MAY 2019

Section No.

Section No.

Section No.

Section No.

Section No.

Section No.

TOTAL SHEETS = 48

DESIGN DESIGNATION 6420-00-73

CONVENTIONAL SYMBOLS

2019 = 1.800

2039 = 2,000 = 255

> = 60/40 = 13.9%

= 55 MPH

= 445,300

AADT

A.A.D.T.

DESIGN SPEED

CORPORATE LIMITS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

PROPERTY LINE

LOTLINE

D.H.V. D.D.

ORDER OF SHEETS

Typical Sections and Details (Includes Erosion Control)

Estimate of Quantities

Plan and Profile

Cross Sections

Miscellaneous Quantities

Standard Detail Drawings

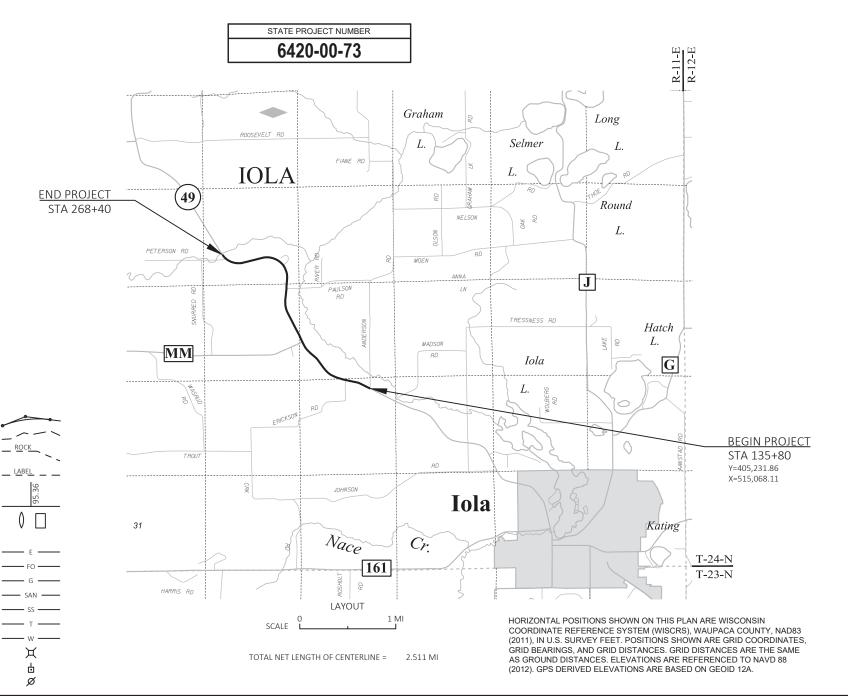
STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

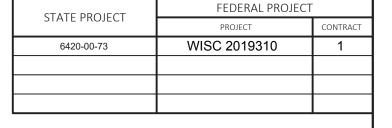
PLAN OF PROPOSED IMPROVEMENT

WAUPACA - NORTHLAND

ANDERSON RD TO PETERSON RD

STH 49 WAUPACA COUNTY







500 North 17th Avenue Wausau, WI 54401 715.845.1081 Fax 715.845.1099



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	EMCS, INC.
Designer	EMCS, INC.
Project Manager	WENDY ARNESON
Regional Examiner	CHERYL SIMON
Regional Supervisor	MIKE KRETSCHMER
negional supervisor	

PROVED FOR THE DEPARTMENT

DATE: 11/14/2018

Ε

GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

FIBER OPTIC

SANITARY SEWER

STORM SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

TELEPHONE

ELECTRIC

GRADE ELEVATION

CULVERT (Profile View)

MARSH OR ROCK PROFILE

(To be noted as such)

GENERAL NOTES

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

MILL AND OVERLAY STRAIGHT THROUGH THE DRIVEWAYS. DO NOT REMOVE EXISTING DRIVEWAY ASPHALT PAVEMENT.

AS-BUILTS USED FOR PLAN DEVELOPMENT

PROJECT NO: 6270-00-72, CONSTRUCTION YEAR: 2002

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW TYPICAL SECTIONS

CONSTRUCTION DETAILS

TRAFFIC CONTROL

UTILITIES

COMMUNICATIONS TDS TELECOM STEVE JAKUBIEC SIEVE JAKUBIEC 10 COLLEGE AVE., SUITE 218A APPLETON, WI 54911 PHONE: (920) 882-4166 MOBILE: (920) 562-7221 STEVE.JAKUBIEC@TDSTELECOM.COM

ELECTRIC
CENTRAL WISCONSIN ELECTRIC COOPERATIVE
DENNIS MAGEE
10401 LYSTUL ROAD
ROSHOLT, WI 54473
PHONE: (715) 677-2211
DENNIS.MAGEE@CWECOOP.COM



OTHER CONTACTS

DNR LIAISON CASEY JONES DNR WISCONSIN RAPIDS SERVICE CENTER 473 GRIFFITH DRIVE WISCONSIN RAPIDS, WI 54494 (715) 421-7867 CASEY.JONES@WISCONSIN.GOV

Ε PROJECT NO:6420-00-73 HWY:STH 49 COUNTY: WAUPACA **GENERAL NOTES** SHEET

P:\50XX\5079.DP.18.STH49.WAU\CADDS\64200073\SHEETSPLAN\020101-GN.DWG LAYOUT NAME - 020101-gn

FILE NAME :

PLOT DATE :

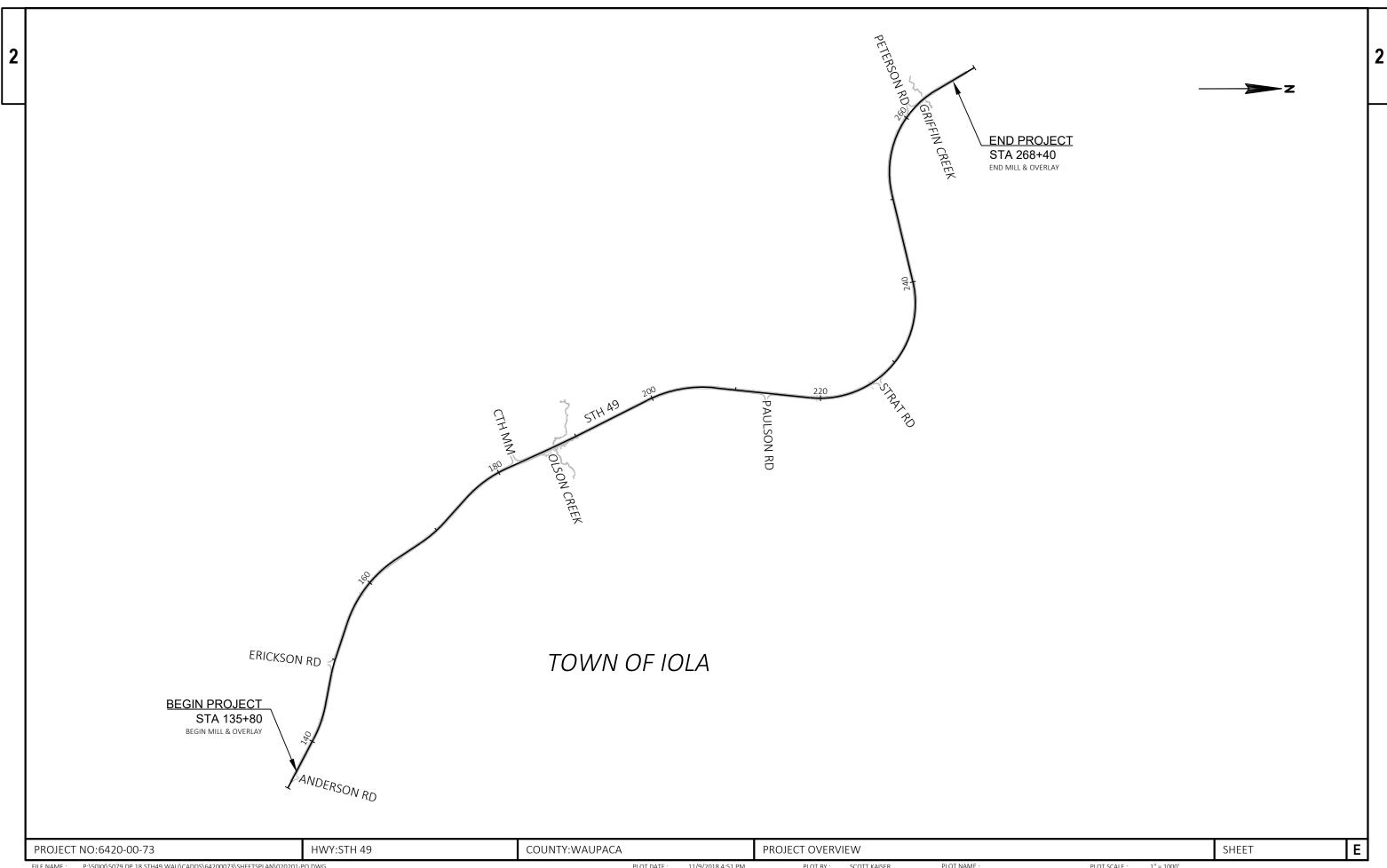
11/9/2018 4:50 PM

PLOT BY: SCOTT KAISER

PLOT NAME :

PLOT SCALE :

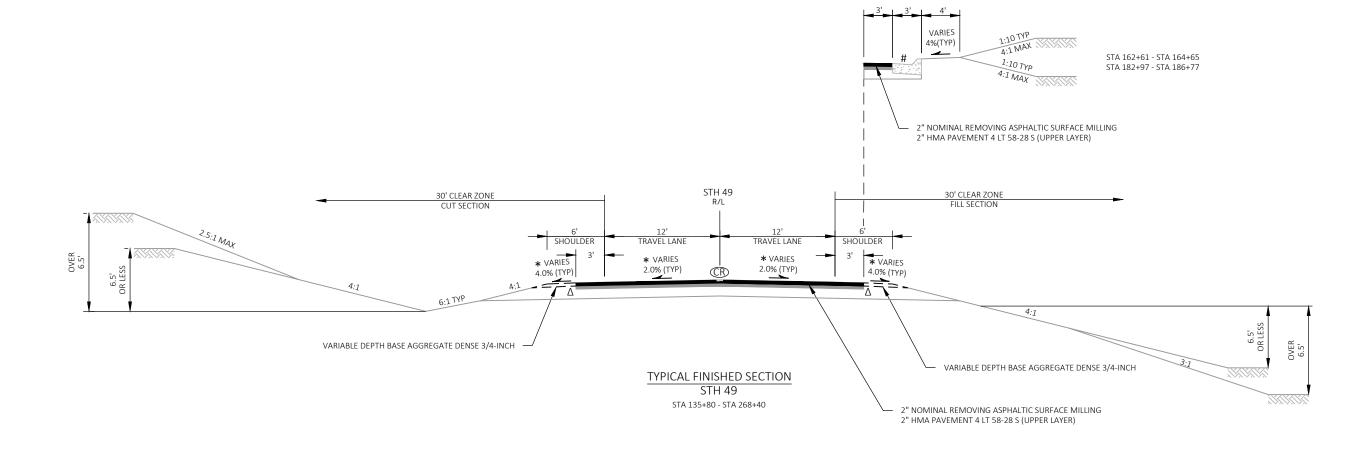
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VARIES 4%(TYP) STA 162+61 - STA 164+65 STA 182+97 - STA 186+77 1:10 TYP 4:1 MAX CONCRETE CURB AND GUTTER 36-INCH 4" ASPHALTIC PAVEMENT 6" AGGREGATE COURSE STH 49 R/L 30' CLEAR ZONE FILL SECTION 30' CLEAR ZONE CUT SECTION 12' TRAVEL LANE 12' TRAVEL LANE SHOULDER SHOULDER * VARIES 4.0% (TYP) OVER 6.5' * VARIES 4.0% (TYP) * VARIES 2.0% (TYP) * VARIES 2.0% (TYP) 4:1 4" ASPHALTIC PAVEMENT 6" AGGREGATE COURSE TYPICAL EXISTING SECTION STH 49 STA 135+80 - STA 268+40 NOTES
* CROSS SLOPE VARIES DUE TO SUPERELEVATION Ε HWY:STH 49 COUNTY:WAUPACA TYPICAL SECTIONS SHEET PROJECT NO:6420-00-73

FILE NAME: P\SOXX\S079.DP.18.STH49.WAU\CADDS\64200073\SHEETSPLAN\020301-TS.DWG PLOT BY: SCOTT KAISER PLOT NAME: PLOT SCALE: 1 IN:10 FT LAYOUT NAME - 020301_ts

WISDOT/CADDS SHEET 42



NOTES

* CROSS SLOPE VARIES DUE TO SUPERELEVATION

SEE CONSTRUCTION DETAILS FOR CURB & GUTTER REPLACEMENT STA 185+80 - STA 186+77, RT.

 Δ - Pavement safety edge required for paved shoulders 3' or less, see SDD "safety edge".

ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL. SEE SDD "2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING" FOR ADDITIONAL INFORMATION.

Ε PROJECT NO: 6420-00-73 HWY: STH 49 COUNTY: WAUPACA TYPICAL SECTIONS SHEET P:\50XX\5079.DP.18.STH49.WAU\CADDS\64200073\SHEETSPLAN\020301-TS.DWG PLOT DATE : 11/9/2018 4:51 PM PLOT BY: SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42 ASPHALTIC WEDGING
(FULL DEPTH REMOVA

(FULL DEPTH REMOVAL OPTIONAL)

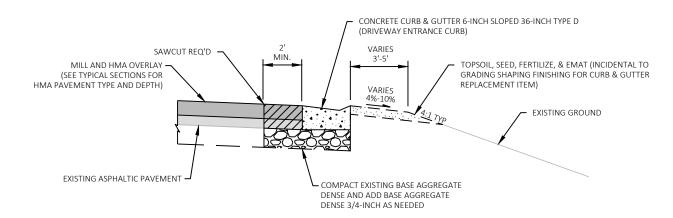
REMOVING ASPHALTIC SURFACE BUTT JOINTS
DO NOT REMOVE MATERIAL UNDER THIS ITEM UNTIL 24 HOURS BEFORE PAVING

REMOVING ASPHALTIC SURFACE MILLING

HMA OVERLAY

ASPHALTIC SURFACE BUTT JOINT DETAIL

REQUIRED AT BEGIN PROJECT LIMITS, END PROJECT LIMITS, AND INTERSECTIONS (SEE SECTION 5 PLAN SHEETS FOR LOCATIONS)



DETAIL OF CURB & GUTTER INSTALLATION

STA 185+80 - STA 186+77, RT

NOTES

COMPLETE CURB & GUTTER REPLACEMENT AND ASPHALTIC SURFACE PATCHING TO MATCH THE EXISTING SURFACE PRIOR TO THE MILL AND OVERLAY OF STH 49.

FOR DETAILS NOT SHOWN, SEE SDD "CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES".

GUARDRAIL PRESENT ADJACENT TO A PORTION OF THE CURB & GUTTER REPLACEMENT. DO NOT REMOVE EXISTING GUARDRAIL.

RUNOFF COEFFICIENT TABLE

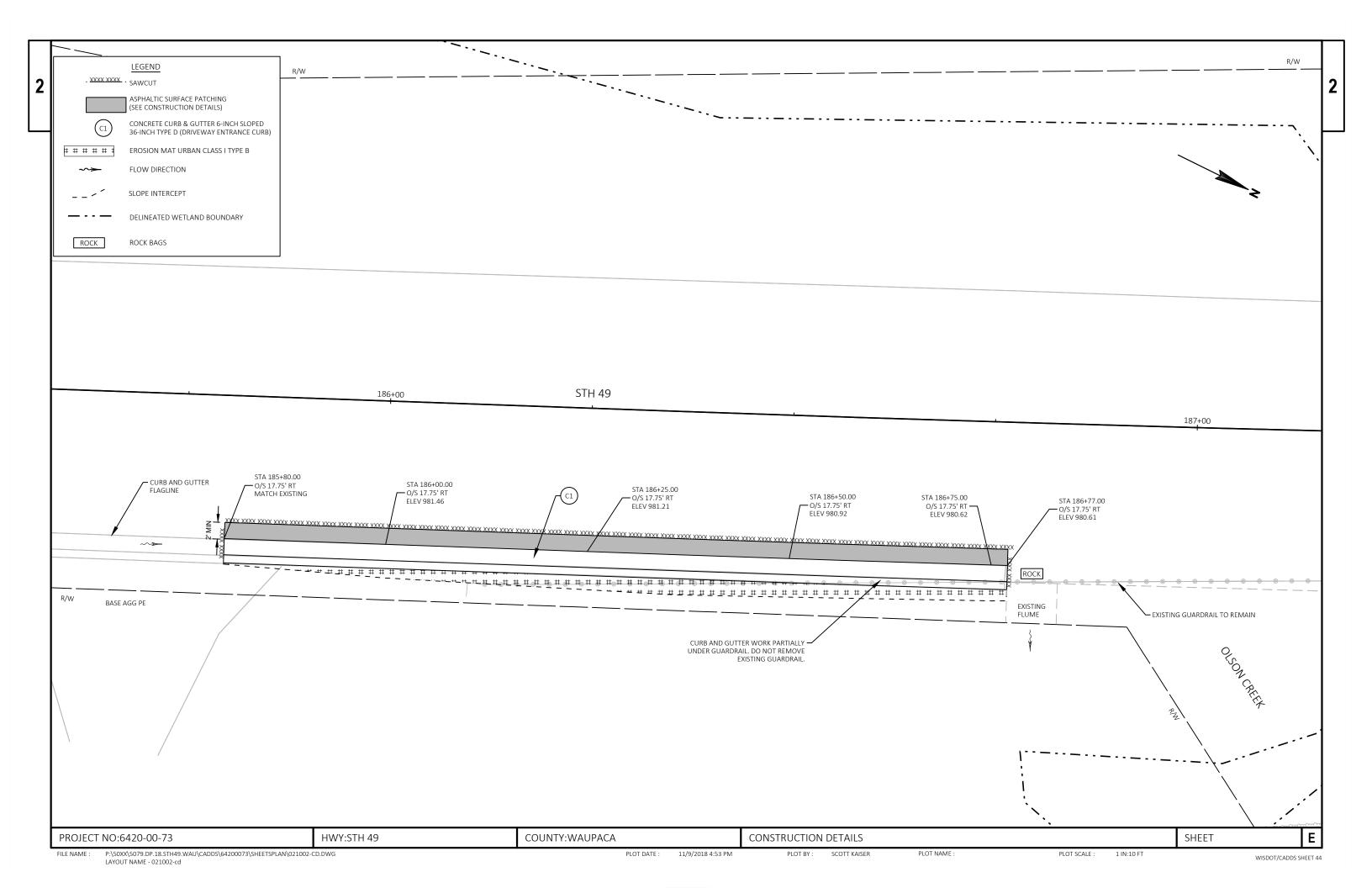
		HYDROLOGIC SOIL GROUP										
			A		В			С		D		
	s	LOPE RAI	NGE (PERCENT)	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:	-						•					
ASPHALT						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS						.7585						
ROOFS						.7595						
GRAVEL ROADS, SHO	ULDERS					.4060						

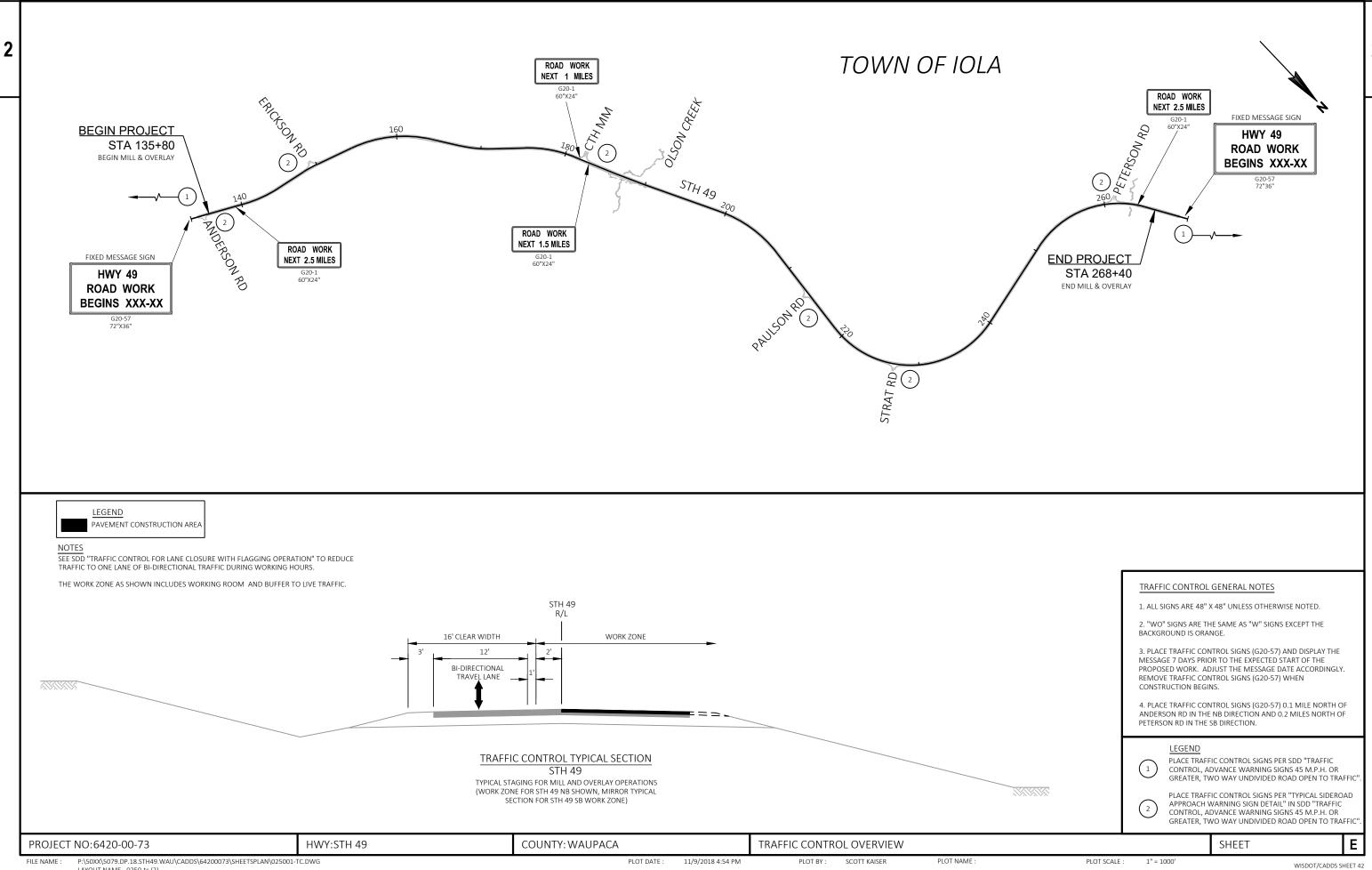
TOTAL PROJECT AREA = 41.65 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.01 ACRES

Ε PROJECT NO:6420-00-73 HWY:STH 49 COUNTY: WAUPACA CONSTRUCTION DETAILS SHEET P:\50XX\5079.DP.18.STH49.WAU\CADDS\64200073\SHEETSPLAN\021001-CD.DWG SCOTT KAISER PLOT NAME : FILE NAME : PLOT DATE : 11/9/2018 4:51 PM PLOT BY: PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42

4" MINIMUM ASPHALTIC SURFACE PATCHING AND REMOVING ASPHALTIC SURFACE (MATCH EXISTING PAVEMENT DEPTH)





LAYOUT NAME - 0250-tc (2)

					6420-00-73	
Line	Item	Item Description	Unit	Total	Qty	
0002	204.0110	Removing Asphaltic Surface	SY	25.000	25.000	
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	50.000	50.000	
0006	204.0120	Removing Asphaltic Surface Milling	SY	46,460.000	46,460.000	
8000	204.0150	Removing Curb & Gutter	LF	97.000	97.000	
0010	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 6420-00-73	LS	1.000	1.000	
0012	213.0100	Finishing Roadway (project) 01. 6420-00-73	EACH	1.000	1.000	
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	500.000	500.000	
0016	390.0201	Base Patching Asphaltic	TON	50.000	50.000	
0018	455.0605	Tack Coat	GAL	3,250.000	3,250.000	
0020	460.2000	Incentive Density HMA Pavement	DOL	3,310.000	3,310.000	
0022	460.5224	HMA Pavement 4 LT 58-28 S	TON	5,160.000	5,160.000	
0024	465.0110	Asphaltic Surface Patching	TON	30.000	30.000	
0026	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	11,260.000	11,260.000	
0028	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	97.000	97.000	
0030	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6420-00-73	EACH	1.000	1.000	
0032	619.1000	Mobilization	EACH	1.000	1.000	
0034	624.0100	Water	MGAL	6.000	6.000	
0036	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000	
0038	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000	
0040	628.2008	Erosion Mat Urban Class I Type B	SY	25.000	25.000	
0042	628.7570	Rock Bags	EACH	5.000	5.000	
0044	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	2.000	2.000	
0046	638.2102	Moving Signs Type II	EACH	2.000	2.000	
0048	638.3000	Removing Small Sign Supports	EACH	2.000	2.000	
0050	638.4000	Moving Small Sign Supports	EACH	2.000	2.000	
0052	642.5001	Field Office Type B	EACH	1.000	1.000	
0054	643.0300	Traffic Control Drums	DAY	65.000	65.000	
0056		Temporary Portable Rumble Strips	LS	1.000	1.000	
0058	643.0900	Traffic Control Signs	DAY	885.000	885.000	
0060	643.1000	Traffic Control Signs Fixed Message	SF	36.000	36.000	
0062	643.5000	Traffic Control	EACH	1.000	1.000	
0064	646.1020	Marking Line Epoxy 4-Inch	LF	24,960.000	24,960.000	
0066	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	25,540.000	25,540.000	
0068	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	24,960.000	24,960.000	
0000	646.6120	Marking Stop Line Epoxy 18-Inch	LF	20.000	20.000	
0070	648.0100	Locating No-Passing Zones		20.000	20.000	
		•	MI LF			
0074	649.0105	Temporary Marking Line Paint 4-Inch		24,600.000	24,600.000	
0076	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	97.000	97.000	

Estimate Of Quantities

Estimate Of Quantities Page 2

					6420-00-73
Line	Item	Item Description	Unit	Total	Qty
0078	650.8000	Construction Staking Resurfacing Reference	LF	13,260.000	13,260.000
0800	650.9910	Construction Staking Supplemental Control (project) 01. 6420-00-73	LS	1.000	1.000
0082	690.0150	Sawing Asphalt	LF	100.000	100.000
0084	690.0250	Sawing Concrete	LF	3.000	3.000
0086	740.0440	Incentive IRI Ride	DOL	10,000.000	10,000.000
8800	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0090	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0092	SPV.0090	Special 01. Grading Shaping Finishing for Curb & Gutter Replacement	LF	97.000	97.000

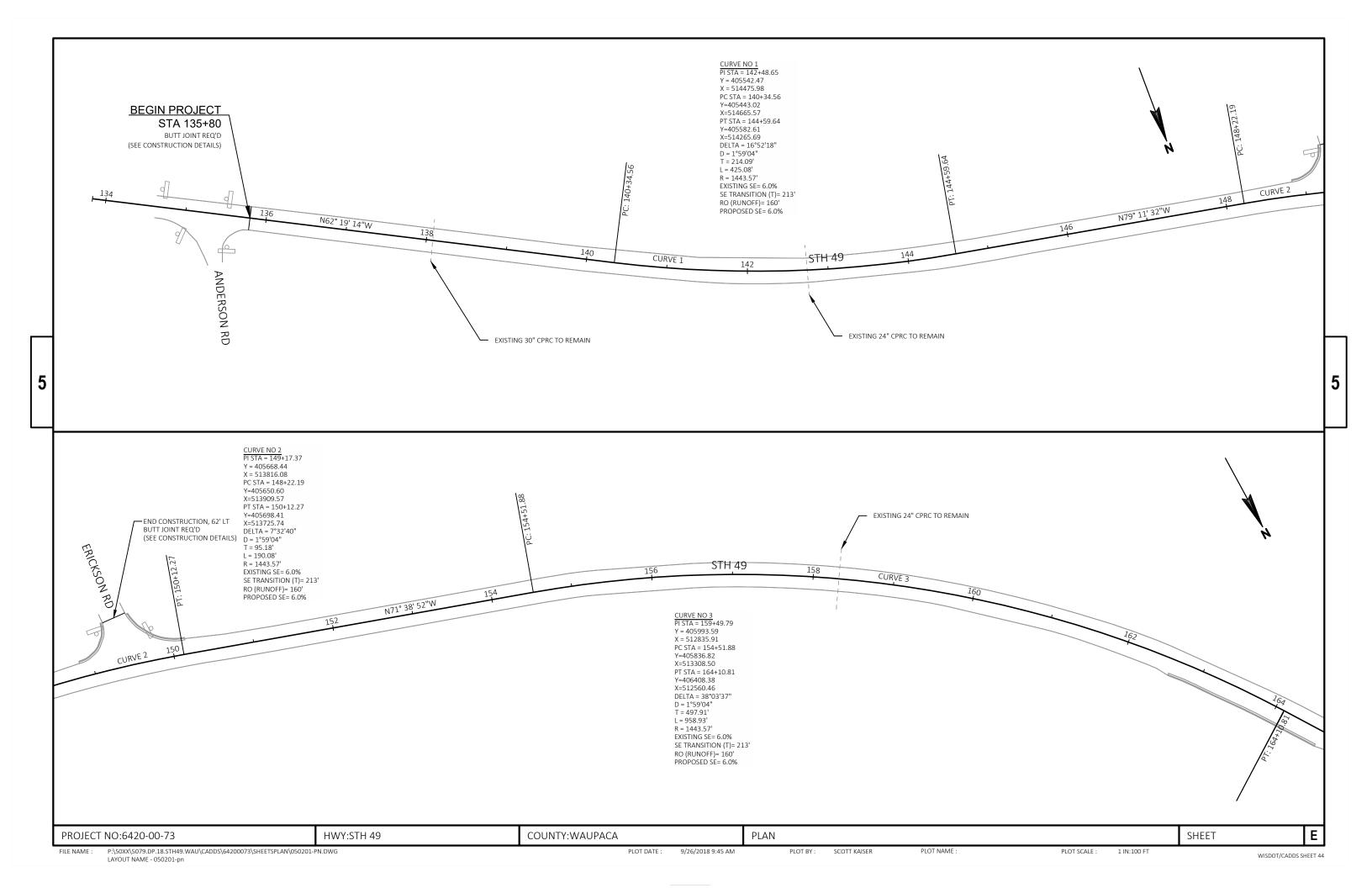
ASSOCIATION DE SINCE DE CARRES DE CA		REMOVAL ITEMS 204.0110 204.0115 204.0120 204 REMOVING REMOVING REMOVING ASPHALTIC ASPHALTIC REM		BASE AGGREGATE ITEMS
211.0100 390.0201 455.0605 465.0405 465.0475 ASPHALTIC	0010 135+80 182+00 227+00	SURFACE BUTT JOINTS MILLING GU N TO STATION OFFSET SY SY SY 1 - 182+00 LT&RT 15 15,880 1 - 227+00 LT&RT 25 15 15,950 2 - 268+40 LT&RT 20 14,630	JTTER <u>LF</u> 97	AGGREGATE DENSE 3/4-INCH WATER DENSE 3/4-INCH WATER DENSE 3/4-INCH MGAL
0010 135+80 - 182+00 LT&RT 1,110 1,765 4,020 182+00 - 227+00 LT&RT 1,115 1,770 5 3,700 227+00 - 268+40 LT&RT 1,025 1,625 3,540 135+80 - 268+40 LT&RT 1 1001STRIBUTED 50 25 TOTALS 1 50 3,250 5,160 30 11,260 CATEGORY STATION TO STATION OFFSET LF CATEGORY STATION TO STATION OFFSET LF CATEGORY STATION TO STATION OFFSET LF 0010				
		211.0100 390.0201 455.0605 460.5224 4 PREPARE FOUNDATION FOR BASE HMA AS ASPHALTIC PAVING PAVEMENT 4 S (6420-00-73) ASPHALTIC TACK COAT LT 58-28 S P.	ASPHALTIC SPHALTIC CENTERLINE SURFACE RUMBLE STRIPS PATCHING 2-LANE RURAL	G01.0557 CONCRETE CURB & GUTTER 6-INCH

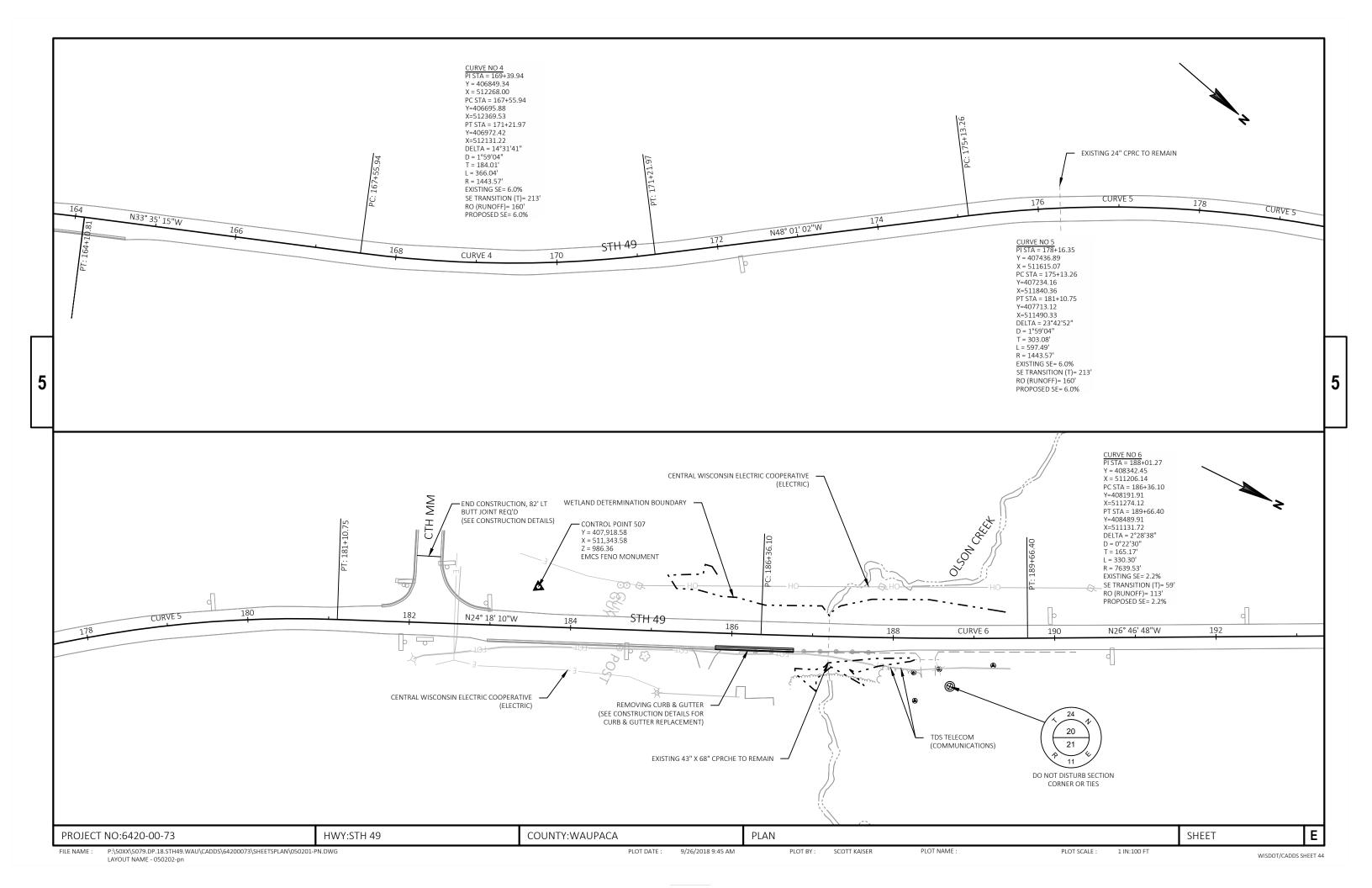
FILE NAME: P:\50XX\5079.DP.18.STH49.WAU\CADDS\64200073\SHEETSPLAN\030201-MQ.DWG PLOT DATE: 3/4/2019 5:35 PM PLOT NAME: WISDOT/CADDS SHEET 42

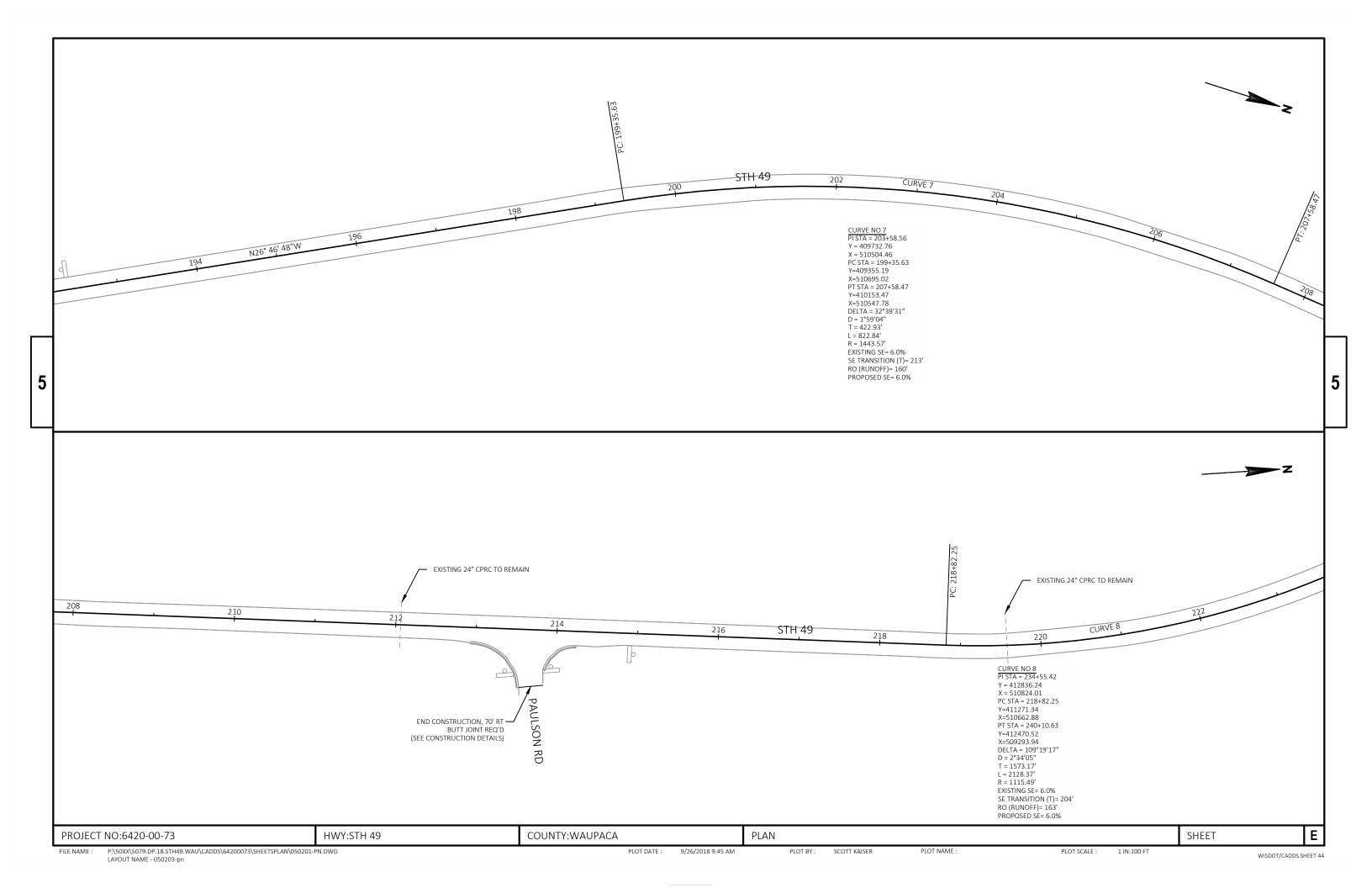
	EROSION CONTROL ITEMS 628.2008 628.757 EROSION MAT URBAN CLASS I TYPE B BAGS CATEGORY STATION TO STATION OFFSET 0010 185+80 - 186+77 RT 20 4 UNDISTRBUTED 5 1 TOTALS 25 5		BEROSION CONTROL MOBILIZATION 628.1905 628.1910 MOBILIZATIONS MOBILIZATIONS EROSION ENERGENCY EROSION CONTROL CONTROL CONTROL 0010 PROJECT 2 1 TOTALS 2 1
	REMOVING AND MOVING SIGNS		TRAFFIC CONTROL ITEMS
PROJECT NO: 6420-00-73 FILE NAME: P:\50XX\5079.DP.18.STH49.WAU\CAI	HWY: STH 49	COUNTY: WAUPACA PLOT DATE: 11/9/2018 4:54	MISCELLANEOUS QUANITIES SHEET E PLOT BY: SCOTT KAISER PLOT NAME:

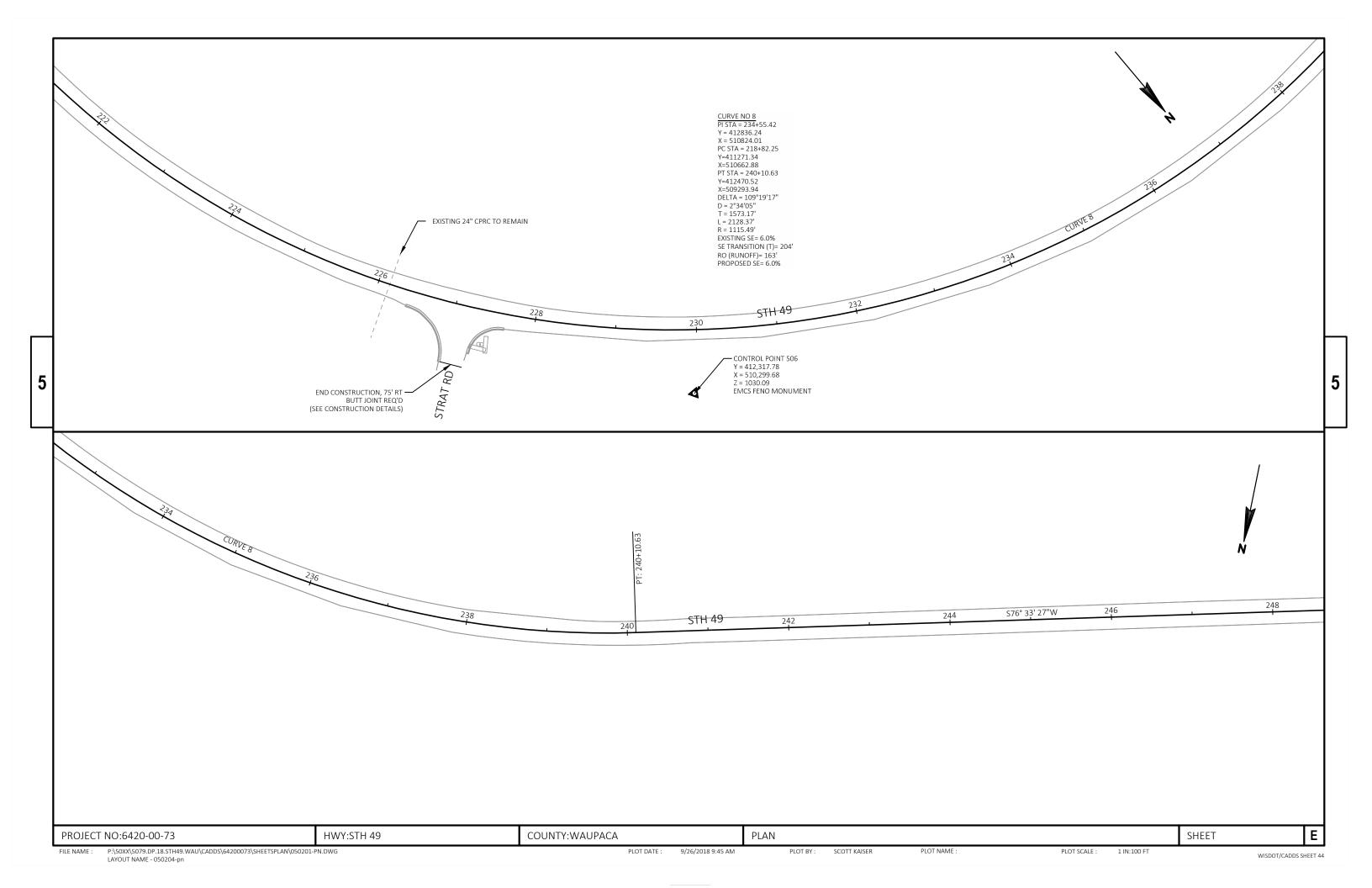
WISDOT/CADDS SHEET 42

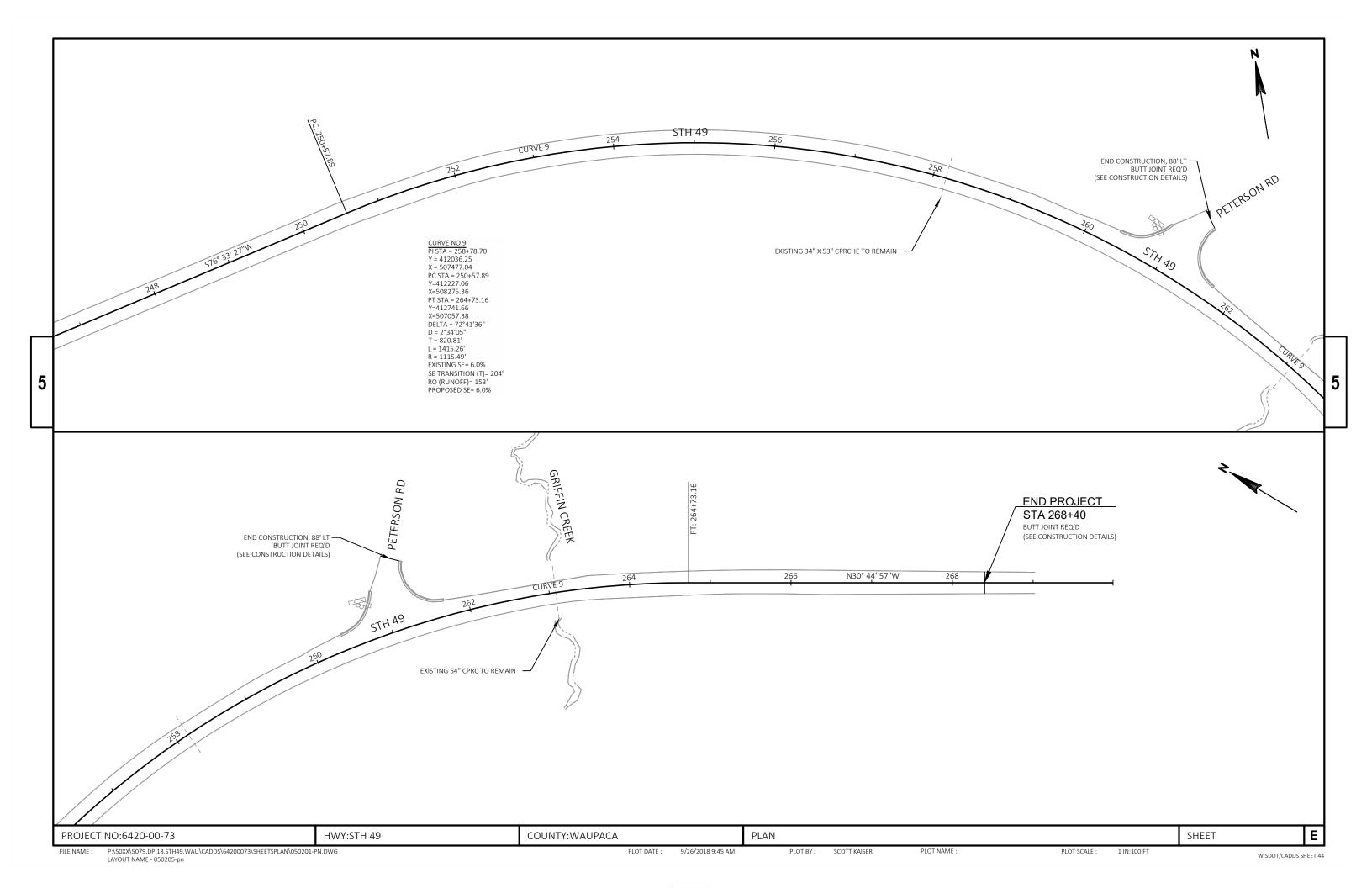
TRAFFIC CONTROL SIGNS FIXED MESSAGE SIGN SIZE W X H 643.1000 INCH X INC	PAVEMENT MARKING ITEMS 646.1020
LOCATING NO-PASSING ZONES 648.0100 LOCATING NO-PASSING NO-PASSING ZONES CATEGORY STATION TO STATION MI 0010 135+80 - 268+40 2.51 TOTAL 2.51	CONSTRUCTION STAKING
CURB & GUTTER GRADING SHAPING FINISHING SPV.0090.01	SAWING 690.0150 690.0250 SAWING SAWING ASPHALT CONCRETE CATEGORY STATION TO STATION OFFSET LF LF 0010 185+80 - 186+77 RT 100 3 TOTALS 100 3





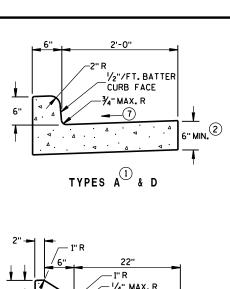


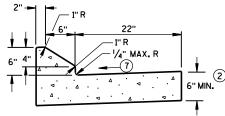




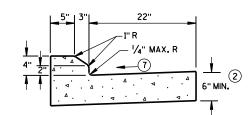
Standard Detail Drawing List

08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
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	LONGITUDINAL MARKING (MAINLINE)
15С11-07В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING

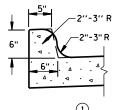




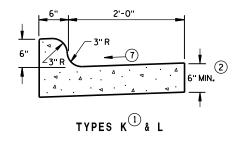
6" SLOPED CURB TYPES G 4 J



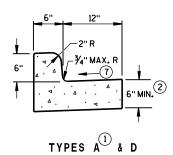
4" SLOPED CURB TYPES G 4 J



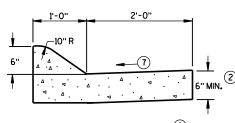
TYPES K (1) & L (OPTIONAL CURB SHAPE)



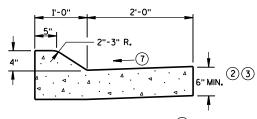
CONCRETE CURB & GUTTER 30"



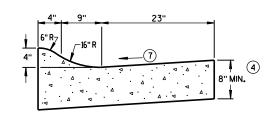
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A & D

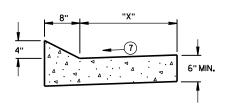


4" SLOPED CURB TYPES A D



4" SLOPED CURB TYPES R T & T

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

GENERAL NOTES

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

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

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

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

- (1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
- 2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED
- (4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- (6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- (7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- (8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

6

20a

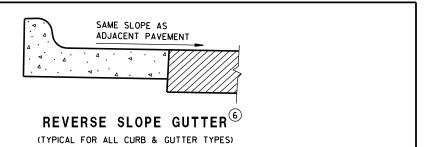
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CONCRETE PANEL WIDTH SAME PAY LIMITS TRAFFIC TRAFFIC LANE -AS CURB & GUTTER LANE PAVEMENT SLOPE PAVEMENT THICKNESS

PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



CONCRETE CURB & GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

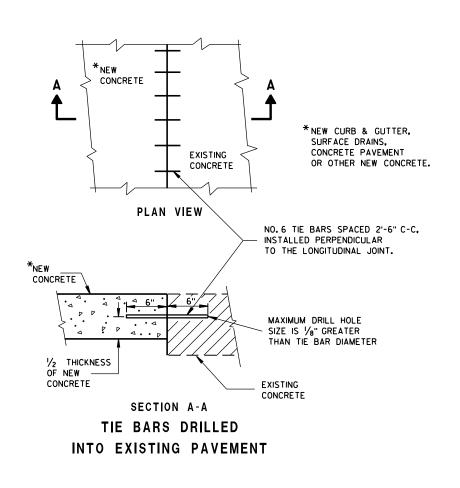
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^{*} BIKE LANE IS NOT SHOWN.

DETAIL OF CURB AND GUTTER AT INLETS (TYPE H INLET COVER SHOWN)

CONTRACTION PAVEMENT

END SECTION CURB & GUTTER



GENERAL NOTES

_ 1/2"/FT.BATTER,FACE OF CURB (ABOVE ADJACENT PAVEMENT)

ADJACENT

PAVEMENT

NO. 4 X 2'-0" DEF. TIE

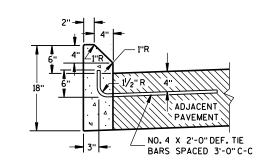
BARS SPACED 3'-0" C-C

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

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

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

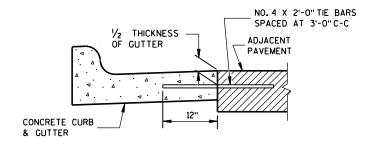
- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A.G.K.R AND TBTT.
- 2 THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



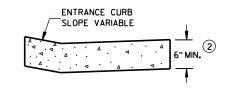
TYPES A D

TYPES G 4 J

CONCRETE CURB



TYPICAL TIE BAR LOCATION 1



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Rodney Taylor June, 2017 DATE

ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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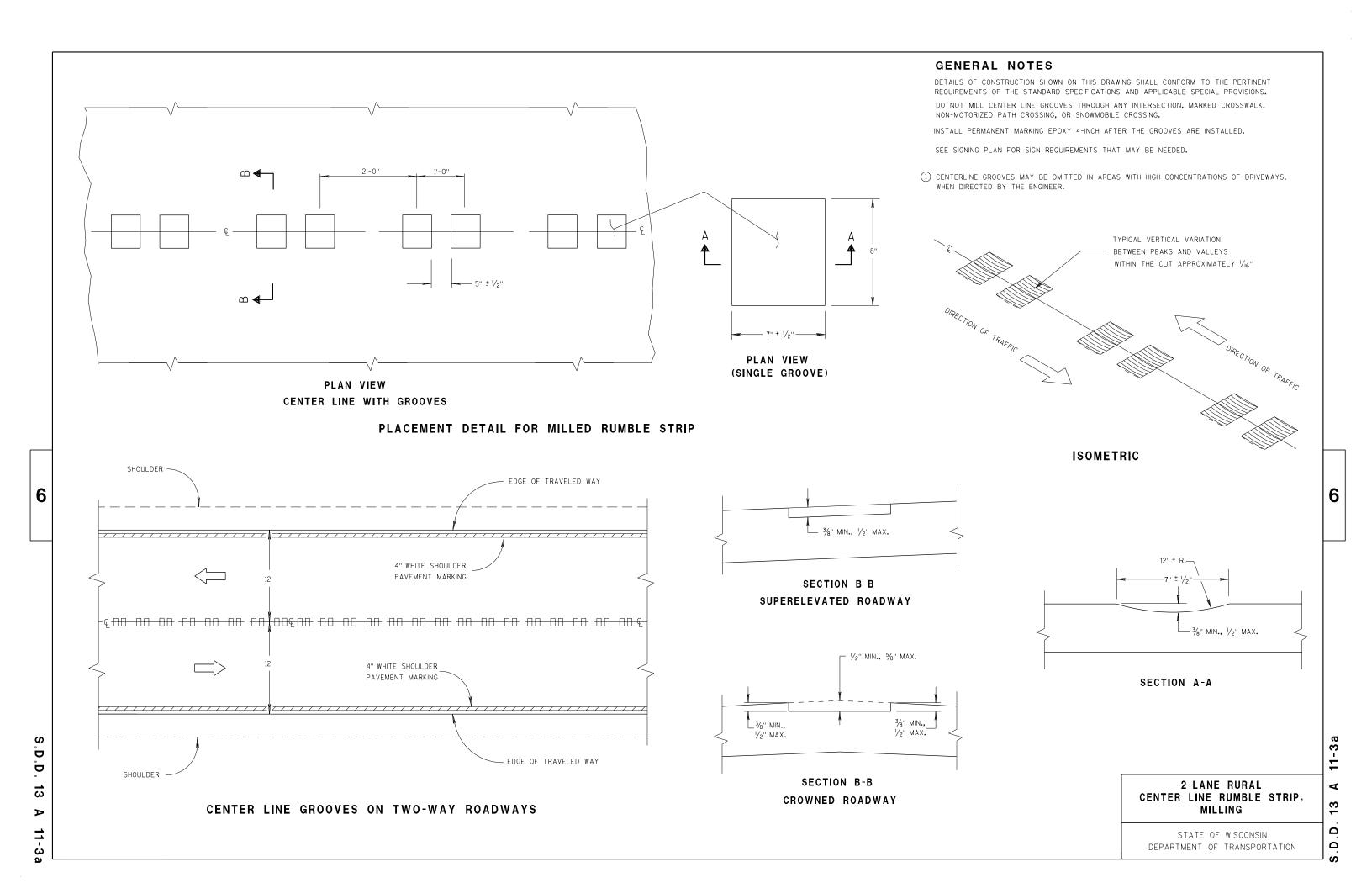
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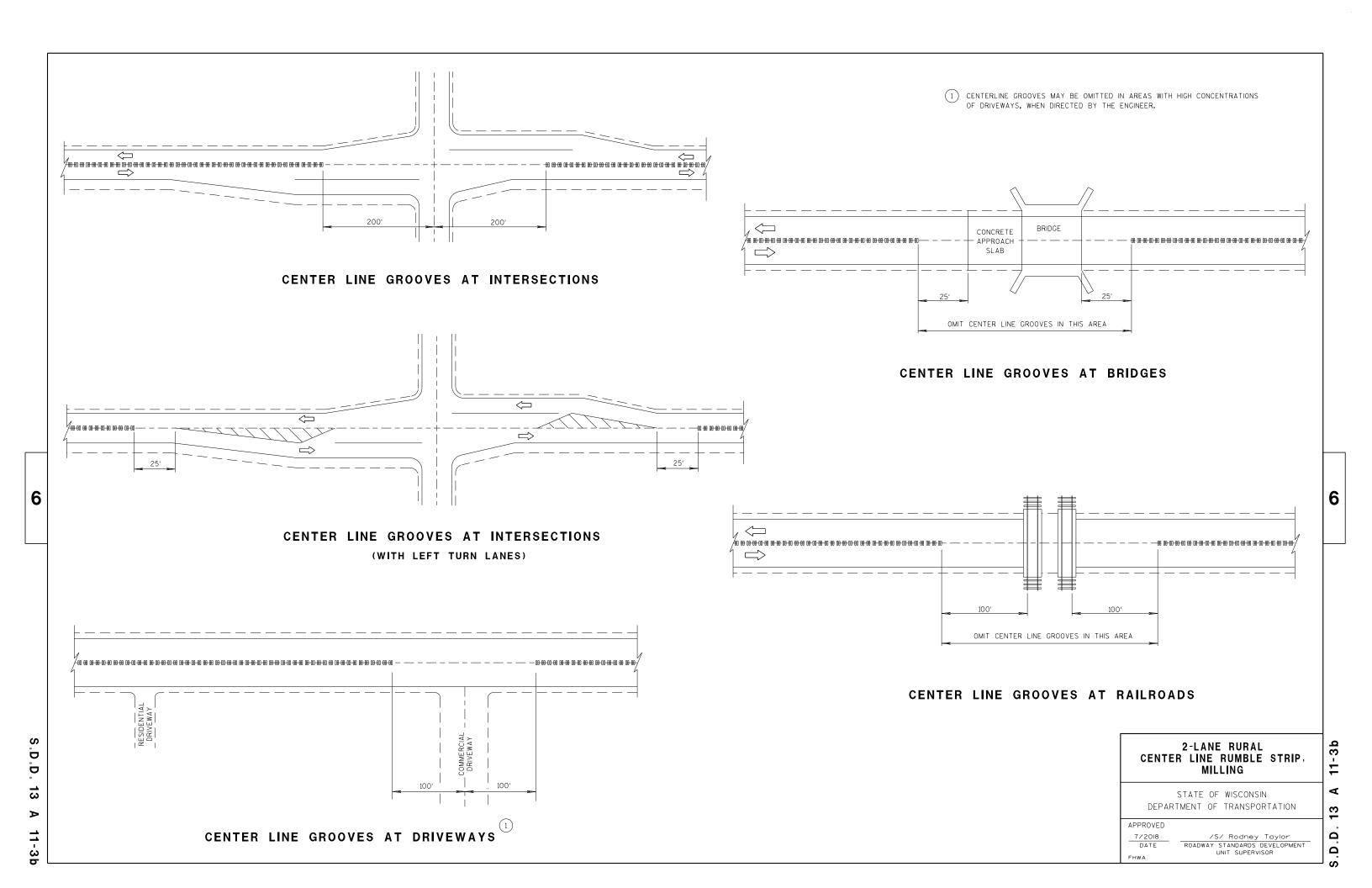
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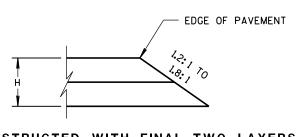
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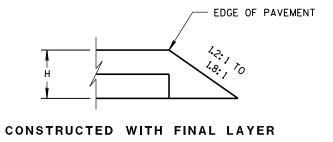
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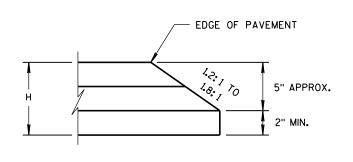


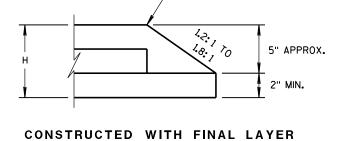


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





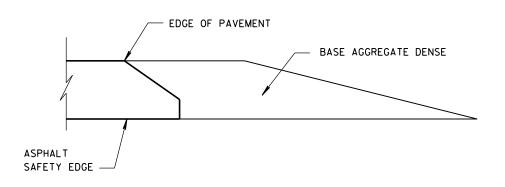
FOR H GREATER THAN 5"

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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APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

GENERAL NOTES

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

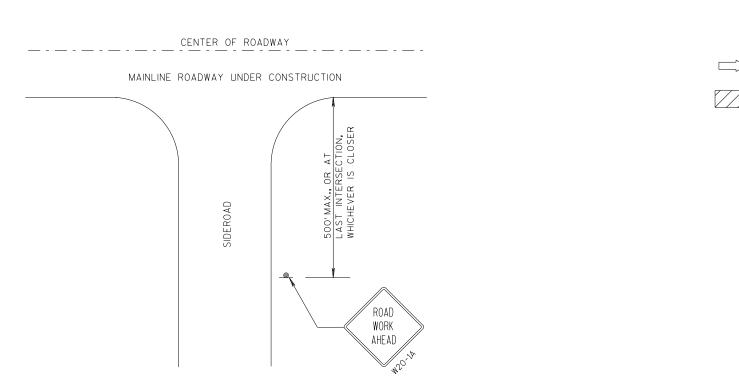
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

- imes OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- ** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

SIGN ON PERMANENT SUPPORT

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DIRECTION OF TRAFFIC

WORK AREA

TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

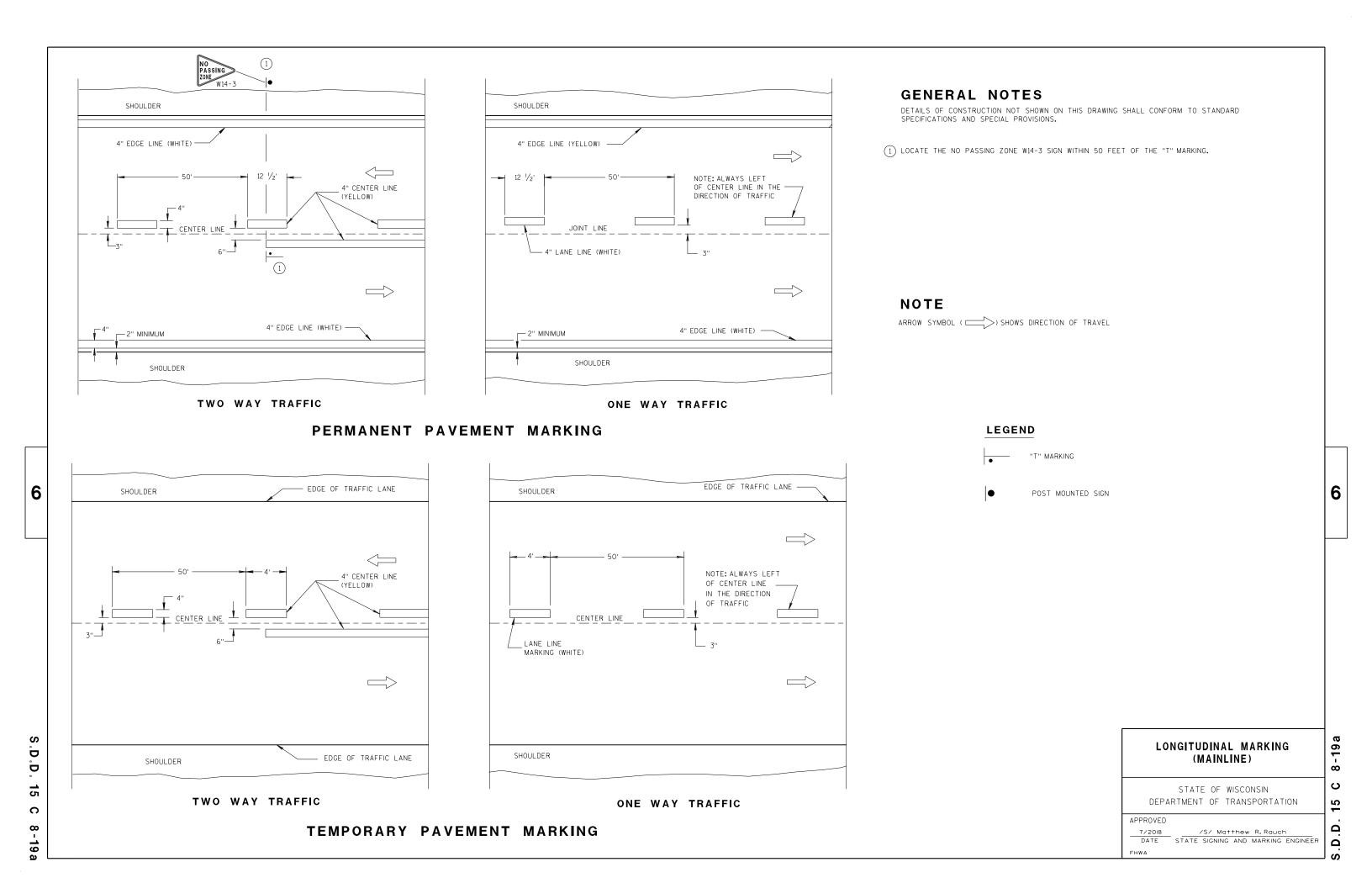
APPROVED

7/2018 /S/ Andrew Heidtke

DATE WORK ZONE ENGINEER

D.D. 15 C 4

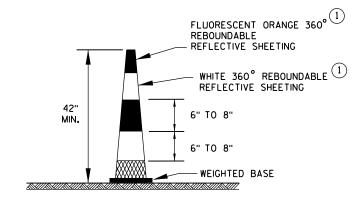
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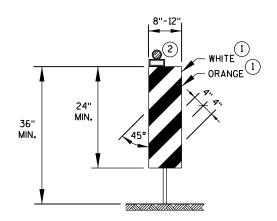
TYPE 2 BARRICADE

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



42" CONE

DO NOT USE IN TAPERS 1/2 SPACING OF DRUMS

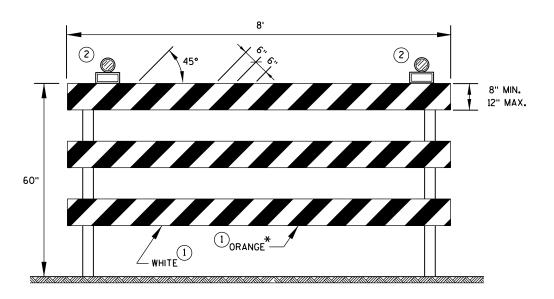


VERTICAL PANEL

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

GENERAL NOTES

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



TYPE 3 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

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APPROVED

June 2017
DATE

WORK ZONE ENGINEER
FHWA

S.D.D. 15 C 1

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STOP/SLOW PADDLE ON SUPPORT STAFF

5' MIN.

WORK

AHEAD

48" X 24"

END ROAD WORK G20-2A

(2)

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W20-1A

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT. REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

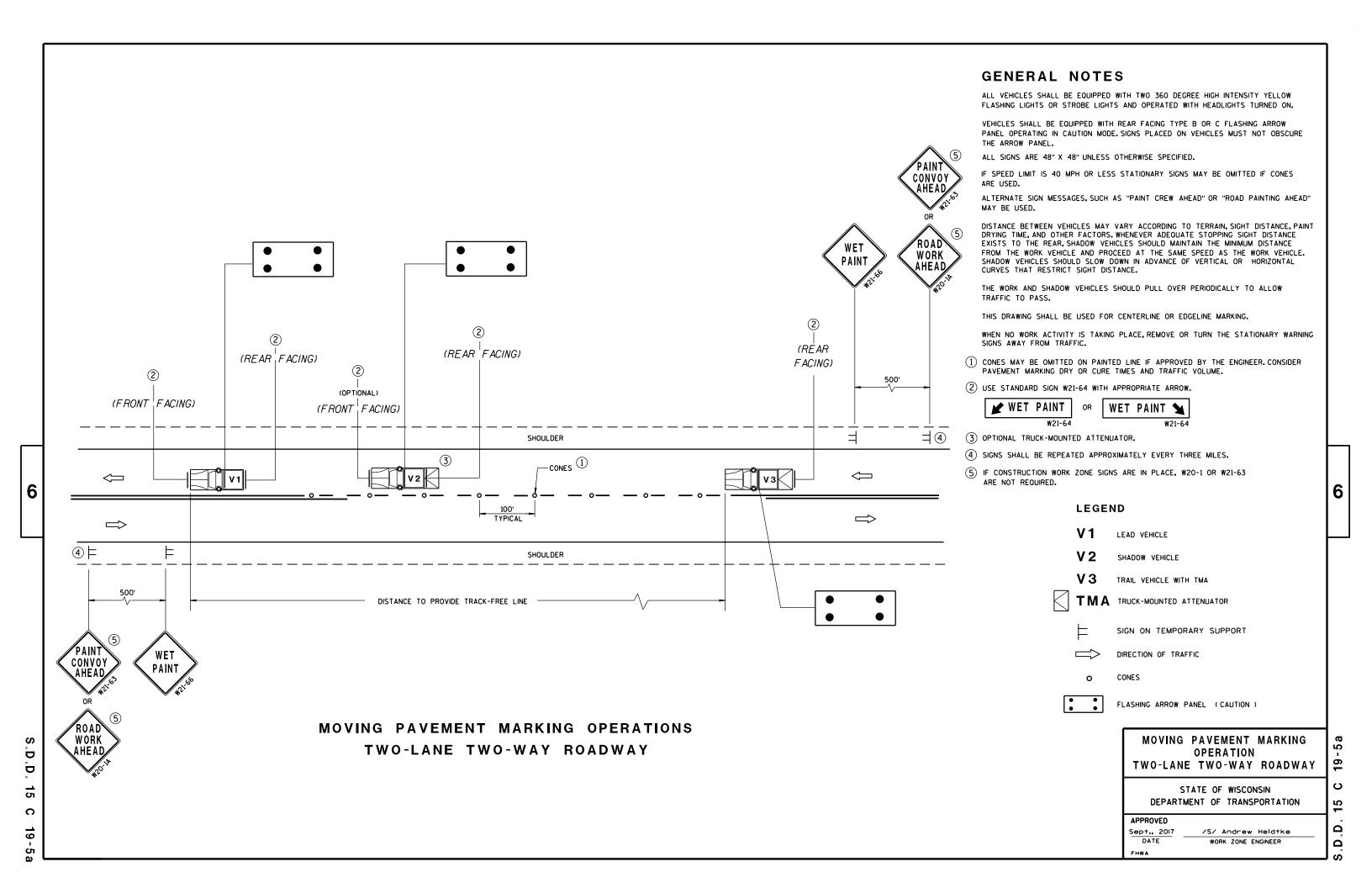
- 1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

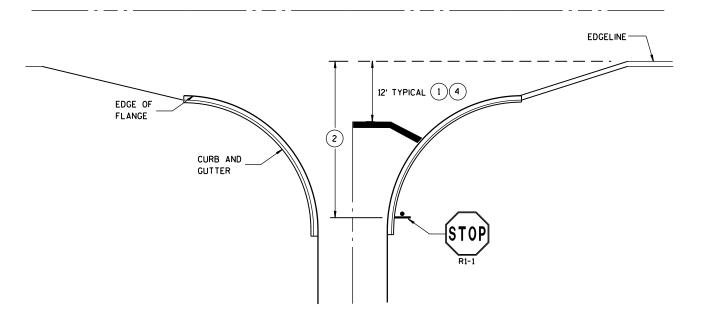
TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

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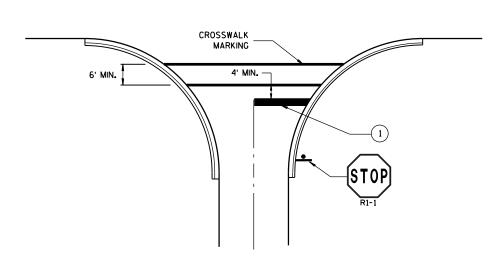




8" CHANNELIZATION WHITE FLANGELINE (EXTENSION) WHITE EDGELINE 4' TYPICAL (4)

TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



- EDGELINE 12' TYPICAL (1)

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

- 1 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- 2 IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
- (3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
- (4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK **PAVEMENT MARKING**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED						
Sept., 2017		/S/ I	Matth	ew R.	Ro	uch
DATE	STATE	SIGNIN	G AND	MARKI	NG	ENGINEER
FHWA						

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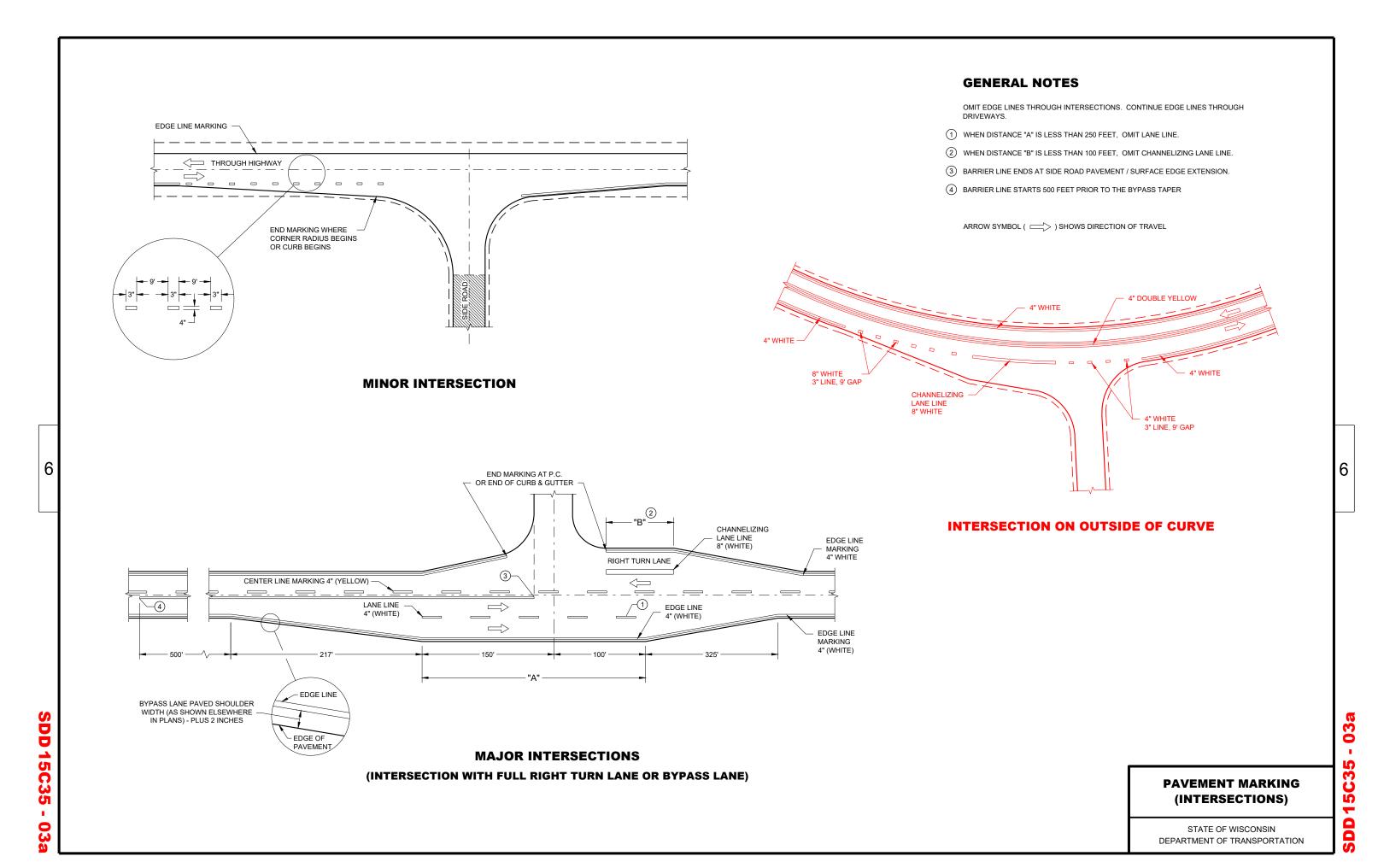
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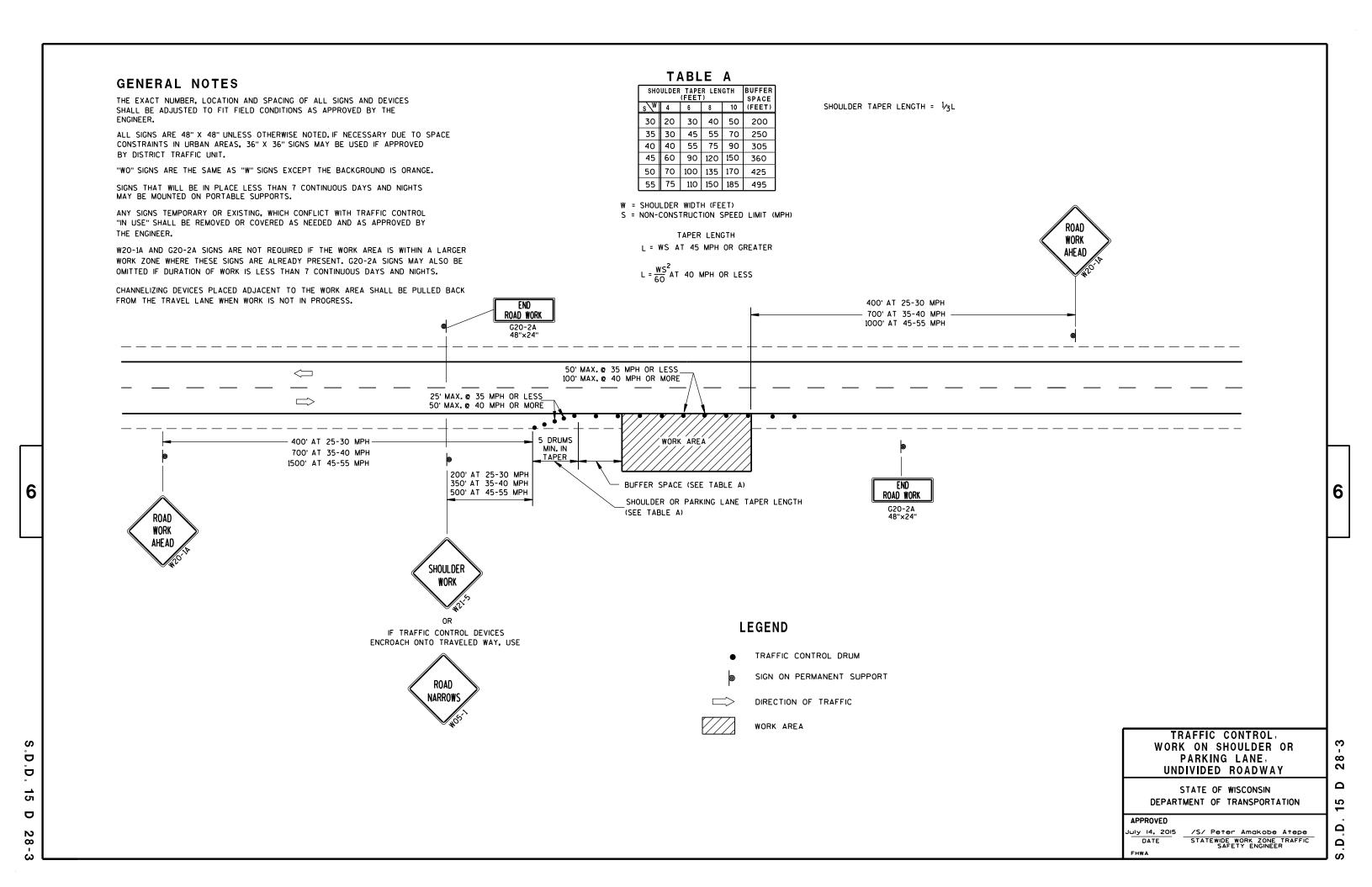
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TUBULAR STEEL POSTS

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

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

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

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

4" X 6" WOOD POST

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

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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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 - 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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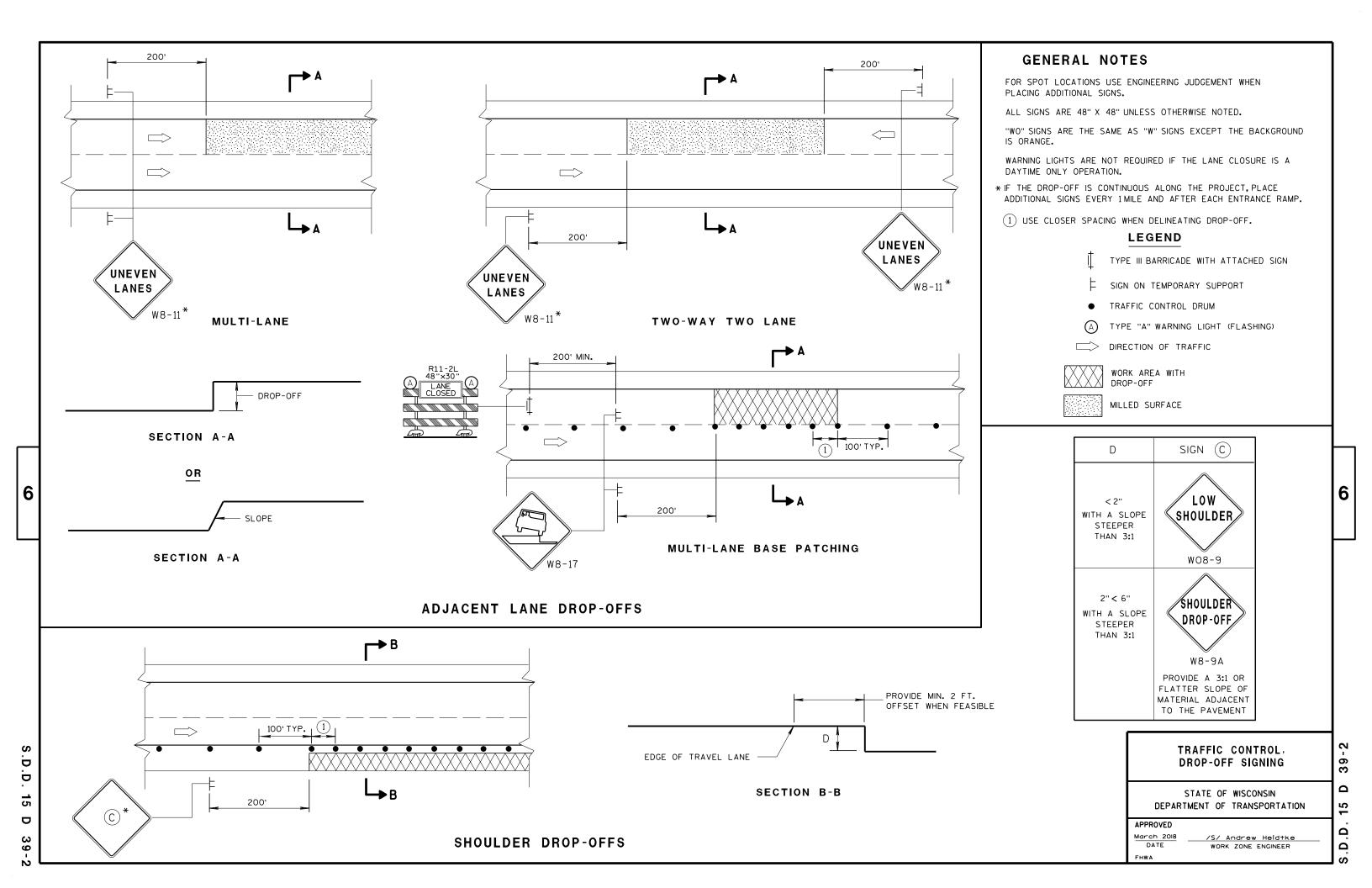
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38-2b



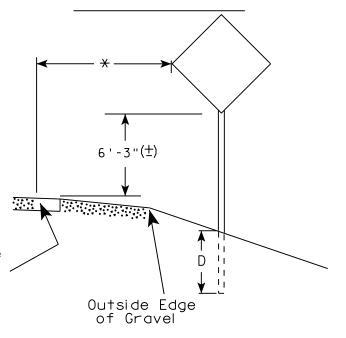
urban area

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

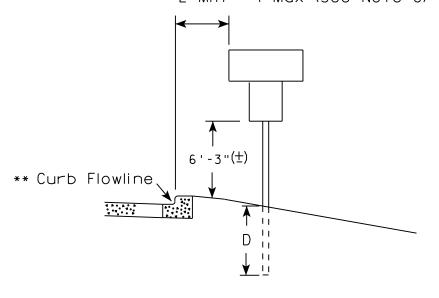
** Curb Flowline

D | White Edgeline Location

RURAL AREA (See Note 2)



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



White Edgeline
Location

Outside Edge
of Gravel

PLOT DATE: 21-AUG-2017 16:04

** 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.

POST EMBEDMENT DEPTH

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

* 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" (±).

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

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

SHEET NO:

PROJECT NO:

HWY:

COUNTY:

NTY:

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

PLOT SCALE : 100.601251:1.000000



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

HWY:

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

COUNTY:

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

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



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:

| | |



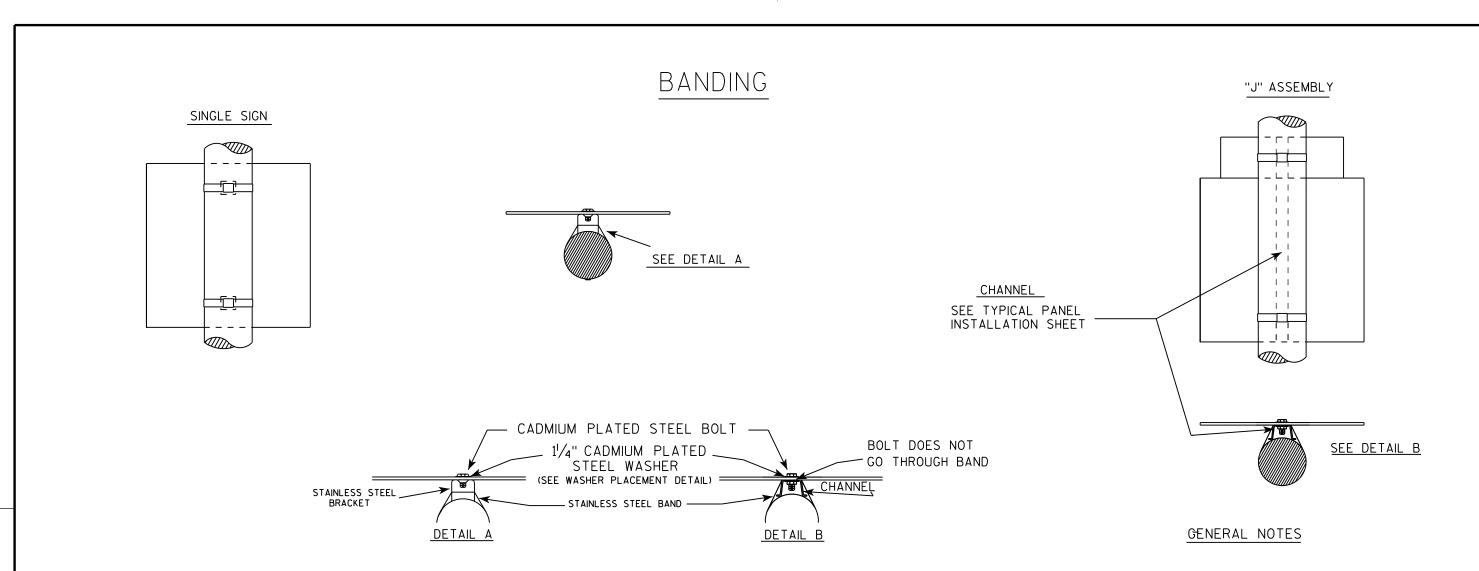
PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

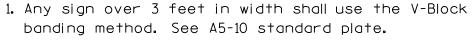
DATE 2/05/15

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

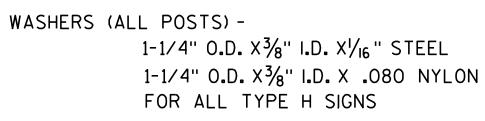
For State Traffic Engineer







- 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.



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

State Traffic Engineer DATE 8/16/13 PLATE NO. A5-9.3

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A59.DGN

PROJECT NO:

WASHER PLACEMENT

HWY:

steel

washer

nylon

washer

PLOT DATE: 16-AUG-2013 13:27

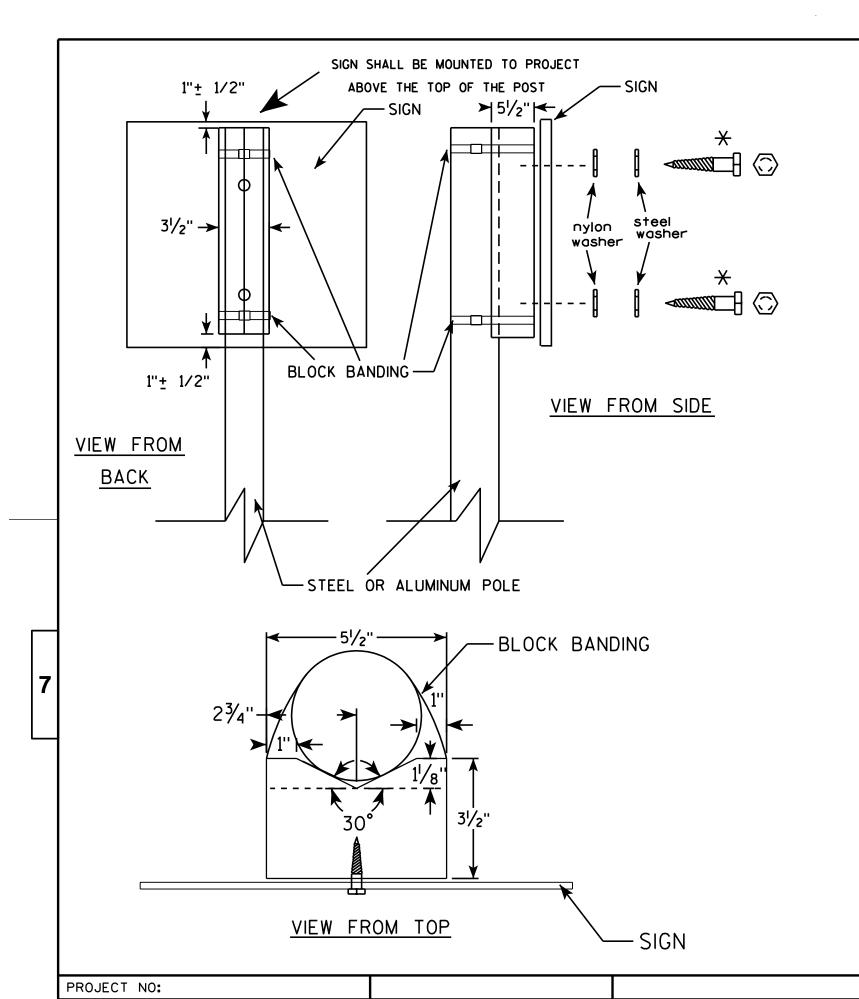
COUNTY:

PLOT SCALE: 33.740899:1.000000

WISDOT/CADDS SHEET 42

PLOT BY: mscsja

PLOT NAME :



GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
 - b. Cadmium plated in accordance with ASTM Designation: B 766 TYPE 3, Class 12, or
 - c. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE 11/4" O.D. X 3/8" I.D. X 1/16"
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

X LAG BOLTS SHALL BE 3/8" X 21/2"

BLOCK BANDING DETAIL (V-BLOCK OPTION) WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 7/12/07 PLATE NO. <u>A5-10.1</u>

SHEET NO:

NOTES

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

Background - Orange Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

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	NEXT O MILES	
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	G20-1	

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COUNTY:

STANDARD SIGN G20-1

Fer State Traffic Engineer
DATE 3/14/17 PLATE NO. G20-1.8

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G201.DGN HWY:

PLOT DATE: 14-MAR-2017 13:28

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

PLOT SCALE: 6.889165:1.000000

WISDOT/CADDS SHEET 42

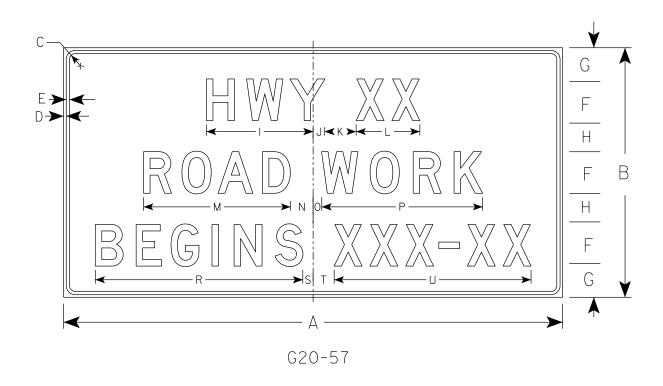
SHEET NO:

WISCONSIN DEPT OF TRANSPORTATION APPROVED Matthew & Rauch

- 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	А	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 %	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
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COUNTY:

STANDARD SIGN G20-57

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

For State Traffic Engineer

DATE 1/22/19

PLATE NO. G20-57.3

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

HWY:

PROJECT NO:

PLOT DATE: 22-JAN-2019 1:46

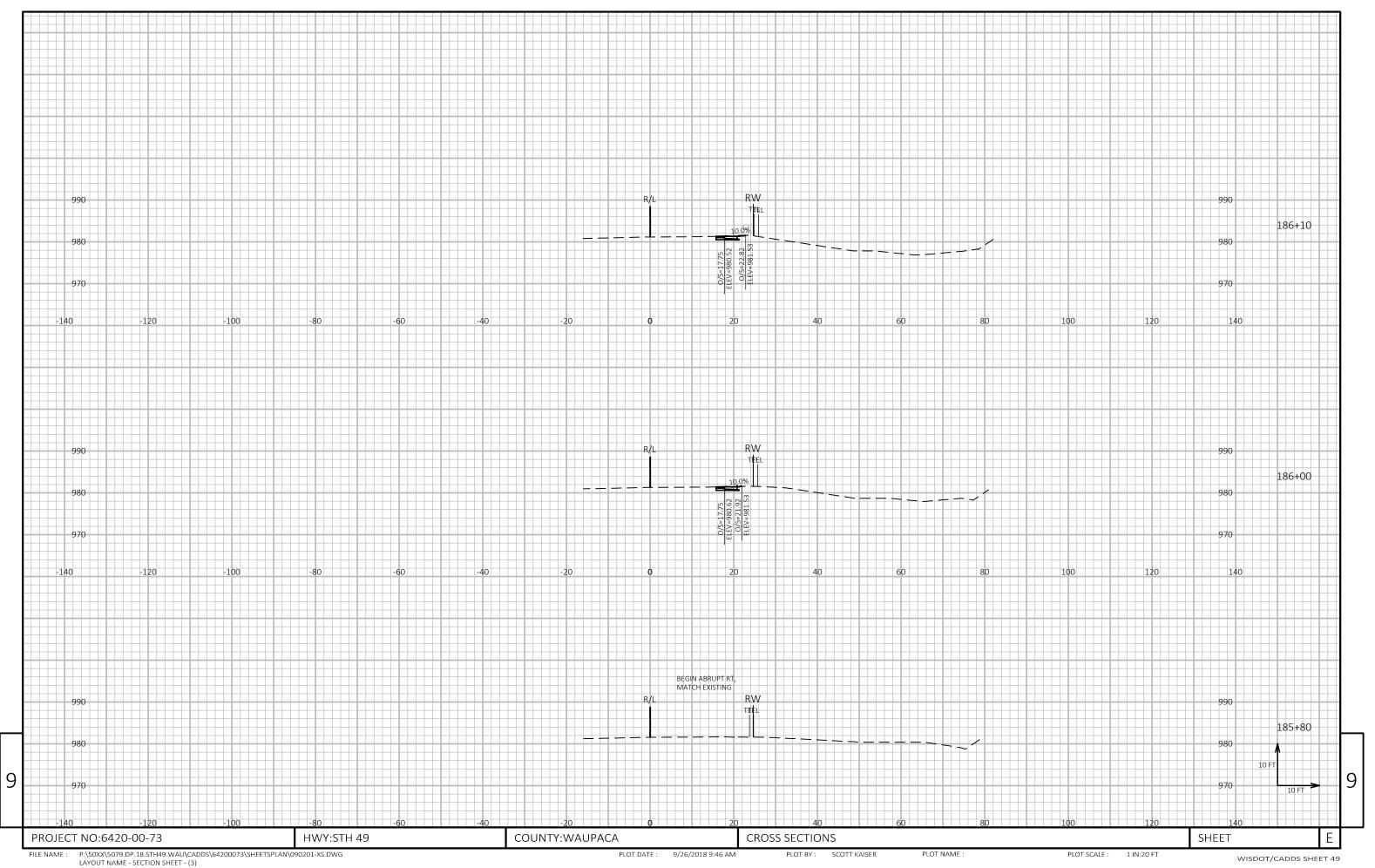
PLOT BY: mscj9h

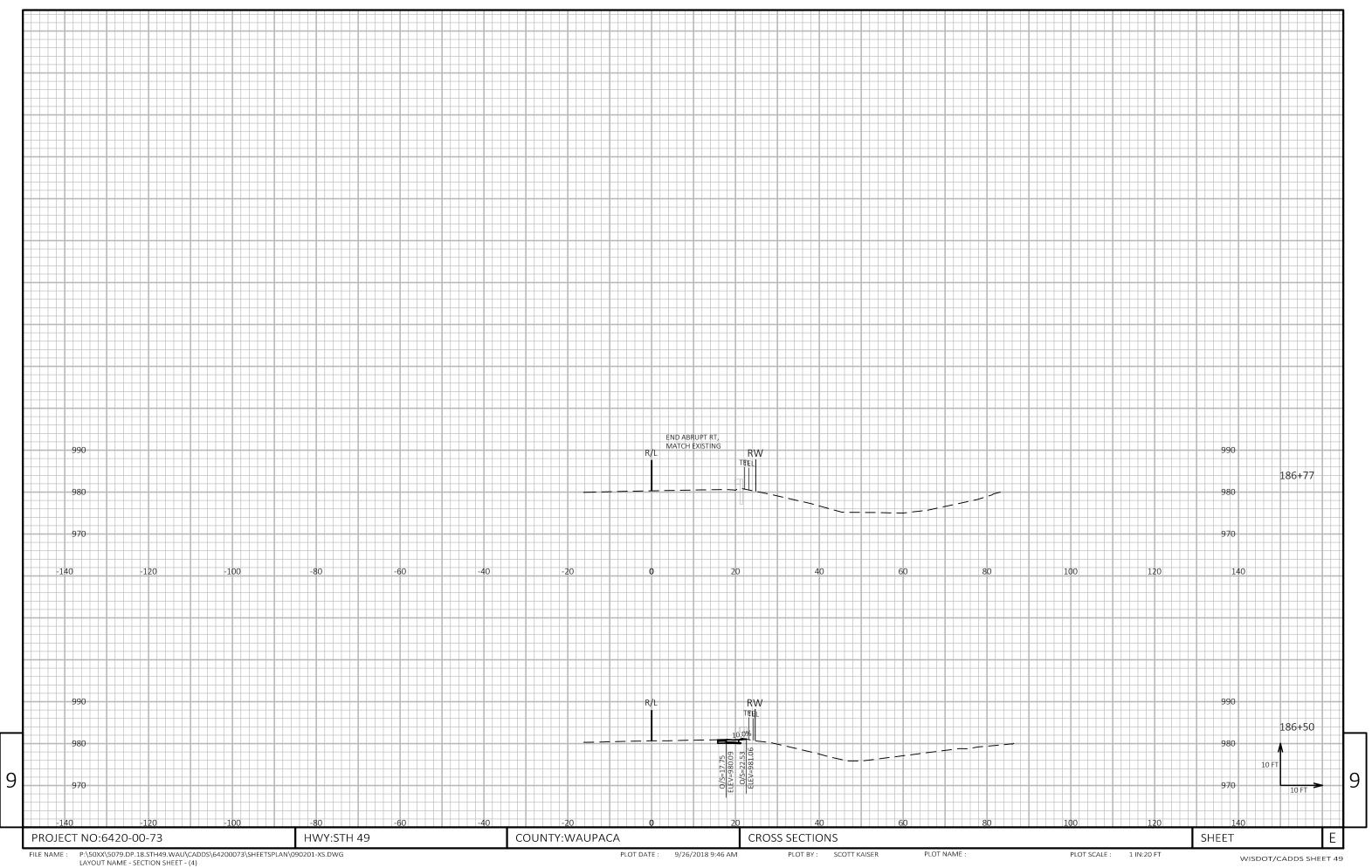
PLOT NAME :

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

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