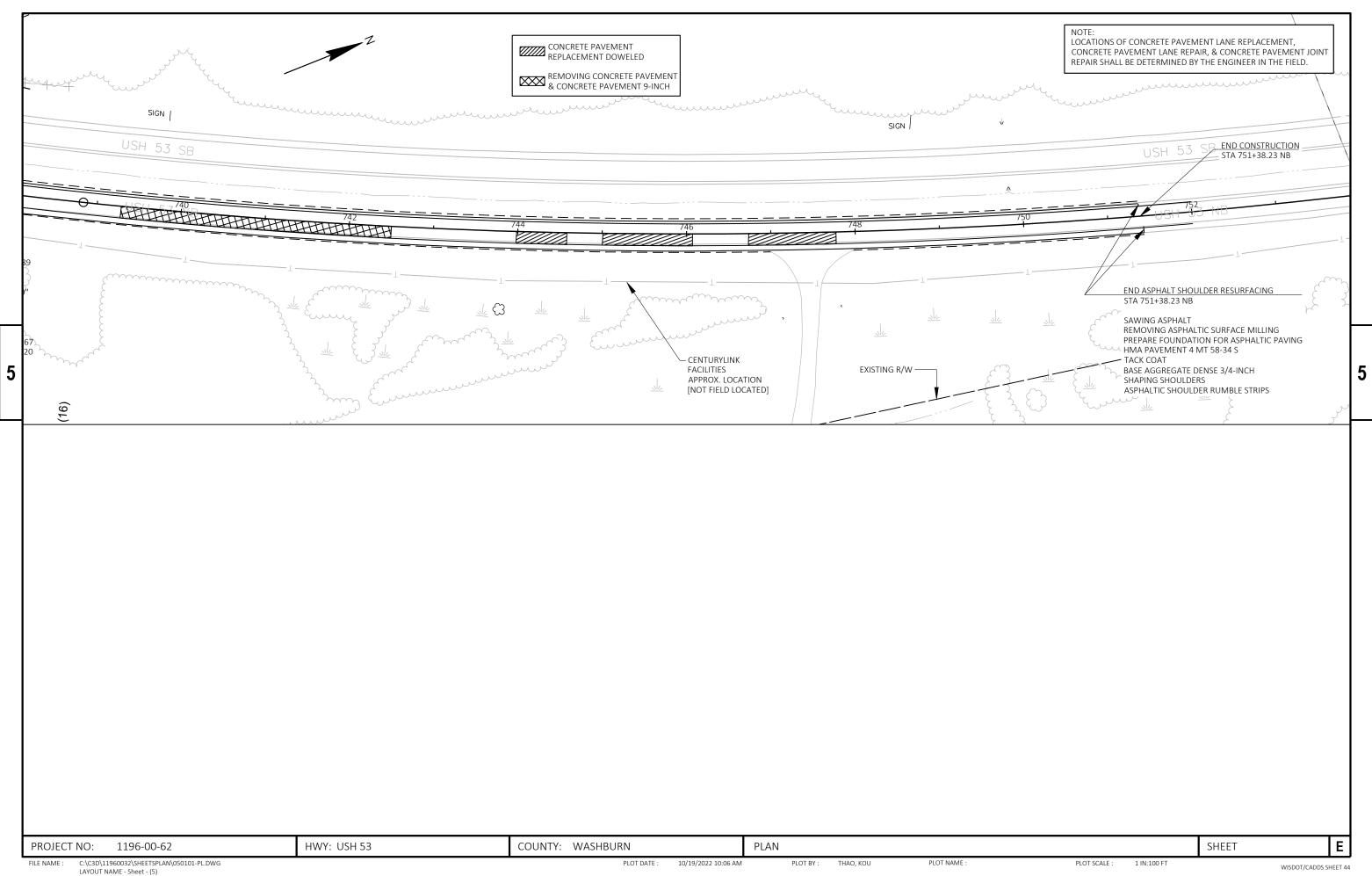
TOTAL 0010

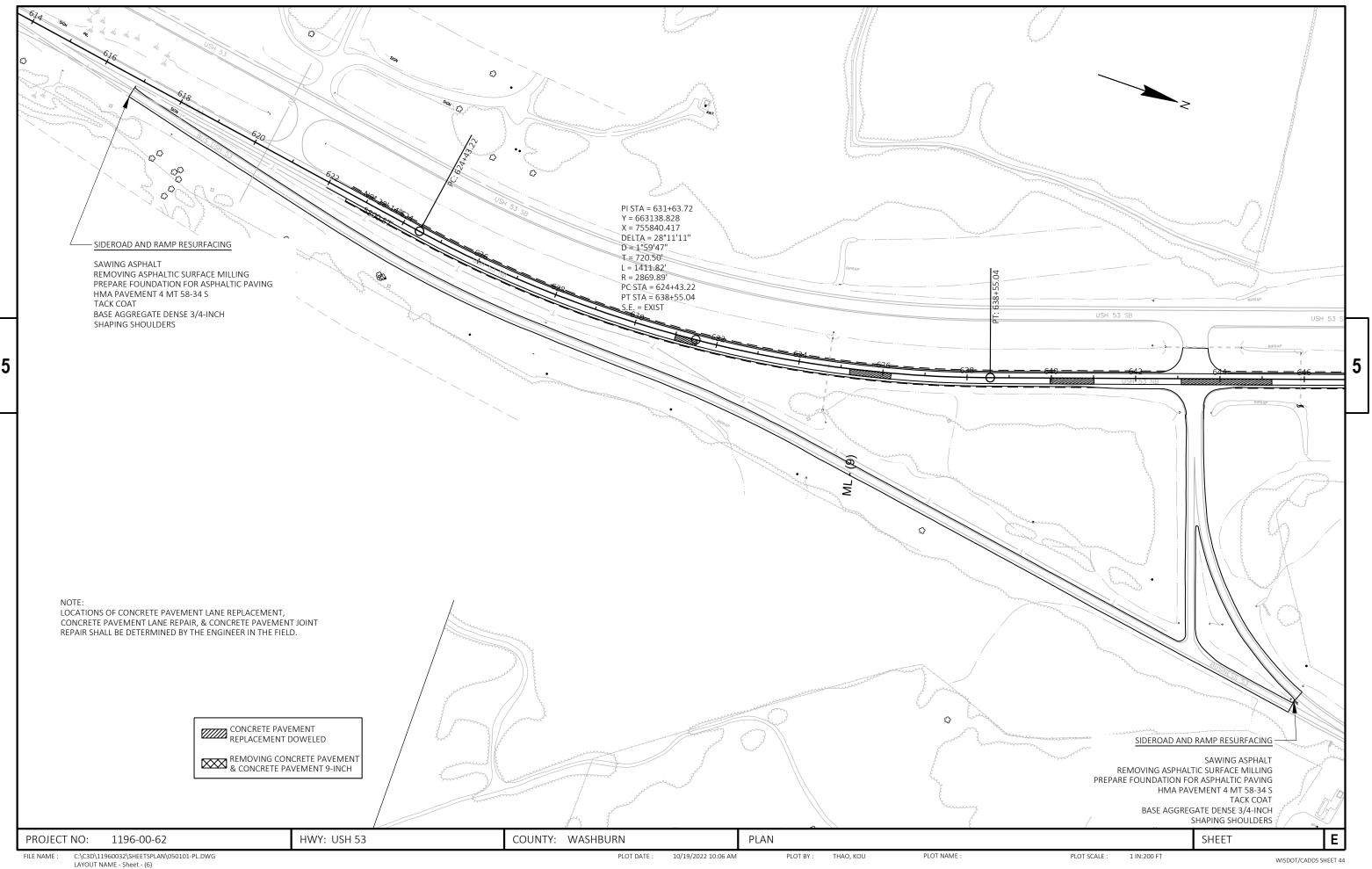












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Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13A08-01	ASPHALTIC RUMBLE STRIPS AT INTERSECTION
13001-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C09-17A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-17B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-17C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C16-02A	DETAIL FOR RIGHT TURN LANE/TEE INTERSECTION BYPASS LANE ON A CONRETE ROADWAY
13C16-02B	DETAIL FOR RIGHT TURN LANE/TEE INTERSECTION BYPASS LANE ON A CONRETE ROADWAY
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C18-07F	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
13C18-07G	CONCRETE PAVEMENT JOINTING ACCELERATION/DECELERATION LANE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRI CADES AND SIGNS FOR VARIOUS CLOSURES
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-22A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C08-22B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-22C	PAVEMENT MARKING (TURN LANES)
15C08-22D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C31-04A	PAVEMENT MARKING EXIT RAMP AND PARALLEL EXIT RAMP
15C31-04C	PAVEMENT MARKING ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-05A	PAVEMENT MARKING (INTERSECTIONS)
15D12-10B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D15-06A	TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-06B	TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-06C	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-06D	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-06E	TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE
15D16-05	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D40-04D	TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER

6

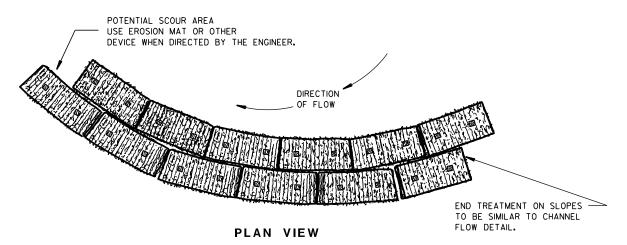
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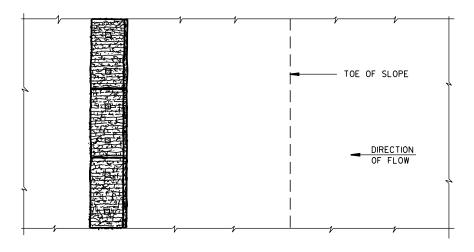
GENERAL NOTES

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.

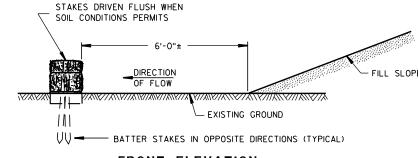
1 TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

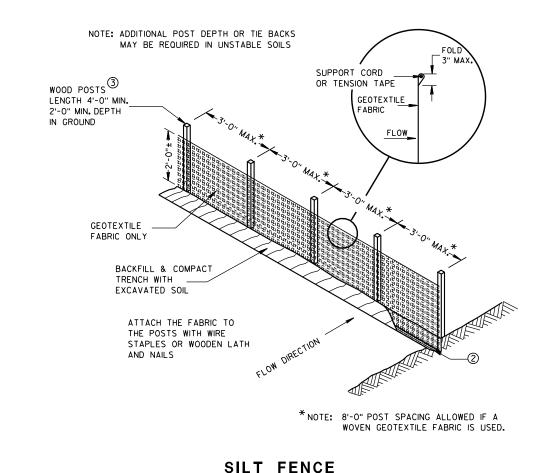
APPROVED

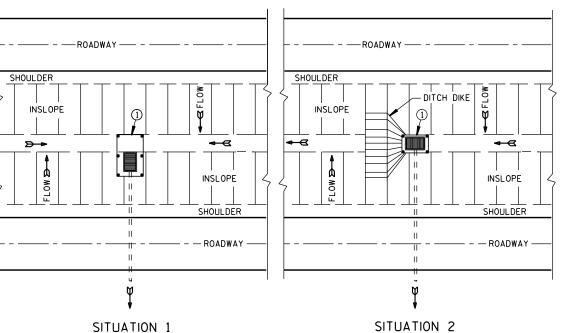
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

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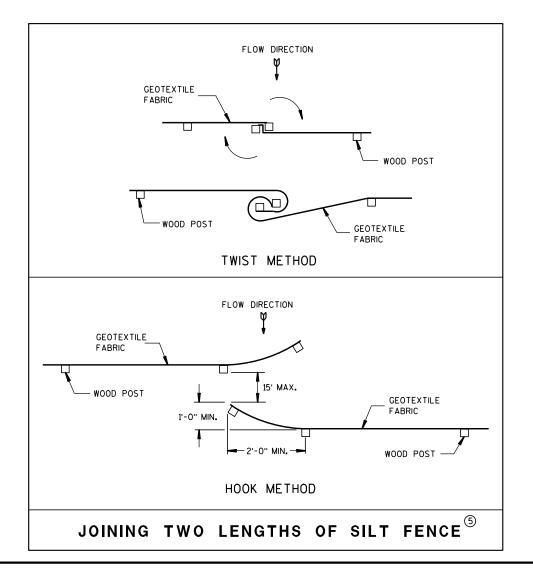
D.D. 8 E 8-3

TYPICAL APPLICATION OF SILT FENCE





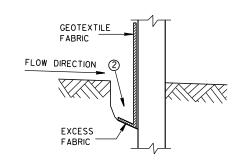
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



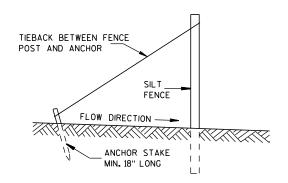
GENERAL NOTES

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



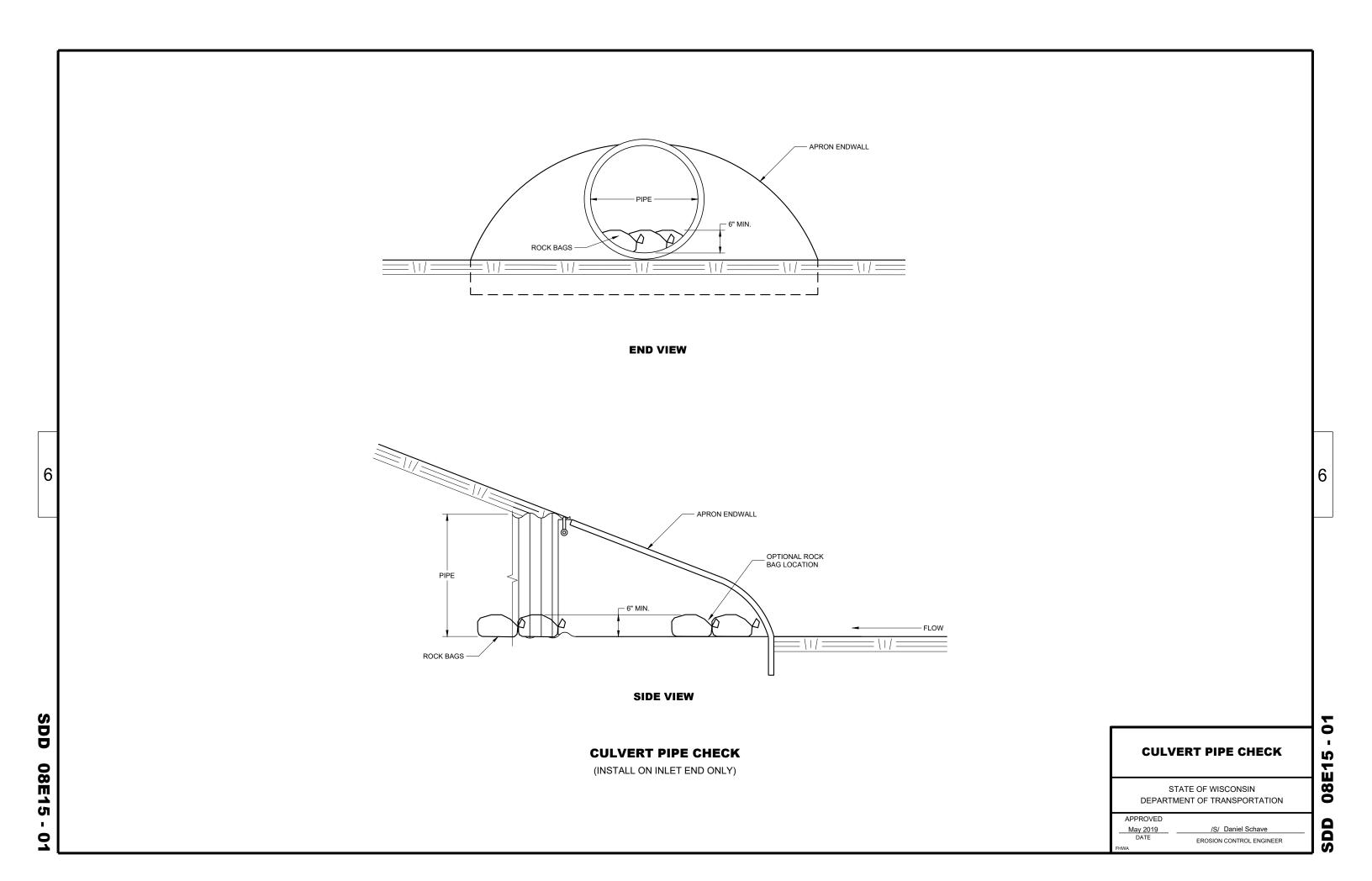
SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

SILT FENCE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED 4-29-05 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

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METAL APRON ENDWALLS											
PIPE	MIN. 1	THICK.	DIMENSIONS (Inches)							APPROX.	
DIA. (IN.)	(Incl	nes) ALUM.	A (±1")	B (MAX.)	H (±]")	L (±1 ½")	L ₁	L 2	₩ (±2")	SLOPE	BODY
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	$2\frac{1}{2}$ to 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	21/2+0 1	1Pc.
21	.064	.060	9	12	6	36	18	295/8	42	21/2+0 1	1Pc.
24	.064	.075	10	13	6	41	18	371/4	48	21/2+0 1	1Pc.
30	.079	.075	12	16	8	51	18	521/4	60	21/2+0 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	21/2+0 1	2 Pc
42	.109	.105	16	22	11	69	24	75%	84	21/2+o 1	2 Pc
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ †o 1	3 Pc
54	.109	.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	1½+o 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	1½+o 1	3 Pc.
96	.109×	.105×	18	35	12	87	_	-	150	11/2+0 1	3 Pc.

* EXCEPT CENTER PANEL

SEE GENERAL NOTES

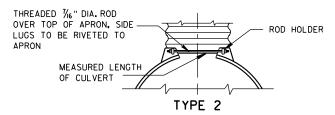
	REINFORCED CONCRETE APRON ENDWALLS									
PIPE		APPROX.								
DIA.	Т	A	В	С	D	E	G	SLOPE		
12	2	4	24	48 1/8	721/8	24	2	3 to 1		
15	21/4	6	27	46	73	30	21/4	3 to 1		
18	21/2	9	27	46	73	36	21/2	3 to 1		
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1		
24	3	91/2	431/2	30	731/2	48	3	3 to 1		
27	31/4	101/2	$49^{1}/_{2}$	24	731/2	54	31/4	3 to 1		
30	$3\frac{1}{2}$	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 ¹ / ₄ -35	* 98 ¹ / ₄ - 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		

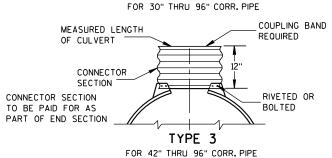
END SECTION CONNECTOR STRAP THREADED %6" DIA. ROD CONNECTOR AROUND CULVERT & THROUGH TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT

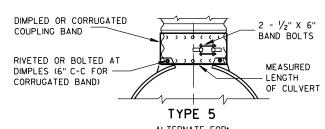
ALTERNATE FOR TYPE 1 CONNECTION

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.

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

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

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

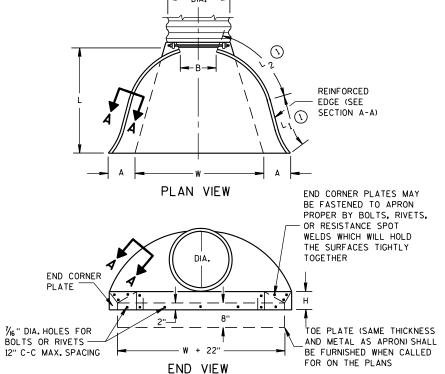
CONNECTION DETAILS

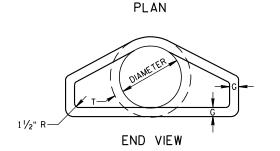
1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT

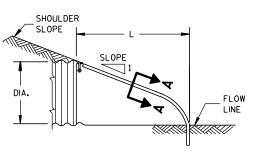
OPTIONAL

DESIGN

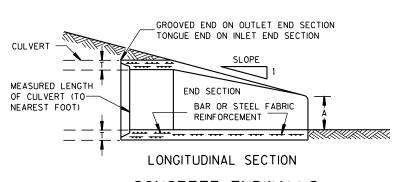
*MINIMUM **MAXIMUM



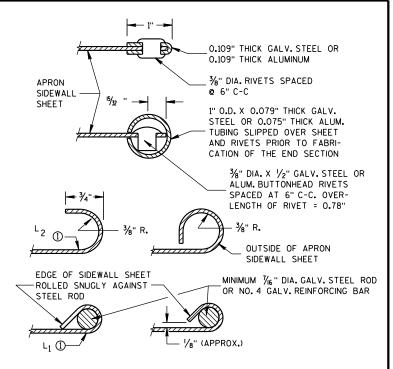




SIDE ELEVATION METAL ENDWALLS







SECTION A-A

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.

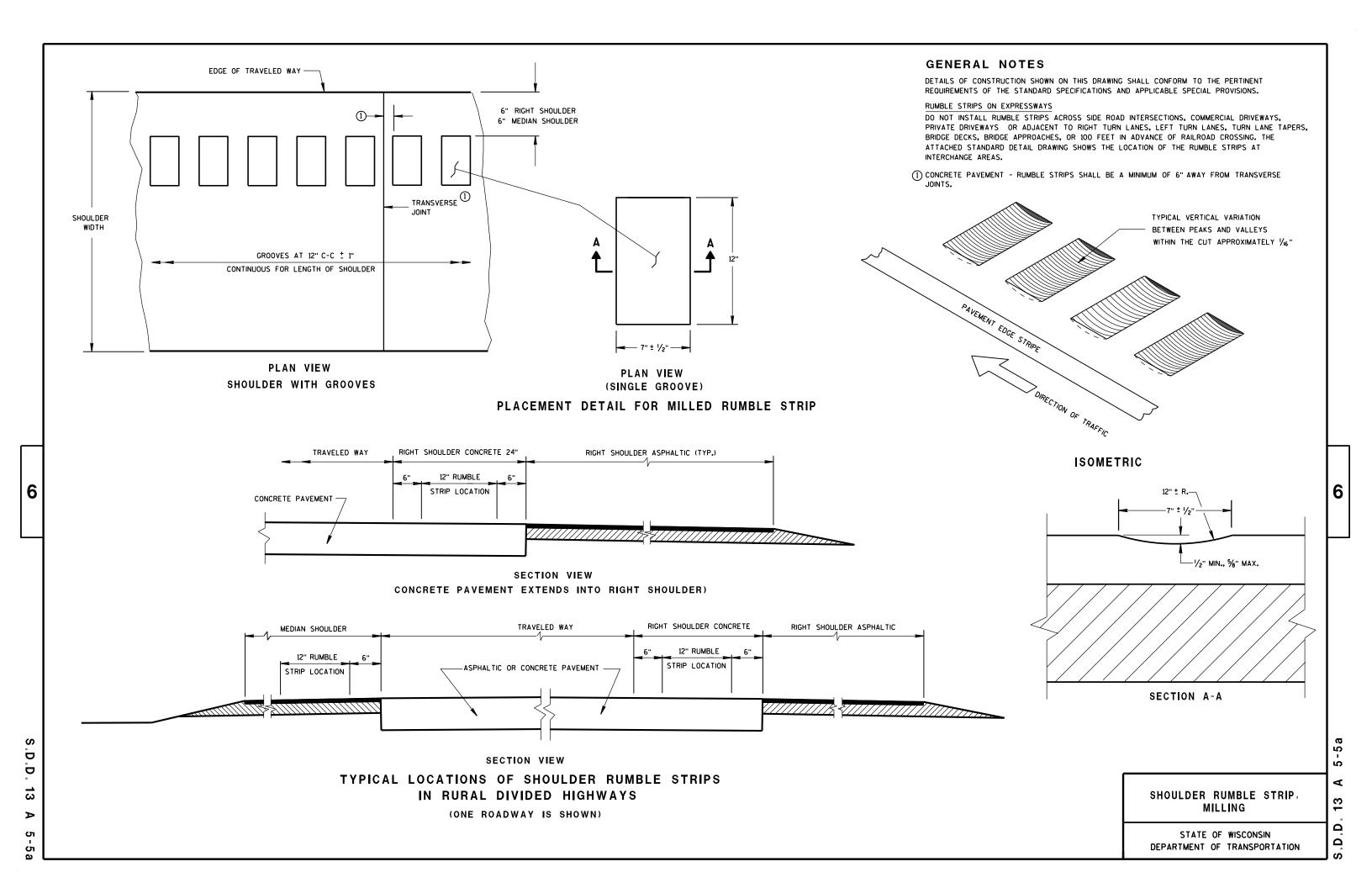
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

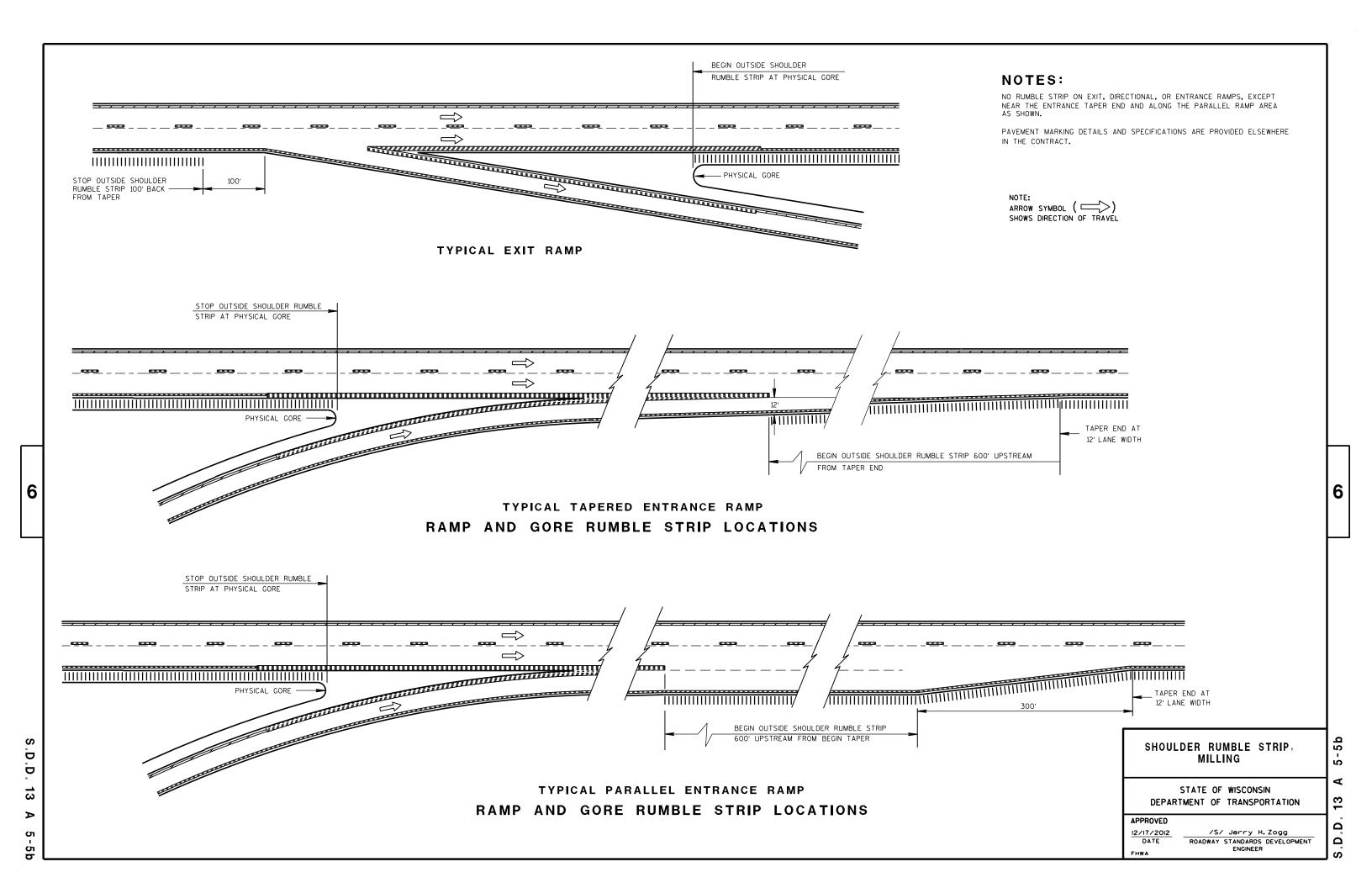
(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

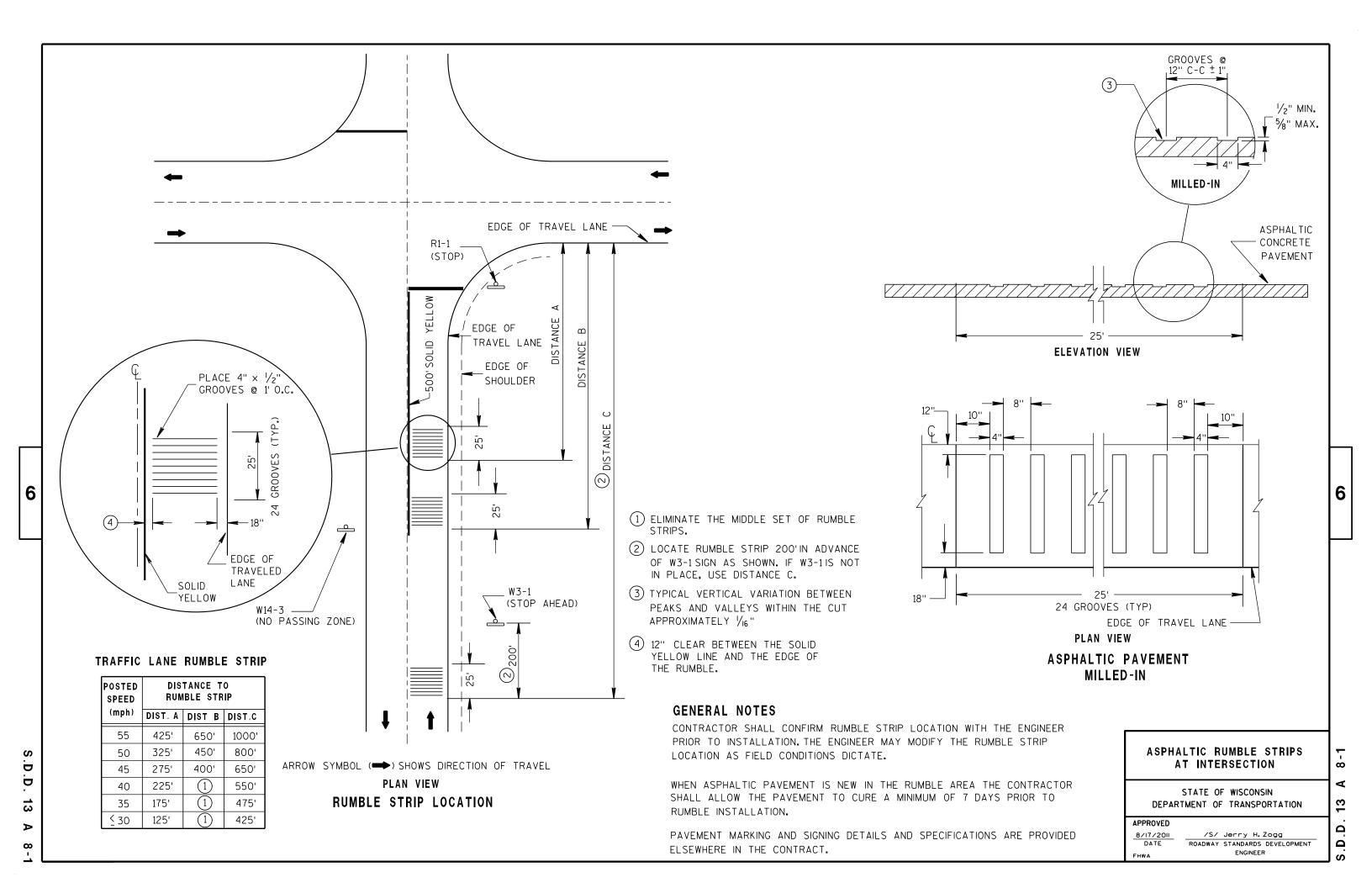


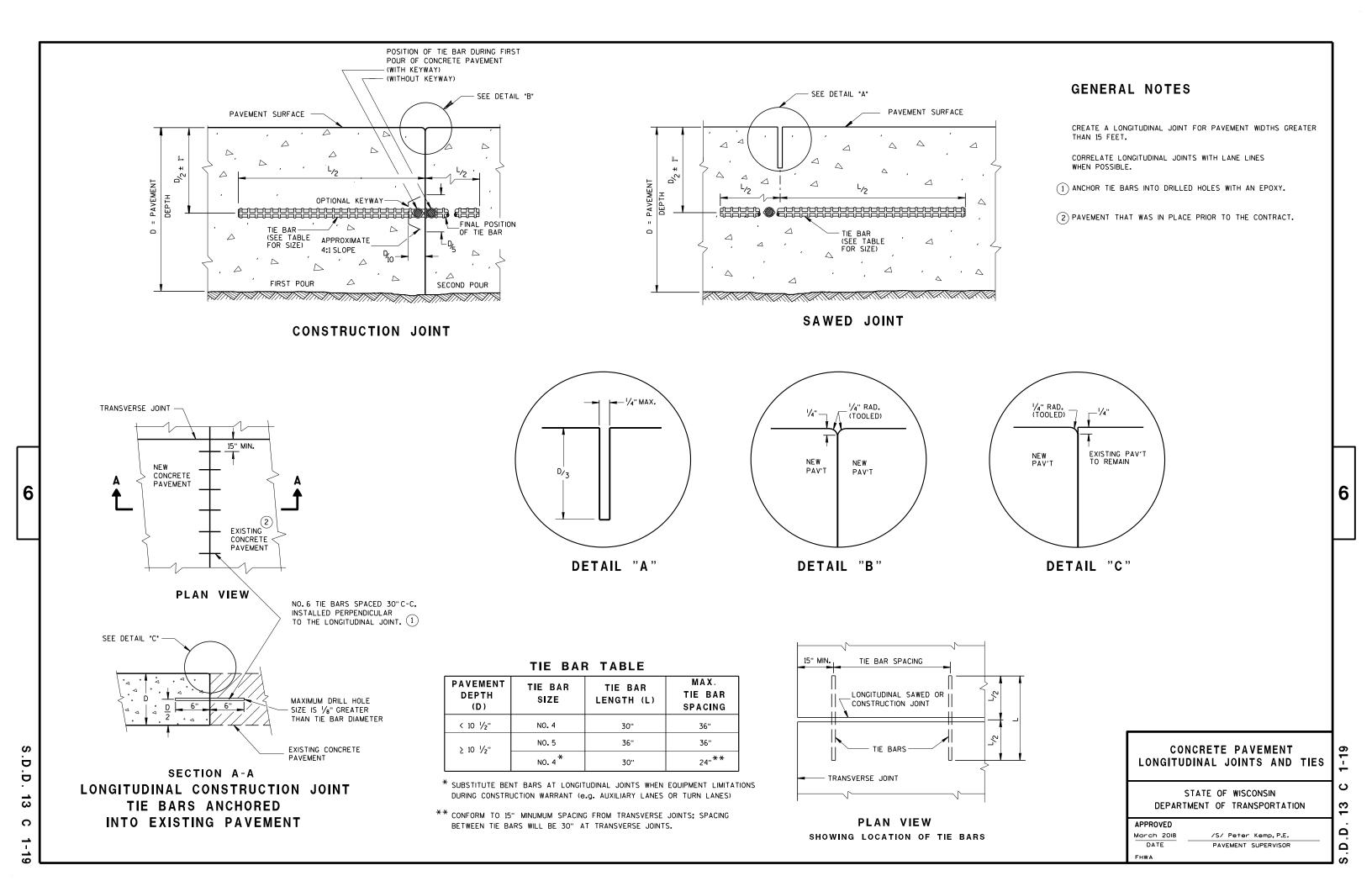
DEPARTMENT OF TRANSPORTATION

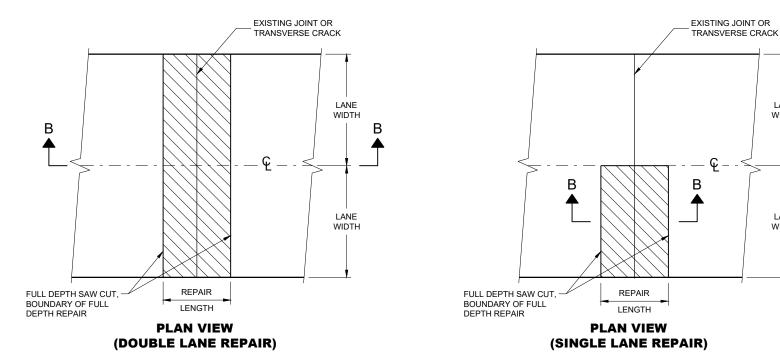
11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER



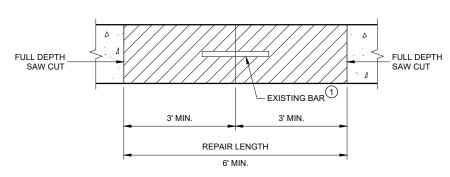








FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION B - B CONCRETE REMOVAL

GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE

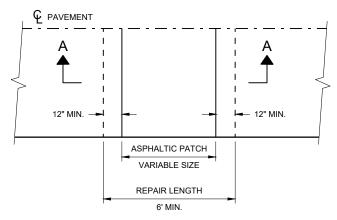
PROVIDE A 6 FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREA TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NON-DOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

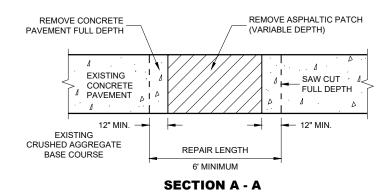
1 DOWEL BARS MAY NOT BE PRESENT.

LANE WIDTH

LANE WIDTH



PLAN VIEW



HMA PATCH REMOVAL

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

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SD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	DRILLED DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	NONE	12'
7", 7 ½"	1"	1"	14'
8" & ABOVE	1 1/4"	1 1/4"	15'

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

8

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 D_2

18" DOWEL BAR

ANCHORED INTO

(SEE SIZE TABLE)

EXISTING PAVEMENT

MAX.

TIE BAR

SPACING

36"

24"******

PAVEMENT

DEPTH "D"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SDD 13C09

6

PLAN VIEW MULTILANE CONCRETE PAVEMENT REPAIR

C2 -

L1 OR

Ш∢

L3

NEW CONCRETE

> **PLAN VIEW MULTILANE CONCRETE PAVEMENT REPLACEMENT**

BARS -

L1 OR

L3

Ш

LANE

WIDTH

12" C - C

FOR

SPACING)

15" MIN

L1 OR

∕– L1

SDD 13C09

MAXIMUM DRILLED HOLE SIZE IS 1/8" GREATER THAN TIE BAR DIAMETER EXISTING CONCRETE PAVEMENT **SECTION G - G TIE BARS ANCHORED INTO EXISTING PAVEMENT**

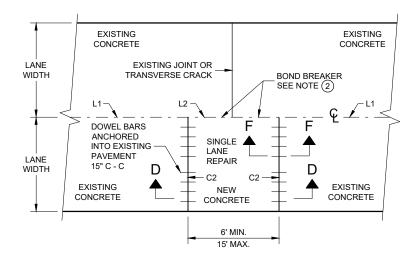
SEE DETAIL "L2" -

-PAVEMENT SURFACE

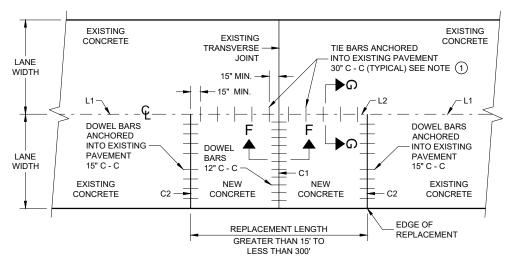
NO. 6 TIE BARS, SPACED 30" C - C, └ INSTALLED PERPENDICULAR TO THE LONGITUDINAL JOINT ③

GENERAL NOTES

- 1 WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
- ② USE AN ENGINEER APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.
- 3 ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW SINGLE LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW SINGLE LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE REPAIR AND REPLACEMENT

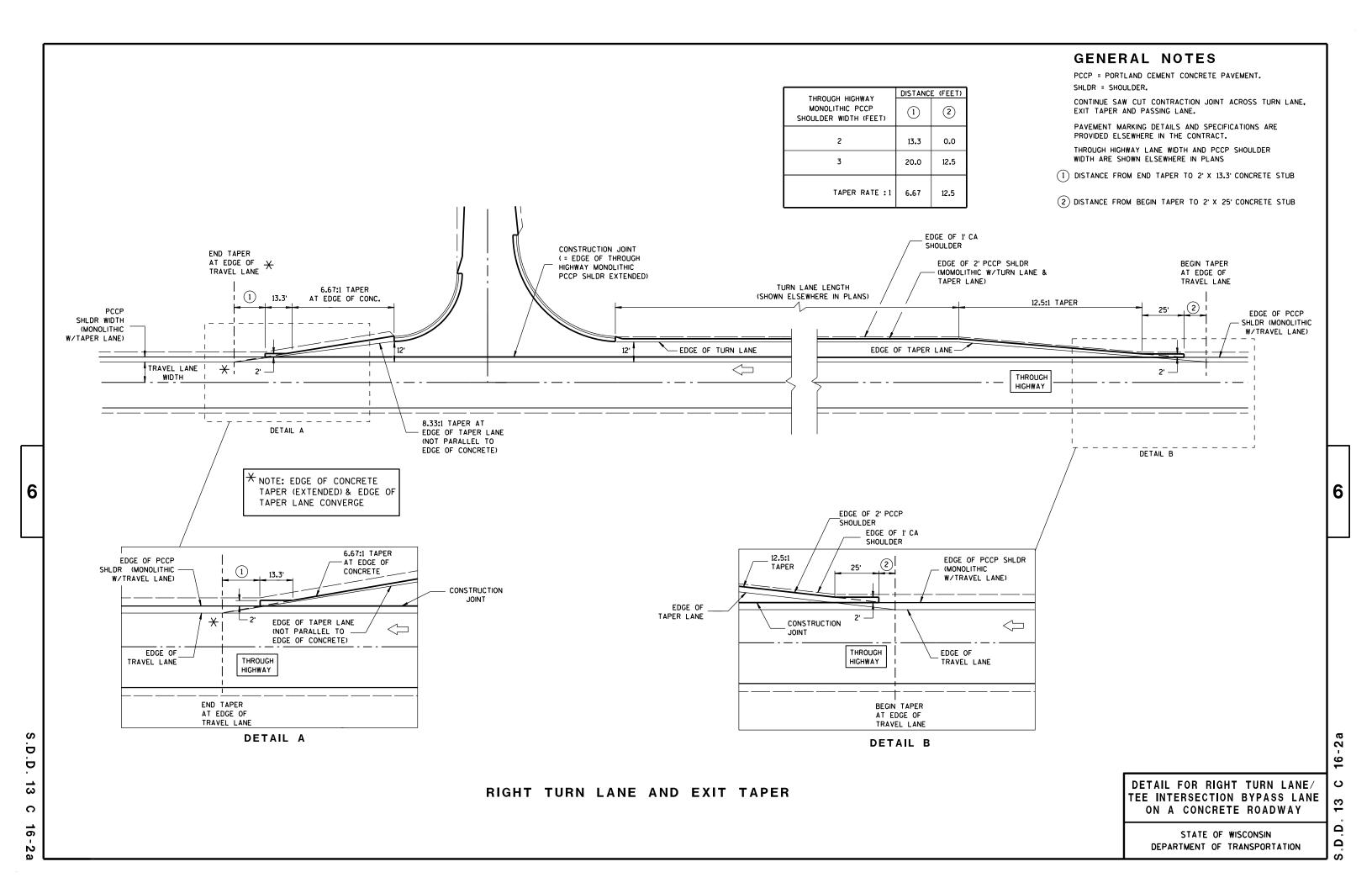
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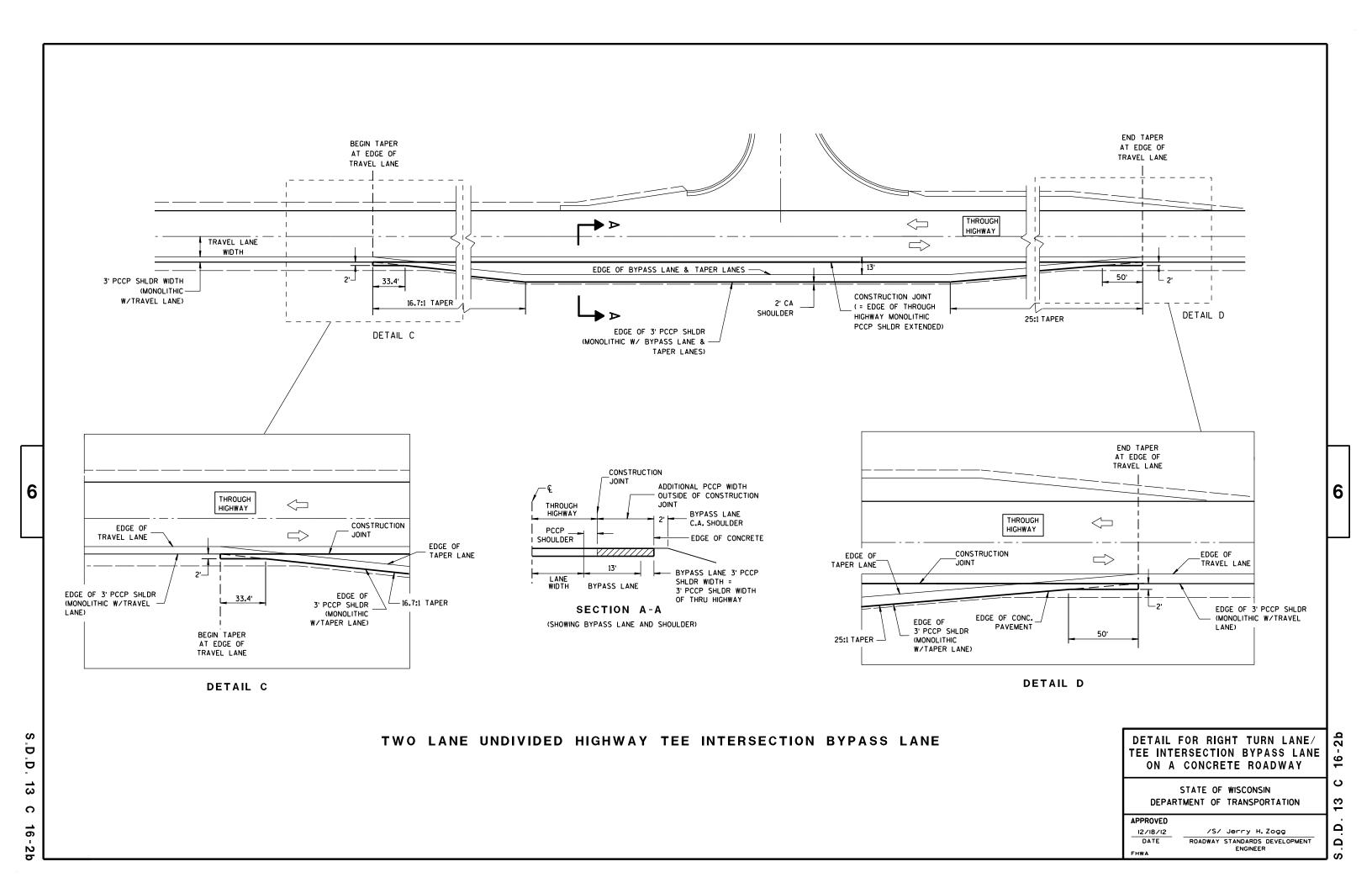
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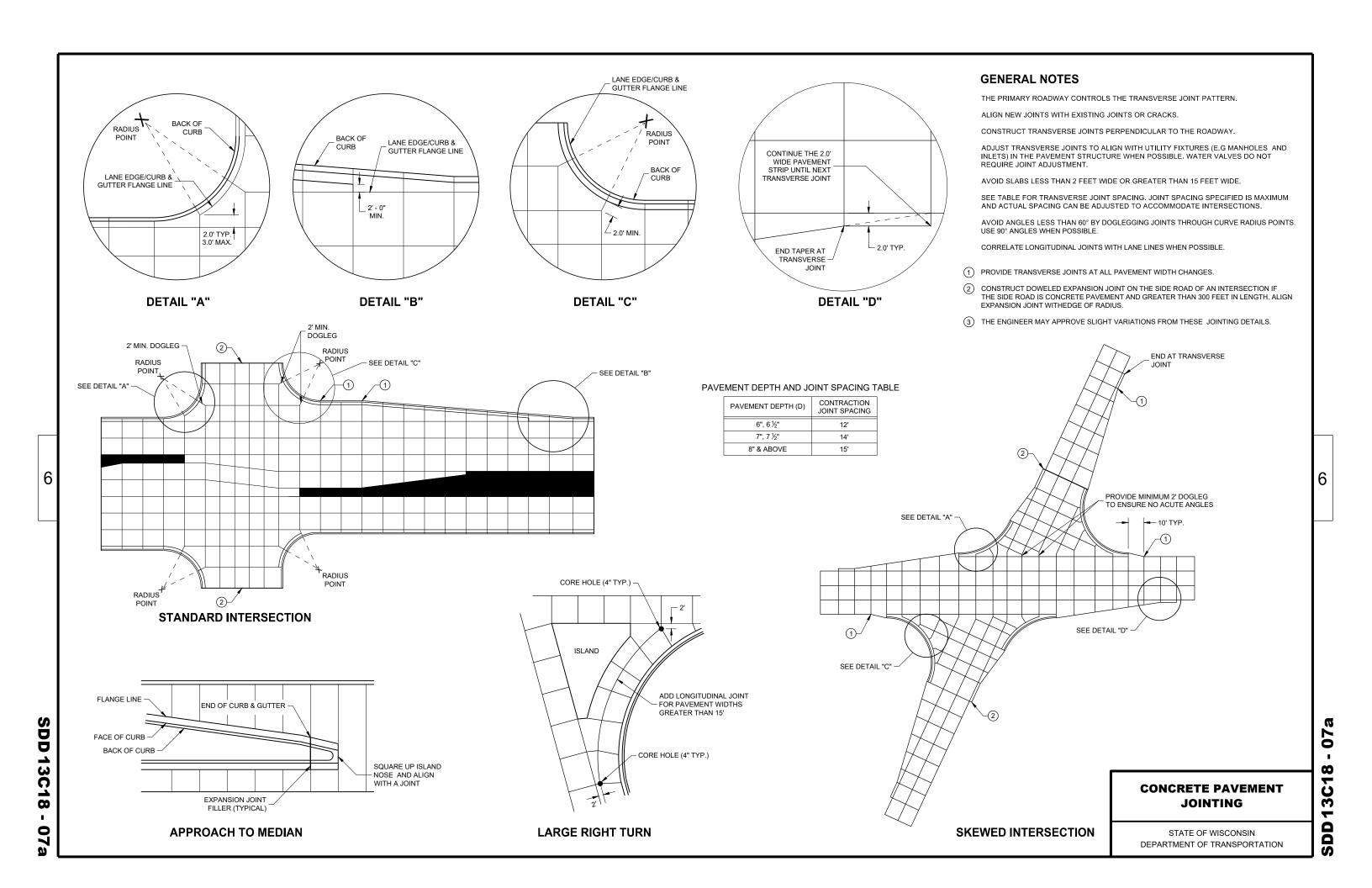
SDD

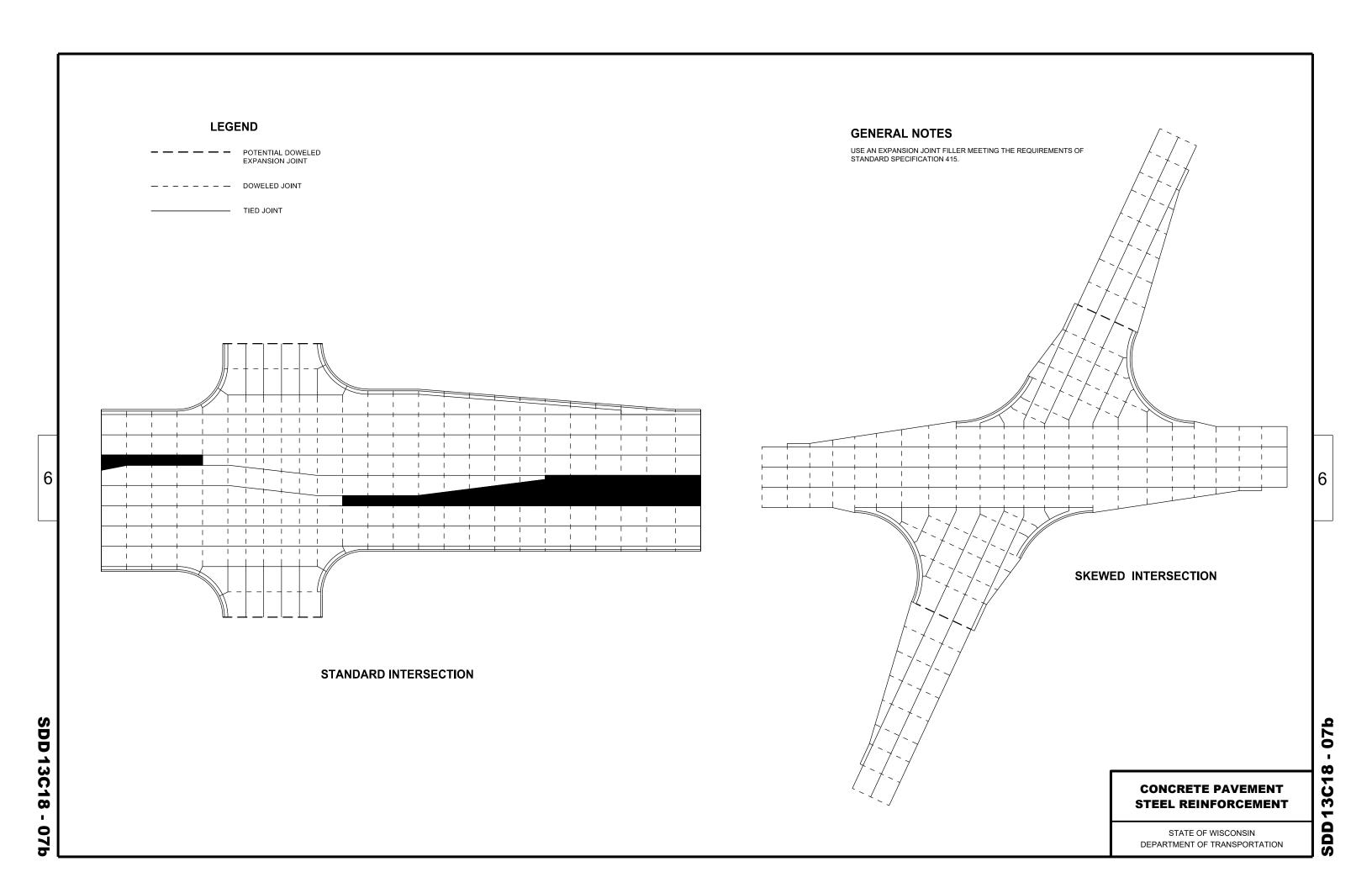
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2022 DATE /S/ Peter Kemp P.E. PAVEMENT SUPERVISOR









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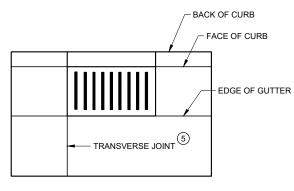
STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

NO BOXOUT

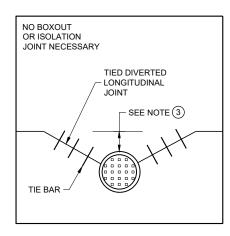
OR ISOLATION JOINT NECESSARY

MANHOLE WITH TRANSVERSE JOINT

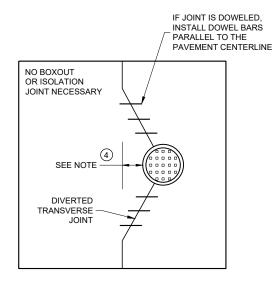


INLET WITH
TRANSVERSE JOINT

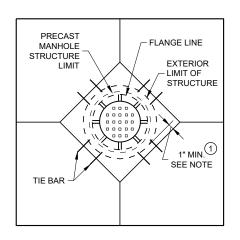
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MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

GENERAL NOTES

- ① USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
- 2 ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
- (3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL, PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
- (4) IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
- (5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

6

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

November 2018

DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISOR

SDD 13C18 - 07d

DD 13C18

ALL REINFORCEMENT BARS SHALL BE EPOXY COATED CONFORMING TO SUBSECTION 505.2.6 OF THE STANDARD SPECIFICATIONS.

LANE AND SHOULDER WIDTHS MAY VARY FROM SHOWN. SEE CONSTRUCTION PLANS FOR ACTUAL PROPOSED WIDTHS.

- 1 CRITICAL TRANSVERSE JOINT LOCATIONS AT PAVEMENT WIDTH CHANGES. $(\textcircled{1}^*$ IS NOT A CRITICAL TRANSVERSE JOINT WHEN ASPHALTIC GORE IS INSTALLED).
- ② STOP LONGITUDINAL JOINT WITH CORE HOLE (2" TYP.) WHEN IT MEETS THE FIRST TRANSVERSE JOINT LESS THAN 15' WIDE OR STOP LONGITUDINAL JOINT WHEN IT MEETS 2' AWAY FROM THE TIED JOINT OF THE MAINLINE.
- $\ensuremath{\mathfrak{G}}$ DISREGARD THE JOINT DETAILS IN AND AROUND THE GORE WHEN ASPHALTIC GORE IS INSTALLED.

LEGEND

----- DOWELED JOINT

UNDOWELED JOINT

_____ TIED JOINT

— - UNTIED JOINT

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CONCRETE PAVEMENT JOINTING ACCELERATION/ DECELERATION LANE

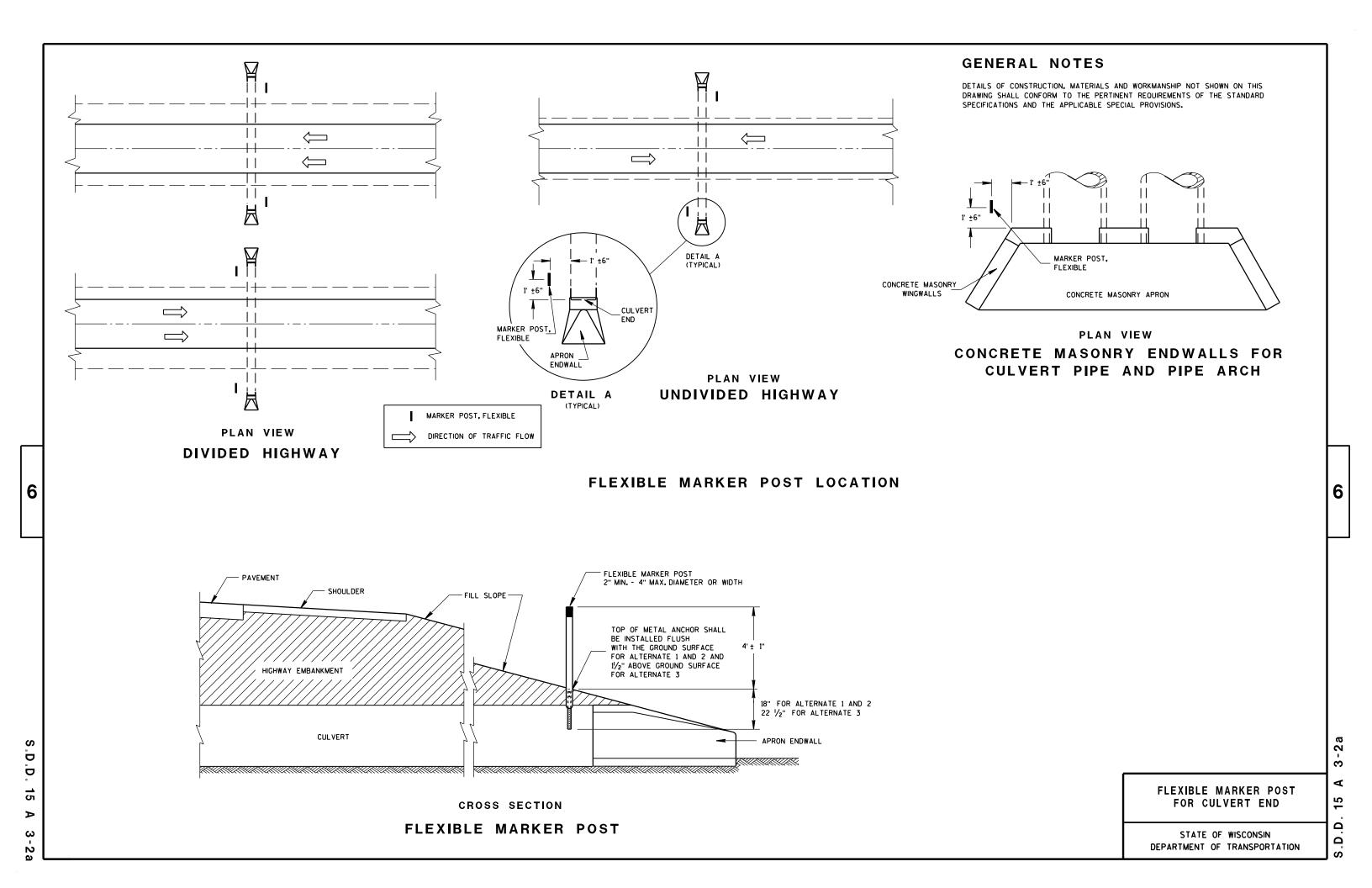
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

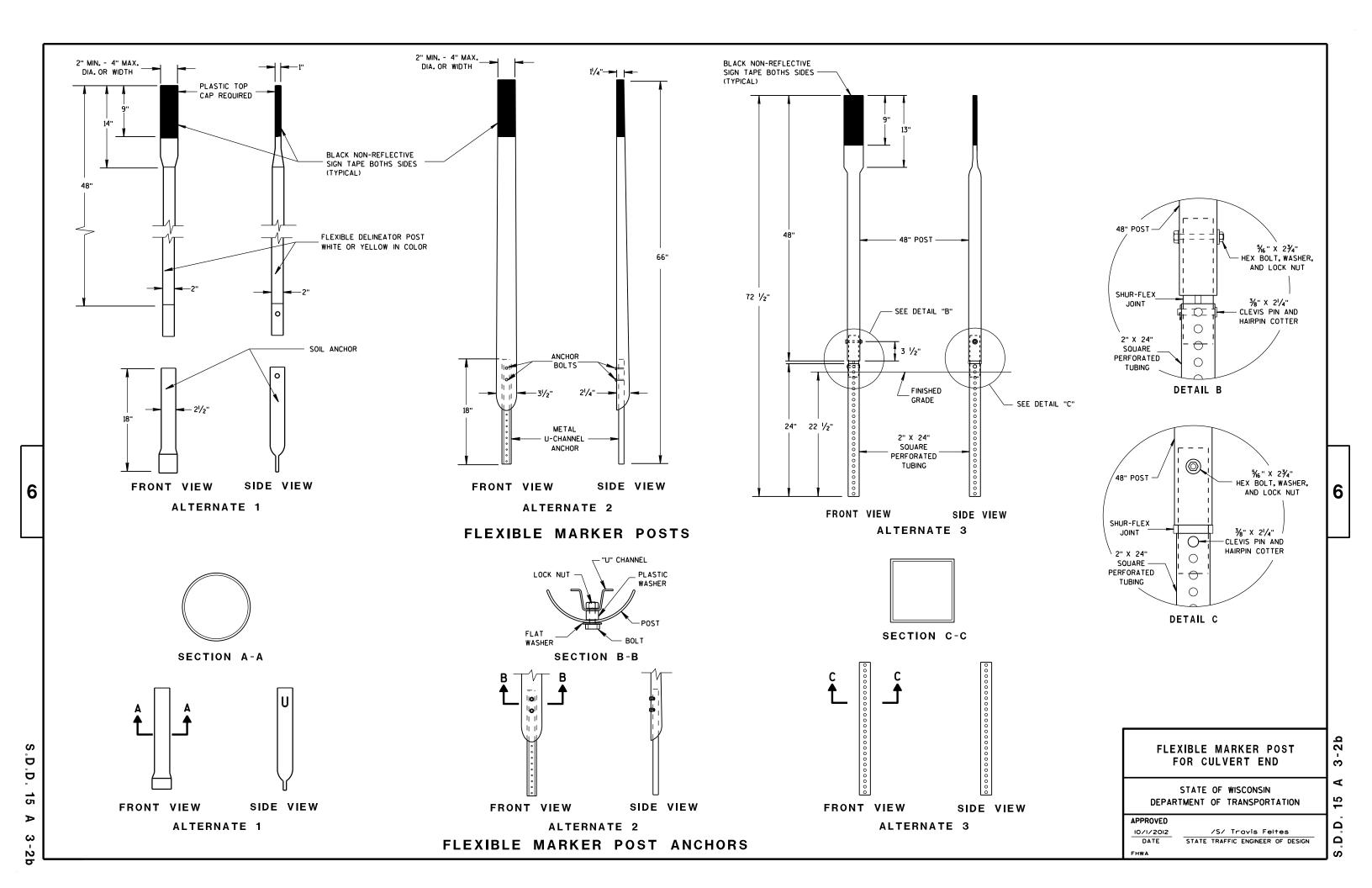
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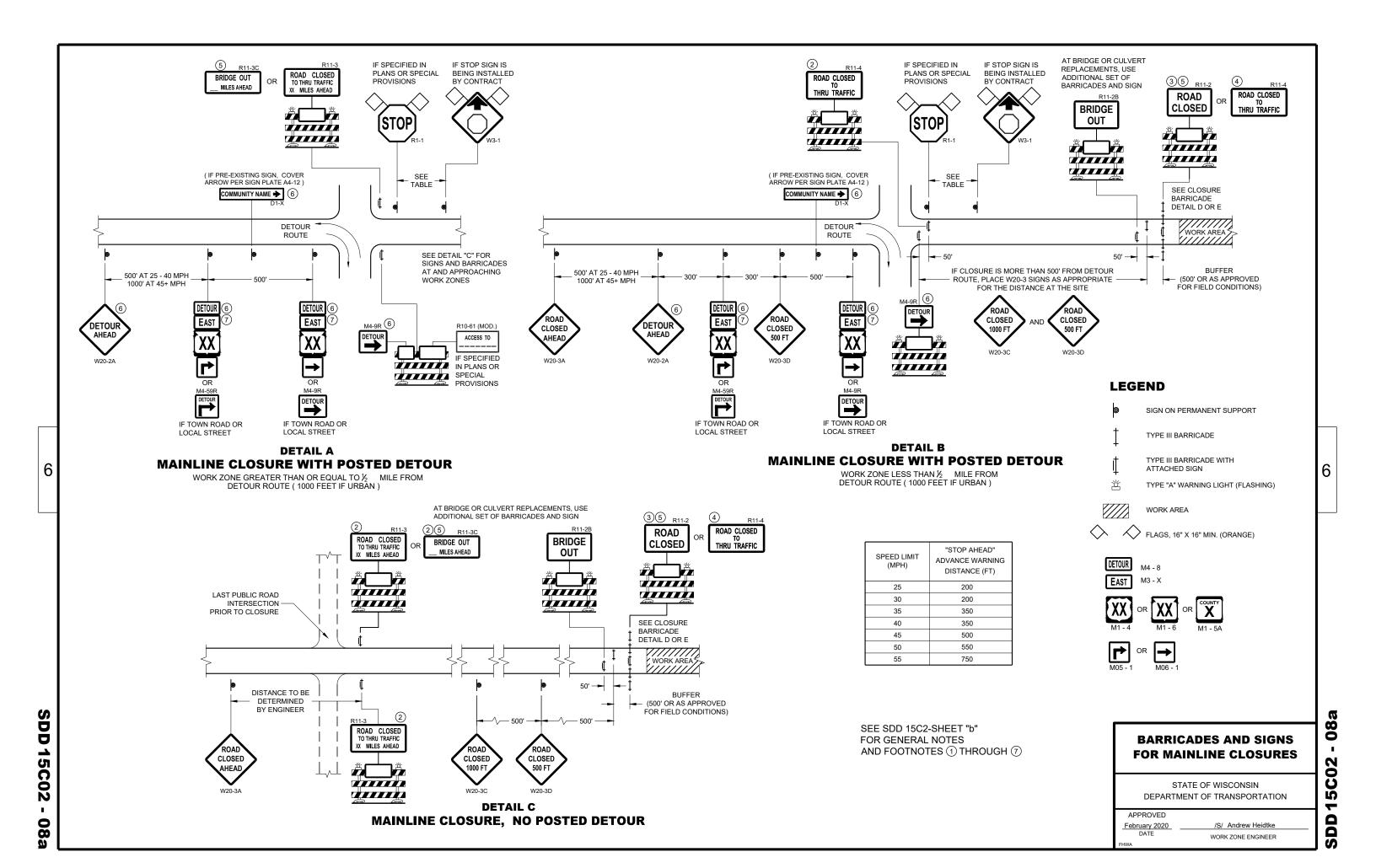
November 2018 ROAD

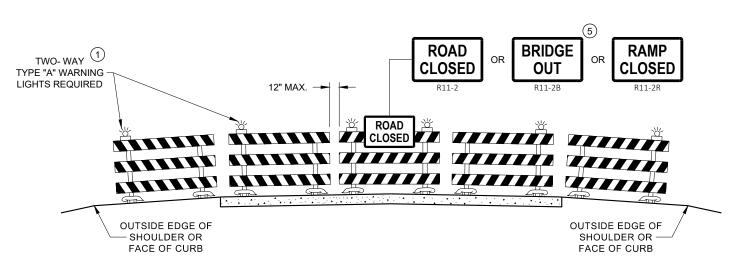
/S/ Peter Kemp P.E.
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

D13C18

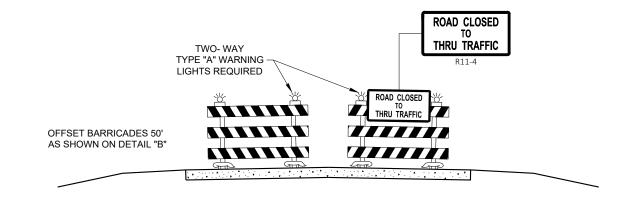








DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

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

M4 - 9 SHALL BE 30" X 24"

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

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

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

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

R1 - 1 SHALL BE 36" X 36"

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

FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

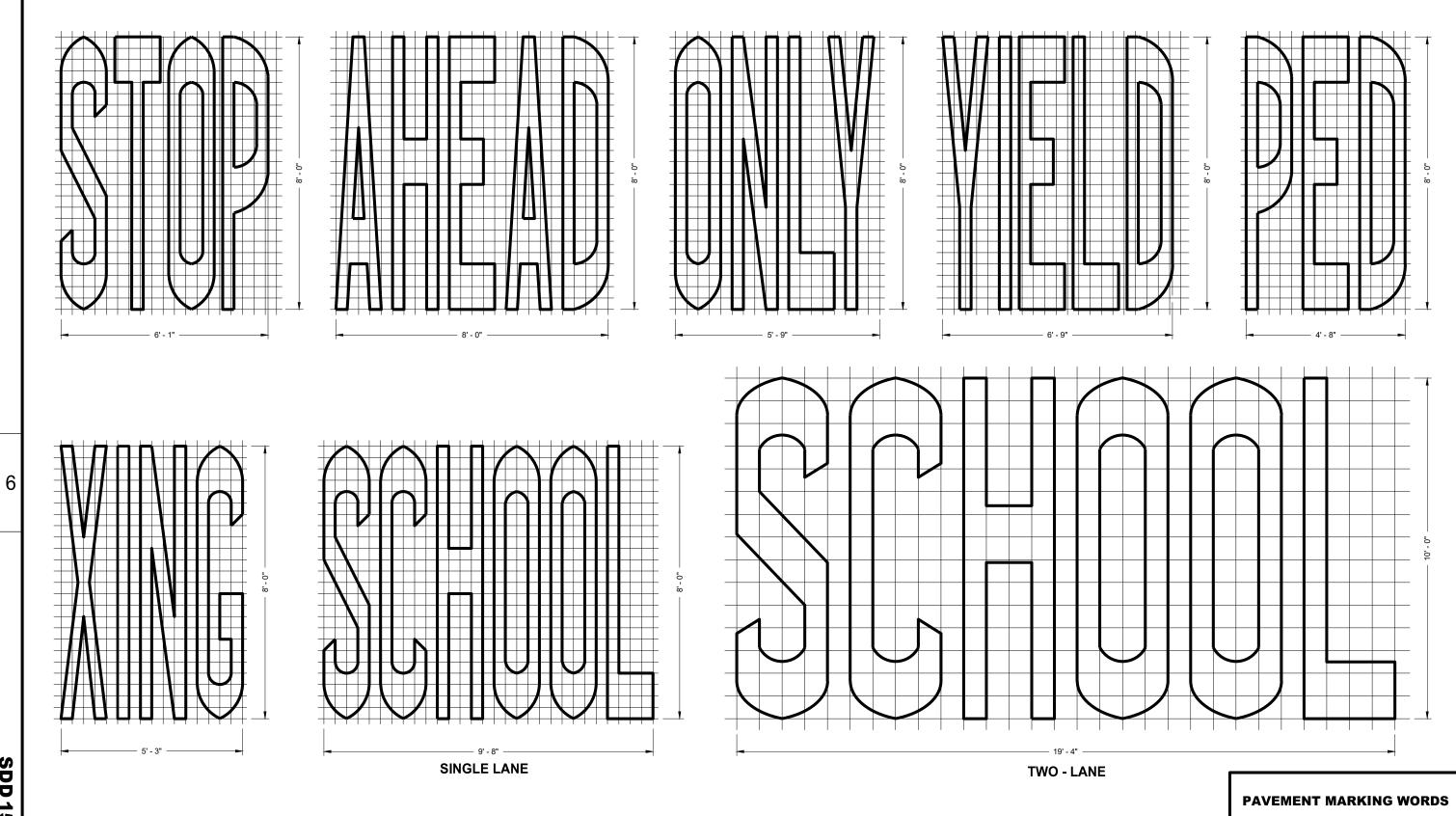
APPROVED

February 2020 ____

/S/ Andrew Heidtke
WORK ZONE ENGINEER

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SDD 15C07 15b

GENERAL NOTES

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

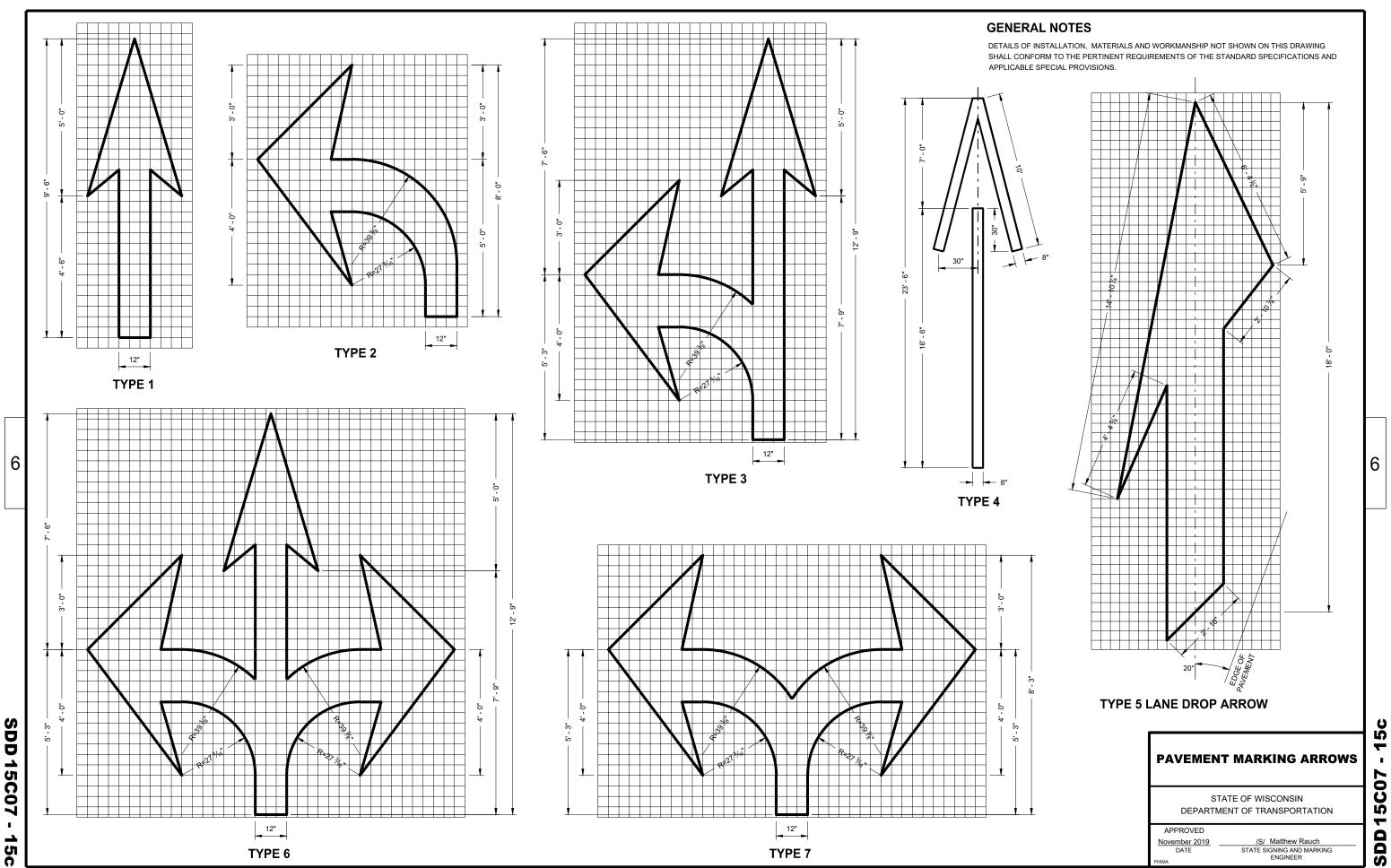
APPROVED

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

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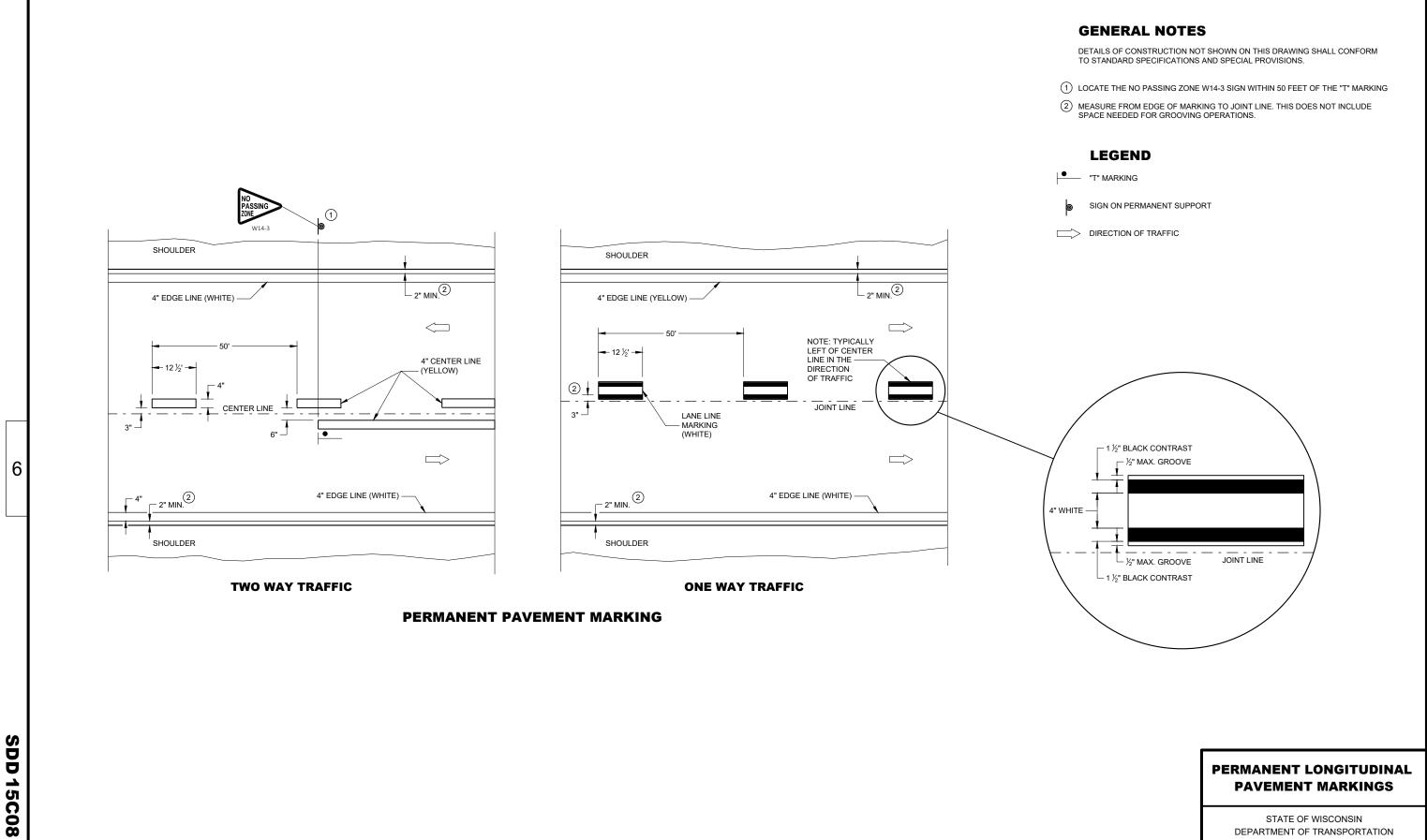
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TYPE 7

TYPE 6

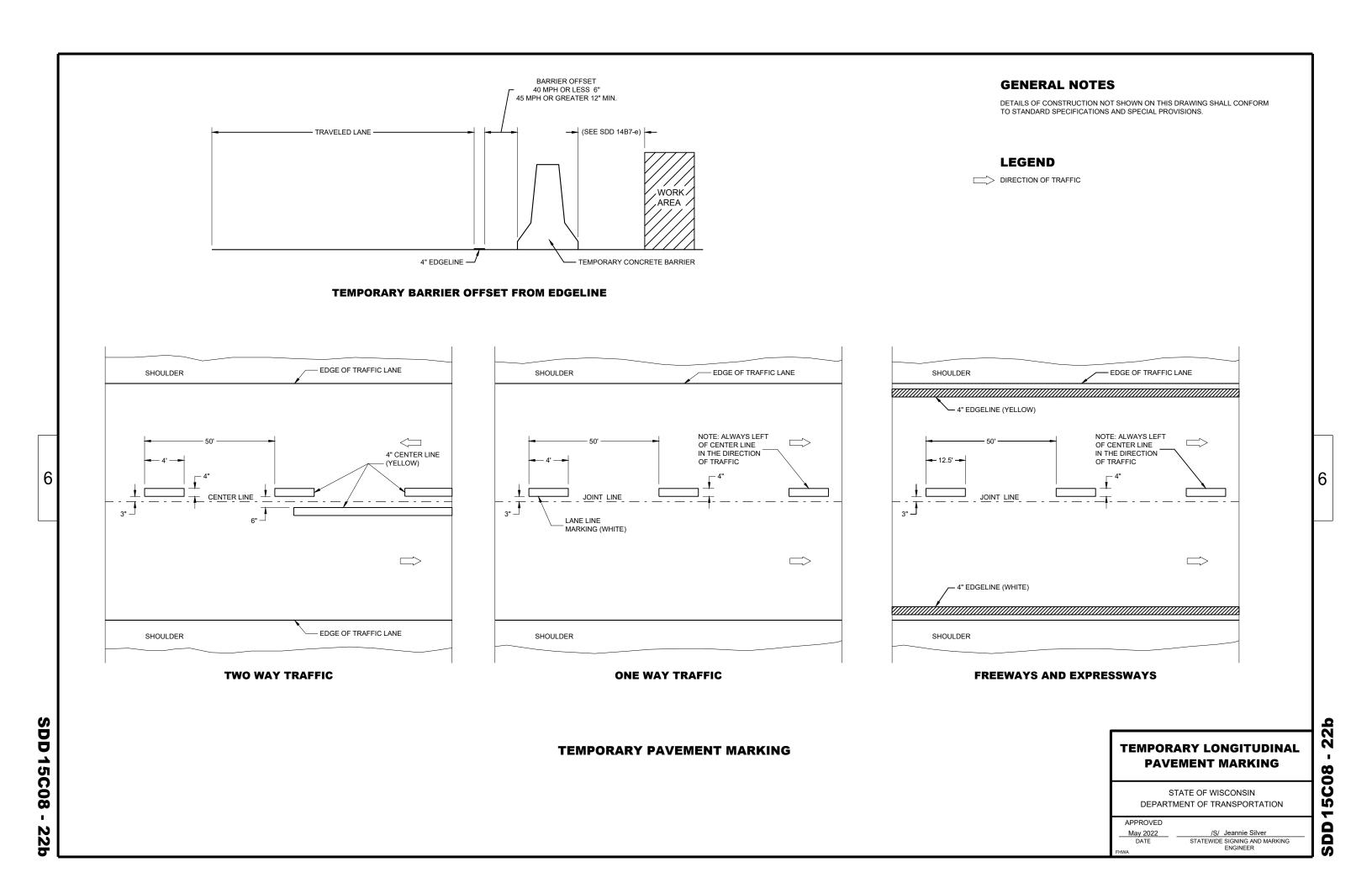
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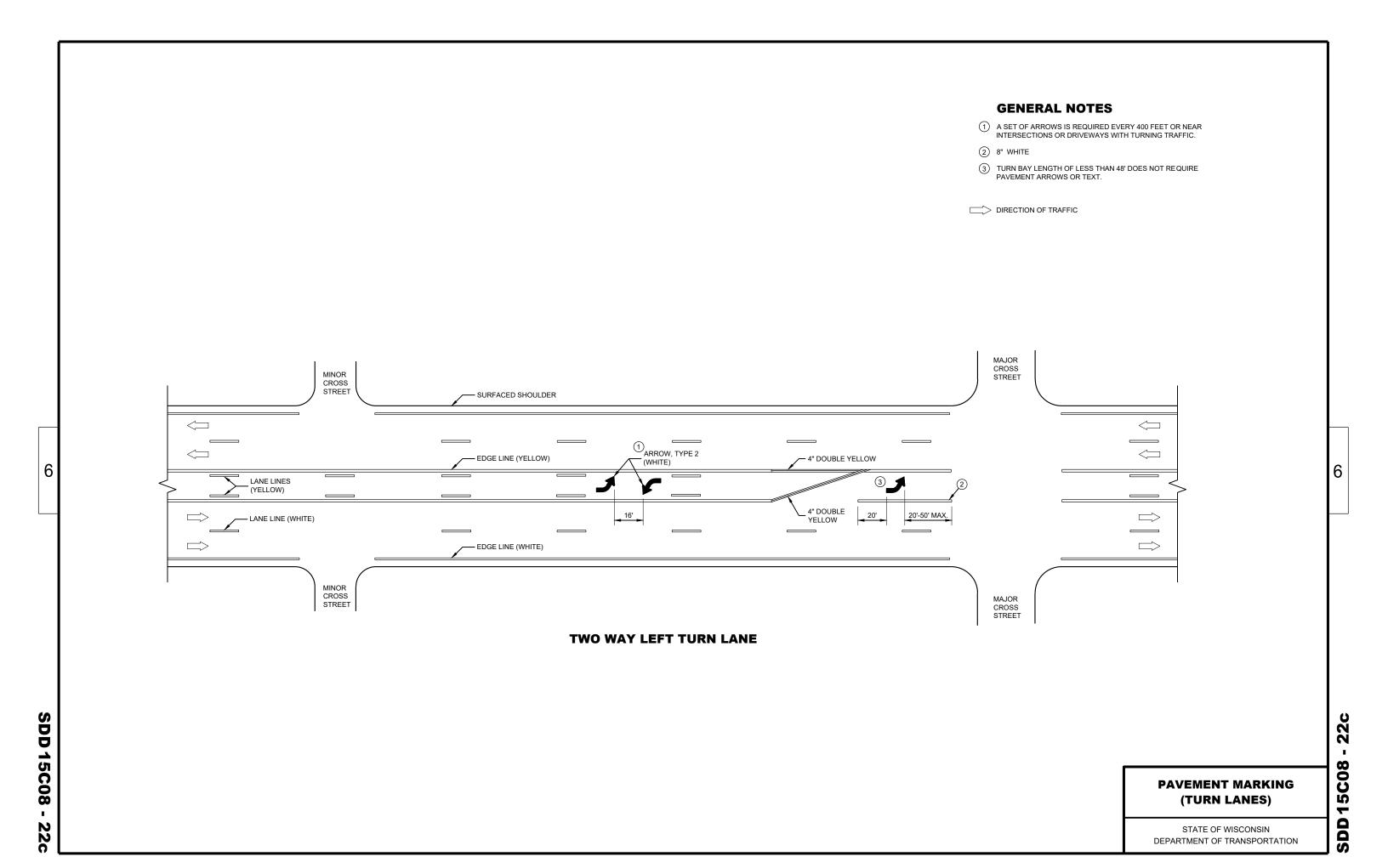


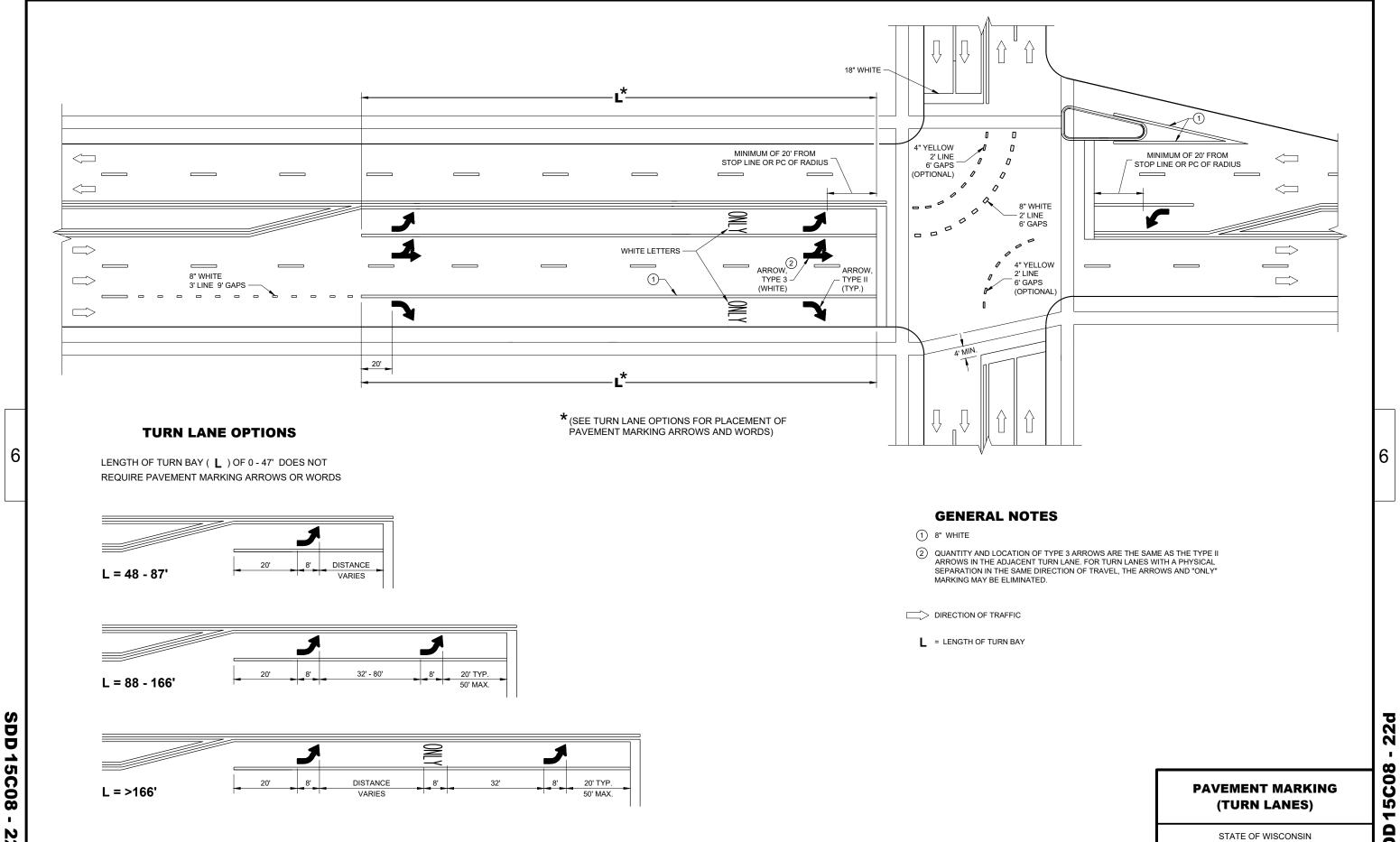
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APPROVED May 2022 DATE /S/ Jeannie Silver
STATEWIDE SIGNING AND MARKING
ENGINEER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION







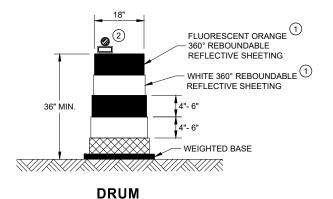
SDD 15C08

DEPARTMENT OF TRANSPORTATION

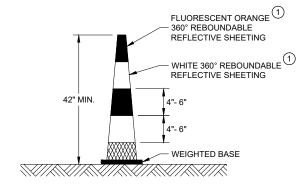
SDD 15C11

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.

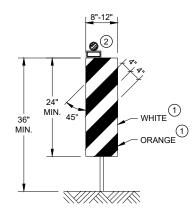


BALLAST WIDTHS RANGE FROM 24"-36"



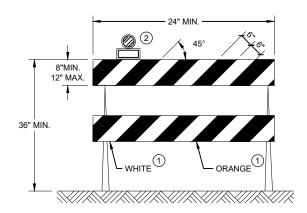
42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



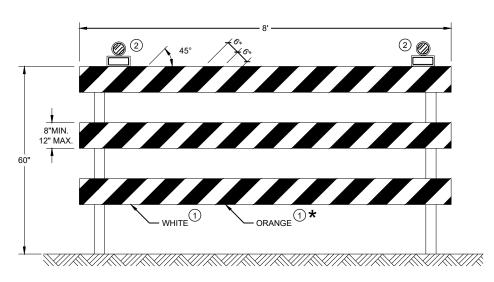
VERTICAL PANEL

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

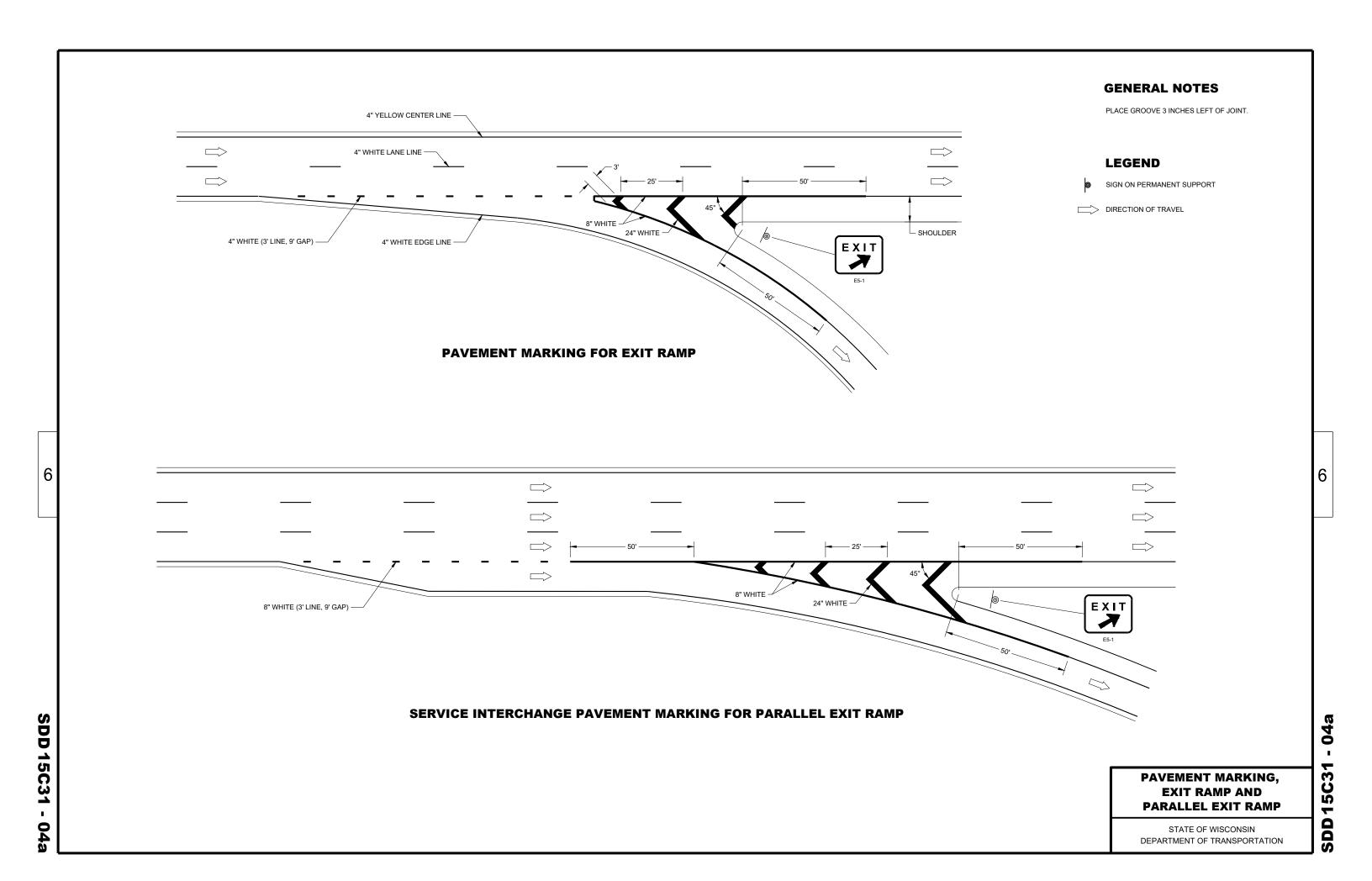
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

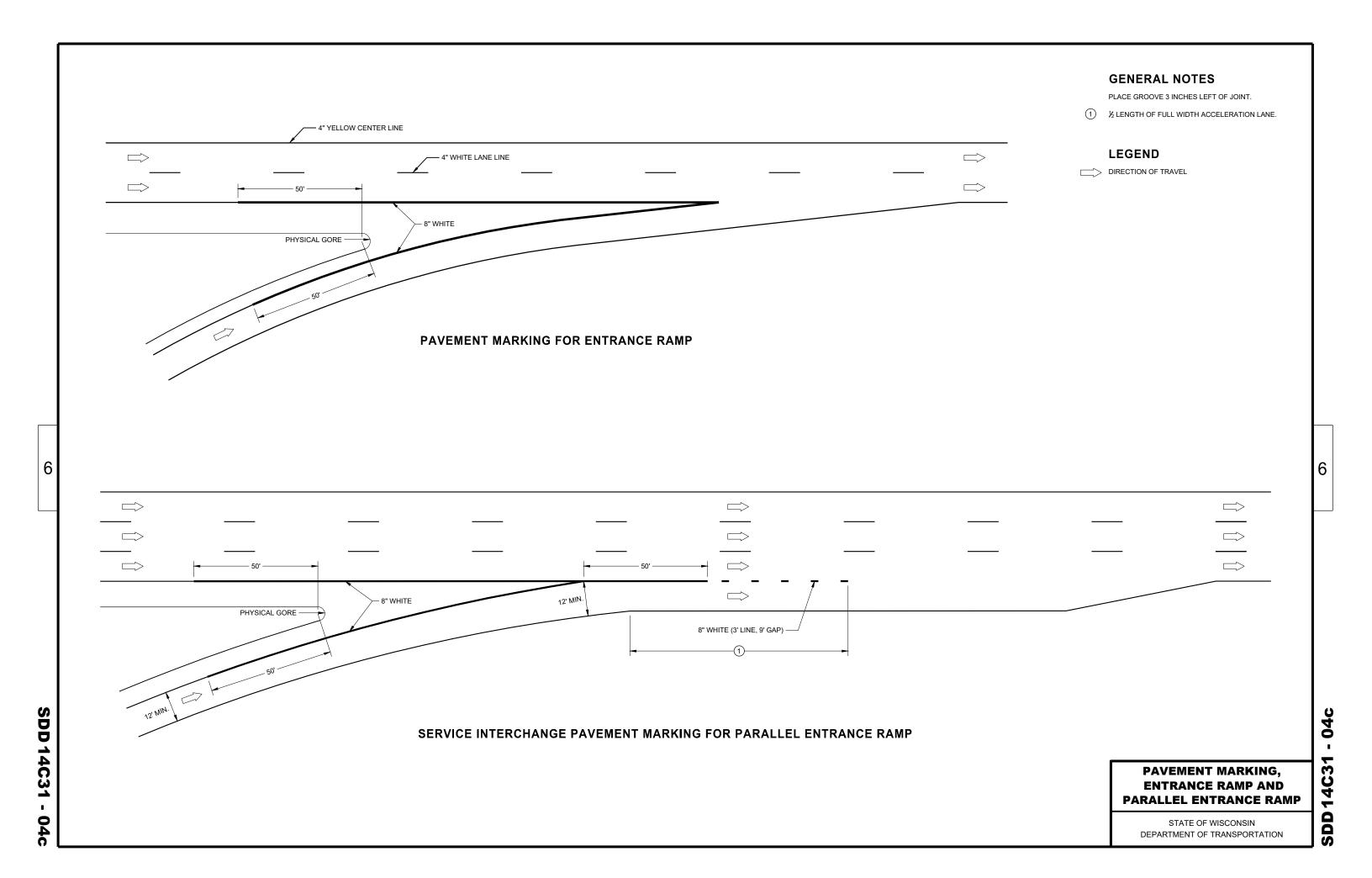
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

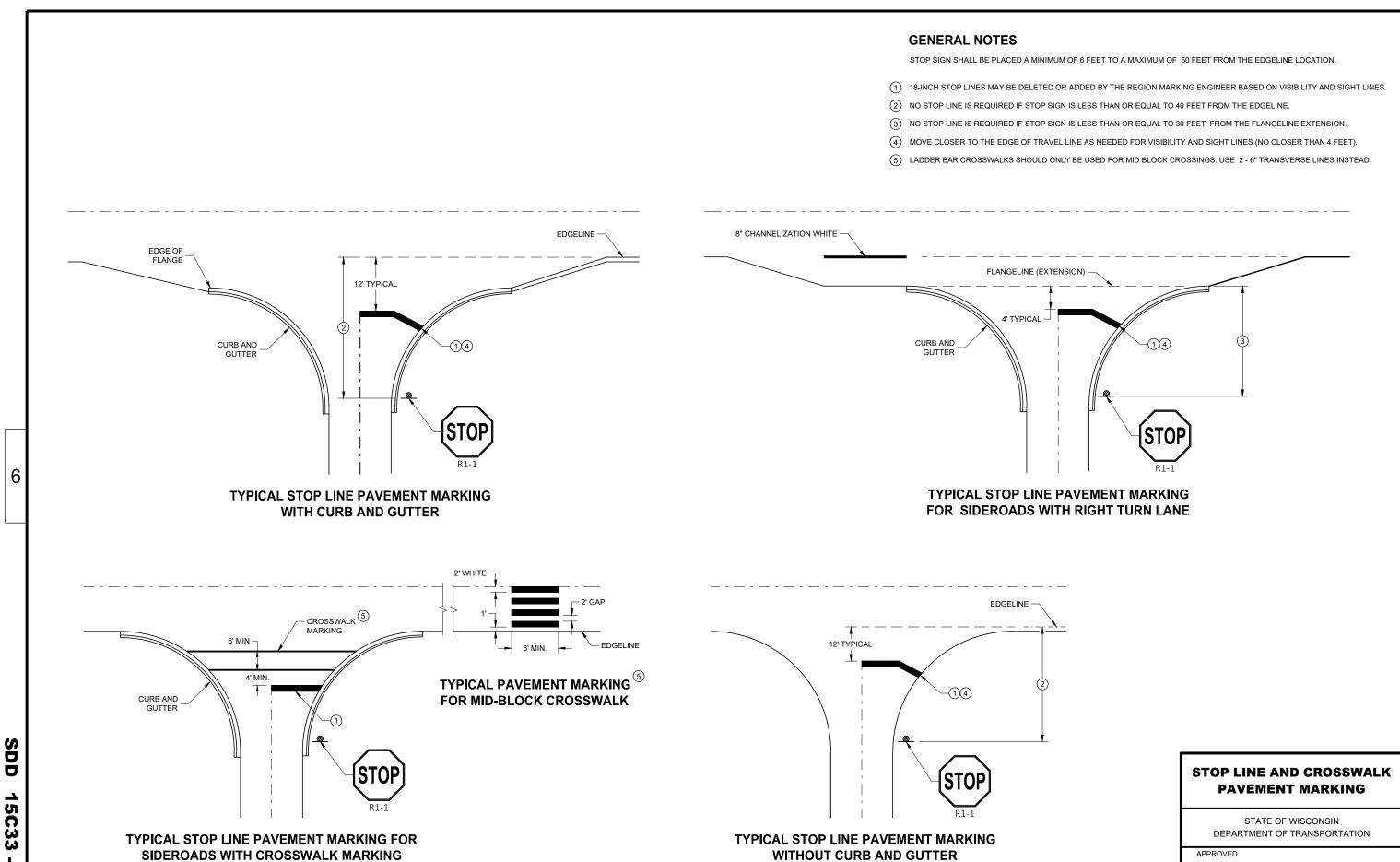
CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

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



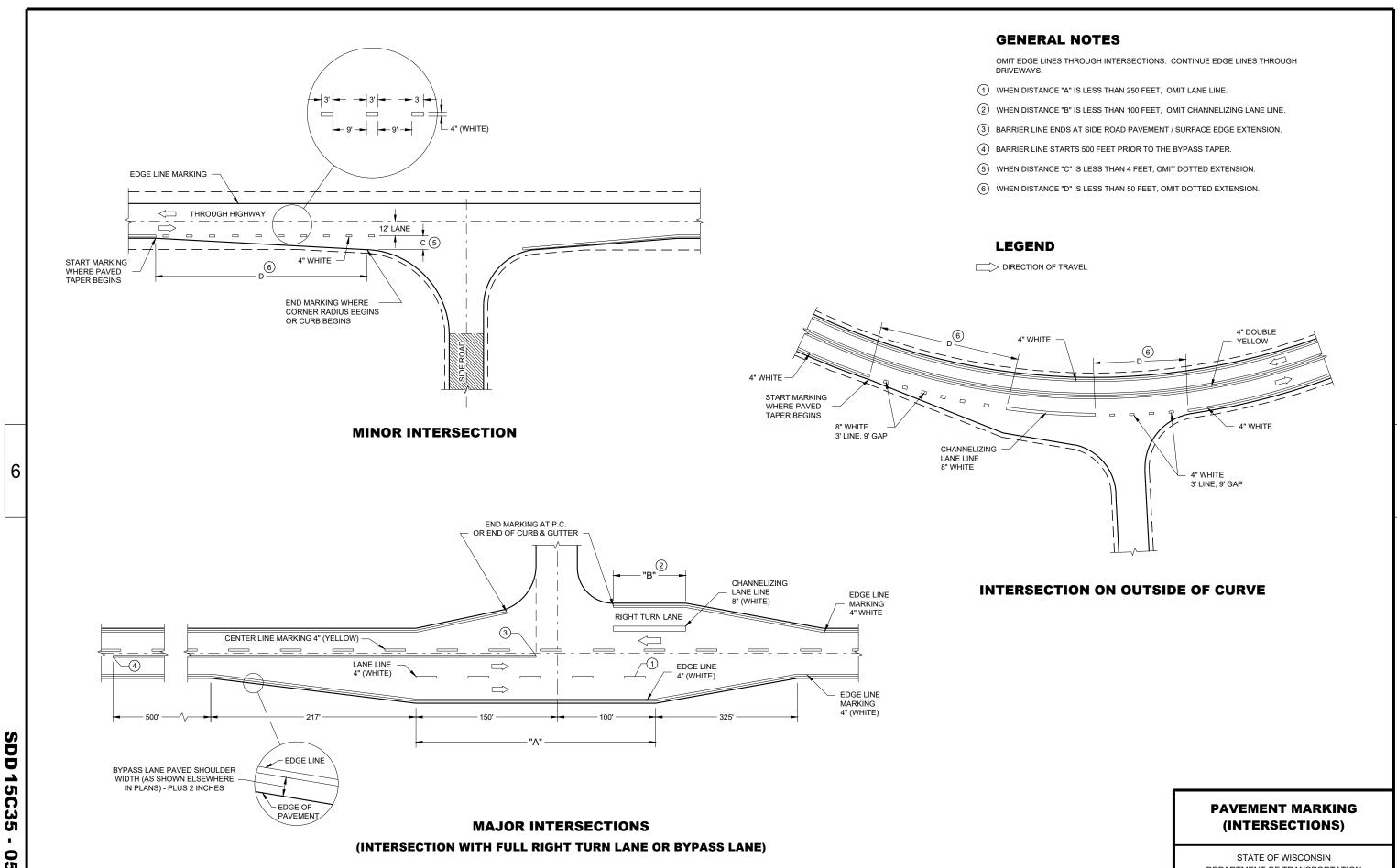




/S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

November 2019 DATE

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05 **SDD 15C3**

DEPARTMENT OF TRANSPORTATION

LEGEND GENERAL NOTES THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS. THE ADVANCED SIGN ON PERMANENT SUPPORT TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS. THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE TRAFFIC CONTROL DRUM MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS. IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS. THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE. WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION. TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED. IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET. TYPE III BARRICADE WITH ATTACHED SIGN "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE TYPE "A" WARNING LIGHT (FLASHING) PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER. BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY -X-X-X REMOVING PAVEMENT MARKINGS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS. THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER. DIRECTION OF TRAFFIC (1) 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. WORK AREA FLASHING ARROW BOARD SPEED LIMIT 60 OR SPEED LIMIT 55 CLOSED CLOSED 7 1/2 MILE END ROAD WORK 48"X24" SPACED EVERY 1/4 MILE TEMPORARY PAVEMENT MARKING LINE, 4 INCH (WHITE ON RIGHT, YELLOW ON LEFT). 5 DRUMS SPACED @ 10' INTERVALS AS NEEDED IN FRONT OF ARROW BOARD , WORK AREA — 400' L, TAPER 500' MIN. - 800' DESIRABLE 55 MPH - 660' 60 MPH - 720' ADVANCED WARNING AREA TRANSITION AREA **BUFFER SPACE**

TRAFFIC CONTROL, LANE CLOSURE, **SPEED REDUCTION**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Andrew Heidtke WORK ZONE ENGINEER

SDD 15D 72

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February 2022 DATE

2

<u>1</u>

(PLACE 500' IN

ADVANCE OF GORE)

(OPTIONAL)

(PLACE 1000' IN

ADVANCE OF GORE

100' (TYP.)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

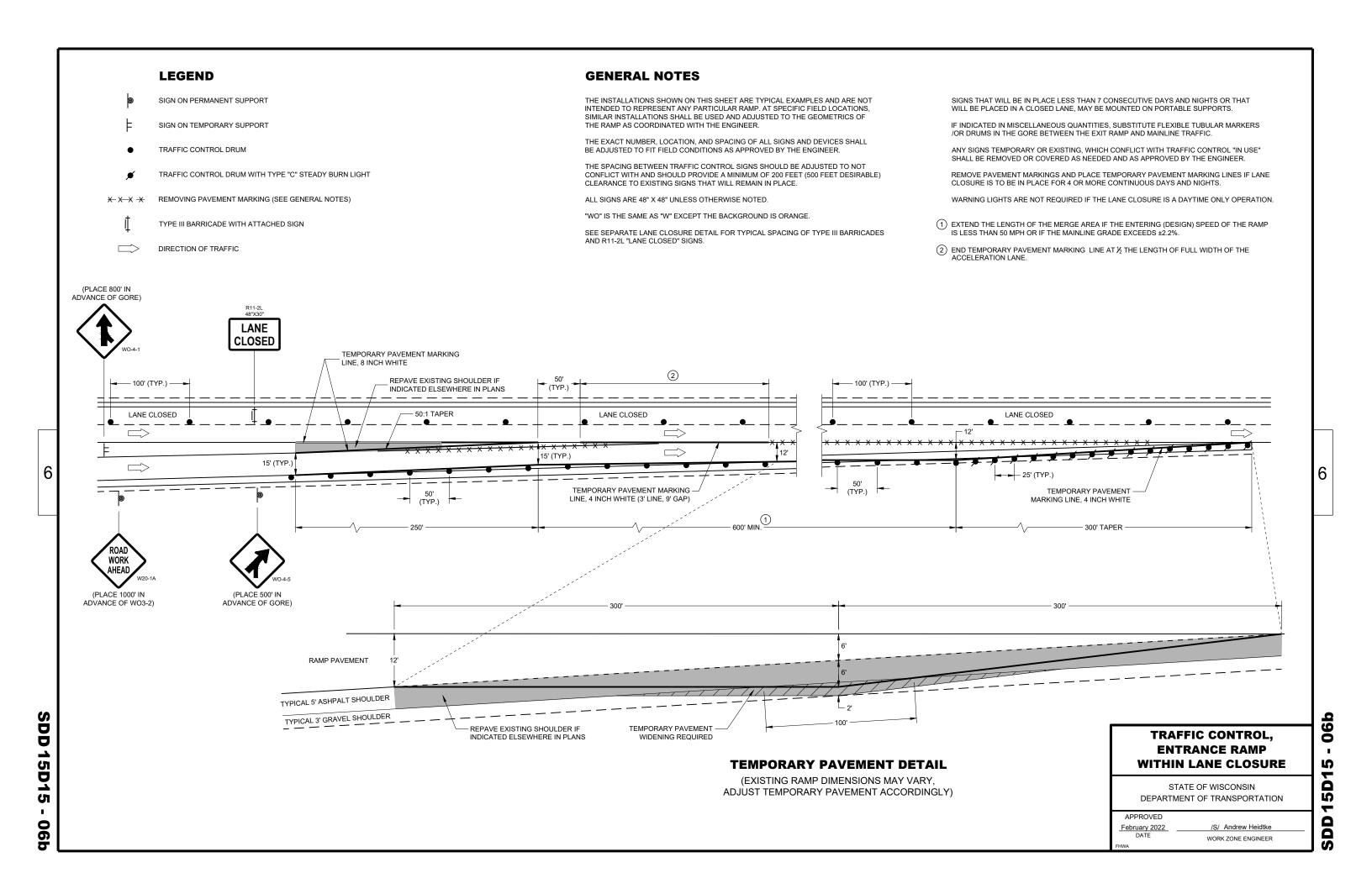
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LANE CLOSED



ADVANCE OF WO3-2)

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

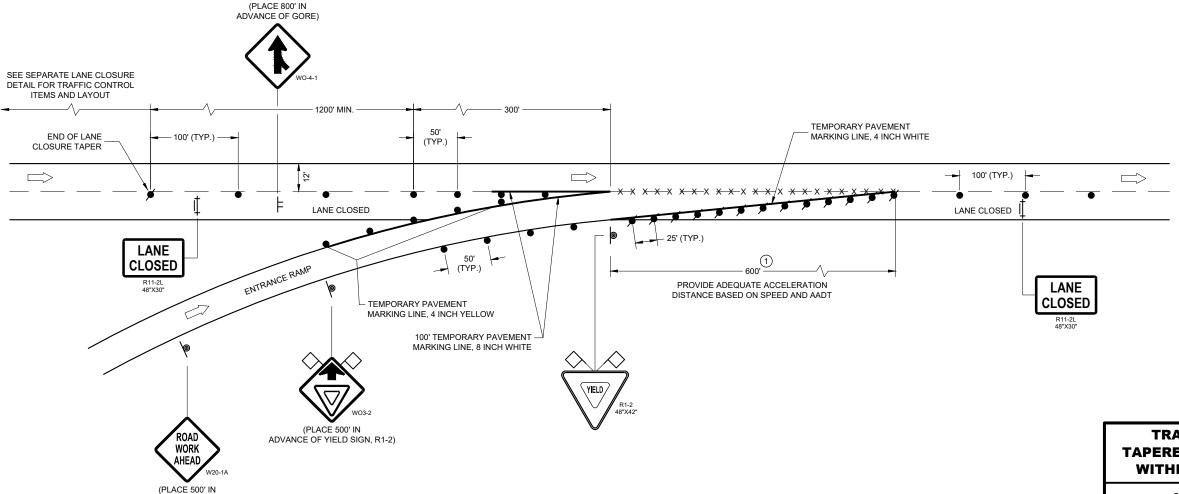
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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.

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

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

(1) CONSULT WITH REGIONAL WORK ZONE ENGINEER IF NEED TO REDUCE LENGTH EXISTS.



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2022 DATE

S /S/ Andrew Heidtke WORK ZONE ENGINEER

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GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

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

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

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

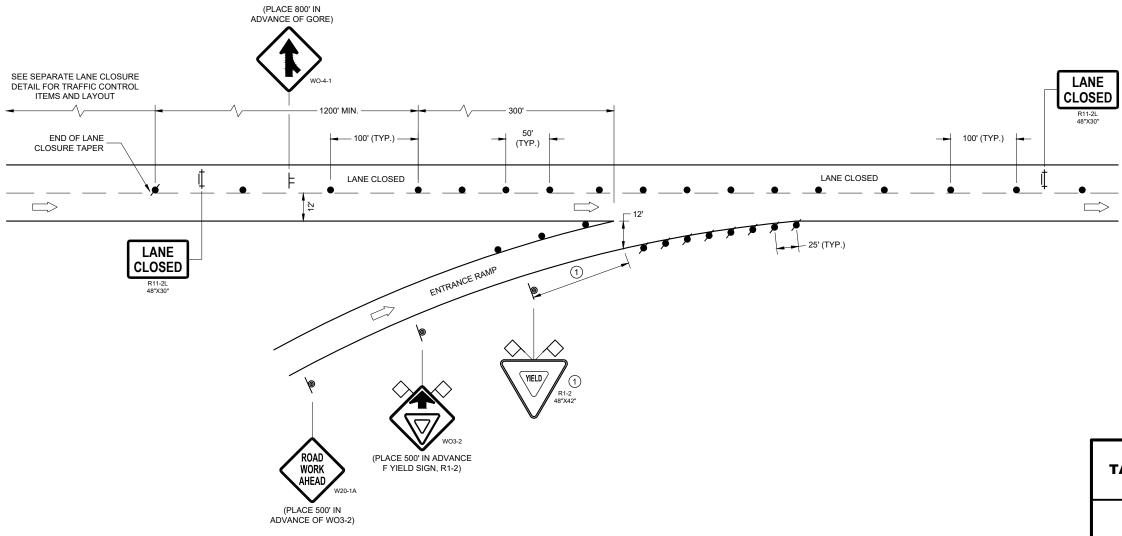
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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.

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

(1) PLACE YIELD SIGN TO PROVIDE ADEQUATE SIGHT DISTANCE AND ACCELERATION DISTANCE.



TRAFFIC CONTROL, **TAPERED ENTRANCE RAMP** WITHIN LANE CLOSURE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER Ŏ

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SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

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

X-X-X REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TYPE III BARRICADE WITH ATTACHED SIGN

DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

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

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

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

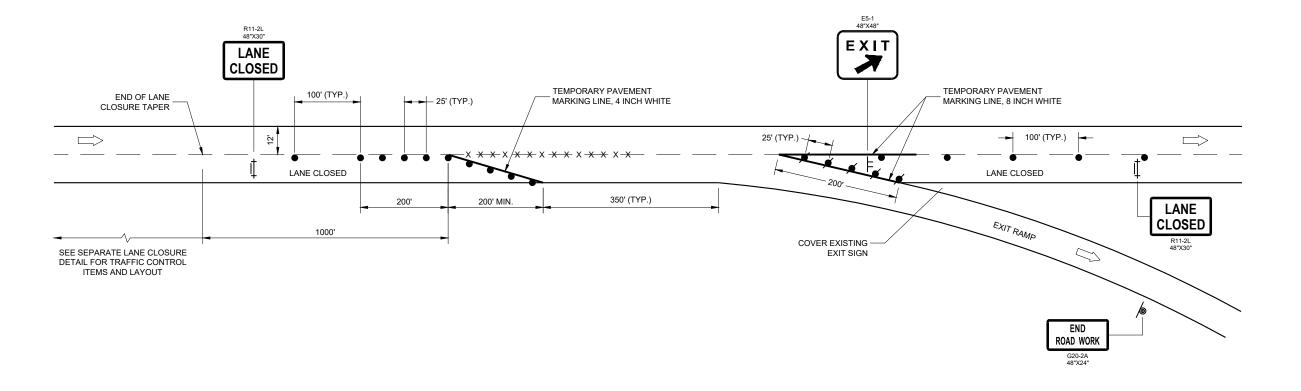
SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

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

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

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

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



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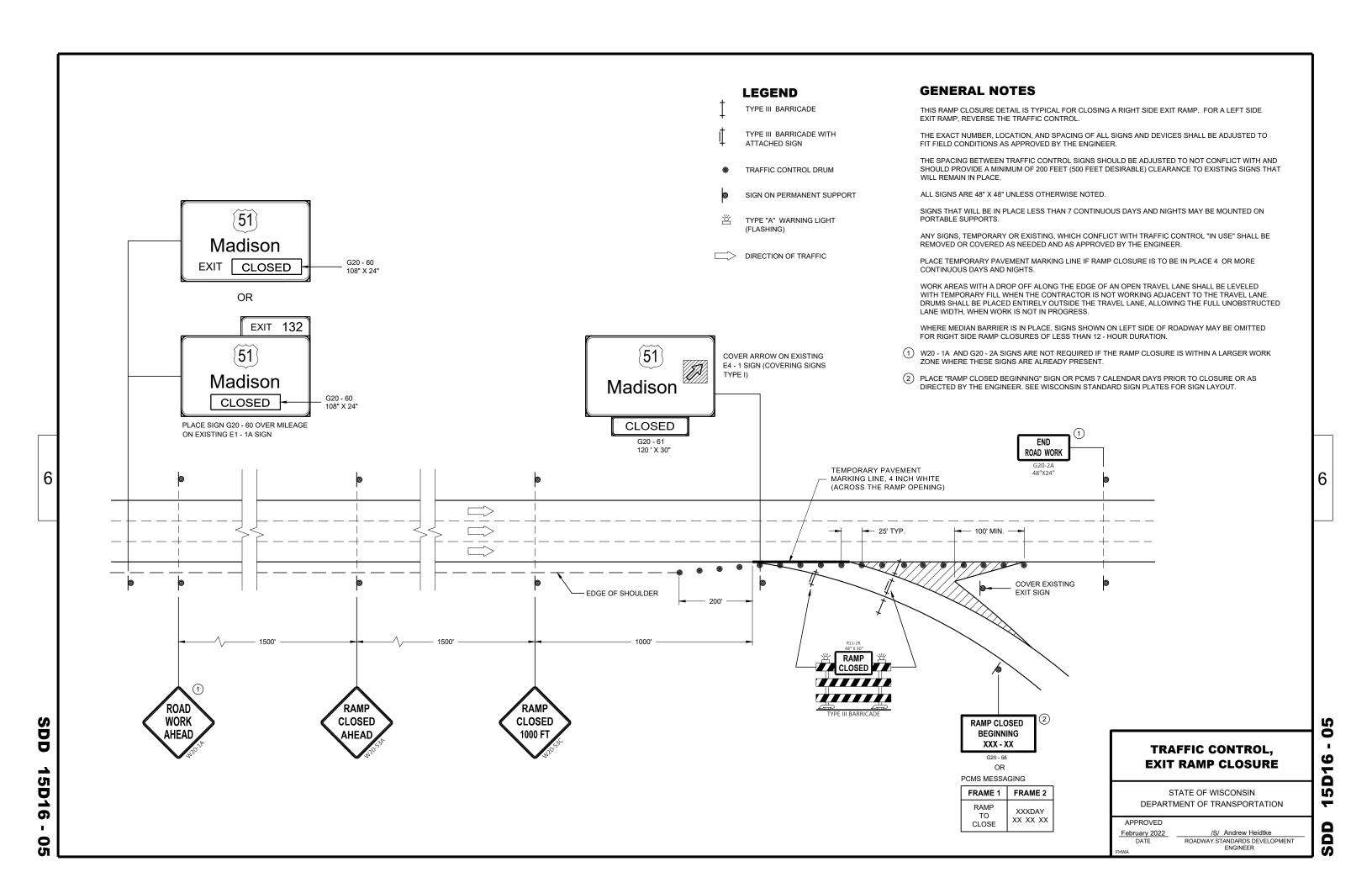
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February 2022
DATE

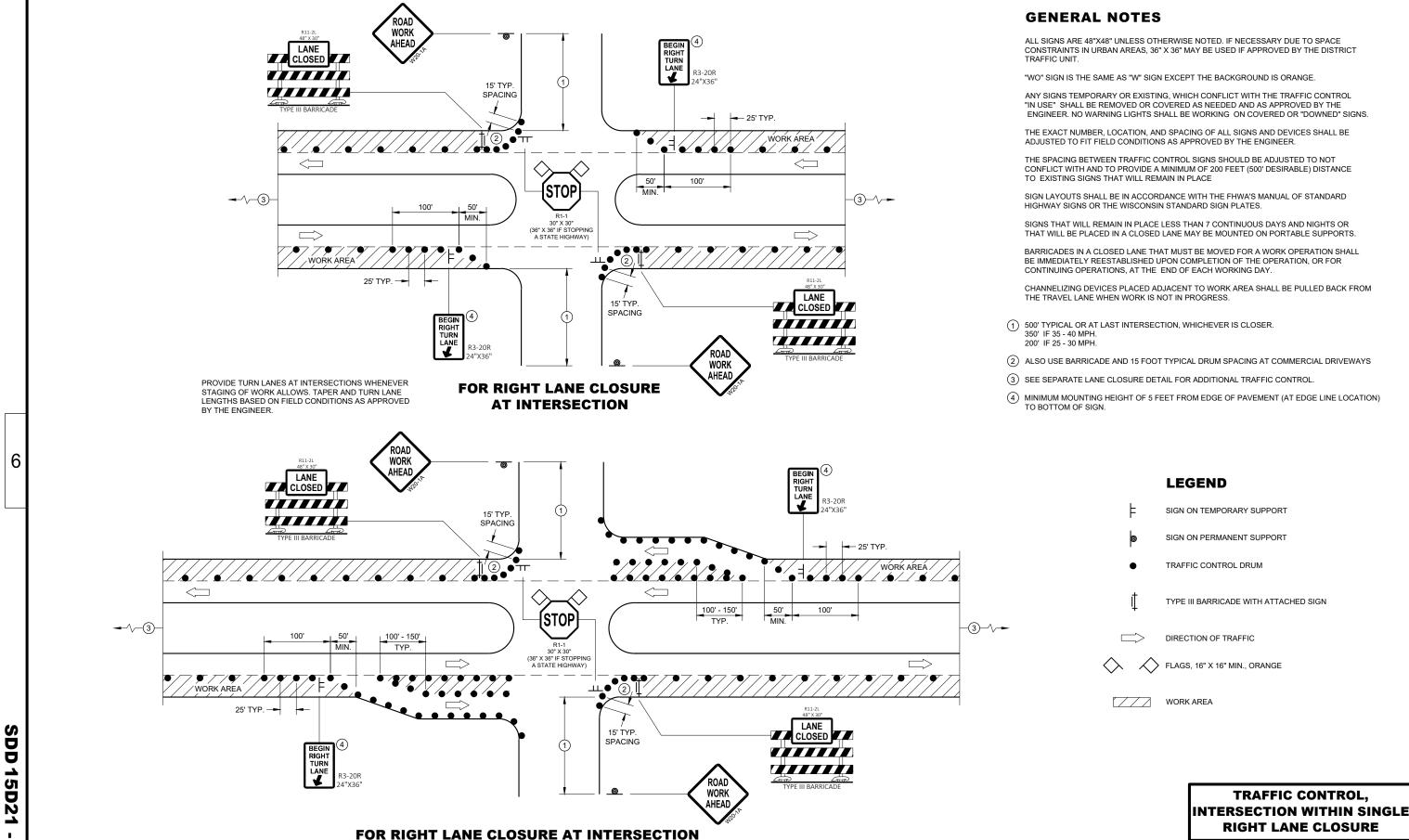
/S/ Andrew Heidtke
WORK ZONE ENGINEER

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SDD 15D15 - 06

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(WITH RIGHT TURN BAY OPEN)

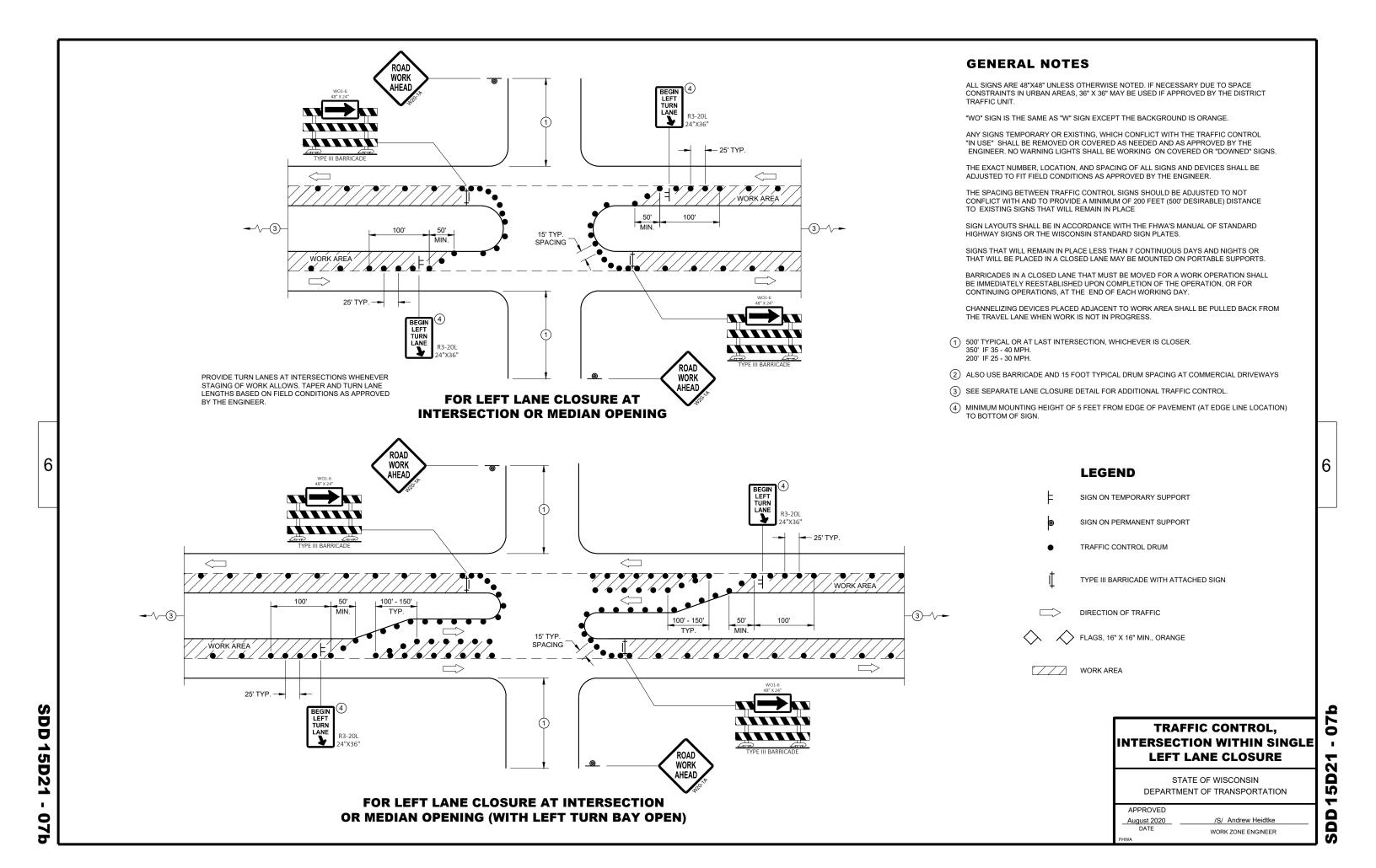
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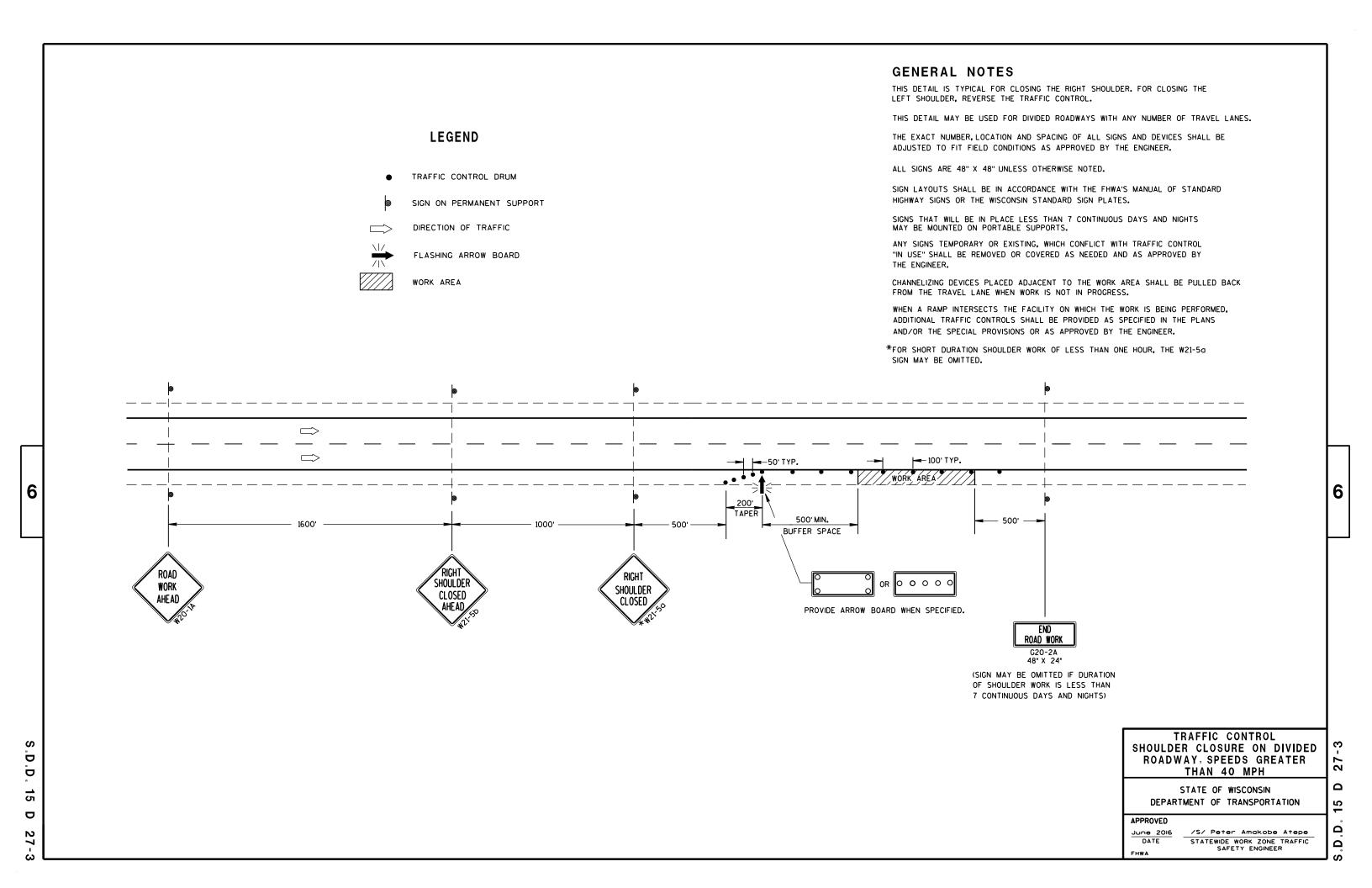
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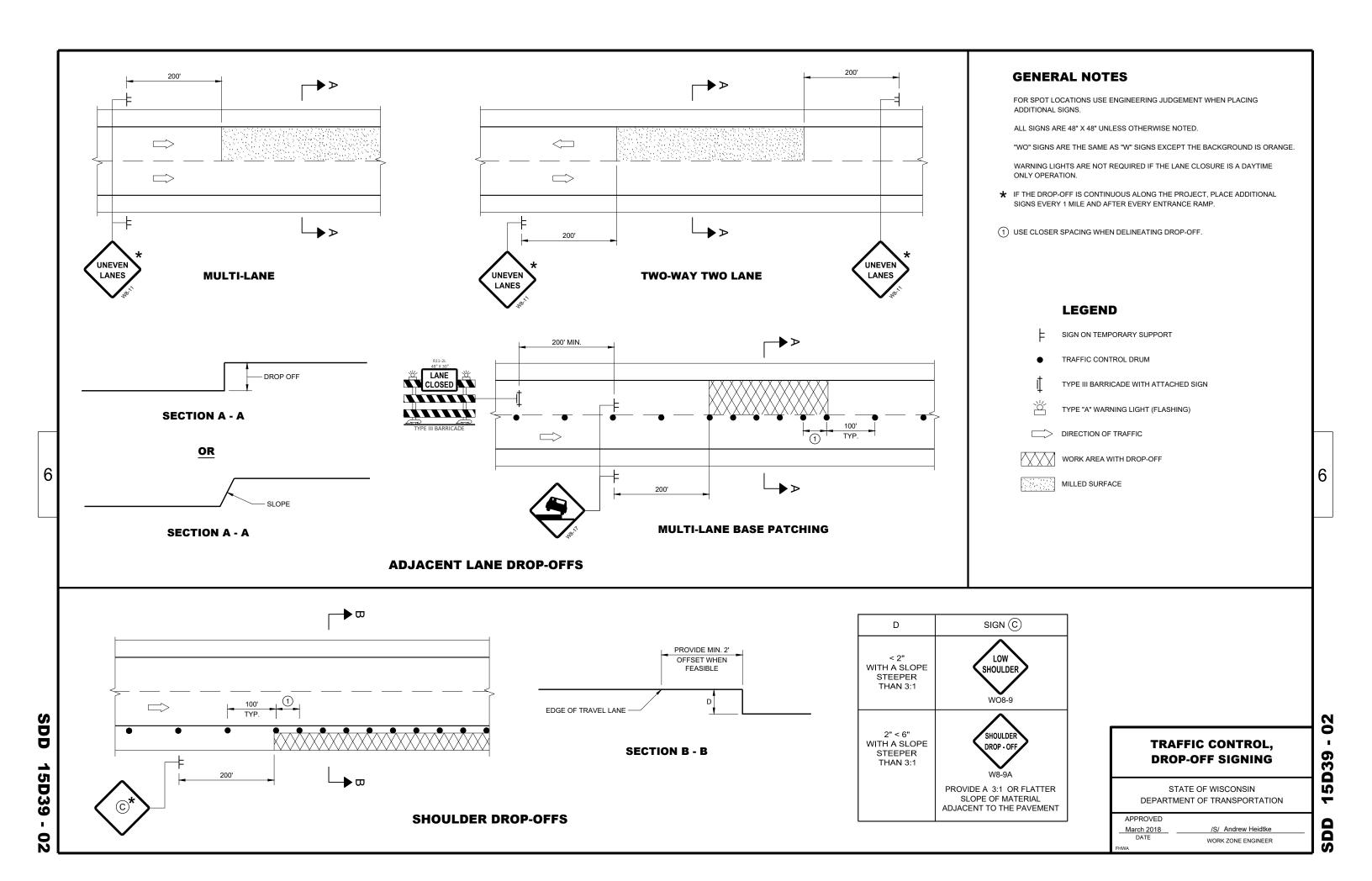
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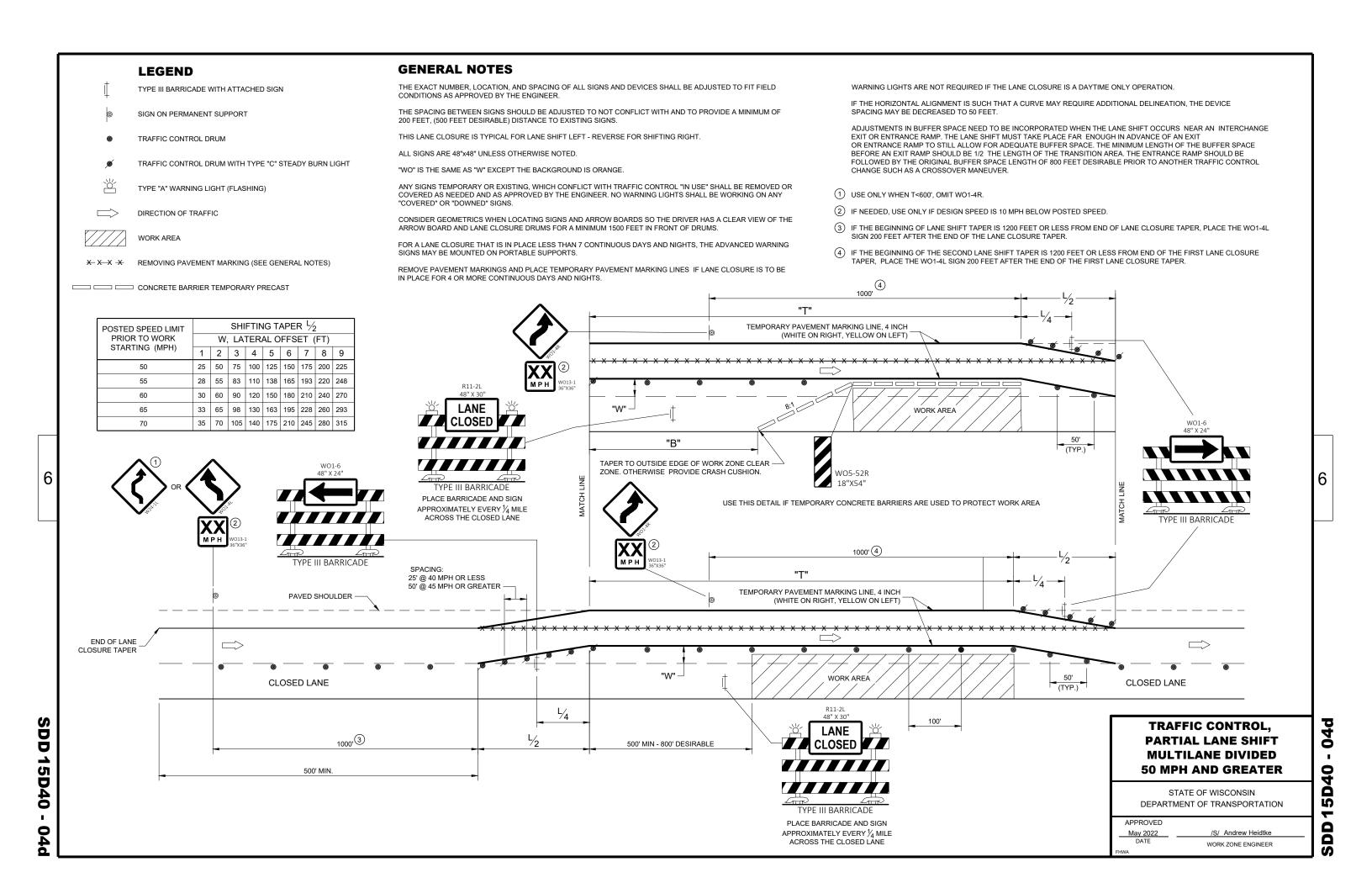
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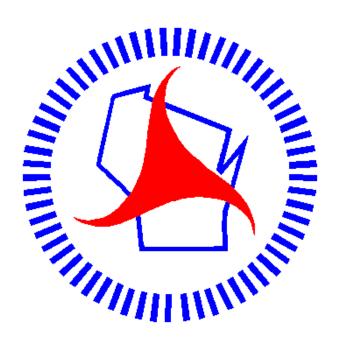








Notes



Wisconsin Department of Transportation

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