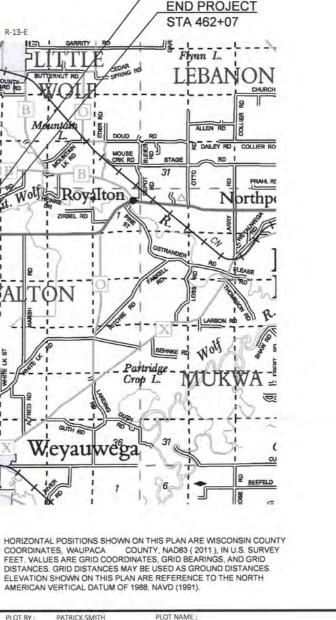
MAY 2020 STATE OF WISCONSIN ORDER OF SHEETS PROJECT WITH: N/A DEPARTMENT OF TRANSPORTATION Typical Sections and Details ₽ PLAN OF PROPOSED IMPROVEMENT Plan and Profile Standard Detail Drawings 220-00-72 TOTAL SHEETS = 48 STATE PROJECT NUMBER 6220-00-72 END CONSTRUCTION STA 19'W'+19 ensburg DESIGN DESIGNATION **BEGIN PROJECT** A.A.D.T. = 4,400 - 5,900 A.A.D.T. = 5,600 - 7,300 2040 STA 331+00 D.H.V. X = 569,599.64D.D. Y = 347,581.28 = 20.1% DESIGN SPEED = 60 MPH ESALS CONVENTIONAL SYMBOLS PROFILE GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT UTILITIES REFERENCE LINE ELECTRIC **EXISTING CULVERT** FIBER OPTIC PROPOSED CULVERT (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE WATER MARSH AREA UTILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = 2.424 POWER POLE TELEPHONE POLE WOODED OR SHRUB AREA

STATE PROJECT	FEDERAL PROJE	CT
STATE PROJECT	PROJECT	CONTRACT
6220-00-72	WISC 2020265	1
		-
	+	

WAUPACA - CLINTONVILLE

STH 110S-STH 54E/S BR LITTLE WOLF

STH 22 WAUPACA COUNTY



STRUCTURE B-68-30 STA 19'W'+19 - STA 19'W'+78



ORIGINAL PLANS PREPARED BY:

2

GENERAL NOTES:

THERE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO "DIGGERS HOTLINE" AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

THE LOCATION OF EXISTING UTILITY FACILITIES LOCATED WITHIN THE PROJECT ARE NOT SHOWN ON THE PLANS. IF THERE ARE UTILITY CONFLICTS WITH SIGNS OR OTHER WORK UNDER PROJECT, THE CONTRACTOR WILL WORK AROUND THE UTILITY FACILITIES.

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

DNR CONTACT:

CASEY JONES
473 GRIFFITH AVENUE
WISCONSIN RAPIDS, WI 54494
(715) 213-6571
CASEY.JONES@WISCONSIN.GOV

UTILITY CONTACTS:

CENTURYLINK - COMMUNICATION LINE MATT GUNDERSON - OPS ENGINEER II 212 CHURCH AVENUE CASCO, WI 54205 (920)837-2344 (OFFICE) (920)896-2867 (CELL) MATT.GUNDERSON@CENTURYLINK.COM

SOLARUS - COMMUNICATION LINE DENNIS PIERCE 440 E GRAND AVENUE PO BOX 8045 WISCONSIN RAPIDS, WI 54494-8045 (715)421-8172 (OFFICE) (715)572-0152 PIERCE@SOLARUS .NET

WE ENERGIES - ELECTRICITY ZACH DUGA 800 S LYNNDALE DRIVE APPLETON, WI 54914 (920)380-3458 (OFFICE) (920)450-9314 (CELL)

RUNOFF COEFFICIENT TABLE

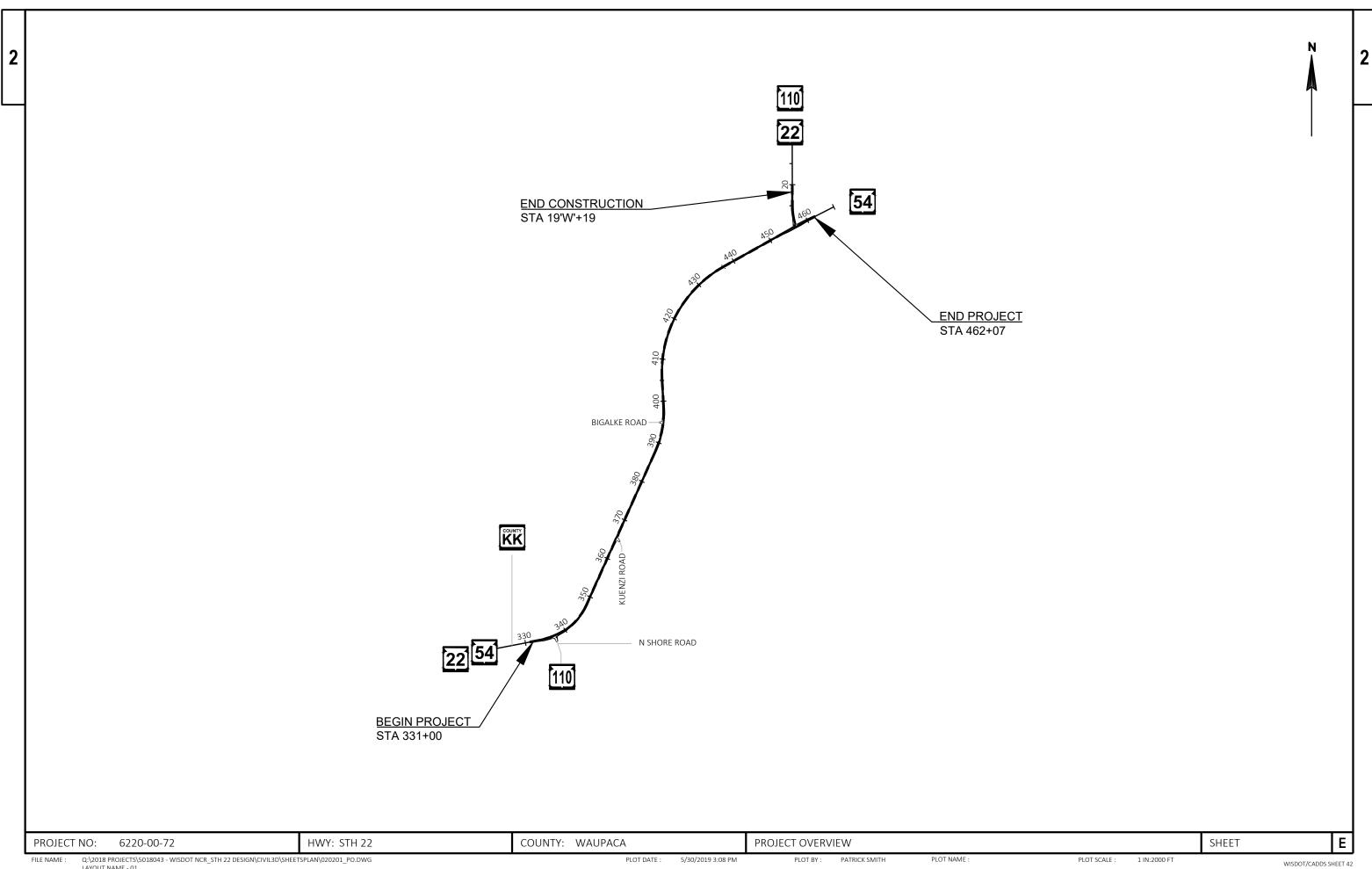
					H	HYDROLOGIC	SOIL GF	ROUP				
		А			В			С			D	
	SLOPE	E RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)
LAND USE:	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER
	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
ROW CROPS:	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
MEDIAN STRIP TURF:	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
			.25			.27			.28			.30
SIDE SLOPE TURF:			.32			.34			.36			.38
PAVEMENT												
ASPHALT				7095								
CONCRETE			.8	3095								
BRICK			-	7080								
DRIVES, WALKS			-	7585								
ROOFS				7595								
GRAVEL ROADS, SHOUL	LDERS		.4	4060								

TOTAL PROJECT AREA = 12.9 ACRES

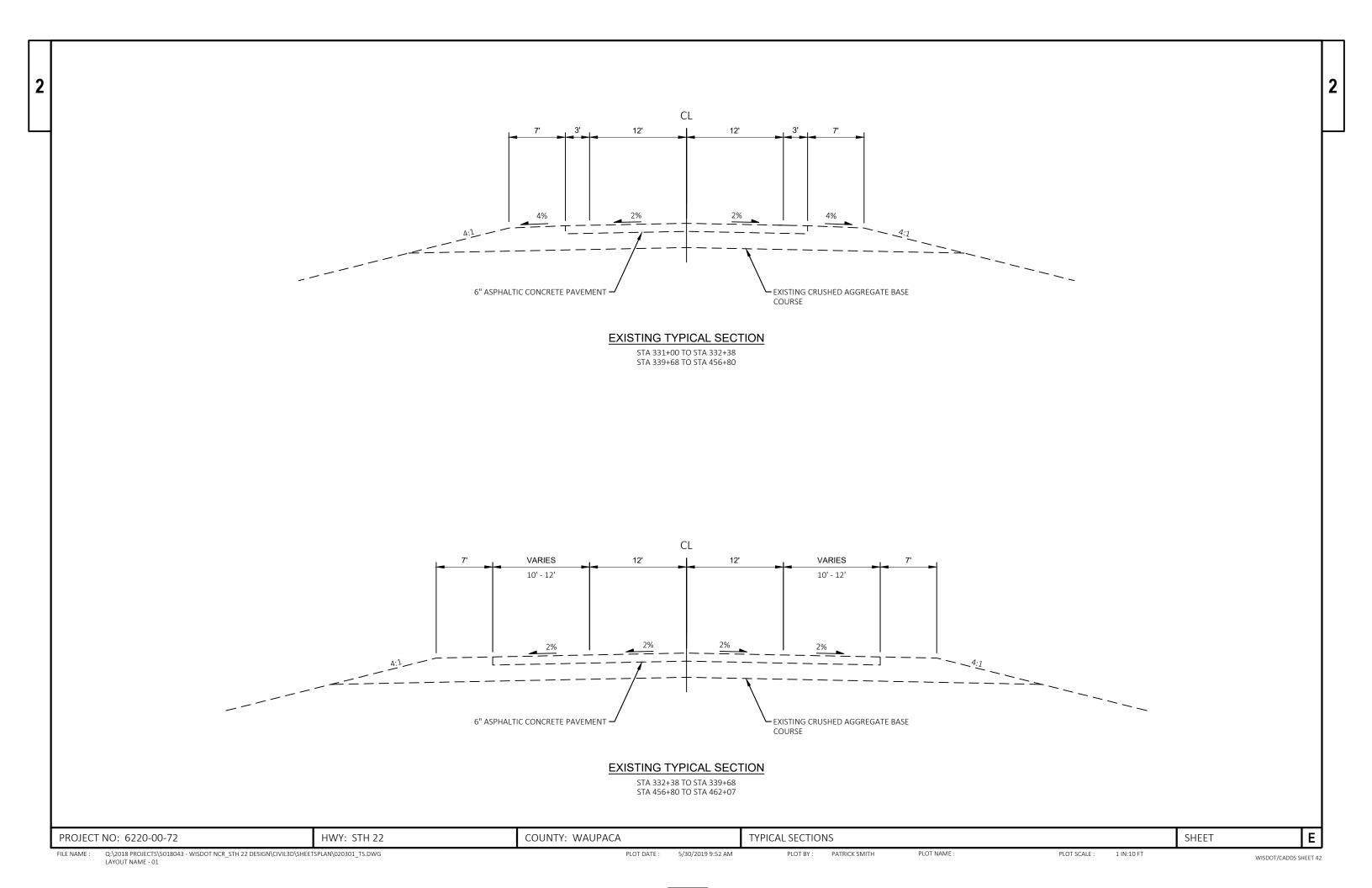
TOTAL AREA TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 12.9 ACRES

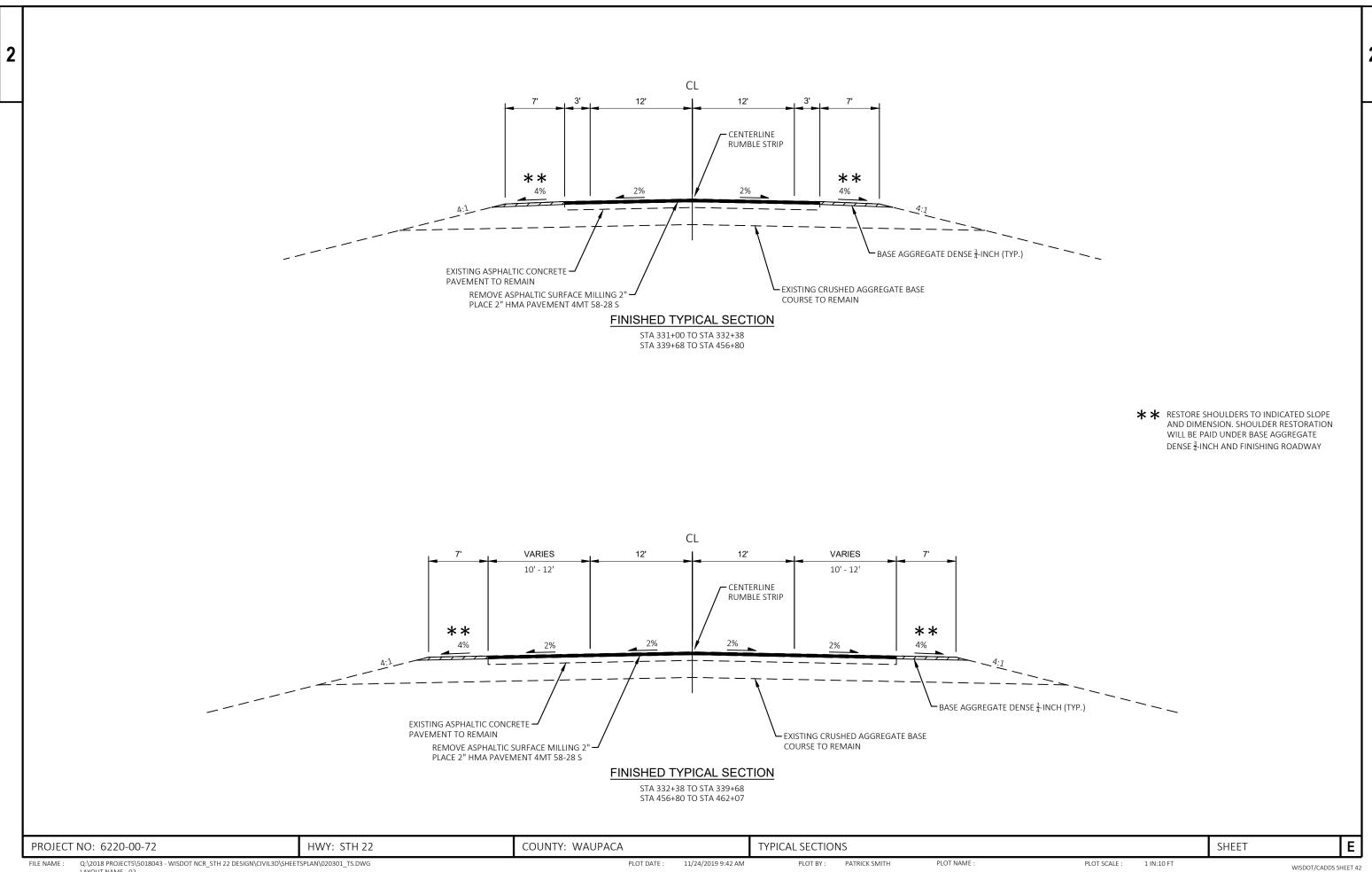
COUNTY: WAUPACA Ε PROJECT NO: 6220-00-72 HWY: STH 22 **GENERAL NOTES** SHEET C:\USERS\MSCR3M\DESKTOP\RYAN MURPHY TEMP\020101 GN.DWG PLOT NAME : FILE NAME : PLOT DATE : PLOT BY: MURPHY, RYAN PLOT SCALE : 1 IN:10 FT 3/9/2020 7:03 AM WISDOT/CADDS SHEET 42

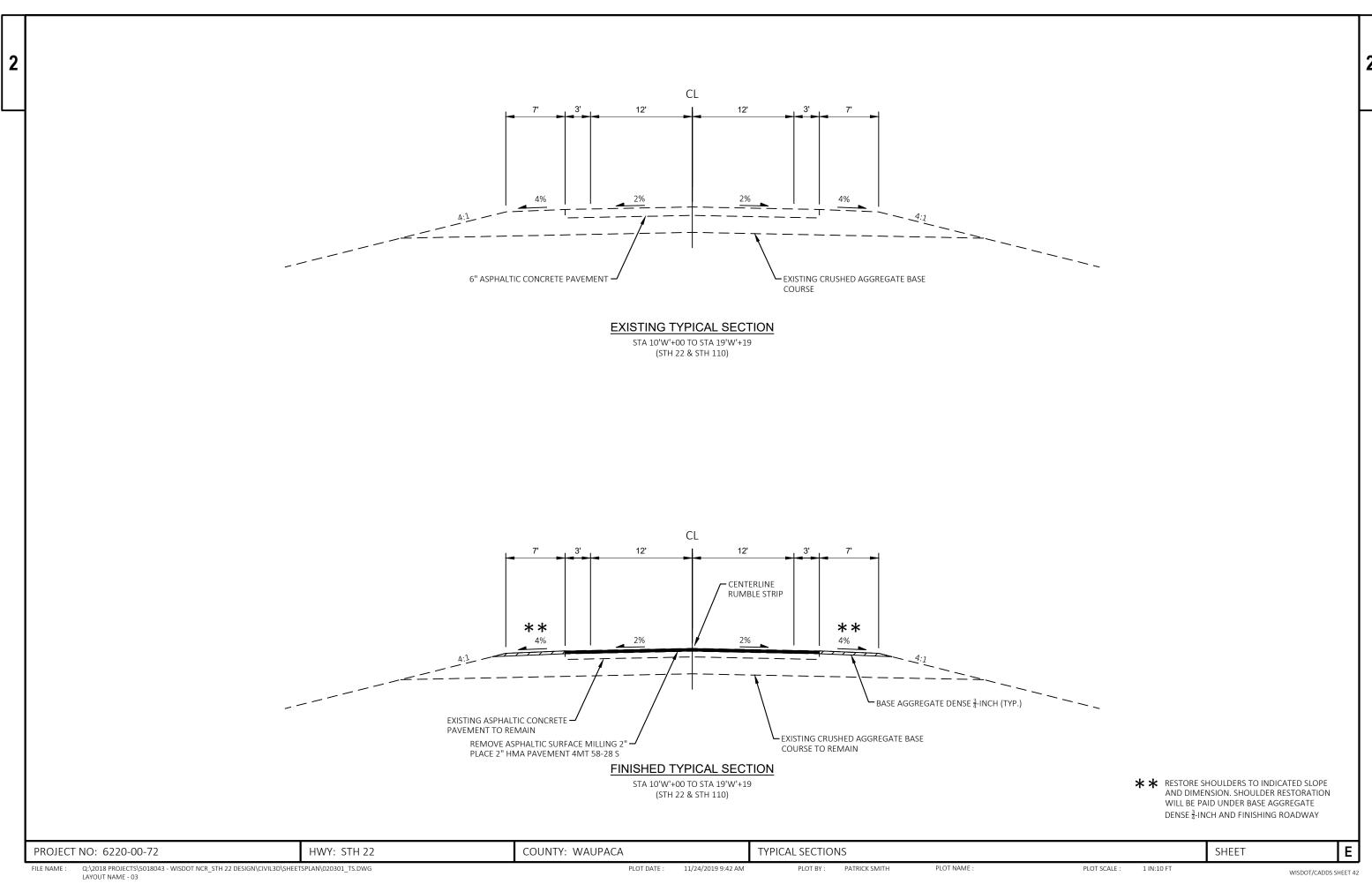
LAYOUT NAME - 01

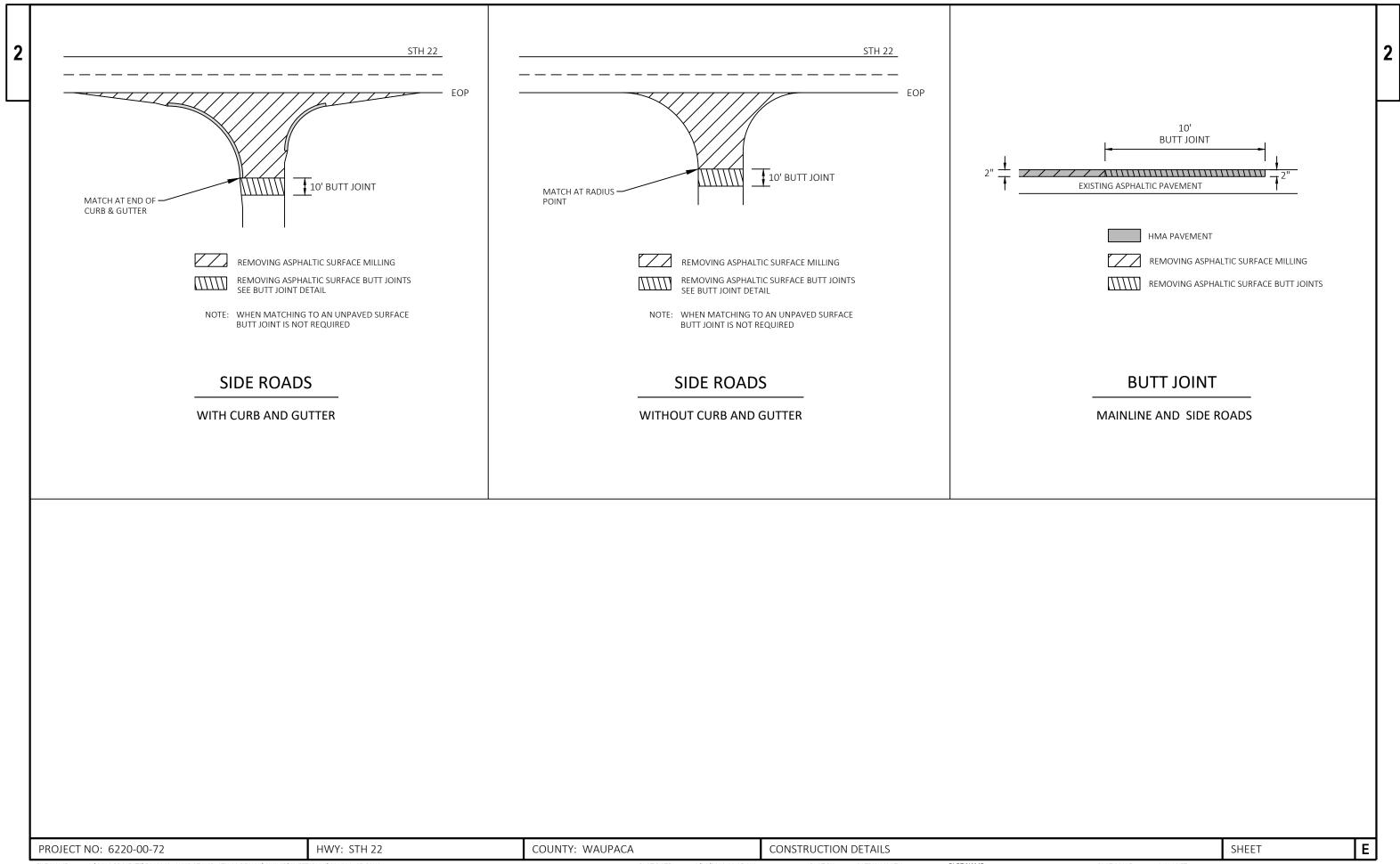


Q:\2018 PROJECTS\5018043 - WISDOT NCR_STH 22 DESIGN\CIVIL3D\SHEETSPLAN\020201_PO.DWG LAYOUT NAME - 01

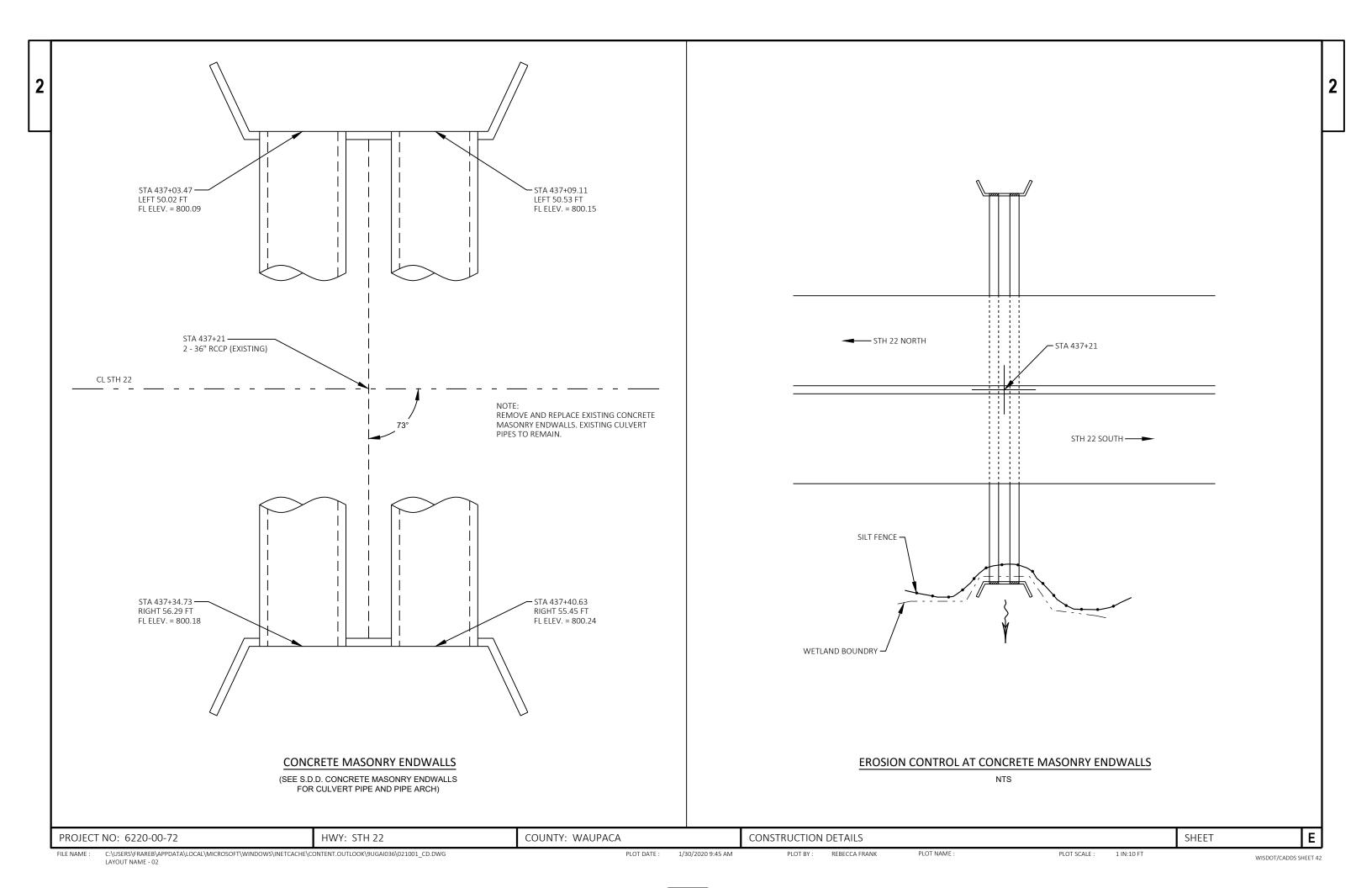


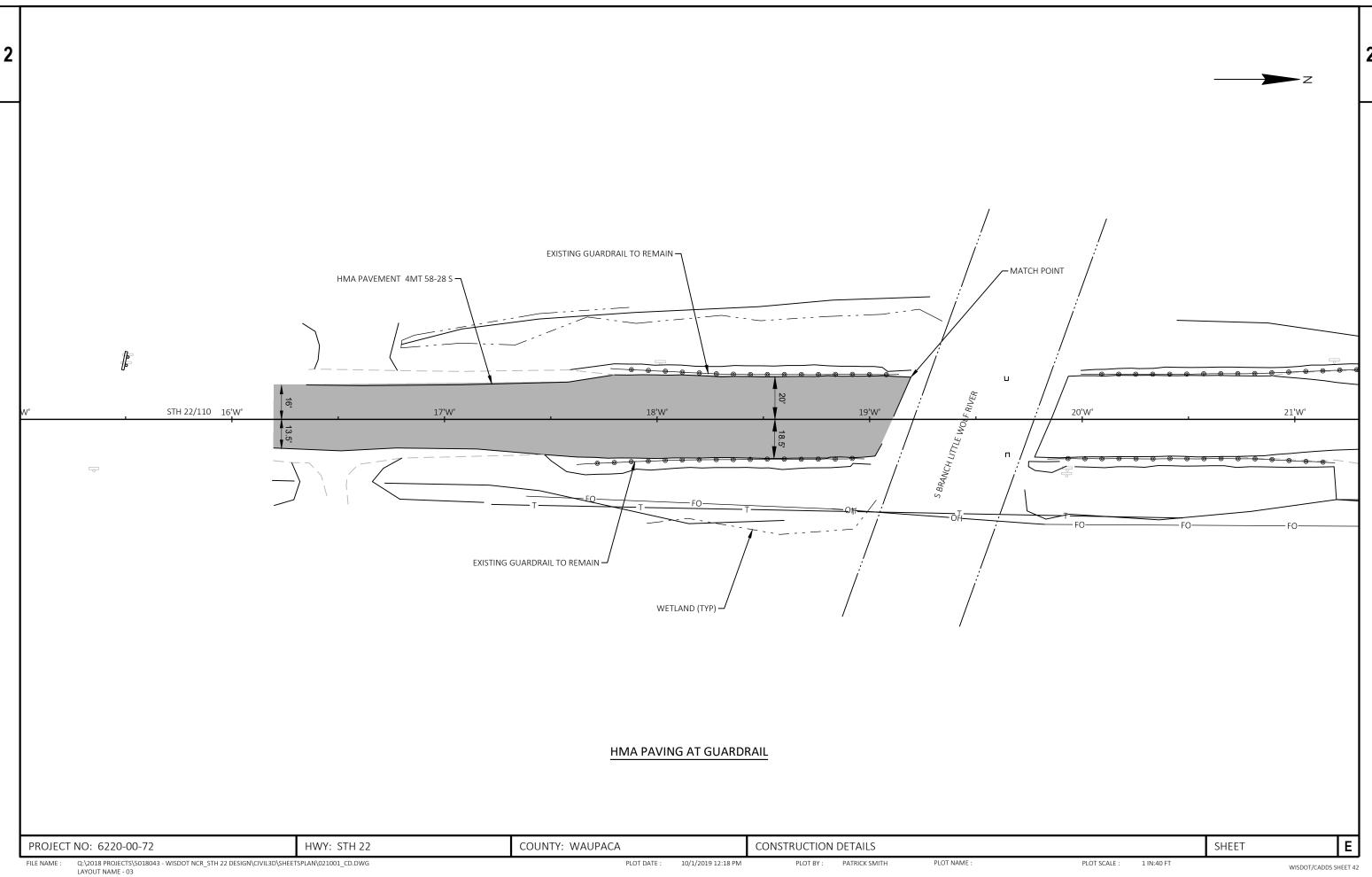






Q:\2018 PROJECTS\5018043 - WISDOT NCR_STH 22 DESIGN\CIVIL3D\SHEETSPLAN\021001_CD.DWG PLOT DATE: 9/26/2019 10:05 AM PLOT BY: PATRICK SMITH PLOT NAME: PLOT SCALE: 1 IN:10 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 01

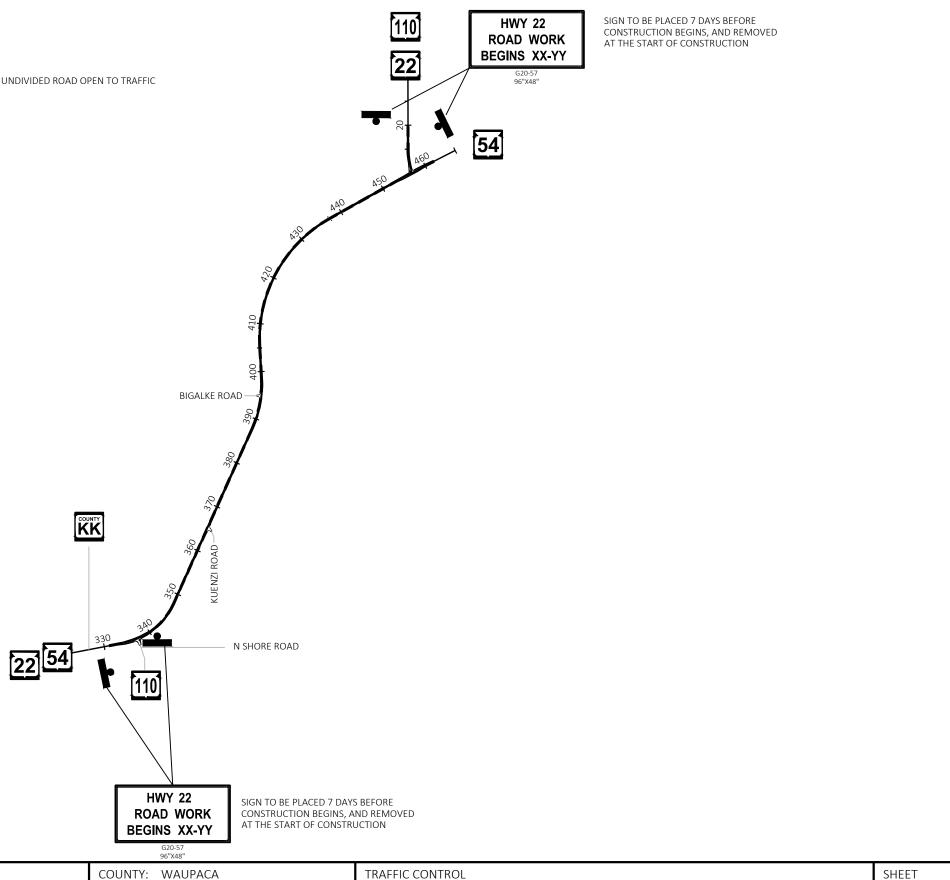




- TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
- MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
- TRAFFIC CONTROL, DROP OFF SIGNING
- TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC

HWY: STH 22

- TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
- TEMPORARY TRAFFIC CONTROL, SIGN MOUNTING
- TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES



Q:\2018 PROJECTS\5018043 - WISDOT NCR_STH 22 DESIGN\CIVIL3D\SHEETSPLAN\025001_TC.DWG LAYOUT NAME - 01 FILE NAME :

6220-00-72

PROJECT NO:

1/20/2020 8:41 AM

PLOT BY: PATRICK SMITH

PLOT NAME :

PLOT SCALE :

1 IN:2000 FT

Ε

					6220-00-72
Line	Item	Item Description	Unit	Total	Qty
0002	204.0115	Removing Asphaltic Surface Butt Joints	SY	208.000	208.000
0004	204.0120	Removing Asphaltic Surface Milling	SY	54,079.000	54,079.000
0006	204.0185	Removing Masonry	CY	4.000	4.000
8000	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 6220-00-72	LS	1.000	1.000
0010	213.0100	Finishing Roadway (project) 01. 6220-00-72	EACH	1.000	1.000
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,500.000	2,500.000
0014	455.0605	Tack Coat	GAL	3,786.000	3,786.000
0016	460.2000	Incentive Density HMA Pavement	DOL	3,800.000	3,800.000
0018	460.6224	HMA Pavement 4 MT 58-28 S	TON	5,925.000	5,925.000
0020	465.0110	Asphaltic Surface Patching	TON	593.000	593.000
0022	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	11,551.000	11,551.000
0024	504.0900	Concrete Masonry Endwalls	CY	4.000	4.000
0026	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6220-00-72	EACH	1.000	1.000
0028	619.1000	Mobilization	EACH	1.000	1.000
0030	624.0100	Water	MGAL	36.000	36.000
0032	625.0100	Topsoil	SY	114.000	114.000
0034	628.1504	Silt Fence	LF	150.000	150.000
0036	628.1520	Silt Fence Maintenance	LF	150.000	150.000
0038	628.2002	Erosion Mat Class I Type A	SY	114.000	114.000
0040	629.0210	Fertilizer Type B	CWT	0.100	0.100
0042	630.0160	Seeding Mixture No. 60	LB	3.000	3.000
0044	630.0500	Seed Water	MGAL	2.600	2.600
0046	643.0900	Traffic Control Signs	DAY	538.000	538.000
0048	643.5000	Traffic Control	EACH	1.000	1.000
0050	646.1020	Marking Line Epoxy 4-Inch	LF	24,399.000	24,399.000
0052	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	27,363.000	27,363.000
0054	646.3020	Marking Line Epoxy 8-Inch	LF	469.000	469.000
0056	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	24,399.000	24,399.000
0058	646.6120	Marking Stop Line Epoxy 18-Inch	LF	72.000	72.000
0060	648.0100	Locating No-Passing Zones	MI	2.700	2.700
		•			
0062	649.0105	Temporary Marking Line Paint 4-Inch	LF	23,981.000	23,981.000
0064	650.8000	Construction Staking Resurfacing Reference	LF	14,026.000	14,026.000
0066	650.9910	Construction Staking Supplemental Control (project) 01. 6220-00-72		1.000	1.000
0068	740.0440	Incentive IRI Ride	DOL	10,625.000	10,625.000
0070	SPV.0180	Special 01. Removing Distressed Pavement Milling	SY	3,740.000	3,740.000

204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS

STATION	LOCATION	SY
331+00	STH 22, BEGIN PROJECT	33
337+13	STH 110 SOUTH	44
364+77	KUENZI ROAD	27
394+88	BIGALKE ROAD	27
462+07	STH 54 EAST, END PROJECT	33
19'W'+19	STH 110 NORTH, END PROJECT	44
	TOTAL:	208

211.0100 PREPARATION OF FOUNDATION FOR ASPHALTIC SURFACE

LOCATION	LS
STH 22 / PROJECT 01. 6220-00-72	1
TOTAL:	1

305.0110 BASE AGGREGATE DENSE 3/4-INCH

					WATER
LOCATION	STATION	TO	STATION	TON	MGAL
STH 22 NORTHBOUND	331+00	-	462+07	1,133	17
STH 22 SOUTHBOUND	331+00	-	462+07	1,133	17
STH 22/110 NORTHBOUND	10'W'+50	-	19'W'+19	75	1
STH 22/110 SOUTHBOUND	10'W'+50	-	19'W'+19	75	1
UNDISTRIBUTED	-	-	-	84	<u>-</u>
			TOTAL:	2,500	36

624.0100

204.0120 REMOVING ASPHALTIC SURFACE MILLING

LOCATION	STATION	TO	STATION	SY
STH 22 NORTHBOUND	331+00	-	462+07	21,845
STH 22 SOUTHBOUND	331+00	-	462+07	21,845
STH 22 NORTHBOUND RIGHT TURN LANE	332+74	-	336+26	302
STH 110 SOUTH	336+26	-	338+43	1,039
STH 22 SOUTHBOUND BYPASS LANE	334+07	-	340+29	561
KUENZI ROAD	363+29	-	366+45	782
BIGALKE ROAD	393+66	-	396+84	536
STH 22 NORTHBOUND BYPASS LANE	453+30	-	459+53	641
STH 22/110/54	455+39	-	457+52	544
STH 54 SOUTHBOUND RIGHT TURN LANE	457+52	-	462+07	402
STH 22/110 NORTHBOUND	10'W'+72	-	19'W'+19	1,524
STH 22/110 SOUTHBOUND	10'W'+72	-	19'W'+19	1,729
3" SAFETY EDGE, STH 22 RT/LT	331+00	-	462+07	728
CENTERLINE JOINT, STH 22	331+00	-	462+07	1,456
3" SAFETY EDGE RT/LT, STH 22/110	10'W'+50	-	19'W'+19	48
CENTERLINE JOINT, STH 22/110	10'W'+50	-	19'W'+20	97
			TOTAL:	54,079

HMA PAVEMENT ITEMS

455.0605 460.6224

				TACK COAT	4 MT 58-28 S
LOCATION	STATION	TO	STATION	GAL	TON
STH 22 NORTHBOUND	331+00	-	462+07	1,529	2,450
STH 22 SOUTHBOUND	331+00	-	462+07	1,529	2,450
STH 22 NORTHBOUND RIGHT TURN LANE	332+74	-	336+26	21	30
STH 110 SOUTH	336+26	-	338+43	73	120
STH 22 SOUTHBOUND BYPASS LANE	334+07	-	340+29	39	60
KUENZI ROAD	363+29	-	366+45	55	90
BIGALKE ROAD	393+66	-	396+84	38	60
STH 22 NORTHBOUND BYPASS LANE	453+30	-	459+53	45	70
STH 22/110/54	455+39	-	457+52	38	60
STH 54 SOUTHBOUND RIGHT TURN LANE	457+52	-	462+07	28	40
STH 22/110 NORTHBOUND	10'W'+72	-	19'W'+19	107	170
STH 22/110 SOUTHBOUND	10'W'+72	-	19'W'+19	121	190
3" SAFETY EDGE, STH 22 RT/LT	331+00	-	462+07	51	40
CENTERLINE JOINT, STH 22	331+00	-	462+07	102	80
3" SAFETY EDGE RT/LT, STH 22/110	10'W'+50	-	19'W'+19	3	5
CENTERLINE JOINT, STH 22/110	10'W'+50	-	19'W'+19	7	10
			TOTAL:	3,786	5,925

PROJECT NO: 6220-00-72 HWY: STH 22 COUNTY: WAUPACA MISCELLANEOUS QUANTITIES SHEET **E**

465.0110 ASPHALTIC SURFACE PATCHING

LOCATION	TON
MISCELLANEOUS, AS-NEEDED	593
	593

465.0475 ASPHALTIC SURFACE CENTERLINE RUMBLE STRIP 2-LANE RURAL

	STATION	TO	STATION	LOCATION	LF
	331+00	-	462+07	STH 22	10,907
_	10'W'+50	-	19'W'+19	STH 22/110	644
				TOTAL:	11,551

PAVEMENT MARKING ITEMS

				646	.1020	646.	1040	646.3020	646.4520	646.6120	649.0105
							GROOVED				
						GROOVED	WET REF				
					EPOXY	WET REF	EPOXY		SAME DAY	STOP LINE	TEMPORARY
				EPOXY	4-INCH	EPOXY	4-INCH	EPOXY	EPOXY	EPOXY	PAINT
				4-INCH	12.5' SKIPS	4-INCH	12.5' SKIPS	8-INCH	4-INCH	18-INCH	4-INCH
				(YELLOW)	(YELLOW)	(WHITE)	(WHITE)	(WHITE)	(YELLOW)	(WHITE)	(YELLOW)
STATION	TO	STATION	LOCATION	LF	LF	LF	LF	LF	LF	LF	LF
331+00	-	462+07	STH 22 CENTERLINE	19,285	1,160	-	=	-	20,445	-	20,027
331+00	-	462+07	STH 22 NB	-	-	12,870	84	216	-	36	-
331+00	-	462+07	STH 22 SB	-	-	12,621	70	203	-	-	-
10'W'+00	-	19'W'+19	STH 22/110 CENTERLINE	3,954	-	-	-	-	3,954	-	3,954
10'W'+00	-	19'W'+19	STH 22/110 NB	-	-	831	-	-	-	-	-
10'W'+00	-	19'W'+19	STH 22/110 SB	-	-	887	=	50	-	36	-
			SUBTOTAL:	23,239	1,160	27,209	154	469	24,399	72	23,981
			TOTAL:	24	,399	27.	363	469	24,399	72	23,981

ENDWALL REPLACEMENT

		204.0185	504.0900
			CONCRETE
		REMOVING	MASONRY
		MASONRY	ENDWALLS
STATION	LOCATION	CY	CY
437+21	STH 22, 50' LT	2	2
437+21	STH 22, 55' RT	2	2
	TOTAL:	4	1

TRAFFIC CONTROL ITEMS

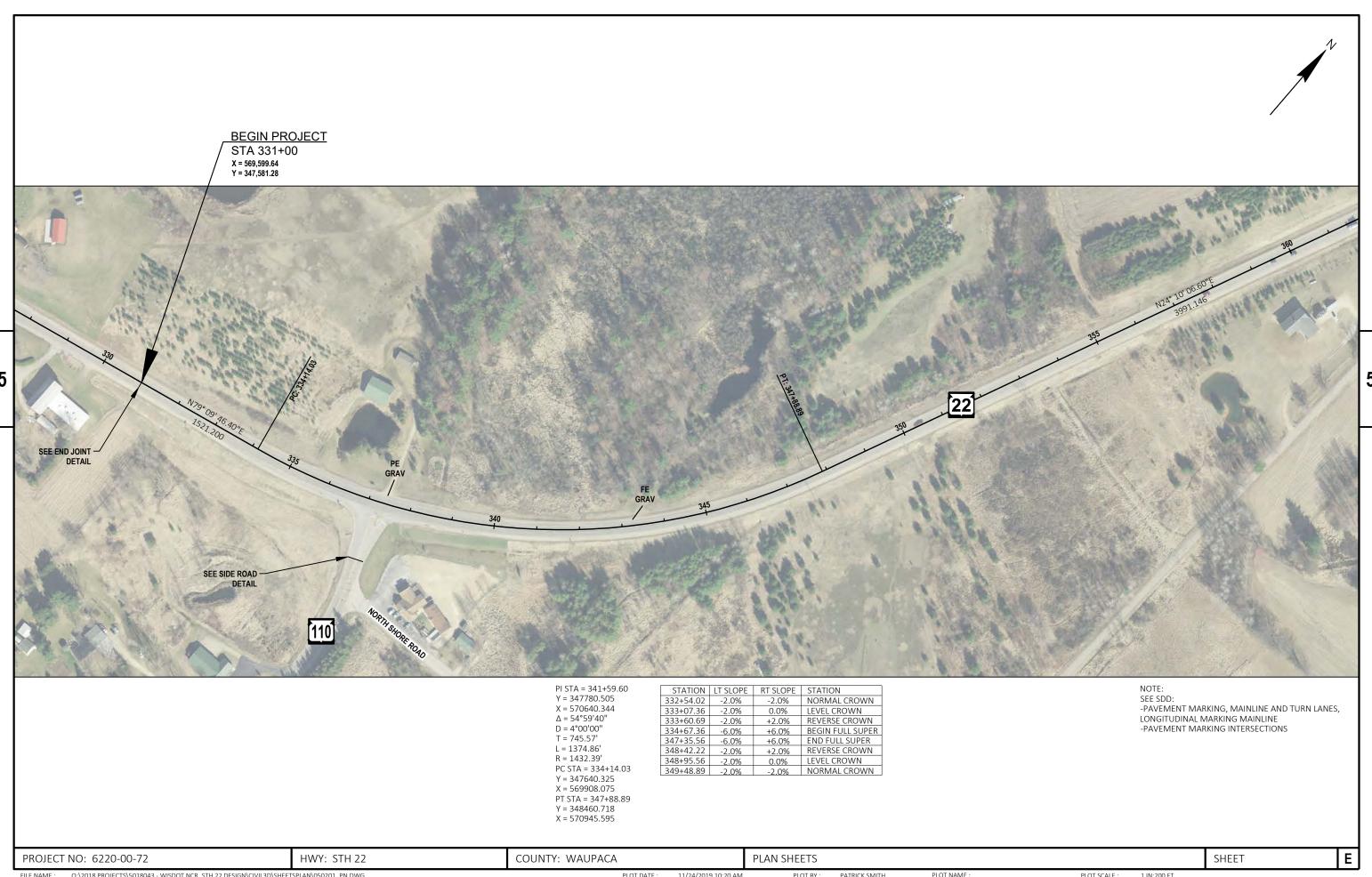
	643.0900	643.5000
		TRAFFIC
	SIGNS	CONTROL
LOCATION	DAYS	EACH
STH 22 - FIXED MESSAGE SIGNS	28	-
STH 22 - ADVANCE WARNING SIGNS	442	-
STH 22 - DROP OFF SIGNING	68	-
STH 22 - PROJECT	-	1
TOTAL:	538	1

648.0100 LOCATING NO-PASSING ZONES

STATION	TO	STATION	LOCATION	MI
331+00	-	462+07	STH 22	2.5
10'W'+50	-	19'W'+19	STH 22/110	0.2
			TOTAL	2.7

PROJECT NO: 6220-00-72 HWY: STH 22 COUNTY: WAUPACA MISCELLANEOUS QUANTITIES SHEET **E**

STATION 331+00 10'W'+00					CONSTRUCTION	ON STAKING SUPPLEMEN	ITAL CONTROL	<u>RE</u>	MOVING DIS	TRESSED PAVEN	IENT MILLING	<u>ì</u>	
		7 STH 22	LF 13,107 919 14,026	_	CATEGORY 0010	LOCATION STH 22 - PROJECT TOTAL:	1 1	STATION TO STATI 331+00 - 462+ 10'W'+00 - 19'W'	07	LOCA STH 22, UNDISTRIE H 22/110, UNDISTF TO1	BUTED/AS-NEED RIBUTED/AS-NEE		SY 3,495 245 3,740
		<u>ENDWALL E</u>	ROSION CO	<u>ONTROL</u>					ENDWALL RE	STORATION			
	STATION 437+21 437+21	LOCATION STH 22, 50' LT, AS-I STH 22, 55' RT, AS-I	NEEDED	628.1504 SILT FENCE LF 150 -	628.1520 SILT FENCE MAINTENANCE LF 150		<u>STATION</u> 437+21	LOCATION STH 22, 50' LT, AS-NEEDED	625.0100 TOPSOIL SY 57	628.2002 EROSION MAT CLASS I TYPE A SY 57	629.0210 FERTILIZER TYPE B CWT 0.05	630.0160 SEEDING MIXTURE NO. 60 LB	630.0500 SEED WATER MGAL 1.3
•		TOTAL:		150	150		437+21	STH 22, 55' RT, AS-NEEDED TOTAL:	57 114	57 114	0.05 0.10	1.5 3.0	1.3 2.6



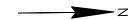
FILE NAME: Q:\2018 PROJECTS\5018043 - WISDOT NCR_STH 22 DESIGN\CIVIL3D\SHEETSPLAN\\050201_PN.DWG PLOT DATE: 11/24/2019 10:20 AM PLOT BY: PATRICK SMITH PLOT NAME: PLOT NAME: 1 IN:200 FT WISDOT/CADDS SHEET 44 USDOT/CADDS SHEET 44





NOTE:
SEE SDD:
-PAVEMENT MARKING, MAINLINE AND TURN LANES,
LONGITUDINAL MARKING MAINLINE
-PAVEMENT MARKING INTERSECTIONS

COUNTY: WAUPACA SHEET PROJECT NO: 6220-00-72 HWY: STH 22 PLAN SHEETS Q:\2018 PROJECTS\5018043 - WISDOT NCR_STH 22 DESIGN\CIVIL3D\SHEETSPLAN\050201_PN.DWG LAYOUT NAME - 02 PLOT DATE : 11/24/2019 10:20 AM PLOT BY: PATRICK SMITH PLOT NAME : PLOT SCALE : 1 IN:200 FT WISDOT/CADDS SHEET 44





X = 572809.619 Δ = 27°32'28" D = 2°30'00" T = 561.68'

L = 1101.64' R = 2291.84'

Y = 352614.466

PC STA = 387+80.03 Y = 352102.021 X = 572579.656

PT STA = 398+81.68 Y = 353175.172 X = 572776.577

STATION LT SLOPE RT SLOPE STATION -2.0% NORMAL CROWN 386+36.03 -2.0% 386+89.36 -2.0% 0.0% LEVEL CROWN +2.0% REVERSE CROWN 387+42.69 -2.0% +5.1% BEGIN FULL SUPER +5.1% END FULL SUPER 388+25.36 -5.1% 398+36.35 -5.1% 399+19.01 -2.0% +2.0% REVERSE CROWN 399+72.35 -2.0% 0.0% LEVEL CROWN 400+25.68 -2.0% -2.0% NORMAL CROWN

STATION LT SLOPE | RT SLOPE | STATION -2.0% NORMAL CROWN 403+88.98 -2.0% 404+42.31 -2.0% LEVEL CROWN +2.0% -2.0% REVERSE CROWN -4.5% BEGIN FULL SUPER -4.5% END FULL SUPER 405+62.31 +4.5% 436+91.10 +4.5% -2.0% REVERSE CROWN 427+57.77 +2.0% -2.0% LEVEL CROWN -2.0% NORMAL CROWN 438+11.10 0.0% 438+64.43 -2.0%

PI STA = 423+18.55 Y = 355607.824

X = 572633.223

Δ = 64°10'33"

D = 2°00'00" T = 1796.23' L = 3208.78'

R = 2864.78' PC STA = 405+22.32 Y = 353814.706

X = 572738.890 PT STA = 437+31.10 Y = 356484.042

X = 574201.241

-PAVEMENT MARKING, MAINLINE AND TURN LANES,

LONGITUDINAL MARKING MAINLINE
-PAVEMENT MARKING INTERSECTIONS

PLAN SHEETS PROJECT NO: 6220-00-72 HWY: STH 22 COUNTY: WAUPACA SHEET

Q:\2018 PROJECTS\5018043 - WISDOT NCR_STH 22 DESIGN\CIVIL3D\SHEETSPLAN\050201_PN.DWG FILE NAME :

PLOT DATE : 11/24/2019 10:21 AM PLOT BY:

PATRICK SMITH

PLOT NAME :

PLOT SCALE : 1 IN:200 FT

Ε

PI STA = 423+18.55

Y = 355607.824

X = 572633.223 Δ = 64°10'33"

D = 2°00'00" T = 1796.23'

L = 3208.78' R = 2864.78'

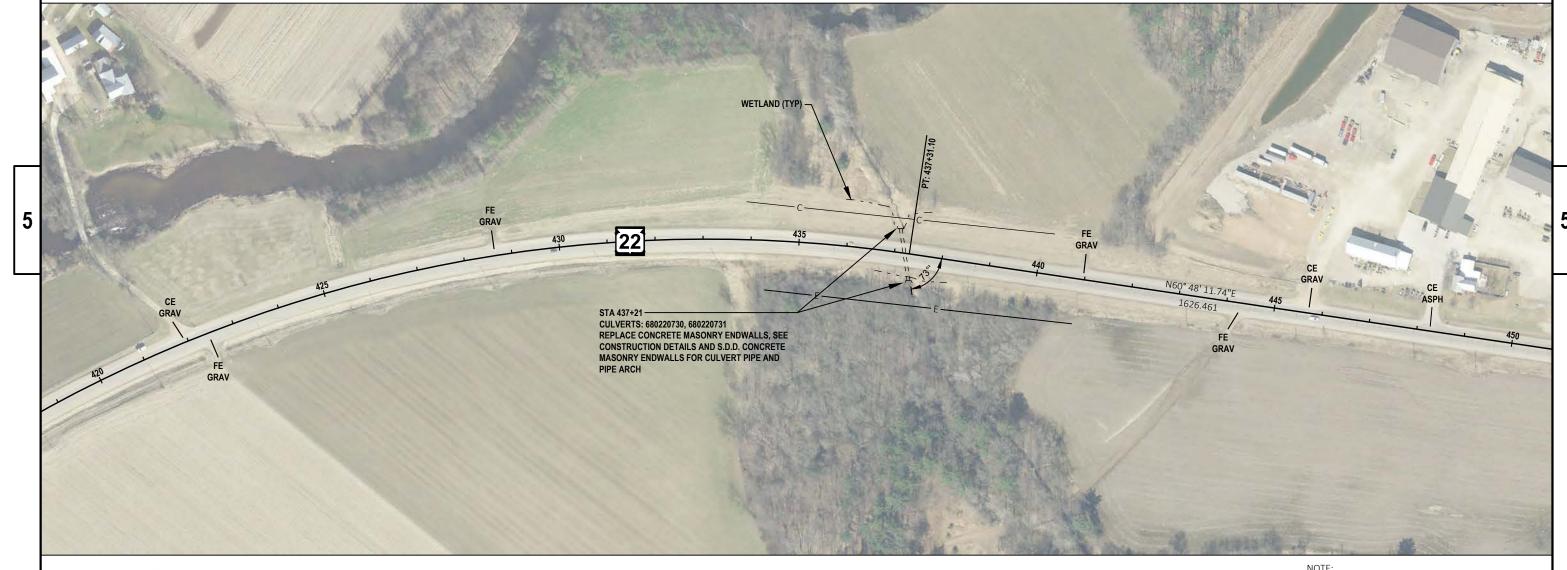
PC STA = 405+22.32 Y = 353814.706

X = 572738.890 PT STA = 437+31.10

Y = 356484.042 X = 574201.241

STATION LT SLOPE RT SLOPE STATION
403+88.98 -2.0% -2.0% NORMAL CROWN 404+42.31 0.0% -2.0% LEVEL CROWN 404+95.65 +2.0% -2.0% REVERSE CROWN -4.5% BEGIN FULL SUPER REVERSE CROWN 405+62.31 +4.5% 436+91.10 +4.5% 427+57.77 +2.0% 438+11.10 0.0% -4.5% END FULL SUPER -2.0% REVERSE CROWN -2.0% LEVEL CROWN 438+64.43 -2.0% NORMAL CROWN

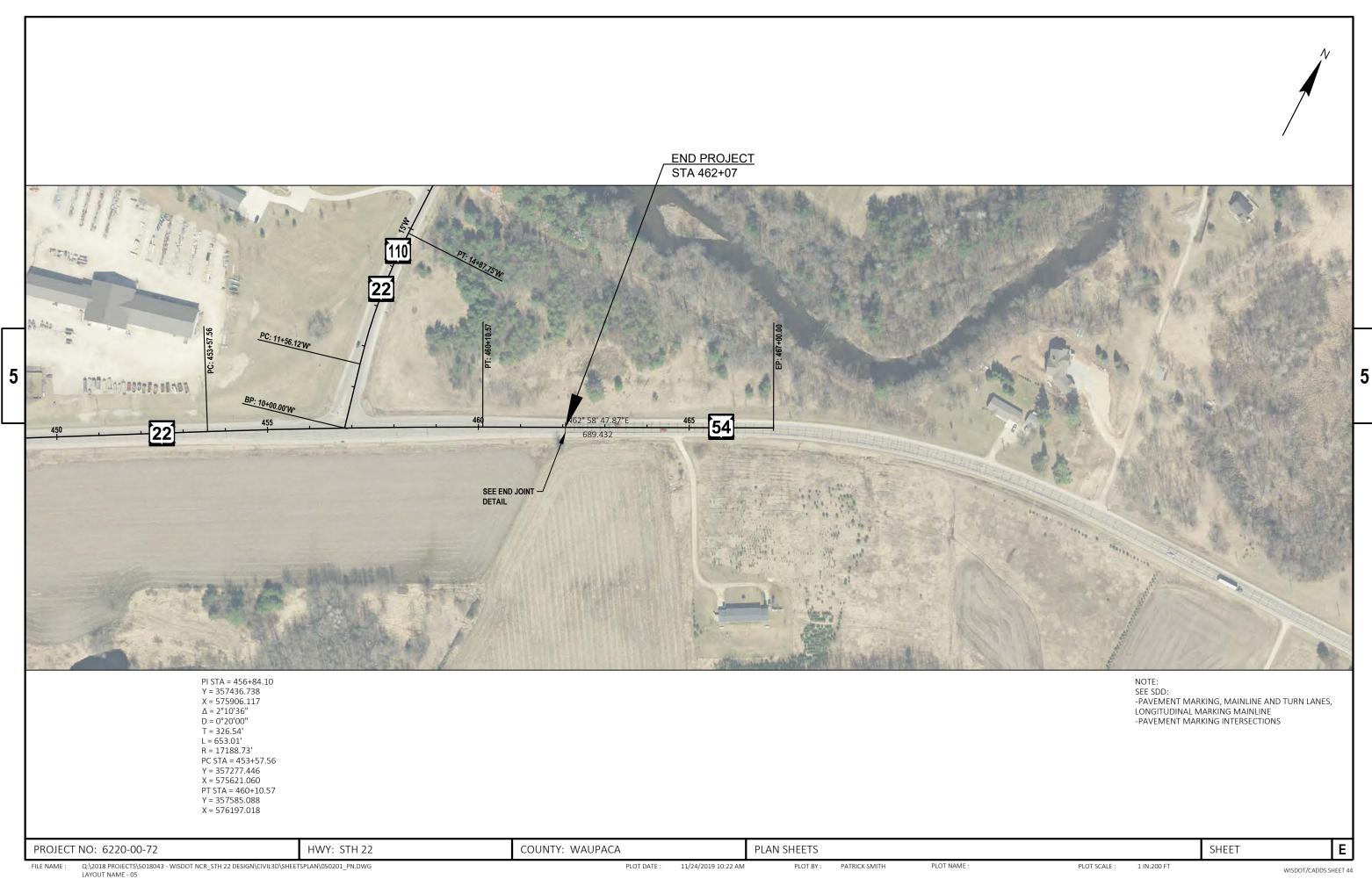


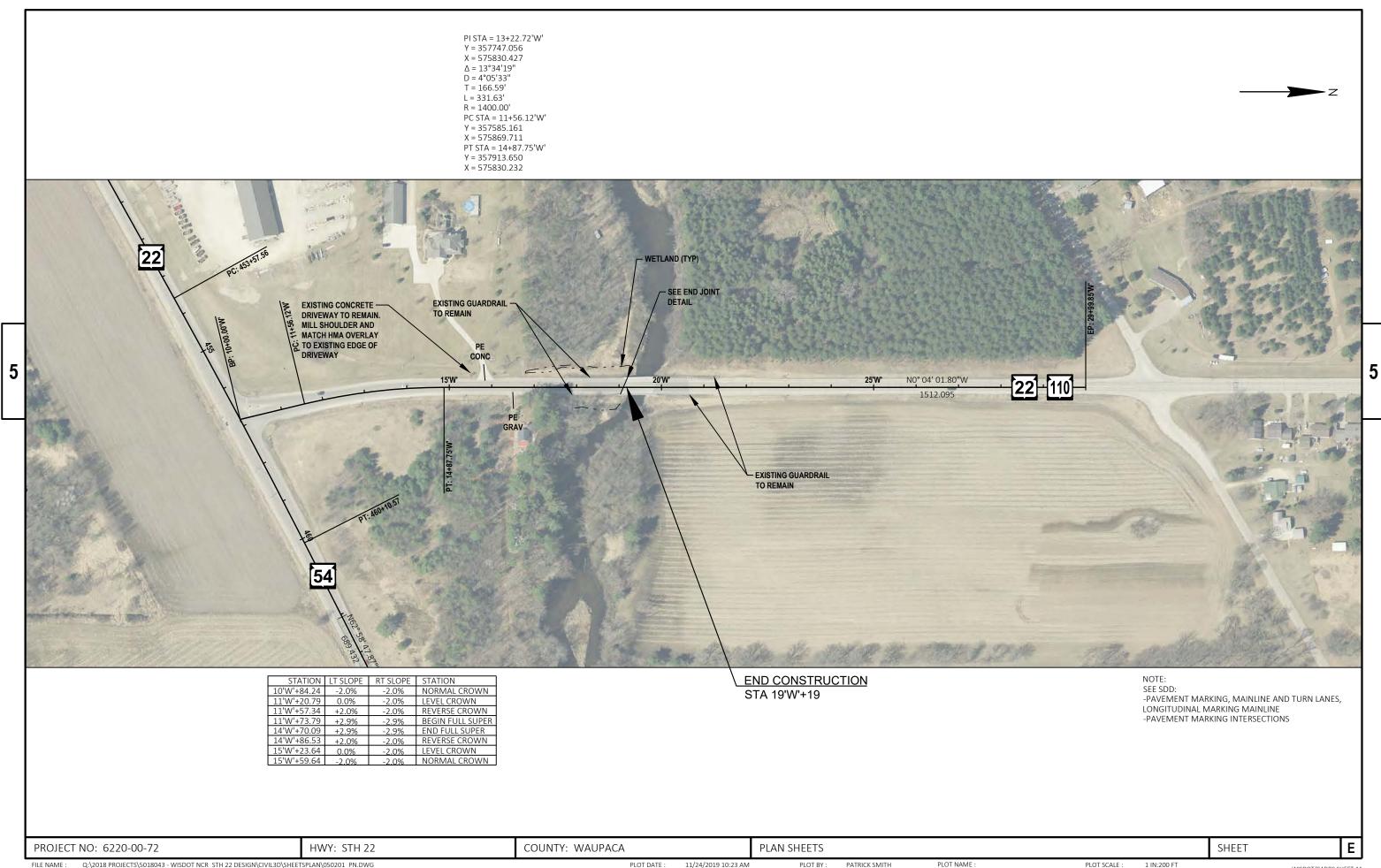


SEE SDD:

-PAVEMENT MARKING, MAINLINE AND TURN LANES, LONGITUDINAL MARKING MAINLINE -PAVEMENT MARKING INTERSECTIONS

Ε PROJECT NO: 6220-00-72 HWY: STH 22 COUNTY: WAUPACA PLAN SHEETS SHEET Q:\2018 PROJECTS\5018043 - WISDOT NCR_STH 22 DESIGN\CIVIL3D\SHEETSPLAN\050201_PN.DWG PLOT DATE : PATRICK SMITH PLOT NAME : PLOT SCALE : FILE NAME : 11/24/2019 10:22 AM PLOT BY: 1 IN:200 FT





Q:\2018 PROJECTS\5018043 - WISDOT NCR_STH 22 DESIGN\CIVIL3D\SHEETSPLAN\050201_PN.DWG 11/24/2019 10:23 AM 1 IN:200 FT WISDOT/CADDS SHEET 44

Standard Detail Drawing List

08E09-06	SILT FENCE
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C19-01	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-19A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-01	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

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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IN	LET		OUTLET			
R* X		Υ	R*	Χ	Y	
0 - 7°	30°	30°	0 - 15°	15°	15°	
8 - 22°	25°		16 - 45°	10°		
23 - 37°	20°	=	46 - 75°	5°		
38 - 52°	15°		OVER 75°	0°		
53 - 67°	10°					
68 - 82°	5°	"				
OVER 82°	0°					

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

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.

FILL SLOPES FLATTER THAN 2 $\frac{1}{2}$:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

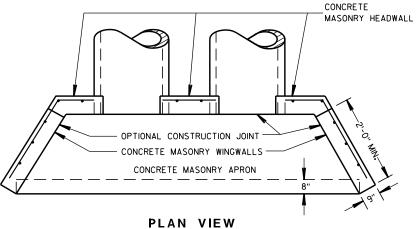
- MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.
- (2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN SPACE

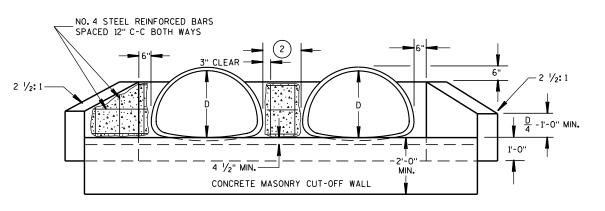
UP TO AND INCLUDING 48" 2'-0"

OVER 48" TO 72" ½ DIA. OR SPAN

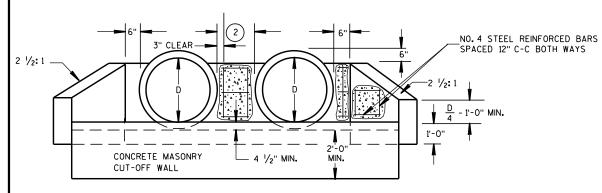
OVER 72" 3'-0"



PLAN VIEW
CULVERT PIPE AND PIPE ARCH

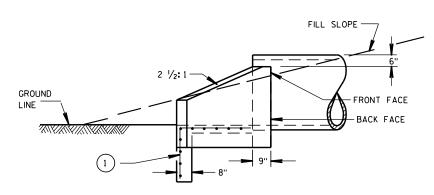


PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH 6

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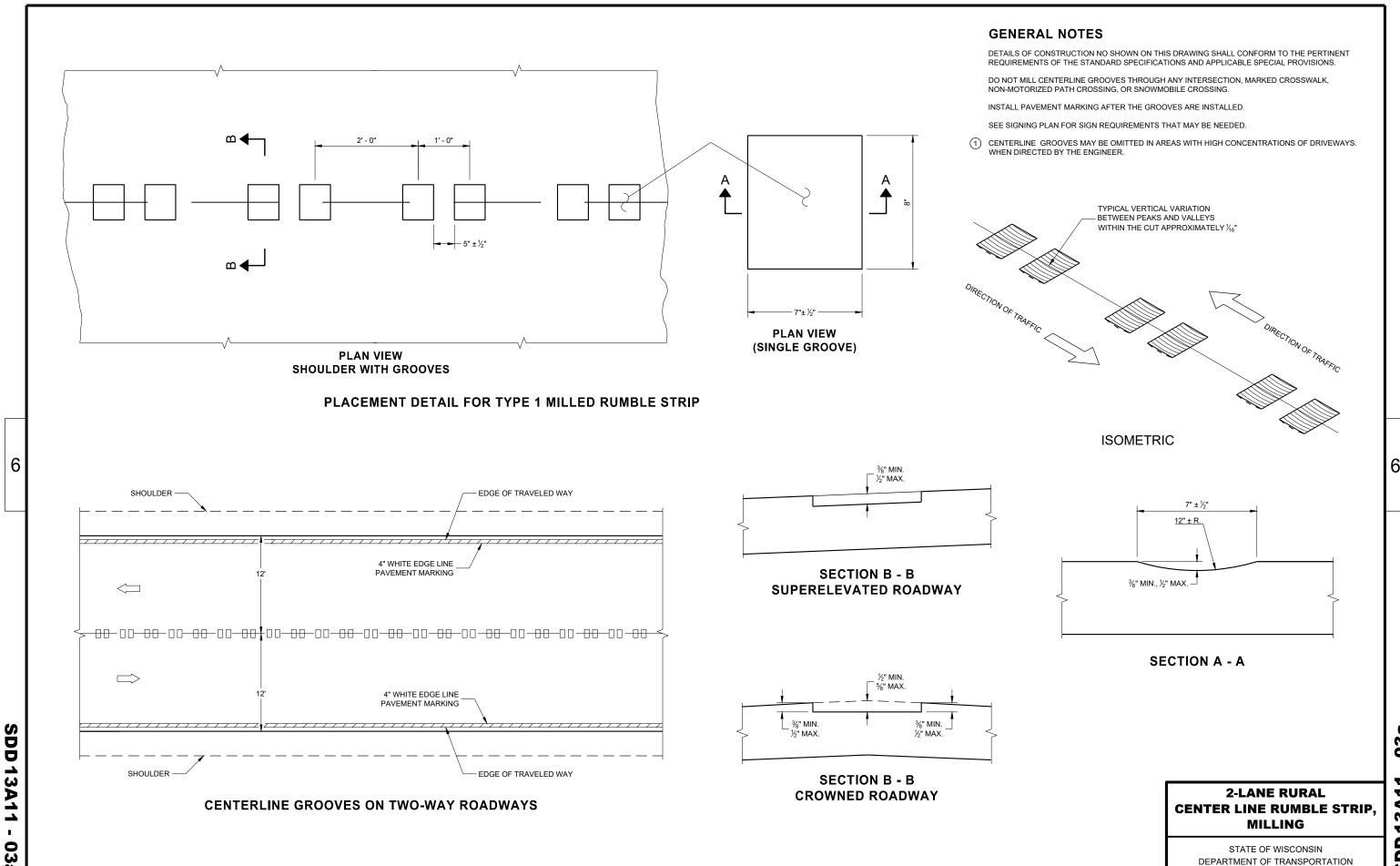
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

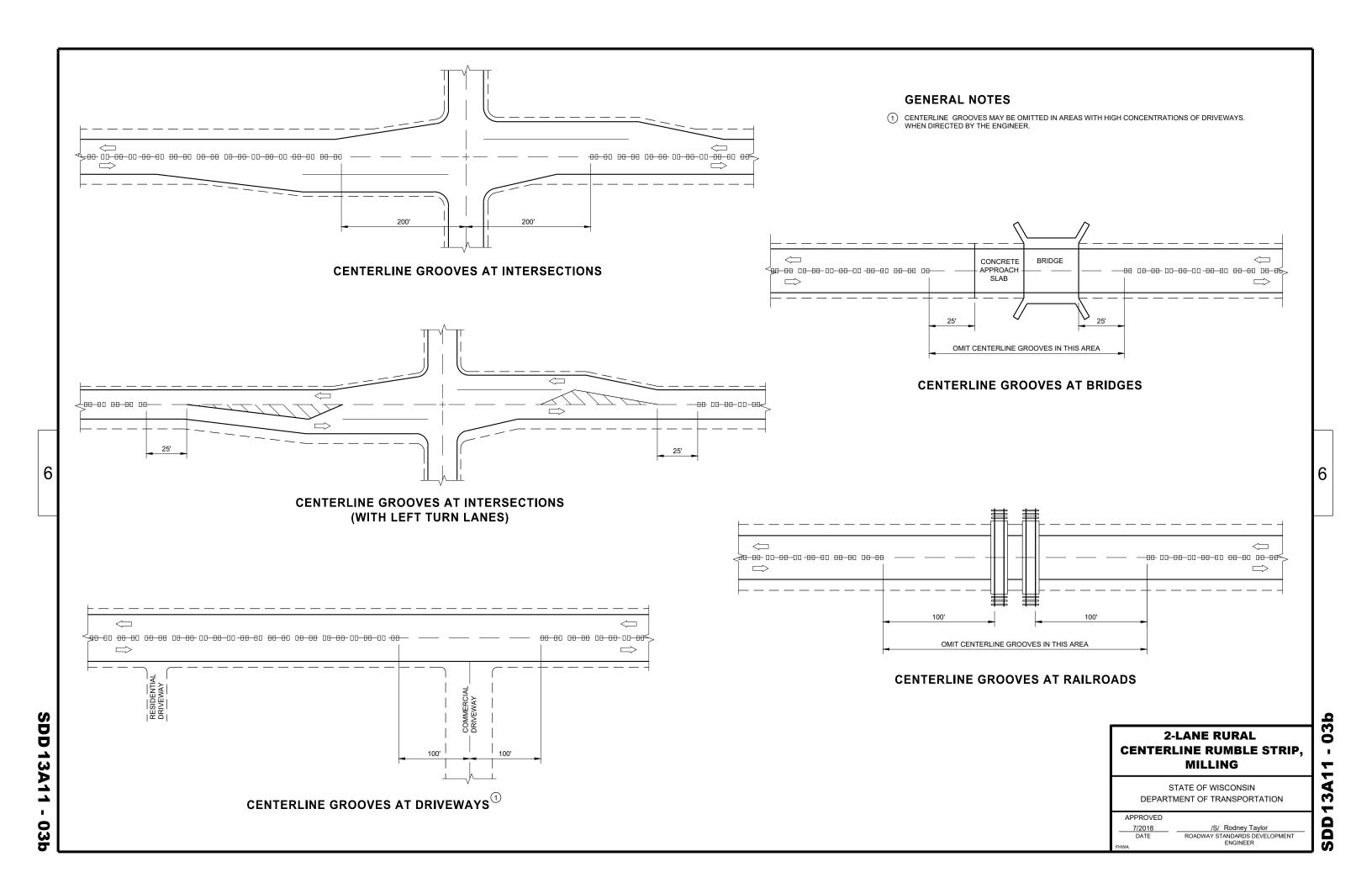
APPROVED

9/14/98 /S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

S.D.D. 8 F 10-1



SDD

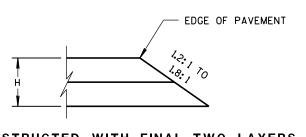


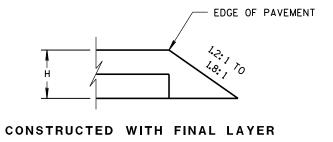
6 13C19 SDD

APPROVED

May 2019 DATE

/S/ Steven Hefel HMA PAVEMENT ENGINEER

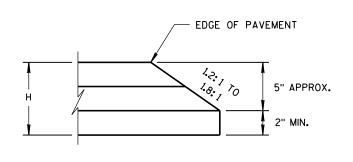


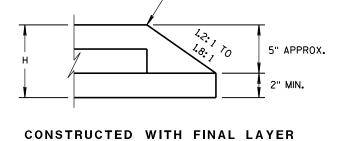


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





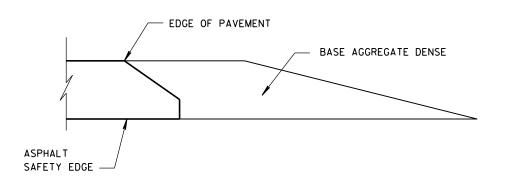
FOR H GREATER THAN 5"

EDGE OF PAVEMENT

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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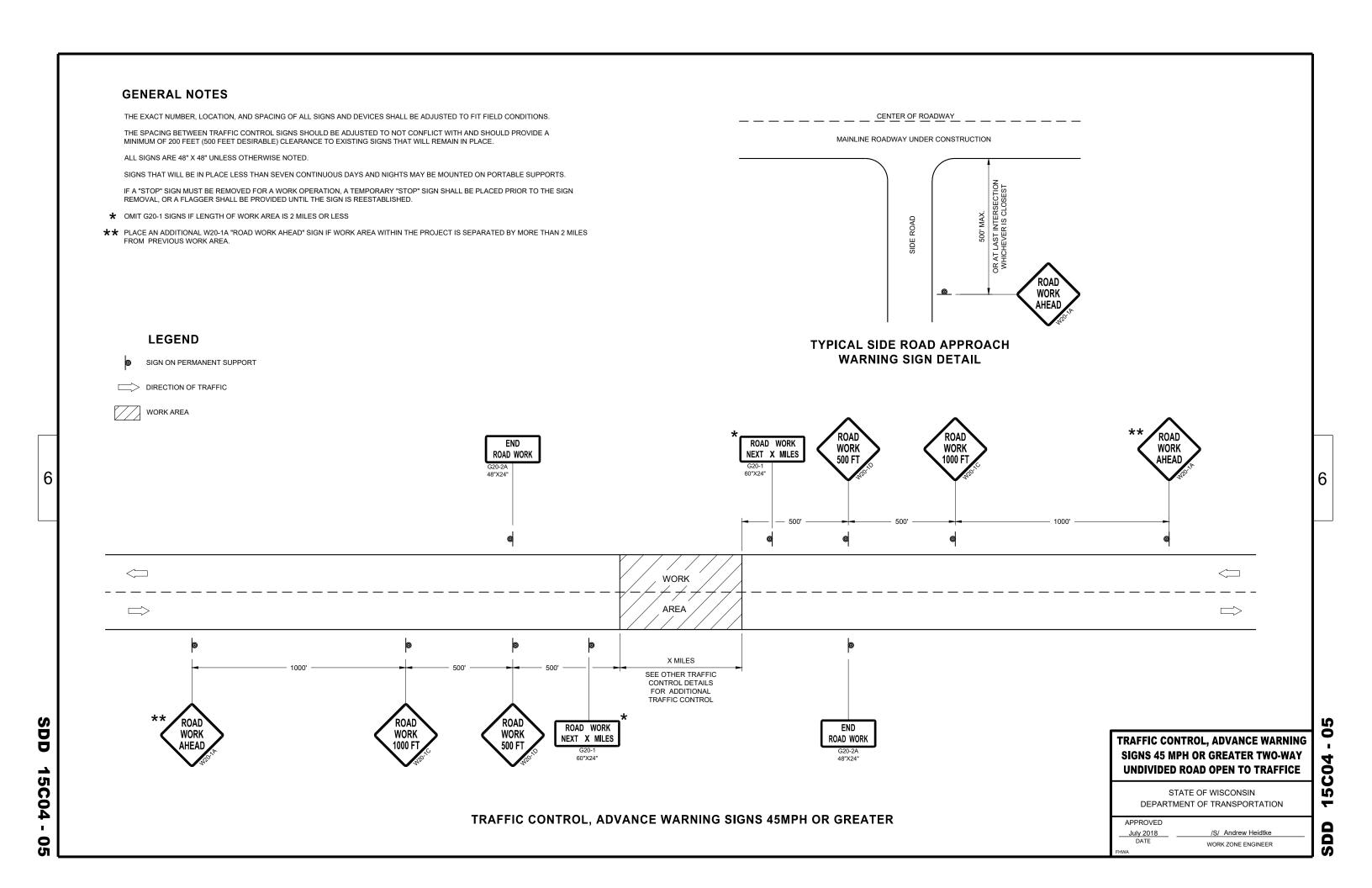
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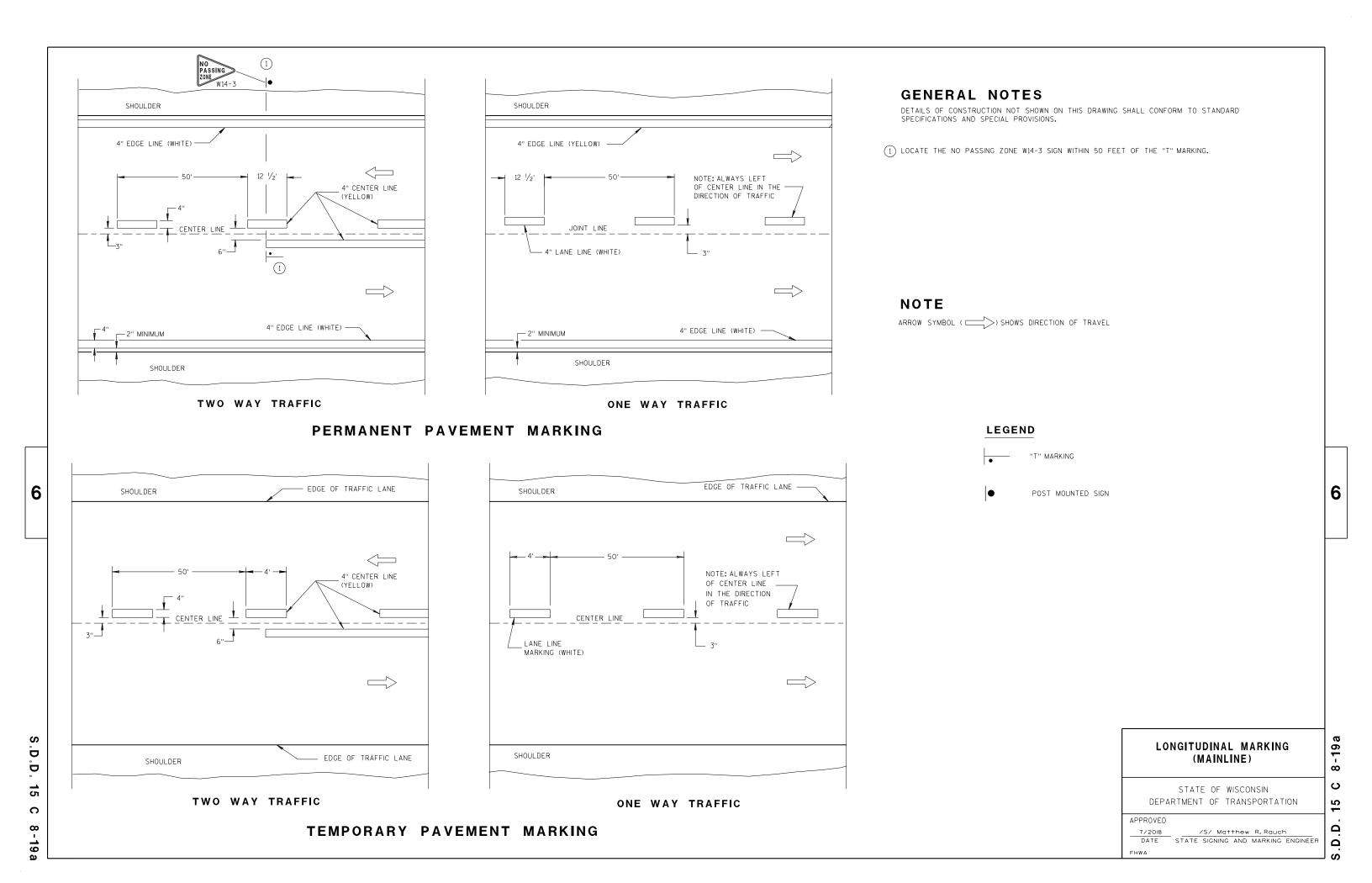
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APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER





RUMBLE

STRIPS

ROAD

WORK

GENERAL NOTES FLAGGING LEGEND FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE SIGN ON PORTABLE OR PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. **SIGN AND TEMPORARY RUMBLE** STRIP ARRAY SPACING TABLE 5' MIN BE SPEED LIMIT SPACING "A" USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A" 35-40 MPH STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS 1 VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

FLAGGING OPERATION STATE OF WISCONSIN

TRAFFIC CONTROL FOR

LANE CLOSURE WITH

2

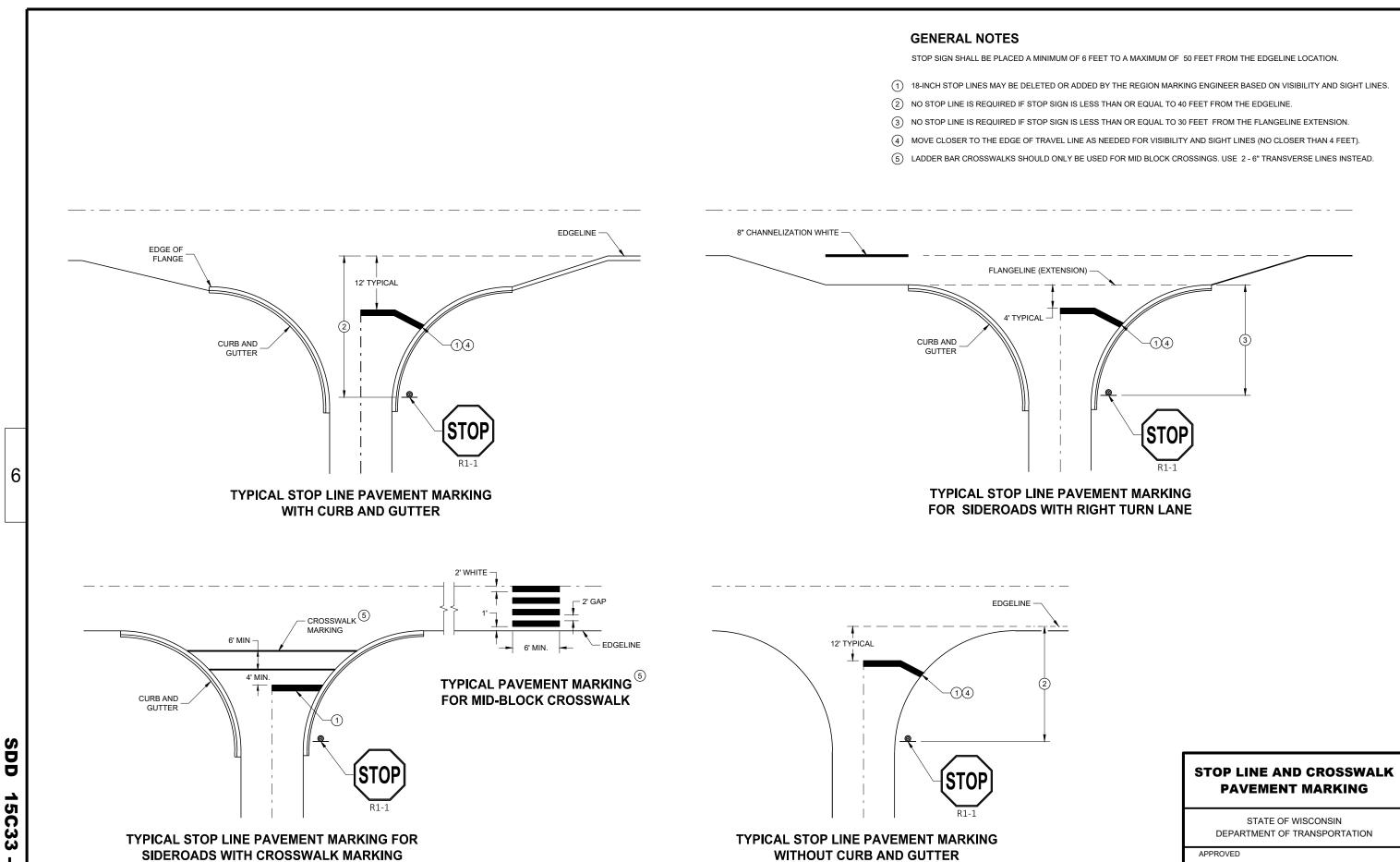
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DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE WORK ZONE ENGINEER

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WORK ZONE ENGINEER

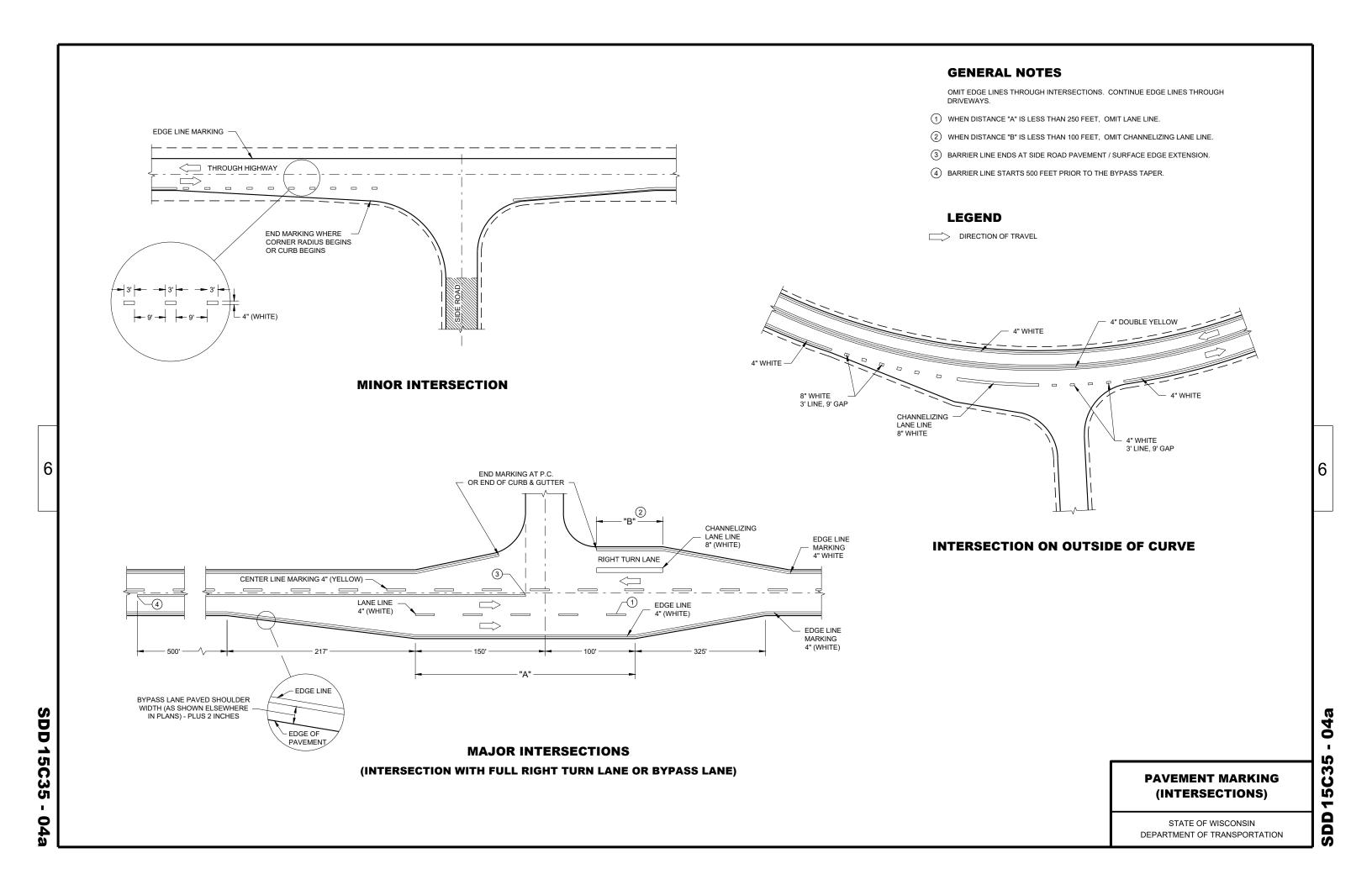


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SDD

/S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

November 2019 DATE





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 REQUIREM	MENTS	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

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- 11/2" DIAMETER HOLES

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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.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

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 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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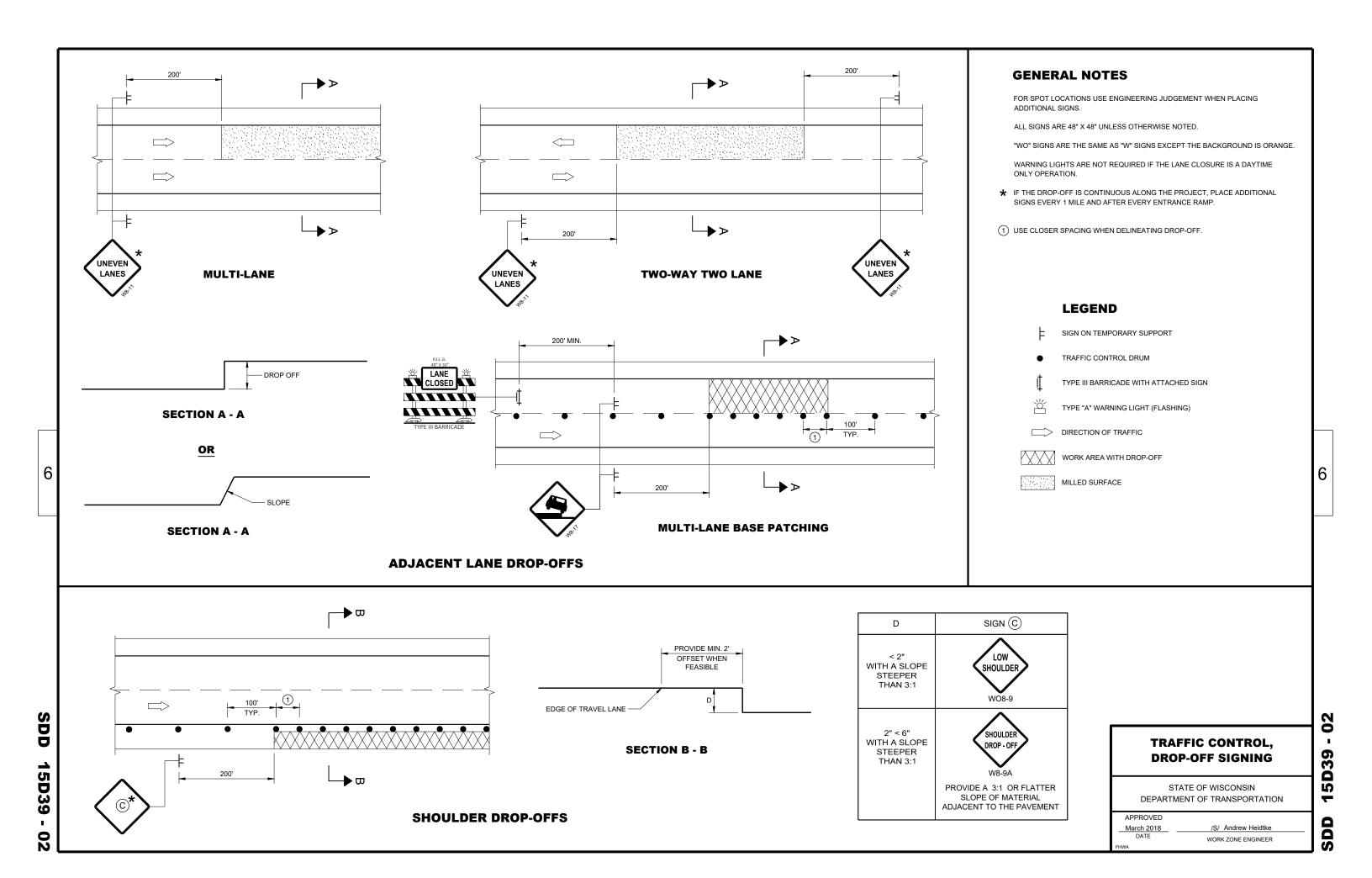
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38-2b



DETAIL FOR SIGNING ON MILLED SURFACES

SDD 15D44 -

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

SEE SDD15C04 FOR ADVANCE WARNING SIGNS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
August 2019	
	-

PAVEMENT

/S/ Andrew Heidtke
WORK ZONE ENGINEER

D

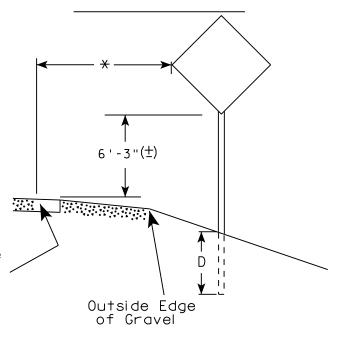
urban area

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

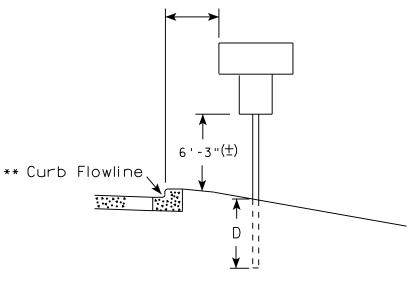
** Curb Flowline

D | White Edgeline Location

RURAL AREA (See Note 2)



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



White Edgeline
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.

* 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.

GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or 6'-3" (\pm) depending upon existence of a sub-sign.
- 4. J-Assemblies are considered to be one sign for mounting height.
- 5. Minimum mounting height for signs mounted on traffic signal poles is $5'-3''(\pm)$.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (\pm) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.
- 9. 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), 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" (±).

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

SHEET NO:

PROJECT NO: HWY: COUNTY:



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

WISDOT/CADDS SHEET 42

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 DIAMONE (TWO POSTS REQUIRED)										
	L	E									
***	Greater than 48" Less than 60"	12"									
	60" to 108"	L/5									

HWY:

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

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT 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:



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

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Nather R Raw
For State Traffic Engineer

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

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

PLOT DATE . 11-416-2016 11:35

PINT RY * \$\$ nintuser \$\$

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

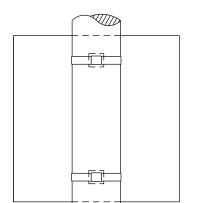
DATE 2/05/15

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

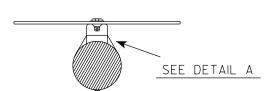
For State Traffic Engineer

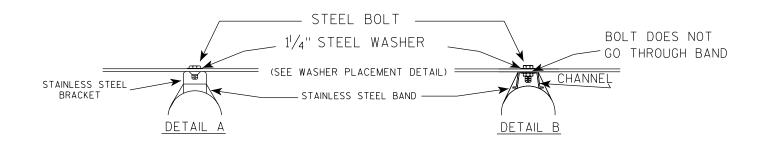


BANDING

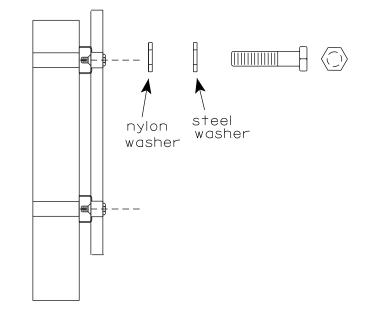


SINGLE SIGN





WASHER PLACEMENT



HWY:

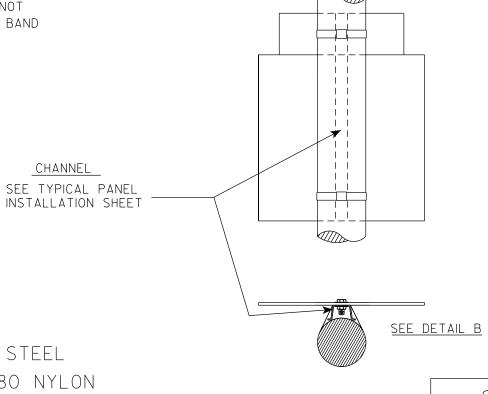
WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

GENERAL NOTES

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

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

State Traffic Engineer

Ε

APPROVED

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

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

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

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

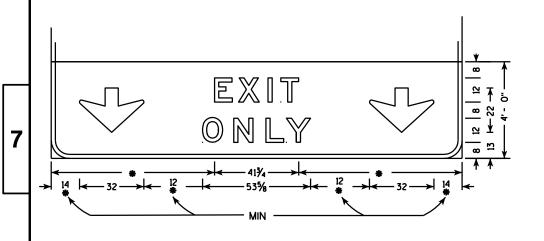
PROJECT NO:

PLOT BY: mscj9h

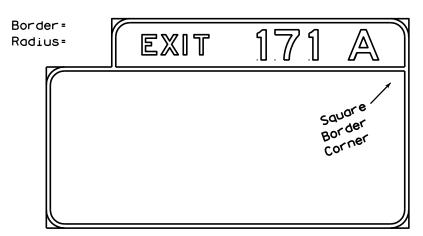
CHANNEL

GENERAL RULES

- 1. The border and radius for each sign shall be determined from the table parameters.
- 2. Every sign detail sheet shall have notes. Refer to the sample for examples.
- 3. Every sign shall have a radius and border size designation.
 Signs with an exit number will require two as shown in the example.
- 4. Exit number panel shall go on right side or left side of sign depending upon a right or left exit situation.
- 5. Overall length of signs is in one foot increments.
- 6. Overall height of signs is in 6 inch increments.

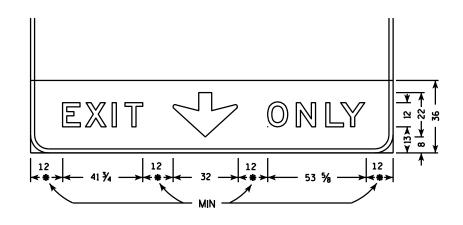


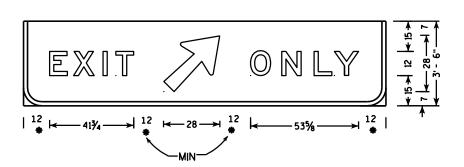
SIGNS WITH EXIT NUMBERS & BORDER - RADIUS NOTES



Border= Radius=

SIGNS WITH EXIT ONLY PANELS





* Adjust spacing to achieve proper balance

BORDER-RADIUS TABLE

BORDER

60 - 150 sq. ft. = 2" Border 0ver 150 sq. ft. = 3" Border

CORNER RADIUS

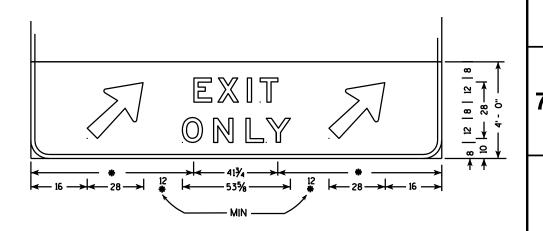
6' - 8' High = 9" Radius Over 8' High = 12" Radius

NOTES

- 1. All Signs are Type I Type SH Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Green Message - White

- 3. Message Series E
- **4.** Exit Only panel is Black non-reflective message on a Type F Yellow reflective background.



GENERAL GUIDANCE AND INFORMATION SHEET

WISCONSIN DEPT OF TRANSPORTATION

APPROVED MA // A / A

DATE 8/23/10 PLATE NO. A11-1.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\A111.DGN

PROJECT NO:

NOTES

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

Background - Orange Message - Black

- 3. Message Series D
- 4. Substitute appropriate numeral and adjust spacing to achieve proper balance.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Χ	Υ	Z	Area sq.ft.
1																											
2																											
3	72	36	1 1/8	1/2	5/8	6	5	4	15 5/8	1 5/8	5	9 1/4	21 1/4	3 1/2	1 1/2	23 1/4		29 1/8	1 3/4	3 1/4	28 1/2						18.0
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 %	2 1/4	6	12 1/4	28 1/4	4 3/8	1 5/8	31		39 1/4	2	4	37 1/8						32.0
5				·	·						·	·												·			

COUNTY:

STANDARD SIGN G20-57

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

Matther K Rauch
For State Traffic Engineer

DATE 1/22/19

PLATE NO. G20-57.3

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_G2057.dgn

HWY:

PROJECT NO:

PLOT DATE: 22-JAN-2019 1:46

PLOT BY: mscj9h

PLOT NAME :

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

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Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov