

LAX
PROJECT ID:
WITH: N/A

5069-00-70

COUNTY:
LA CROSSE

NOVEMBER 2024

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 86



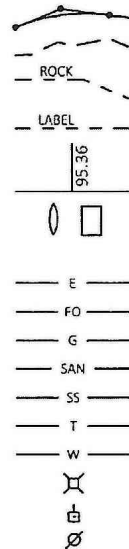
DESIGN DESIGNATION 5069-00-00

A.A.D.T.	2025	=	500
A.A.D.T.	2045	=	550
D.H.V.		=	N/A
D.D.		=	50/50
T.		=	2%
DESIGN SPEED		=	30 MPH, 60 MPH
ESALS		=	15,000

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

IH 90 - CTH J (CTH B)

IH 90 TO CTH J

CTH B

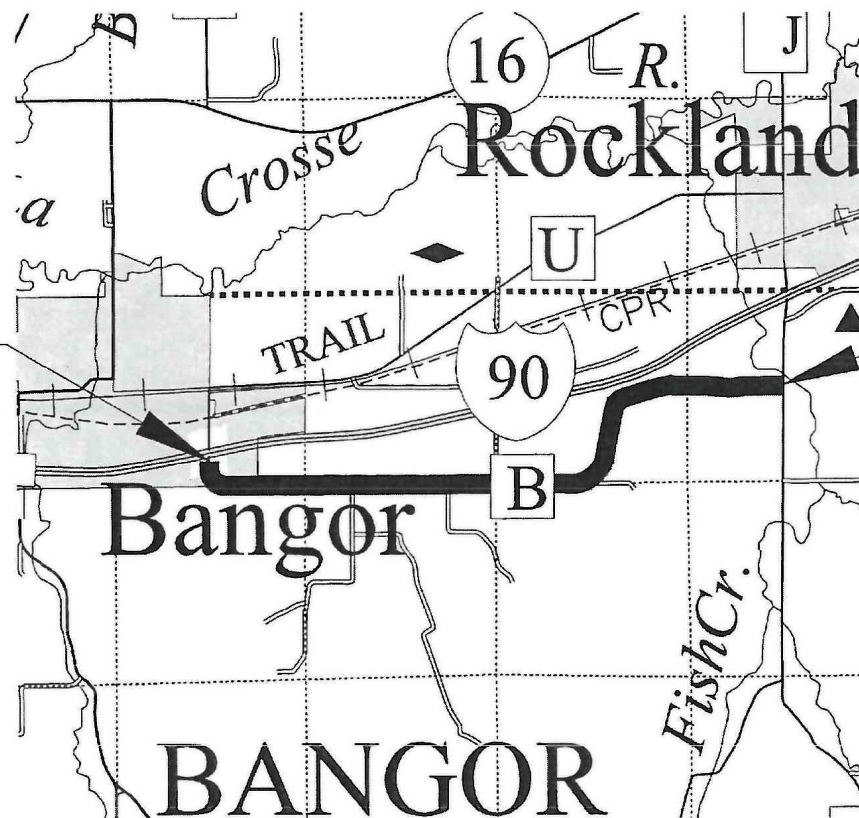
LA CROSSE COUNTY

STATE PROJECT NUMBER

5069-00-70

BEGIN PROJECT
STA 59+66
X= 158,960.987
Y= 516,615.334

END PROJECT
STA 241+56



LAYOUT
SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 3.445 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), LA CROSSE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18

STATE PROJECT

5069-00-70

FEDERAL PROJECT

PROJECT

WISC 2025077

CONTRACT

1

ACCEPTED FOR

LA CROSSE COUNTY

Date 7-23-24

County Highway Commissioner

ORIGINAL PLANS PREPARED BY

origin
design

WORKING ON TOMORROW.

800 556-4491
origindesign.com



7/23/2024

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	ORIGIN DESIGN
Designer	ORIGIN DESIGN
Project Manager	JOSH SCHOENMANN, P.E.
Regional Examiner	SW REGION
Regional Supervisor	KYLE HEMP, P.E.

APPROVED FOR THE DEPARTMENT

DATE: 7/23/24

(Signature)

E

GENERAL NOTES

SEE TITLE SHEET FOR COORDINATE AND ELEVATION REFERENCES.

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS REMOVAL IS FIRST APPROVED BY THE ENGINEER IN THE FIELD.

DETAILS OF CONSTRUCTION NOT SHOWN IN THE PLANS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. REFER TO THE SPECIAL PROVISIONS FOR A LISTING OF APPROXIMATE LOCATIONS BASED ON INFORMATION PROVIDED BY THE UTILITIES.

THE ENGINEER SHALL ADJUST THE LOCATIONS OF POSTS FOR SIGN INSTALLATIONS UNDER THIS CONTRACT TO AVOID CONFLICT WITH THE EXISTING UTILITY FACILITIES

ACCESS SHALL BE MAINTAINED TO ALL ADJACENT PROPERTIES.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT ASPHALTIC SURFACE LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING OR TURNING LANE.

ASPHALTIC SURFACE WEIGHT CALCULATIONS ARE BASED ON 115 LB/SY/IN.

THE 4" ASPHALTIC SURFACE ITEMS SHALL BE PLACED WITH A 1 ¾ -INCH UPPER LAYER AND A 2 ¼ -INCH LOWER LAYER.

THE EXACT LOCATION AND WIDTH OF DRIVEWAY MILLING AND HMA PAVEMENT SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. DRIVEWAYS SHALL BE REPLACED IN KIND. REFER TO 2-SERIES CONSTRUCTION DETAIL SHEET FOR ASSUMED LIMITS OF RECONSTRUCTION BASED ON COUNTY POLICY FOR DRIVEWAY REPLACEMENTS.

WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE, SUBBASE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE PROPOSED SHOULDER WIDTH SHOWN IN THE TYPICAL SECTIONS ARE MINIMUM WIDTH. PERPETUATE EXISTING SHOULDER

SAWCUTS, AS SHOWN ON THE PLANS, ARE SUGGESTED LOCATIONS AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER TO BETTER SUIT FIELD CONDITIONS. ANY SAWCUT USED WILL BE CONSIDERED INCIDENTAL TO THE ITEM "REMOVING ASPHALTIC SURFACE, BUTT JOINTS."

REFER TO SPECIAL PROVISIONS FOR REQUIREMENTS ON TRAFFIC AND LOCAL ACCESS FOR PROPERTY OWNERS ALONG THE CORRIDOR.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY THEIR OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

CHEVRON SIGNS SHALL BE MOUNTED AT A 4-FOOT MINIMUM (MEASURED FROM THE BOTTOM OF SIGN TO THE ELEVATION OF THE NEAR EDGE OF TRAVELED WAY). THEY SHALL BE AIMED TOWARD TRAFFIC RATHER THAN LOCATED PERPENDICULAR TO THE CURVE.

DESIGN CONSULTANT

ORIGIN DESIGN CO.
NOAH J. HOFRICHTER, P.E.
PROJECT ENGINEER
137 MAIN STREET
DUBUQUE, IA 52001
563-556-2464
NOAH.HOFRICHTER@
ORIGINDESIGN.COM

COUNTY CONTACT

LA CROSSE COUNTY
JOSEPH LANGEBERG, P.E.
HIGHWAY COMISSIONER
301 CARLSON ROAD
WEST SALEM, WI 54669-9332
608-786-3810
JLANGEBERG@LACROSSE
COUNTY.ORG

WISCONSIN DNR LIASON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
KAREN KALVELAGE
ENVIRONMENTAL ANALYSIS, REVIEW, AND SUSTAINABILITY
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
608-785-9115
KAREN.KALVELAGE@WISCONSIN.GOV

ABBREVIATIONS

AC	ACRE	HE	HORIZONTAL ELLIPTICAL
AADT	ANNUAL AVERAGE DAILY TRAFFIC	INL	INLET
ASPH	ASPHALTIC	INV	INVERT
AEW	APRON END WALL	LT	LEFT
BEG	BEGINNING	L	LENGTH OF CURVE
BM	BENCHMARK	LF	LINEAR FOOT
BR	BRIDGE	PLE	PERMANENT LIMITED EASEMENT
CL	CENTERLINE	PC	POINT OF CURVATURE
CE	COMMERCIAL ENTRANCE	PCC	POINT OF COMPOUND CURVATURE
CEN	CENTER	PI	POINT OF INTERSECTION
CONC	CONCRETE	PRC	POINT OF REVERSE CURVATURE
CMCP	CORRUGATED METAL CULVERT PIPE	PT	POINT OF TANGENCY
CTH	COUNTY TRUNK HIGHWAY	PE	PRIVATE ENTRANCE
CR	CREEK	R/RAD	RADIUS
CABC	CRUSHED AGGREGATE BASE COURSE	RL	REFERENCE LINE
CY	CUBIC YARD	REQ'D	REQUIRED
CULV	CULVERT	STH	STATE TRUNK HIGHWAY
CPRC	CULVERT PIPE REINFORCE CONCRETE	STA	STATION
D	DEGREE OF CURVE	SF	SQUARE FEET
DHV	DESIGN HOURLY VOLUME	SY	SQYARE YARD
DIA	DIAMETER	SDD	STANDARD DETAIL DRAWINGS
DD	DIRECTIONAL DISTRIBUTION	SE	SUPERELEVATION
DWY	DRIVEWAY	TLE	TEMPORARY LIMITED EASEMENT
ELEC	ELECTRIC	T	TON
EL OR ELV	ELEVATION	VPC	VERTICAL POINT OF CURVE
ESALS	EQUIVALENT SINGLE AXLE LOADS	VPI	VERTICAL POINT OF INTERSECTION
EXIST	EXISTING	VPT	VERTICAL POINT OF TANGENCY
FE	FIELD ENTRANCE	VCL	VERTICAL CURVE LENGTH
FL	FLOW LINE	W	WALL
CWT	HUNDREDWEIGHT		

UTILITIES

COMMUNICATIONS
BRIGHTSPEED OF CENTRAL WISCONSIN, LLC
1905 WARD AVENUE
LA CROSSE, WI 54601
BRIAN STELPLUGH
(608) 615-4136
BRIAN.STELPLUGH@BRIGHTSPEED.COM

CHARTER COMMUNICATIONS (FACILITIES ALONG DETOUR ROUTE ONLY)
1228 12TH AVE S
ONALASKA, WI 54650
TELEPHONE: 608-317-6213
ATTENTION: PERRY McCLELLAN
EMAIL: PERRY.MCCLELLAN@CHARTER.COM

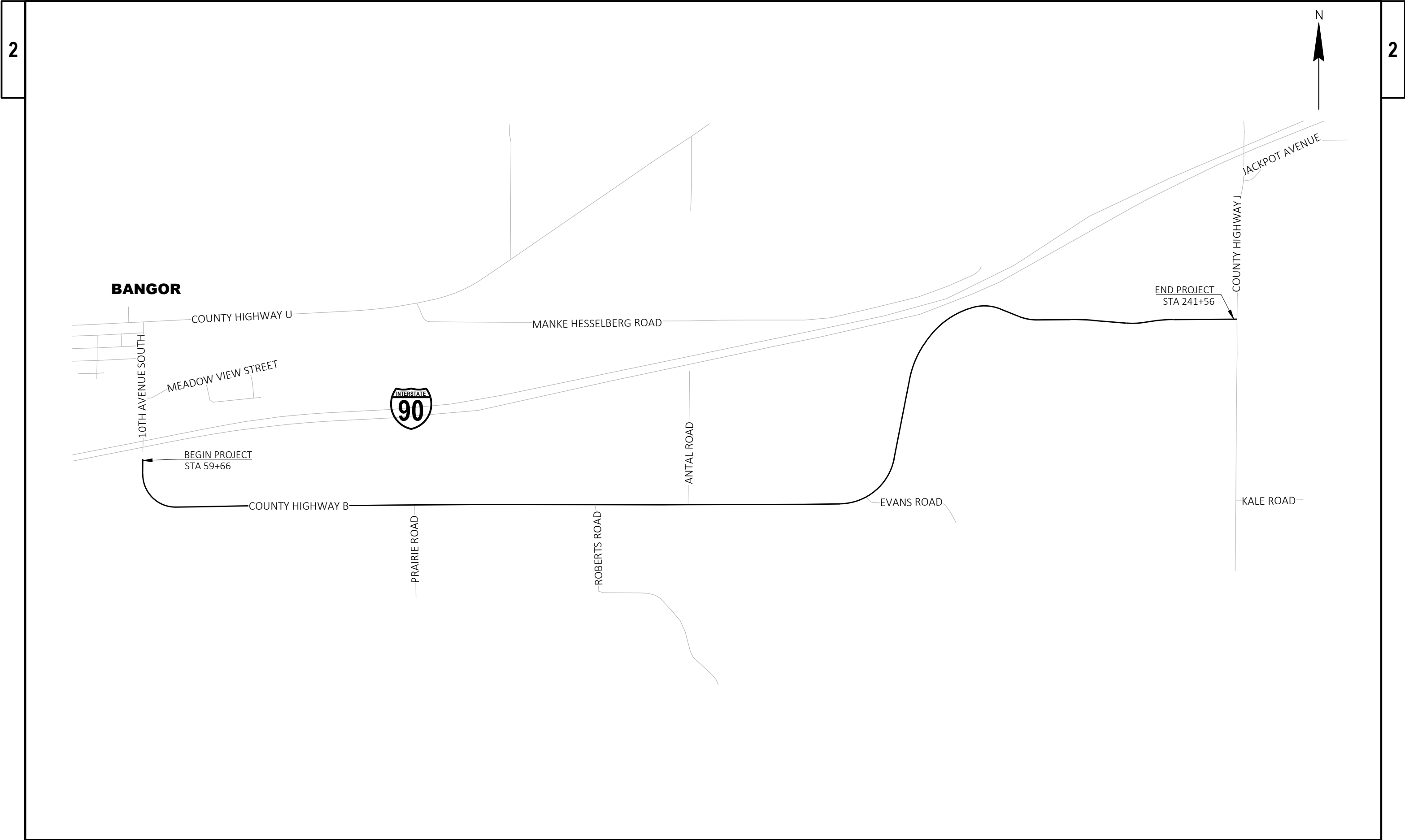
COON VALLEY FARMERS TELEPHONE COMPANY
105 CENTRAL AVE
COON VALLEY, WI 54623
BRADLEY PETERS
(608) 452-3101
BRADLEY.PETERS@COONVALLEYTEL.COM

ELECTRICAL
VILLAGE OF BANGOR
106 15TH AVENUE NORTH
BANGOR, WI 54614
TELEPHONE: 608-486-2151
ATTENTION: PAT REILLEY, UTILITIES MANAGER
EMAIL: PREILLEY@VILLAGEOFBANGOR.COM

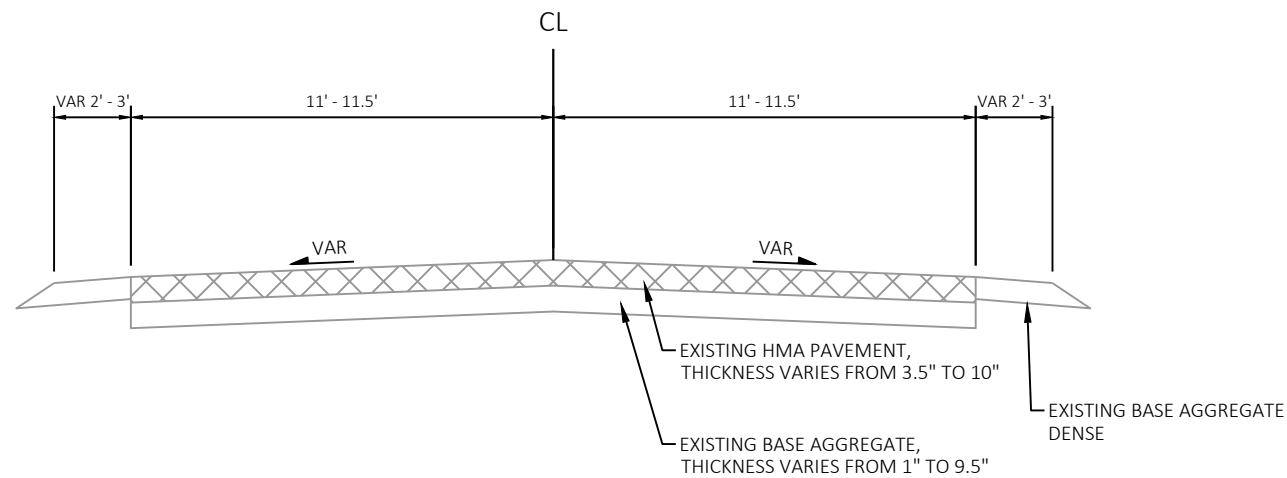


Dial  or (800)242-8511

www.DiggersHotline.com



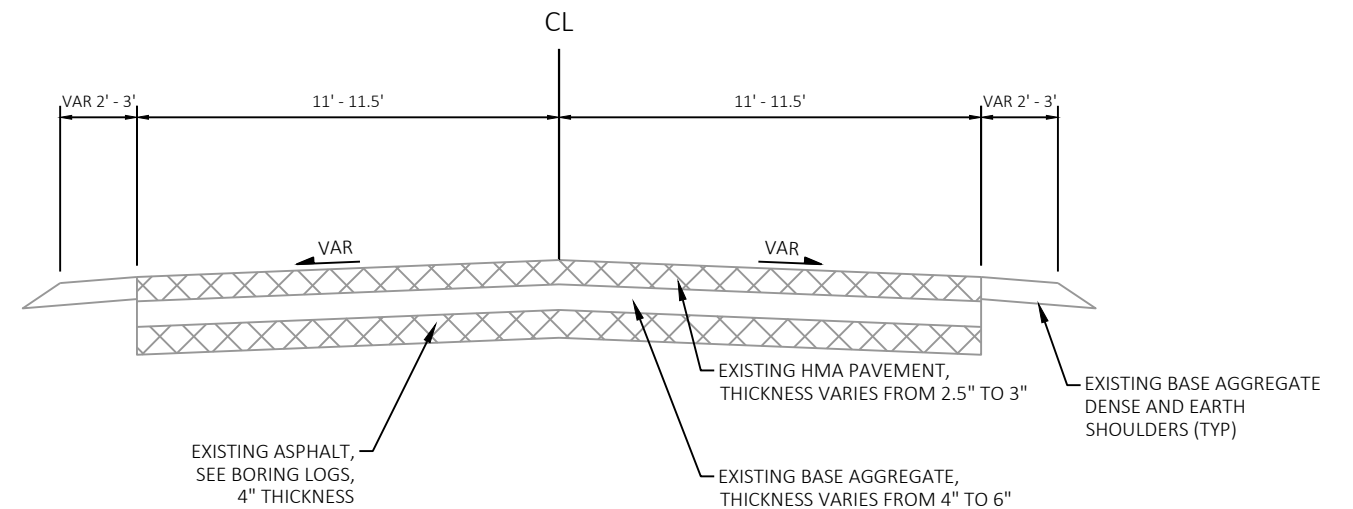
PROJECT NO: 5069-00-70	HWY: CTH B	COUNTY: LA CROSSE	PROJECT OVERVIEW	SHEET 3	E
------------------------	------------	-------------------	------------------	---------	---



EXISTING TYPICAL SECTION - CTH B
BASED ON SOIL BORINGS B-1 TO B-4 AND B-7 TO B-8*

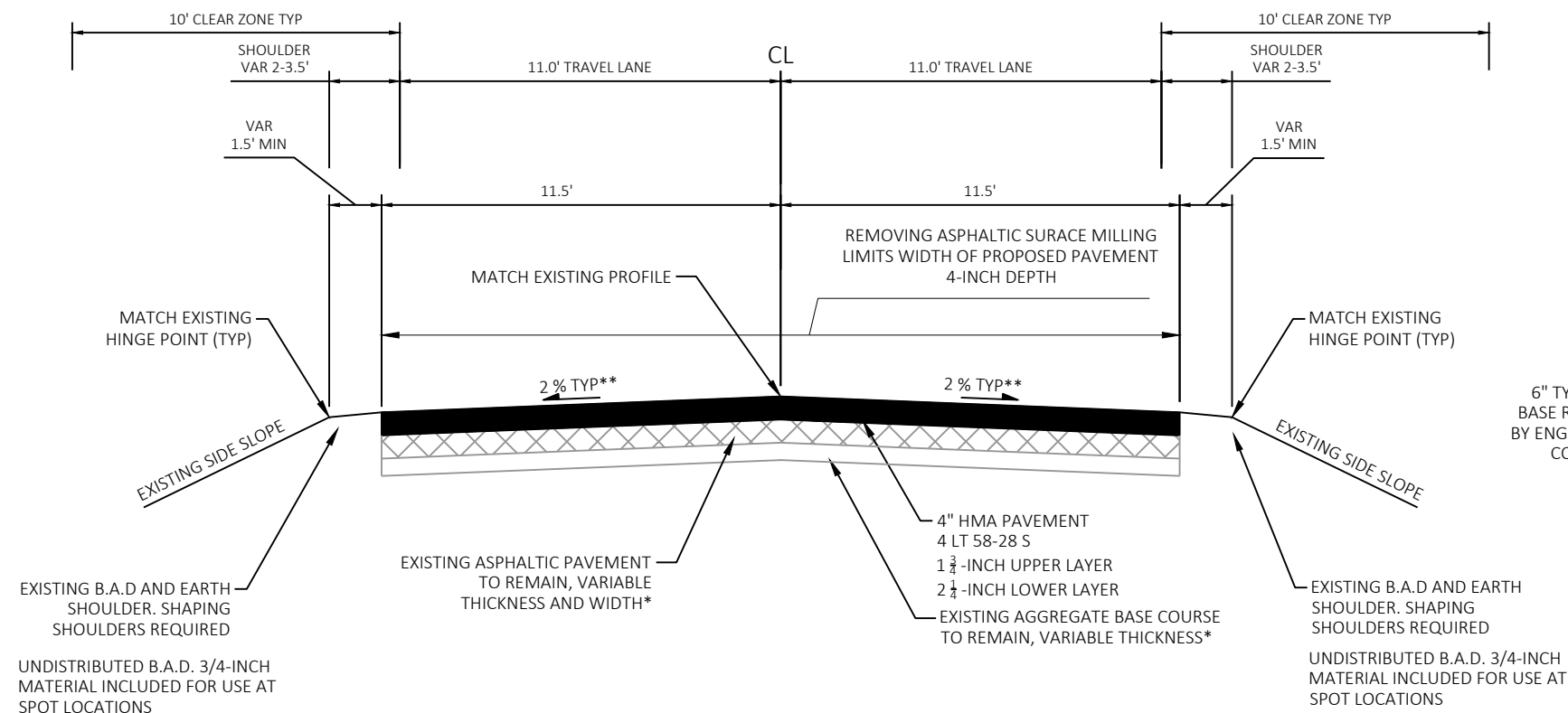
STA 59+66 TO 153+60
STA 200+90 TO 241+56

*NOTE: EXISTING TYPICAL SECTIONS COVER OVERALL PROJECT STATION RANGE FROM STA 59+66 TO 241+56. LAYER TYPES AND THICKNESS ARE BASED ON BORING DATA AT SPOT LOCATIONS AS INDICATED FOR EACH SECTION. EXACT TRANSITION POINTS BETWEEN THESE BORINGS IS NOT KNOWN. AND NOTED STATIONS ARE CONSIDERED AN ESTIMATE. SEE 2-SERIES SOIL BORING SHEETS AND 5-SERIES SHEETS FOR BORING LOCATIONS.



EXISTING TYPICAL SECTION - CTH B
BASED ON SOIL BORINGS B-5 AND B-6*

STA 153+60 TO 200+90



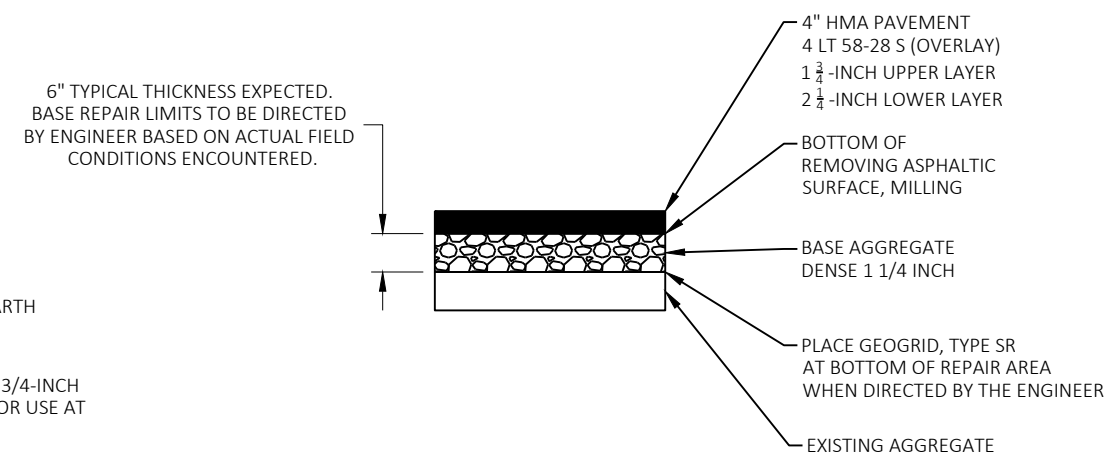
FINISHED TYPICAL SECTION - CTH B

STA 59+66 TO STA 241+56

NOTE: INSTALL EDGELINE PAVEMENT MARKINGS 11' FROM CENTERLINE

*SEE EXISTING CTH B PAVEMENT BORING LOGS FOR EXISTING PAVEMENT STRUCTURE LAYER THICKNESS DETAILS.

** MATCH EXISTING SUPERELEVATION AT HORIZONTAL CURVES



DETAIL AT BASE REPAIR LOCATIONS

LOCATIONS TO BE DETERMINED BY THE ENGINEER

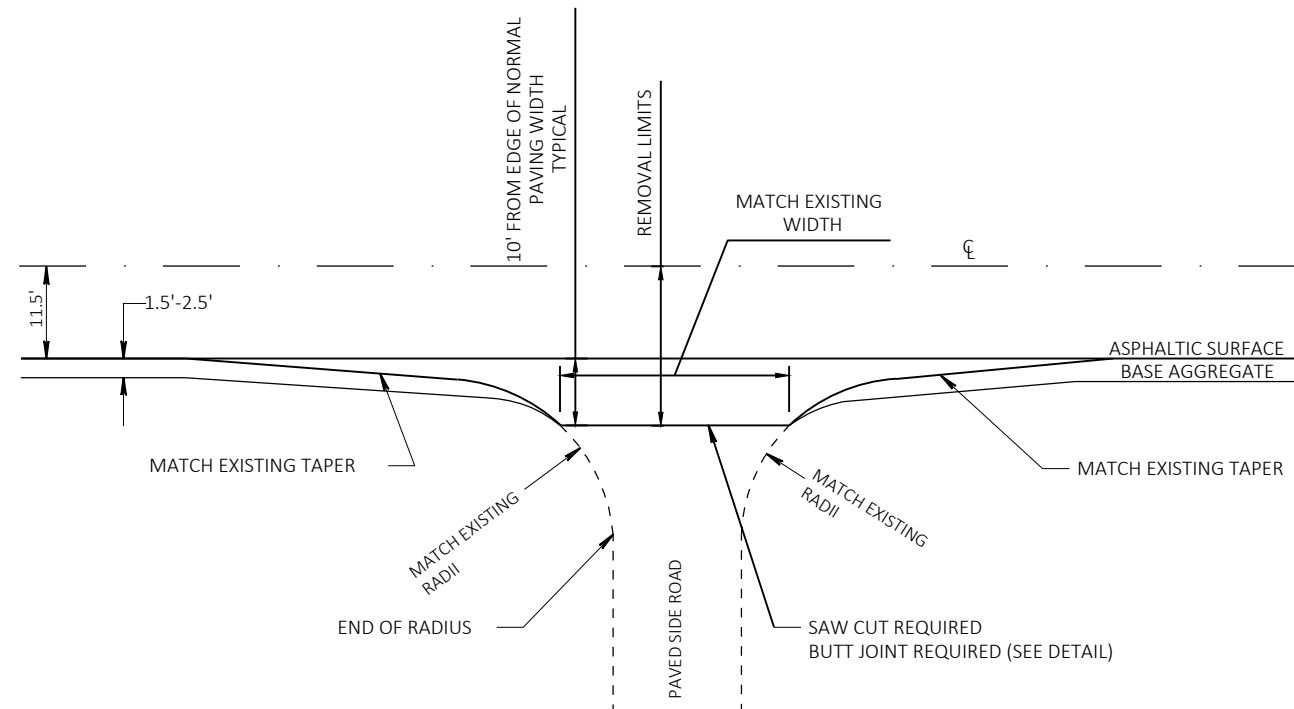
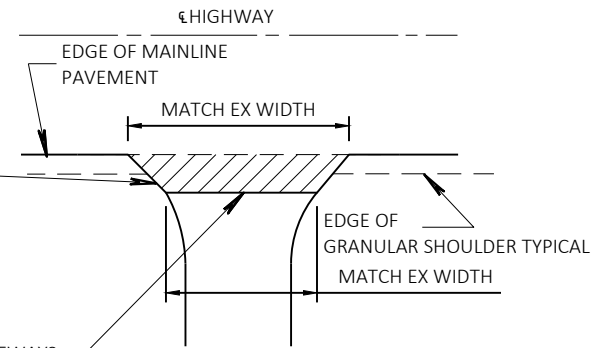
LIMITS: 3-FEET FROM EDGE OF PAVED SHOULDER (14.5- FEET OFF CENTERLINE) TYPICAL, 5-FOOT MAXIMUM FROM EDGE OF PAVEMENT, MILLING AND HMA THICKNESS TO MATCH MAINLINE THICKNESS. NEW SURFACE PAID AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES.

FOR EXISTING ASPHALT DRIVEWAYS ONLY: MILLING LIMITS AT DRIVEWAY. SAW CUT REQUIRED. MILLING ASPHALTIC SURFACE BUTT JOINTS REQUIRED.

SHOULDER BUMP OUT DETAIL DRIVEWAYS AND FIELD ENTRANCES

DETAIL APPLIES AT BOTH PAVED AND UNPAVED DRIVEWAYS AND FIELD ENTRANCES. ALL BUMP OUTS TO BE REPLACED WITH ASPHALTIC SURFACE FOR THE BUMP OUT REGARDLESS OF EXISTING SURFACING TYPE.

NOTE: AT UNPAVED DRIVEWAYS AND FIELD ENTRANCES, WORK NECESSARY TO BLADE, REMOVE, AND/OR RESTORE EXISTING GRANULAR OR EARTHEN DRIVEWAY MATERIAL NECESSARY TO PROVIDE AN AREA FOR PLACEMENT OF SHOULDER BUMP OUTS IS CONSIDERED A PART OF THE SHAPING SHOULDERS CONTRACT ITEM. AT DRIVEWAYS WHERE THE EXISTING DRIVEWAY MATERIAL IS GRAVEL, ADDITIONAL BASE AGGREGATE DENSE 3/4-INCH MATERIAL PAID UNDER THE ASSOCIATED BID ITEM MAY BE USED AS BACKFILL ADJACENT TO PAVING IF APPROVED BY THE ENGINEER.

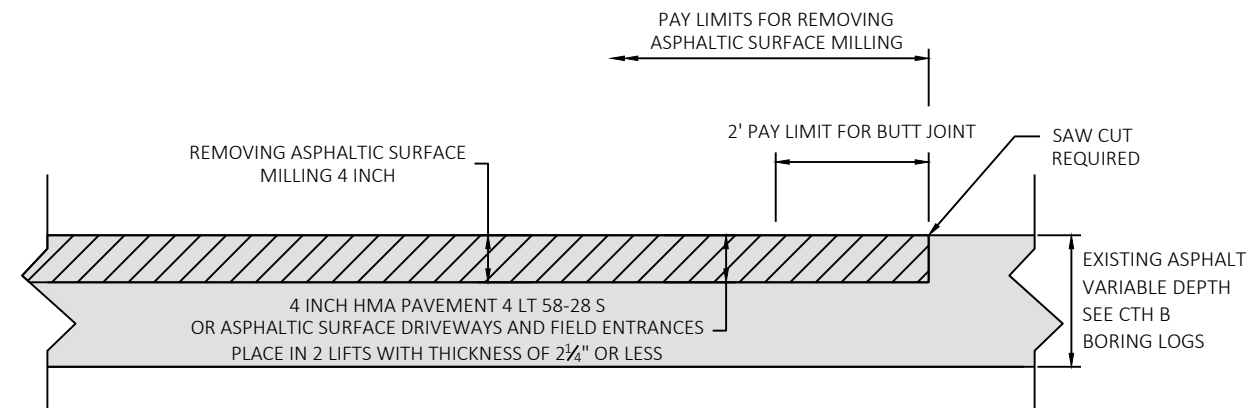


TYPICAL SIDE ROAD DETAIL

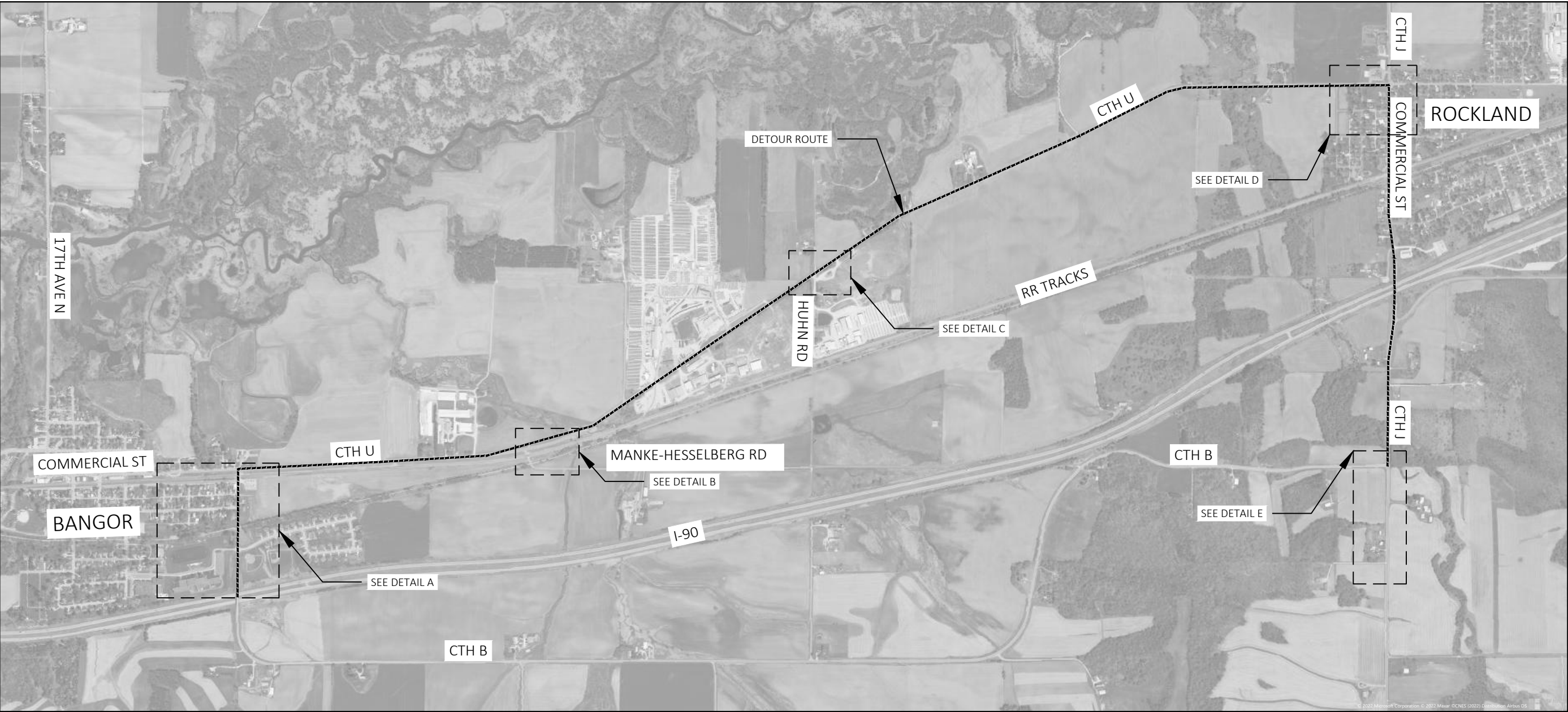
PRAIRIE ROAD
ROBERTS ROAD
ANTAL ROAD
EVANS ROAD

REMOVE MATERIAL UNDER ITEM 'REMOVING ASPHALT SURFACE , BUTT JOINTS' MATERIAL SHALL NOT BE REMOVED UNDER THIS ITEM UNTIL 24 HOURS BEFORE SIDEROAD PAVING.

NOTE: ANY SAWCUT USED WILL BE CONSIDERED INCIDENTAL TO THE ITEM "REMOVING ASPHALTIC SURFACE, BUTT JOINTS."



PAVEMENT BUTT JOINT DETAIL



TRAFFIC CONTROL NOTES:

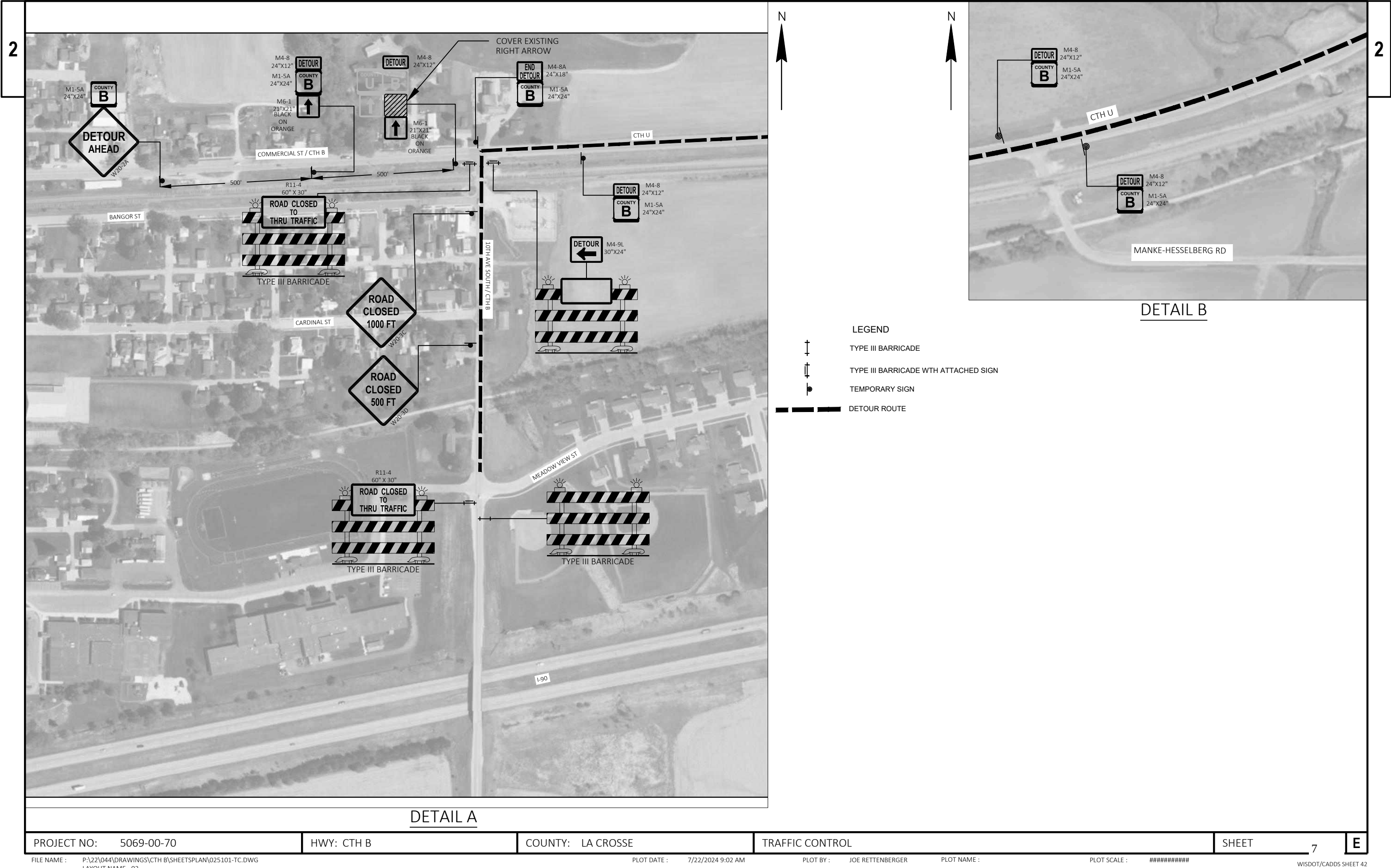
ALL THROUGH TRAFFIC ON CTH B BETWEEN I-90 AND CTH J SHALL BE DETOURED.

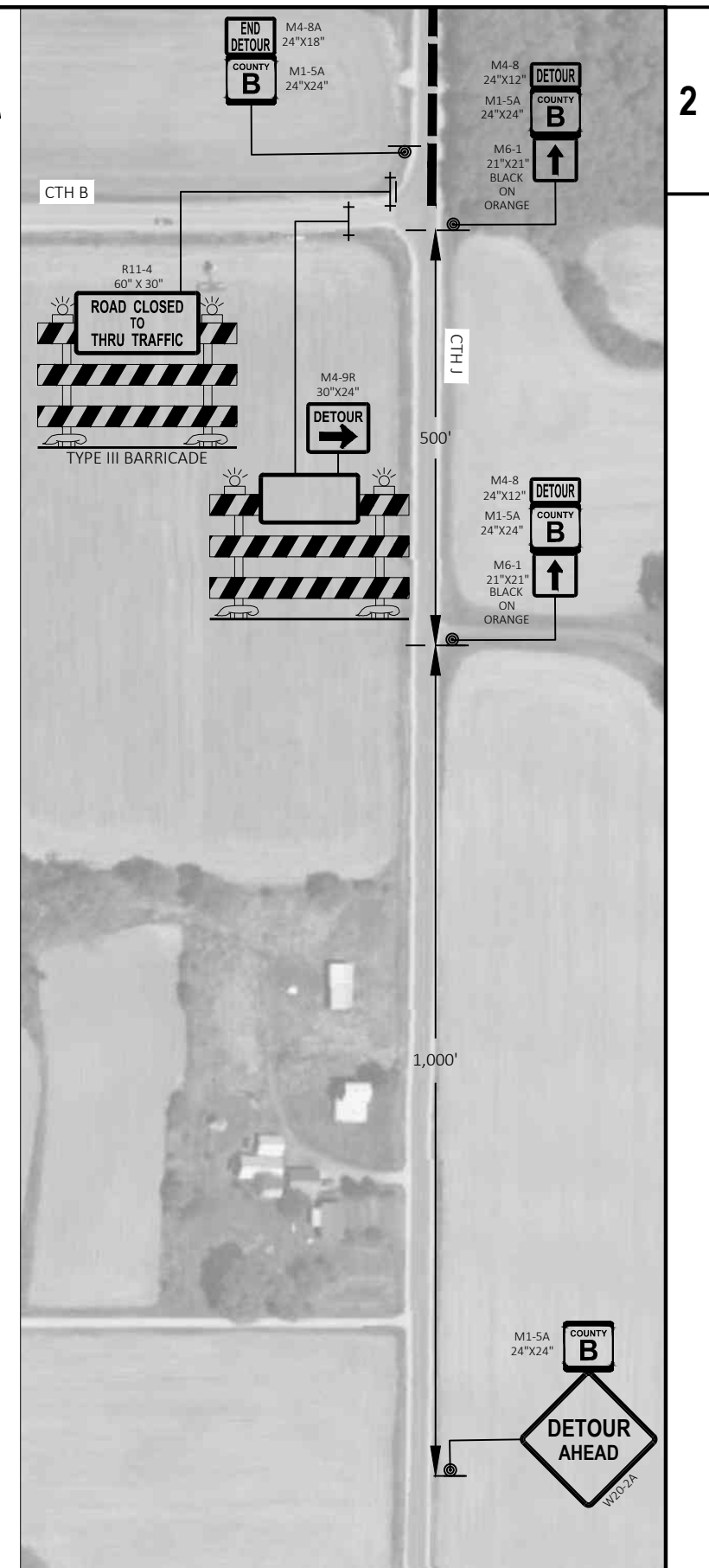
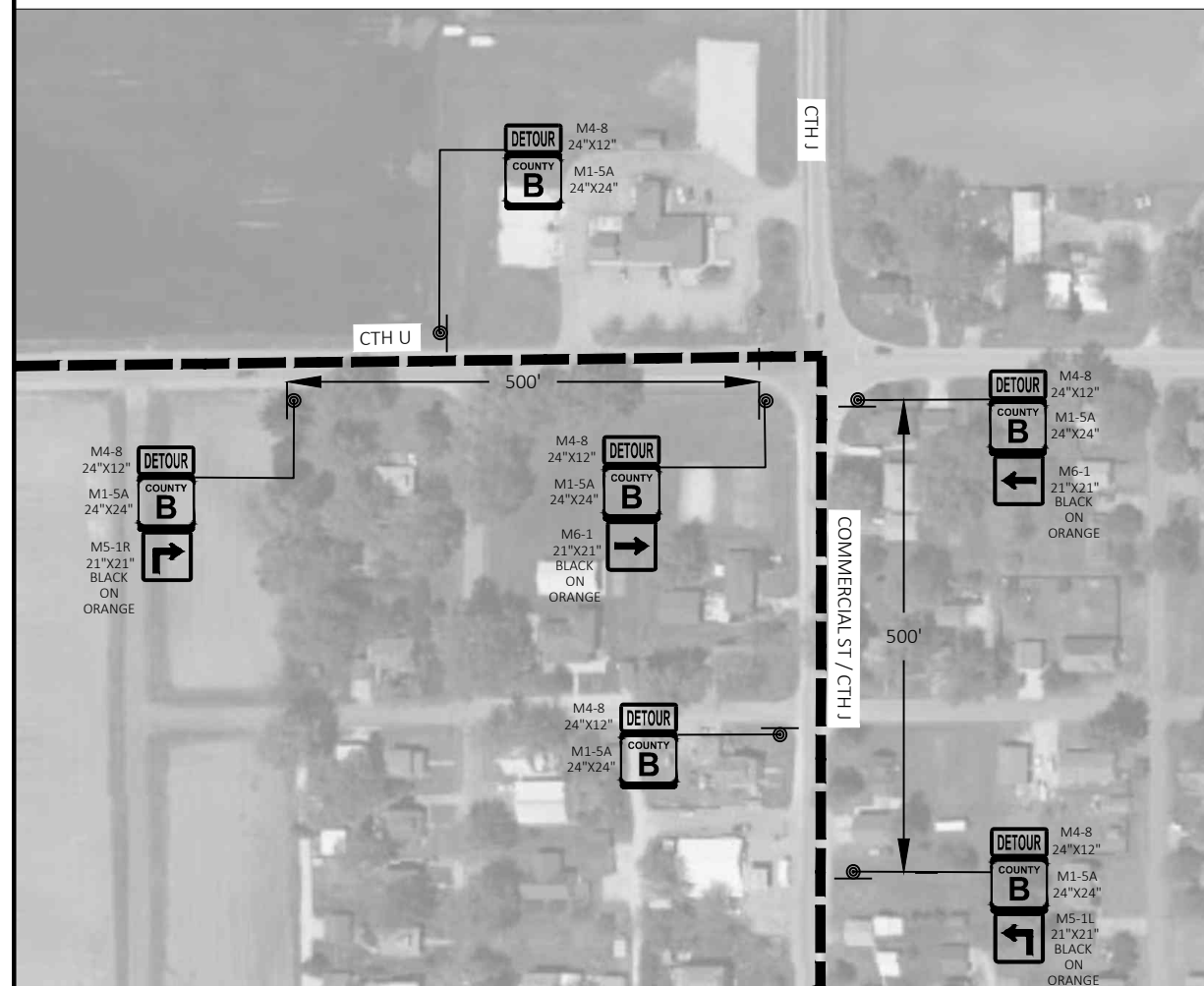
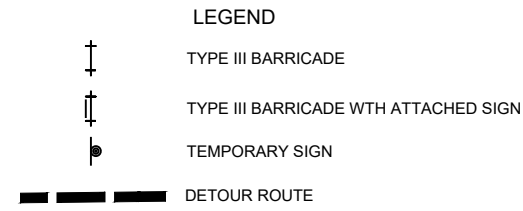
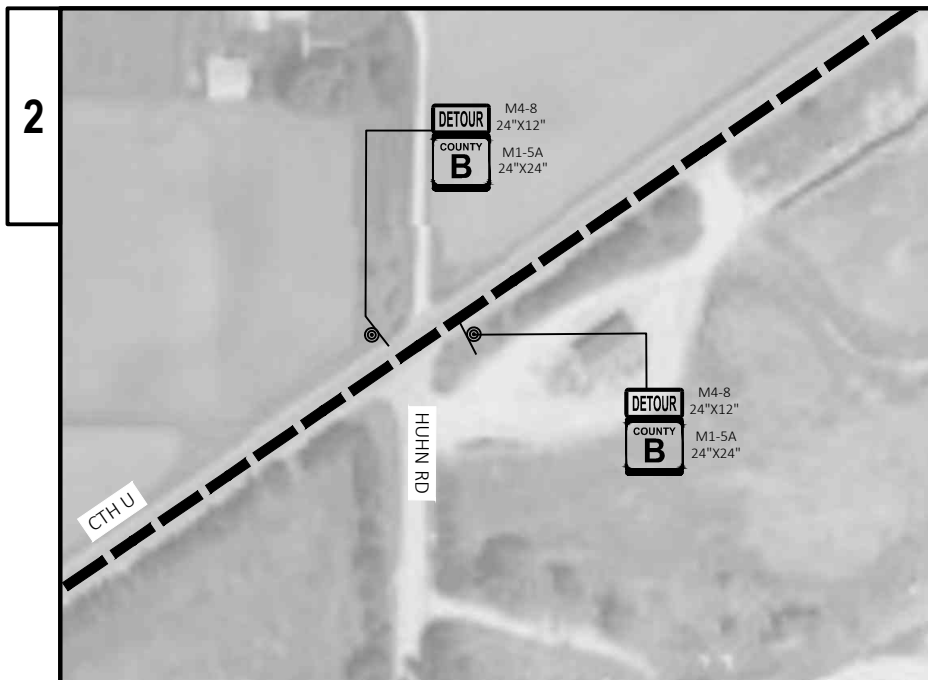
ACCESS FOR LOCAL TRAFFIC, EMERGENCY VEHICLES, MAIL DELIVERY, AND SOLID WASTE PICKUP ON CTH B SHALL BE MAINTAINED.

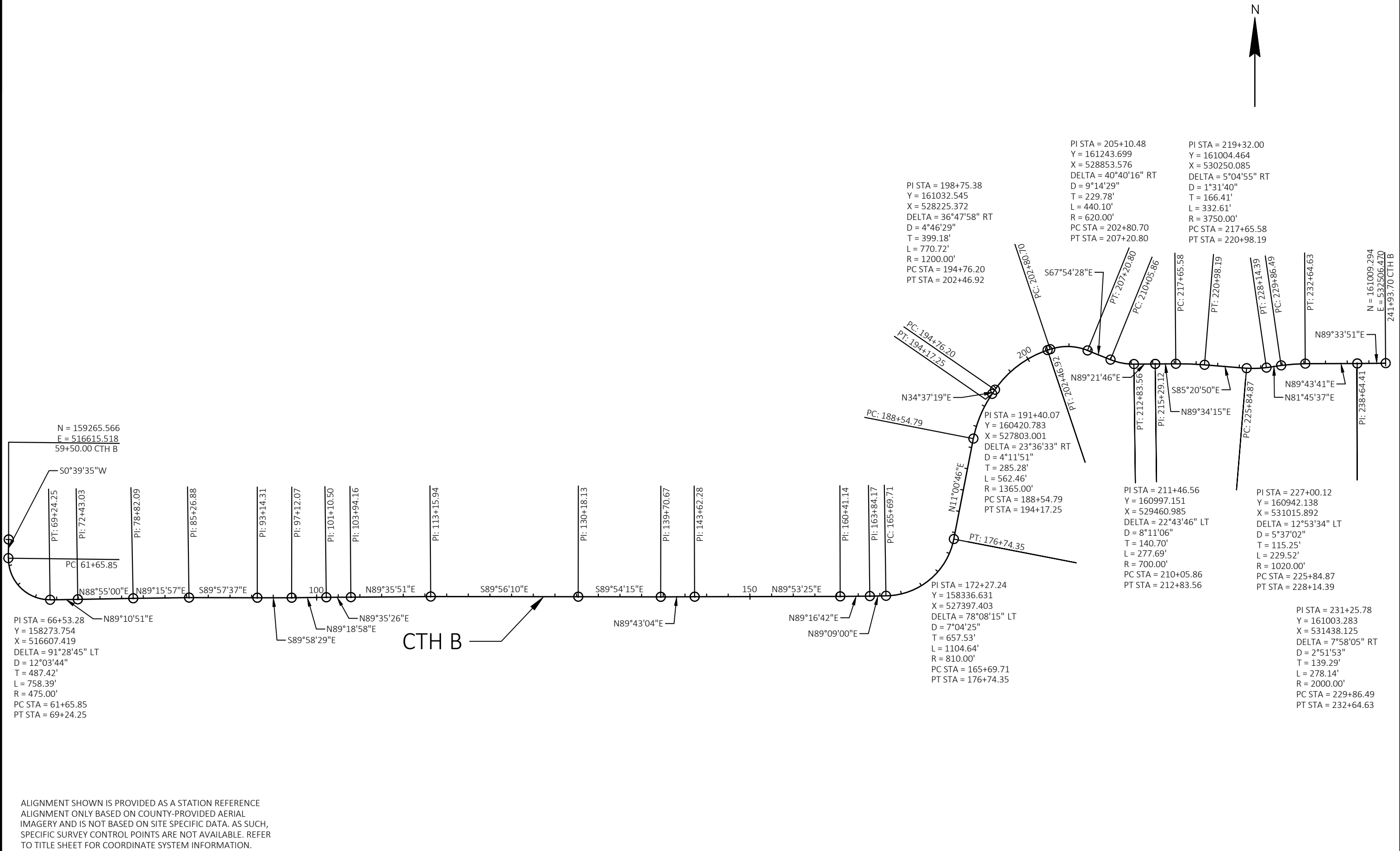
FOLLOW SDD 15C4 FOR ADVANCE WARNING SIGNS, EXCEPT THE G20-1 SIGN IS NOT REQUIRED.

FOLLOW SDD 15C12 DURING MILLING AND PAVING OPERATIONS. TEMPORARY RUMBLE STRIPS ARE NOT REQUIRED. SIGN LOCATIONS SHOULD MOVE DAILY AS OPERATIONS PROGRESS ALONG THE ROADWAY.

IF ALL WORK CANNOT BE PERFORMED WHILE THE DETOUR IS INSTALLED, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO ALLOW OPERATIONS TO OCCUR UNDER TRAFFIC.







PROJECT NO:	5069-00-70	HWY: CTH B	COUNTY: LA CROSSE	ALIGNMENT DETAILS	SHEET	9	E
-------------	------------	------------	-------------------	-------------------	-------	---	---

NOTE: SEE 5-SERIES PLAN SHEETS FOR APPROXIMATE LOCATIONS OF BORINGS. LOCATIONS ESTIMATED ONLY.

2

LOG OF BORING

CHOSEN VALLEY TESTING



PROJECT: 18151.21.WIL Design Phase Geotechnical Evaluation Proposed Road Improvements CTH B from IH 90 to CTH J La Crosse County, Wisconsin				BORING: B-1		
				LOCATION: See attached sketch		
				DATE: 5/6/2021	SCALE: 1" = 1'	
Elev.	Depth	USCS Symbol	Description of Materials (ASTM D 2487/2488)	BPF	WL	Tests and Notes
788.9	0.0		6" ASPHALT			Elevations provided by SEH.
788.4	0.5		7" AGGREGATE BASE			
787.8	1.1	SP	POORLY GRADED SAND fine grained, orangish brown, moist. (Fill)			
787.3	1.6	SM	SILTY SAND fine grained, brown, moist, medium dense. (Alluvium)			
786.4	2.5	SP	POORLY GRADED SAND fine grained, yellowish brown, moist, medium dense to dense. (Residium)	37		
				27		
782.9	6.0		End of boring. Boring sealed upon completion.			

18151.21.WIL

B-1 page 1 of 1

18151.21.WIL

B-1 page 1 of 1

2

LOG OF BORING

CHOSEN VALLEY TESTING



PROJECT: 18151.21.WIL Design Phase Geotechnical Evaluation Proposed Road Improvements CTH B from IH 90 to CTH J La Crosse County, Wisconsin				BORING: B-2		
				LOCATION: See attached sketch		
				DATE: 5/6/2021	SCALE: 1" = 1'	
Elev.	Depth	USCS Symbol	Description of Materials (ASTM D 2487/2488)	BPF	WL	Tests and Notes
788.0	0.0		10" ASPHALT			PP = 0.5 tsf, MC = 14.6%
787.2	0.8					
787.1	0.9	CL ML	1" AGGREGATE BASE SILTY CLAY brown, wet. (Fill)			
786.6	1.4	CL ML	SILTY CLAY with SAND brown, wet, rather soft. (Alluvium)			
				4		
784.0	4.0	SP	POORLY GRADED SAND seams of silty sand, fine grained, light brown, moist, loose. (Alluvium)			
				7		
782.0	6.0					
			End of boring. Boring sealed upon completion.			

18151.21.WIL

B-2 page 1 of 1

18151.21.WIL

B-2 page 1 of 1

PROJECT NO: 5069-00-70

HWY: CTH B

COUNTY: LA CROSSE

SOIL BORINGS

SHEET

10

E

FILE NAME : P:\22\044\DRAWINGS\CTH B\SHEETS\PLAN\020101-SB.DWG
LAYOUT NAME - Plan 1 IN 20 FT

PLOT DATE : 7/22/2024 9:02 AM

PLOT BY : JOE RETTENBERGER

PLOT NAME :

PLOT SCALE : Custom

WISDOT/CADDs SHEET 42

NOTE: SEE 5-SERIES PLAN SHEETS FOR APPROXIMATE LOCATIONS OF BORINGS. LOCATIONS ESTIMATED ONLY.

2

LOG OF BORING

CHOSEN VALLEY TESTING



PROJECT: 18151.21.WIL Design Phase Geotechnical Evaluation Proposed Road Improvements CTH B from IH 90 to CTH J La Crosse County, Wisconsin				BORING: B-3		
				LOCATION: See attached sketch		
				DATE: 5/6/2021	SCALE: 1" = 1'	
Elev.	Depth	USCS Symbol	Description of Materials (ASTM D 2487/2488)	BPF	WL	Tests and Notes
765.2	0.0		6" ASPHALT			
764.7	0.5		8" AGGREGATE BASE			
764.0	1.2					
763.5	1.7	SP SM	POORLY GRADED SAND with SILT fine grained, orangish brown, moist. (Fill)			
		ML	SILT with SAND gray, wet, rather stiff. (Fill)			
				9		PP = 2.5 tsf, MC = 17.2%
761.2	4.0					
		CL ML	SILTY CLAY brown gray and black mixed, wet, very stiff. (Fill)			
				20		PP = 4.5 tsf, MC = 20.3%
759.2	6.0					
			End of boring. Boring sealed upon completion.			

18151.21.WIL

B-3 page 1 of 1

CVT STANDARD 18151.21.WIL (LAX CTH B).GPJ LOG A GNN06.GDT 5/14/21

18151.21.WIL

B-3 page 1 of 1

LOG OF BORING

CHOSEN VALLEY TESTING



PROJECT: 18151.21.WIL Design Phase Geotechnical Evaluation Proposed Road Improvements CTH B from IH 90 to CTH J La Crosse County, Wisconsin				BORING: B-4 LOCATION: See attached sketch		
				DATE: 5/6/2021	SCALE: 1" = 1'	
Elev.	Depth	USCS Symbol	Description of Materials (ASTM D 2487/2488)	BPF	WL	Tests and Notes
788.9	0.0		7.5" ASPHALT			
788.3	0.6		6.5" AGGREGATE BASE			
787.7	1.2					
787.2	1.7	CL ML	SILTY CLAY black, wet. (Fill)			
		CL ML	SILTY CLAY brown, wet, rather soft. (Alluvium)			
				4		PP = 1.5 tsf, MC = 25.1%
784.9	4.0					
		SM	SILTY SAND seams of poorly graded sand, fine grained, brown, moist, loose. (Alluvium)			
				6		
782.9	6.0					
			End of boring. Boring sealed upon completion.			

18151.21.WIL

B-4 page 1 of 1

CVT STANDARD 18151.21.WIL (LAX CTH B).GPJ LOG A GNN06.GDT 5/14/21

18151.21.WIL

B-4 page 1 of 1

2

PROJECT NO: 5069-00-70

HWY: CTH B

COUNTY: LA CROSSE

SOIL BORINGS

SHEET

11

E

NOTE: SEE 5-SERIES PLAN SHEETS FOR APPROXIMATE LOCATIONS OF BORINGS. LOCATIONS ESTIMATED ONLY.

2

LOG OF BORING

CHOSEN VALLEY TESTING



PROJECT: 18151.21.WIL Design Phase Geotechnical Evaluation Proposed Road Improvements CTH B from IH 90 to CTH J La Crosse County, Wisconsin				BORING: B-5		
				LOCATION: See attached sketch		
				DATE: 5/6/2021	SCALE: 1" = 1'	
Elev. 819.5	Depth 0.0	USCS Symbol	Description of Materials (ASTM D 2487/2488)	BPF	WL	Tests and Notes
819.2	0.3		<u>3" ASPHALT</u>			
818.9	0.6		<u>4" AGGREGATE BASE</u>			
818.6	0.9		<u>4" ASPHALT</u>			
818.1	1.4	SP SM	<u>POORLY GRADED SAND with SILT</u> fine grained, orangish brown, moist. (Fill)			
		ML CL	<u>CLAYEY SILT</u> dark gray, wet, stiff. (Alluvium)			
				15		PP = 3.0 tsf
			Gray with rust mottling below 4'.			
				16		PP = 4.5 tsf, MC = 18.1%
813.5	6.0		End of boring. Boring sealed upon completion.			

18151.21.WIL

B-5 page 1 of 1

CVT STANDARD 18151.21.WIL (LAX CTH B) GPJ LOG A GINN06.GDT 5/14/21

18151.21.WIL

B-5 page 1 of 1

2

LOG OF BORING

CHOSEN VALLEY TESTING



PROJECT: 18151.21.WIL Design Phase Geotechnical Evaluation Proposed Road Improvements CTH B from IH 90 to CTH J La Crosse County, Wisconsin				BORING: B-6		
				LOCATION: See attached sketch		
				DATE: 5/6/2021	SCALE: 1" = 1'	
Elev.	Depth	USCS Symbol	Description of Materials (ASTM D 2487/2488)	BPF	WL	Tests and Notes
810.9	0.0					
810.7	0.2		<u>2.5" ASPHALT</u>			
			<u>6" AGGREGATE BASE</u>			
810.2	0.7					
			<u>4" ASPHALT</u>			
809.9	1.0					
		SM	<u>SILTY SAND</u> trace gravel, fine grained, brown, moist. (Fill)			
808.9	2.0					
		SP SM	<u>POORLY GRADED SAND with SILT</u> fine grained, orangish brown, moist, very dense. (Weathered Sandstone)			
				*		* 12 / 35 / 50 = 2"
806.1	4.8			*		* 50 = 3" (set)
			End of boring. Boring sealed upon completion.			

18151.21.WIL

B-6 page 1 of 1

CVT STANDARD 18151.21.WIL (LAX CTH B) GPJ LOG A GINN06.GDT 5/14/21

18151.21.WIL

B-6 page 1 of 1

PROJECT NO: 5069-00-70

HWY: CTH B

COUNTY: LA CROSSE

SOIL BORINGS

SHEET

12

E

CHOSEN VALLEY TESTING

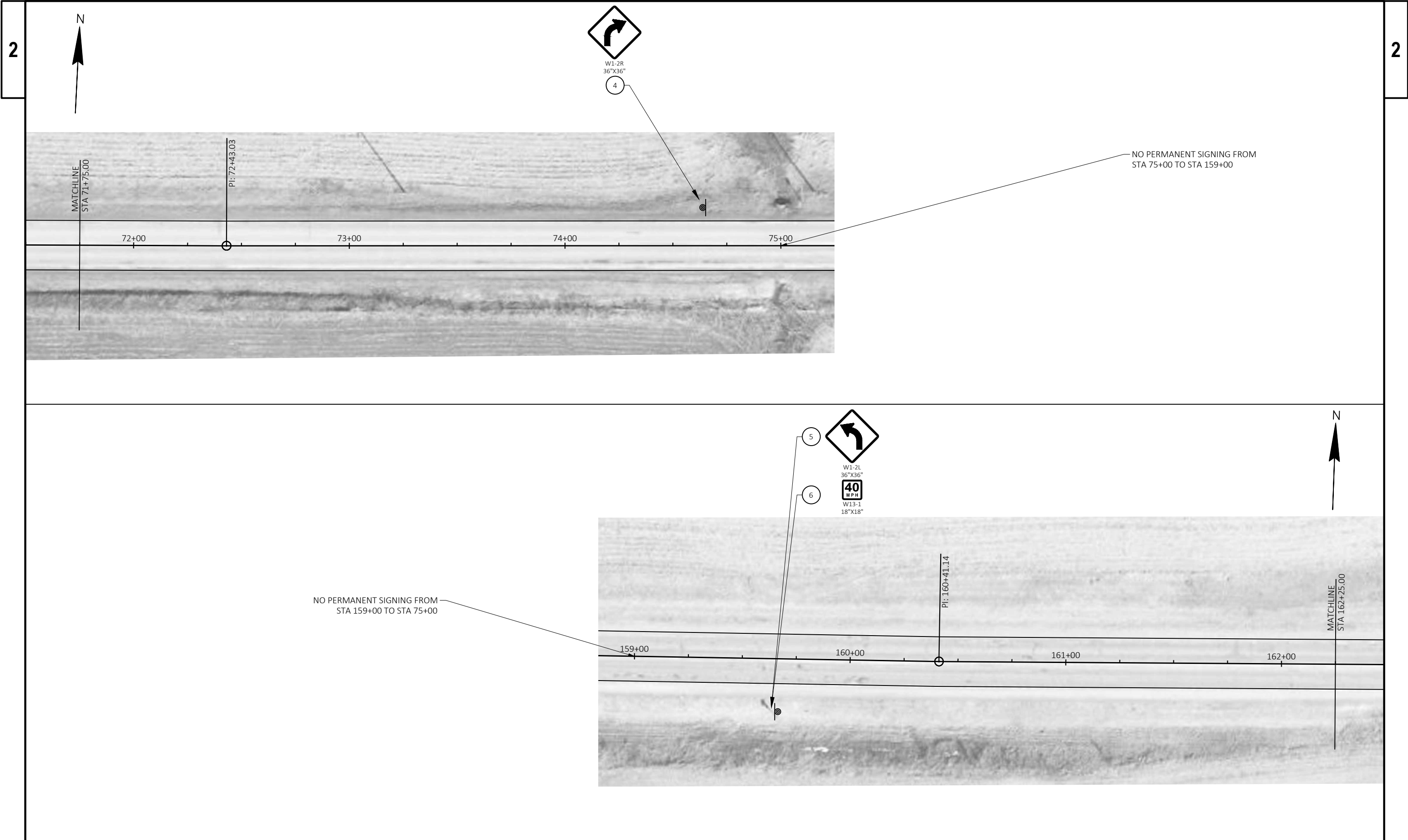
CVT

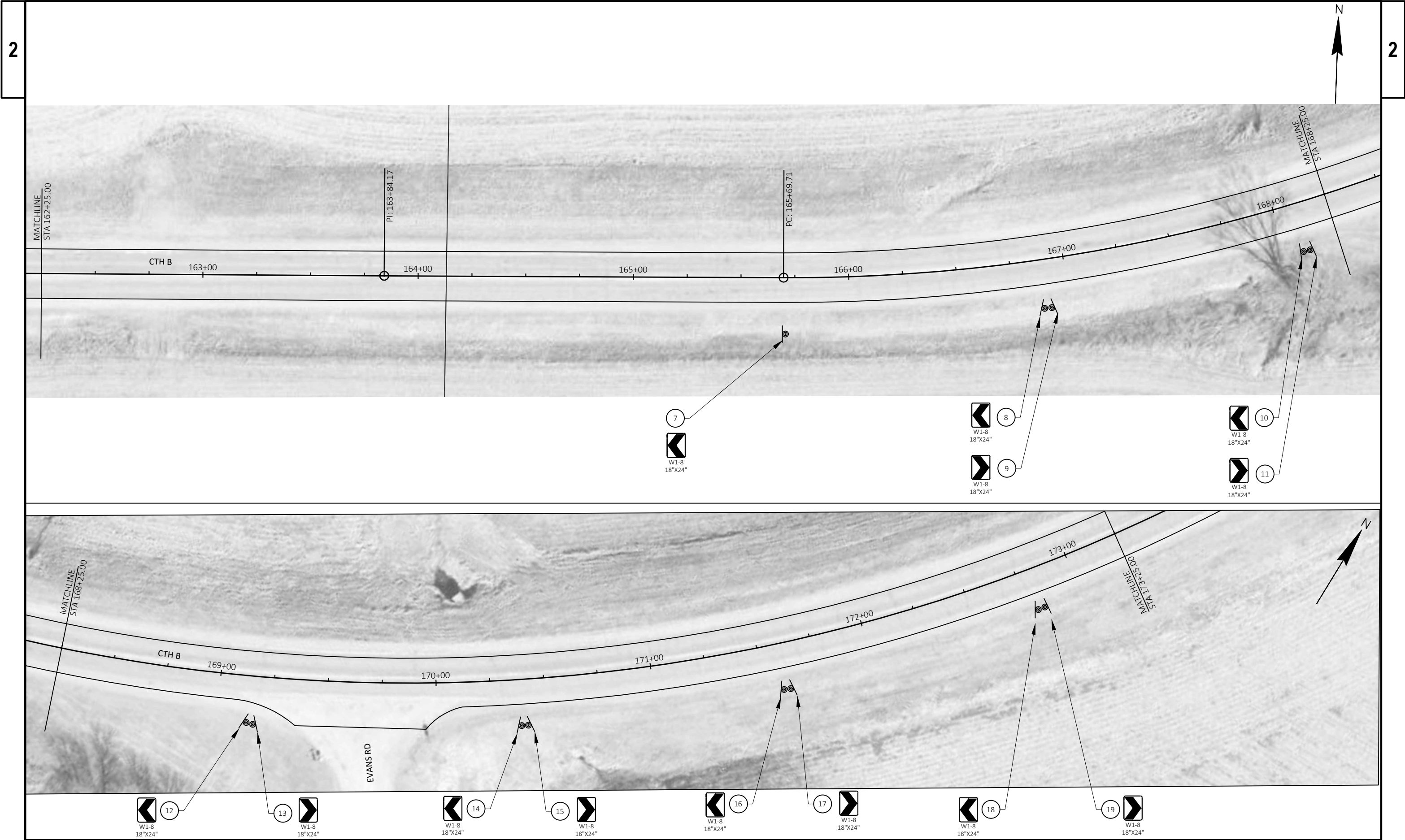
B-7 page 1 of 1

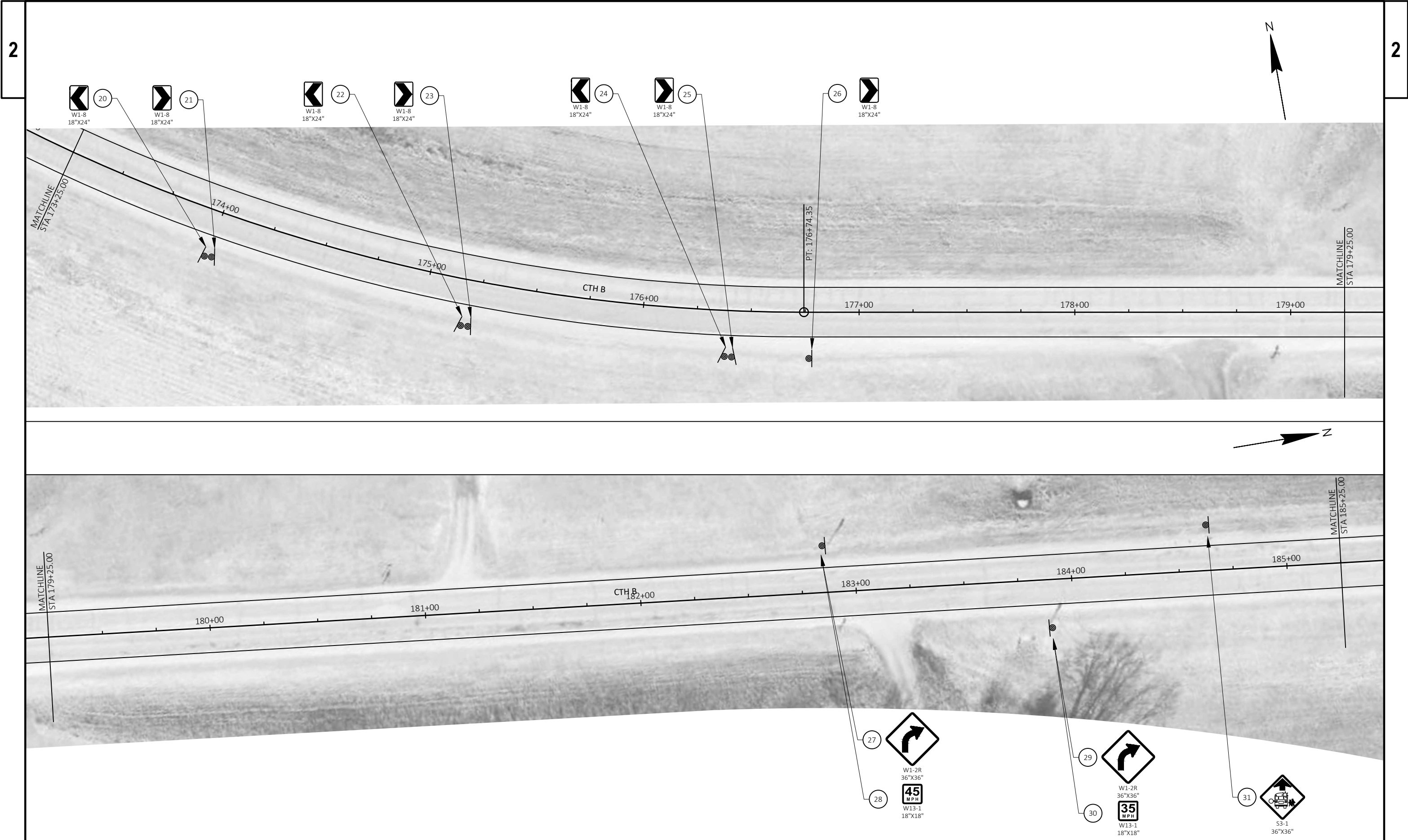
CVT

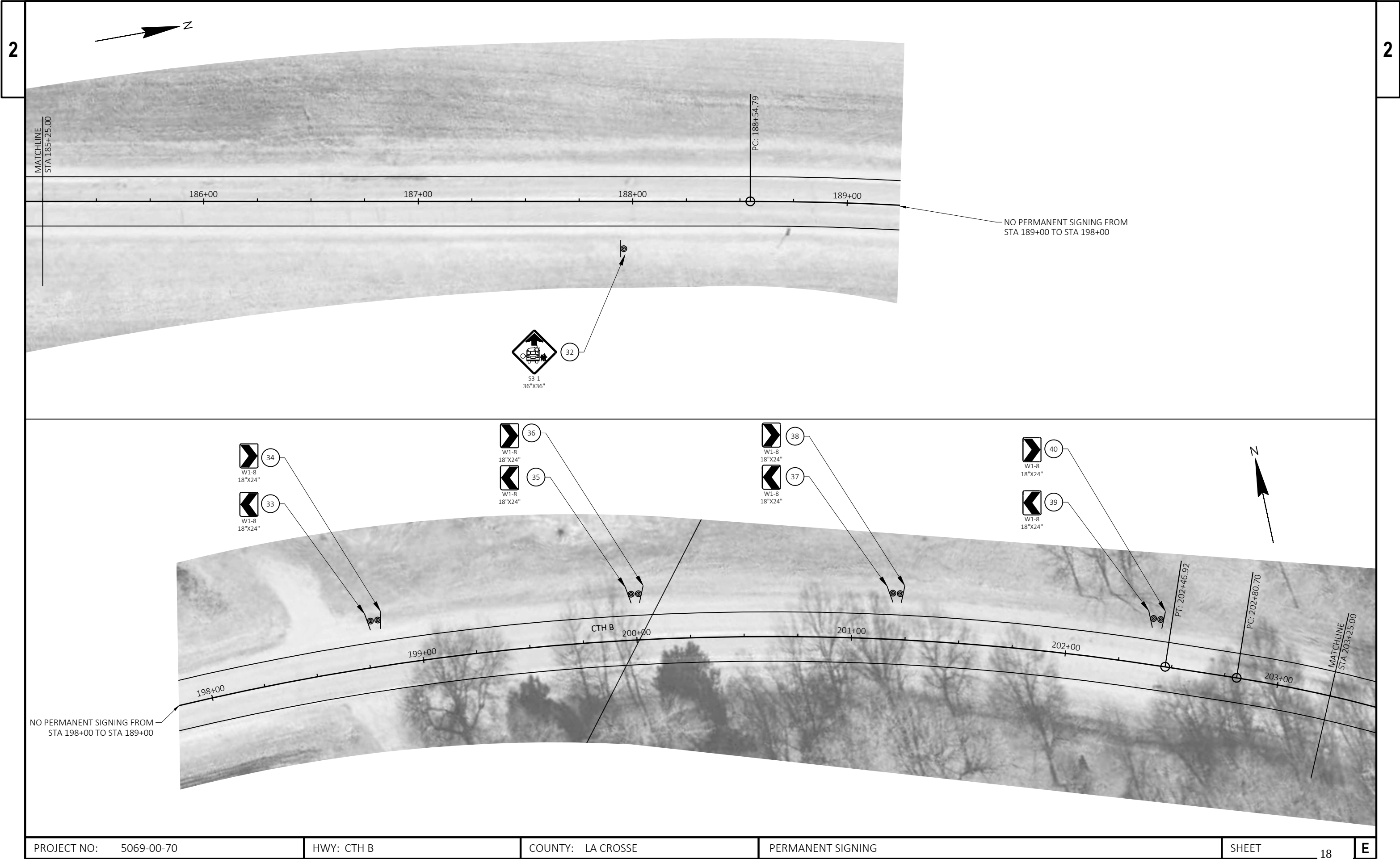
B-8 page 1 of 1

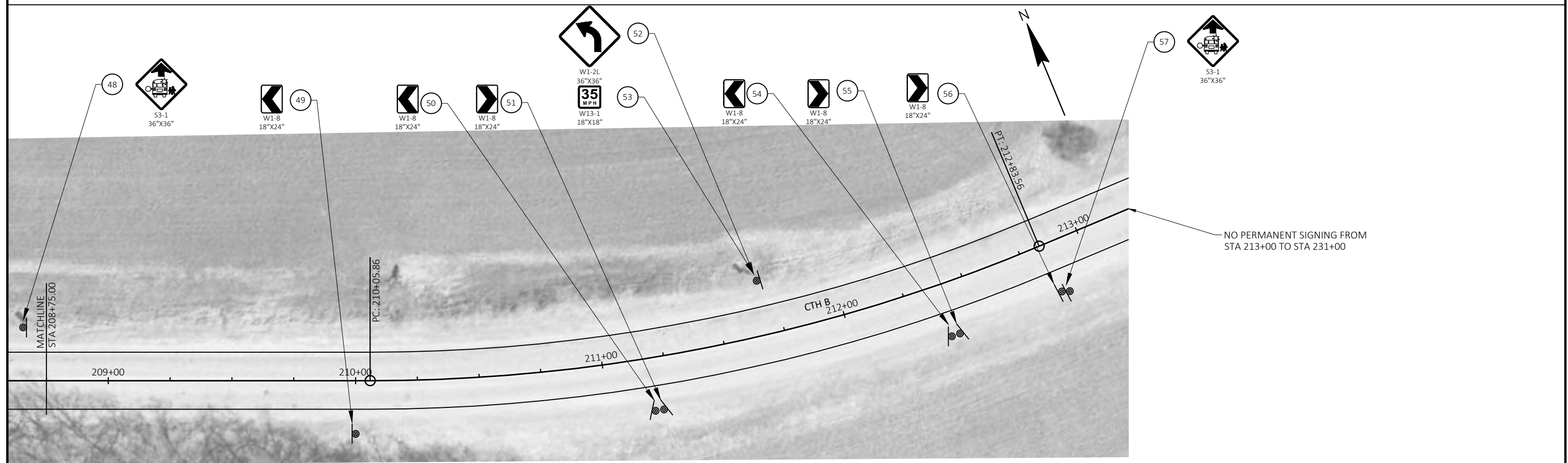
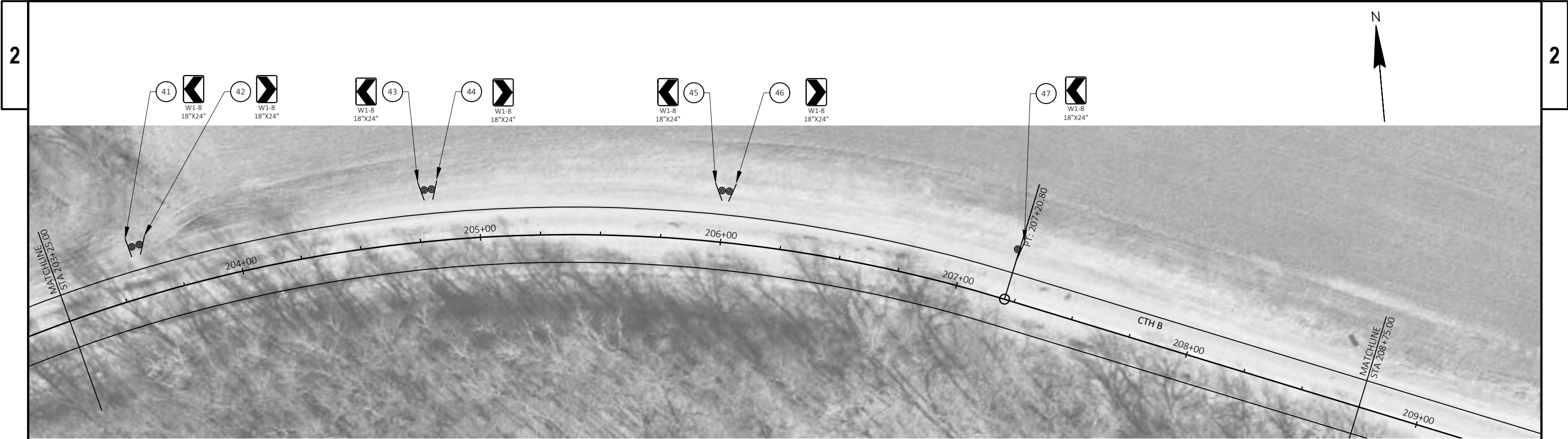


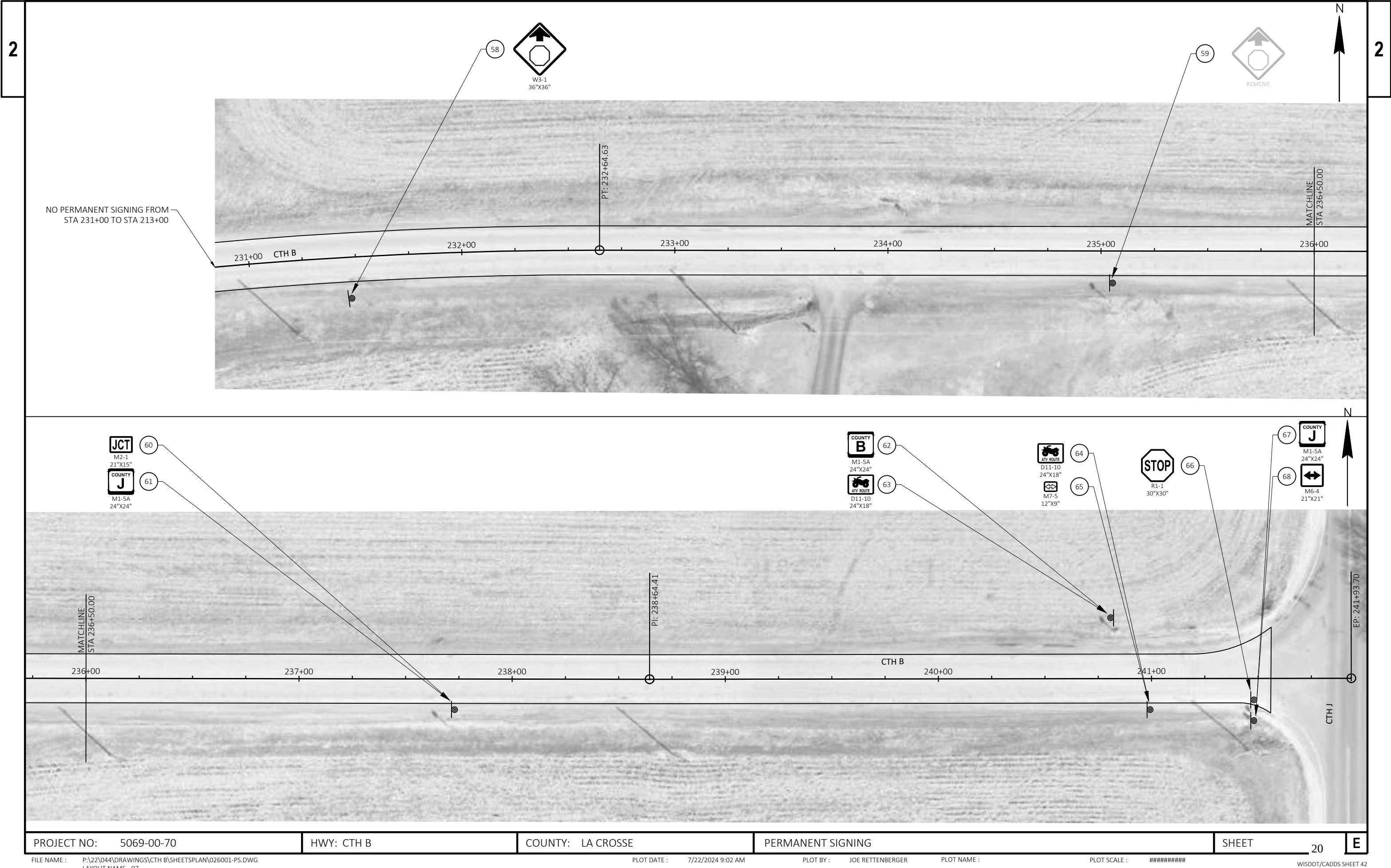












Estimate Of Quantities

5069-00-70					
Line	Item	Item Description	Unit	Total	Qty
0002	204.0115	Removing Asphaltic Surface Butt Joints	SY	120.000	120.000
0004	204.0120	Removing Asphaltic Surface Milling	SY	46,900.000	46,900.000
0006	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 5069-00-70	EACH	1.000	1.000
0008	213.0100	Finishing Roadway (project) 01. 5069-00-70	EACH	1.000	1.000
0010	305.0110	Base Aggregate Dense 3/4-Inch	TON	520.000	520.000
0012	305.0500	Shaping Shoulders	STA	361.000	361.000
0014	455.0605	Tack Coat	GAL	5,503.000	5,503.000
0016	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0018	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0020	460.2005	Incentive Density PWL HMA Pavement	DOL	10,692.000	10,692.000
0022	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	3,640.000	3,640.000
0024	460.2010	Incentive Air Voids HMA Pavement	DOL	10,780.000	10,780.000
0026	460.5224	HMA Pavement 4 LT 58-28 S	TON	10,780.000	10,780.000
0028	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	119.000	119.000
0030	618.0100	Maintenance and Repair of Haul Roads (project) 01. 5069-00-70	EACH	1.000	1.000
0032	619.1000	Mobilization	EACH	1.000	1.000
0034	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	42.000	42.000
0036	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	16.000	16.000
0038	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	3.000	3.000
0040	637.2230	Signs Type II Reflective F	SF	271.250	271.250
0042	638.2602	Removing Signs Type II	EACH	26.000	26.000
0044	638.3000	Removing Small Sign Supports	EACH	18.000	18.000
0046	642.5001	Field Office Type B	EACH	1.000	1.000
0048	643.0420	Traffic Control Barricades Type III	DAY	330.000	330.000
0050	643.0705	Traffic Control Warning Lights Type A	DAY	660.000	660.000
0052	643.0900	Traffic Control Signs	DAY	2,860.000	2,860.000
0054	643.0920	Traffic Control Covering Signs Type II	EACH	1.000	1.000
0056	643.5000	Traffic Control	EACH	1.000	1.000
0058	645.0220	Geogrid Type SR	SY	7,800.000	7,800.000
0060	646.2005	Marking Line Paint 6-Inch	LF	62,035.000	62,035.000
0062	648.0100	Locating No-Passing Zones	MI	3.450	3.450
0064	650.8000	Construction Staking Resurfacing Reference	LF	18,190.000	18,190.000
0066	650.9911	Construction Staking Supplemental Control (project) 01. 5069-00-70	EACH	1.000	1.000
0068	740.0440	Incentive IRI Ride	DOL	13,780.000	13,780.000
0070	SPV.0035	Special 01. Base Repair	CY	1,700.000	1,700.000

REMOVING ASPHALTIC SURFACE					
				204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS	204.0120 REMOVING ASPHALTIC SURFACE MILLING
STATION	STATION	SIDE	DESCRIPTION	SY	SY
59+66	241+56		MAINLINE	-	46473
59+66			START OF PROJECT	5	-
103+99		R	PRAIRIE RD	16	100
130+14		R	ROBERTS RD	11	71
143+66		L	ANTAL RD	16	98
144+54		L	CONCRETE DRIVE	10	14
169+67		R	EVANS RD	14	97
178+48		R	ASPHALT DRIVE	7	9
183+05		R	ASPHALT DRIVE	5	7
198+63		R	ASPHALT DRIVE	8	7
199+17		R	ASPHALT DRIVE	5	6
214+19		L	ASPHALT DRIVE	6	7
233+60		R	ASPHALT DRIVE	8	11
241+56			END OF PROJECT	9	-
PROJECT TOTAL				120	46900

PREPARATION AND FINISHING ITEMS					
PROJECT 5069-00-70					
211.0101					
			PREPARE FOUNDATION FOR ASPHALTIC PAVING (5069-00-70)	213.0100 FINISHING ROADWAY (5069-00-70)	
STA	-	STA	LOCATION	EACH	EACH
59+66	-	241+56	MAINLINE	1	1
PROJECT TOTAL				1	1

3

3

BASE AGGREGATE, GEOGRID TYPE SR, BASE REPAIR				
BASE REPAIR				
		305.0110	645.0220	
		BASE AGGREGATE	GEOGRID	SPV.0035
		DENSE 3/4-INCH	TYPE SR	BASE REPAIR
STATION - STATION	TON	SY	CY	REMARKS
UNDISTRIBUTED	520	-	-	FOR USE AT LOCATIONS ONLY WHERE NEEDED AS DIRECTED BY THE ENGINEER IF EXISTING SHOULDER MATERIAL TO BE RESTORED UNDER THE SHAPING SHOULDERS BID ITEM IS NOT ADEQUATE TO RE-ESTABLISH SHOULDER.
UNDISTRIBUTED	-	7800	1700	LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER AFTER MILLING. GEOGRID MAY NOT BE USED AT ALL LOCATIONS DEPENDING UPON CONDITIONS ENCOUNTERED.
PROJECT TOTAL	520	7800	1700	

ALL QUANTITIES ARE CATEGORY 10

SHAPING SHOULDERS				
		305.0500		
		SHAPING SHOULDERS	SHAPING SHOULDER	
STATION - STATION	STA	SIDE		
59+66 - 103+65	44	RT		
104+34 - 129+90	26	RT		
130+38 - 169+36	39	RT		
169+92 - 178+37	9	RT		
178+80 - 182+92	4	RT		
183+31 - 198+56	15	RT		
199+43 - 233+60	34	RT		
233+95 - 241+56	8	RT		
59+66 - 143+33	84	LT		
144+00 - 144+35	1	LT		
144+70 - 214+20	70	LT		
214+46 - 241+56	27	LT		
PROJECT TOTAL	361			

Description	Station	Mixture Use	Underlying Surface	Bid Item	Tons	Thickness	Quality Management Program to be used for:	
							Mixture Acceptance	Density Acceptance
11.5' Driving Lanes	59+66 to 241+56	Upper Layer	4 LT 58-28 S	4 LT 58-28 S	4678	1 3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
11.5' Driving Lanes	59+66 to 241+56	Lower Layer	Milled Existing HMA Surface; or Base Aggregate at Base Repair Locations	4 LT 58-28 S	6014	2 1/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
Driveways and Field Entrances	Various	Driveway and Field Entrance Bump Outs	Existing Aggregate	Asphaltic Surface Driveway and Field Entrances	119	4" total	(SS 465)	Ordinary Compaction (SS 450.3.2.6.2)
Side Roads	Various	Upper Layer	4 LT 58-28 S	4 LT 58-28S	38	1 3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Department Acceptance (SS 460.3.3.2) *Not eligible for incentive
Side Roads	Various	Lower Layer	Milled Existing HMA Surface; or Base Aggregate at Base Repair Locations	4 LT 58-28S	50	2 1/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Department Acceptance (SS 460.3.3.2) *Not eligible for incentive

TACK COAT		
455.0605		
TACK COAT		
STATION to STATION	GALLON	REMARKS
STA 59+66 to 241+66	3122	MAINLINE ON MILLED SURFACE (ASSUMED 22' WIDTH)
STA 59+66 to 241+66	2331	MAINLINE BETWEEN HMA LAYERS
STA 103+64 to 104+34	12	PRAIRIE RD, ON MILLED SURFACE AND BETWEEN HMA LAYERS
STA 129+90 to 130+38	9	ROBERTS RD, ON MILLED SURFACE AND BETWEEN HMA LAYERS
STA 143+30 to 144+03	12	ANTAL RD, ON MILLED SURFACE AND BETWEEN HMA LAYERS
STA 169+36 to 169+95	11	EVANS RD, ON MILLED SURFACE AND BETWEEN HMA LAYERS
ASPHALT DRIVEWAYS	6	FOR USE AT ASPHALT DRIVES ON MILLED SURFACE AND BETWEEN HMA LAYERS
PROJECT TOTAL	5503	

NEW HMA PAVEMENT							
		460.5224	465.0120	460.0105.S	460.0110.S		
		HMA PAVEMENT	ASPHALTIC SURFACE	HMA PERCENT WITHIN	HMA PERCENT WITHIN		
		4 LT 58-28 S	DRIVEWAYS AND FIELD	LIMITS (PWL) TEST	LIMITS (PWL) TEST		
			ENTRANCES	STRIP VOLUMETRICS	STRIP DENSITY		
STATION	-	STATION	TON	TON	EACH	EACH	REMARKS
59+66	-	241+56	10692	-	-	-	MAINLINE
64+66			-	4	-	-	EXISTING P.E. RT
66+76			-	5	-	-	EXISTING P.E. RT
69+52			-	4	-	-	EXISTING P.E. RT
76+27			-	2	-	-	FIELD ENTRANCE RT
77+20			-	2	-	-	FIELD ENTRANCE LT
81+82			-	3	-	-	EXISTING P.E. RT
82+15			-	2	-	-	FIELD ENTRANCE LT
85+40			-	2	-	-	FIELD ENTRANCE RT
90+86			-	2	-	-	FIELD ENTRANCE LT
101+42			-	2	-	-	FIELD ENTRANCE LT
101+52			-	2	-	-	FIELD ENTRANCE RT
102+93			-	3	-	-	EXISTING P.E LT
104+00			23	-	-	-	PRAIRIE RD RT
107+30			-	2	-	-	FIELD ENTRANCE LT
117+35			-	3	-	-	FIELD ENTRANCE RT
117+62			-	2	-	-	EXISTING P.E LT
118+86			-	2	-	-	EXISTING P.E LT
120+21			-	4	-	-	EXISTING P.E. LT
120+80			-	4	-	-	EXISTING P.E. LT
130+15			18	-	-	-	ROBERTS RD RT
131+80			-	2	-	-	FIELD ENTRANCE LT
143+70			23	-	-	-	ANTAL RD LT
144+54			-	4	-	-	EXISTING P.E. LT PCC DRIVE W/ HMA APRONS
155+88			-	2	-	-	FIELD ENTRANCE RT
162+80			-	3	-	-	FIELD ENTRANCE LT
162+80			-	2	-	-	FIELD ENTRANCE RT
169+69			24	-	-	-	EVANS RD RT
178+62			-	3	-	-	EXISTING ASPHALT DRIVE RT
178+95			-	2	-	-	FIELD ENTRANCE LT
181+20			-	2	-	-	EXISTING P.E. LT
183+17			-	3	-	-	EXISTING ASPHALT DRIVE RT
189+30			-	3	-	-	EXISTING P.E. RT
194+18			-	2	-	-	FIELD ENTRANCE LT
198+50			-	3	-	-	FIELD ENTRANCE LT
198+74			-	4	-	-	EXISTING ASPHALT DRIVE RT
199+42			-	3	-	-	EXISTING ASPHALT DRIVE RT
214+30			-	3	-	-	EXISTING ASPHALT DRIVE LT
215+02			-	4	-	-	EXISTING P.E. RT
218+95			-	2	-	-	EXISTING FIELD ENTRANCE LT
220+50			-	7	-	-	EXISTING P.E. RT
224+06			-	3	-	-	EXISTING FIELD ENTRANCE LT
225+08			-	3	-	-	EXISTING FIELD ENTRANCE RT
227+40			-	3	-	-	EXISTING FIELD ENTRANCE RT
230+57			-	3	-	-	EXISTING FIELD ENTRANCE LT
233+76			-	3	-	-	EXISTING ASPHALT DRIVE RT
59+66	-	241+56	-	-	1	2	MAINLINE
PROJECT TOTAL			10780	119	1	2	

PERMANENT SIGNING														ALL QUANTITIES ARE CATEGORY 10	
SIGN NO.	STATION	SIDE	SIGN CODE	FACE DIR.	SIGN DIMENSIONS		634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS		
					W X H IN X IN	AREA SF									
1	65+28	LT	R2-1	SE	24X30	5	-	1	-	5	1	1	25 MPH		
2	65+28	RT	R2-1	NW	24X30	5	-	1	-	5	1	1	55 MPH		
3	70+77	LT	W3-5	E	36X36	9	-	1	-	9	1	1	25 MPH AHEAD		
4	74+80	LT	W1-2R	E	36X36	9	-	1	-	9	1	1	RIGHT CURVE AHEAD		
5	159+65	RT	W1-2L	W	36X36	9	-	-	1	9	1	1	LEFT CURVE AHEAD, SAME POST AS BELOW		
6	159+65	RT	W13-1	W	18X18	2.25	-	-	-	2.25	1	-	ADVISORY 40 MPH, SAME POST AS ABOVE		
7	165+70	RT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
8	166+90	RT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
9	166+91	RT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
10	168+10	RT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
11	168+11	RT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
12	169+20	RT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
13	169+21	RT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
14	170+40	RT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
15	170+41	RT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
16	171+60	RT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
17	171+61	RT	W1-8	E	18X24	3	1	-	-	3	-	-	CHEVRONS		
18	172+80	RT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
19	172+81	RT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
20	174+00	RT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
21	174+01	RT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
22	175+20	RT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
23	175+21	RT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
24	176+40	RT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
25	176+41	RT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
26	176+75	RT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
27	182+81	LT	W1-2R	N	36X36	9	-	-	1	9	1	1	RIGHT CURVE AHEAD, SAME POST AS BELOW		
28	182+81	LT	W13-1	N	18X18	2.25	-	-	-	2.25	1	-	ADVISORY 45 MPH, SAME POST AS ABOVE		
29	183+82	RT	W1-2R	S	36X36	9	-	1	-	9	1	1	RIGHT CURVE AHEAD, SAME POST AS BELOW		
30	183+82	RT	W13-1	S	18X18	2.25	-	-	-	2.25	1	-	ADVSORY 35 MPH, SAME POST AS ABOVE		
31	184+67	LT	S3-1	N	36X36	9	-	1	-	9	1	1	BUS STOPS AHEAD		
32	187+95	RT	S3-1	S	36X36	9	-	1	-	9	1	1	BUS STOPS AHEAD		
33	198+80	LT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
34	198+81	LT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
35	200+00	LT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
36	200+01	LT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
37	201+20	LT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
38	201+21	LT	W1-8	E	18X24	3	1	-	-	3	-	-	CHEVRONS		
39	202+40	LT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
40	202+41	LT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
41	203+60	LT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
42	203+61	LT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
43	204+80	LT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
44	204+81	LT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
45	206+00	LT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
46	206+01	LT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
47	207+20	RT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
48	208+72	LT	S3-1	E	36X36	9	-	1	-	9	1	1	BUS STOPS AHEAD		
49	210+00	RT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
50	211+20	RT	W1-8	W	18X24	3	1	-	-	3	-	-	CHEVRONS		
51	211+21	RT	W1-8	E	18X24	3	1	-	-	3	-	-	-		
52	211+71	LT	W1-2L	E	36X36	9	-	-	1	9	1	1	LEFT CURVE AHEAD, SAME POST AS BELOW		
53	211+71	LT	W13-1	E	18X18	2.25	-	1	-	2.25	1	-	ADVISORY 35 MPH, SAME POST AS ABOVE		
54	212+40	RT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
55	212+41	RT	W1-8	E	18X24	3	1	-	-	3	-	-	CHEVRONS		
56	212+85	RT	W1-8	W	18X24	3	1	-	-	3	-	-	-		
57	212+84	RT	S3-1	W	36X36	9	-	1	-	9	1	1	BUS STOPS AHEAD		
58	231+47	RT	W3-1	W	36X36	9	-	1	-	9	-	-	STOP AHEAD, INSTALL		
59	235+05	RT	W3-1	W	36X36	9	-	-	-	-	1	1	STOP AHEAD, REMOVE		
60	237+72	RT	M2-1	W	21X15	2.1875	-	1	-	2.19	1	1	JUNCTION, SAME POST AS BELOW		
61	237+72	RT	M1-5A	W	24X24	4	-	-	-	4	1	-	COUNTY J, SAME POST AS ABOVE		
62	240+80	LT	M1-5A	E	24X24	4	-	1	-	4	1	1	COUNTY B, SAME POST AS BELOW		
63	240+80	LT	D11-10	E	24X18	3	-	1	-	3	1	-	ATV ROUTE, SAME POST AS ABOVE		
64	240+95	RT	D11-10	W	24X18	3	1	-	-	3	1	1	AVT ROUTE, SAME POST AS BELOW		
65	240+95	RT	M7-5	W	12X9	0.75	-	-	-	0.75	1	-	WHITE ON GREEN LEFT AND RIGHT ARROW, SAME POST AS ABOVE		
66	241+47	RT	R1-1	W	30X30	6.25	-	1	-	6.25	1	1	STOP		
67	241+47	RT	M1-5A	W	24X24	4	-	1	-	4	1	1	COUNTY J, SAME POST AS BELOW		
68	241+47	RT	M6-4	W	21X21	3.0625	-	-	-	3.06	1	-	BLACK ON WHITE LEFT AND RIGHT ARROW, SAME POST AS ABOVE		
PROJECT 5096-00-70 TOTAL							42	16	3	271.25	26	18			

PROJECT NO:	5069-00-70	HWY: CTH B	COUNTY: LA CROSSE	MISCELLANEOUS QUANTITIES	SHEET	26	E
-------------	------------	------------	-------------------	--------------------------	-------	----	---

3

TRAFFIC CONTROL - BARRICADES		
	643.0420	643.0705
	BARRICADES	WARNING
	TYPE III	LIGHTS
	DAYS	TYPE A
	DAYS	DAYS
DETOUR SIGNING DETAIL A	220	440
DETOUR SIGNING DETAIL E	110	220
PROJECT TOTAL	330	660

3

TRAFFIC CONTROL - COVERING SIGNS		
PROJECT		
	643.0920	
	COVERING SIGNS	
	TYPE II	
DETAIL	LOCATION	EACH
A	COMMERCIAL STREET/CTH B IN BANGOR	1
PROJECT TOTAL		1

PAVEMENT MARKINGS				
PROJECT 5069-00-70				
646.2005				
MARKING LINE				
PAINT 6-INCH				
STATION -	STATION	LOCATION	LF	REMARKS
59+66 -	241+56	RT	18190	EDGE LINE, WHITE
59+66 -	241+56	LT	18190	EDGE LINE WHITE
56+99 -	241+56	CENTER	25655	CENTERLINE*
PROJECT TOTAL			62035	*Estimated. Final quantity based on location of No Passing zones.

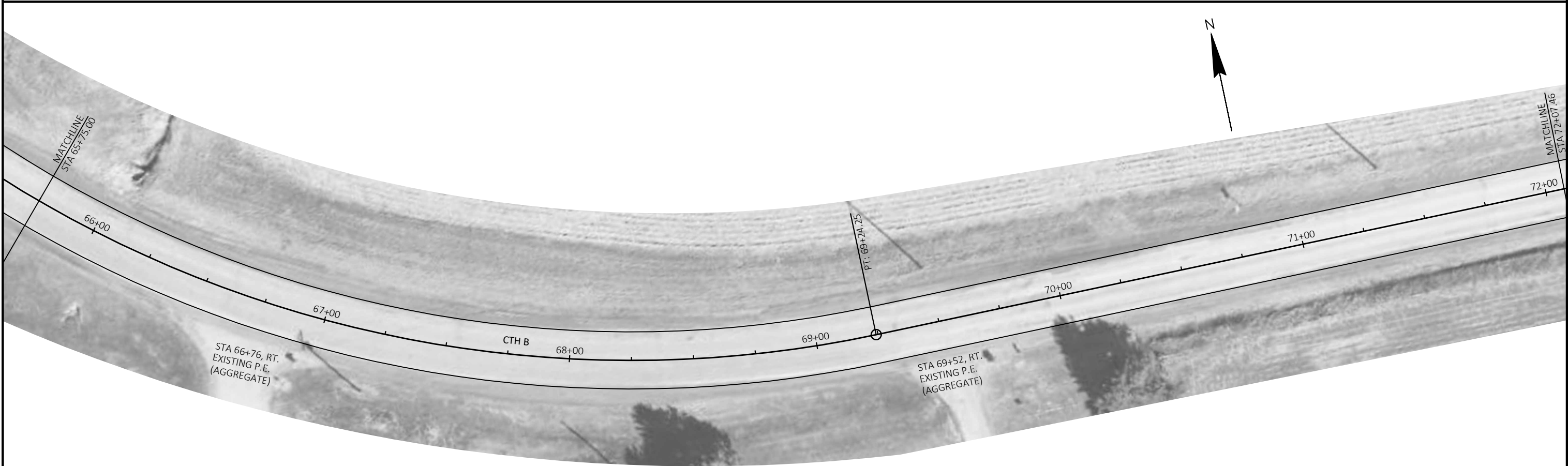
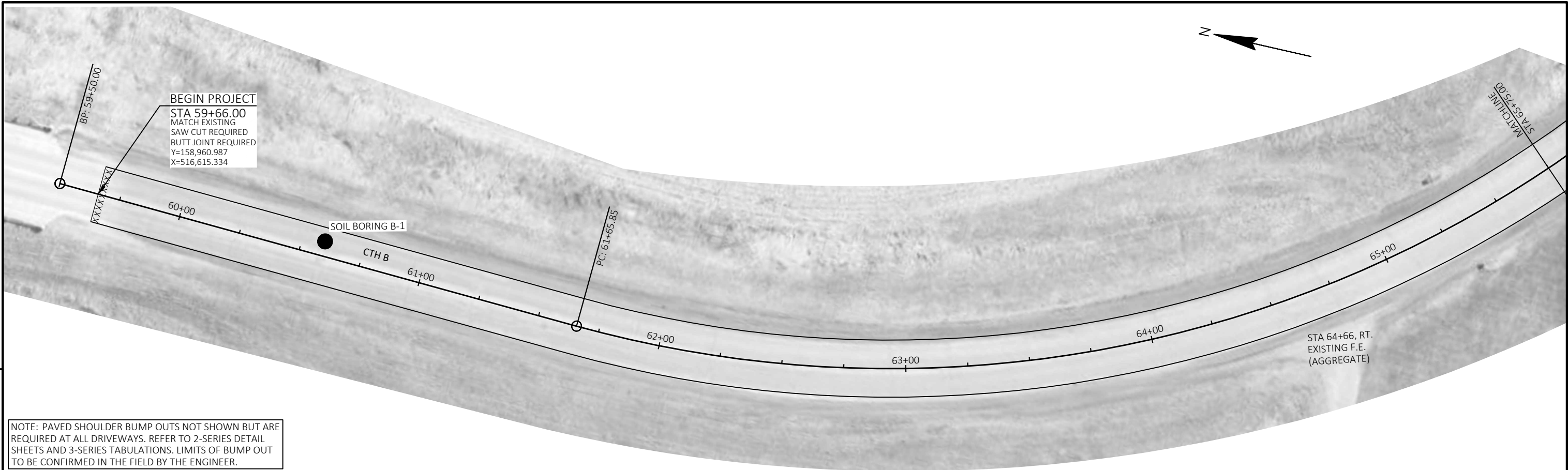
TRAFFIC CONTROL -DETOUR SIGNS							
		643.0900					
		TRAFFIC					
		CONTROL SIGNS					
DETAIL	LOCATION	DURATION DAYS	SIGN CODE	SIZE W X H	MESSAGE	NO.	REMARKS
A	COMMERCIAL STREET/CTH B IN BANGOR	55	W20-2A	36 X 36	DETOUR AHEAD	1	
A	COMMERCIAL STREET/CTH B IN BANGOR	55	M1-5A	24 X 24	CTH B	3	
A	COMMERCIAL STREET/CTH B IN BANGOR	55	M6-1A	21 X 21	AHEAD ARROW	2	
A	COMMERCIAL STREET/CTH B IN BANGOR	55	M4-8	24 X 12	DETOUR	2	
A	COMMERCIAL STREET/CTH B IN BANGOR	55	M4-8A	24 X 18	END DETOUR	1	
A	CTH U	55	M4-8	24 X 12	DETOUR	1	
A	CTH U	55	M1-5A	24 X 24	CTH B	1	
A	10TH AVENUE/CTH B IN BANGOR	55	R11-4	60 X 30	ROAD CLOSED TO THRU TRAFFIC	2	SIGNS ON TYPE III BARRICADES
A	10TH AVENUE/CTH B IN BANGOR	55	M4-9L	30 X 24	DETOUR, LEFT ARROW	1	SIGN ON TYPE III BARRICADE
A	10TH AVENUE/CTH B IN BANGOR	55	W20-3C	36 X 36	ROAD CLOSED 1000 FT	1	
A	10TH AVENUE/CTH B IN BANGOR	55	W20-3D	36 X 36	ROAD CLOSED 500 FT	1	
B	CTH U	55	M4-8	24 X 12	DETOUR	2	
B	CTH U	55	M1-5A	24 X 24	CTH B	2	
C	CTH U	55	M4-8	24 X 12	DETOUR	2	
C	CTH U	55	M1-5A	24 X 24	CTH B	2	
D	CTH U	55	M4-8	24 X 12	DETOUR	3	
D	CTH U	55	M1-5A	24 X 24	CTH B	3	
D	CTH U	55	M5-1R	21 X 21	ADVANCE RIGHT ARROW	1	
D	CTH U	55	M6-1	21 X 21	RIGHT ARROW	1	
D	COMMERCIAL STREET/CTH J IN ROCKLAND	55	M4-8	24 X 12	DETOUR	3	
D	COMMERCIAL STREET/CTH J IN ROCKLAND	55	M1-5A	24 X 24	CTH B	3	
D	COMMERCIAL STREET/CTH J IN ROCKLAND	55	M5-1L	21 X 21	ADVANCE LEFT ARROW	1	
D	COMMERCIAL STREET/ CTH J IN ROCKLAND	55	M6-1	21 X 21	LEFT ARROW	1	
E	CTH J	55	M4-8	24 X 12	DETOUR	2	
E	CTH J	55	M1-5A	24 X 24	CTH B	4	
E	CTH J	55	M4-8A	24 X 18	END DETOUR	1	
E	CTH J	55	M6-1	21 X 21	AHEAD ARROW	2	
E	CTH J	55	W20-2A	36 X 36	DETOUR AHEAD	1	
E	CTH B	55	R11-4	60 X 30	ROAD CLOSED TO THRU TRAFFIC	1	SIGN ON TYPE III BARRICADE
E	CTH B	55	M4-9R	30 X 24	DETOUR, RIGHT ARROW	1	SIGN ON TYPE III BARRICADE
PROJECT TOTAL						2860	

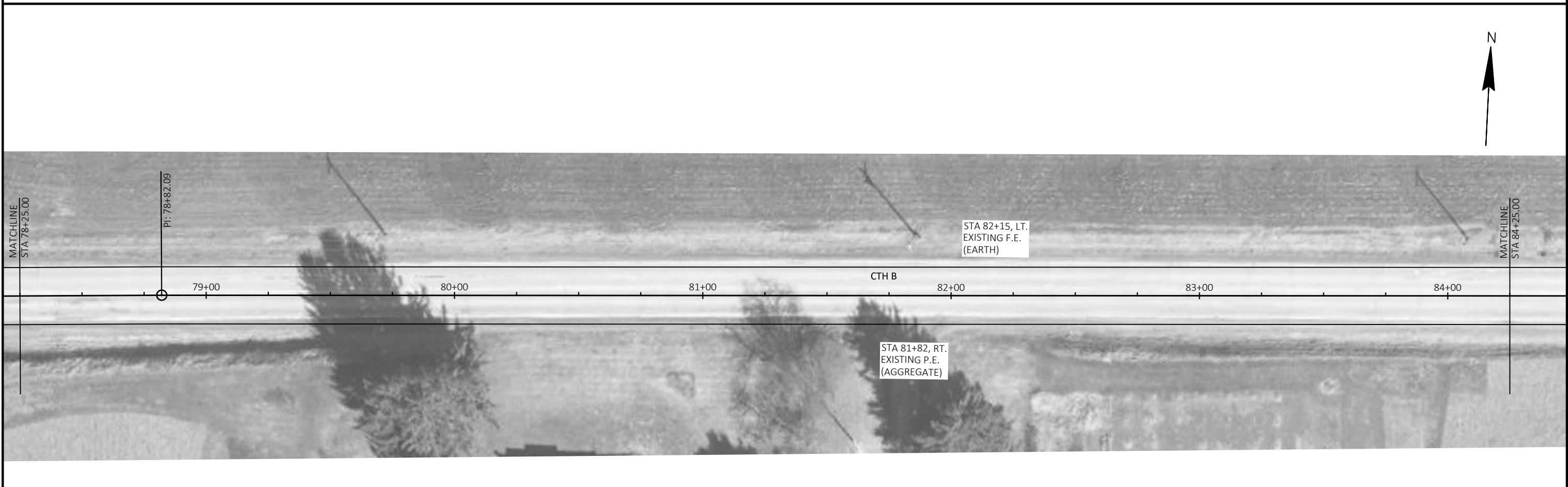
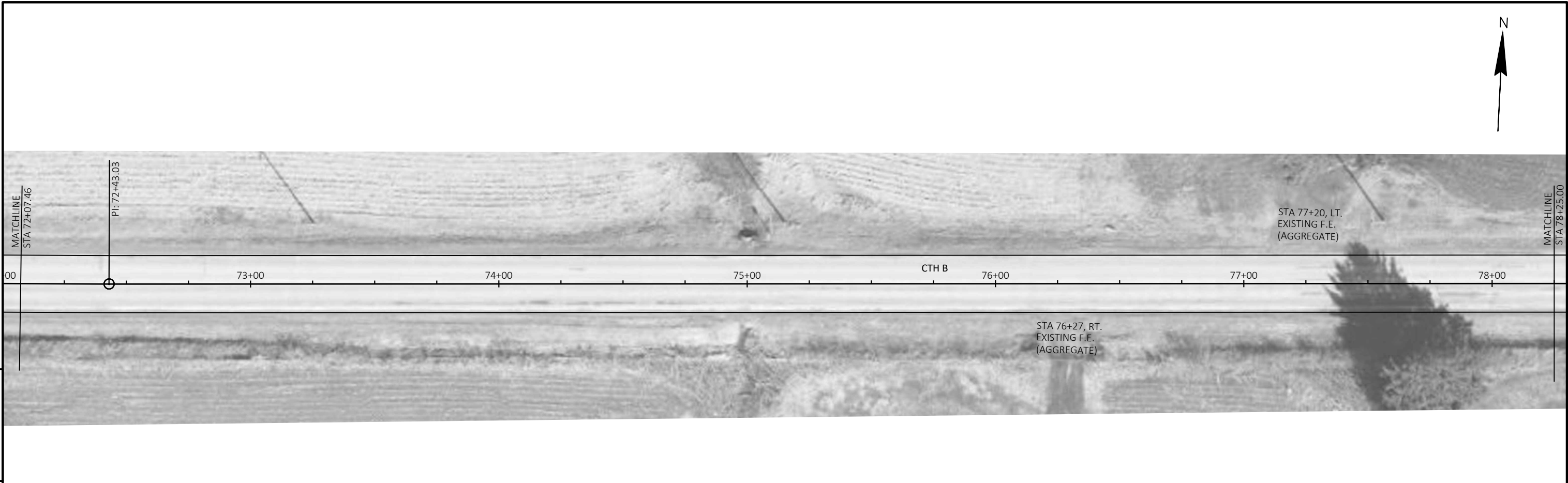
3

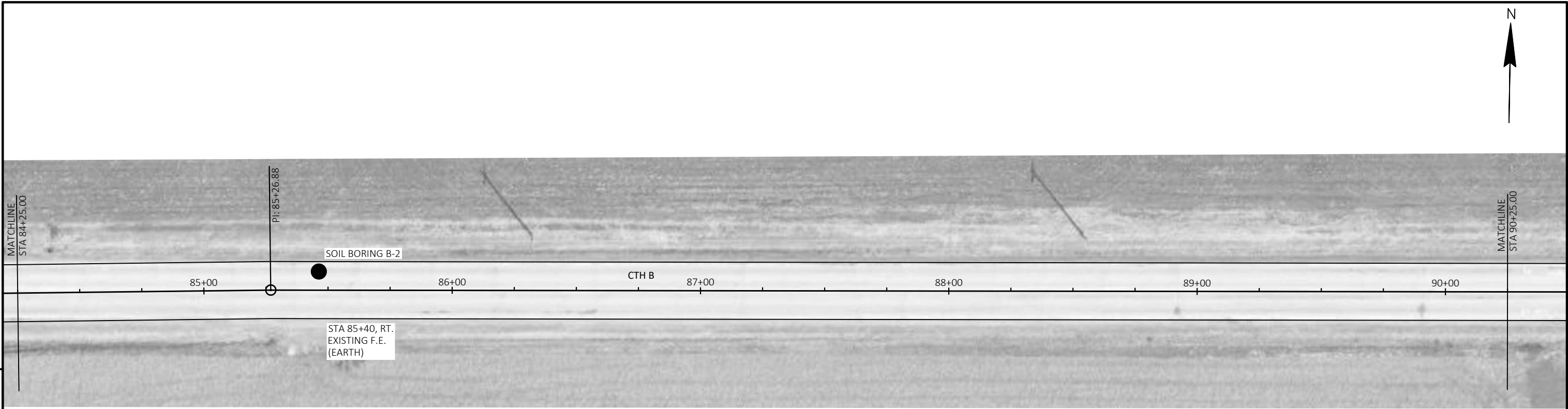
LOCATING NO-PASSING ZONE					
PROJECT 5069-00-70					
					648.0100 LOCATING NO-PASSING ZONES
STA	-	STA	LOCATION	FEET	MILES
59+66	-	241+56	MAINLINE	18190	3.45
PROJECT TOTAL					3.45

3

CONSTRUCTION STAKING						
			650.8000 RESURFACING REFERENCE		650.9911 SUPPLEMENTAL CONTROL (5069-00-70)	
STATION	TO	STATION	LOCATION	LF	EACH	NOTES
59+66		241+56	RT<	18,190		
59+66		241+56	RT<		1	
PROJECT TOTALS				18,190	1	

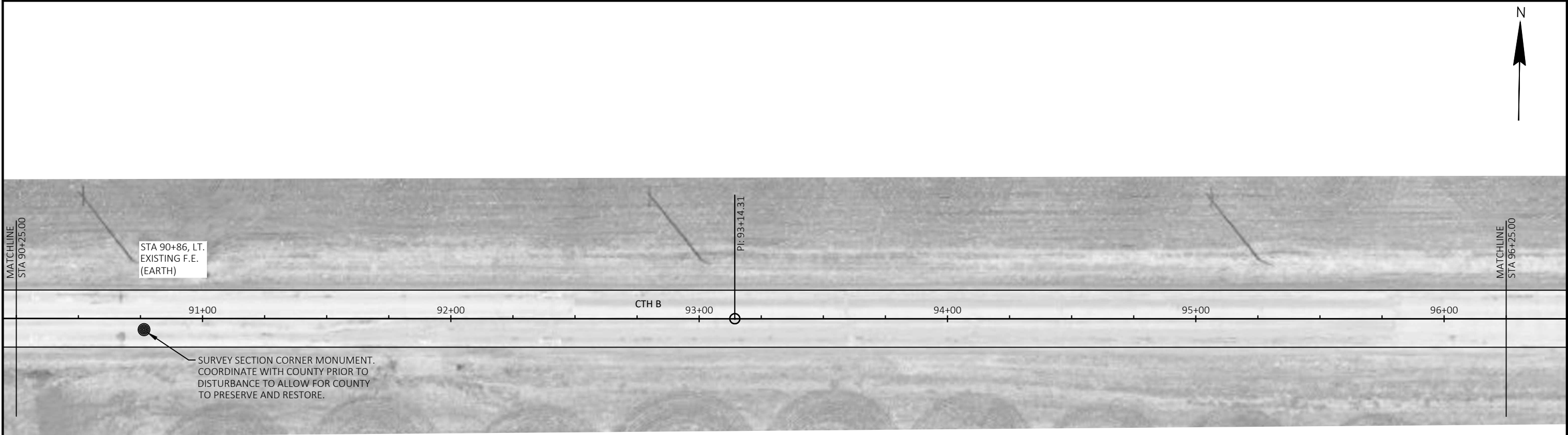


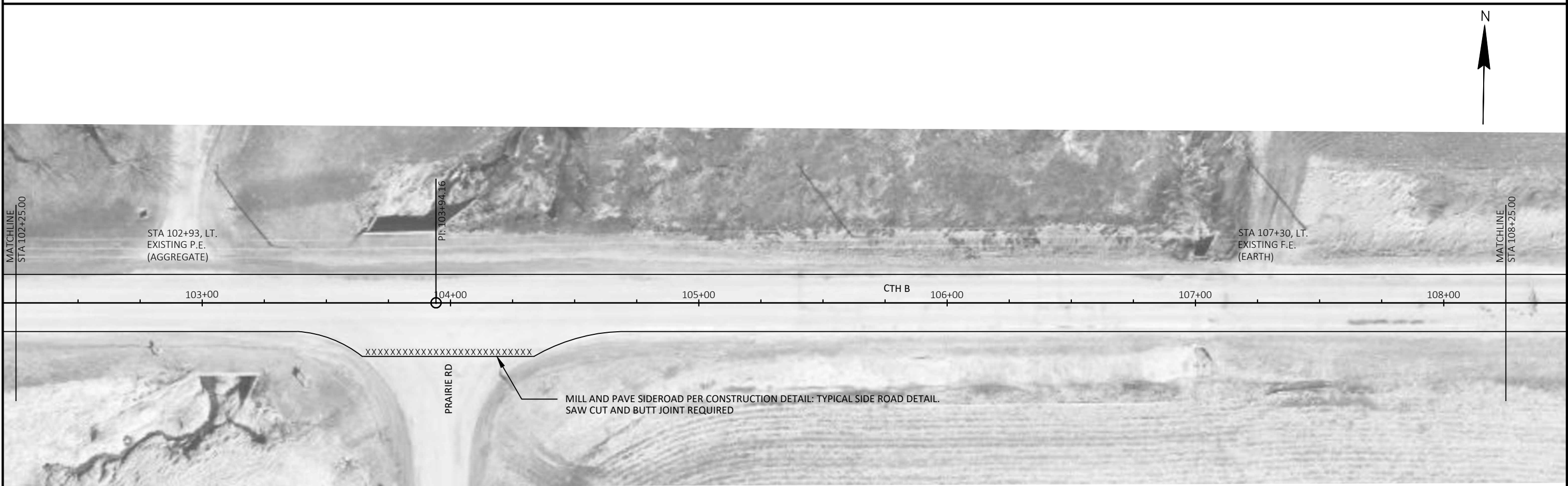
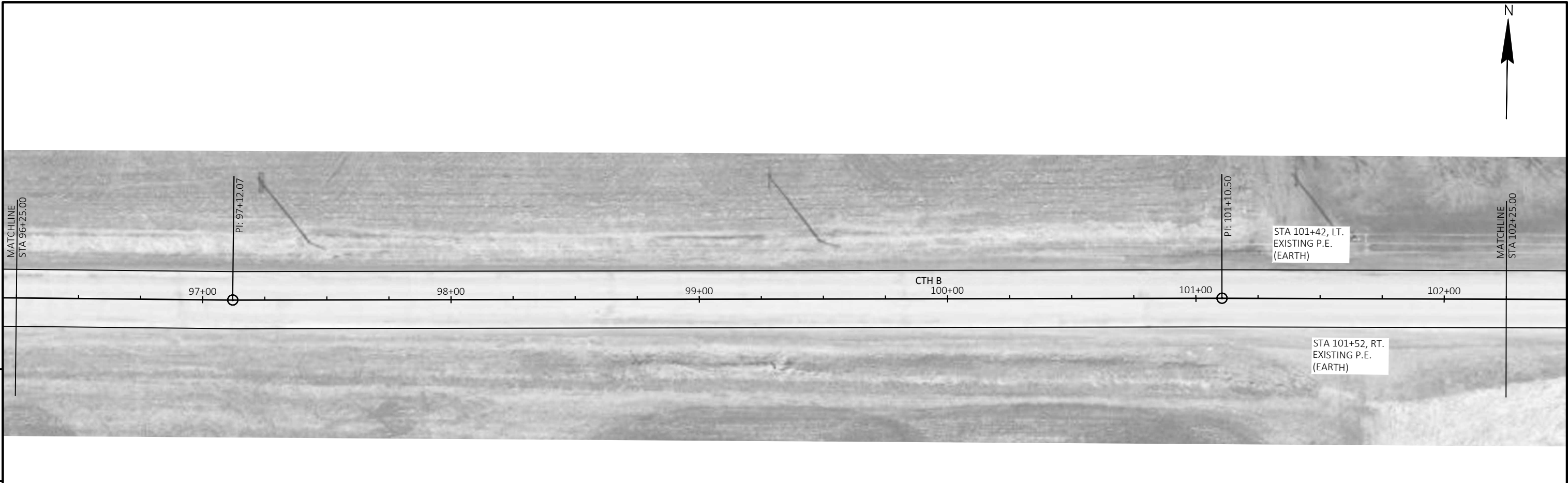


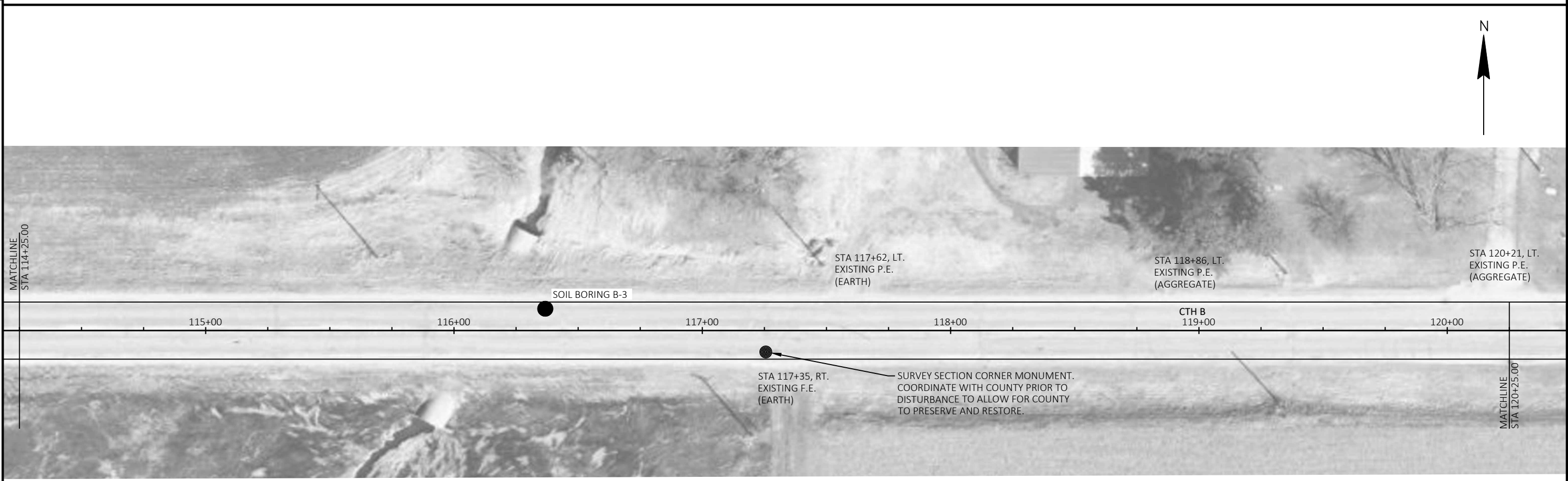
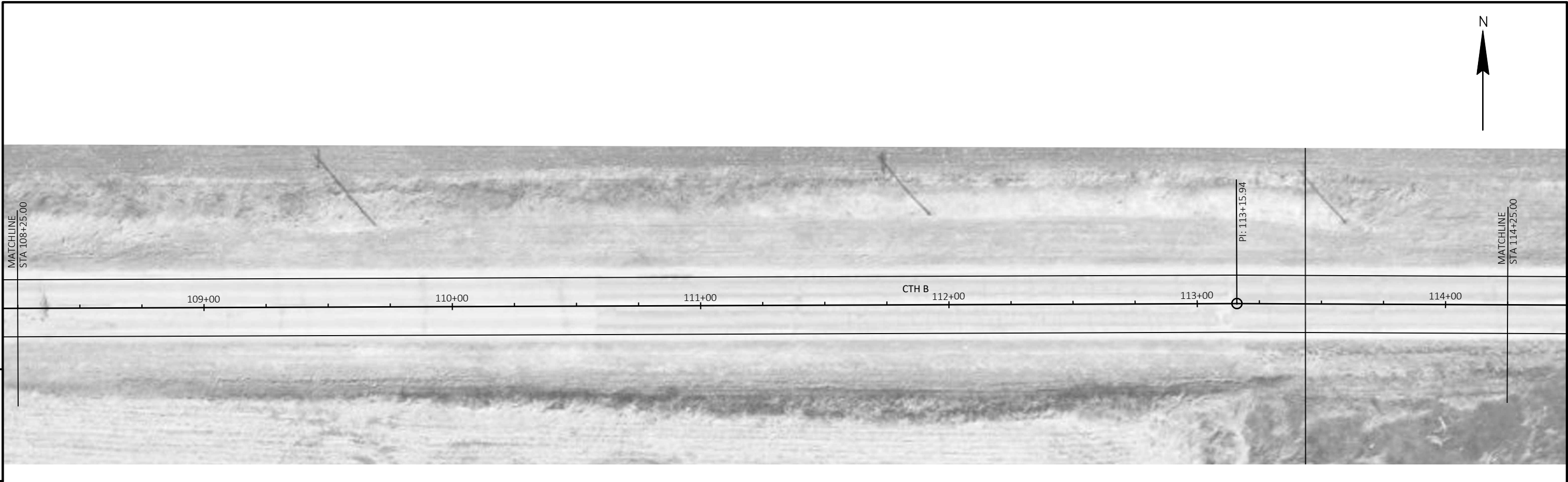


5

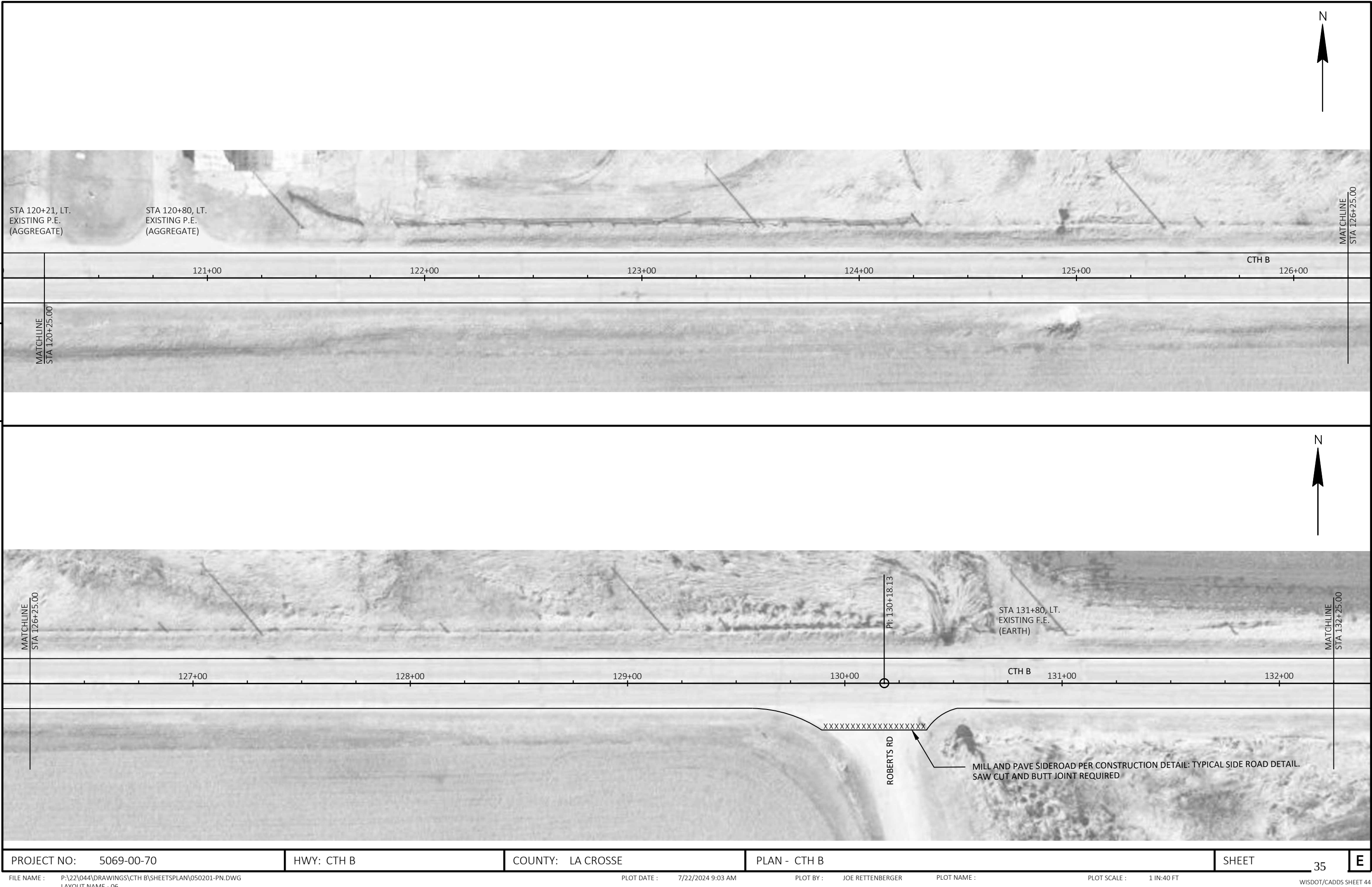
5

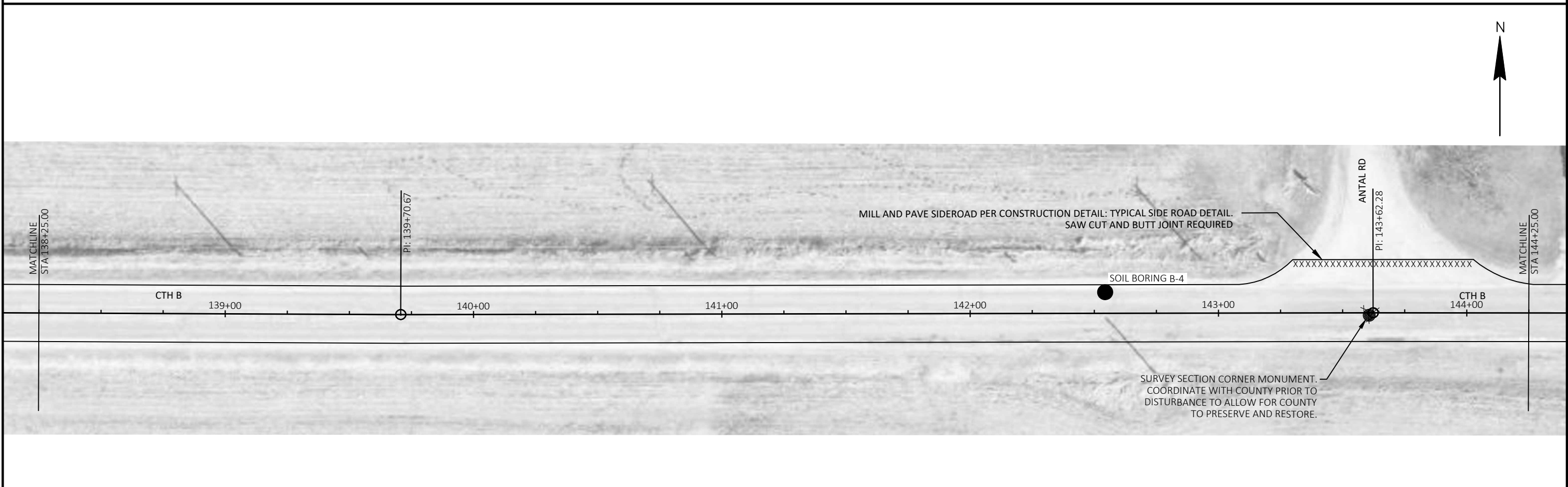
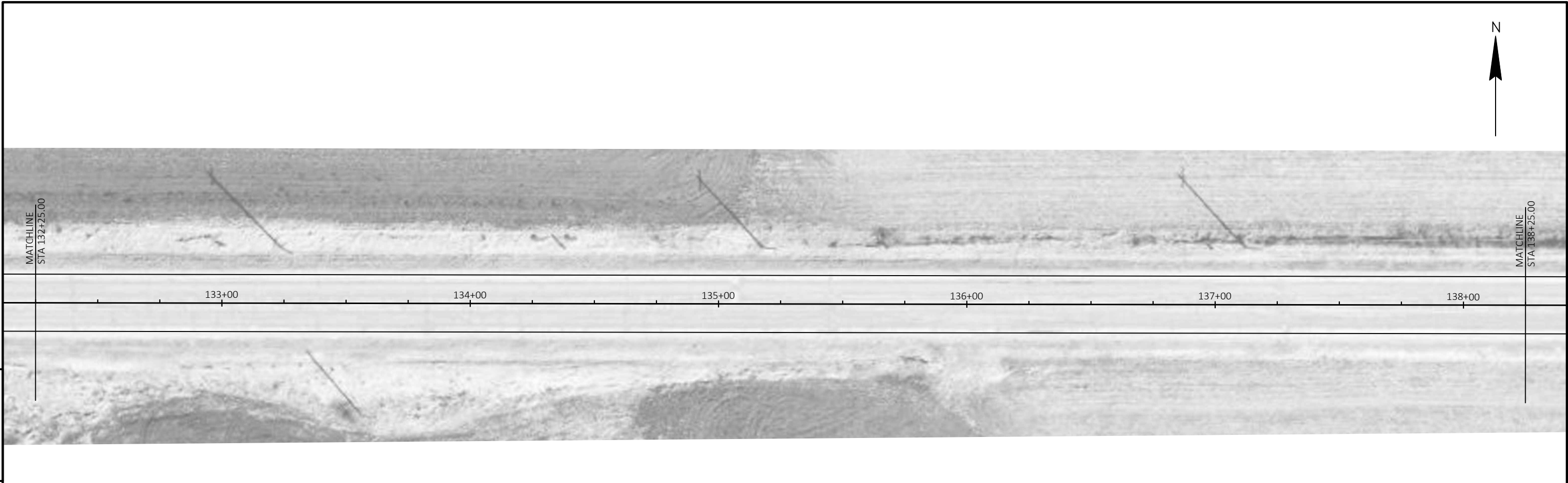




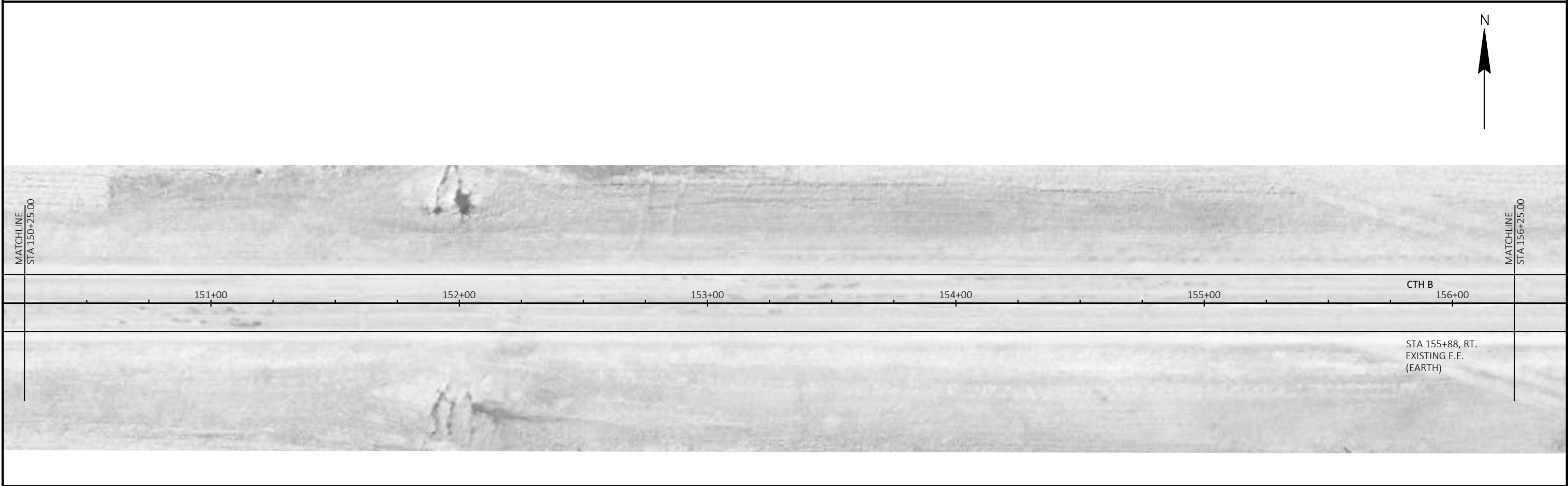
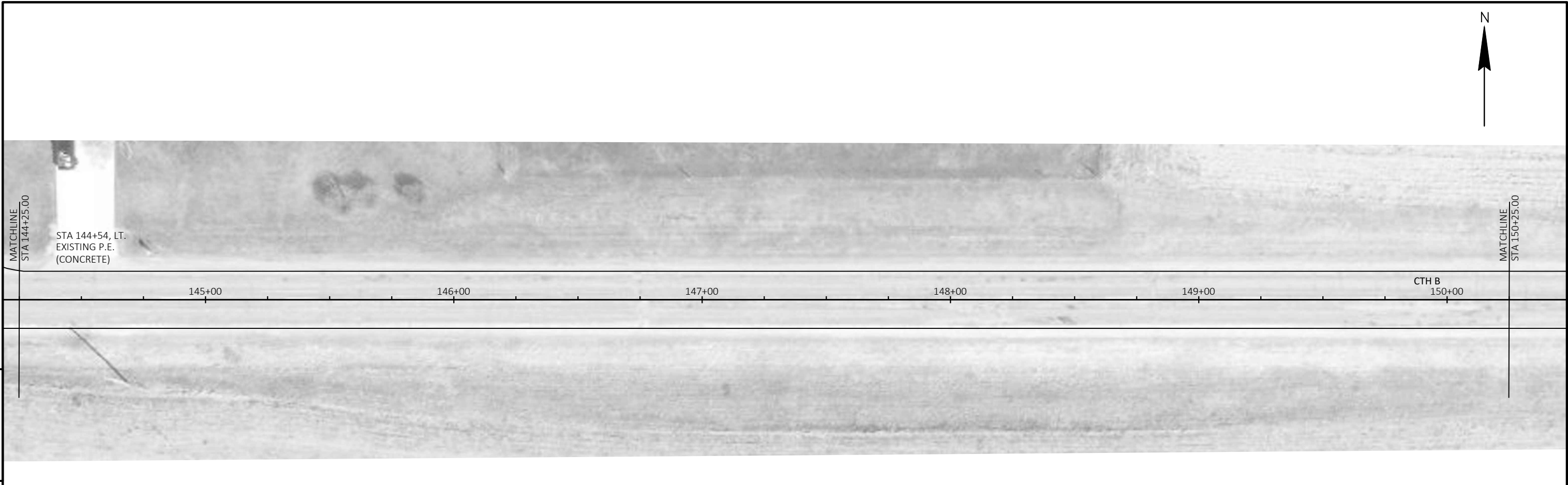


PROJECT NO: 5069-00-70	HWY: CTH B	COUNTY: LA CROSSE	PLAN - CTH B	SHEET 34	E
------------------------	------------	-------------------	--------------	----------	---

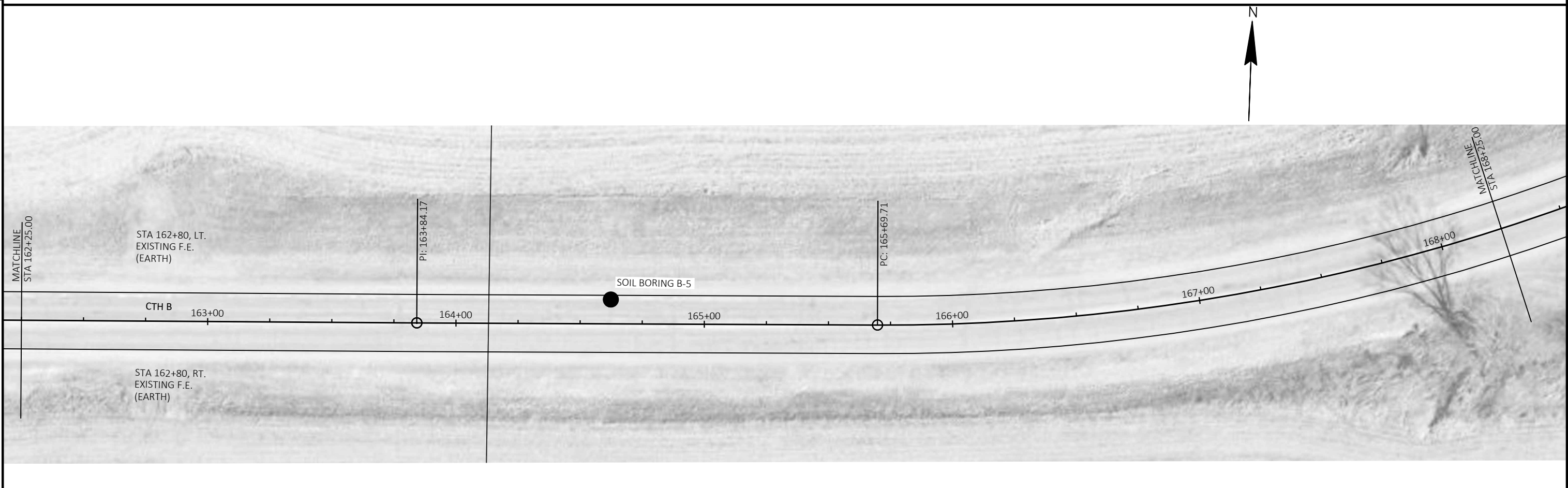
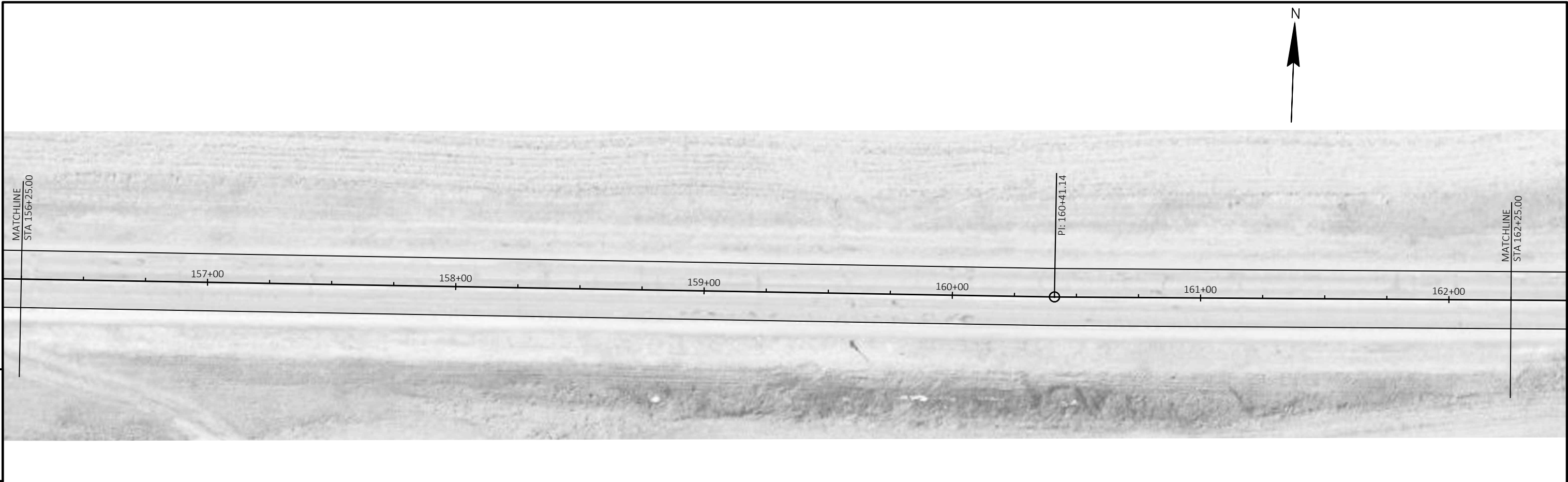




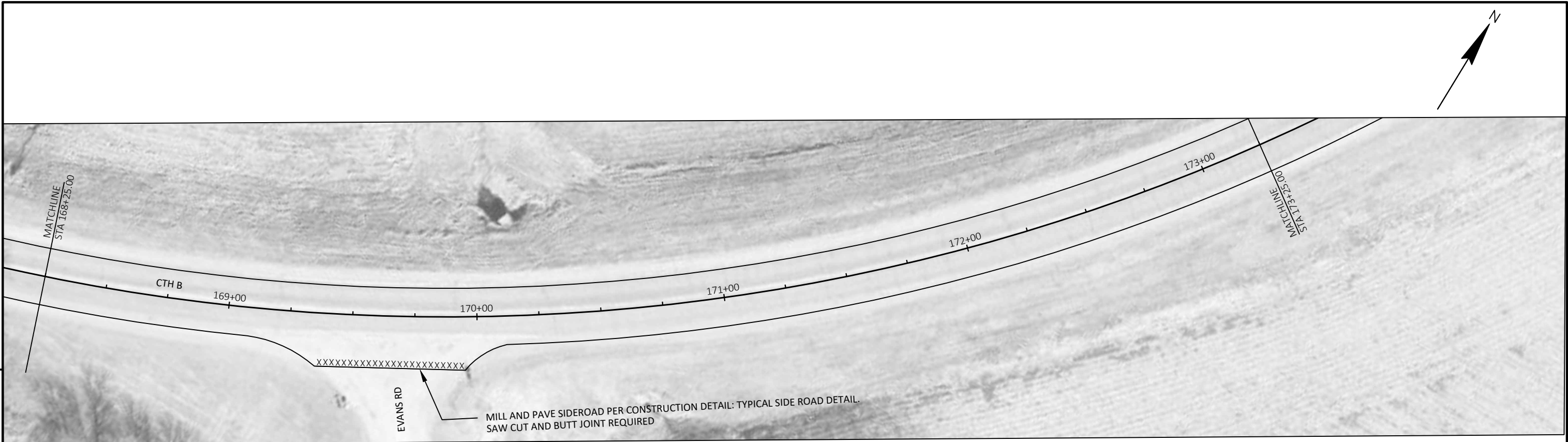
PROJECT NO: 5069-00-70	HWY: CTH B	COUNTY: LA CROSSE	PLAN - CTH B	SHEET 36	E
------------------------	------------	-------------------	--------------	----------	---



PROJECT NO: 5069-00-70	HWY: CTH B	COUNTY: LA CROSSE	PLAN - CTH B	SHEET 37	E
------------------------	------------	-------------------	--------------	----------	---

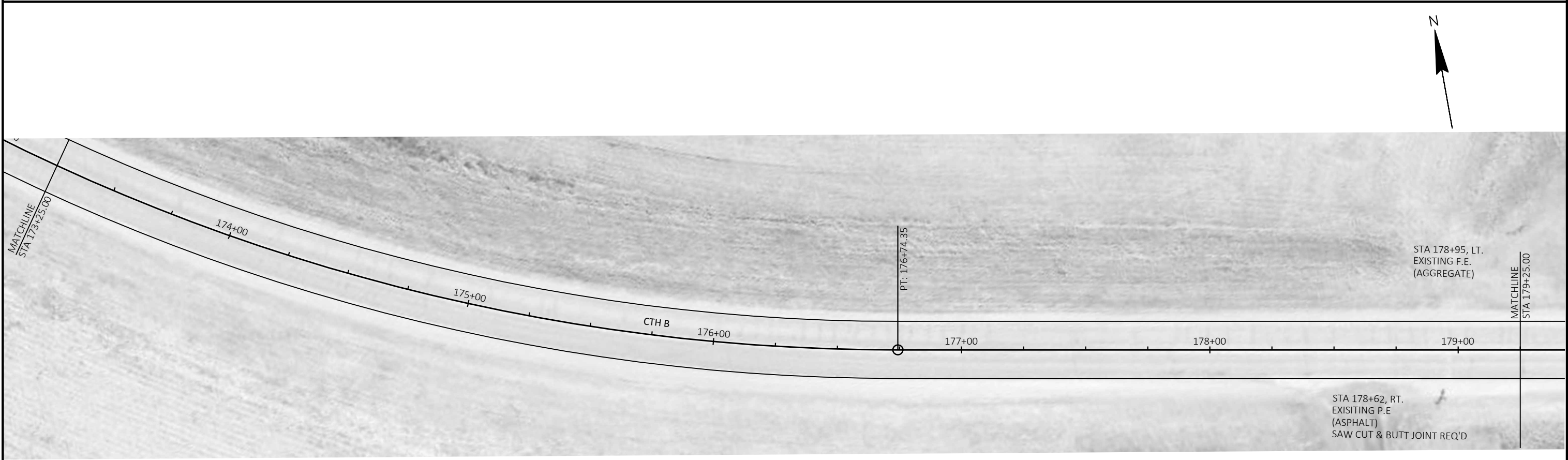


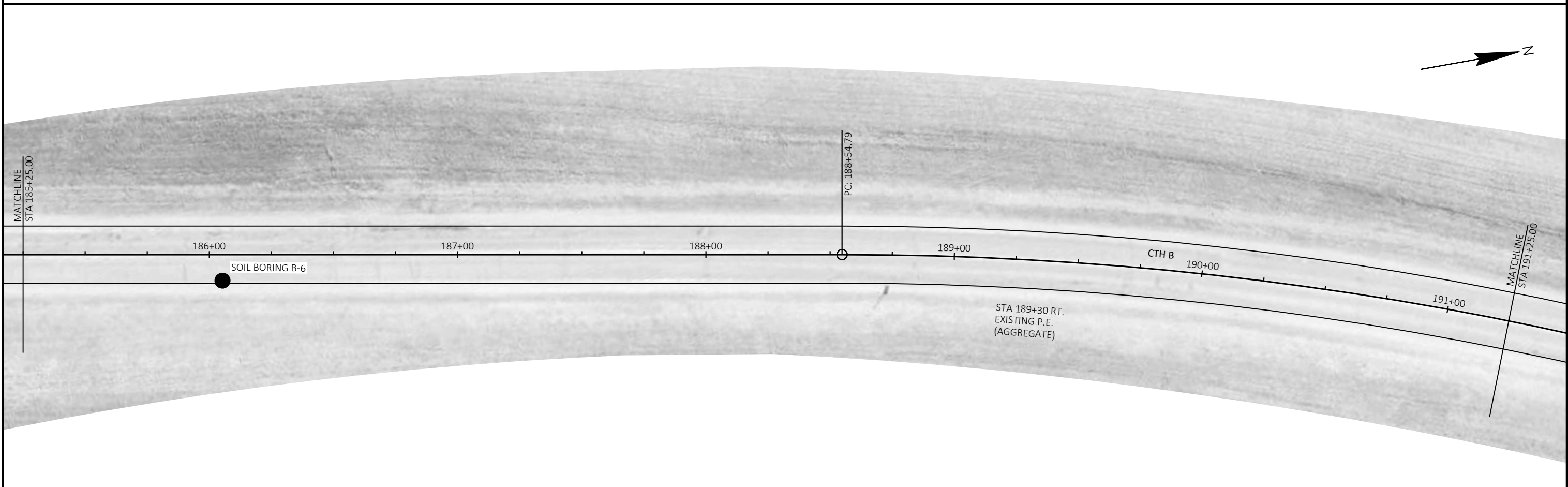
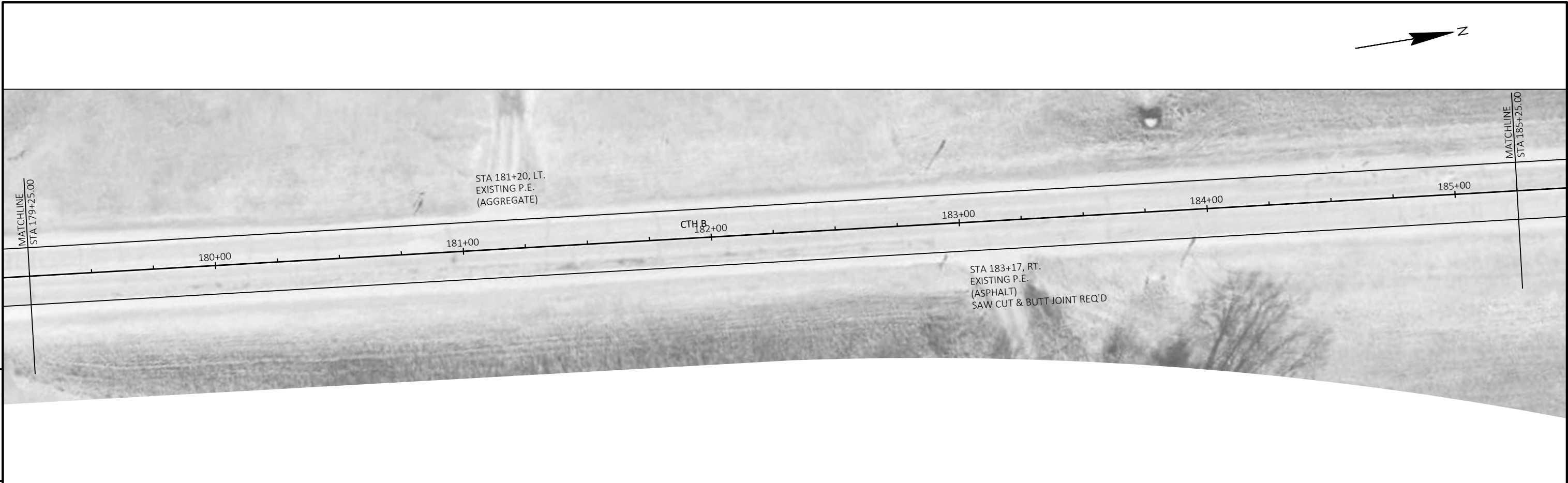
PROJECT NO: 5069-00-70	HWY: CTH B	COUNTY: LA CROSSE	PLAN - CTH B	SHEET 38	E
------------------------	------------	-------------------	--------------	----------	---



5

5



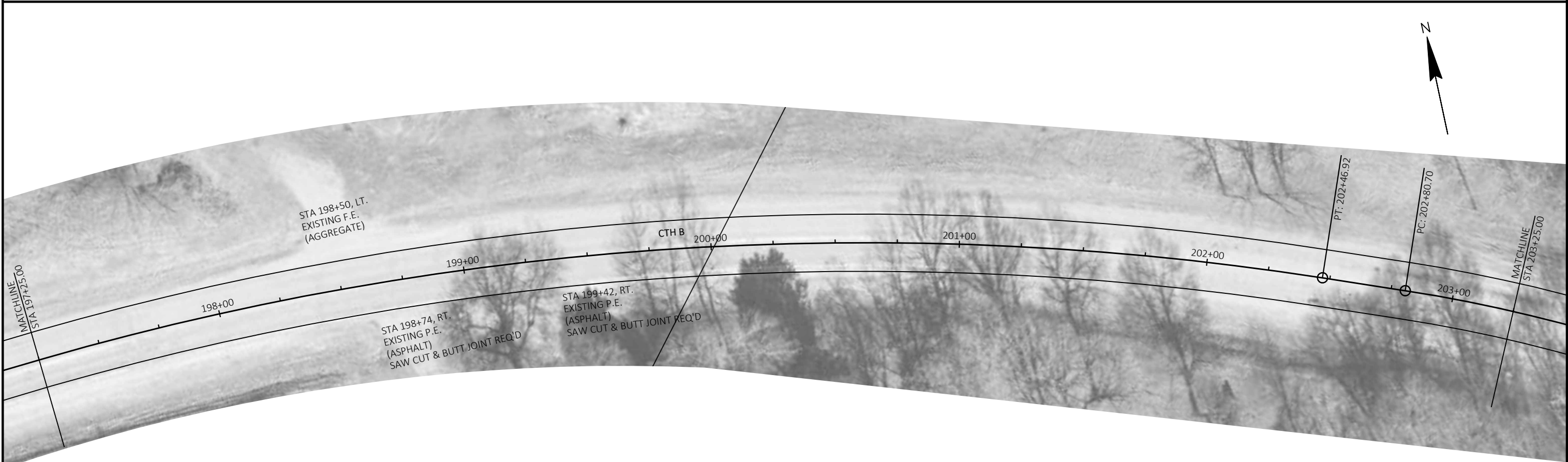


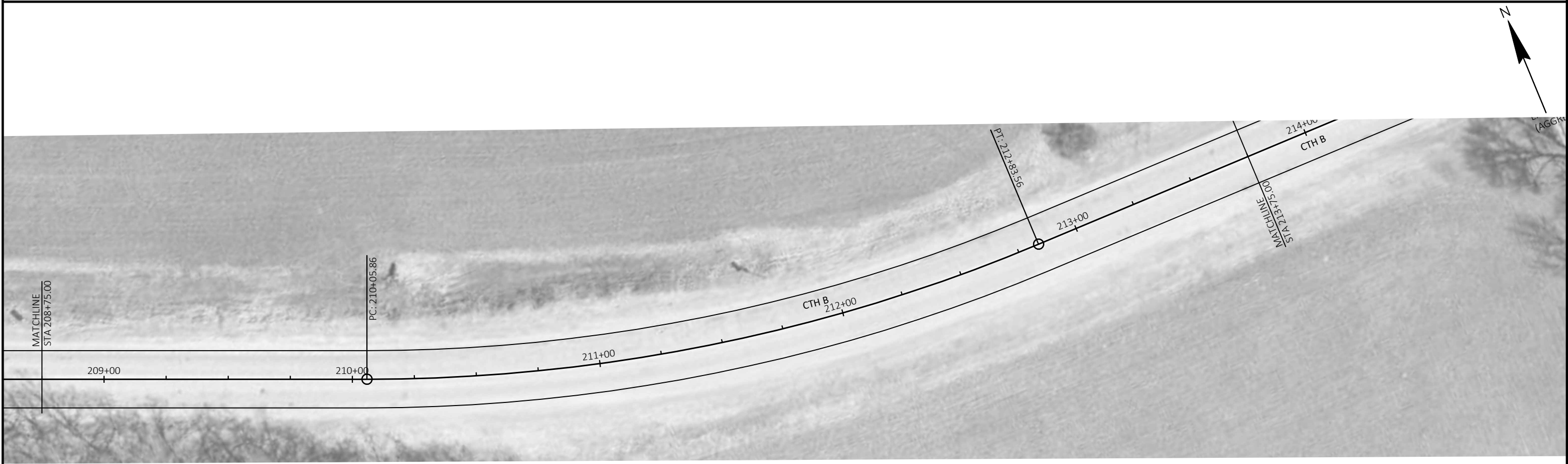
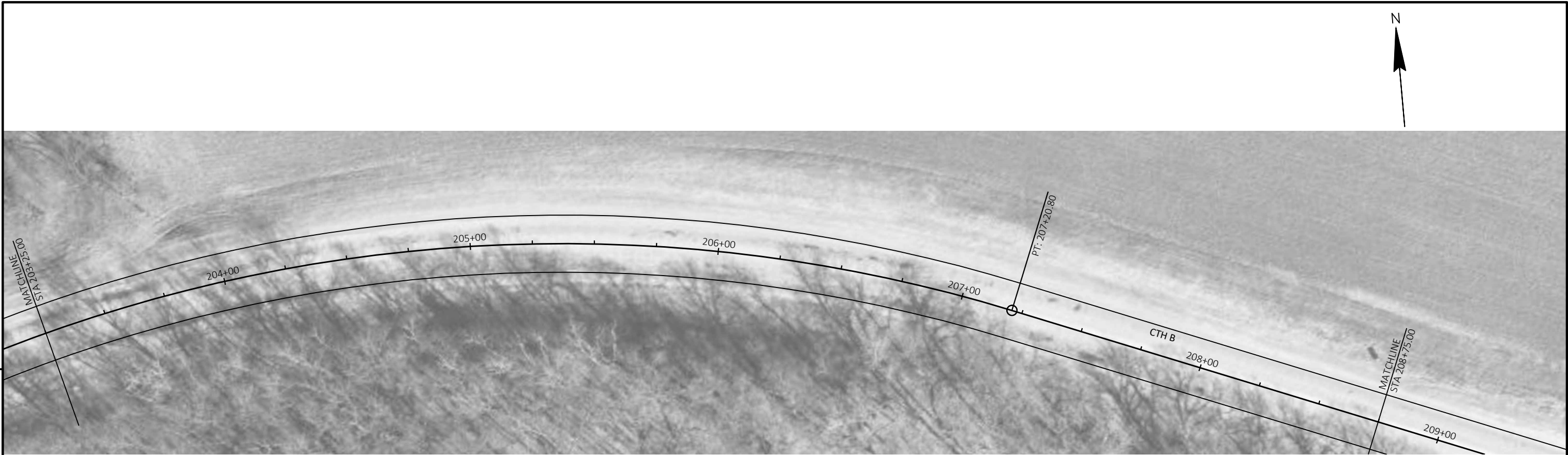
PROJECT NO: 5069-00-70	HWY: CTH B	COUNTY: LA CROSSE	PLAN - CTH B	SHEET 40	E
------------------------	------------	-------------------	--------------	----------	---

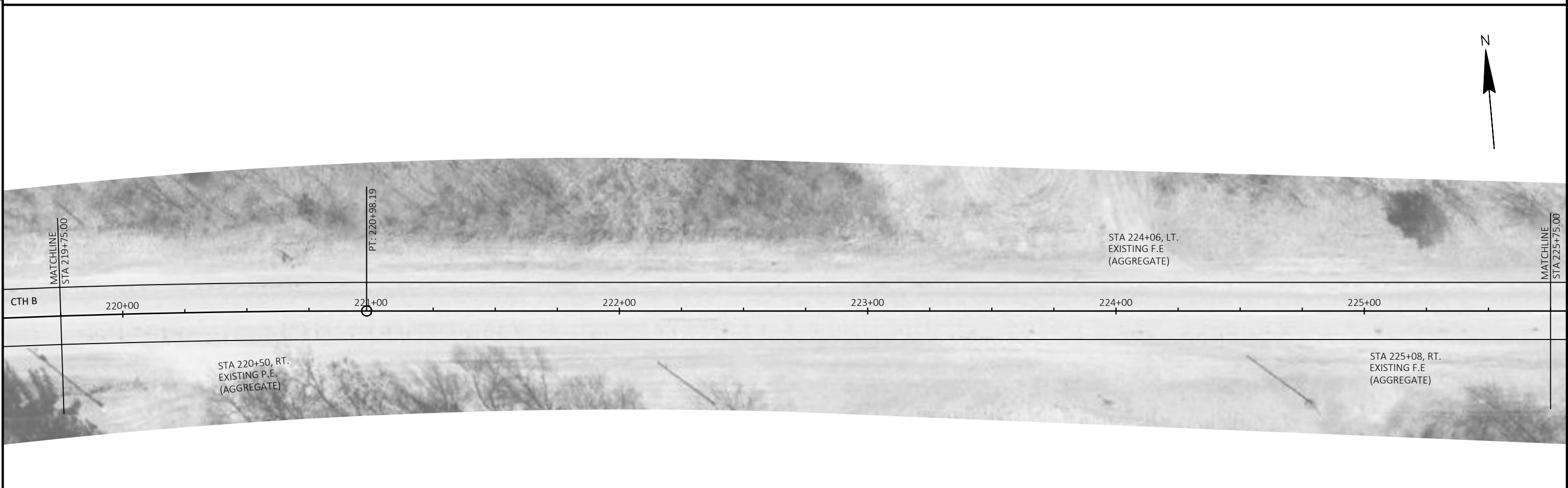
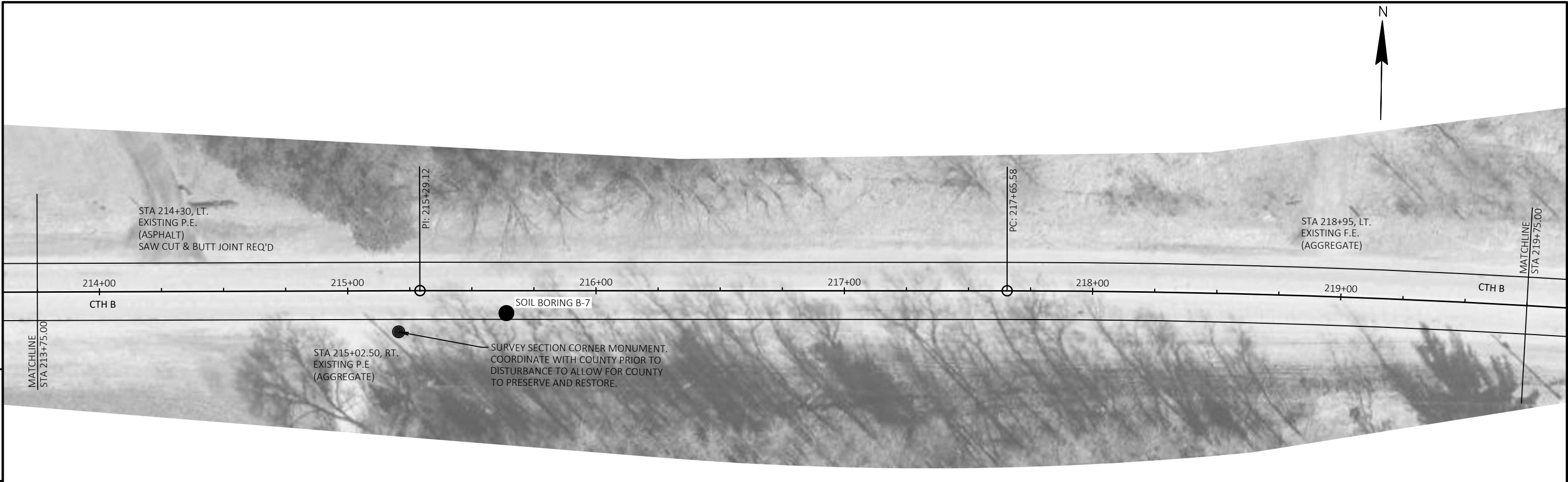


5

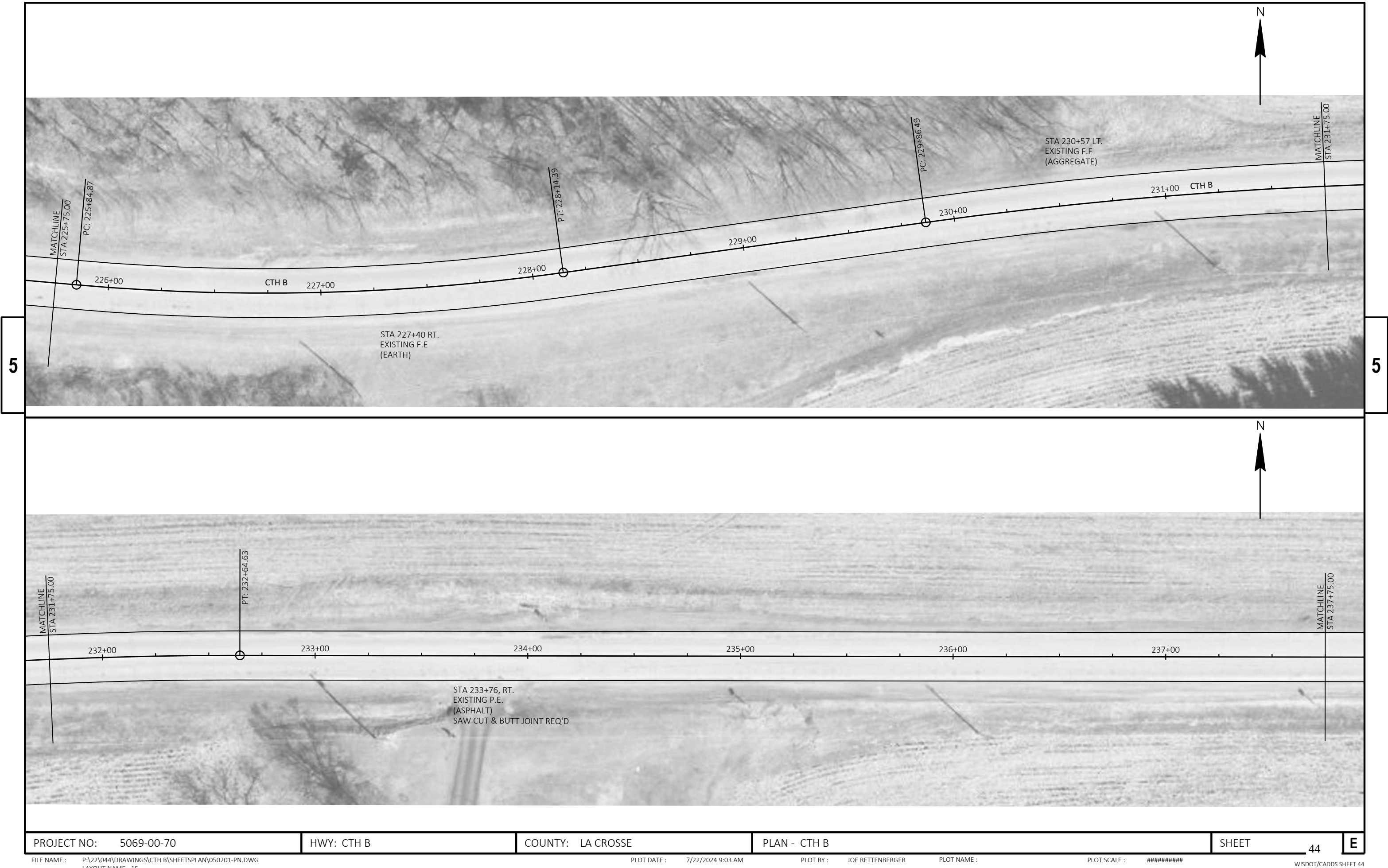
5

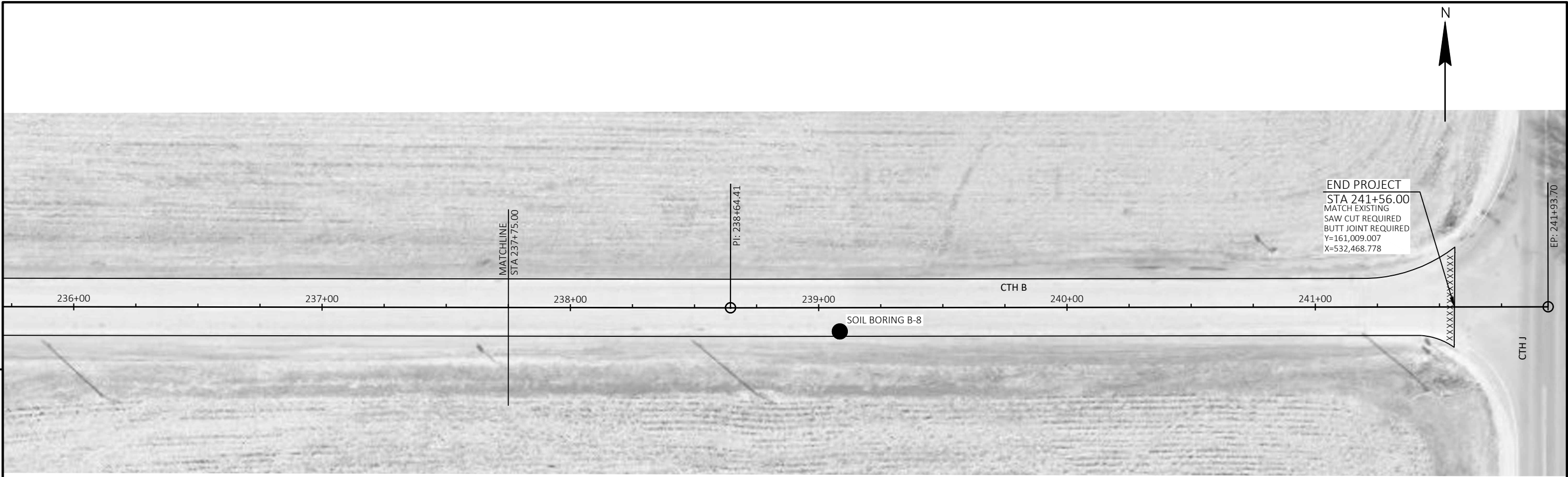






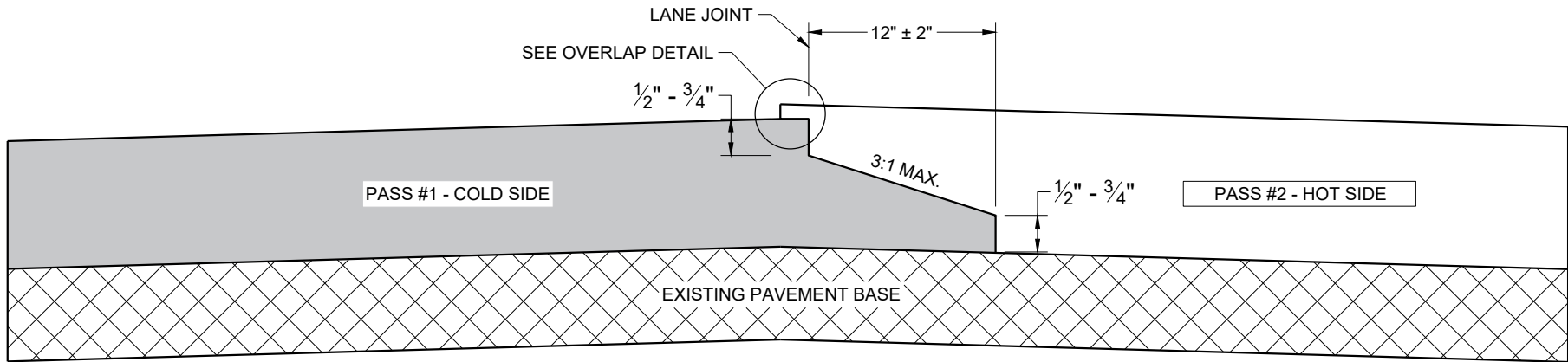
PROJECT NO: 5069-00-70	HWY: CTH B	COUNTY: LA CROSSE	PLAN - CTH B	SHEET 43	E
------------------------	------------	-------------------	--------------	----------	---



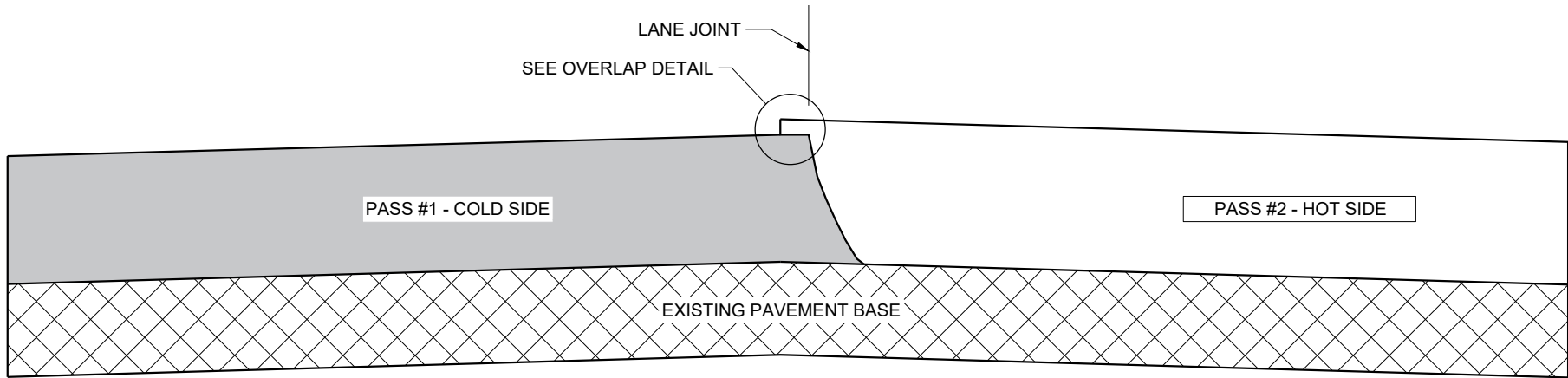


Standard Detail Drawing List

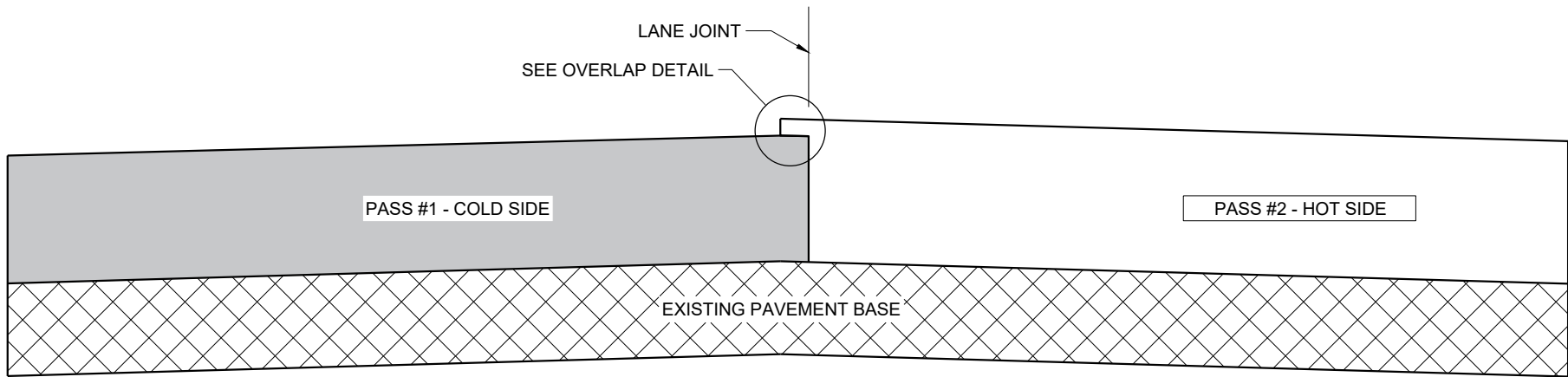
13C19-03	HMA LONGITUDINAL JOINTS
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

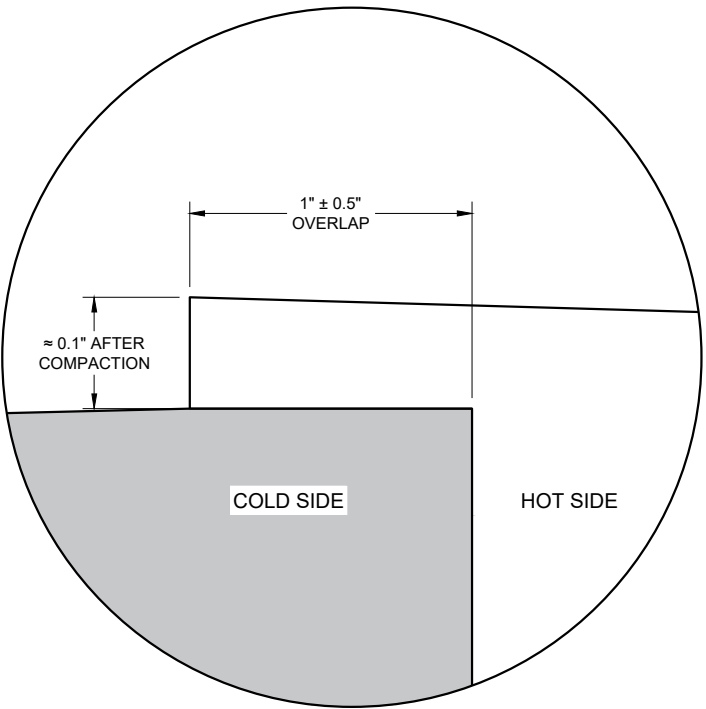
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY $1" \pm 0.5"$ AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY $0.1"$ AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO $2"$ FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.

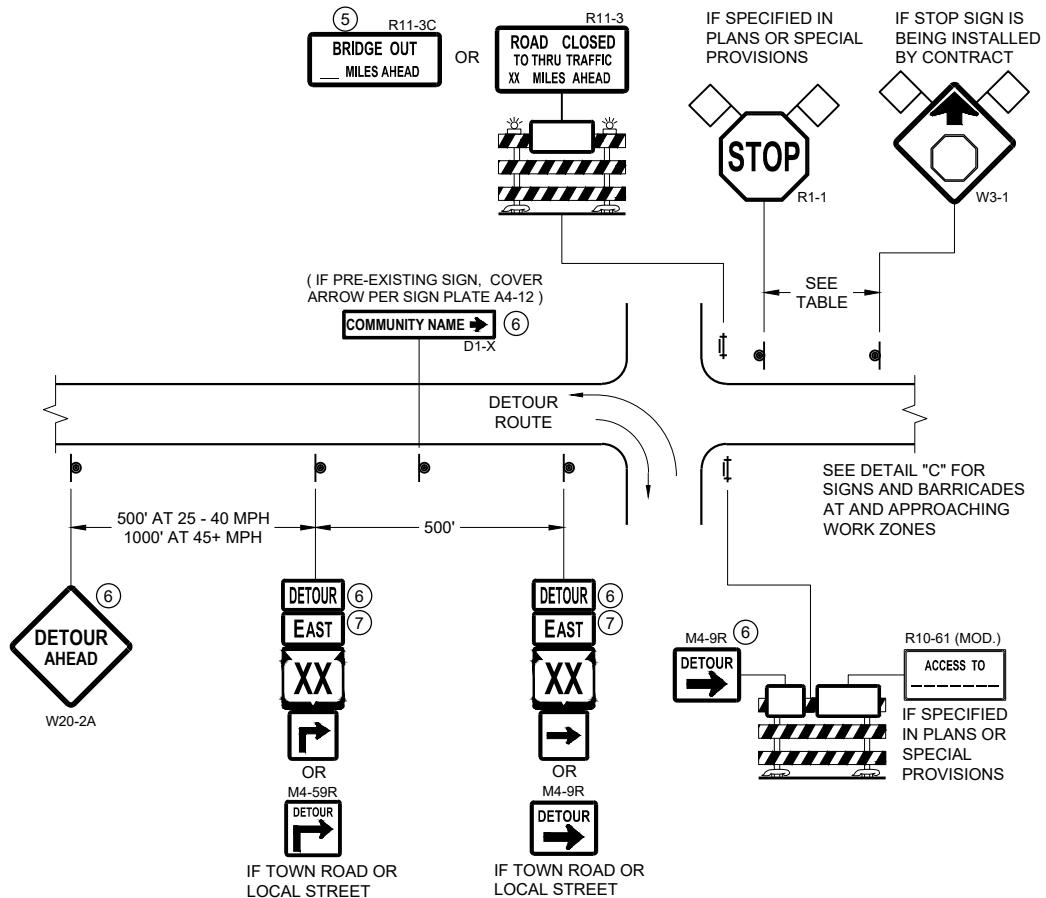


OVERLAP DETAIL (TYPICAL)

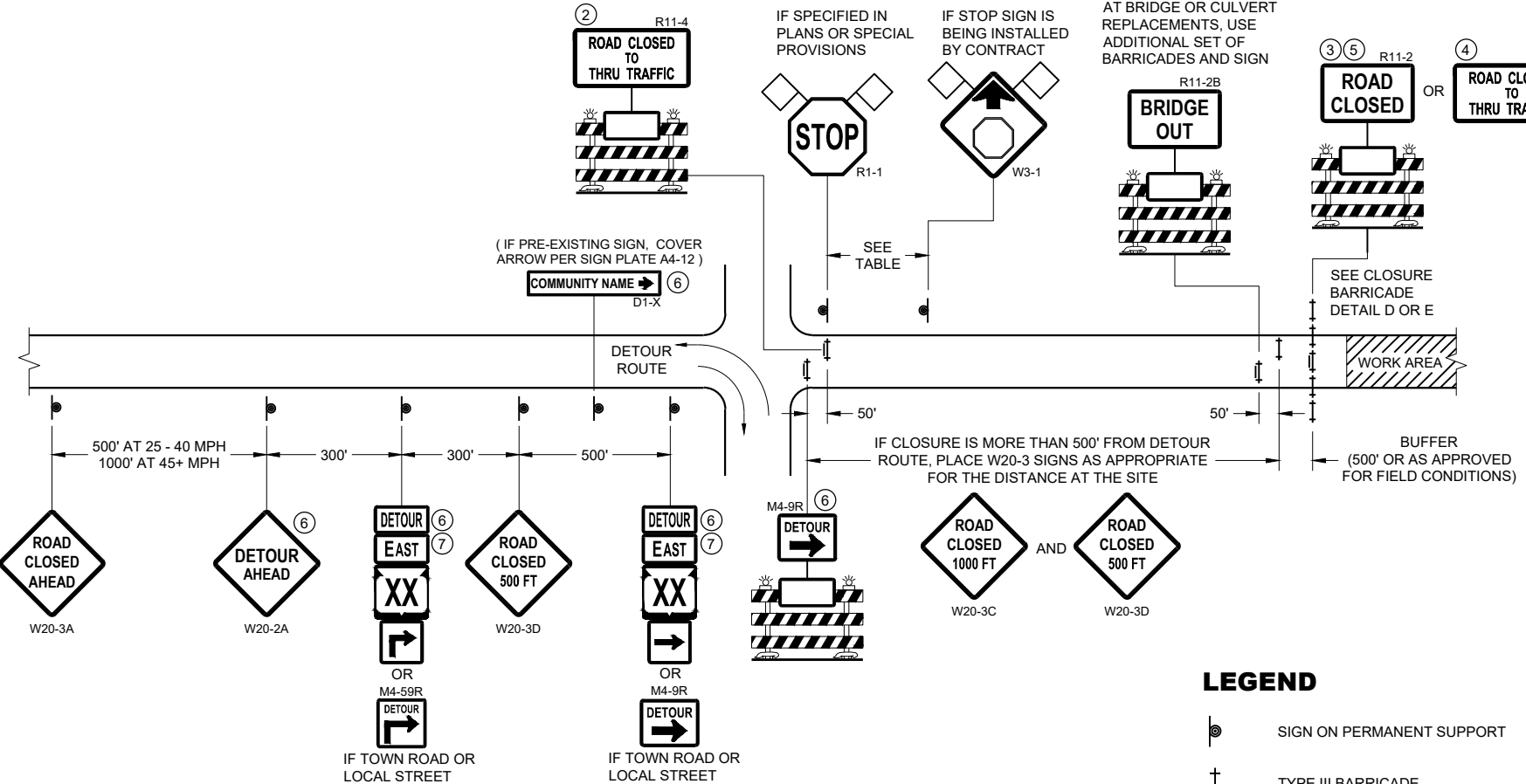
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020 /S/ Steven Hefel
DATE HMA PAVEMENT ENGIN 47
FHWA



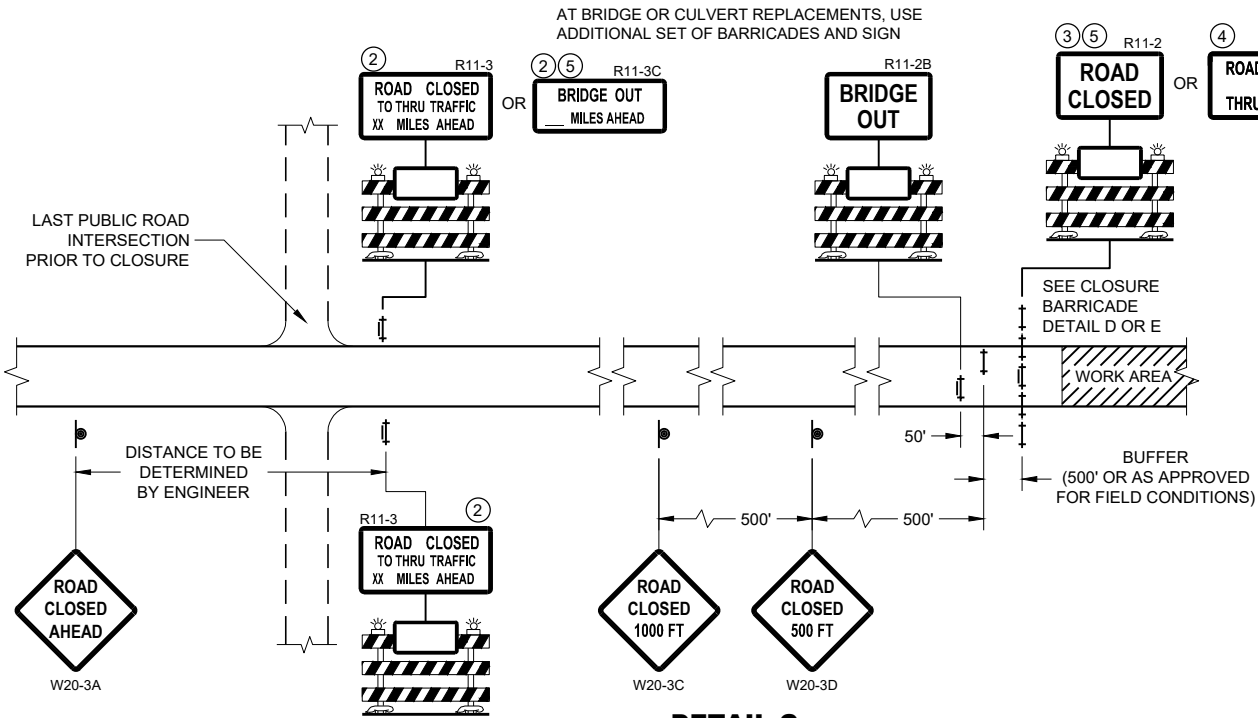
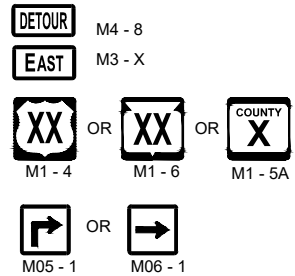
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR
WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR
WORK ZONE LESS THAN ½ MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

- LEGEND**
- SIGN ON PERMANENT SUPPORT
 - TYPE III BARRICADE
 - TYPE III BARRICADE WITH ATTACHED SIGN
 - TYPE "A" WARNING LIGHT (FLASHING)
 - WORK AREA
 - FLAGS, 16" X 16" MIN. (ORANGE)

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

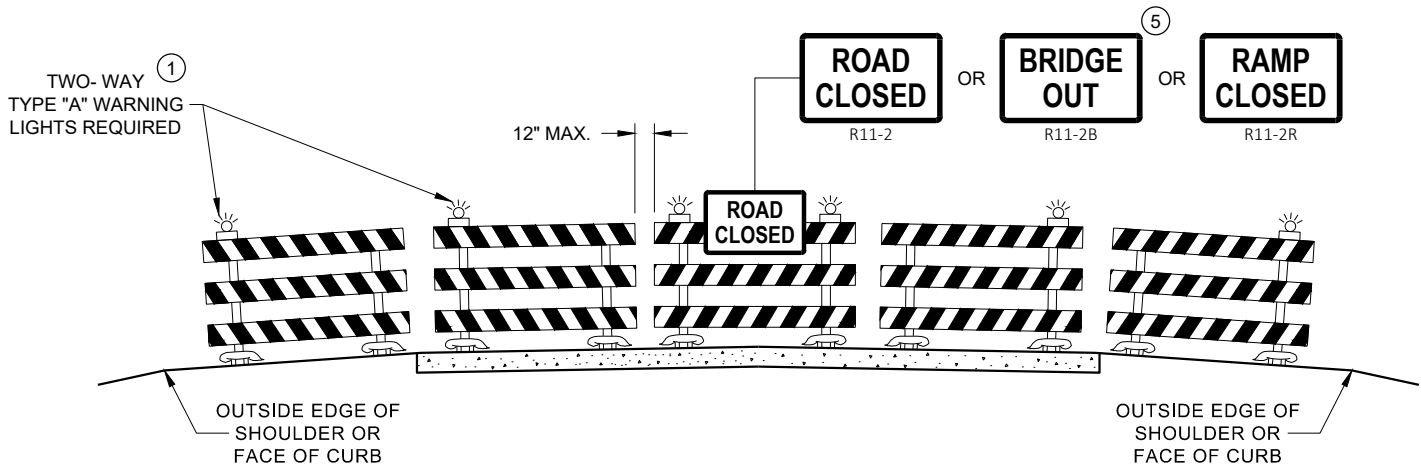
SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

**BARRICADES AND SIGNS
FOR MAINLINE CLOSURES**

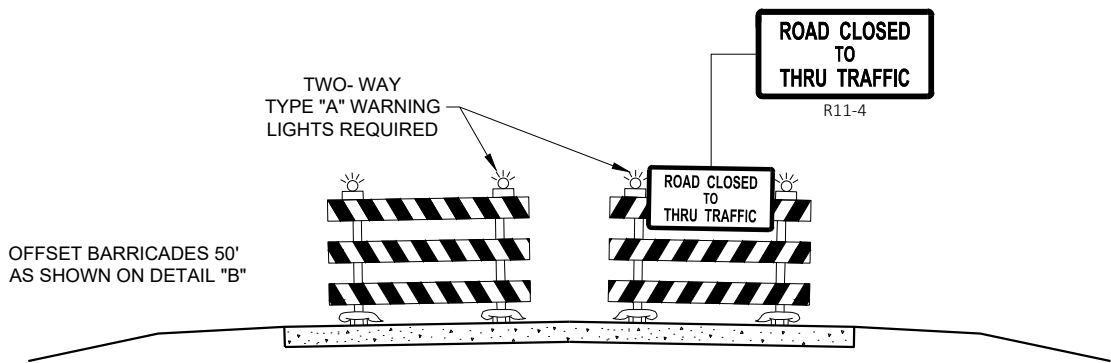
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 48

FHWA



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"

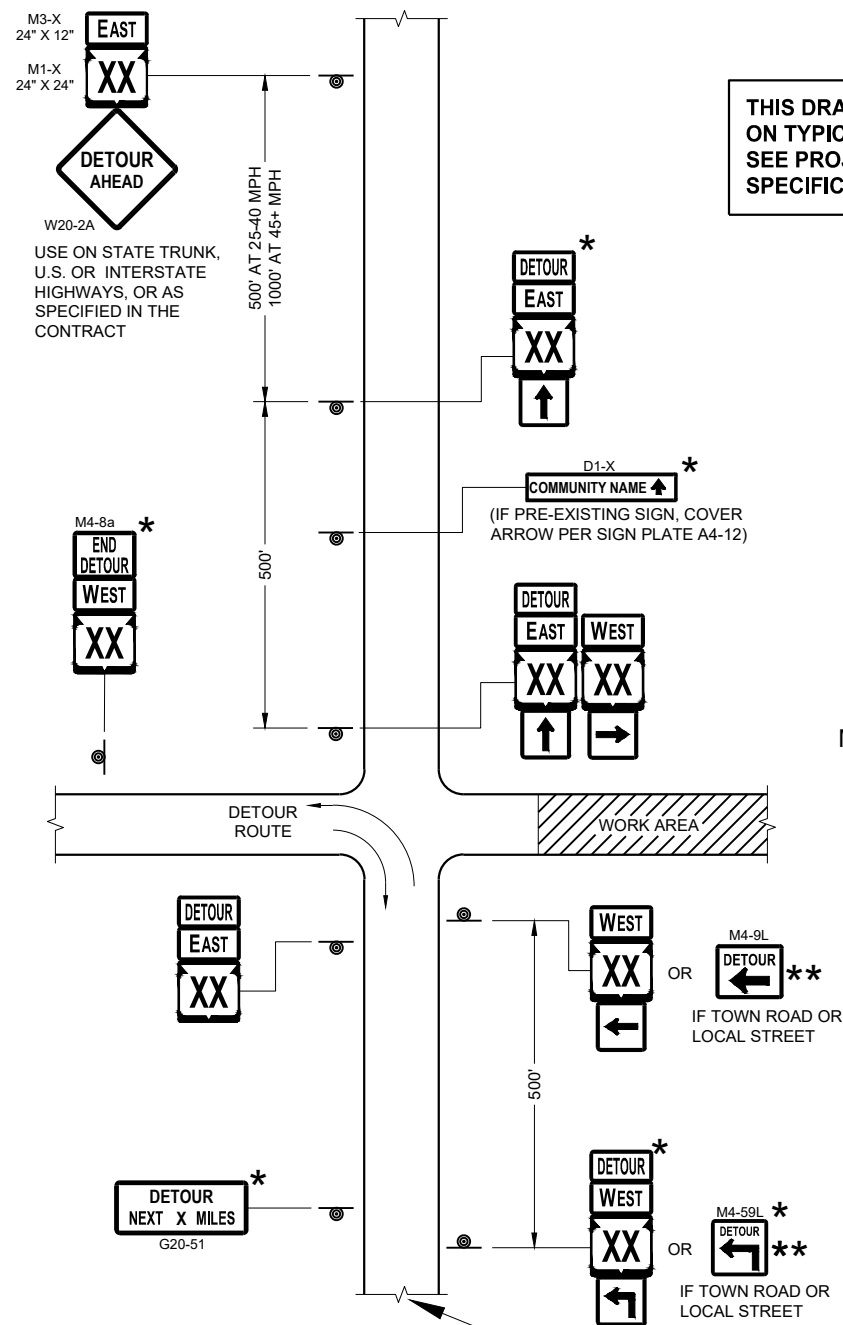
- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- 2 THESE SIGNS 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.

BARRICADES AND SIGNS
FOR
VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 49

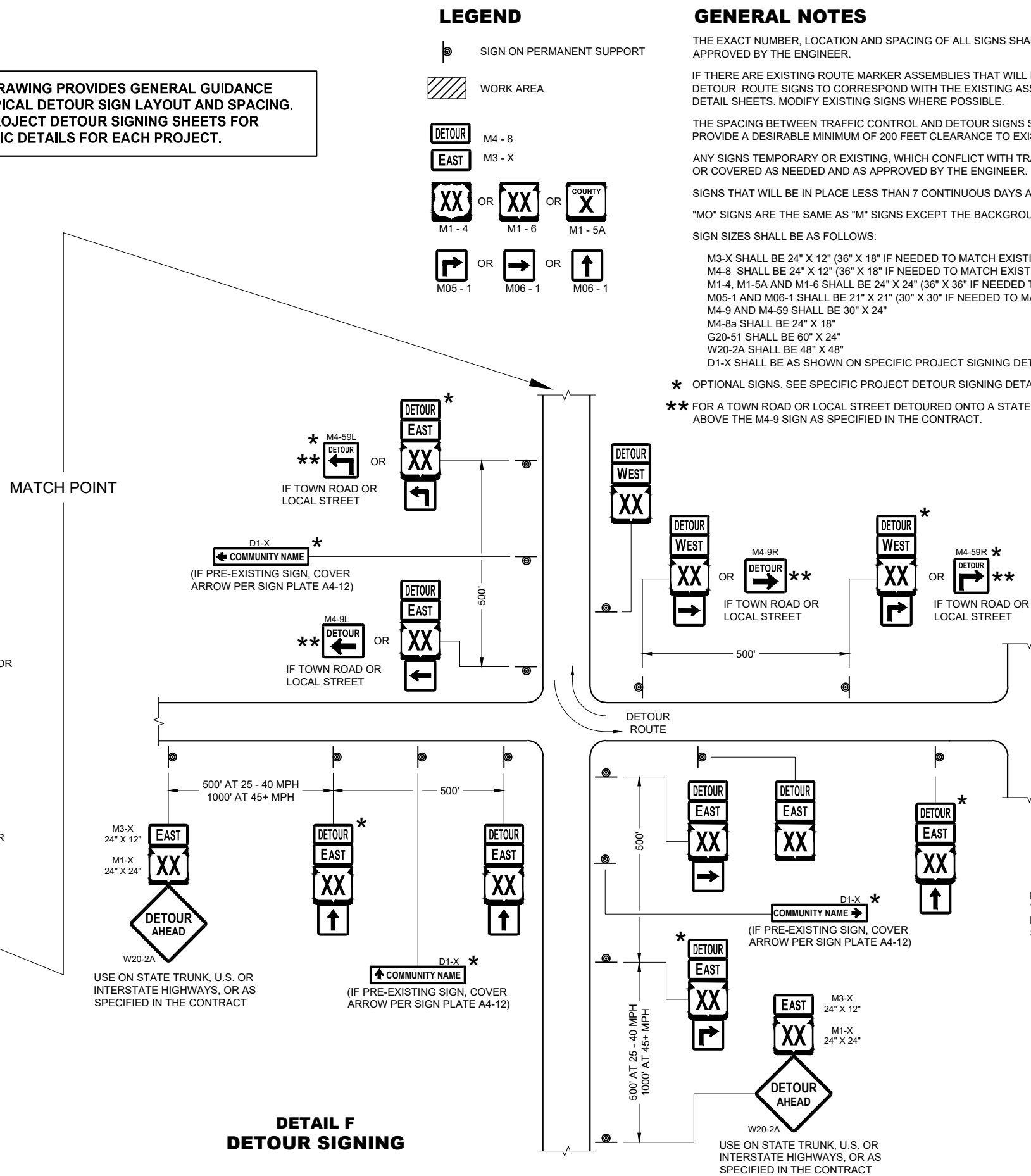
FHWA



**THIS DRAWING PROVIDES GENERAL GUIDANCE
ON TYPICAL DETOUR SIGN LAYOUT AND SPACING.
SEE PROJECT DETOUR SIGNING SHEETS FOR
SPECIFIC DETAILS FOR EACH PROJECT.**

SEE SPECIFIC PROJECT DETOUR
SIGNING DETAIL SHEETS AND
DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

SDD 15C02 - 09c



DETAIL F DETOUR SIGNING

GENERAL NOTES

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

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. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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.

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

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

SIGN SIZES SHALL BE AS FOLLOWS:

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)
M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
M4-9 AND M4-59 SHALL BE 30" X 24"
M4-8a SHALL BE 24" X 18"
G20-51 SHALL BE 60" X 24"
W20-2A SHALL BE 48" X 48"
D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

**** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.**

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

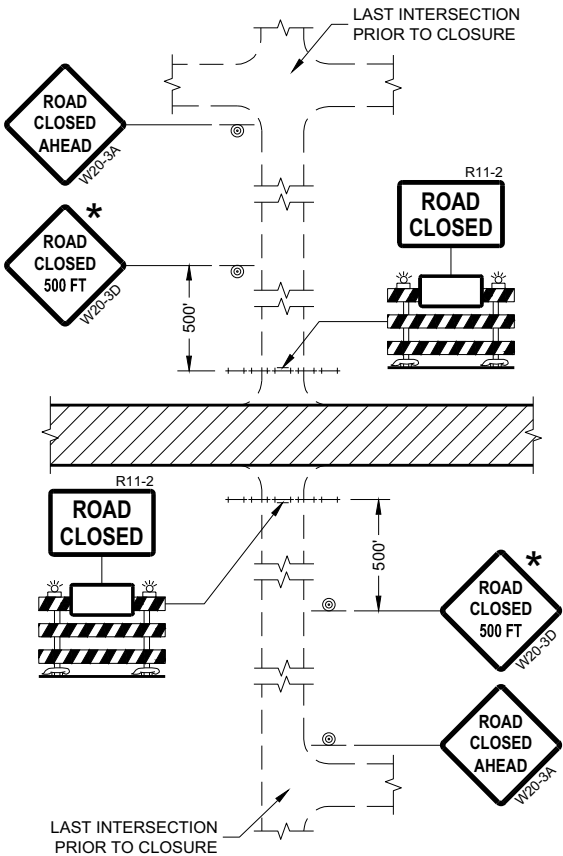
APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

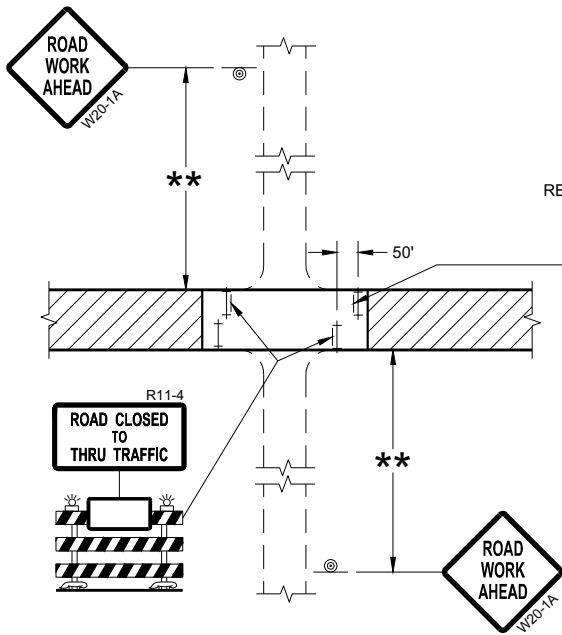
50

FHWA

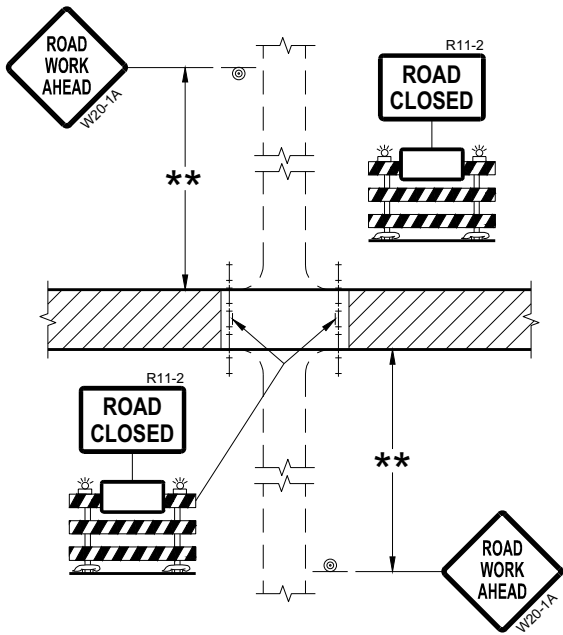
SDD15C02 - 09c



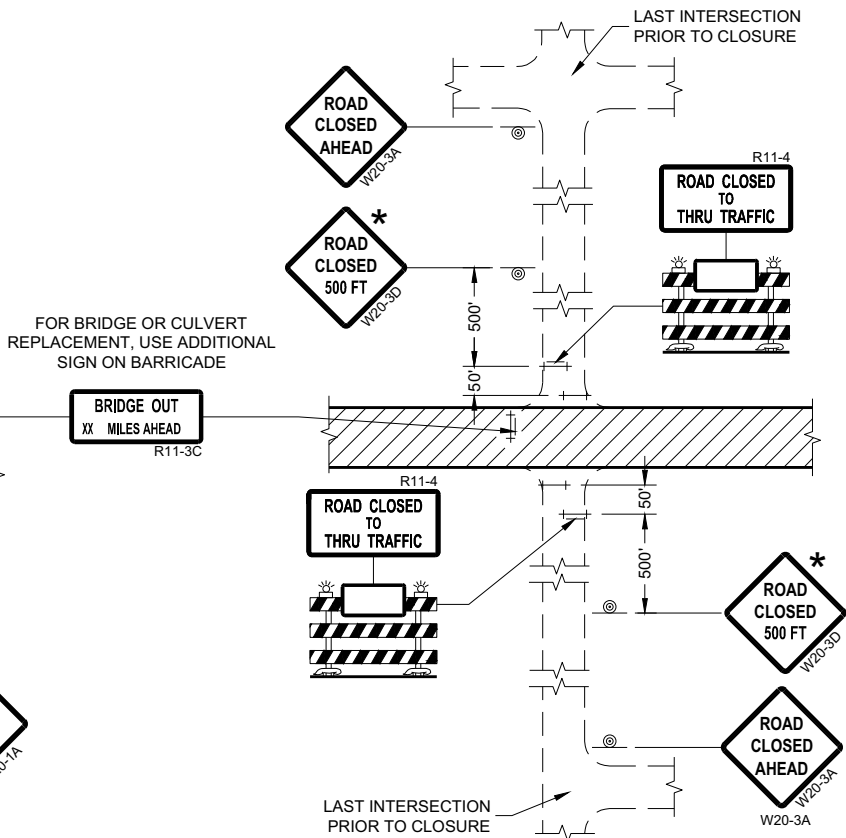
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

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

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

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 REESTABLISHED.

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

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

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

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

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

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

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

**BARRICADES AND SIGNS
FOR
SIDEROAD CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 51

FHWA

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" X 48" UNLESS OTHERWISE NOTED.

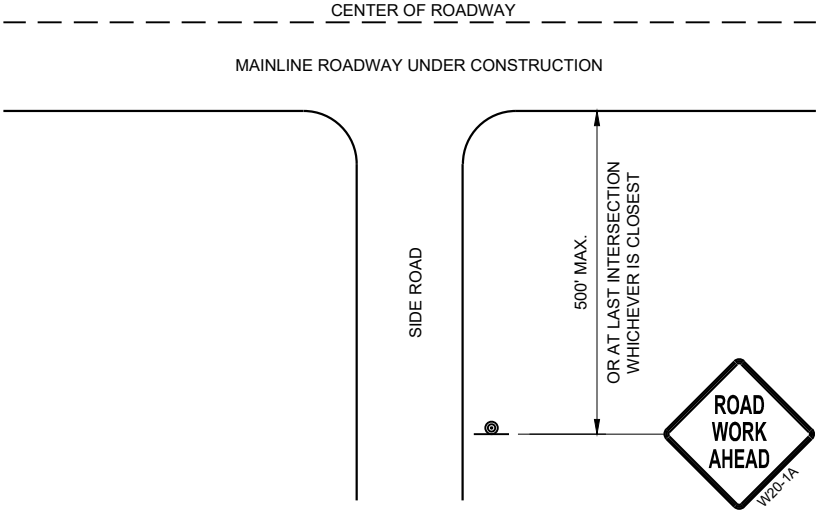
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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 REESTABLISHED.

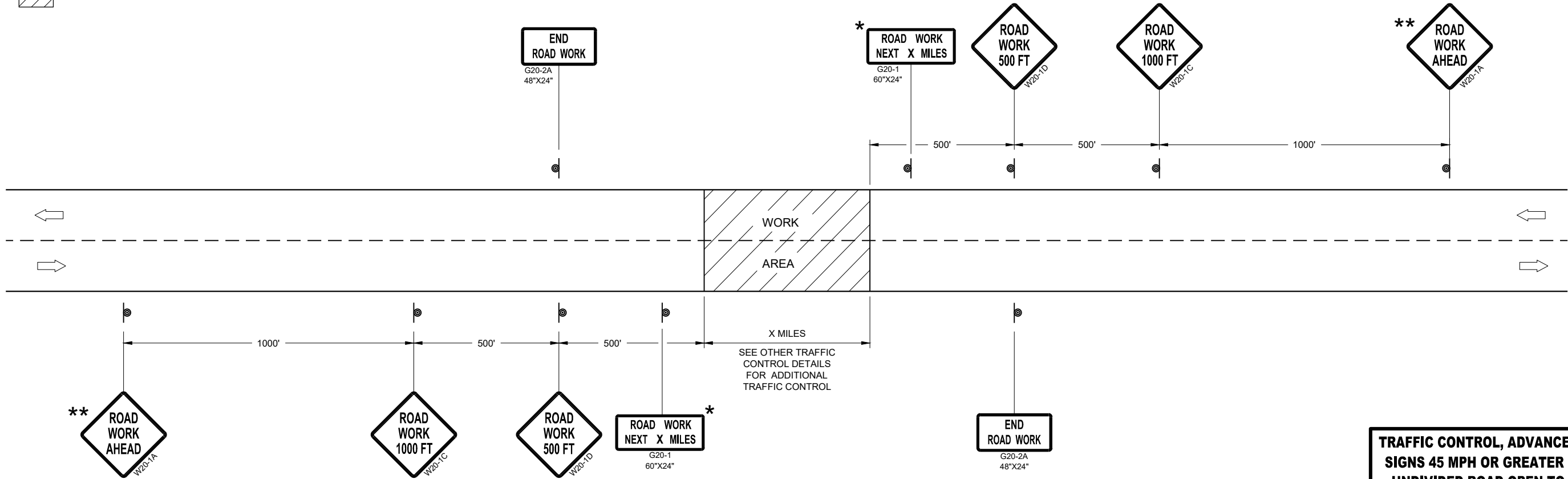
- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS
- ** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA



TYPICAL SIDE ROAD APPROACH
WARNING SIGN DETAIL



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING
SIGNS 45 MPH OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 52
FHWA

SDD 15C08-23a



SDD 15C08-23a

LEGEND

-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TEMPORARY PORTABLE RUMBLE STRIP ARRAY
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

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.

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

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

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND 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.

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.

FLAGGING

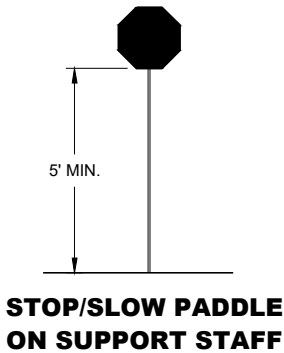
FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

- ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

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.

TEMPORARY PORTABLE RUMBLE STRIPS

- UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER
- ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.
- INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.
- PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.
- DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

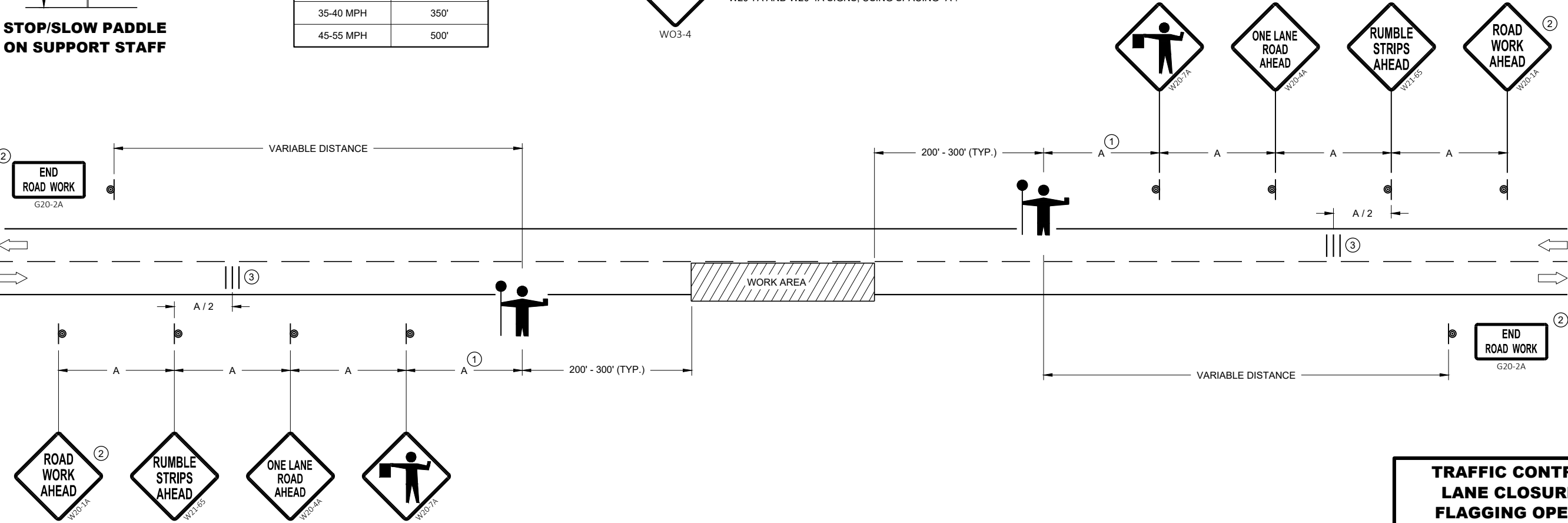


SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



**TRAFFIC CONTROL FOR
LANE CLOSURE WITH
FLAGGING OPERATION**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 54

FHWA

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  DIRECTION OF TRAFFIC
-  WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

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

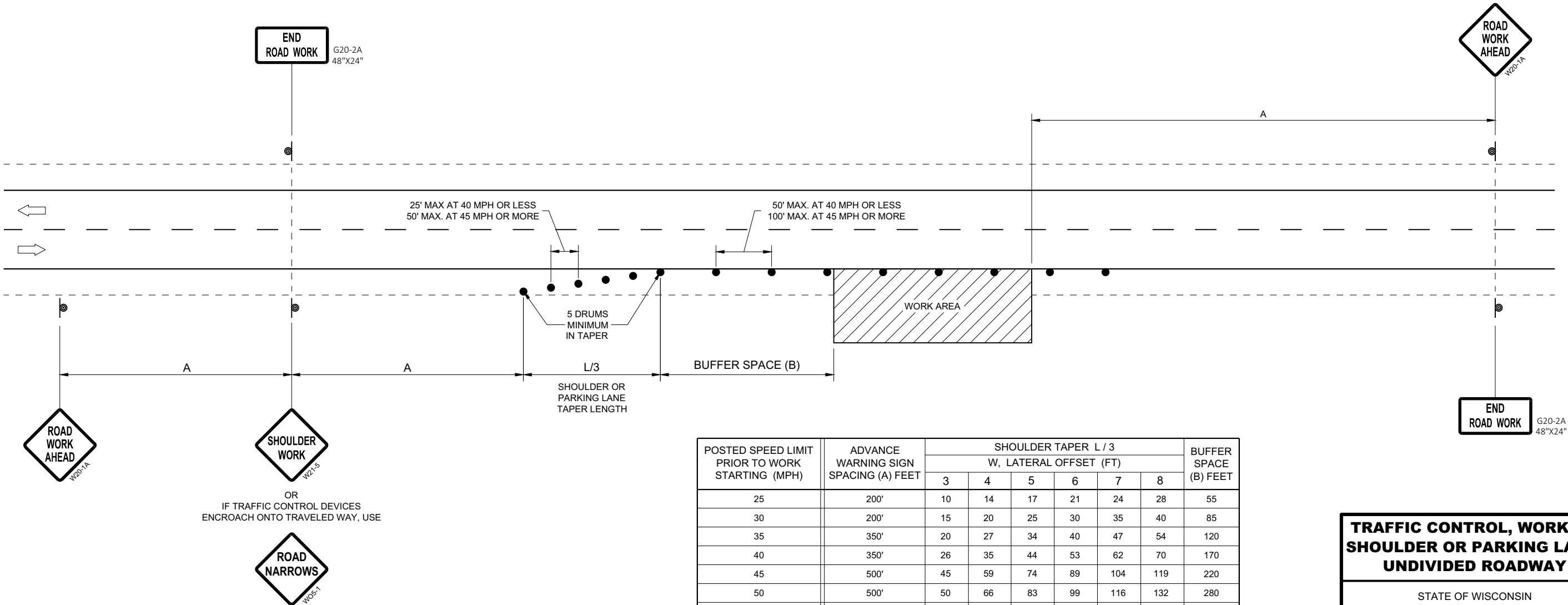
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON
SHOULDER OR PARKING LANE,
UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 /S/ Andrew Heidtke
DATE STATEWIDE WORK ZONE T 55
SAFETY ENGINEER
FHWA

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

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

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

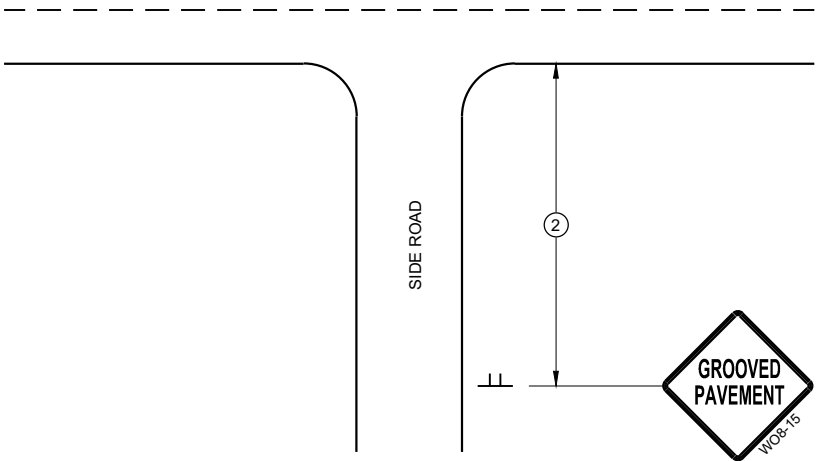
ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

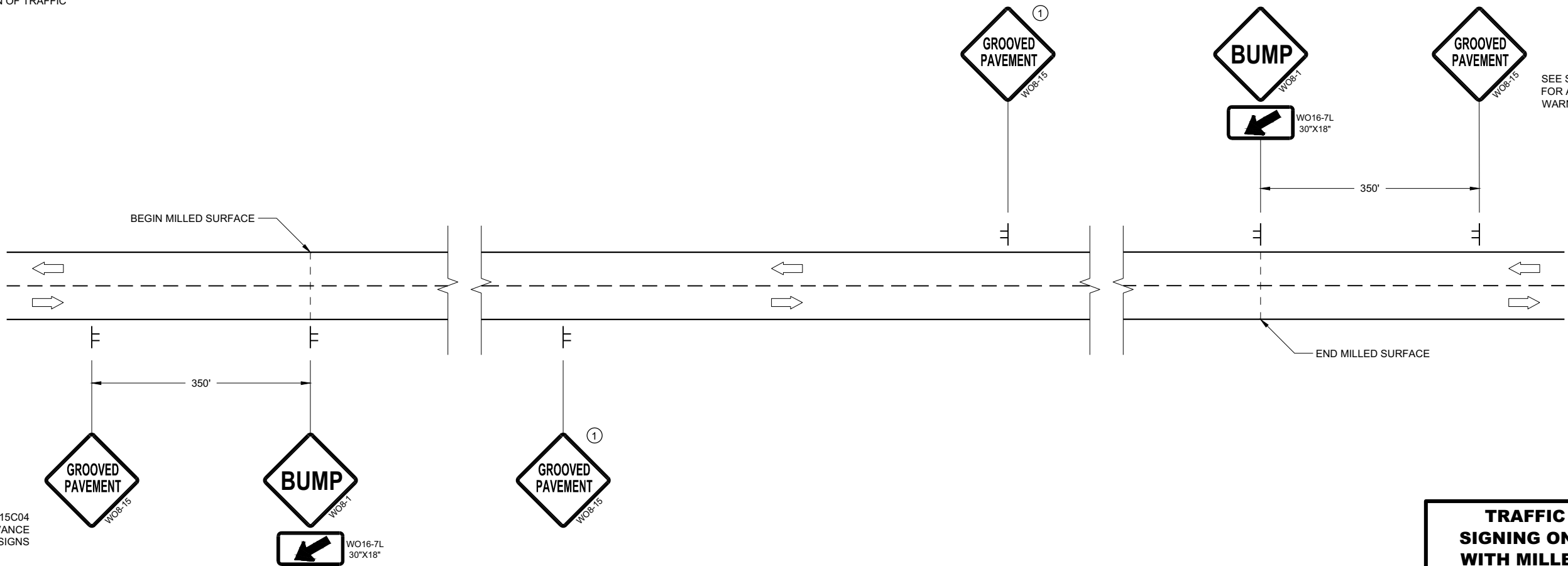
- ① PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
- ② PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

LEGEND

-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH
SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

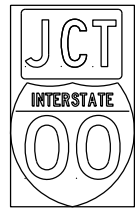
TRAFFIC CONTROL,
SIGNING ON ROADWAYS
WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

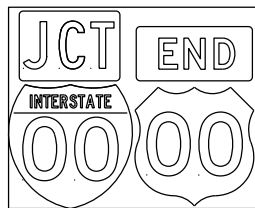
APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 56

FHWA

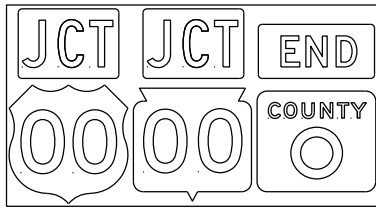
TYPICAL ASSEMBLIES



J1-1



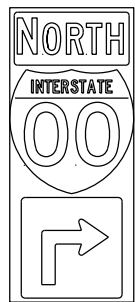
J1-2



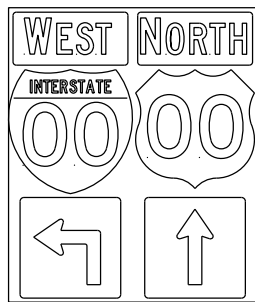
J1-3



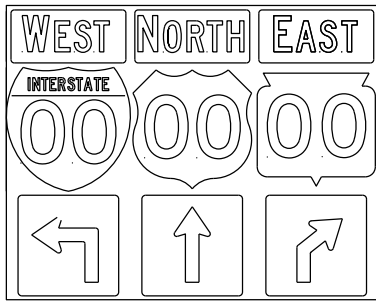
JR1-1



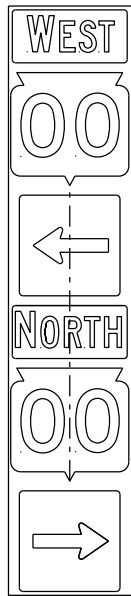
J2-1



J2-2

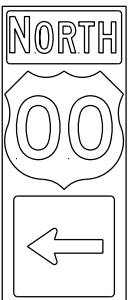


J2-3

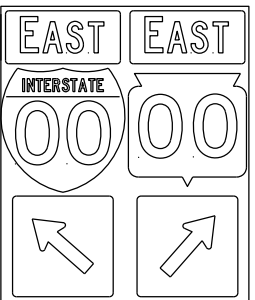


JV

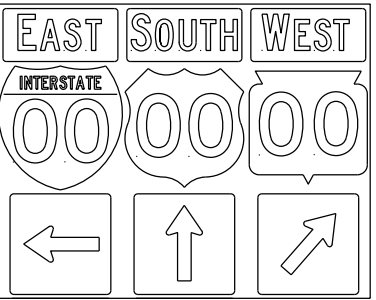
(Typical Vertical J-Assembly
See Note 10 and 11)



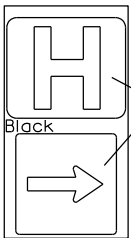
J3-1



J3-2



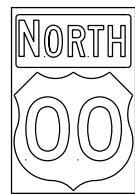
J3-3



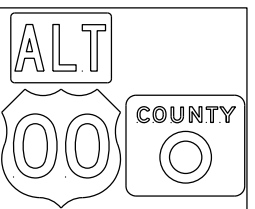
JH-1

Blue Background

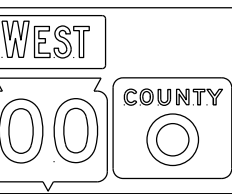
Black



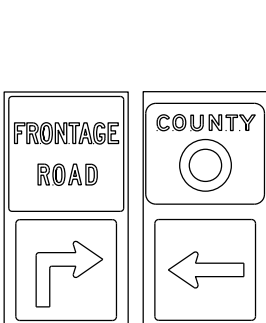
J4-1



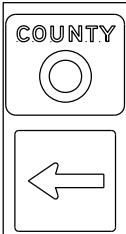
J4-2



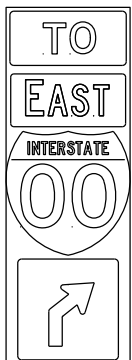
J4-2



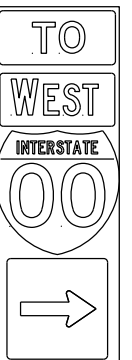
J12-1



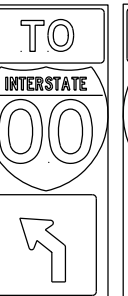
J13-1



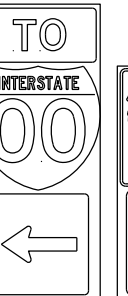
J32-1



J33-1



J22-1



J23-1



JR13-1

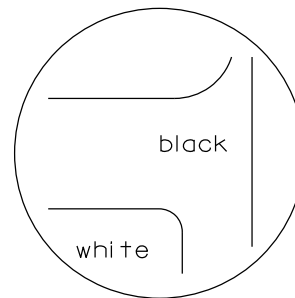
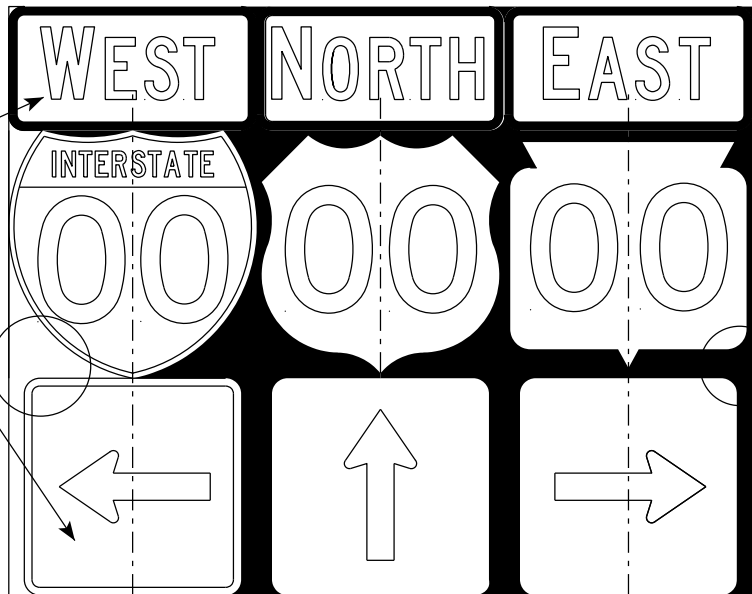
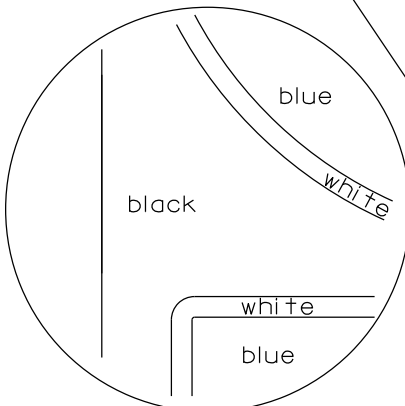


JR23-1



JR99-1

blue background
with interstate



black background

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

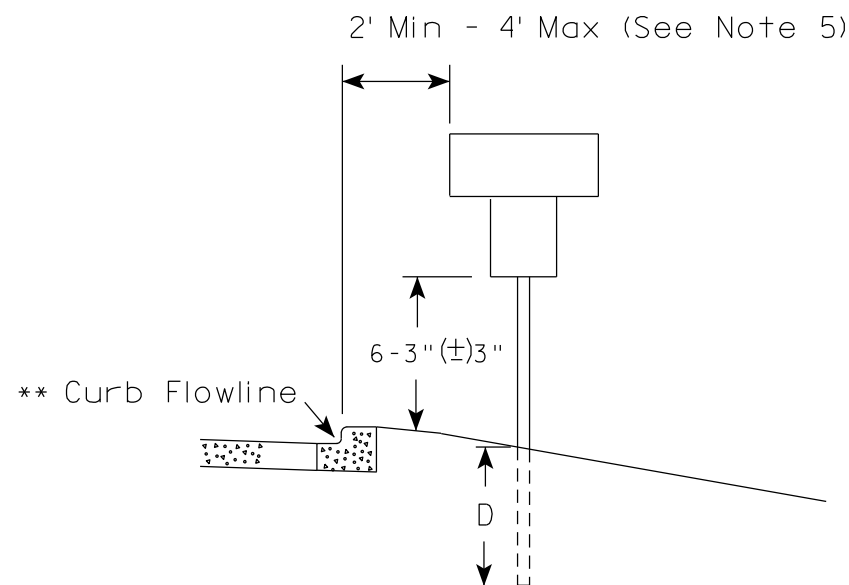
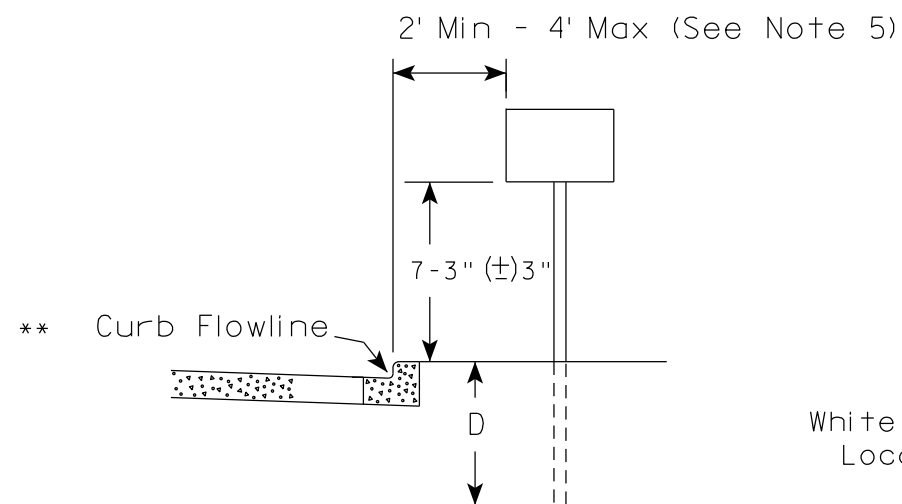
DATE 6/7/23 PLATE NO. A2-1S.10

PROJECT NO:

SHEET NO: 57

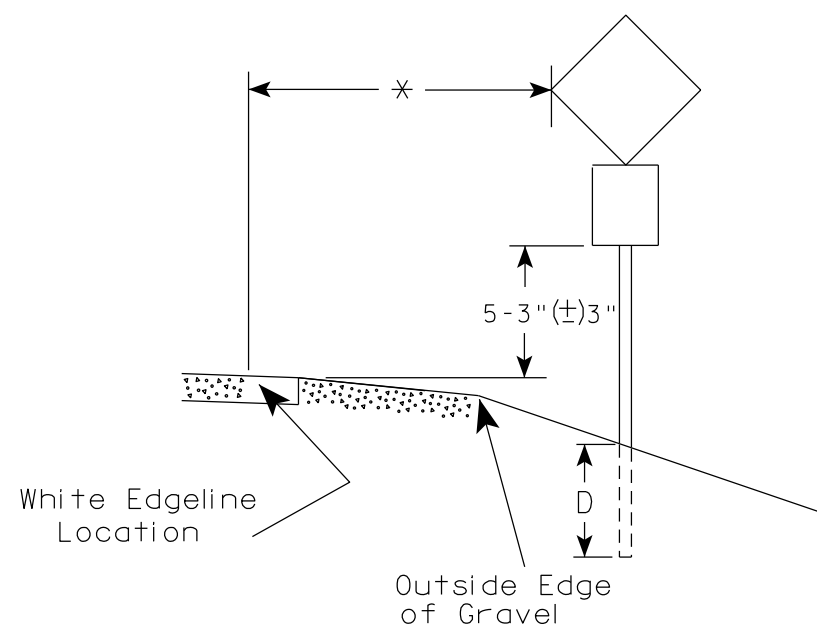
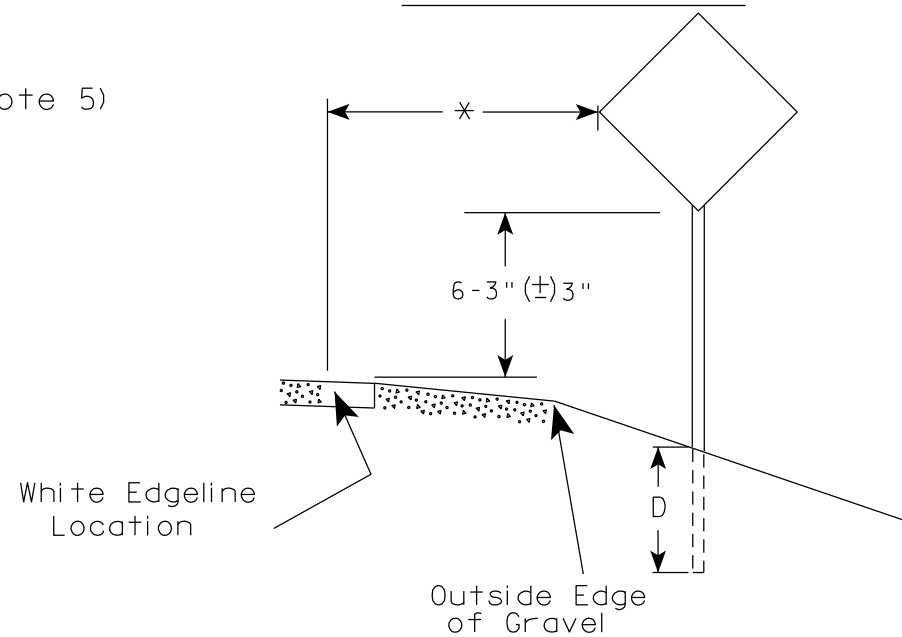
E

URBAN AREA



* * 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.

RURAL AREA (See Note 2)



* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

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

GENERAL NOTES

- Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- If signs are mounted on or behind barrier wall, see A4-10 sign plate.
The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 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" (±) 3".
- For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
- Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
- Offset distance shall be consistent with existing signs or consistent throughout length of project.
- Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the Engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 12/6/23

PLATE NO. A4-3.23

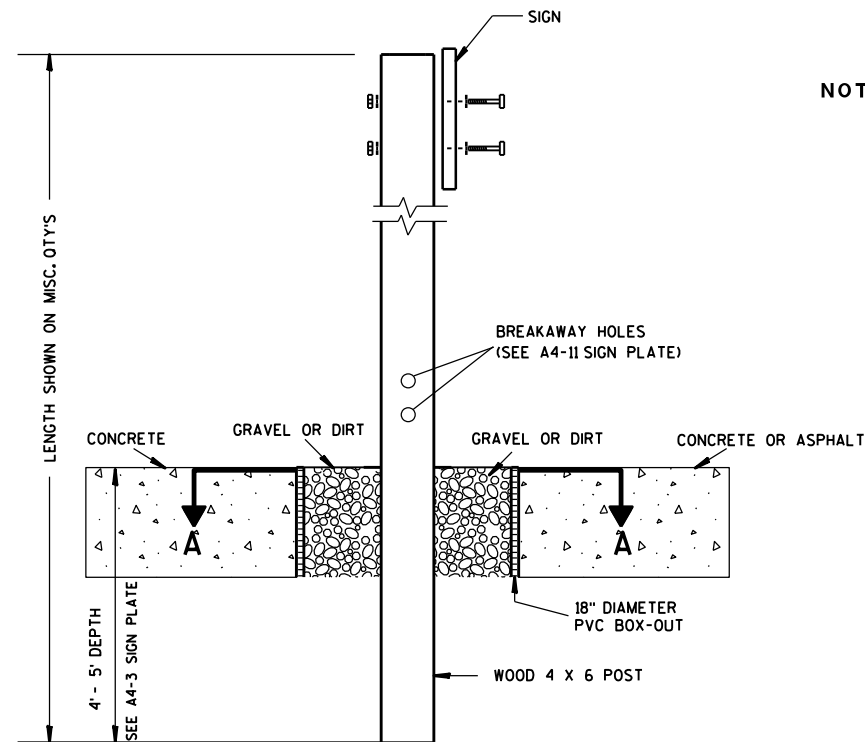
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 58

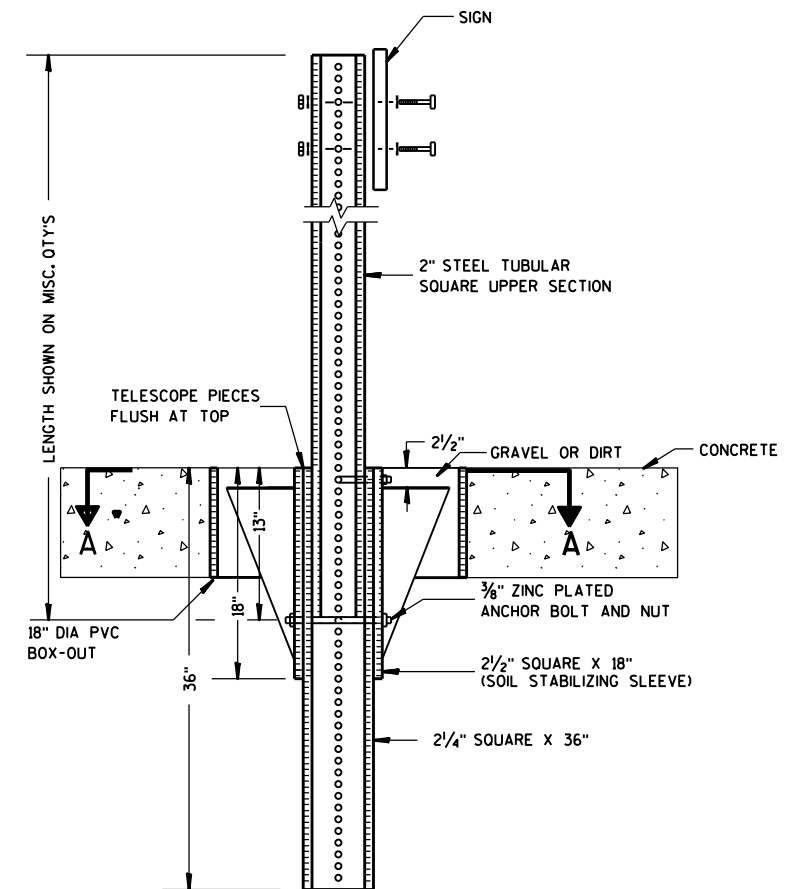
E



ELEVATION VIEW

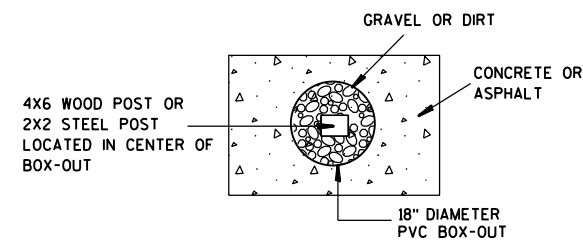
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST
BOX-OUTS
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/27/14 PLAT 59 A4-3B.1

PROJECT NO:

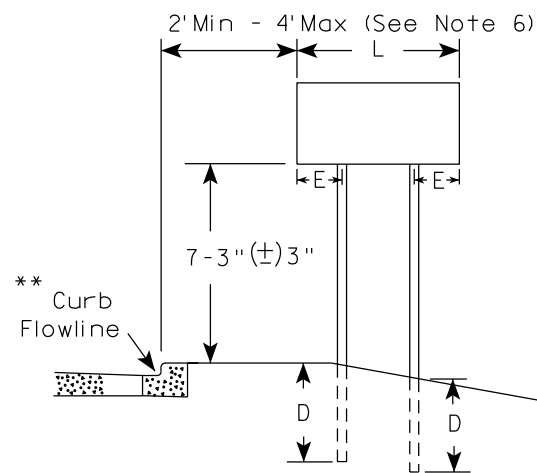
HWY:

COUNTY:

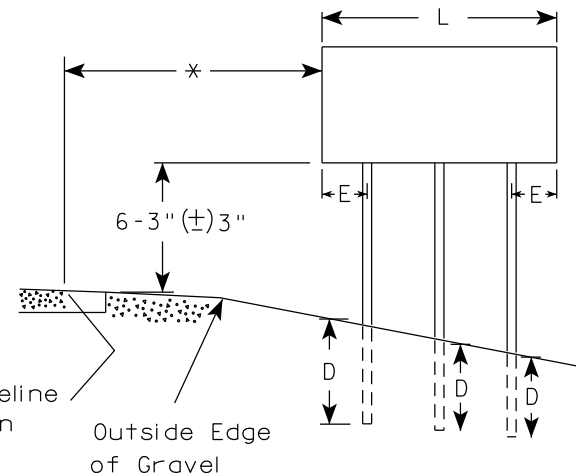
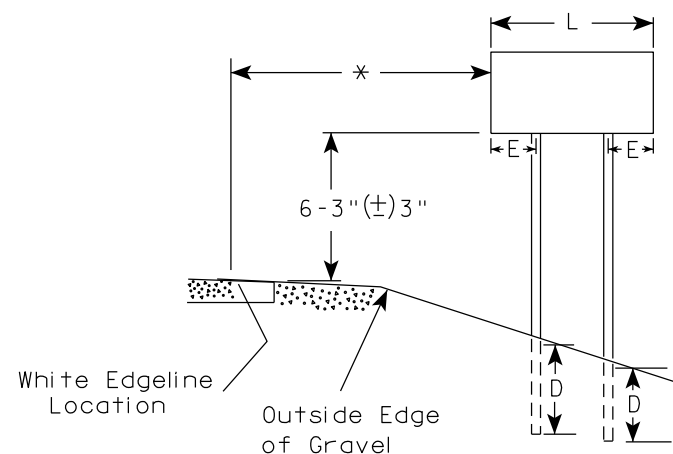
SHEET NO:

E

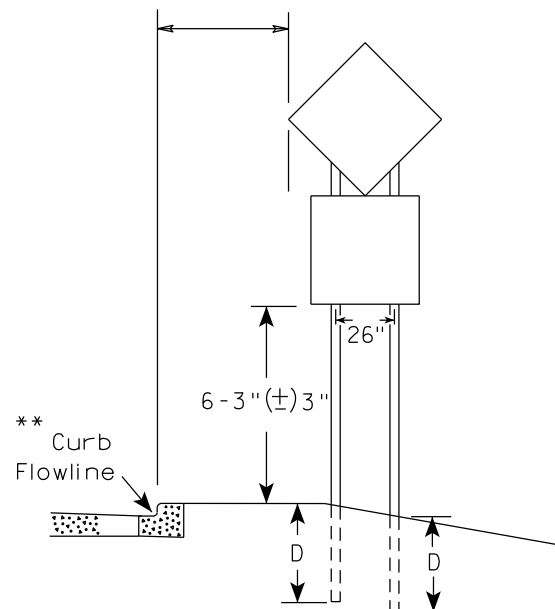
URBAN AREA



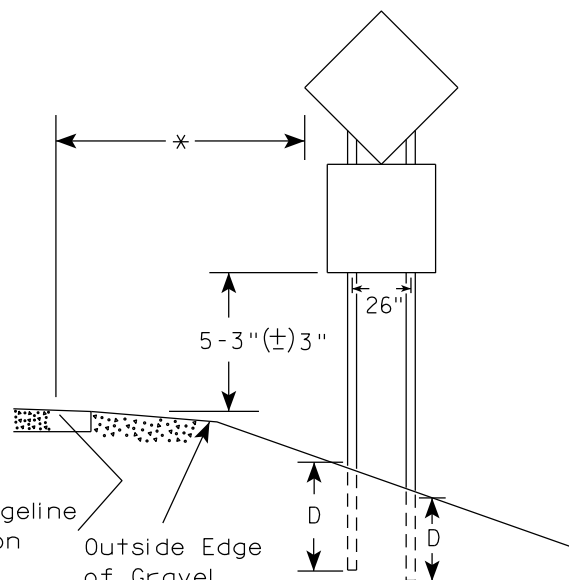
RURAL AREA (See Note 3)



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



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

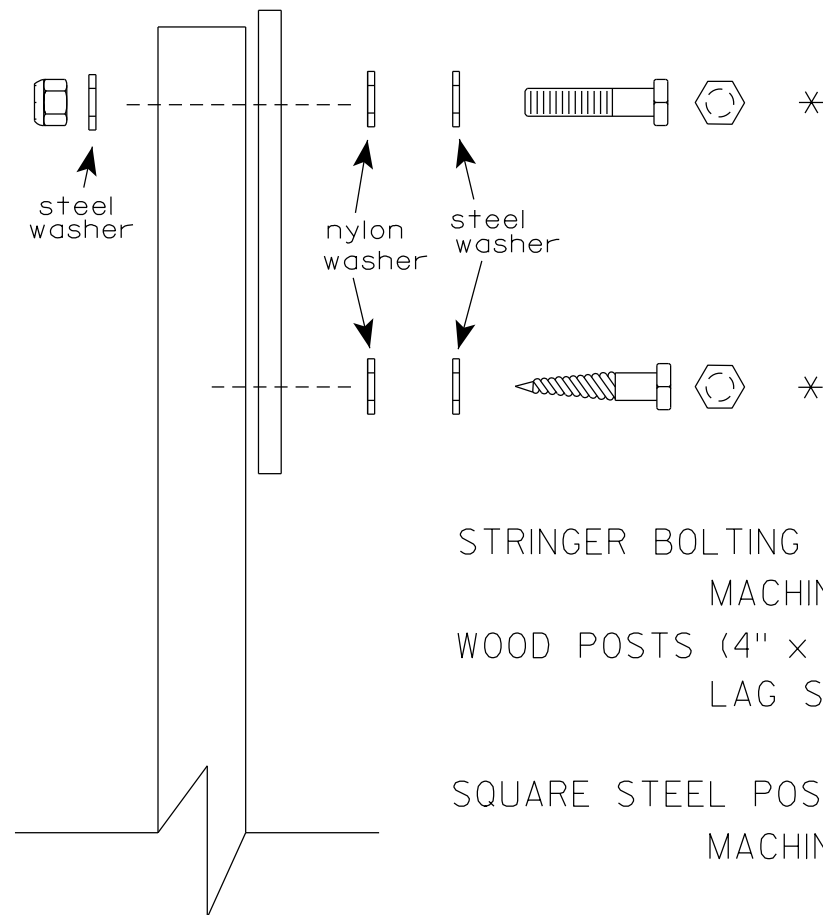
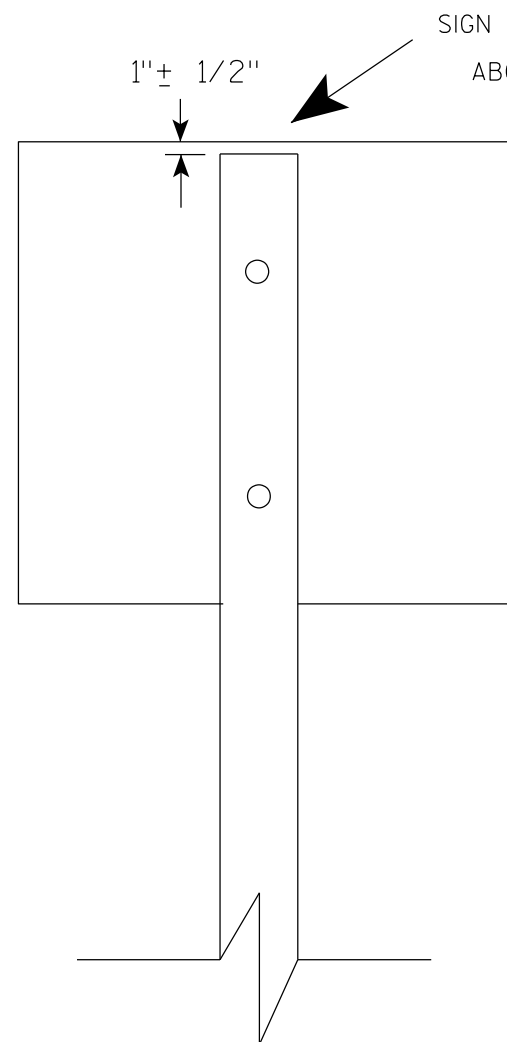
GENERAL NOTES

- For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- See tables below for required number of posts.
- For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
- The (±) tolerance for mounting height is 3 inches.
- J-Assemblies are considered to be one sign for mounting height.
- Offset distance shall be consistent with existing signs or consistent throughout length of project.
- Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the engineer.
- The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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.



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

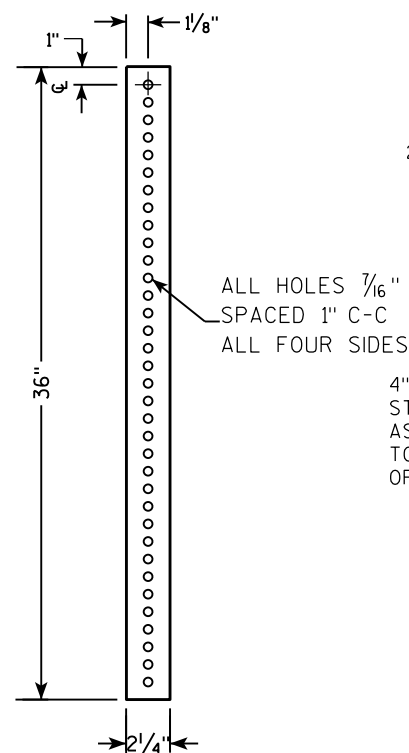
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 6")
- LAG SCREWS - $\frac{3}{8}$ " X 3" (NO STRINGERS ON BACK OF SIGN)
 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - $\frac{3}{8}$ " X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
 $\frac{3}{8}$ " X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - $\frac{9}{32}$ " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL
 - 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

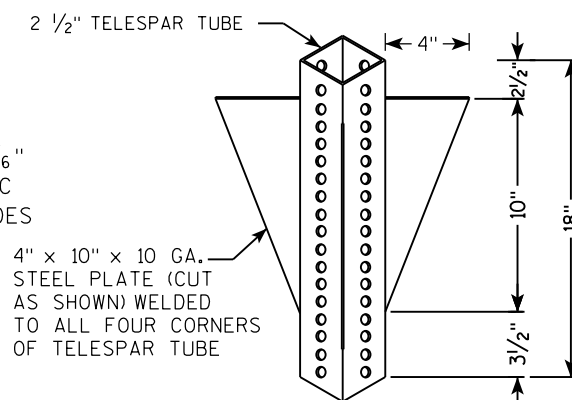
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require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

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 4/1/2020	PLATE NO. A4-8.9

**2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH**



**2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH**



TECHNICAL DRAWING OF A SIGN POST ASSEMBLY.

Side View Labels:

- SIGN
- SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL
- 2" STEEL TUBULAR SQUARE UPPER SECTION
- ALL HOLES $\frac{7}{16}$ " SPACED 1" C-C ALL FOUR SIDES
- $\frac{3}{8}$ " ZINC PLATED CORNER ANCHOR BOLT AND NUT
- 2 1/2" GRAVEL OR DIRT
- $\frac{3}{8}$ " ZINC PLATED ANCHOR BOLT AND NUT
- 2 1/2" SQUARE X 18" (SOIL STABILIZING SLEEVE)
- 2 1/4" SQUARE X 36"

Cross Section Labels:

- TELESCOPE PIECES FLUSH AT TOP
- 13"
- 18"
- 36"
- 18" DIA SCHEDULE 40 PVC BOX-OUT

Vertical Dimension:

- LENGTH SHOWN ON MISC. QTY'S

TECHNICAL DRAWING OF A SIGNPOST ASSEMBLY.

Side View Dimensions:

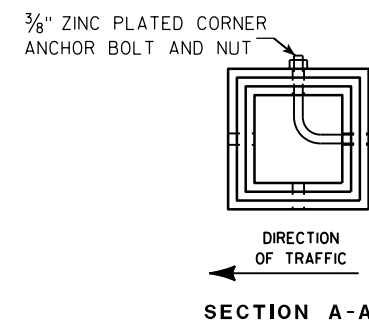
- Overall height: 36"
- Section A: 18"
- Section B: 12"

End View Dimensions:

- Overall width: 2 1/4" SQUARE X 36"
- Section A: 18"
- Section B: 12"

Material and Assembly Specifications:

- 2" STEEL TUBULAR SQUARE UPPER SECTION
- ALL HOLES 7/16" SPACED 1" C-C ALL FOUR SIDES
- 3/8" ZINC PLATED CORNER ANCHOR BOLT AND NUT
- 3/8" ZINC PLATED ANCHOR BOLT AND NUT
- 2 1/2" SQUARE X 18" (SOIL STABILIZING SLEEVE)
- SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL
- TELESCOPE PIECES FLUSH AT TOP
- SIGN



Area of Sign Installation (Sq. Ft.)	Number of Required 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 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R. Rauch

for State Traffic Engineer

DATE 2/05/15 PLATI 62 14-9.9

SHEET NO:	E
-----------	---

PROJECT NO:

HWY:

COUNTY:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

PLOT DATE : 05-FEB-2015 17:09

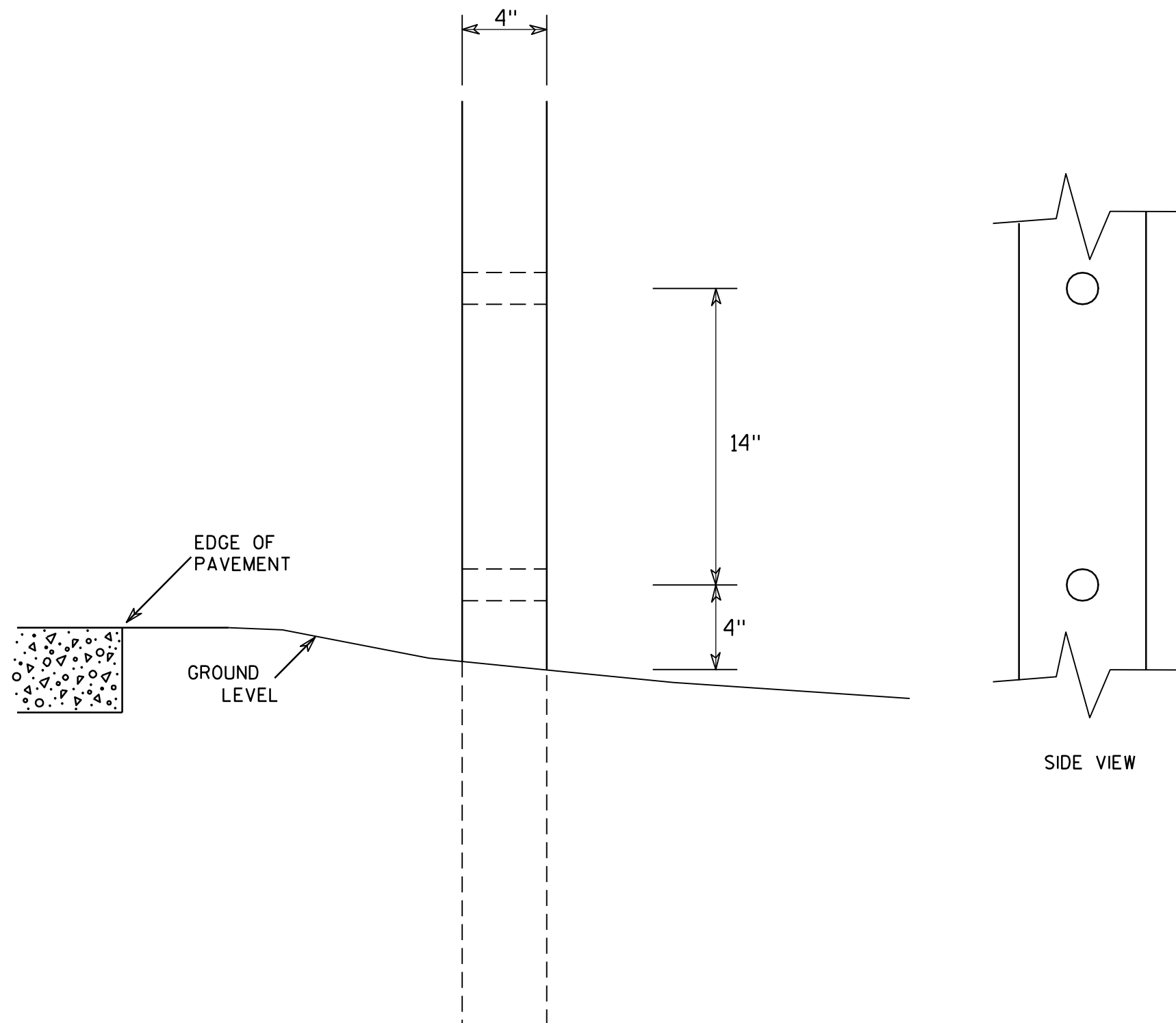
PLOT BY : mscs_ja

PLOT NAME :

PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42

7



GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

HWY:

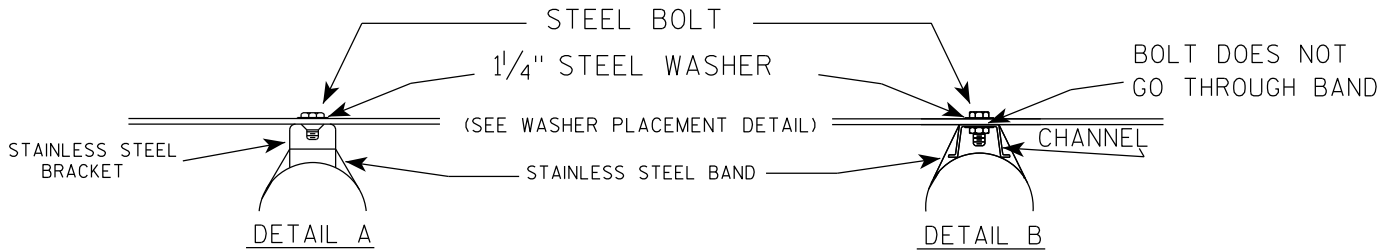
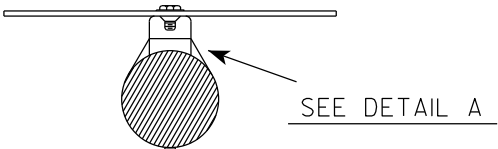
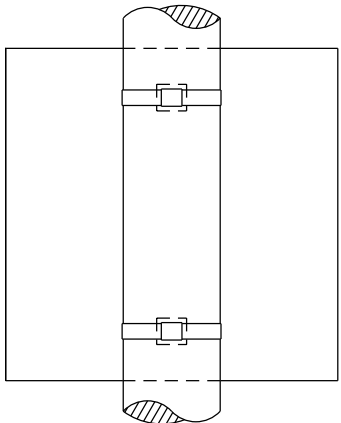
COUNTY:

SHEET NO: 63

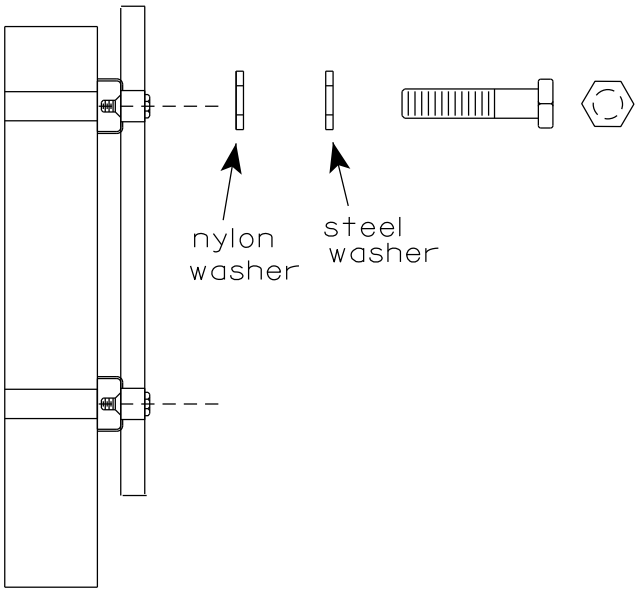
E

BANDING

SINGLE SIGN



WASHER PLACEMENT

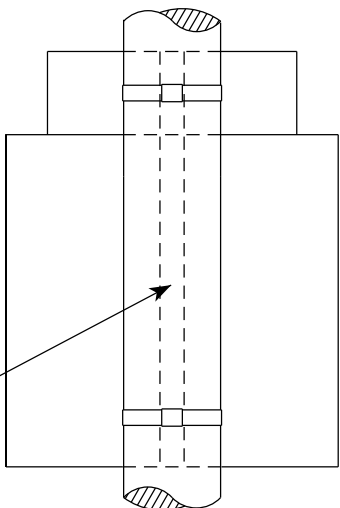


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

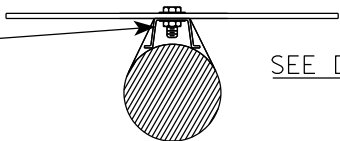
GENERAL NOTES

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 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



CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/10/19 PLATE NO. A5-9.4

VIEW FROM
BACK

7

PROJECT NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

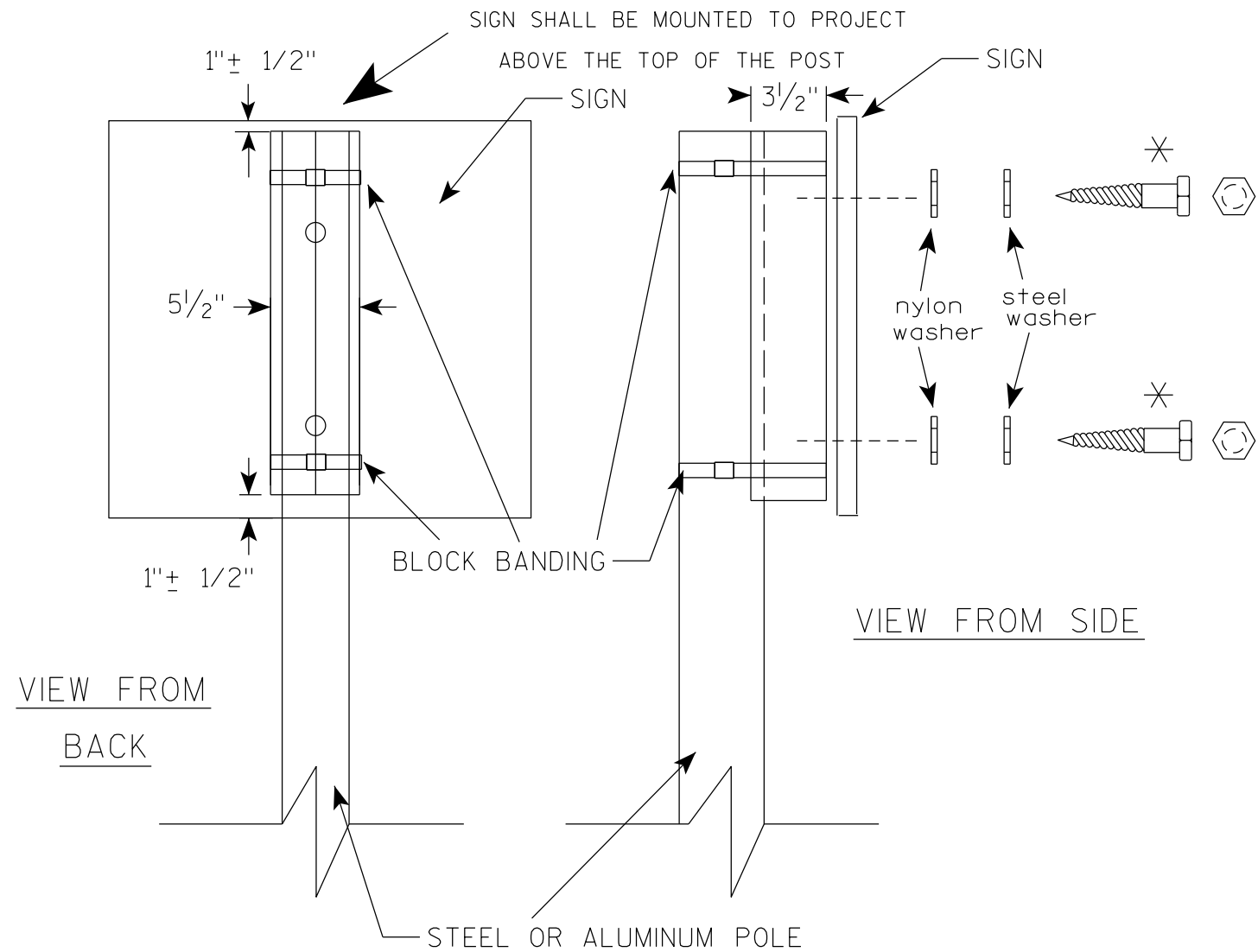
PLOT DATE : 19-APRIL 2022 11:55

PLOT BY : dotc4c

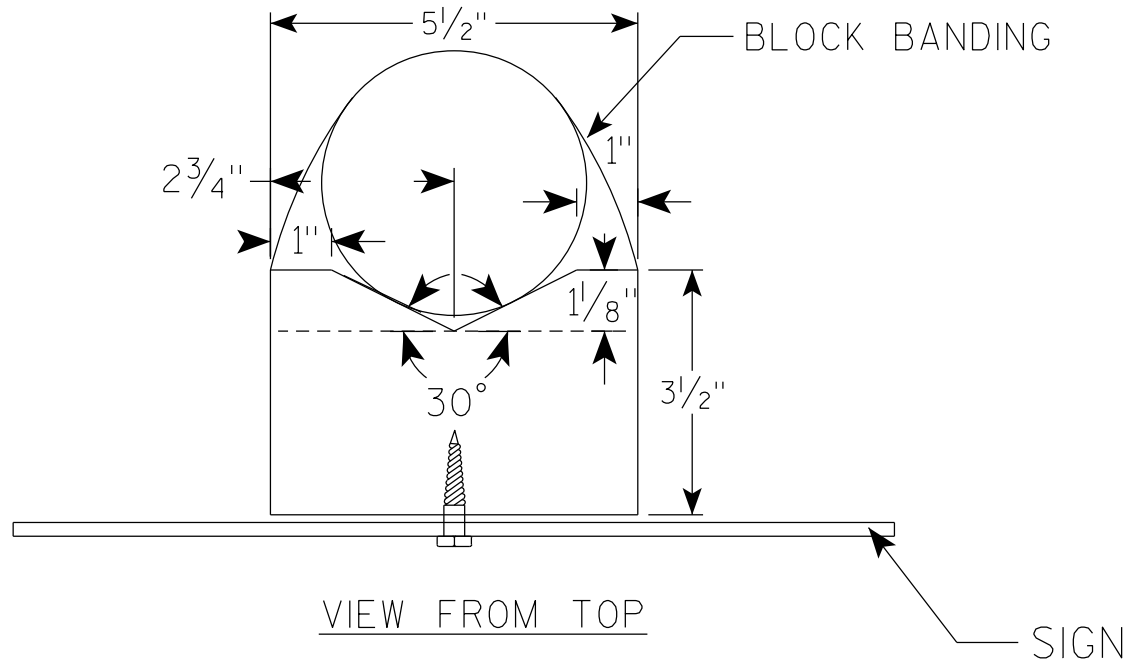
SHEET NO: 65

E

WISDOT/CADDs SHEET 42



VIEW FROM SIDE



VIEW FROM TOP

SIGN

GENERAL NOTES

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

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

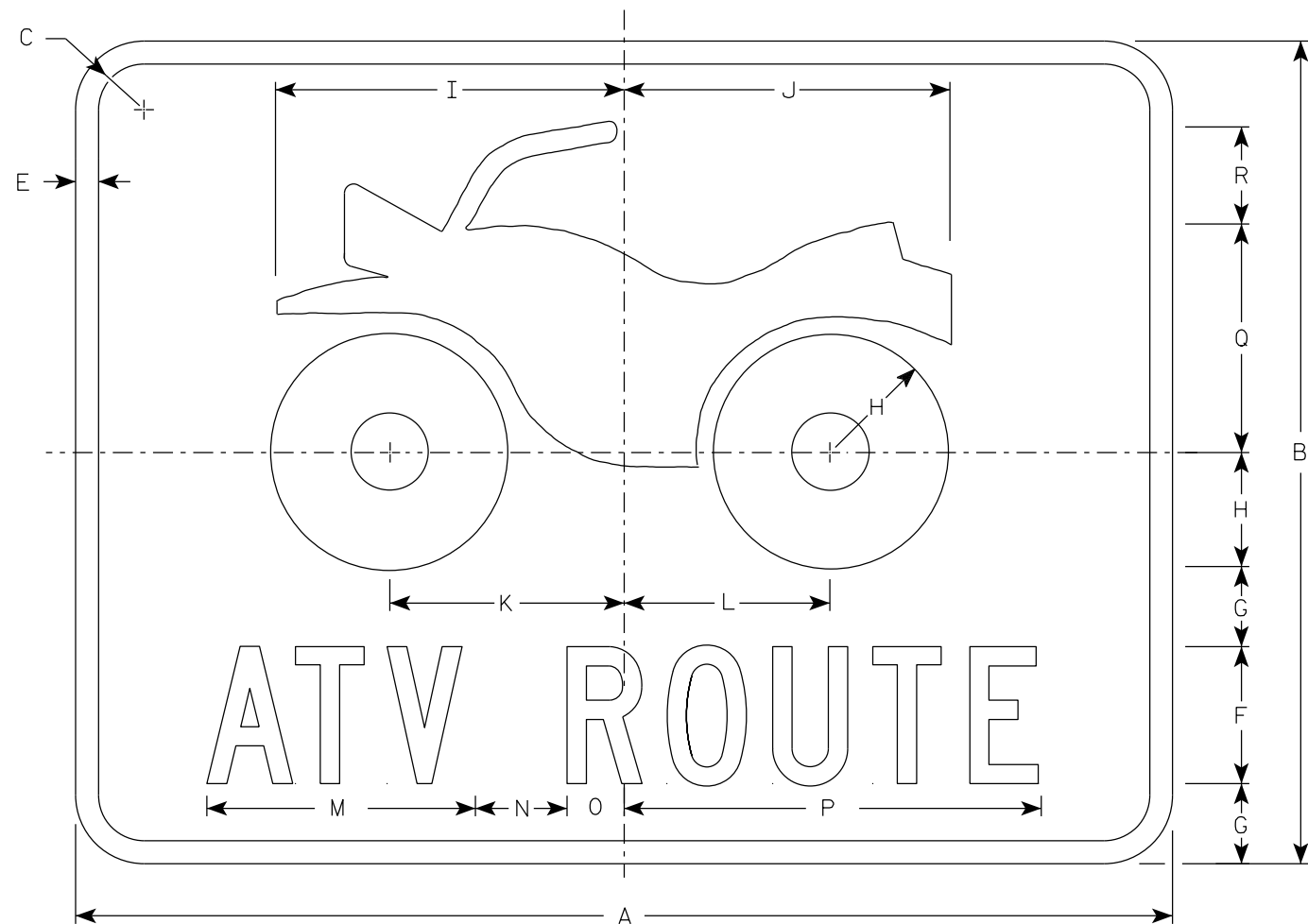
BLOCK BANDING DETAIL
(V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

7



D11-10

NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
Background - Green
Message - White
- 3. Message Series - C

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	18	1 1/2		1/2	3	1 3/4	2 1/2	7 5/8	7 1/8	5 1/8	5 1/2	5 7/8	2	1 1/4	9 1/8	5	2 1/8									3.0
2M	24	18	1 1/2		1/2	3	1 3/4	2 1/2	7 5/8	7 1/8	5 1/8	5 1/2	5 7/8	2	1 1/4	9 1/8	5	2 1/8									3.0
3																											
4																											
5																											

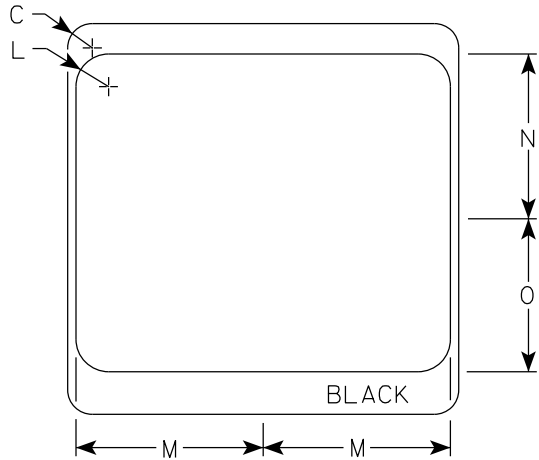
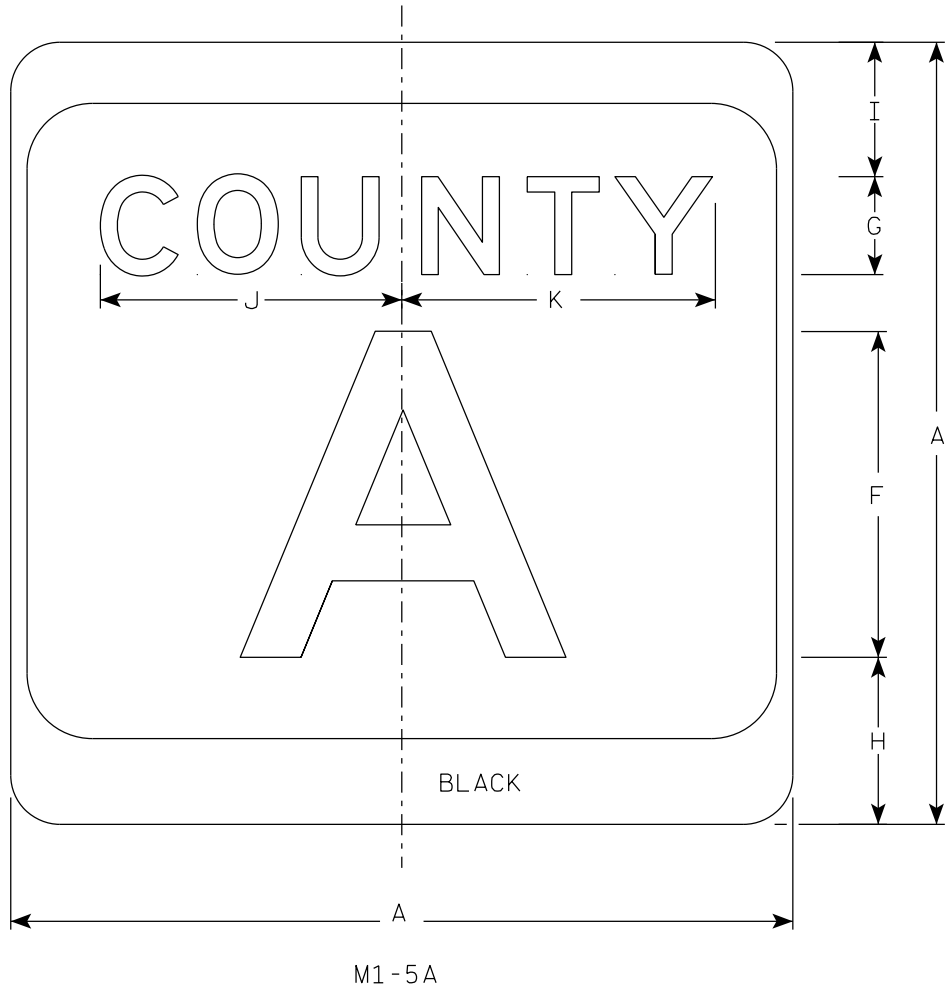
STANDARD SIGN
D11-10

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew P. Rauch*
for State Traffic Engineer

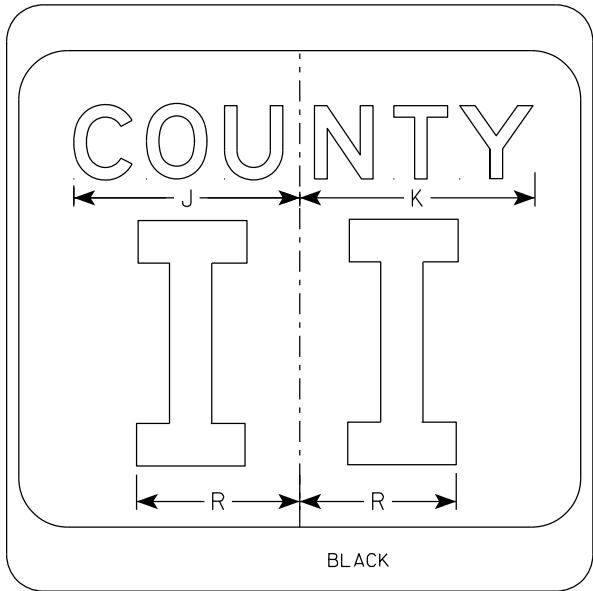
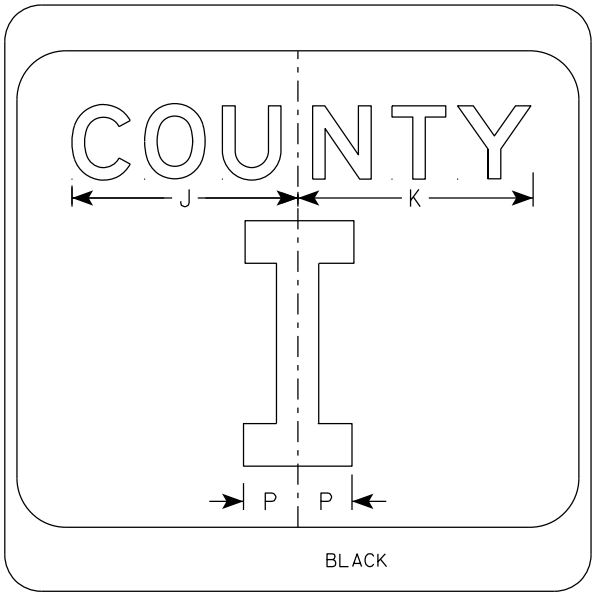
DATE 1/25/2023 PLATE NO. D11-10.6

7



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White & Black
Message - Black
3. Message Series - see Note 4
4. Message Series E for 1 letter.
Message Series D for 2 letters unless
message is too big then Series C.
Message Series C for 3 letters unless
message is too big then Series B.
5. Substitute appropriate letters & optically
center to achieve proper balance.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
2M	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER
M1-5A FOR ASSEMBLIES

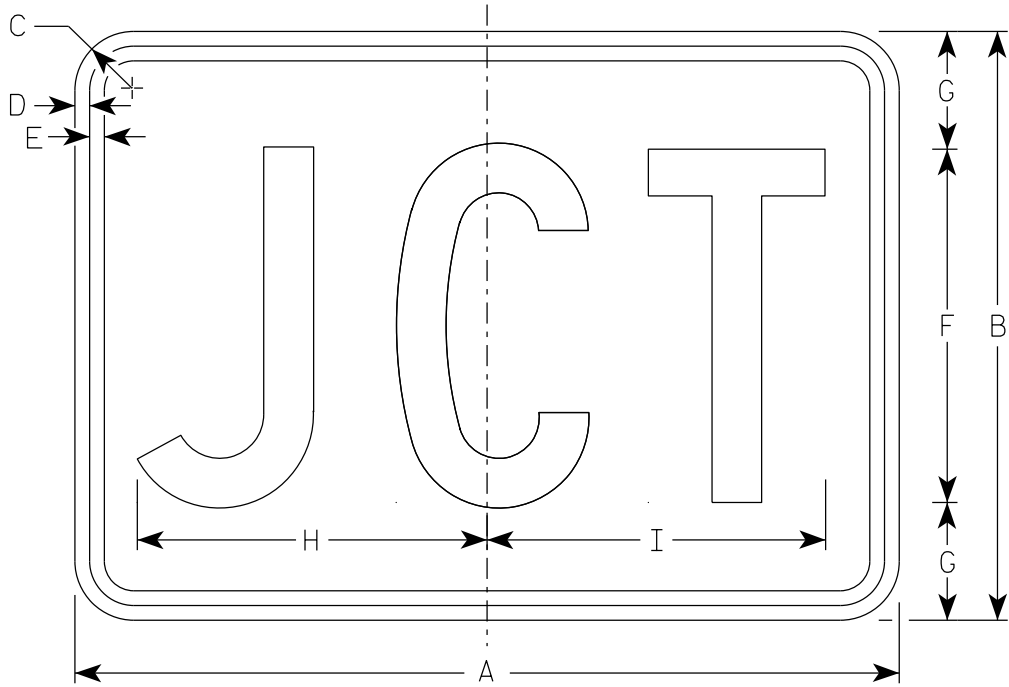
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

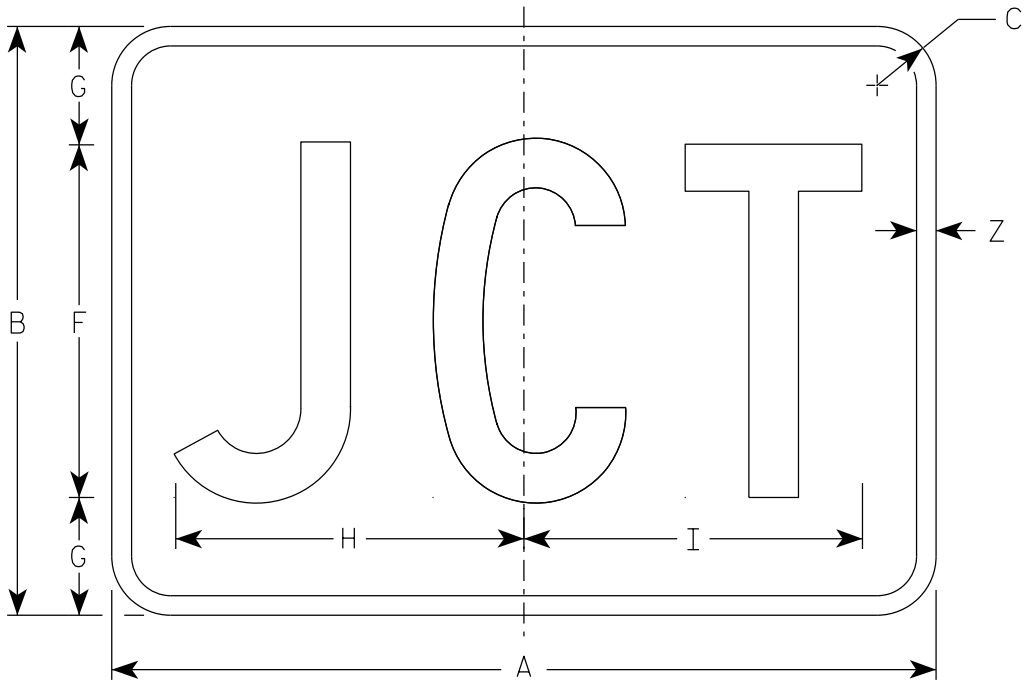
DATE 11/8/2022 PLATE NO. M1-5A.9

7

7



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
 - Background - See note 5
 - Message - See note 5
- 3. Message Series - C
- 4. M2-1 Background - White
Message - Black
- MB2-1 Background - Blue
Message - White
- MK2-1 Background - Green
Message - White
- MM2-1 Background - White
Message - Green
- MN2-1 Background - Brown
Message - White
- MP2-1 Background - White
Message - Blue
- MR2-1 Background - Brown
Message - Yellow

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21	15	1 1/2	3/8	3/8	9	3	8 7/8	8 5/8																	1/2	2.20
2M	21	15	1 1/2	3/8	3/8	9	3	8 7/8	8 5/8																	1/2	2.20
3	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40
4	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40
5	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 68

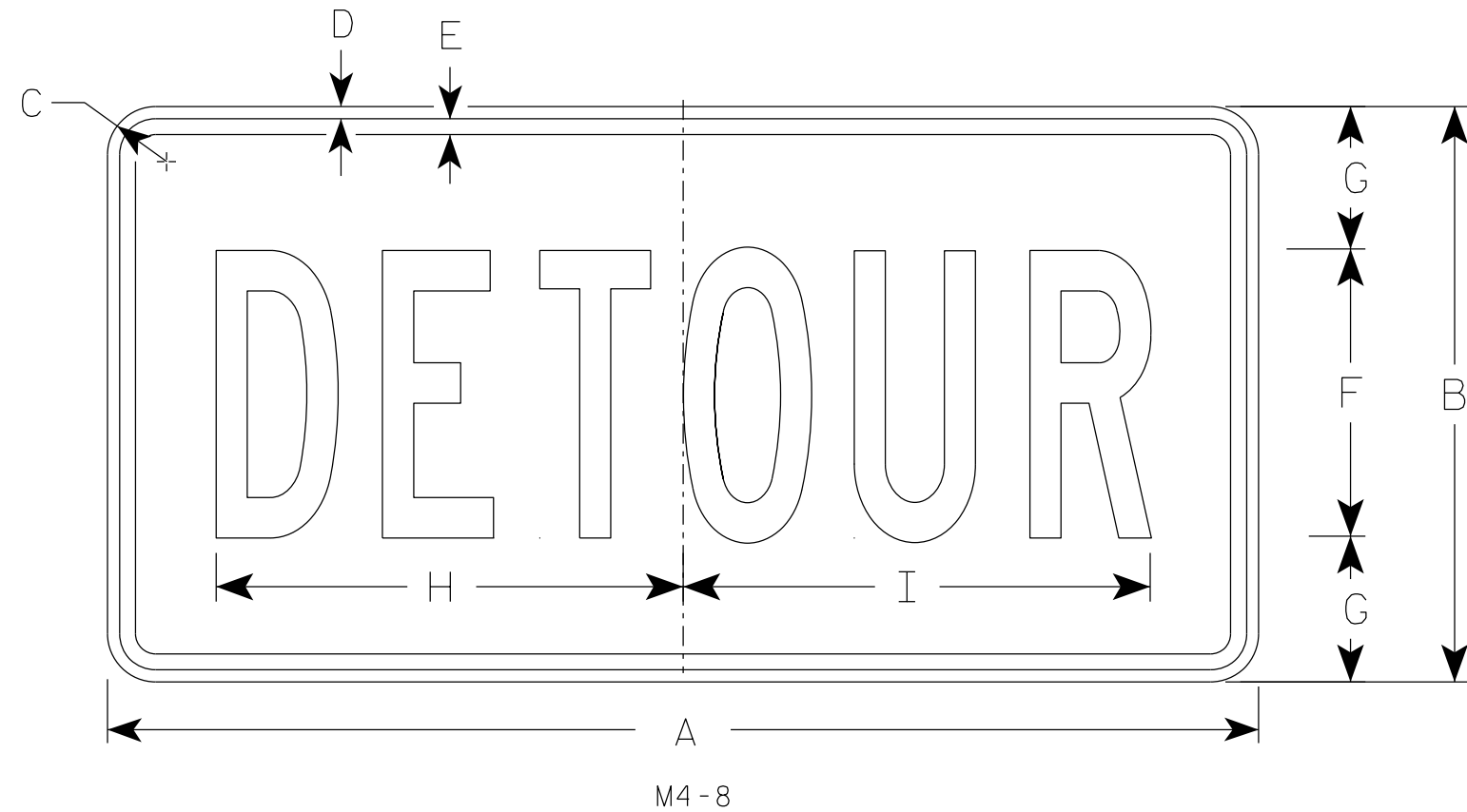
E

7

7

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	v	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

STANDARD SIGN

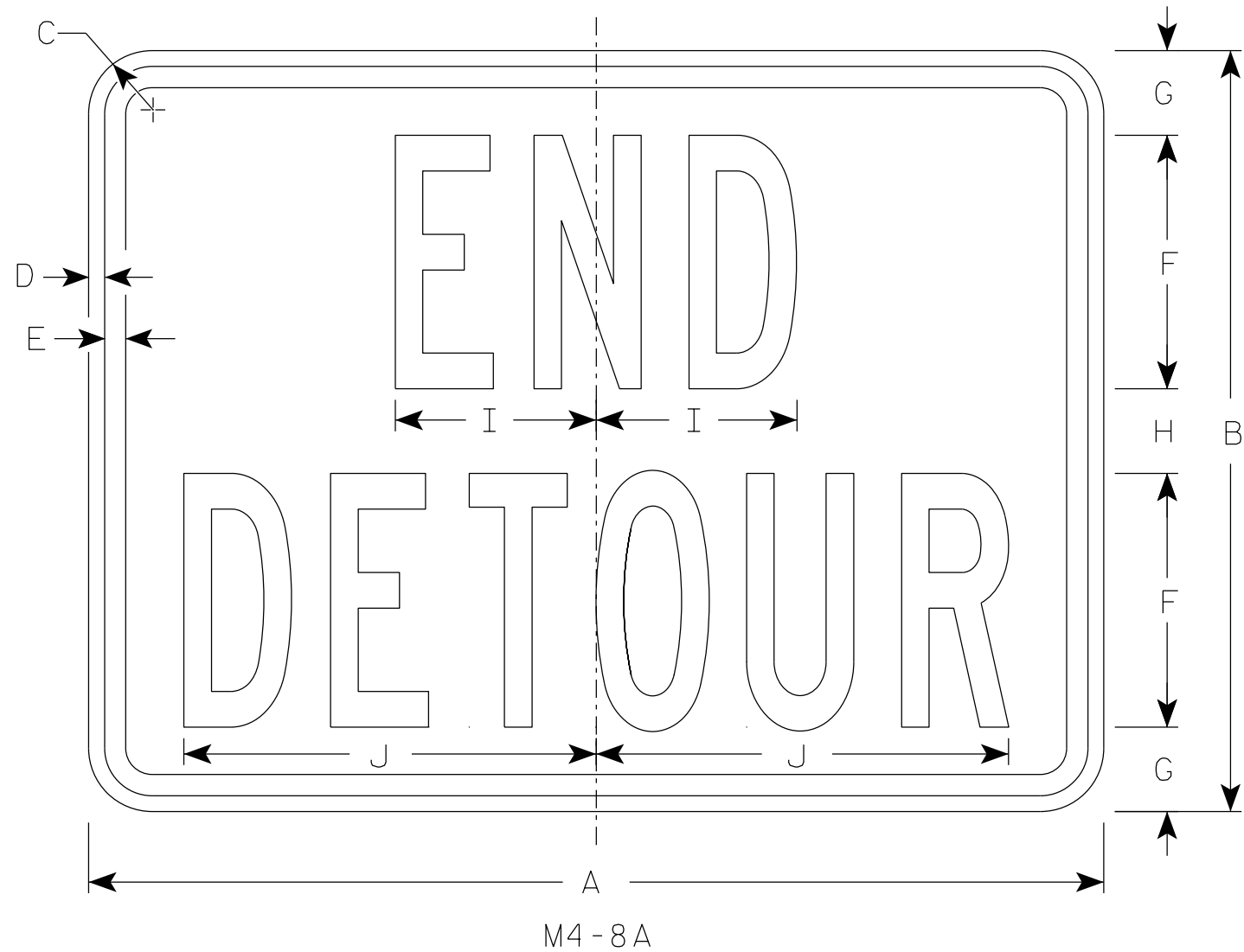
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

7



NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
 - Background - Orange
 - Message - Black
- 3. Message Series - B
- 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.

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
2M	24	18	1 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
5	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0

STANDARD SIGN

M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*
For State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

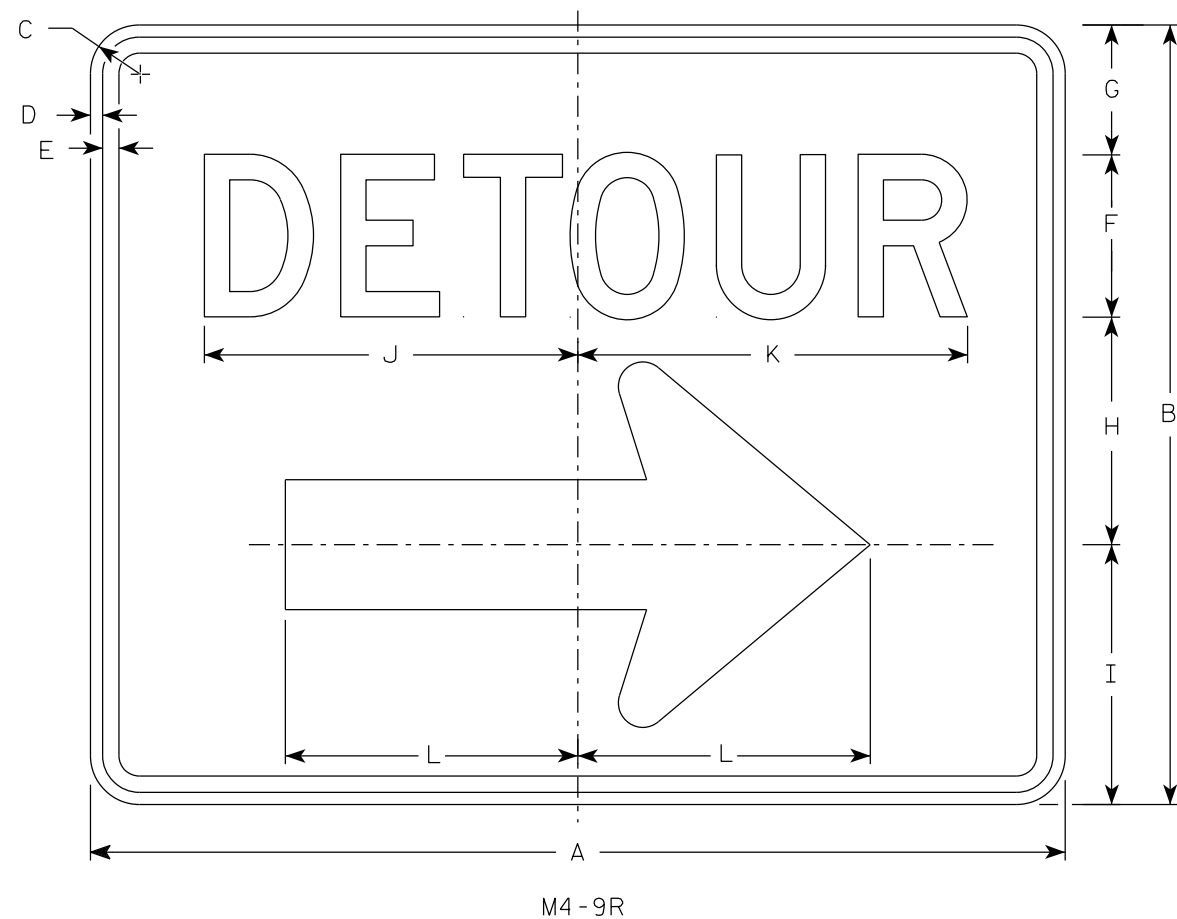
PROJECT NO:

HWY:

COUNTY:

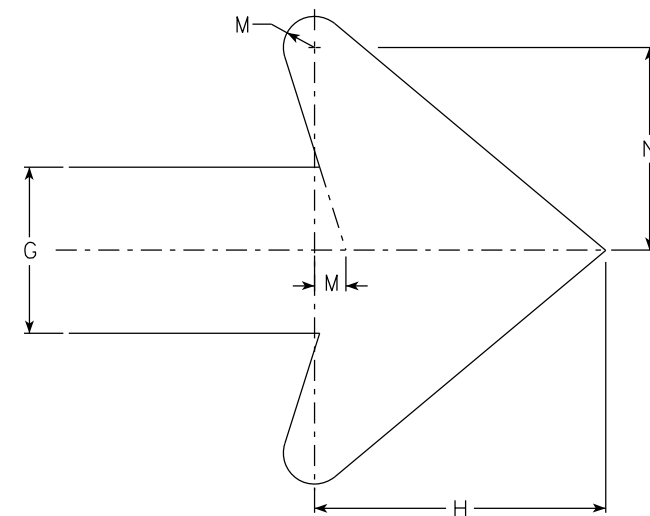
SHEET NO: 70

E



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-9R.6

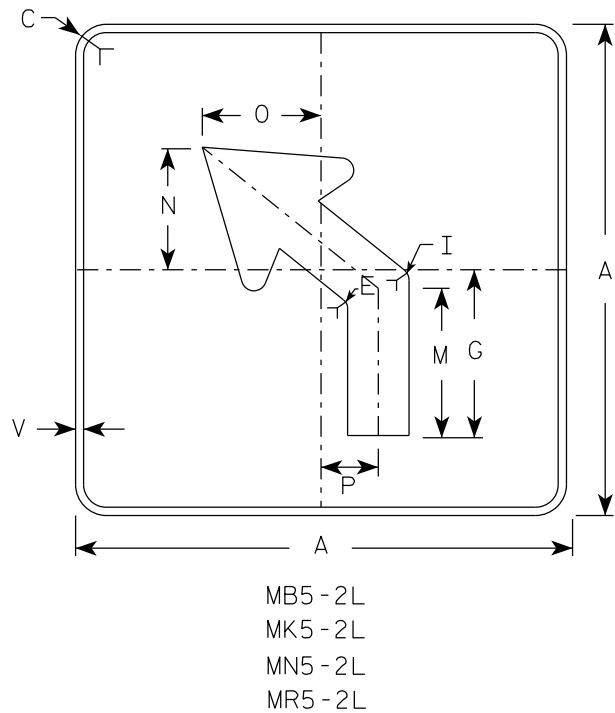
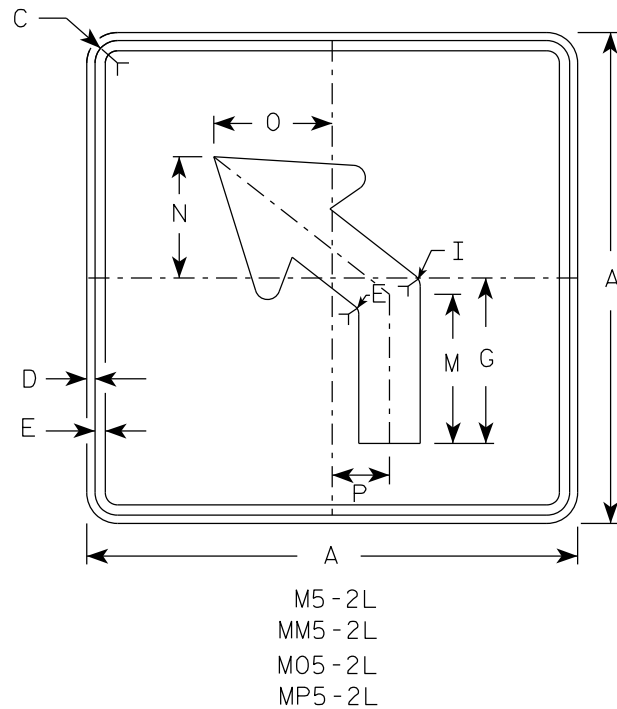
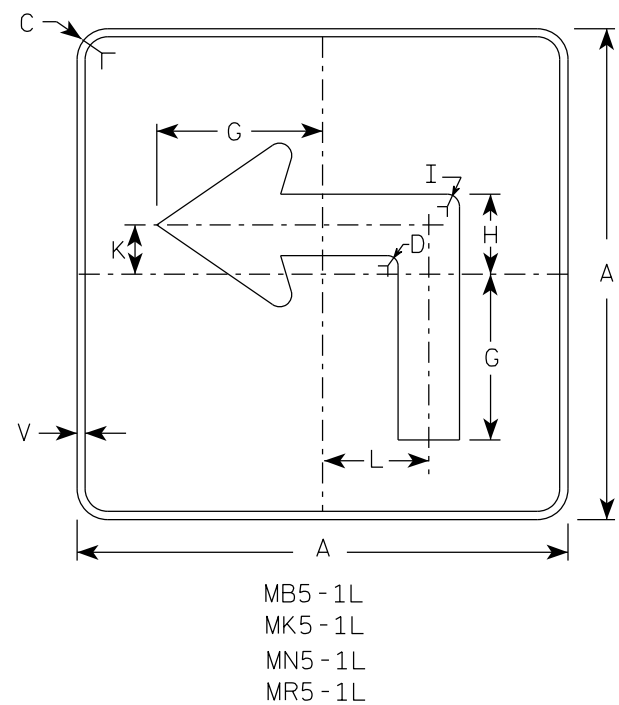
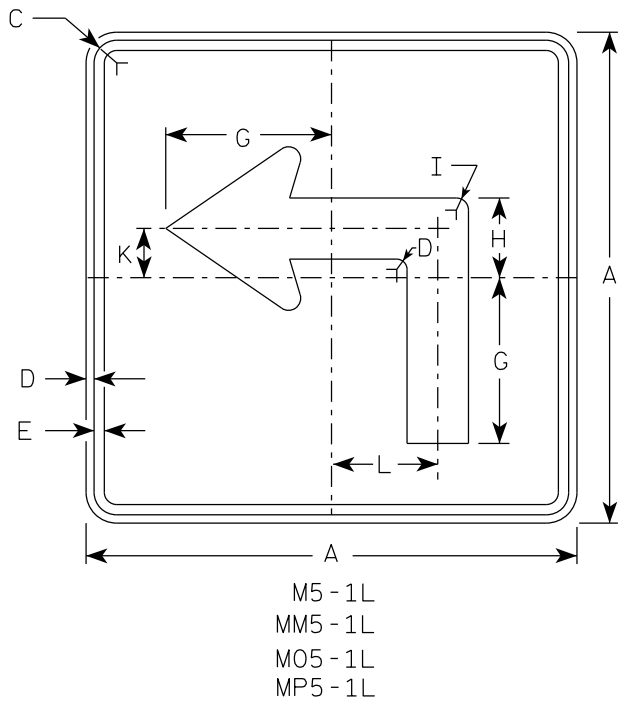
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

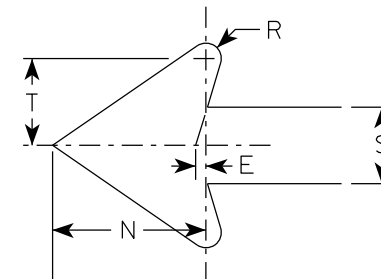
E



NOTES

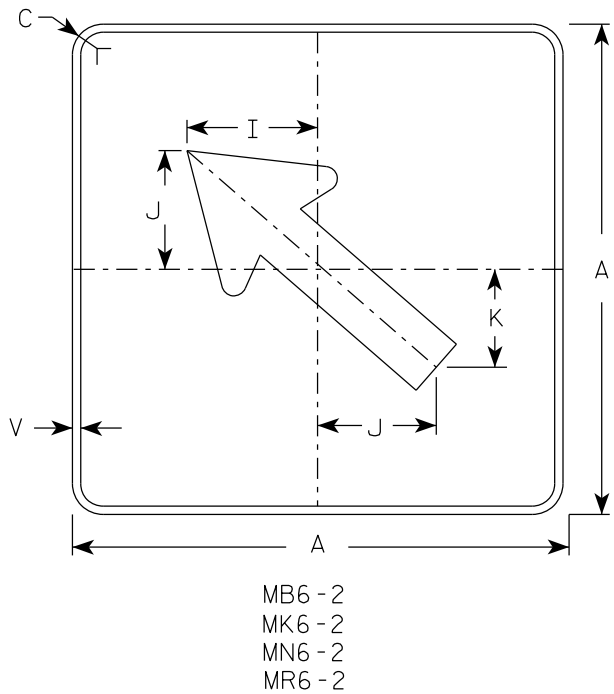
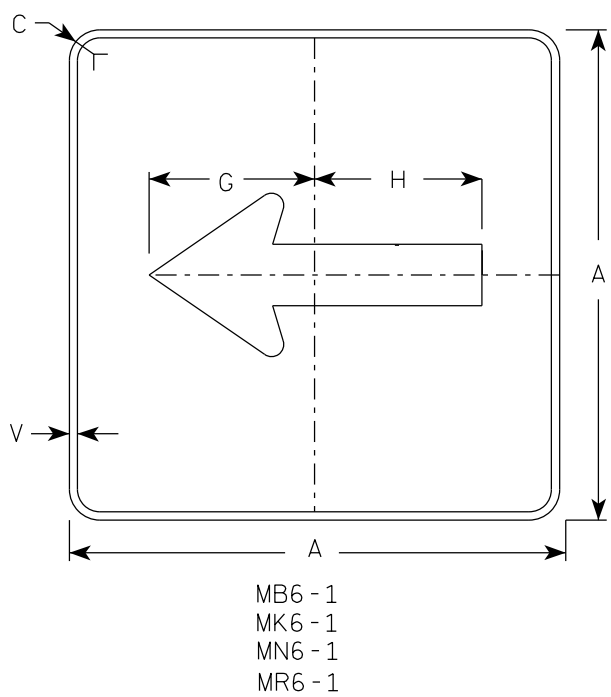
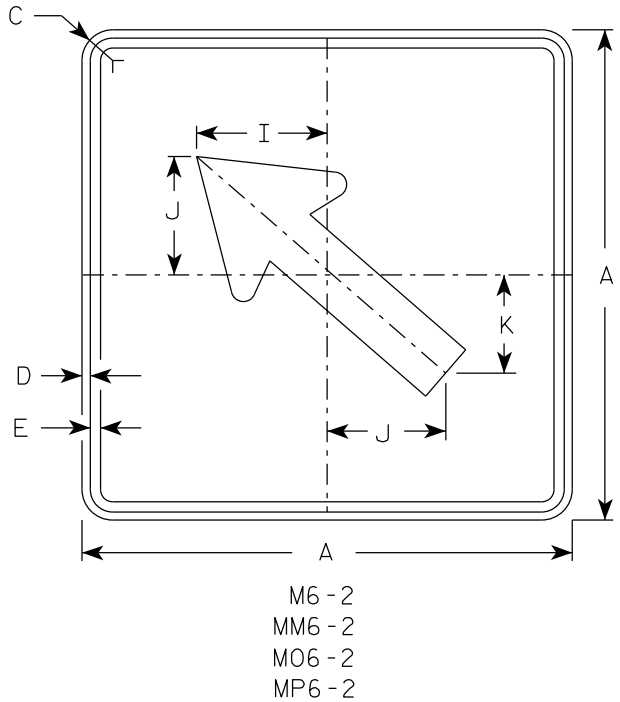
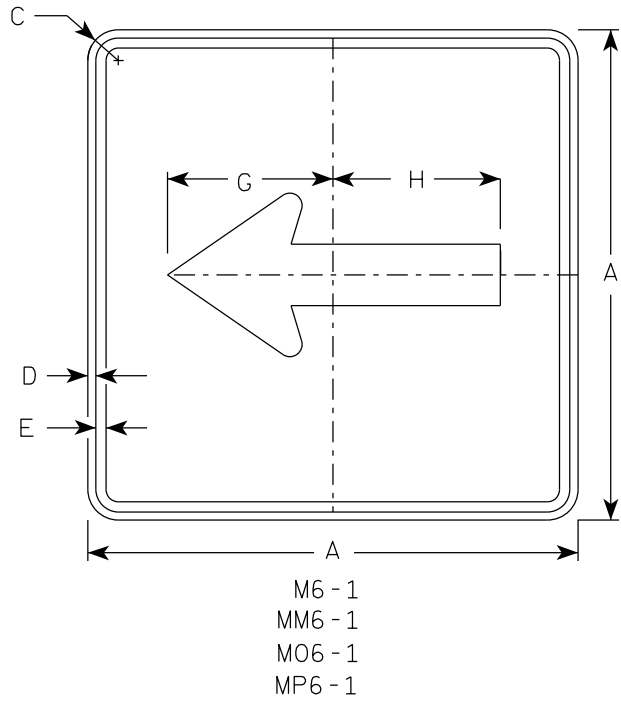
- Signs are Type II - Type H reflective except as shown
- Color:
Background - See note 4
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- | | | |
|-----------|-------|---|
| M5-1 and | M5-2 | Background - White |
| | | Message - Black |
| MB5-1 and | MB5-2 | Background - Blue |
| | | Message - White |
| MK5-1 and | MK5-2 | Background - Green |
| | | Message - White |
| MM5-1 and | MM5-2 | Background - White |
| | | Message - Green |
| MN5-1 and | MN5-2 | Background - Brown |
| | | Message - White |
| M05-1 and | M05-2 | Background - Orange - Type F Reflective |
| | | Message - Black |
| MP5-1 and | MP5-2 | Background - White |
| | | Message - Blue |
| MR5-1 and | MR5-2 | Background - Brown |
| | | Message - Yellow |
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

ARROW DETAIL

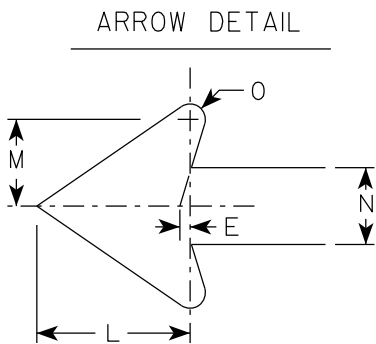


SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
3	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
4	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
5	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25

PROJECT NO:		HWY:		COUNTY:		SHEET NO: 72		E
-------------	--	------	--	---------	--	--------------	--	---



- NOTES
- Signs are Type II - Type H Reflective except as Shown
 - Color:
Background - See note 4
Message - See note 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.
 - M6-1 and M6-2 Background - White
Message - Black
MB6-1 and MB6-2 Background - Blue
Message - White
MK6-1 and MK6-2 Background - Green
Message - White
MM6-1 and MM6-2 Background - White
Message - Green
MN6-1 and MN6-2 Background - Brown
Message - White
M06-1 and M06-2 Background - Orange - Type F Reflective
Message - Black
MP6-1 and MP6-2 Background - White
Message - Blue
MR6-1 and MR6-2 Background - Brown
Message - Yellow



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	
1																												
2S	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2						3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2						3.06
3	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2						6.25
4	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2						6.25
5	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2						6.25

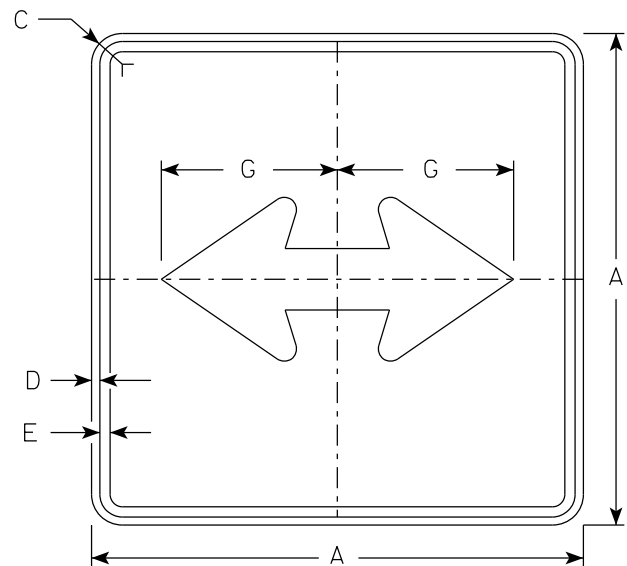
STANDARD SIGN
M6 - 1 & M6 - 2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

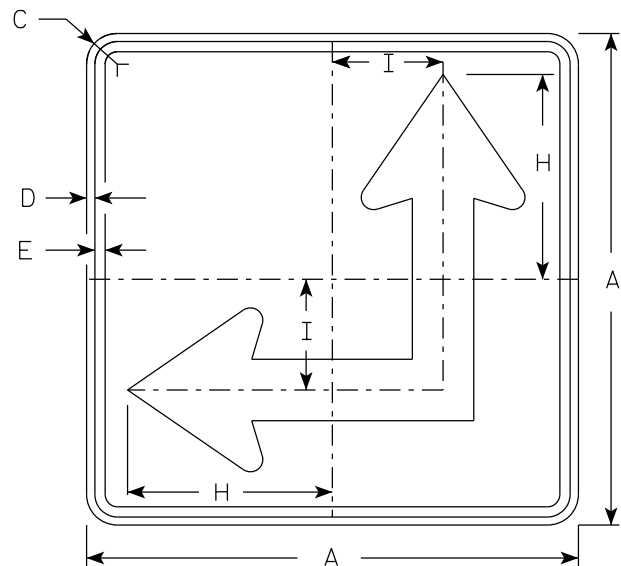
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

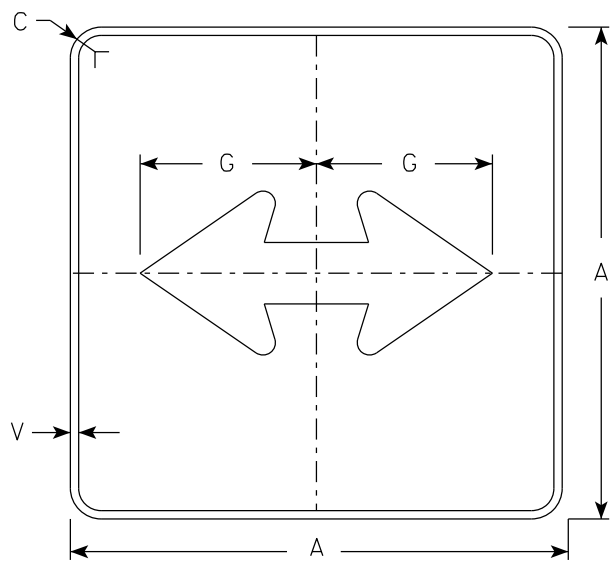
7



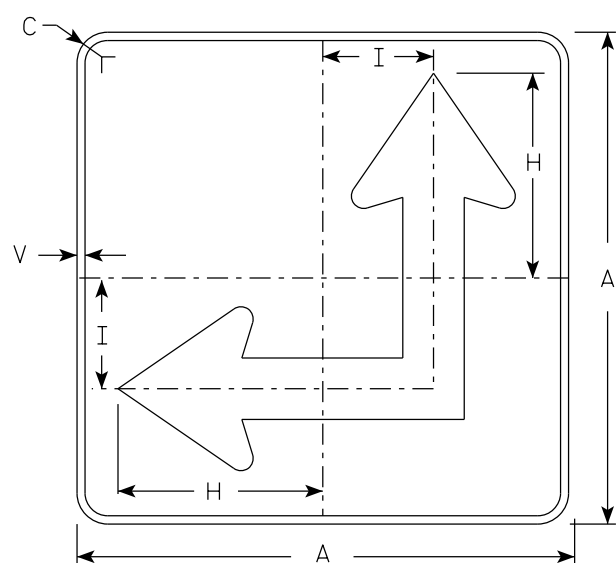
M6 - 4
MM6 - 4
M06 - 4
MP6 - 4



M6 - 6
MM6 - 6
M06 - 6
MP6 - 6



MB6 - 4
MK6 - 4
MN6 - 4
MR6 - 4

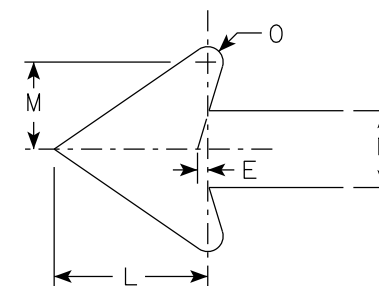


MB6 - 6
MK6 - 6
MN6 - 6
MR6 - 6

NOTES

- Signs are Type II - Type H Reflective except as Shown
- Color:
Background - See Note 4
Message - See Note 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.
- M6-4 and M6-6 Background - White
Message - Black
MB6-4 and MB6-6 Background - Blue
Message - White
MK6-4 and MK6-6 Background - Green
Message - White
MM6-4 and MM6-6 Background - White
Message - Green
MN6-4 and MN6-6 Background - Brown
Message - White
M06-4 and M06-6 Background - Orange - Type F Reflective
Message - Black
MP6-4 and MP6-6 Background - White
Message - Blue
MR6-4 and MR6-6 Background - Brown
Message - Yellow
- M6-6R same as M6-6L except arrow points ahead and right.

ARROW DETAIL

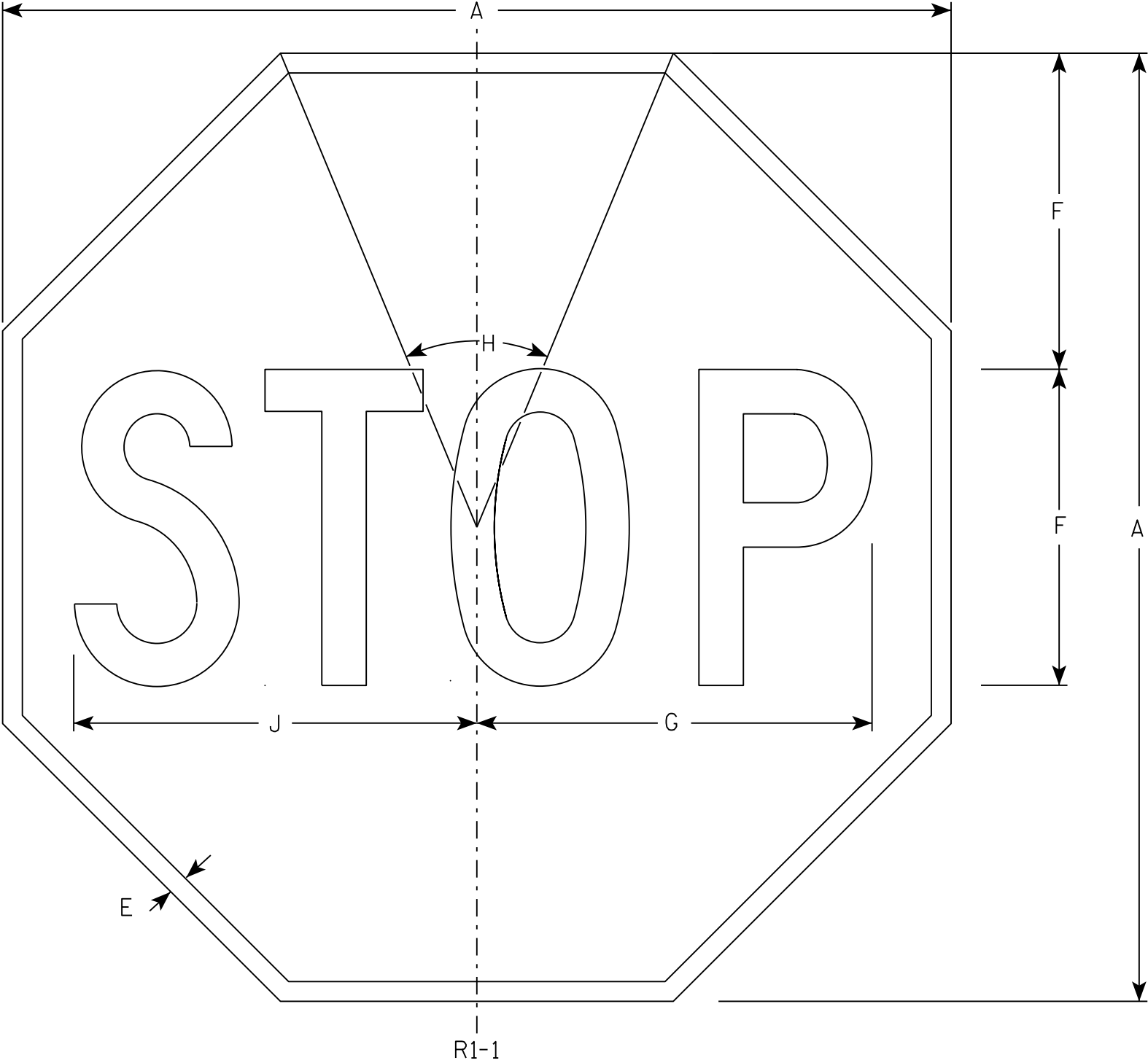


SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	v	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 74												E
-------------	------	---------	--------------	--	--	--	--	--	--	--	--	--	--	--	---

7

7



NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Red
Message - White
- 3. Message Series - C

7

R1-1

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN

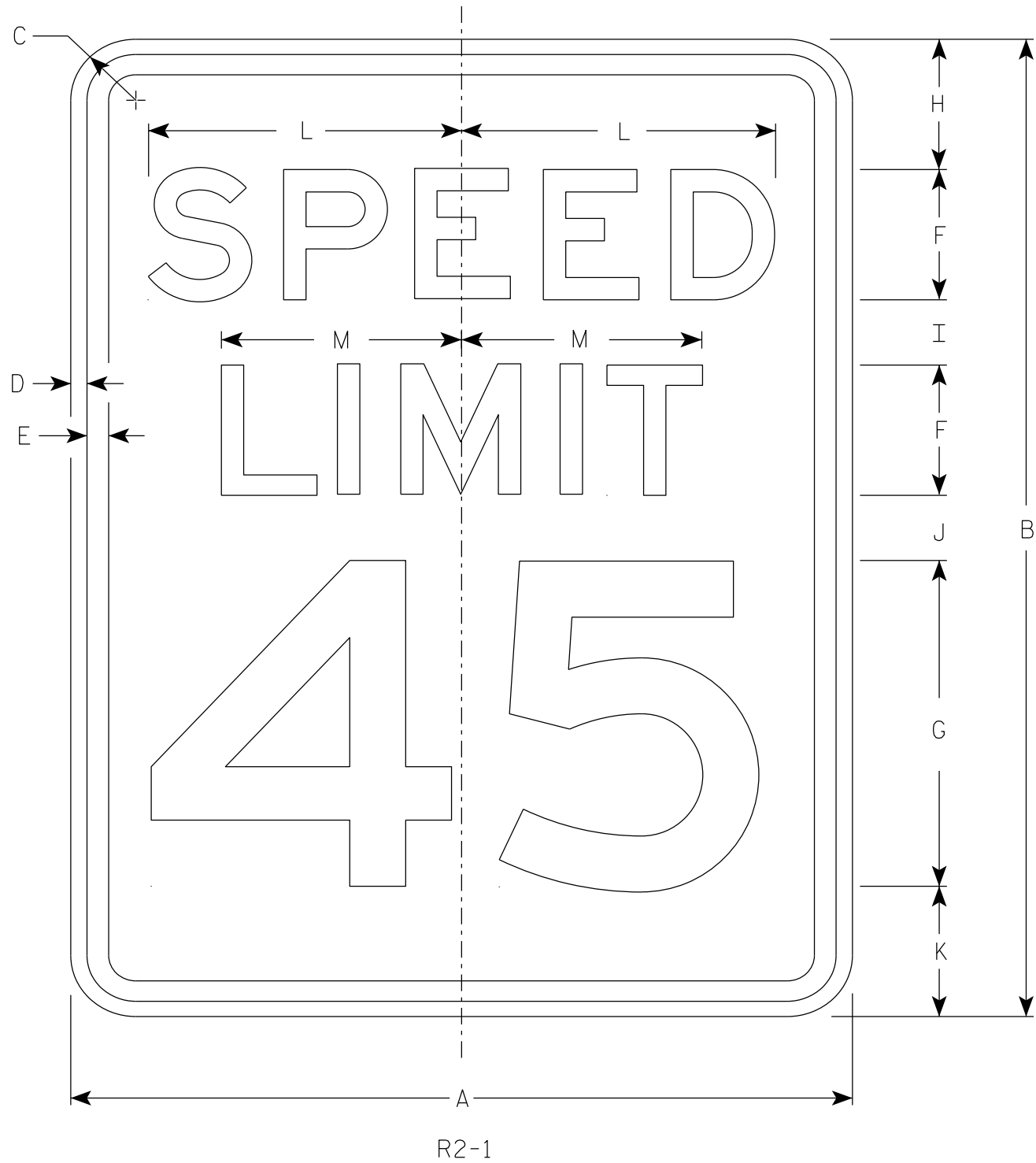
R1 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

7



NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
Background - White
Message - Black
- 3. Message Series - E
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/2	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 7/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN

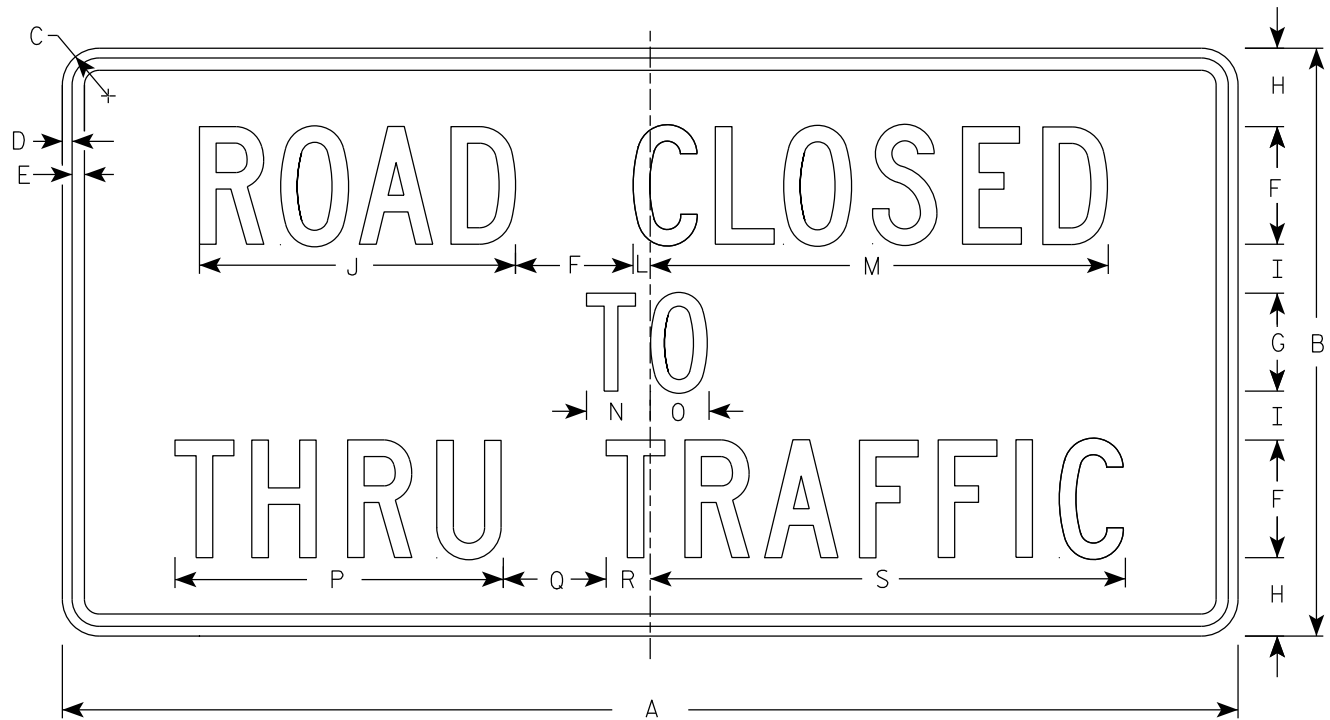
R2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/1/23 PLATE NO. R2-1.14

7



R11-4

NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
 - Background - White
 - Message - Black
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

PROJECT NO:

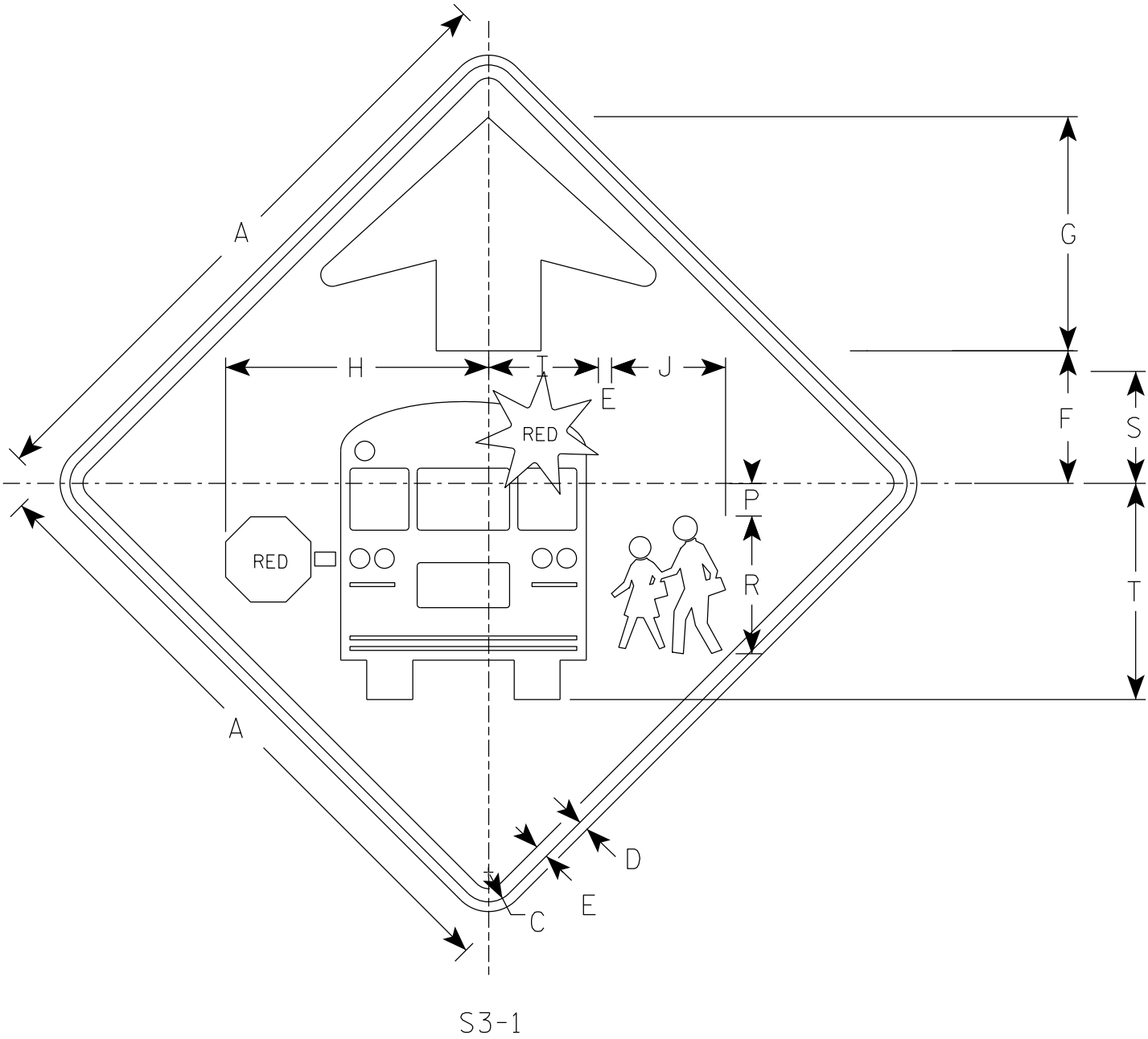
HWY:

COUNTY:

SHEET NO: 77

E

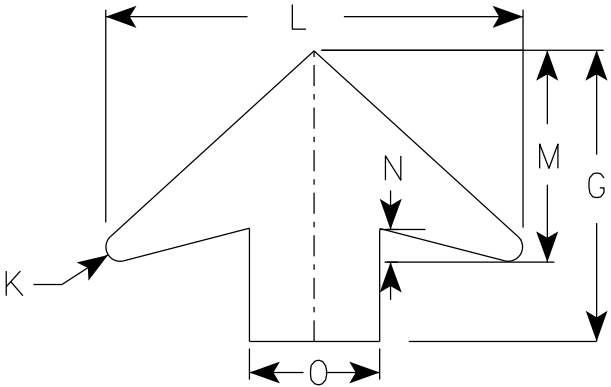
7



S3-1

NOTES

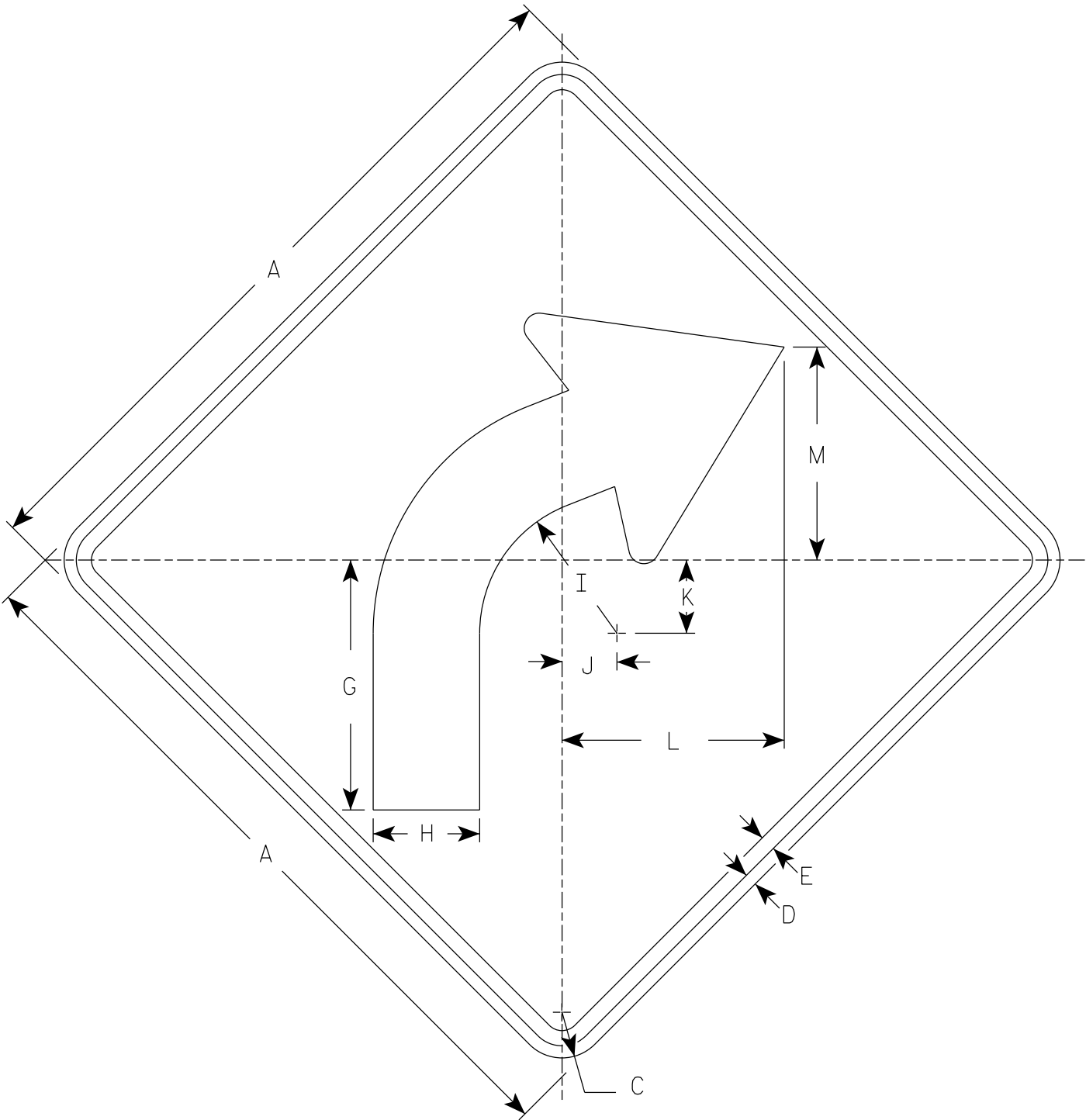
- 1. Sign is Type II - Type F Reflective
- 2. Color:
 - Background - YELLOW-GREEN
 - Message - BLACK except as noted
 - Circles except PEDS- RED BACKGROUND



ARROW DETAIL

7

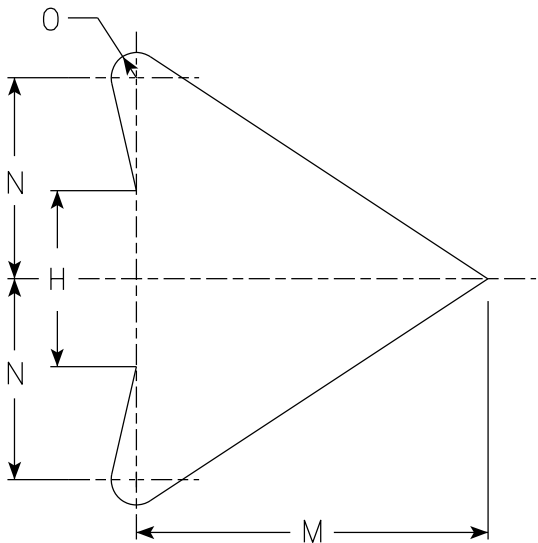
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8	6 1/4	11 1/4	12 1/2	5 1/4	5 1/2	1/2	16	8	1 1/4	5	1 1/2		6 5/8	5 3/8	10 3/8							6.25
2S	36		2 1/4	5/8	3/4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 5/8	6	1 7/8		7 7/8	6 3/8	12 3/8							9.0
2M	36		2 1/4	5/8	3/4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 5/8	6	1 7/8		7 7/8	6 3/8	12 3/8							9.0
3	48		3	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		3	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											



W1-2R

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 7/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		2 1/4	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		2 1/4	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		2 1/4	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		3	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

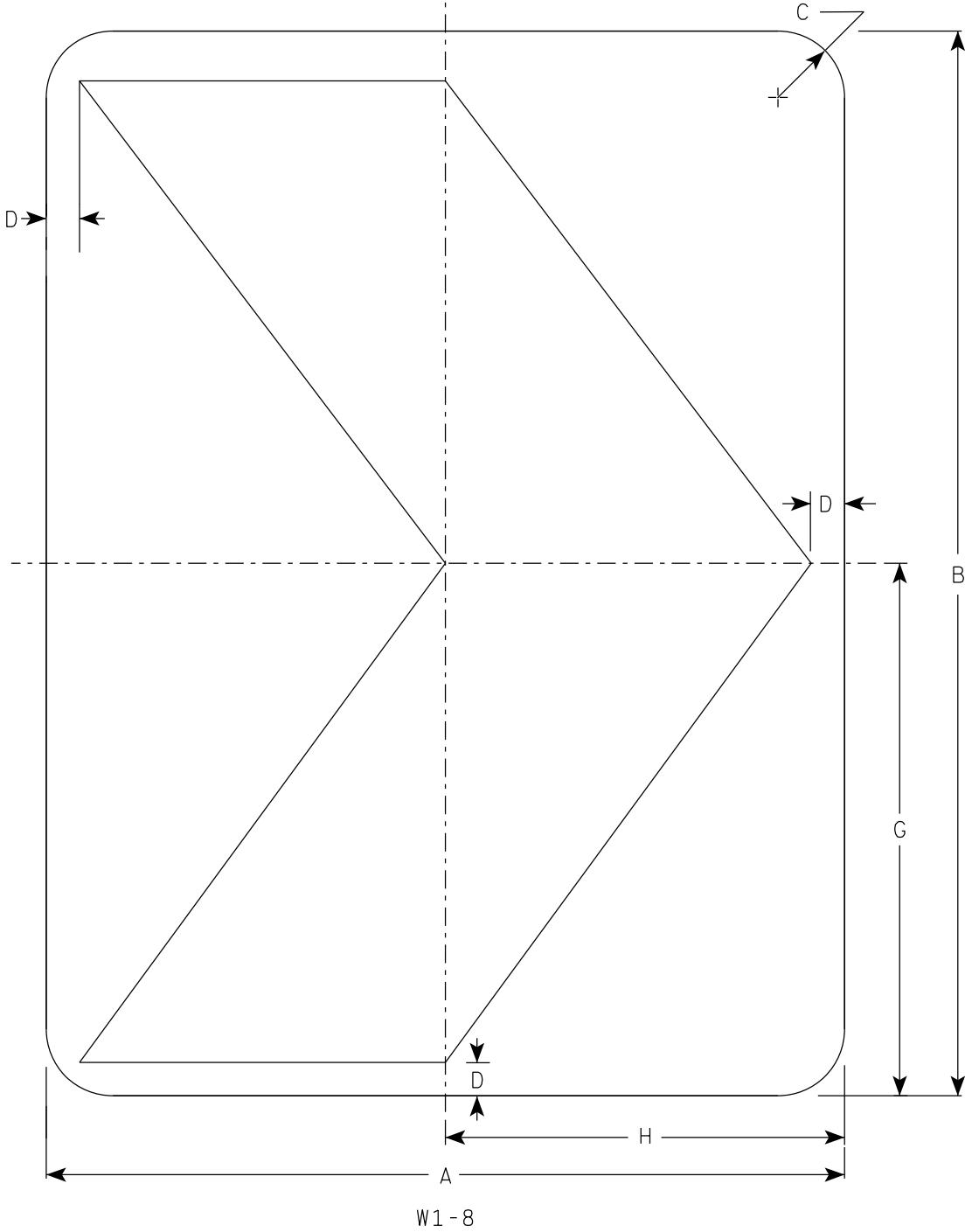
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/23/2023 PLATE NO. W1-2.11

7



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
- Background - Yellow
- Message - Black

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/2	1/2			9	6																			1.5
2S	18	24	1 1/2	3/4			12	9																			3.0
2M	18	24	1 1/2	3/4			12	9																			3.0
3	24	30	1 1/2	1			15	12																			5.0
4	30	36	1 7/8	1 1/4			18	15																			7.5
5	36	48	1 7/8	1 1/2			24	18																			12.0

STANDARD SIGN

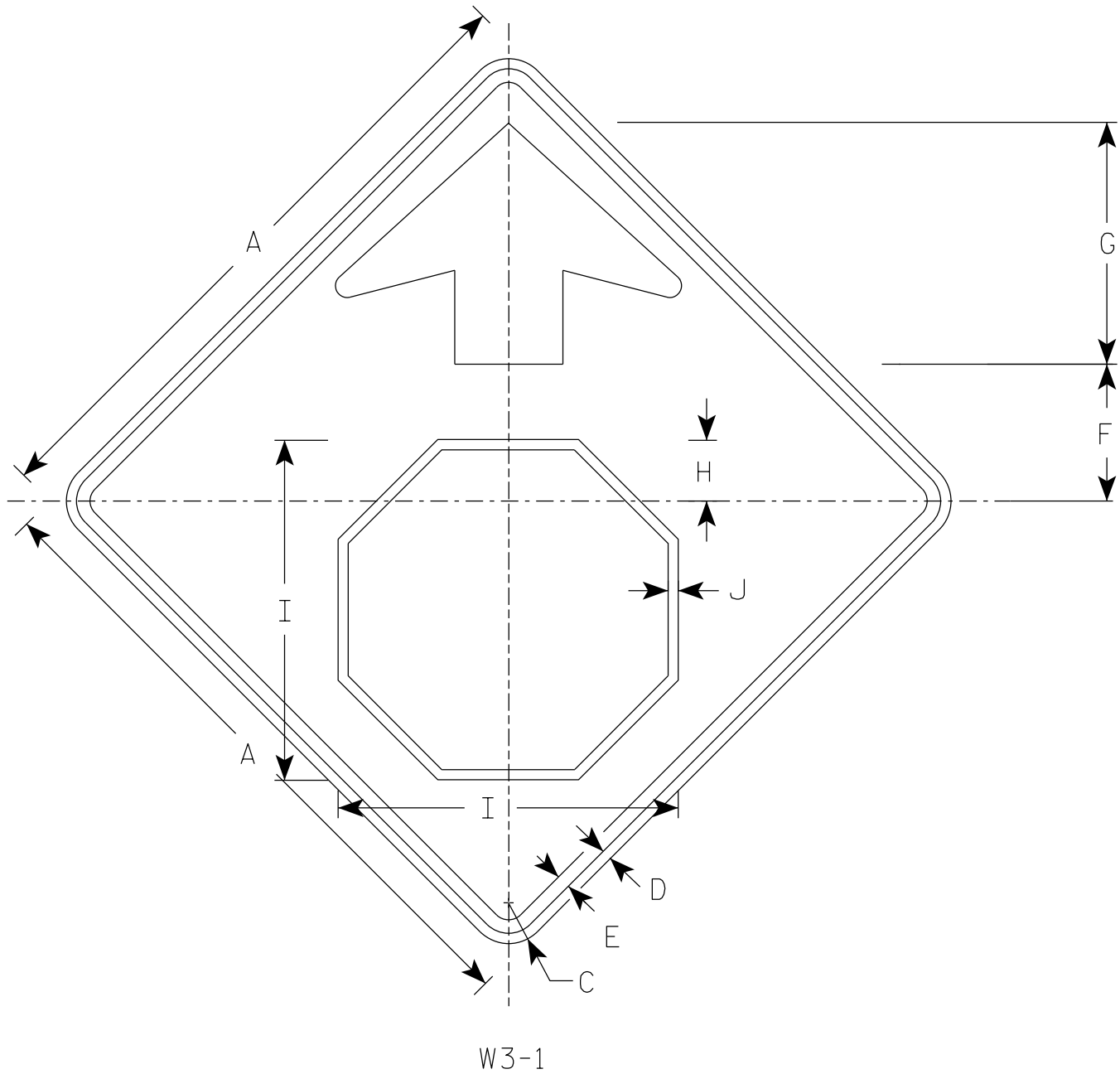
W1-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/11/2023 PLATE NO. W1-8.7

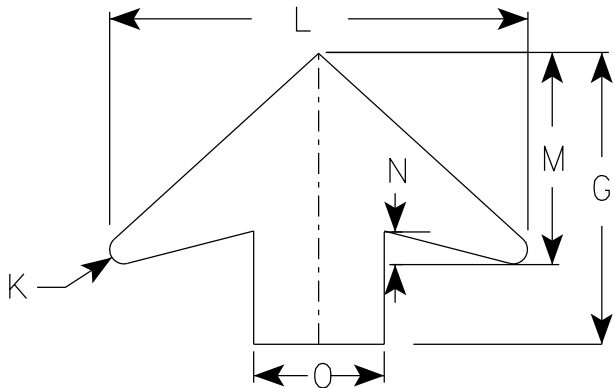
7



W3-1

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
 - Background - Yellow
 - Arrow & Border - Black
 - Stop Symbol - White Border on Red Background



ARROW DETAIL

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8	6 1/4	11 1/4	2 3/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		3	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		3	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN

W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

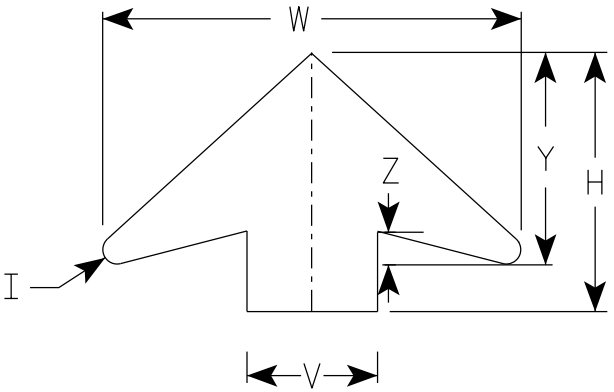
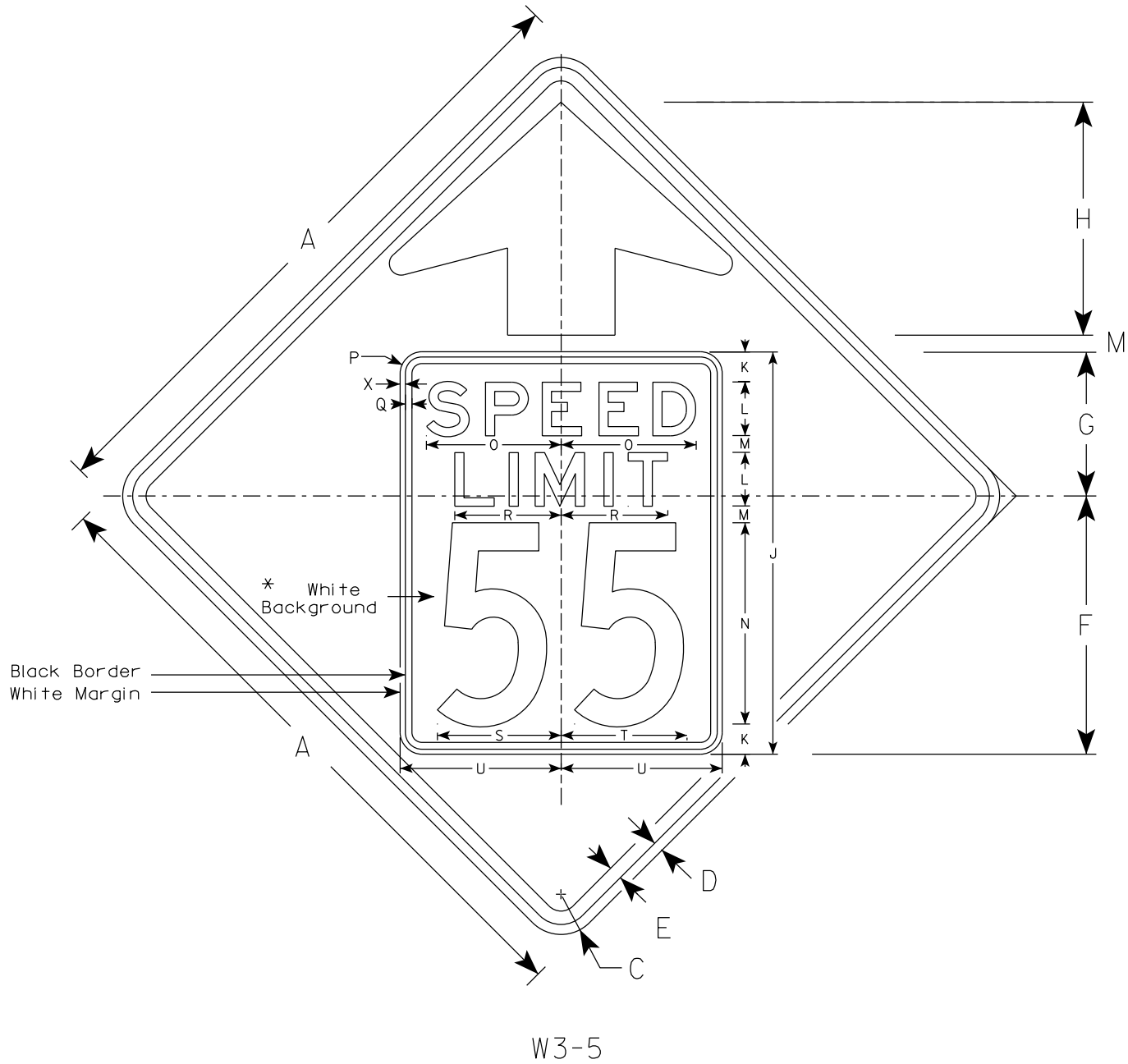
DATE 8/17/2023

PLATE NO. W3-1.13

NOTES

- 1. Sign is Type II - See Note 2 for Sheeting Type
- 2. Color: *
Background - Yellow* (Type F Reflective)
Message - Black
- 3. Message Series - C for numbers Series E for wording
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background with black message (Type SH Reflective)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN

W3-5

WISCONSIN DEPT OF TRANSPORTATION

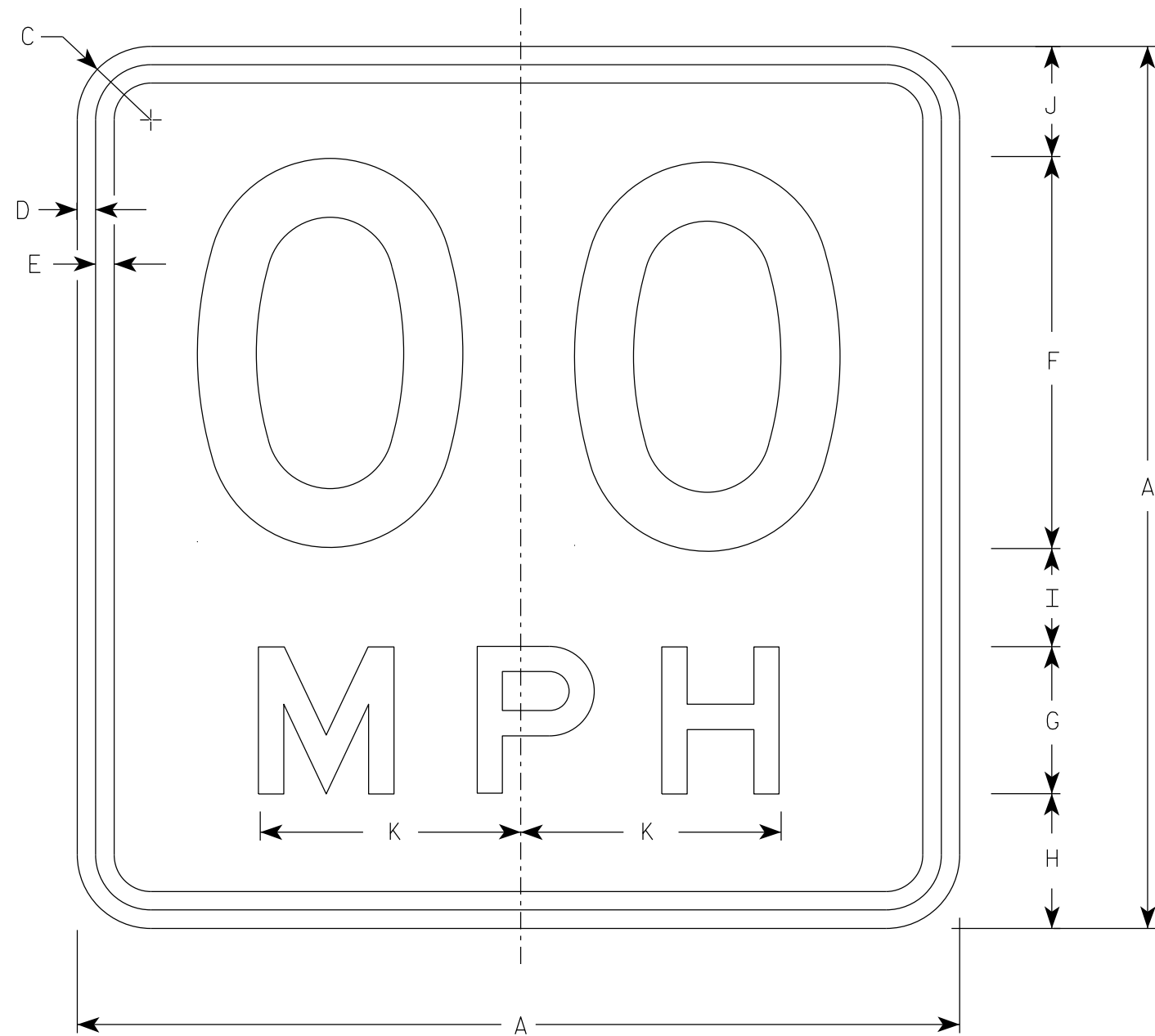
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/30/2023 PLATE NO. W3-5.7

PROJECT NO:

SHEET NO: 82

E



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Yellow
Message - Black
3. Message Series - See Note 5
4. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
5. Line 1 is Series D
Line 2 is Series E

W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
✱ 2S	1	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8															2.25
	2	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8															2.25
✱ 2M	3	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8															2.25
	4	24		1 1/2	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8															4.00
	5	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8															9.00
	6	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8															9.00

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R. Rauch
For State Traffic Engineer

DATE 1/8/2024 PLATE NO. W13-1.17

PROJECT NO:

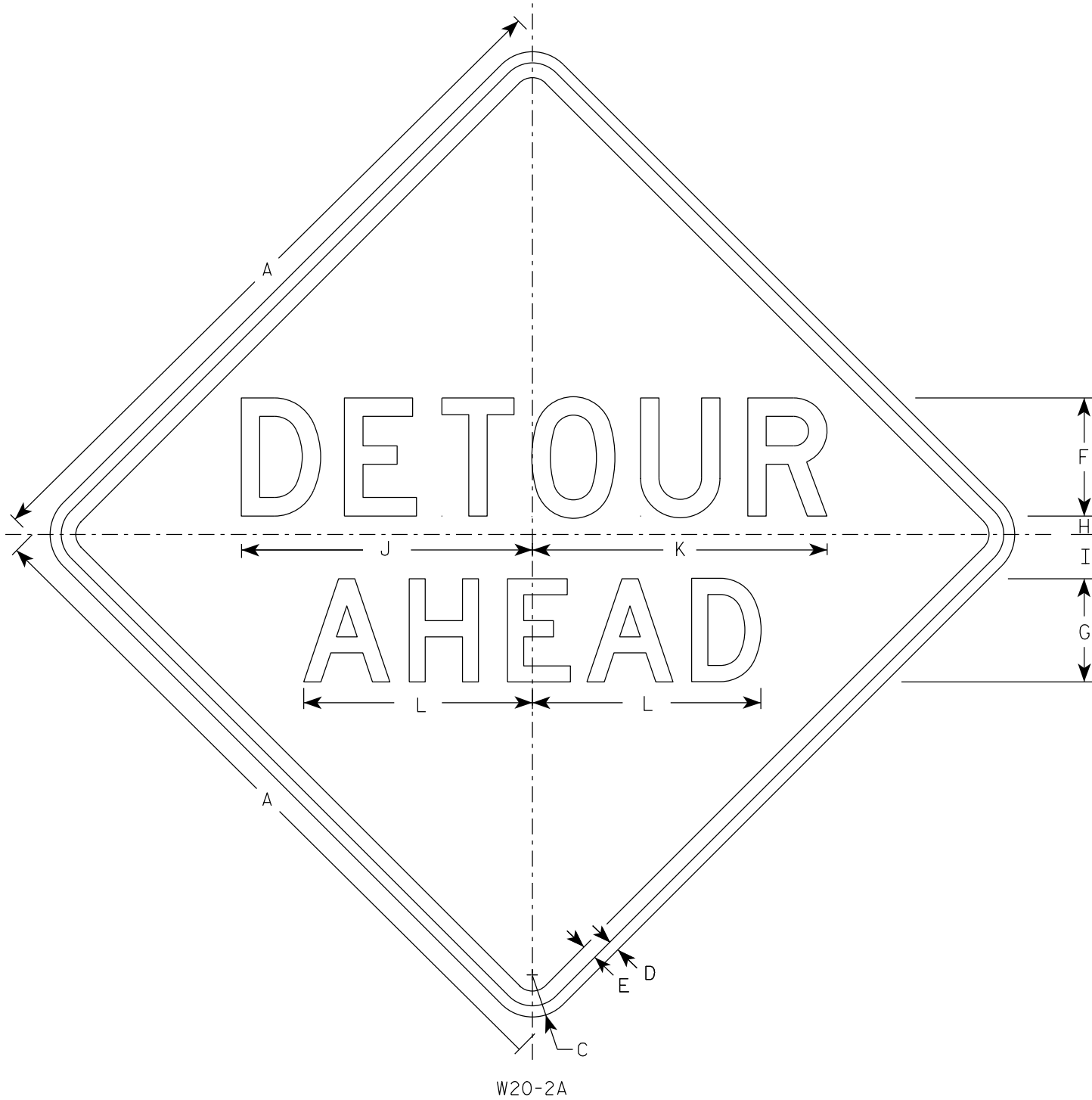
HWY:

COUNTY:

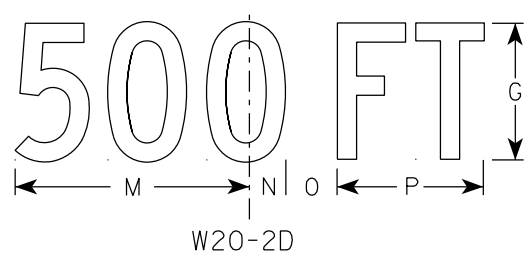
SHEET NO:

83

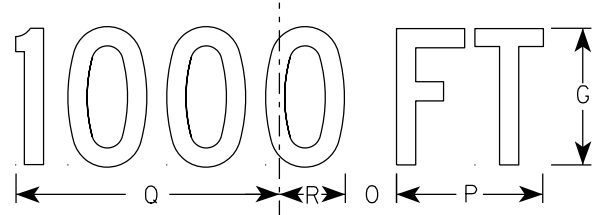
E



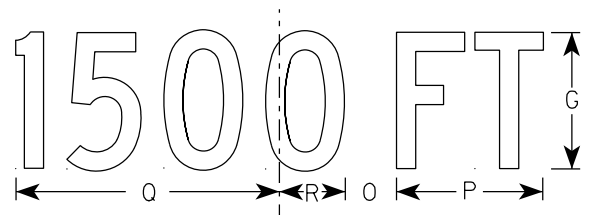
W20-2A



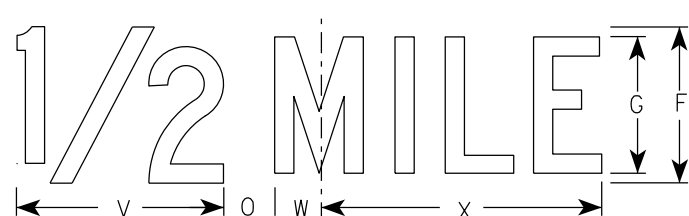
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

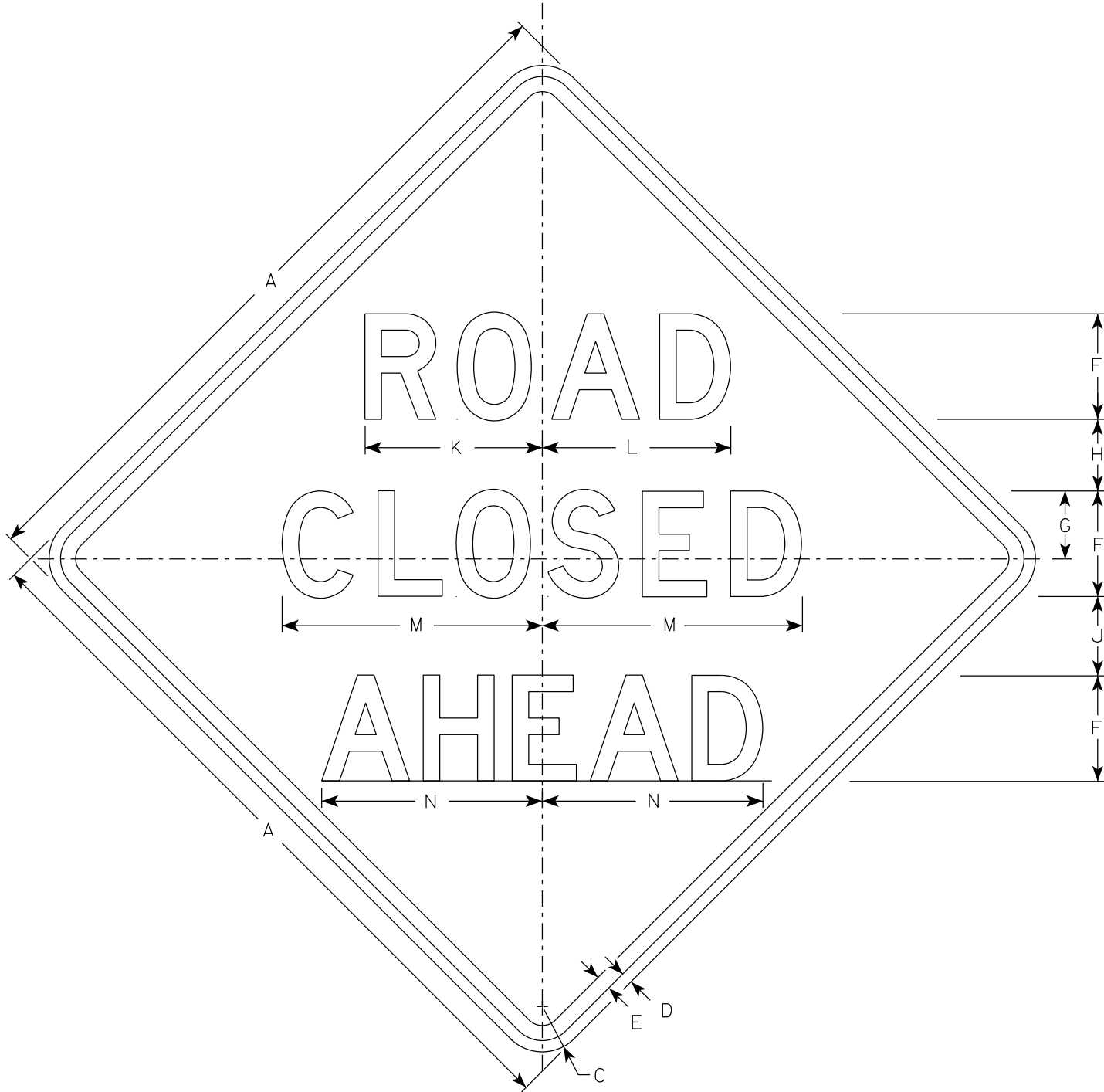
1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

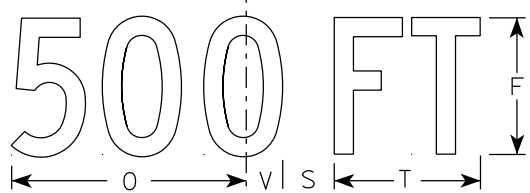
STANDARD SIGN W20-2A,B,C,D,F & G	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 1/10/2024	PLATE NO. W20-2.7

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 84	E
-------------	------	---------	--------------	---

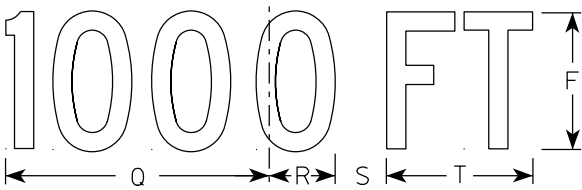
7



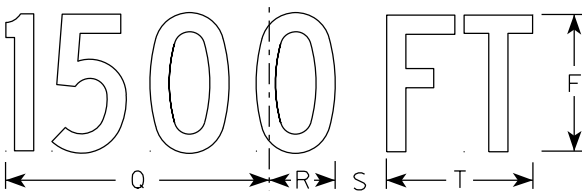
W20-3A



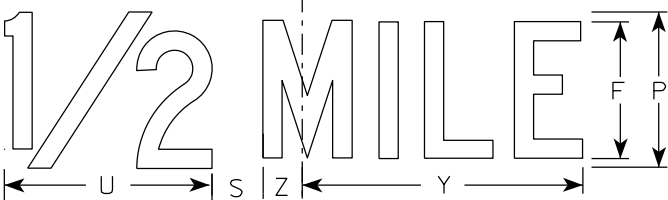
W20-3D



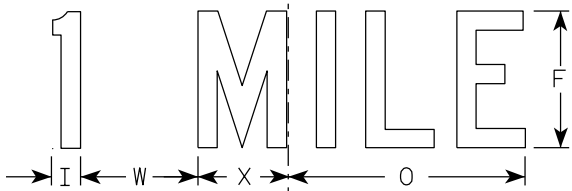
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
Line 3 is Series D for AHEAD and Series C for all other distances.

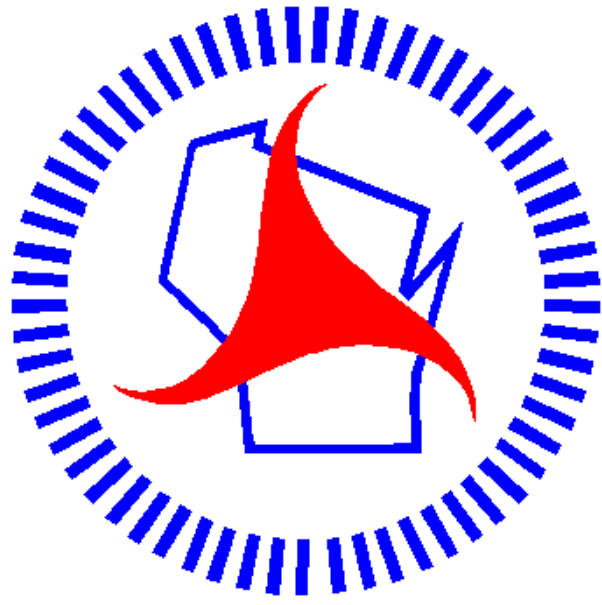
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	v	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-3.8



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

<http://www.dot.wisconsin.gov>