# MAY 2025 ORDER OF SHEETS

Typical Sections and Details Estimate of Quantities

Sign Plates

TOTAL SHEETS = 82

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

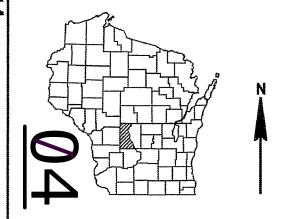
# **REEDSBURG - MAUSTON (CTH K)**

SAUK COUNTY LINE TO CTH O

CTH K JUNEAU COUNTY

> STATE PROJECT NUMBER 5809-00-74

> > Lemonwerr



#### DESIGN DESIGNATION

A.A.D.T. = 550 D.H.V. D.D. = 50/50 = 14.0% **DESIGN SPEED** = 55 MPH

## **CONVENTIONAL SYMBOLS**

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 MARSH OR ROCK PROFILE (To be noted as such) GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER STORM SEWER

WATER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

R-3-E

**END PROJECT** STA 545+10

SCALE

TOTAL NET LENGTH OF CENTERLINE = 8.410 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), JUNEAU 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 GEOD 12A.

**BEGIN PROJECT** 

STA 101+05

Y=100,119.883

X=483,564.948

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5809-00-74 WISC 2025497

> ACCEPTED FOR COUNTY

**ORIGINAL PLANS PREPARED BY** 

SEH Short Empty Territory 329 Jay Street, Suite 301 La Crosse, WI 54601-4007 a Better World 608.782.3161 main | 888.908.8166 fax

Short Elliott Hendrickson Inc.



DEPARTMENT OF TRANSPORTATION

PREPARED BY

PPROVED FOR THE BEPARTMENT

Digitally signed by Della Koenig P.E Date: 2025.02.04 12:53:49-06'00' 2/4/2025

DELLA KOENIG

SW REGION

R-5-E

#### STANDARD ABBREVIATIONS

**EQUIVALENT SINGLE AXLE LOADS** 

**EXCAVATION BELOW SUBGRADE** 

**EXCAVATION** 

FACE OF CURB

FACE TO FACE

**EXISTING** 

**FERTILIZE** FIELD ENTRANCE

FLOW LINE FIBER OPTIC

HYDRANT

TOTAL PROJECT AREA = 67.3 ACRES

PROJECT NO:

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 33.8 ACRES

HUNDREDWEIGHT

**ESALS** 

EXC

EBS

FC

FF

FE FL

**FERT** 

CWT

HYD

**EXIST** 

**ABUTMENT** INSIDE DIAMETER ABUT ID INV INVERT AGG AGGREGATE IΡ IRON PIPE ON PIN APRON ENDWALL FOR CULVERT PIPE LHF LEFT-HAND FORWARD **AECPRC** REINFORCED CONCRETE LENGTH OF CURVE APRON ENDWALL FOR CULVERT PIPE 1 F LINEAR FOOT CORRUGATED STEEL LC LONG CHORD OF CURVE ASPH ASPHALTIC LS LUMP SUM AVG **AVERAGE** МН MANHOLE ADT AVERAGE DAILY TRAFFIC MOR MID POINT OF RADIUS BF **BACK FACE** NC NORMAL CROWN BENCH MARK NO NUMBER RR BRIDGE **OBLIT OBLITERATE** COMMERCIAL ENTRANCE CE **PAVEMENT** PAVT C/L CENTER LINE PΕ PRIVATE ENTRANCE CENTRAL ANGLE OR DELTA **PVRC** POINT OF VERTICAL REVERSE CURVE COB CENTER OF BARRIER QUARTER POINT OF RADIUS OOR CONC CONCRETE **RADIUS CULVERT PIPE REINFORCED CONCRETE** REQ'D REQUIRED CULVERT PIPE REINFORCED CONCRETE CPRCHE RES RESIDENCE OR RESIDENTIAL HORIZONTAL ELLIPTICAL RHF RIGHT-HAND FORWARD CR CREEK R/W RIGHT-OF-WAY CY **CUBIC YARD** RIVER C&G **CURB AND GUTTER RDWY** ROADWAY DEGREE OF CURVE D R/L REFERENCE LINE DHV **DESIGN HOUR VOLUME** SALV SALVAGED DISCH DISCHARGE SAN SANITARY SEWER DITCH GRADE DG **SQUARE FEET** DWY DRIVEWAY SQUARE YARD SY EAST GRID COORDINATE Χ SDD STANDARD DETAIL DRAWINGS STEEL PLATE BEAM GUARD ENERGY EAT STA STATION ABSORBING TERMINAL EOR END POINT OF RADIUS SS STORM SEWER STORM SEWER PIPE REINFORCED **ELEVATION** EL SSPRC CONCRETE FNT **ENTRANCE** 

**DNR AREA LIAISON:** 

WI DEPT OF NATURAL RESOURCES DNR SERVICE CENTER 3550 MORMON COULEE RD LA CROSSE, WI 54601 TELEPHONE: 608.785.9115 ATTENTION: KAREN KALVELAGE EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

#### WISDOT CONTACT:

WISCONSIN DEPT OF TRANSPORATION SOUTHWEST REGION 2102 WRIGHT STREET MADISON, WI 53704 TELEPHONE: 608.246.7963 ATTENTION: DELLA KOENIG FMAIL: DELLA KOENIG@DOT WLGOV

#### DESIGN CONTACT:

329 JAY STREET, SUITE 301 LA CROSSE, WI 54601 TELEPHONE: 608 498 4804 ATTENTION: ALEIGHA BURG EMAIL: ABURG@SEHINC.COM

#### **UTILITY CONTACT LIST:**

FRONTIER - COMMUNICATION N360 NEBRASKA ST. BRIGGSVILLE, WI 53920 ATTENTION: JERRY MOORE TELEPHONE: 608.742.9507 EMAIL: JERALD.R.MOORE@FTR.COM

OAKDALE ELECTRIC COOPERATIVE - ELECTRICITY P.O. BOX 40 OAKDALE WI 54649 ATTENTION: TRAVIS CHAMPLIN TELEPHONE: 608.372.8848 EMAIL: TCHAMPLIN@OAKDALEREC.COOP



#### **GENERAL NOTES:**

- 1. NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
- 2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
- WETLANDS, WATERWAYS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.
- 4. TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- ASPHALTIC AND CONCRETE SURFACES SHALL BE SAWCUT AT THE MATCH LINE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.
- 7. DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE TOPSOILED, FERTILIZED AND SEEDED.
- 8. FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR
- 9. HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.
- 10. THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN AND TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING OR PARKING LANE.

#### RUNOFF COEFFICIENT TABLE

SE

TC

TYP

VAR

VC

T OR TN

SUPERELEVATION RATE

TRUCKS (PERCENT OF)

NORTH GRID COORDINATE

TOP OF CURB

TOWN

TYPICAL

VARIABLE

VERTICAL CURVE

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

**BORING LOG:** 

BORING NO.	STATION	ASPHALTIC PAVEMENT DEPTH (IN)	BASE DEPTH (IN)	SUBBASE MATERIAL
B-106	263+97	5	5	Clay
B-107	285+84	5	5	Silty Sand
B-108	312+99	5	3	Silty Sand
B-109	336+83	5	4	Sand
B-110	348+68	3.5	4	Silty Sand
B-111	380+19	3	4	Silty Sand
B-112	419+39	4	8	Silty Clay
B-113	448+03	5	6	Silty Clay
B-114	465+16	6	4	Silty Clay
B-115	541+32	7	7	Silty Clay
B-116	495+76	5	10	Silty Sand

5809-00-74 HWY: CTH K COUNTY: JUNEAU

**GENERAL NOTES** 

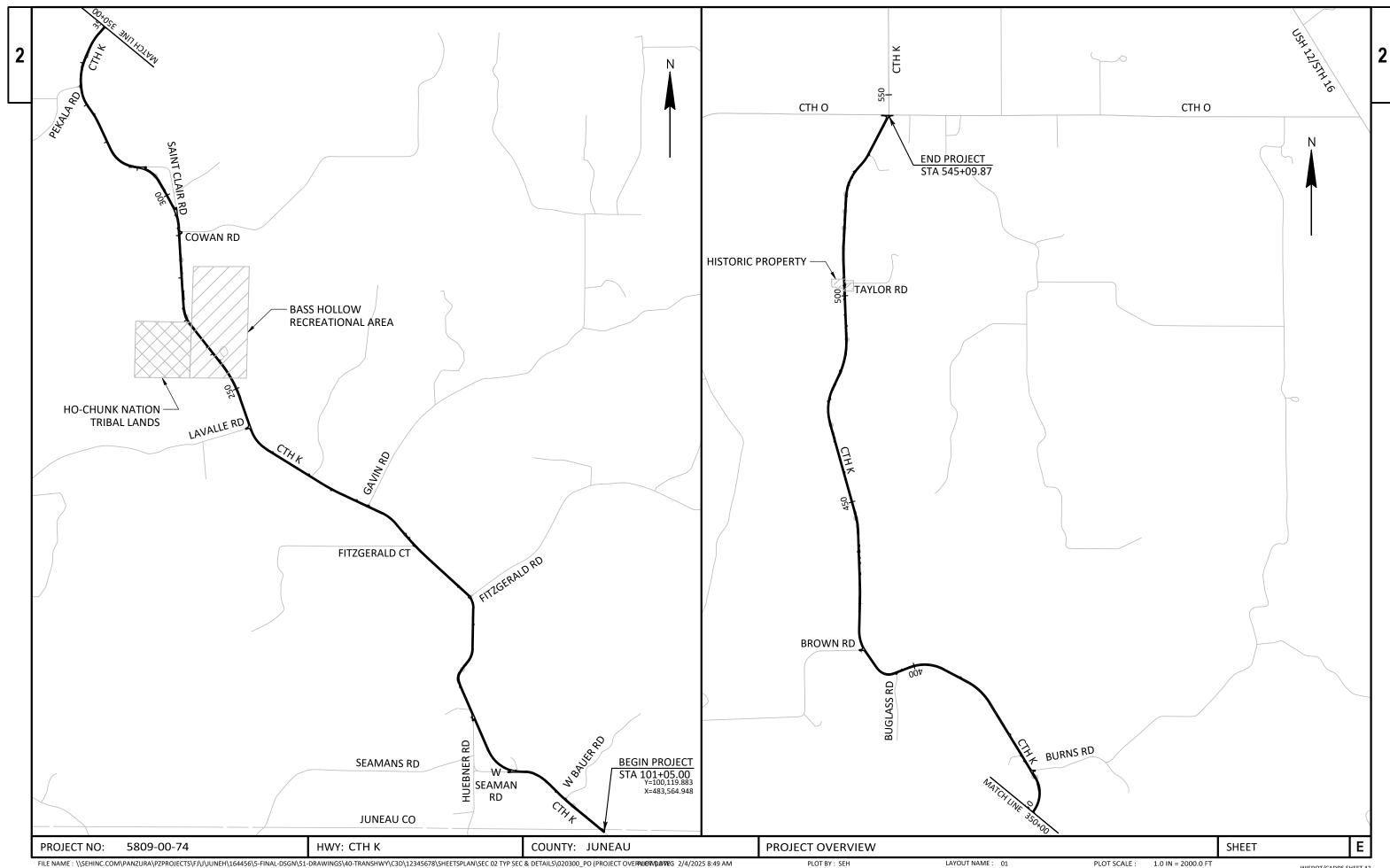
SHEET

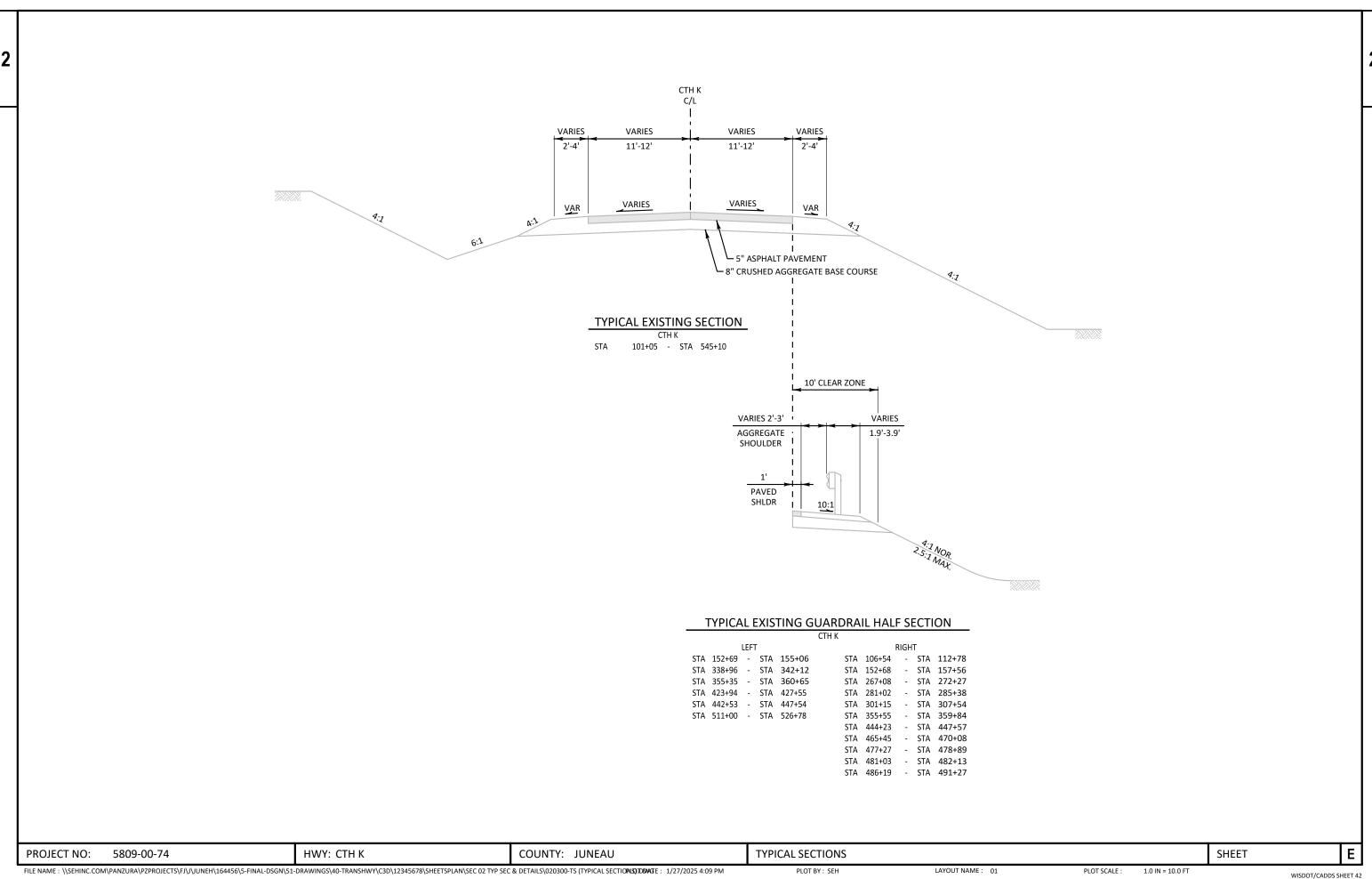
FILE NAME : X:\FJ\/\JUNEH\164456\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\C3D\12345678\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\020101\_GN (GENERAL NOTES).DWG

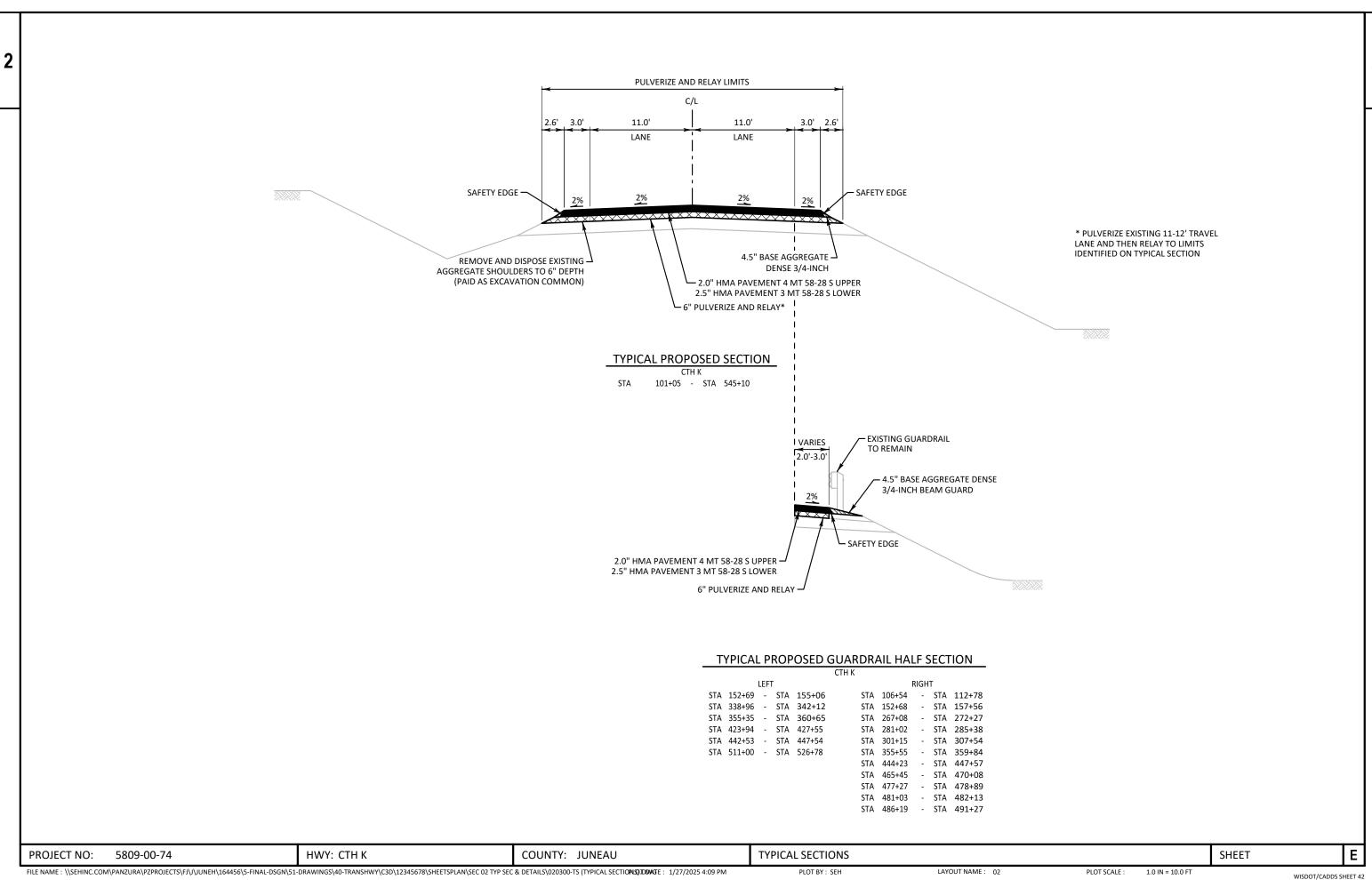
PLOT DATE: 3/19/2025 6:40 AM

LAYOUT NAME: 01

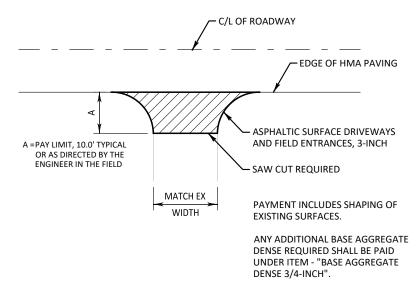
PLOT SCALE : 1.0 IN = 200.0 FT



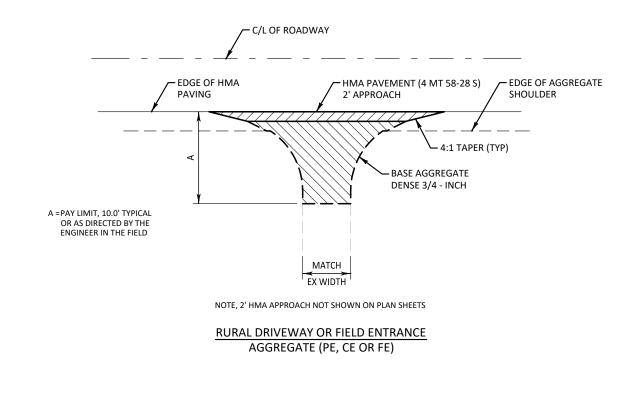


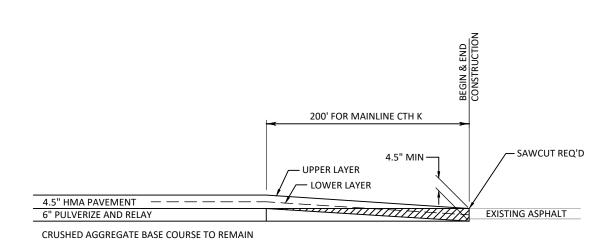






# ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTERANCES (PE,CE, OR FE)





REMOVING ASPHALTIC SURFACE, BUTT JOINT

REMOVING ASPHALTIC SURFACE BUTT JOINTS

CONSTRUCTION DETAILS SHEET **E** 

FILE NAME: \\SEHINC.COM\PANZURA\PZPROJECTS\FJ\\\UNNEH\164456\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\C3D\12345678\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021001-CD (CONSTRUCTIORIDETBASE DVS/27/2025 3:56 PM

COUNTY: JUNEAU

HWY: CTH K

PROJECT NO:

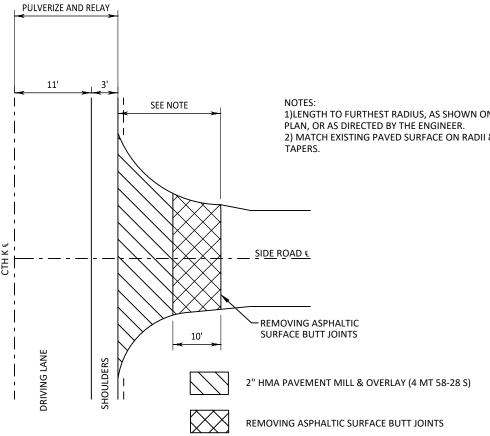
5809-00-74

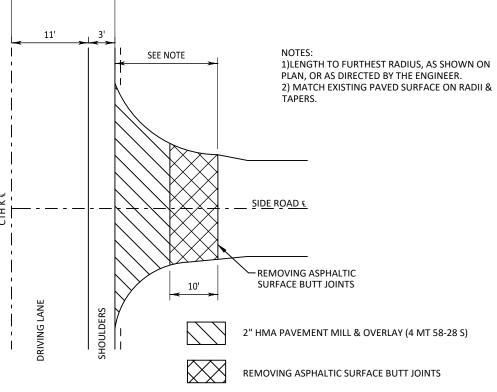
PLOT BY: SEH

LAYOUT NAME: 01

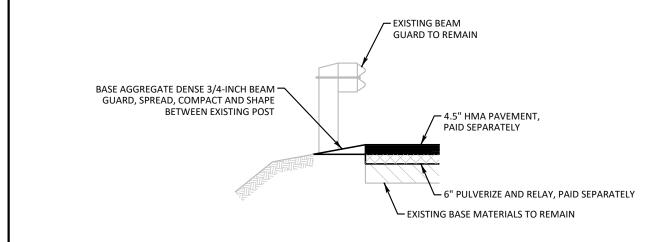
PLOT SCALE: 1 IN:100 FT

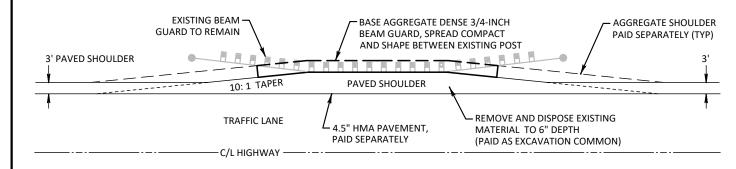
WISDOT/CADDS SHEET 42



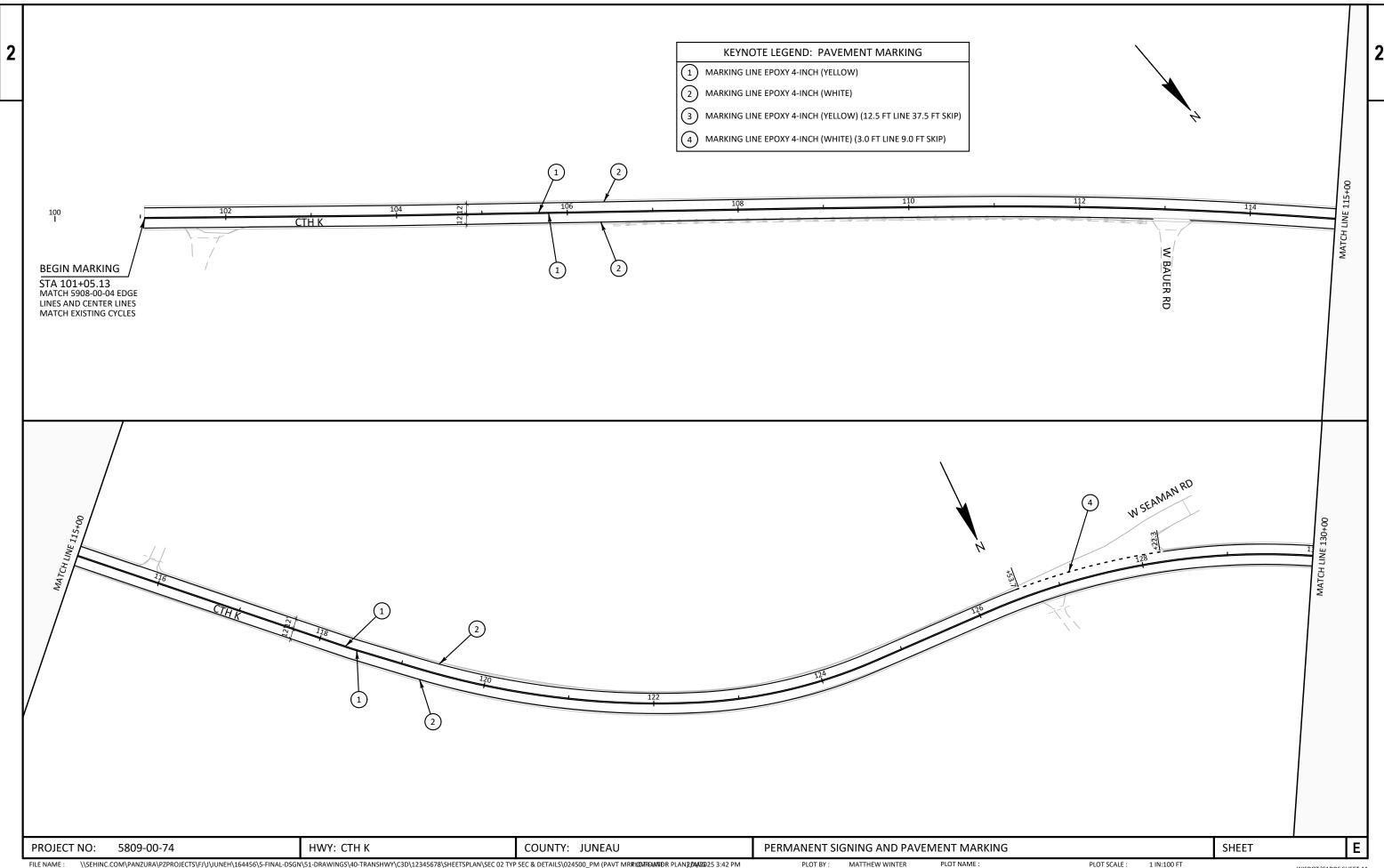


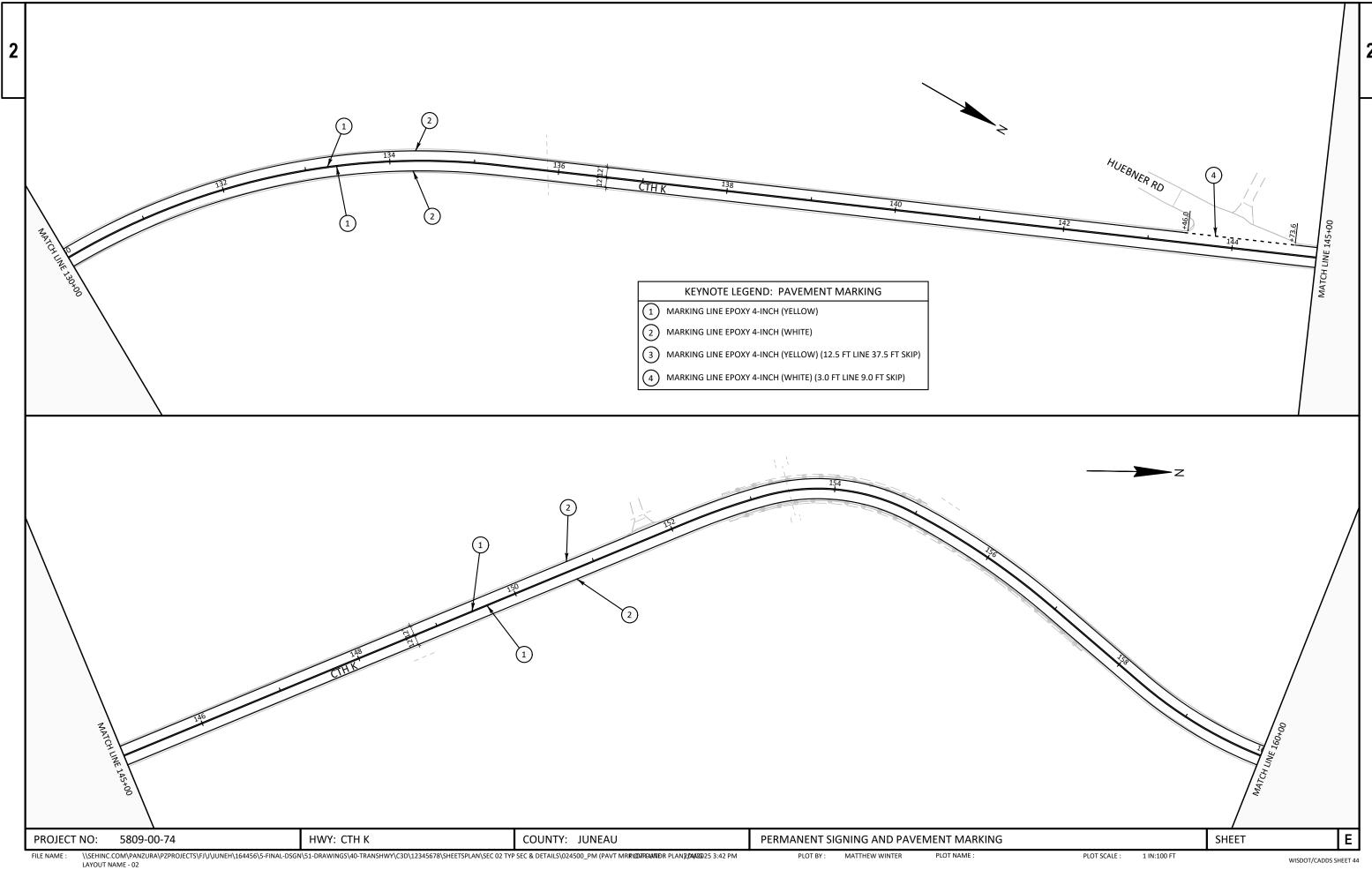
SIDE ROAD PAVING DETAIL

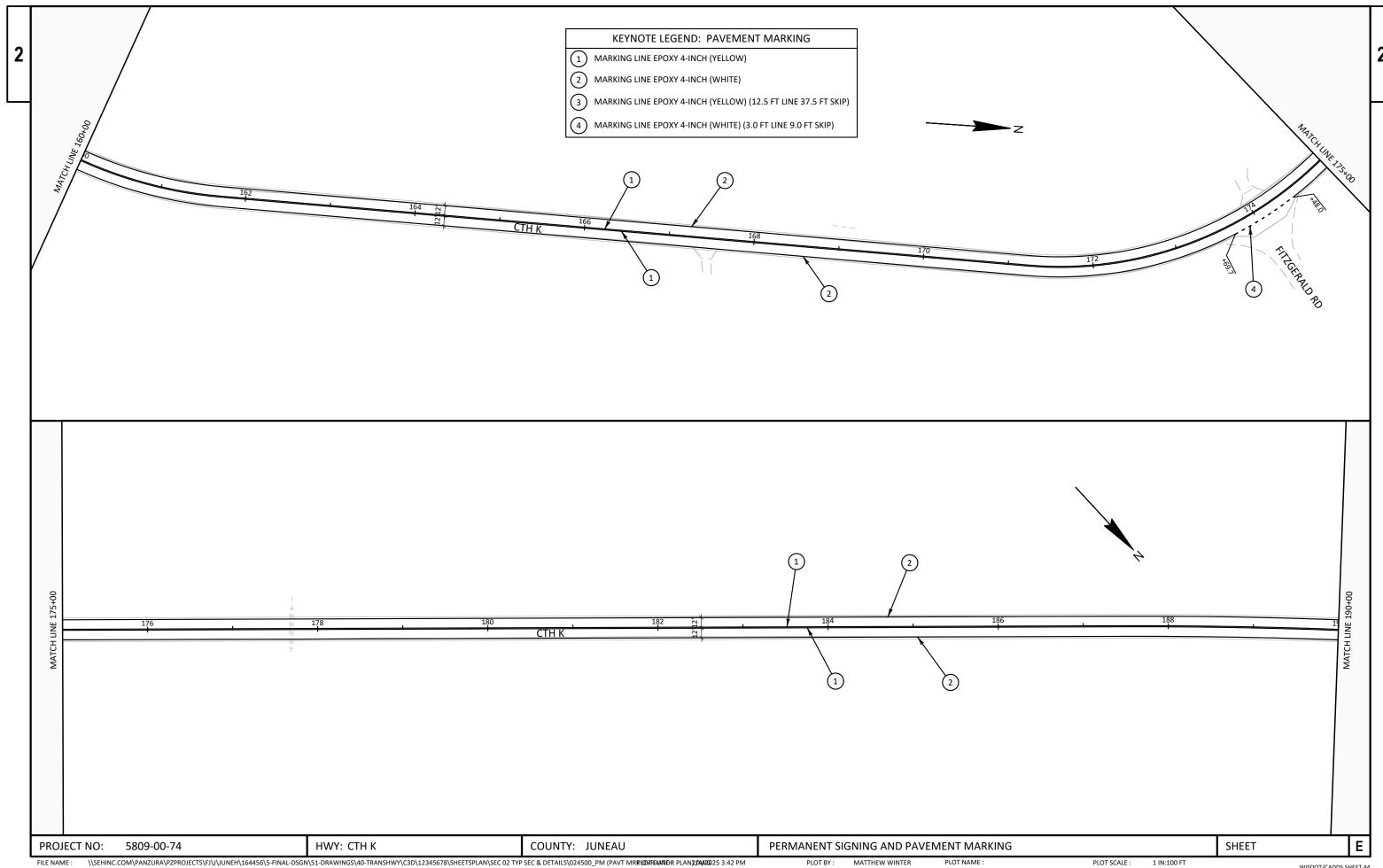


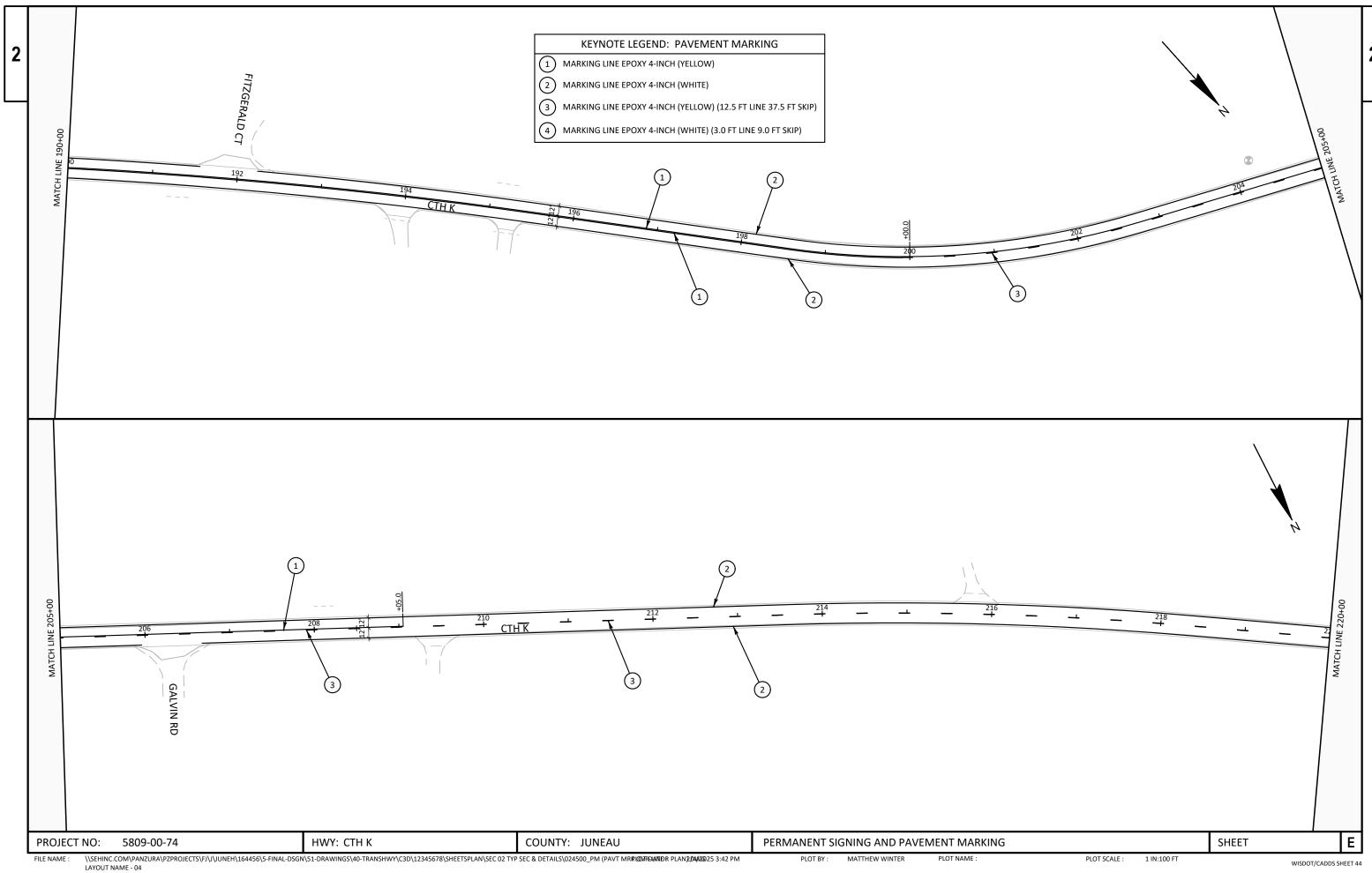


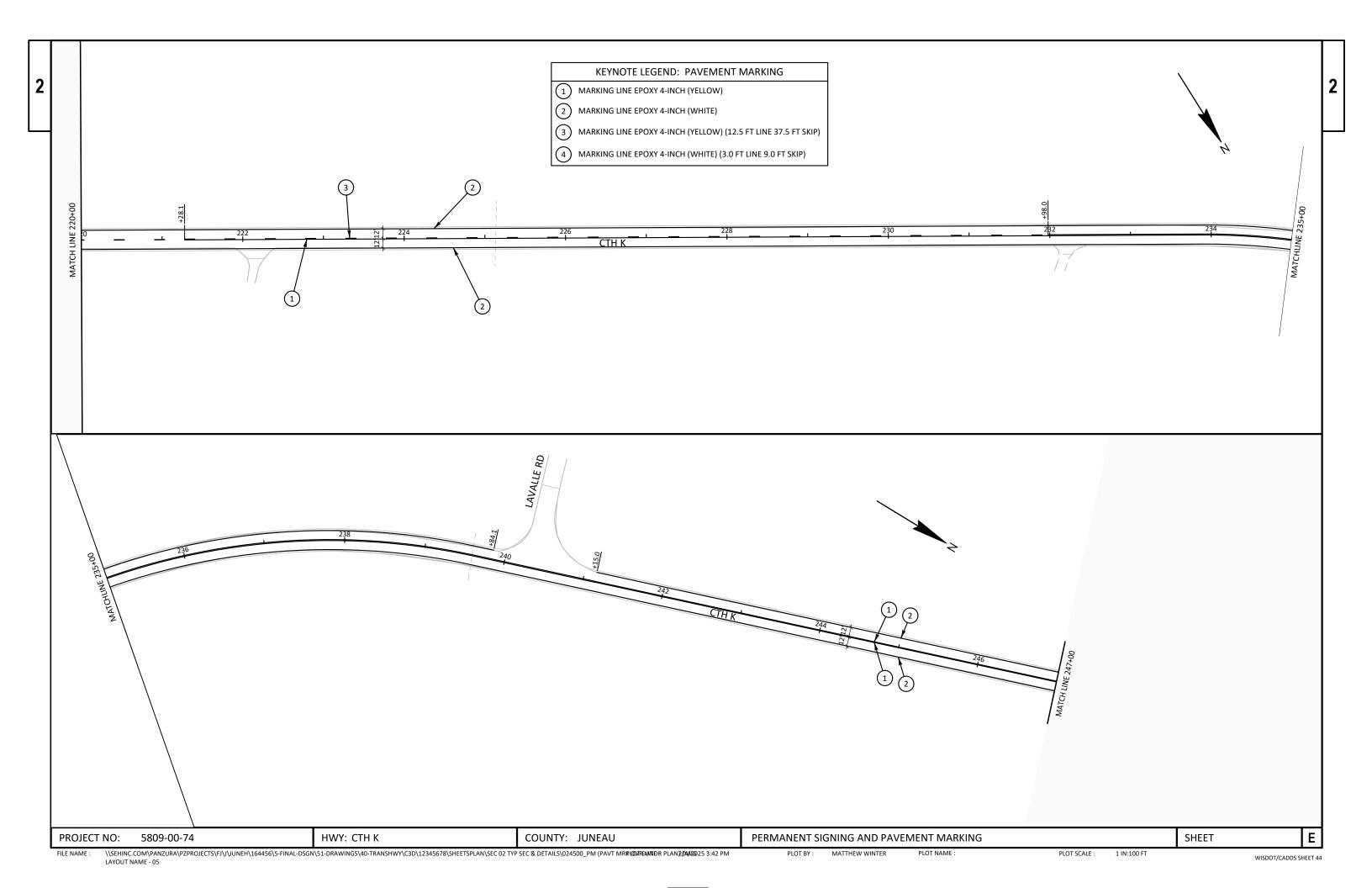
BASE AGGREGATE DENSE 3/4-INCH BEAM GUARD

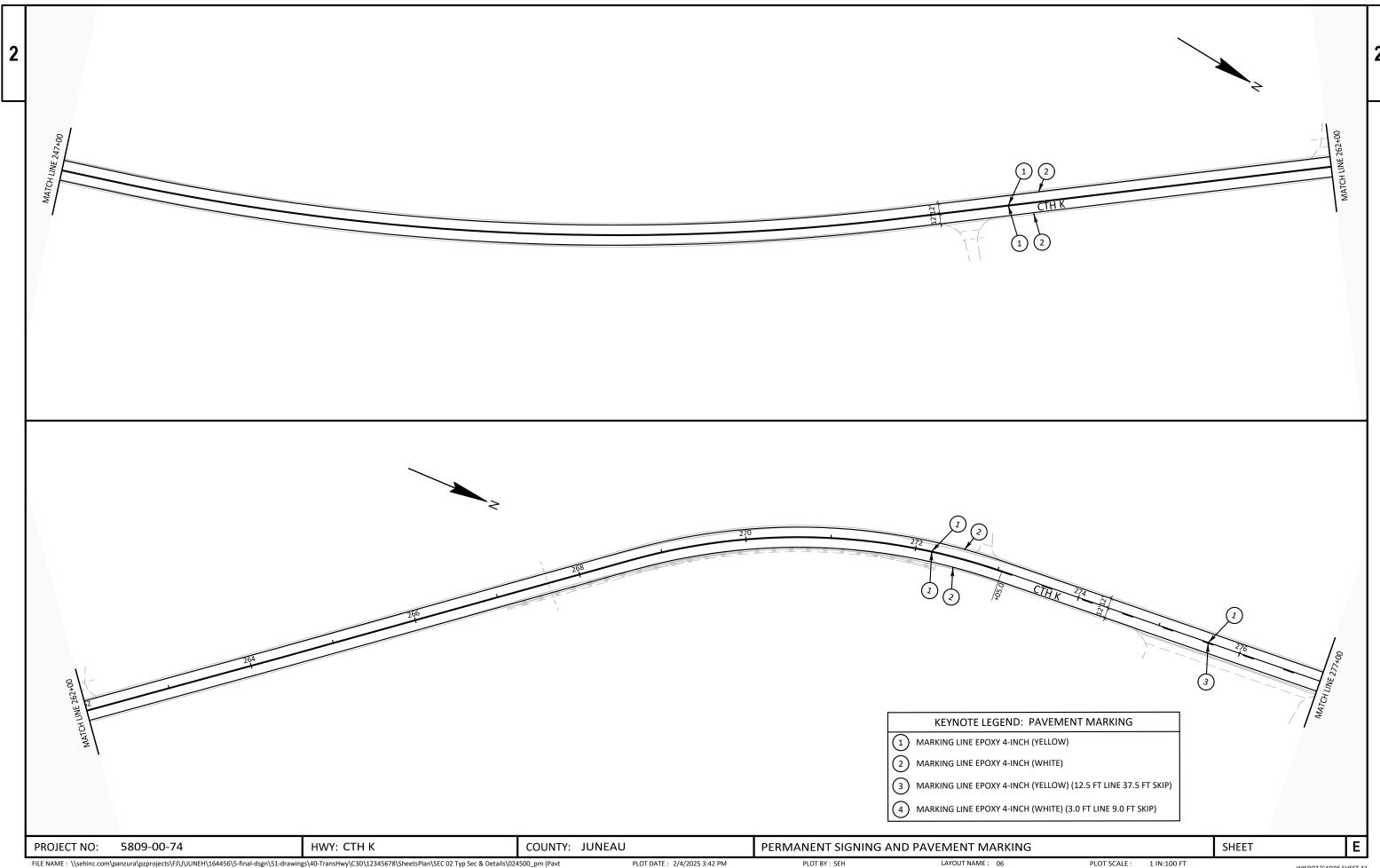


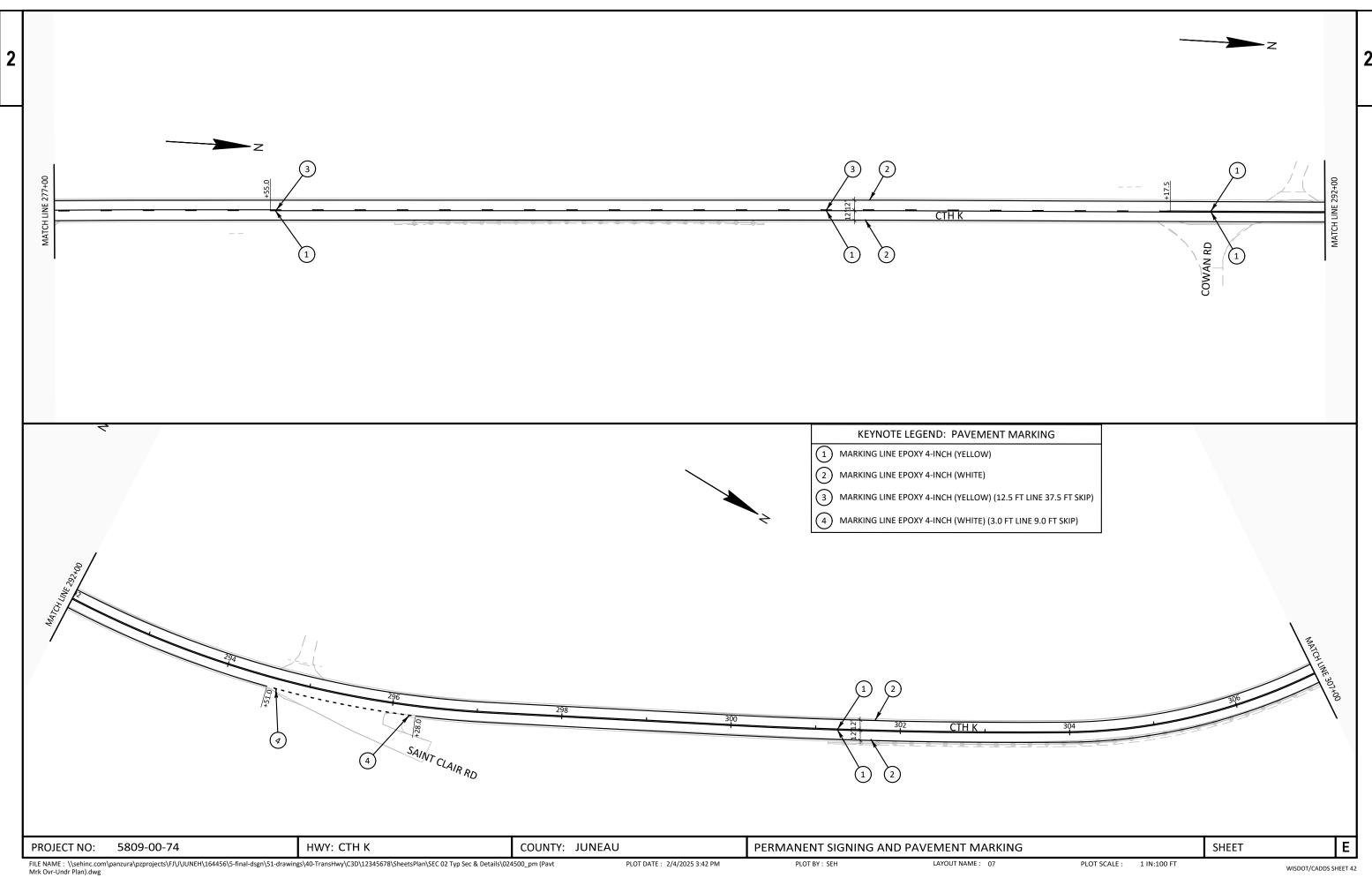


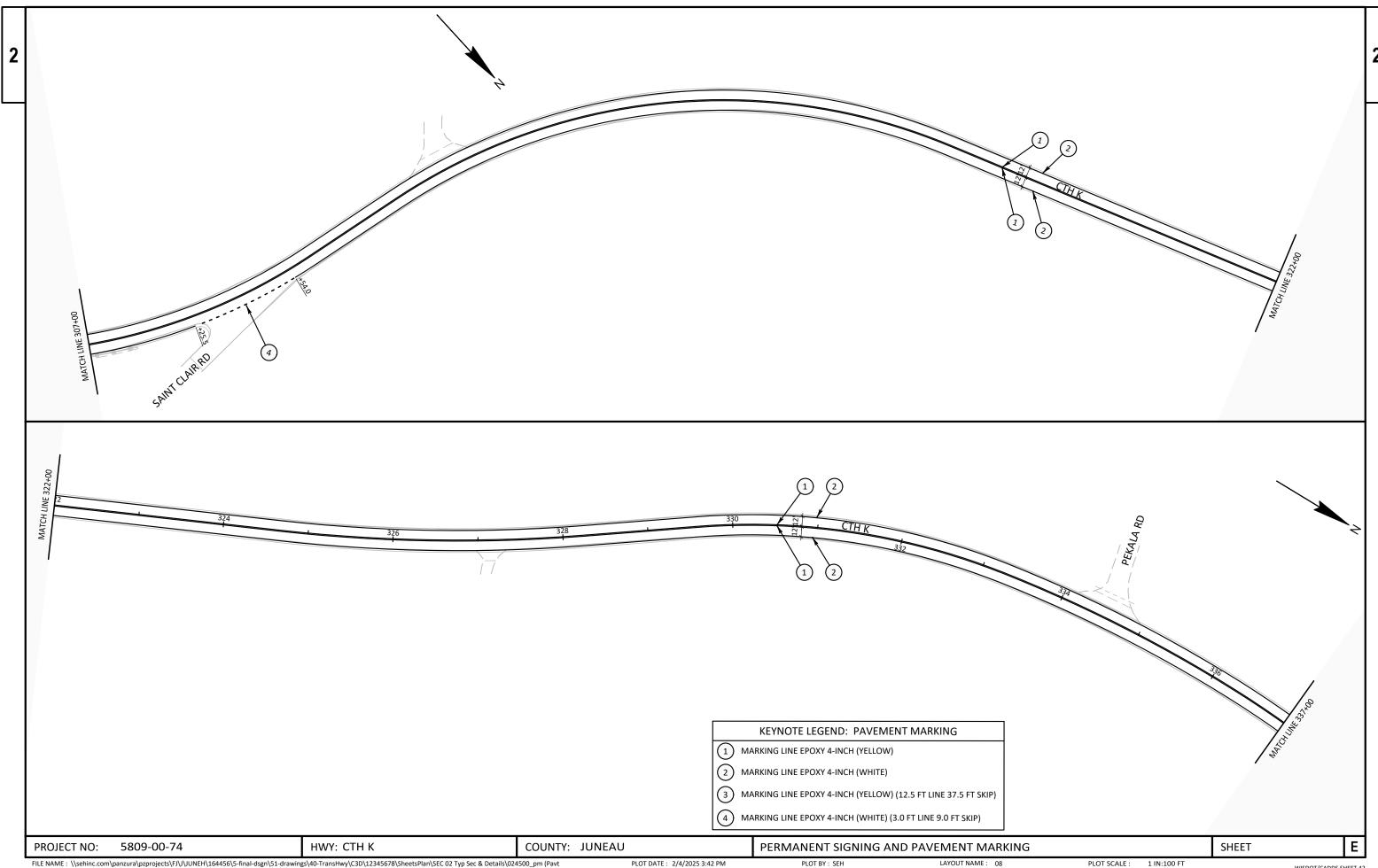


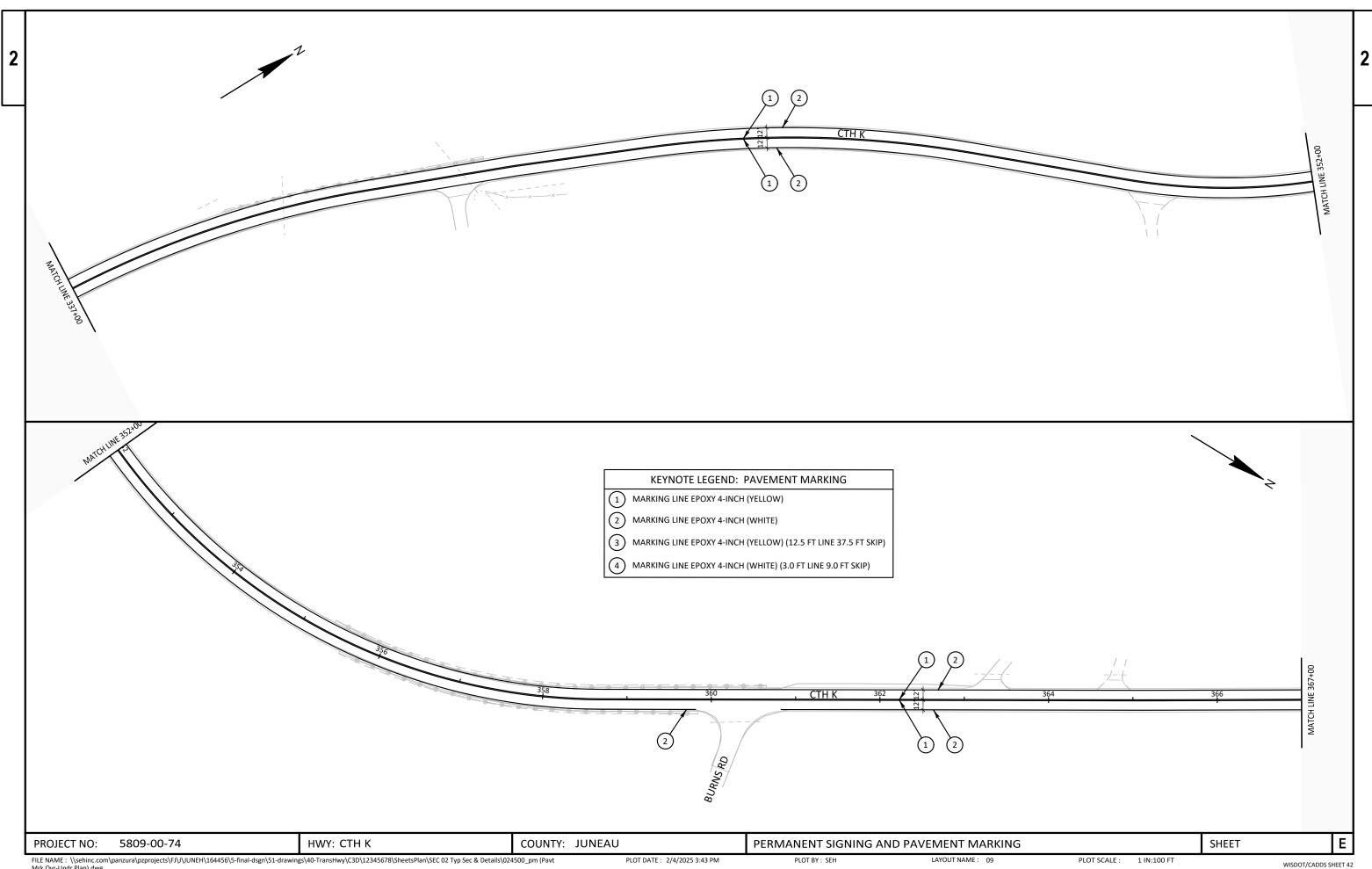


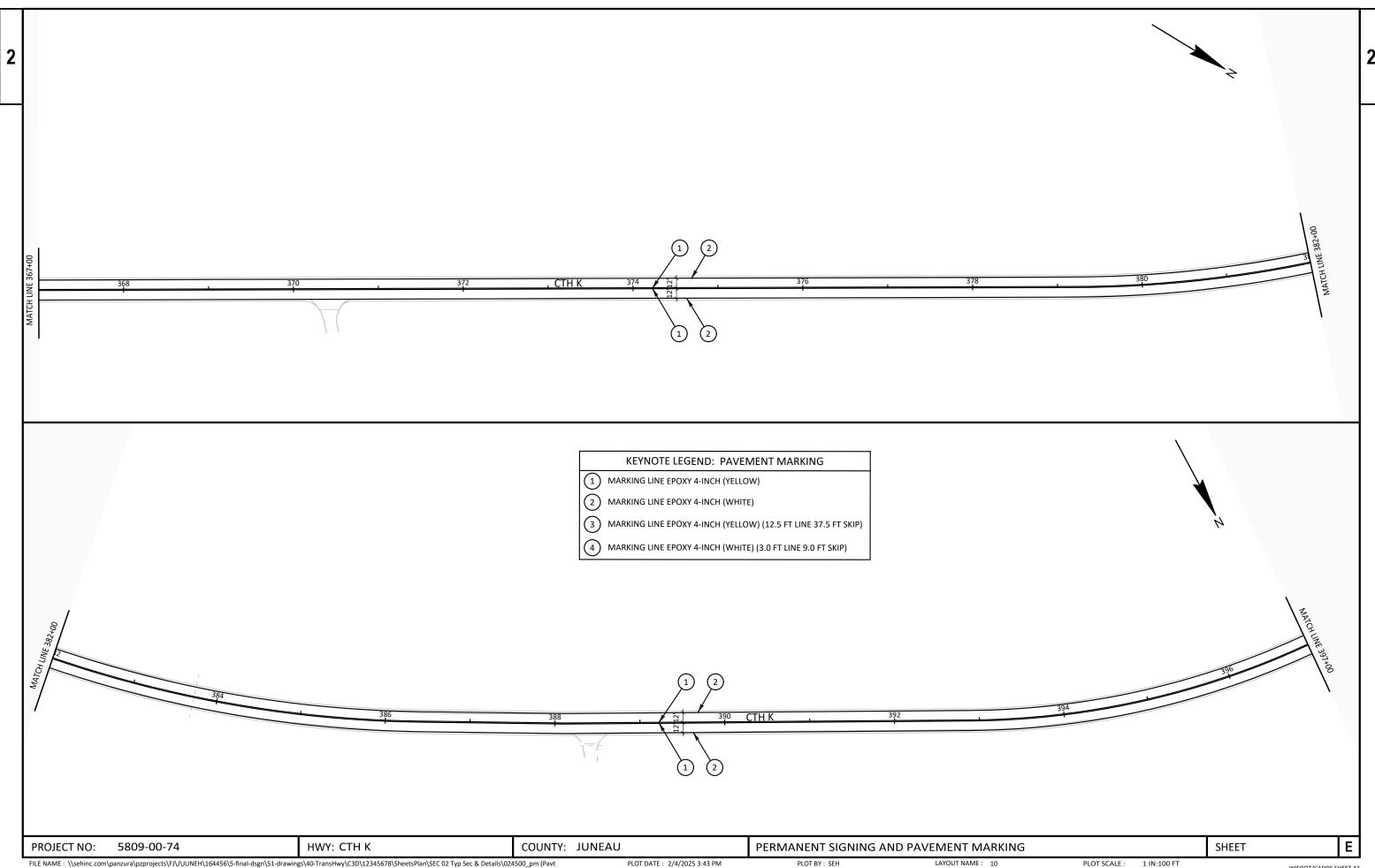


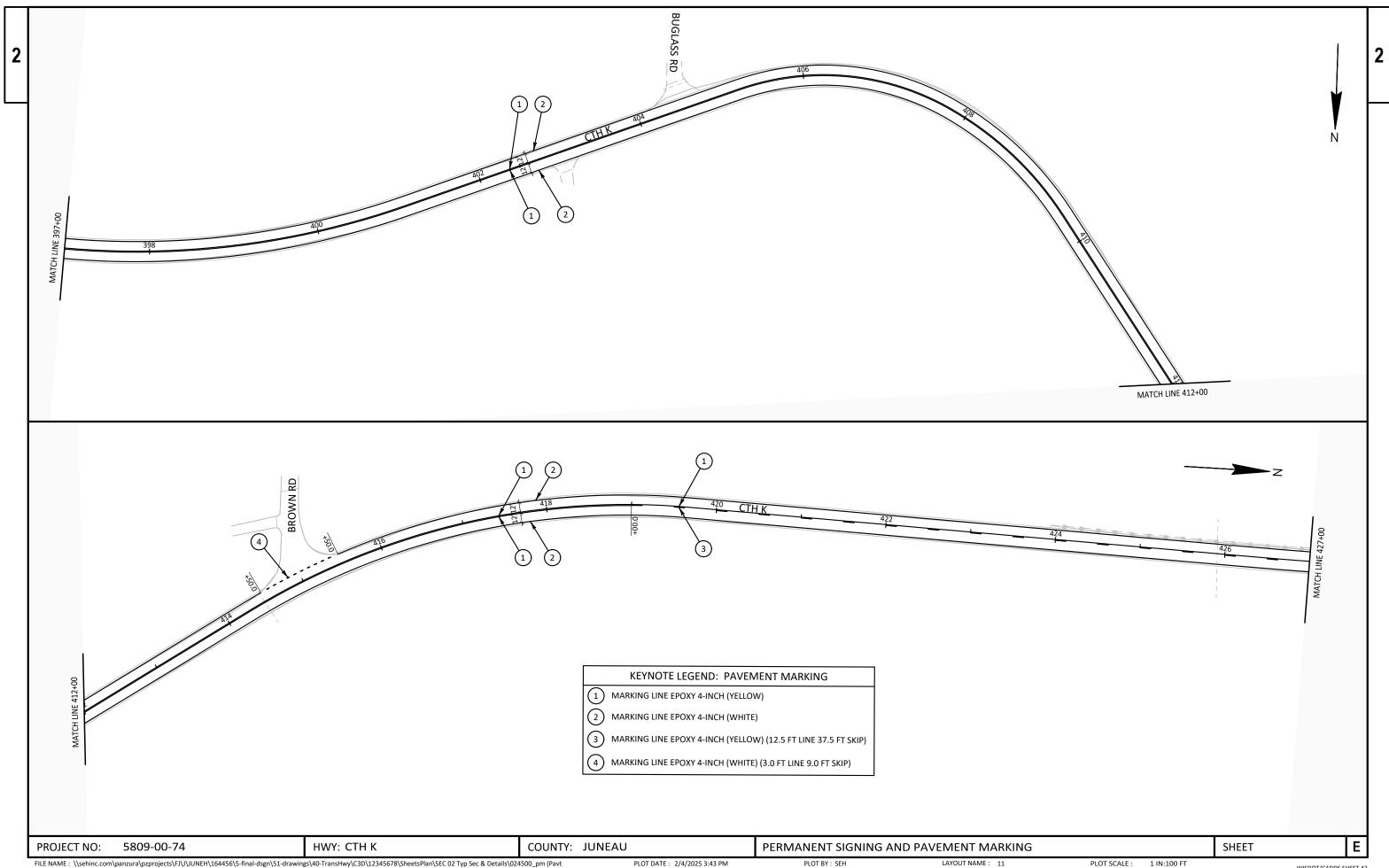


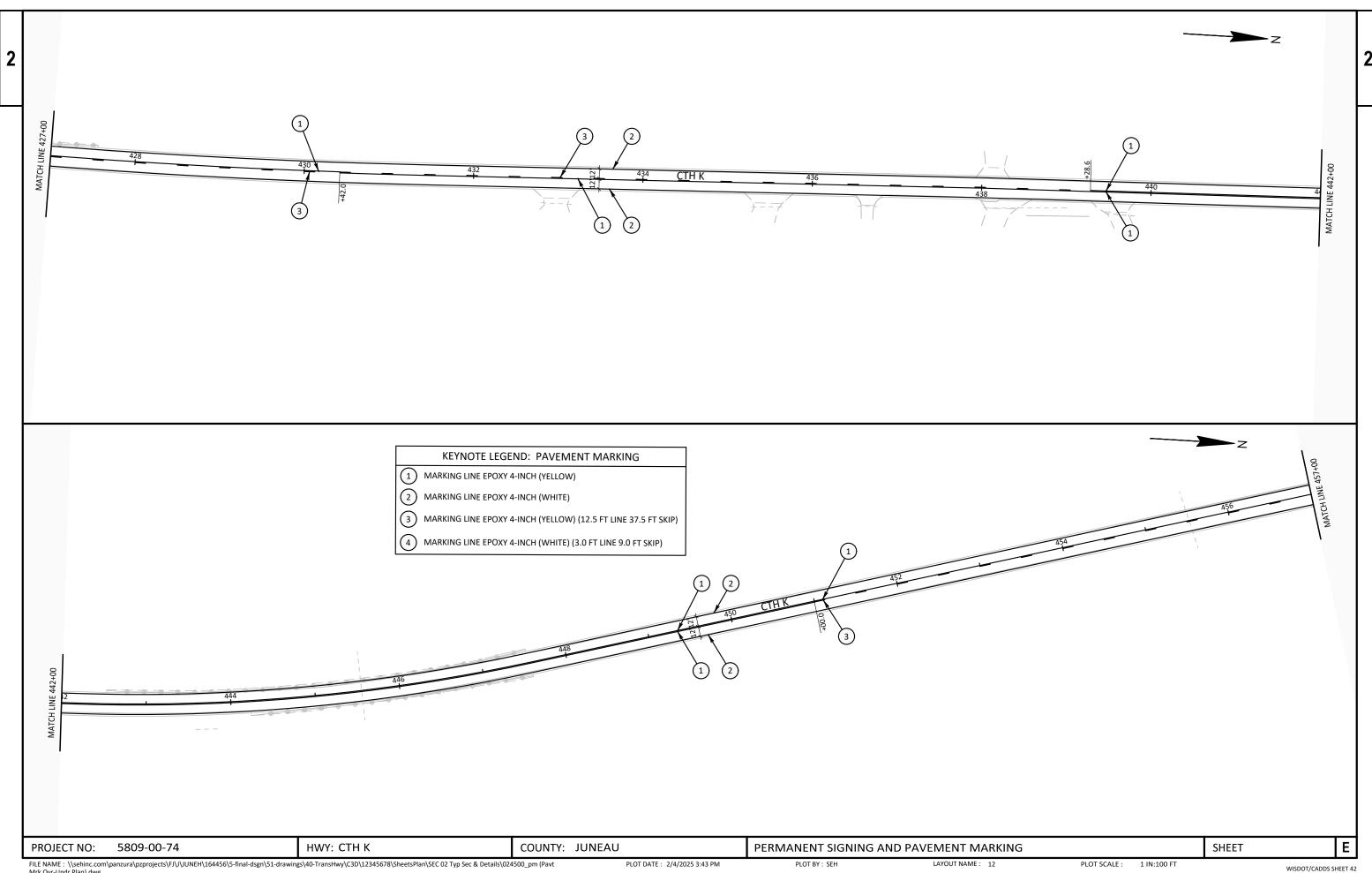


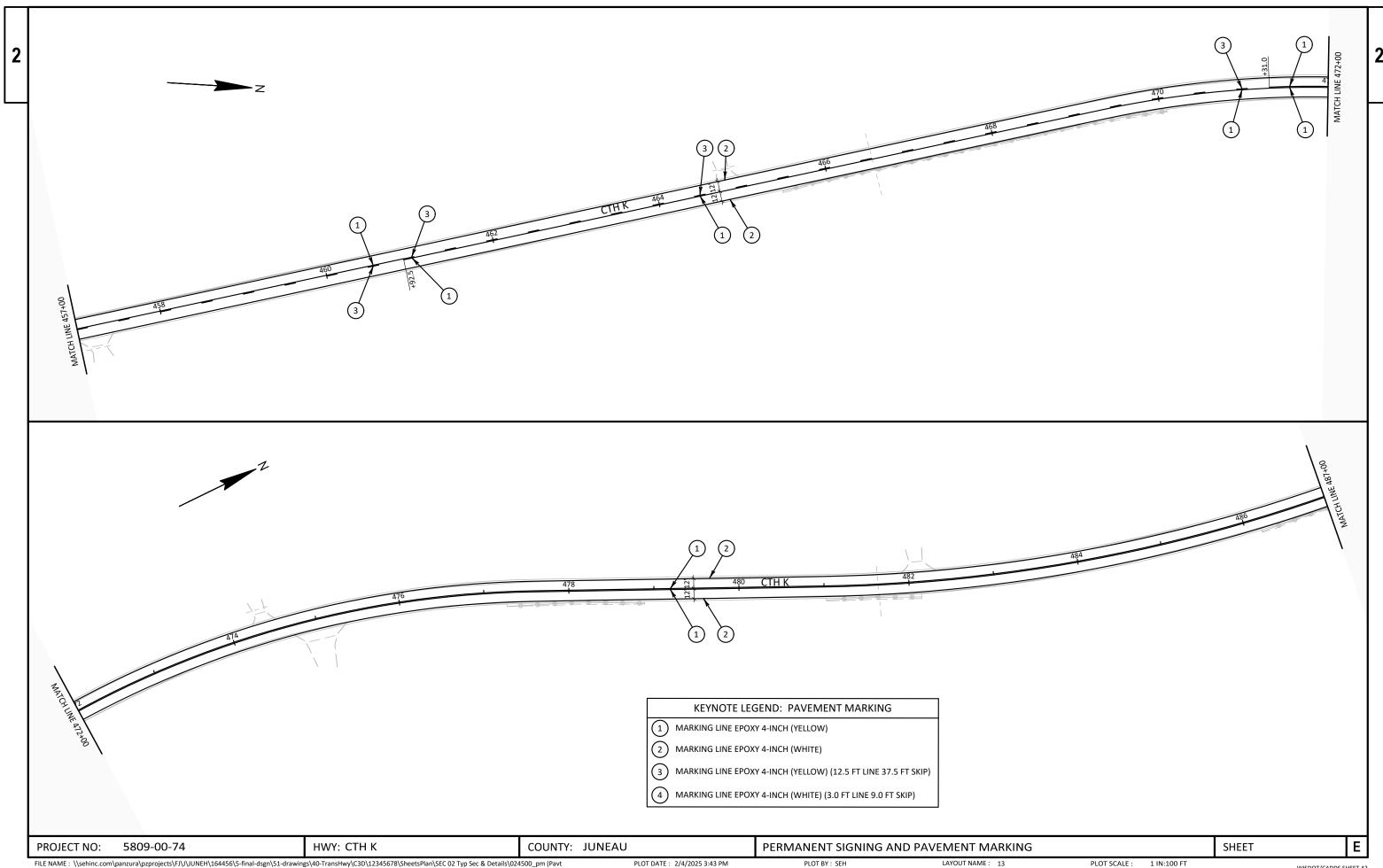


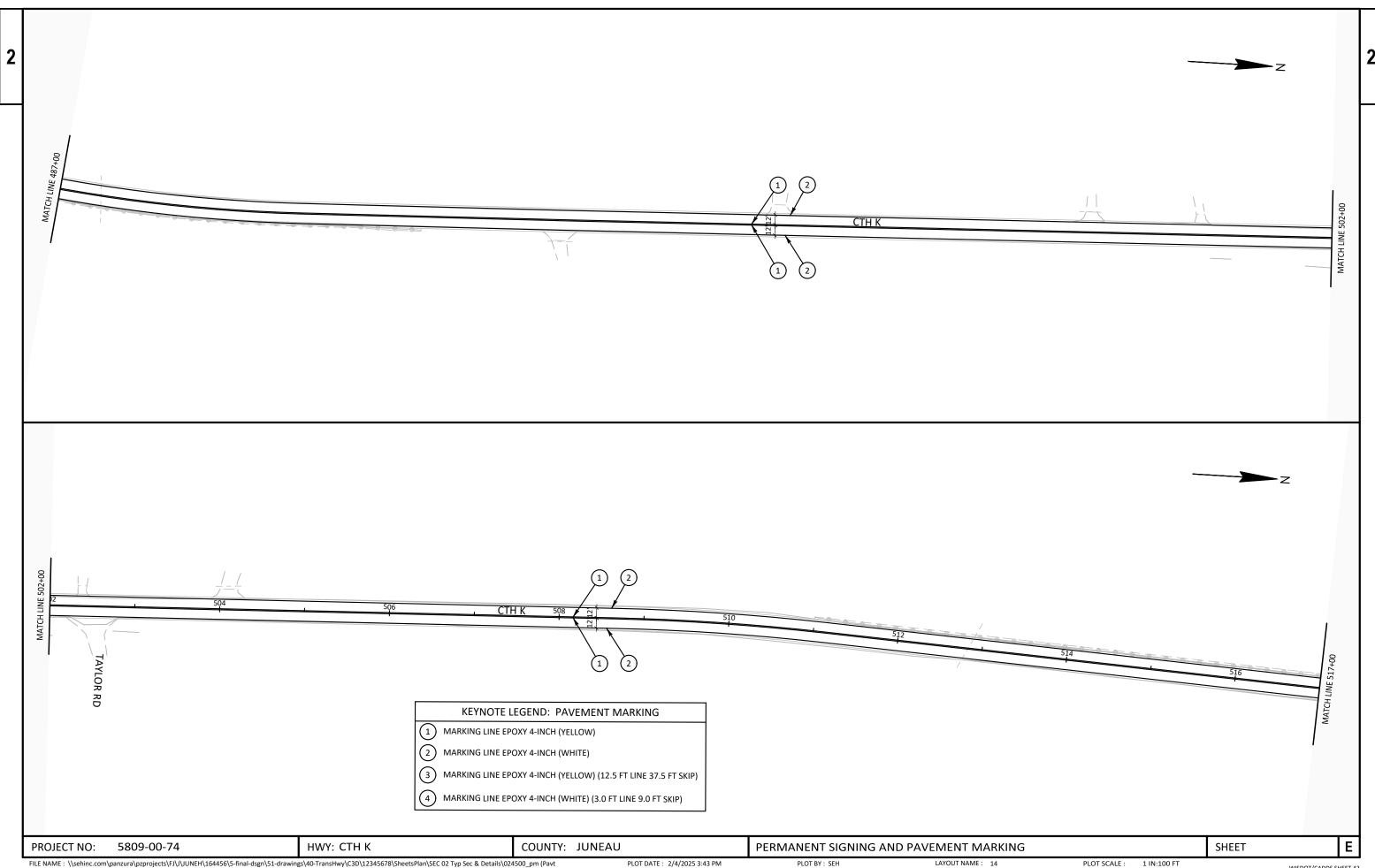


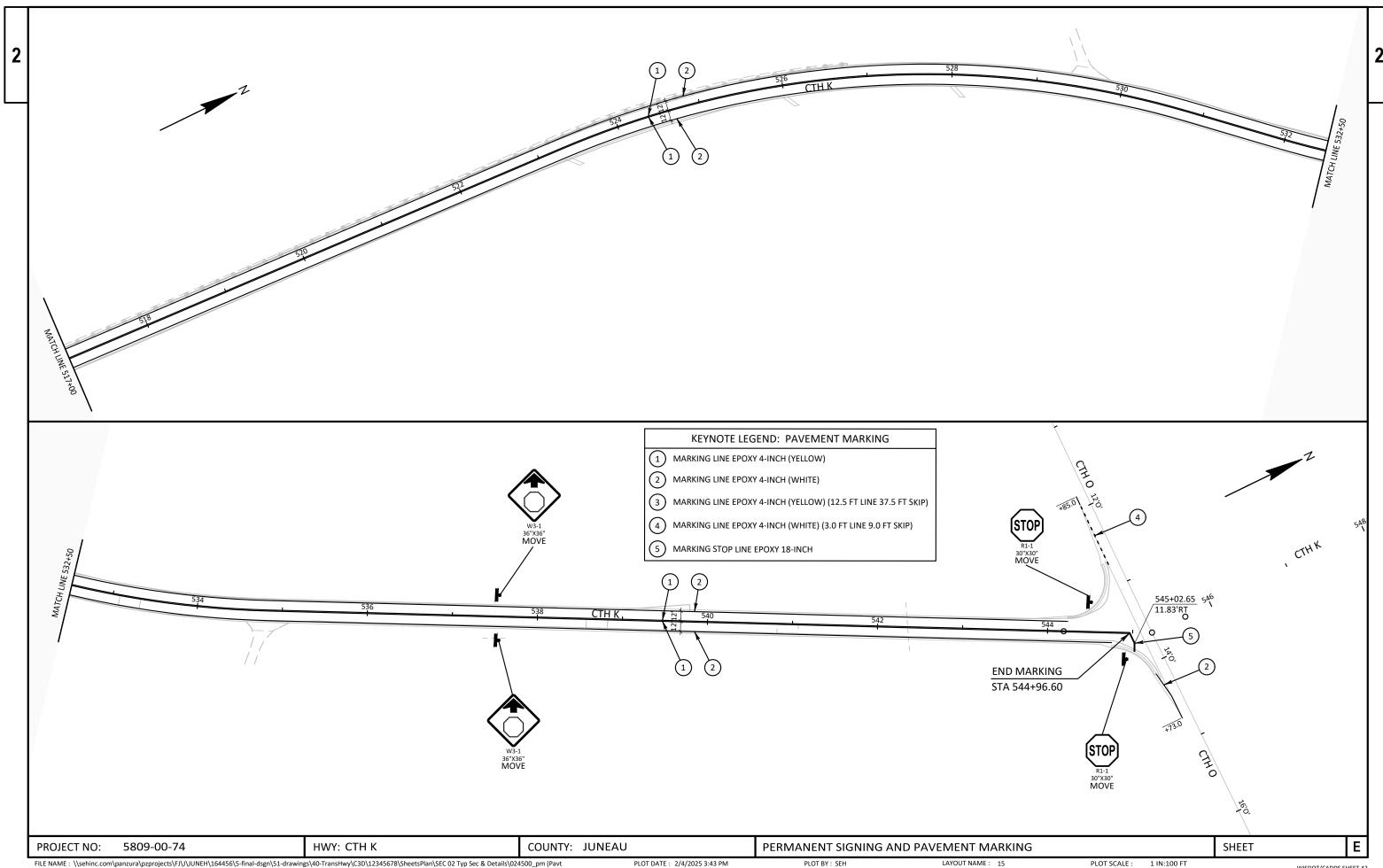


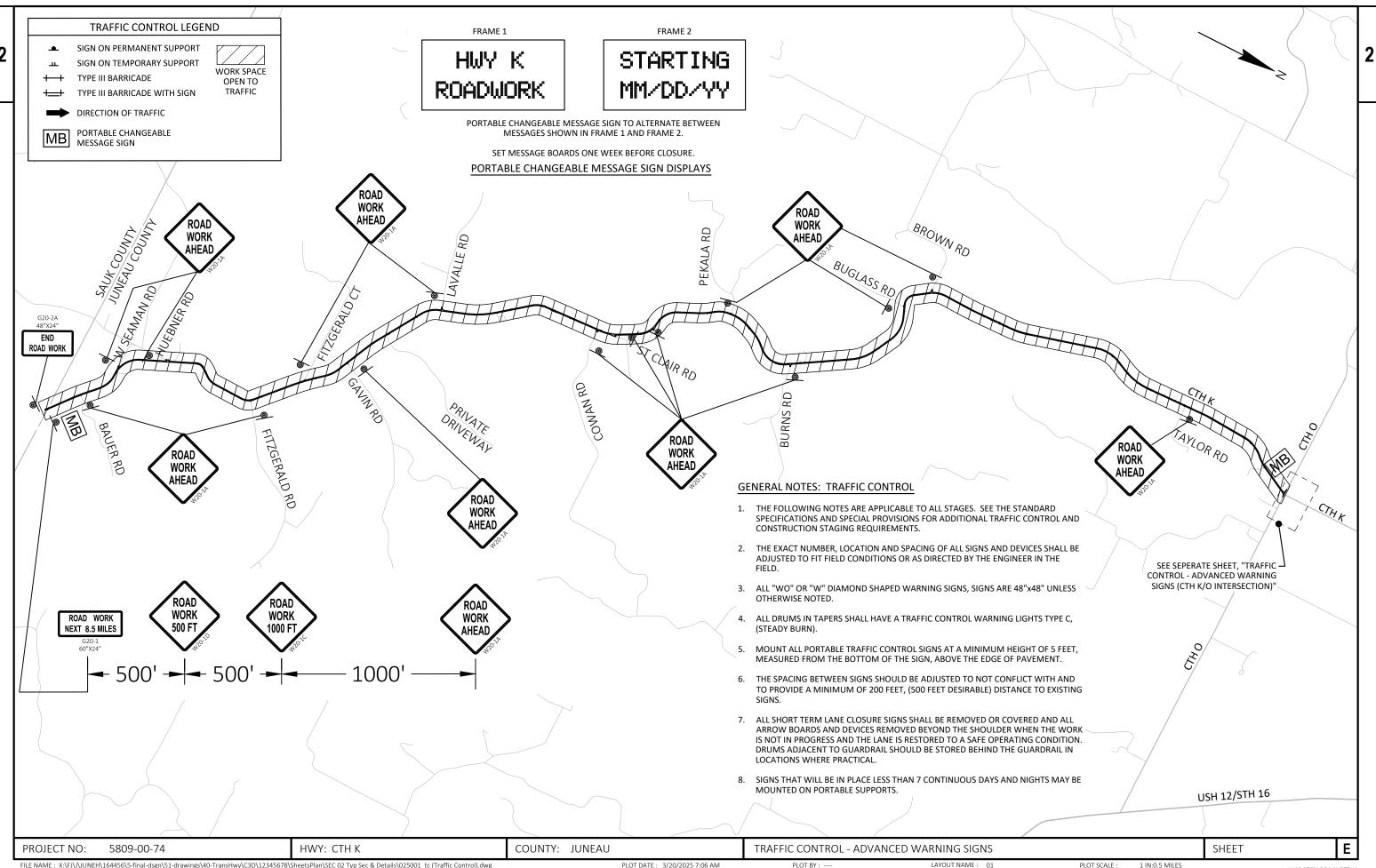


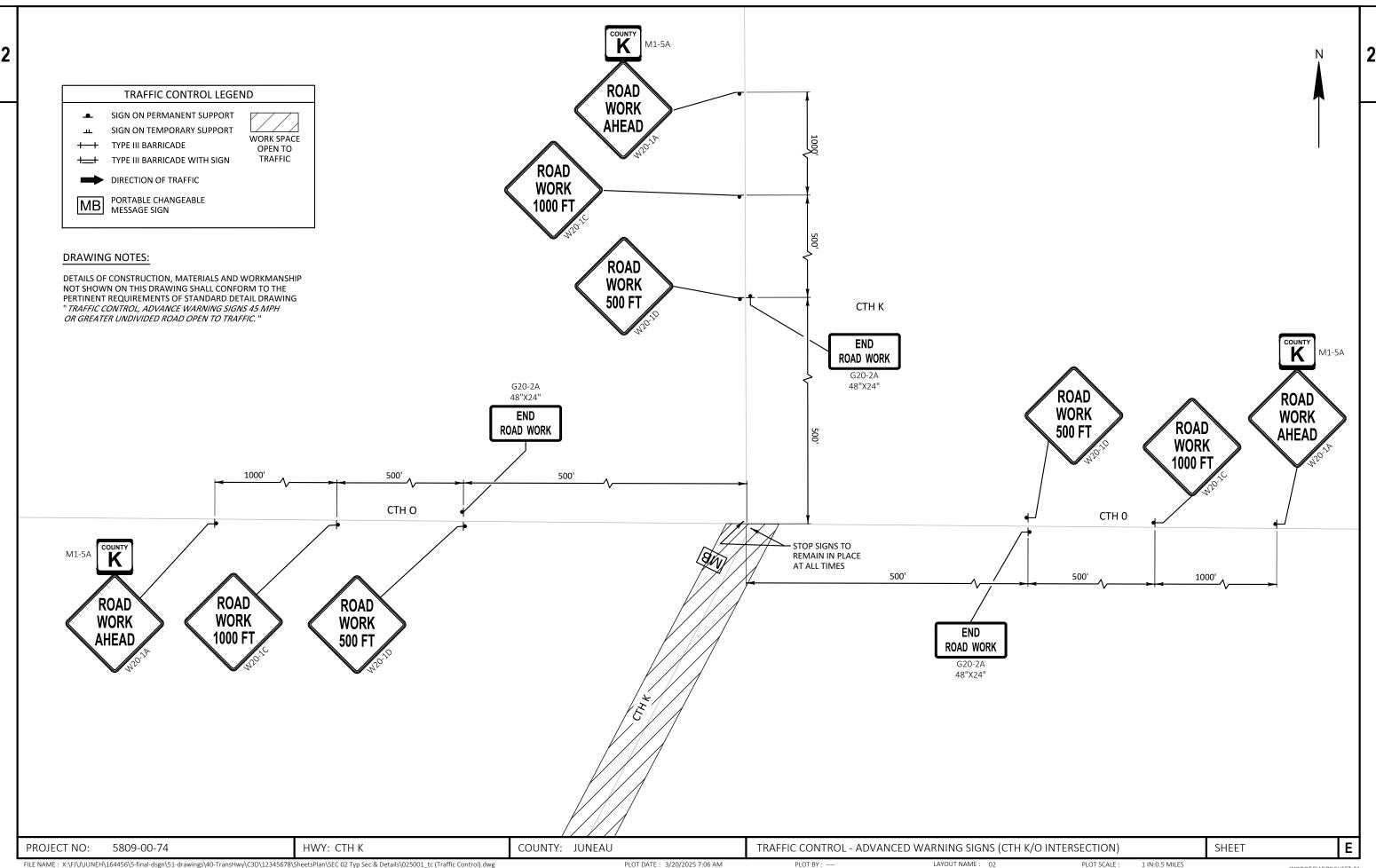


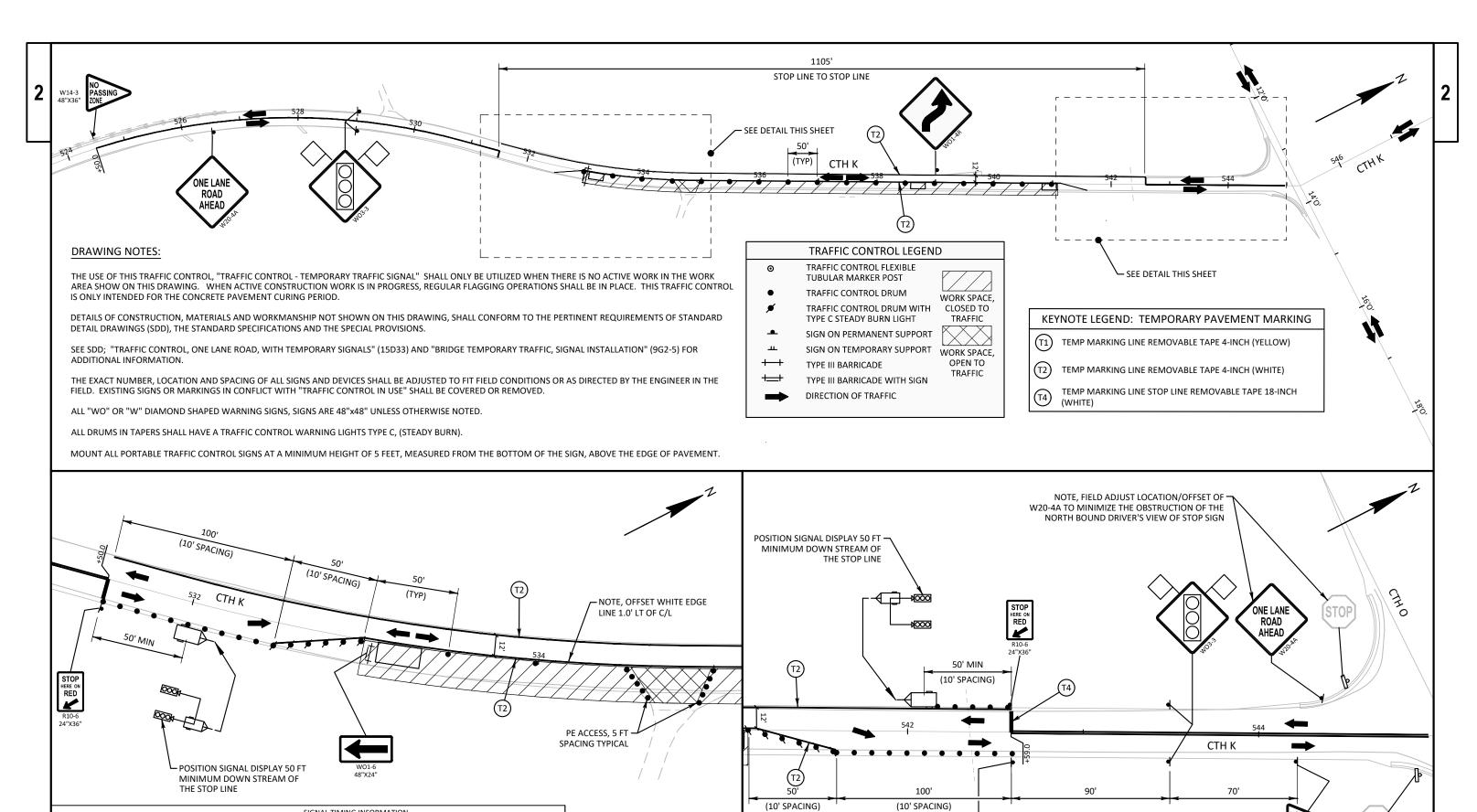












				SIGNAL TIMI	NG INFORMA	ATION			
		YELLOW		ALL RED		GREEN		TOTAL SPLIT	
LOCATION	STAGE#	Ф1	Ф2	Ф1	Ф2	Ф1	Ф2	Ф1	Ф2
		EB	WB	EB	WB	EB	WB	EB	WB
STA 532+00 - STA 542+09	1	2.8	2.8	30.4	30.4	11.8	11.8	45.0	45.0
			•	•	•			•	

PROJECT NO:

5809-00-74

NORTH BOUND DRIVER'S VIEW OF STOP SIGN TRAFFIC CONTROL - TEMPORARY TRAFFIC SIGNAL LAYOUT NAME: 01

HWY: CTH K

COUNTY: JUNEAU

NOTE, FIELD ADJUST LOCATION/OFFSET OF W14-3 TO MINIMIZE THE OBSTRUCTION OF THE

W14-3

SHEET

LF

DOL

459.000

31,595.000

459.000

31,595.000

3

				Estimate Of	Quantities
					5809-00-74
Line	Item	Item Description	Unit	Total	Qty
0002	204.0100	Removing Concrete Pavement	SY	93.000	93.000
0004	204.0110	Removing Asphaltic Surface	SY	480.000	480.000
0006	204.0115	Removing Asphaltic Surface Butt Joints	SY	1,751.000	1,751.000
8000	204.0120	Removing Asphaltic Surface Milling	SY	1,990.000	1,990.000
0010	205.0100	Excavation Common	CY	5,925.000	5,925.000
0012	211.0201	Prepare Foundation for Concrete Pavement (project) 01. 5809-00-74	EACH	1.000	1.000
0014	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	888.000	888.000
0016	213.0100	Finishing Roadway (project) 01. 5809-00-74	EACH	1.000	1.000
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,101.000	1,101.000
0020	325.0100	Pulverize and Relay	SY	150,070.000	150,070.000
0022	374.1020.S	QMP Pulverize and Relay Compaction	SY	150,070.000	150,070.000
0024	415.0090	Concrete Pavement 9-Inch	SY	93.000	93.000
0026	455.0605	Tack Coat	GAL	10,550.000	10,550.000
0028	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	2.000	2.000
0030	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0032	460.2005	Incentive Density PWL HMA Pavement	DOL	27,350.000	27,350.000
0034	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	17,770.000	17,770.000
0036	460.2010	Incentive Air Voids HMA Pavement	DOL	38,660.000	38,660.000
0038	460.6223	HMA Pavement 3 MT 58-28 S	TON	21,680.000	21,680.000
0040	460.6224	HMA Pavement 4 MT 58-28 S	TON	16,978.000	16,978.000
0042	460.9000.S	Material Transfer Vehicle	EACH	1.000	1.000
0044	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	40.000	40.000
0046	465.0315	Asphaltic Flumes	SY	23.000	23.000
0048	465.0560	Asphaltic Rumble Strips, Centerline	LF	38,605.000	38,605.000
0050	602.3280	Concrete Rumble Strips, Transverse	SY	100.000	100.000
0052	614.0400	Adjusting Steel Plate Beam Guard	LF	820.000	820.000
0054	618.0100	Maintenance and Repair of Haul Roads (project) 01. 5809-00-74	EACH	1.000	1.000
0056	619.1000	Mobilization	EACH	1.000	1.000
0058	624.0100	Water	MGAL	918.000	918.000
0060	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	2.000	2.000
0062	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	2.000	2.000
0064	638.2102	Moving Signs Type II	EACH	4.000	4.000
0066	642.5001	Field Office Type B	EACH	1.000	1.000
0068	643.0300	Traffic Control Drums	DAY	325.000	325.000
0070	643.0420	Traffic Control Barricades Type III	DAY	5.000	5.000
0072	643.0715	Traffic Control Warning Lights Type C	DAY	60.000	60.000
0074	643.0900	Traffic Control Signs	DAY	3,135.000	3,135.000
0076	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0078	643.3105	Temporary Marking Line Paint 4-Inch	LF	161,725.000	161,725.000
0080	643.3150	Temporary Marking Line Removable Tape 4-Inch	LF	3,896.000	3,896.000
0082	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	24.000	24.000
0084	643.5000	Traffic Control	EACH	1.000	1.000
0086	646.1020	Marking Line Epoxy 4-Inch	LF	165,910.000	165,910.000
0088	646.6120	Marking Stop Line Epoxy 18-Inch	LF	23.000	23.000
0090	648.0100	Locating No-Passing Zones	MI	8.400	8.400
0092	650.8000	Construction Staking Resurfacing Reference	LF	44,405.000	44,405.000
0094	650.9911	Construction Staking Supplemental Control (project) 01. 5809-00-74	EACH	1.000	1.000
0001	600.0011	Sawing Aenhalt	LF.COTT	450,000	450,000

Sawing Asphalt

Incentive IRI Ride

0096

0098

690.0150

740.0440

03/28/2025 12:18:39

Estimate Of Quantities
------------------------

5809-00-74 Qty Line Unit Item **Item Description** Total 0100 ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR HRS 2,400.000 2,400.000 0102 ASP.1T0G On-the-Job Training Graduate at \$5.00/HR HRS 2,160.000 2,160.000 CY SPV.0035 Special 01. Base Repair for Pulverized Asphalt Base Layer 500.000 500.000 0104 SPV.0060 Special 01. Temporary Traffic Signals EACH 1.000 1.000 0106 0108 SPV.0195 Special 01. Base Aggregate Dense 3/4-Inch Beam Guard TON 281.000 281.000

3

Page 2

0010 0010 0010 0010 0010	308+25 - 359 359+81 - 415 415+50 - 545 5809-00-74	+10 PROJ	T & RT T & RT  ECT TOTAL	738 1,746 5,925 WY: CTH K	_	PROJECT TOTAL  DUNTY: JUNEAU	1	MISCELLAN	0010  * SHOWN EL	415+50 - 545+ SEWHERE IN THE P	= PROJECT TOTAL	43,290 150,070	900 SHEET	
0010 0010 0010	359+81 - 415	+10	_T & RT	1,746		PROJECT TOTAL	1				= PROJECT TOTAL	43,290	260	
0010 0010 0010	359+81 - 415	+10	_T & RT	1,746		PROJECT TOTAL	1		0010	415+50 - 545+	_	43,290	260	
0010 0010 0010	359+81 - 415					PROJECT TOTAL	1		0010	415+50 - 545+	+10 LT & RT			
0010 0010 0010	359+81 - 415					PROJECT TOTAL	1		0010	415+50 - 545+	+10 LT & RT			
0010 0010								i				10,110	113	
0010	200±25 250.	+81 l	_T & RT	696		_			0010	359+81 - 415+	-50 LT & RT	19,140	115	
	241+15 - 308		_T & RT	899	0010	5809-00-74	1		0010	308+25 - 359+	+81 LT & RT	17,520	105	
0010	171+00 - 214		_T & RT	921					0010	241+15 - 308+	-25 LT & RT	22,680	136	
0010	126+50 - 171		_T & RT	582	<u>CATEGORY</u>	PROJECT	EACH		0010	171+00 - 214+	+15 LT & RT	23,700	142	
0010	101+05 - 126		_T & RT	343			211.0201		0010	126+50 - 171+	+00 LT & RT	15,380	92	
							<del>_</del>		0010	101+05 - 126+	-50 LT & RT	8,360	50	
CATEGORY	STATION	LC	CATION	CY		RETE PAVING (58)			CATEGORY	STATION	LOCATION	51	IVIOAL	
				205.0100	PRI	EPARE FOUNDATIO	ON FOR		CATEGORY	STATION	LOCATION	325.0100 SY	WATER MGAL	
		EXCAVATION TO THE PROPERTY OF	ON COMMON										624.0100*	
		FVCAVATIO	N. 60141401								PULVERIZE AND	RELAY		
Р	ROJECT TOTAL	<del></del>	93	480	1,751	1,990	=				VHERE IN THE PLAN	,		
0010 0010	540+94 545+10	RT CL	30 -	-	- 768	-	RUMBLE STRIPS CTH K			1	PROJECT TOTAL	1,101	281	18
0010	538+70 540+04	RT PT	31	-	-	-	RUMBLE STRIPS				DRIVEWAYS	220	-	3
0010	533+20	RT	32	-	-	-	RUMBLE STRIPS	0010	415+50 -	545+10	LT/RT	206	118	4
0010	436+66	RT	-	23	-	-	DRIVEWAY	0010	359+81 -	415+50	LT/RT	87	-	1
0010	415+20	LT	-	-	60	290	BROWN RD	0010	308+25 -	359+81	LT/RT	82	37	2
0010	370+42	RT	-	34	-	-	DRIVEWAY	0010	241+15 -	308+25	LT/RT	106	47	2
0010	363+32	LT	-	34	-	-	DRIVEWAY	0010	1/1700 -	∠± <del>4</del> ±13	DRIVEWAYS	194	<del>-</del>	2
0010	360+10	RT	-	-	58	188	BURNS RD	0010 0010	126+50 - 171+00 -	171+00 214+15	LT/RT LT/RT	66 99	42	2 1
0010	341+76	RT	-	41	-	-	DRIVEWAY	0010	101+05 -	126+50	LT/RT	41	37	1
0010	308+11	RT	-	<del>-</del>	70 60	290	ST CLAIR RD ST CLAIR RD	22/-	10: 05	106 - 5	/		2-	_
0010 0010	240+36 296+45	LT RT	-	<del>-</del>	64 70	311 390	LAVALLE RD ST CLAIR RD	CATEGORY	STATION TO	STATION	LOCATION	TON	TON	MGAL
0010	222+16	RT	-	33	-	- 211	DRIVEWAY					DENSE 3/4-INCH	BEAM GUARD	WATER
0010	206+32	RT	-	76	-	-	GAVIN RD					BASE AGGREGATE	DENSE 3/4-INCH	
0010	195+23	RT	-	30	-	-	DRIVEWAY						BASE AGGREGATE	
0010	193+95	RT	-	40	-	-	DRIVEWAY					305.0110	SPV.0195.01	624.0100
0010	191+98	LT	-	72	-	-	FITGERALD CT							
0010	147+07	RT	-	78	-	-	FITZGERALD RD				S.ISE MOUNTE			
0010	143+60	LT	- -	- -	92	278	HUEBNER RD				BASE AGGREGATE	ITEMS		
0010	115+87 128+58	LT LT	-		- 56	- 243	W SEAMAN RD							
0010 0010	101+05 115+87	CL LT	-	- 19	523 -	-	CTH K DRIVEWAY				. 1103201 101	500		
0010	101.05	CI			F22		CTUV				PROJECT TOT	AL 888		
CATEGORY	STATION	LOCATION	SY	SY	SY	SY	REMARKS		00	10 101+05 - 54	45+10 LT&RT	888		
			PAVEMENT	SURFACE	SURFACE BUTT JOINTS					40 404 == =	45 40 /=2	000		
			CONCRETE	ASPHALTIC	ASPHALTIC	ASPHALTIC SURFAC	E		CATE	GORY STATIO	N LOCATION	STA		
			REMOVING	REMOVING	REMOVING	REMOVING						211.0400		
			204.0100	204.0110	204.0115	204.0120				<u>. 13 </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
			<u> </u>	REMOVING PAVEM	<u>ENT</u>						ALTIC SHOULDERS	N.		
										DREDAR	E FOUNDATION FOI	D.		

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#### **CONCRETE PAVEMENT**

415.0090 CONCRETE PAVEMENT 9-INCH CATEGORY STATION OFFSET SY REMARKS 535+55 RT 31 PAVEMENT UNDER RUMBLE STRIPS 0010 0010 538+55 RT 31 PAVEMENT UNDER RUMBLE STRIPS 0010 540+80 RT 31 PAVEMENT UNDER RUMBLE STRIPS 93 PROJECT TOTAL

### **RUMBLE STRIPS**

CATEGORY	STATION	LOCATION	465.0560 ASPHALTIC RUMBLE STRIPS CENTERLINE LF	602.3280 CONCRETE RUMBLE STRIPS, TRANSVERSE SY
0010	101+05 - 126+50	CL	2,495	-
0010	126+50 - 171+00	CL	3,700	-
0010	171+00 - 214+15	CL	3,115	-
0010	214+15 - 308+25	CL	7,685	-
0010	308+25 - 359+81	CL	4,330	-
0010	359+81 - 415+50	CL	4,670	-
0010	415+50 - 545+10	CL	12,610	-
0010	535+55	RT	-	33.3
0010	538+55	RT	-	33.3
0010	540+80	RT	-	33.3
		PROJECT TOTAL	38,605	100.0

#### **ASPHALTIC PAVEMENT**

CATEGORY S	STATION TO	STATION	LOCATION	455.0605 TACK COAT GAL	460.0105.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP VOLUMETRICS EACH	460.0110.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP DENSITY EACH	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	SPV.0035.01 BASE REPAIR FOR PULVERIZED ASPHALT BASE LAYER CY	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0315 ASPHALTIC FLUMES SY
0010	101+05 -	126+50		590	_	_	1,209	946	30	-	-
	126+50 -	171+00		1,090	_	_	2,238	1,754	50	-	_
	171+00 -	214+15		1,670	_	-	3,427	2,685	80	-	-
			DRIVEWAYS	-	-	-	-	-	=	40	-
0010	241+15 -	308+25		1,600	-	-	3,285	2,573	80	-	-
0010	308+25 -	359+81		1,230	-	-	2,526	1,978	60	-	-
0010	359+81 -	415+50		1,340	-	-	2,760	2,162	60	-	-
0010	415+50 -	545+10		3,030	-	-	6,235	4,880	140	-	23
			PROJECT	-	2	2	-	-	-	-	-
PROJECT TOT	TAL			10,550	2	2	21,680	16,978	500	40	23

NOTE: TACK COAT REQUIRED PRIOR TO PAVING OVER MILLED SURFACE. CALCULATIONS BASED ON APPLICATION RATE OF 0.07 GAL/SY. HMA PAVEMENT WEIGHT CALCULATIONS BASED ON UNIT WEIGHT OF 112 LB/SY/INCH.

PROJECT NO: 5809-00-74 HWY: CTH K COUNTY: JUNEAU MISCELLANEOUS QUANTITIES SHEET PLOT NAME :

# 3

# **PWL MIXTURE USE TABLE**

DESCRIPTION	STATION - STATION	MIXTURE USE	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE
22-FOOT DRIVING LANE	101+05 - 545+10	UPPER LAYER	3 MT 58-28 S	4 MT 58-28 S	12,157	2.0"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT460.2005
22-FOOT DRIVING LANE	101+05 - 545+10	LOWER LAYER	PULVERIZE AND RELAY	3 MT 58-28 S	15,197	2.5"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT460.2005
3-FOOT PAVED SHOULDERS	101+05 - 545+10	UPPER LAYER	3 MT 58-28 S	4 MT 58-28 S	3,315	2.0"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELGIBLE FOR INCENTIVE
3-FOOT PAVED SHOULDERS	101+05 - 545+10	LOWER LAYER	PULVERIZE AND RELAY	3 MT 58-28 S	4,145	2.5"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELGIBLE FOR INCENTIVE
INTERSECTIONS	101+05 - 545+10	LOWER LAYER	MILLED EXISTING HMA SURFACE	3 MT 58-28 S	2,338	2.5"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELGIBLE FOR INCENTIVE
INTERSECTIONS	101+05 - 545+10	UPPER LAYER	3 MT 58-28 S	4 MT 58-28 S	1,506	2.0"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELGIBLE FOR INCENTIVE

# **GUARDRAIL ITEMS**

614.0400

ADJUSTING

STEEL PLATE

BEAM GUARD

CATEGORY STATION TO STATION LOCATION LF REMARKS

0010 UNDISTRIBUTED LT&RT 820 -

PROJECT TOTAL 820

### MOVING SIGNS - TYPE II

						634.0614 POSTS	634.0616 POSTS	638.2102
						WOOD 4X6-	WOOD 4X6-	MOVING SIGNS
	SIGN	SIGN	SIZ	ZE		INCH X 14-	INCH X 16-	TYPE II
CATEGORY	NUMBER	CODE	(INCH)	(INCH)	MESSAGE	EACH	EACH	EACH
0010	01-01M	W/3-1	36	36	STOP	_	1	1
0010	01 01		00	00	AHEAD		_	<u> </u>
0010	01-02M	W3-1	36	36	STOP	_	1	1
0010	01 02		00	00	AHEAD		_	<u> </u>
0010	01-03M	R1-1	30	30	STOP	1	-	1
0010	01-04M	R1-1	30	30	STOP	1	-	1
				PRO.	JECT TOTAL	2	2	4
	0010 0010 0010	CATEGORY       NUMBER         0010       01-01M         0010       01-02M         0010       01-03M	CATEGORY NUMBER         CODE           0010         01-01M         W3-1           0010         01-02M         W3-1           0010         01-03M         R1-1	CATEGORY NUMBER         CODE         (INCH)           0010         01-01M         W3-1         36           0010         01-02M         W3-1         36           0010         01-03M         R1-1         30	CATEGORY NUMBER         CODE         (INCH) (INCH)           0010         01-01M         W3-1         36         36           0010         01-02M         W3-1         36         36           0010         01-03M         R1-1         30         30           0010         01-04M         R1-1         30         30	CATEGORY NUMBER         CODE         (INCH) (INCH)         MESSAGE           0010         01-01M         W3-1         36         36         STOP AHEAD           0010         01-02M         W3-1         36         36         STOP AHEAD           0010         01-03M         R1-1         30         30         STOP	SIGN   SIGN   SIZE   STOP   CODE   STOP   STOP   CODE   STOP   CODE	SIGN   SIGN   SIZE   STOP   STOP

PROJECT NO: 5809-00-74 HWY: CTH K COUNTY: JUNEAU MISCELLANEOUS QUANTITIES SHEET **E** 

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# PAVEMENT MARKING

					TEMPORA	43.3105 RY MARKING LINE INT 4-INCH		6 MA EPC	646.6120 MARKING STOP LINE	648.0100 LOCATING NO-PASSING		
					(YELLOW, SOLID)	(YELLOW, 12.5-FT SKIPS)	(WHITE, SOLID) (	WHITE, 3-FT SKIPS)	(YELLOW, SOLID)	(YELLOW, 12.5-FT SKIPS)	EPOXY 18-INCH	ZONES
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	LF	LF	LF	LF	LF	MI
0010	101+05	-	126+50	LT&RT	10,184	-	5,048	-	5,092	-	-	-
0010	126+50	-	171+00	LT&RT	17,800	-	8,590	78	8,900	-	-	-
0010	171+00	-	214+15	LT&RT	19,202	1604	10,938	21	9,601	802	-	-
0010	241+15	-	308+25	LT&RT	23,434	855	13,247	42	11,717	427.5	-	-
0010	308+25	-	359+81	LT&RT	20,640	-	10,188	30	10,320	-	-	-
0010	359+81	-	415+50	LT&RT	22,280	-	10,938	21	11,140	-	-	-
0010	415+50	-	545+10	LT&RT	43,696	2,030	25,818	-	21,848	1,015	23	-
0010	11+85	-	14+75	CTH O	-	-	70	18	-	-	-	-
0010				PROJECT	-	-	-	-	-	-	-	8.4
				TOTAL	157,236	4,489	84,837	210	78,618	2,245		
			Р	ROJECT TOTAL	-	161,725		165,910				8.4

# TEMPORARY PAVEMENT MARKING

CATEGORY	STATION	LOCATION	643.3150 TEMPORARY MARKING LINE REMOVEABLE TAPE 4-INCH LF	643.3850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF	REMARKS
0010	524+50 - 531+50	CL	1,400	_	_
0010	531+50 - 542+59	LT&RT	2,020	24	-
0010	542+59 - 544+97	CL	476	-	-
		PROJECT TOTAL	3,896	24	

# TRAFFIC CONTROL ITEMS

			643	.0300	643	.0420	643.0 TRAFFIC (		6	43.0900		643.1050	
		APPROX. SERVICE		CONTROL		CONTROL DES TYPE III	WARNING TYP		TRAFF	FIC CONTRO SIGNS		AFFIC CONTROL SIGNS PCMS	
CATEGORY	PROJECT LOCATION	PERIOD DAYS	QTY.	DAY	QTY.	DAY	QTY.	DAY	QTY.	DAY	QTY.	DAY	REMARKS
0010	PRE-WARNING	7	0	-	0	-	0	-	0	-	2	14	PRE-WARN PRIOR TO CONSTRUCTION START
0010	ENTIRE PROJECT	88	0	-	0	-	0	-	35	3,080	0	-	-
0010	TEMPORARY TRAFFIC SIGNAL	5	65	325	1	5	12	60	11	55	0	-	<del>-</del>
		PROJECT TOTAL		325	-	5		60		3,135		14	

SHEET HWY: CTH K COUNTY: JUNEAU MISCELLANEOUS QUANTITIES PROJECT NO: 5809-00-74 PLOT NAME :

# 3

# **CONSTRUCTION STAKING**

650.9911 650.8000 SUPPLEMENTAL RESURFACING CONTROL REFERENCE (5809-00-74) CATEGORY LOCATION LF EACH 0010 PROJECT 44,405 1 44,405 PROJECT TOTAL

# TEMPORARY TRAFFIC SIGNALS

SPV.0060.01 SPECIAL (01. TEMPORARY TRAFFIC SIGNALS)

	ITIC SIGNALS)
CATEGORY STATION TO STATION LOCATION	EACH
0010 531+58 - 542+57 LT&RT	1

PROJECT TOTAL

1

## SAWING ASPHALT

690.0150 ASPHALT

CATEGORY STA	TION LOC	ATION	LF	REMARKS
0010 101	1+05	CL	24	CTH K
0010 115	5+87	LT	12	DRIVEWAY
0010 128	3+58	LT	20	W SEAMAN RD
0010 143	3+60	LT	23	HUEBNER RD
0010 193	3+95	RT	18	DRIVEWAY
0010 195	5+23	RT	17	DRIVEWAY
0010 222	2+16	RT	12	DRIVEWAY
0010 240	)+36	LT	23	LAVALLE RD
0010 296	5+45	RT	26	ST CLAIR RD
0010 308	3+11	RT	21	ST CLAIR RD
0010 341	L+76	RT	15	DRIVEWAY
0010 360	)+10	RT	20	BURNS RD
0010 363	3+32	LT	13	DRIVEWAY
0010 370	)+42	RT	14	DRIVEWAY
0010 415	5+03	LT	14	DRIVEWAY
0010 415	5+20	LT	21	BROWN RD
0010 436	5+66	RT	14	DRIVEWAY
0010 545	5+10	CL	152 C	TH O INTERSECTION

PROJECT TOTAL 459

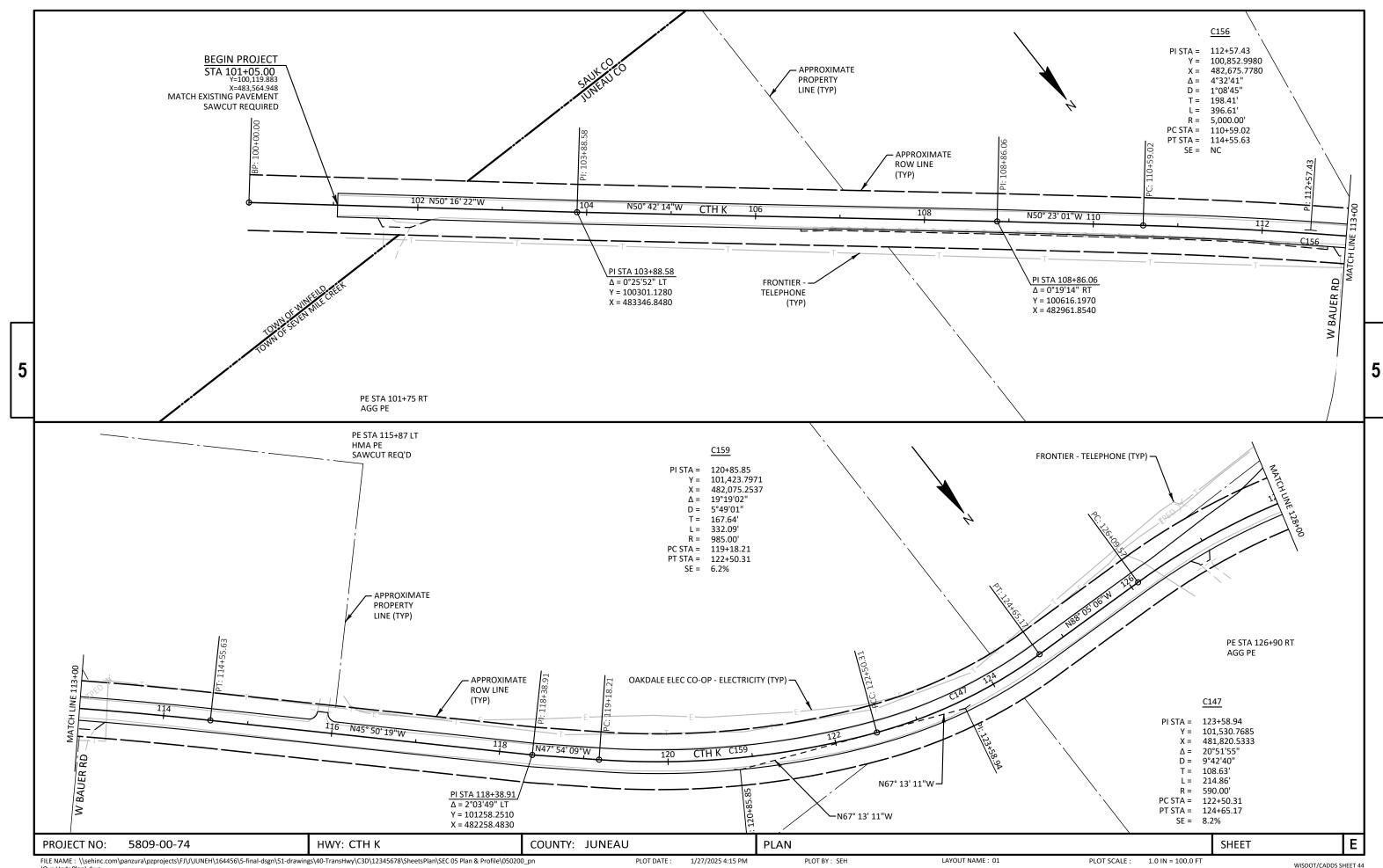
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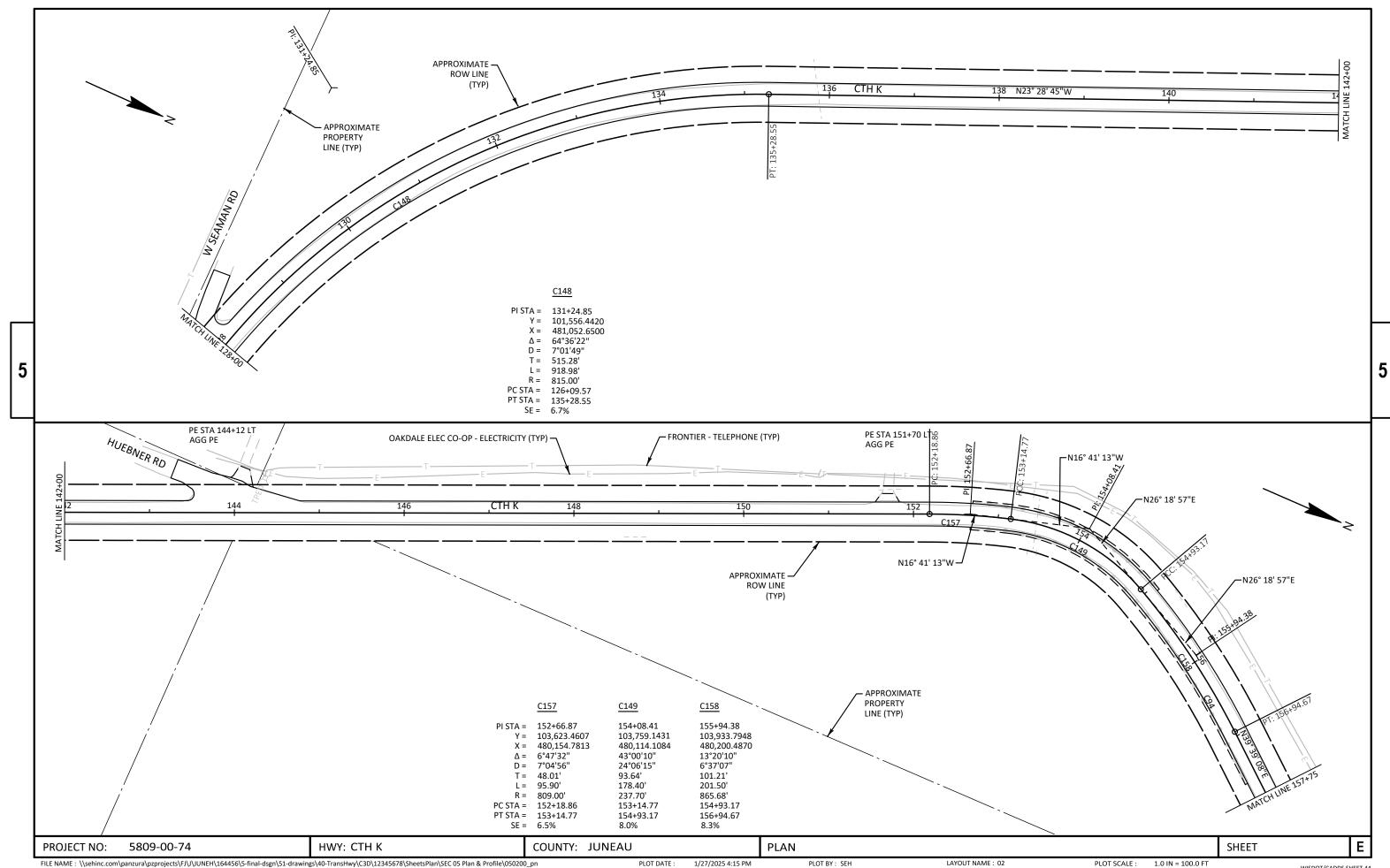
PROJECT NO: 5809-00-74 HWY: CTH K COUNTY: JUNEAU MISCELLANEOUS QUANTITIES SHEET **E** 

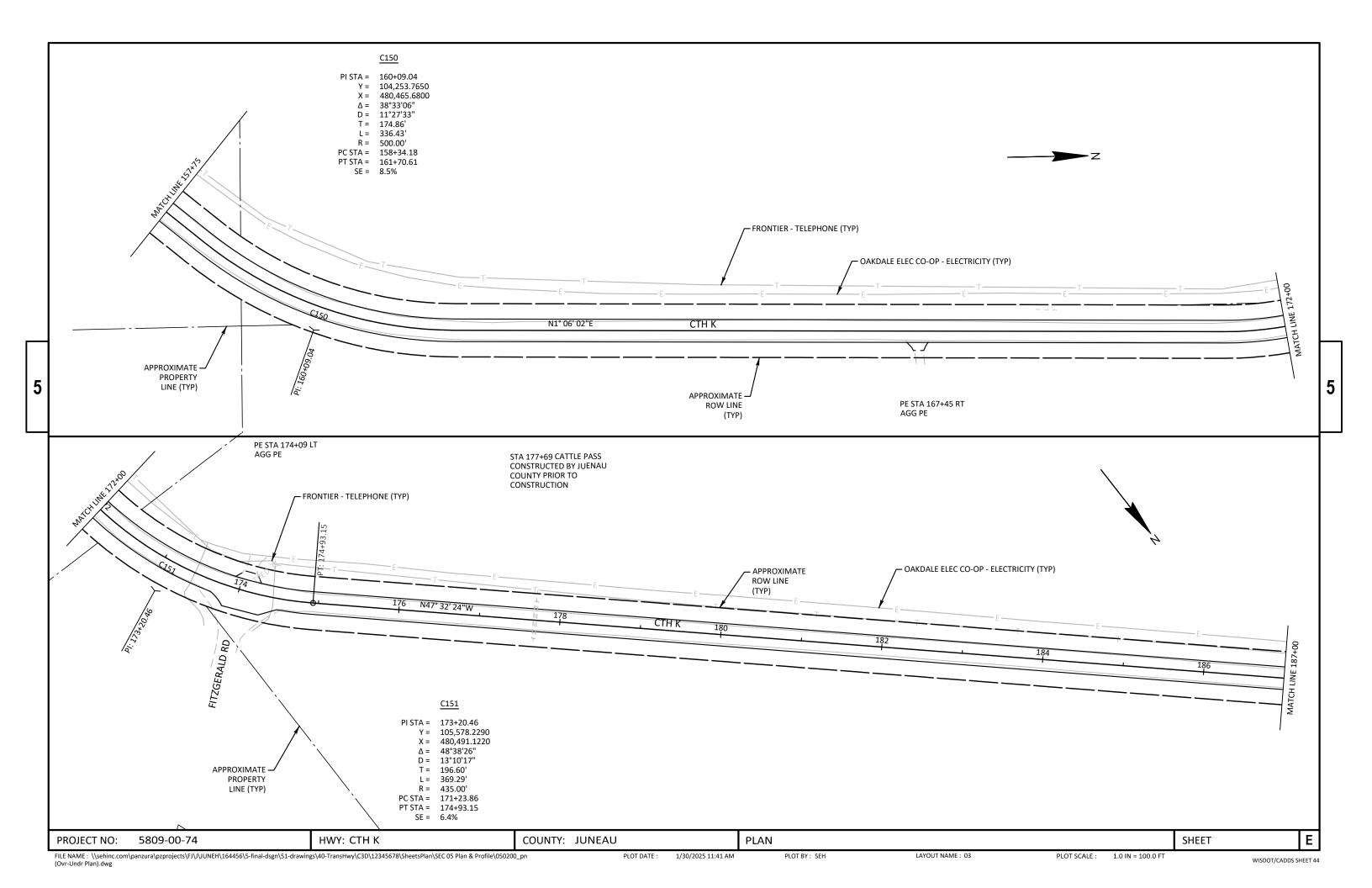
FILE NAME: \SEHINC.COM\PANZURA\PZPROJECTS\FJ\\JUNEH\164456\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\C3D\12345678\SHEETSPLAN\SEC 03 MISC QTYS\030201-MQ (MISC QTYS).DWG PLOT DATE:

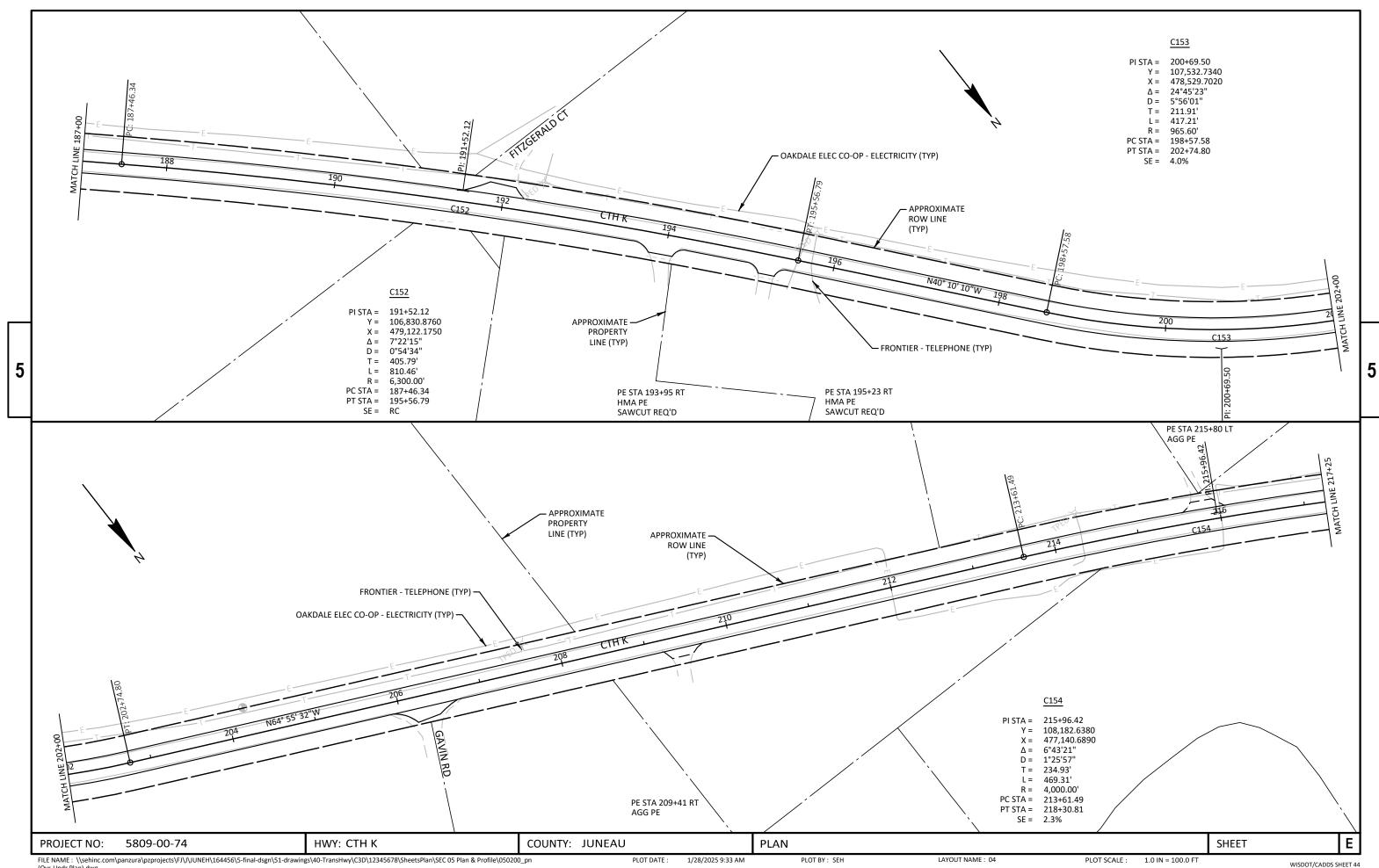
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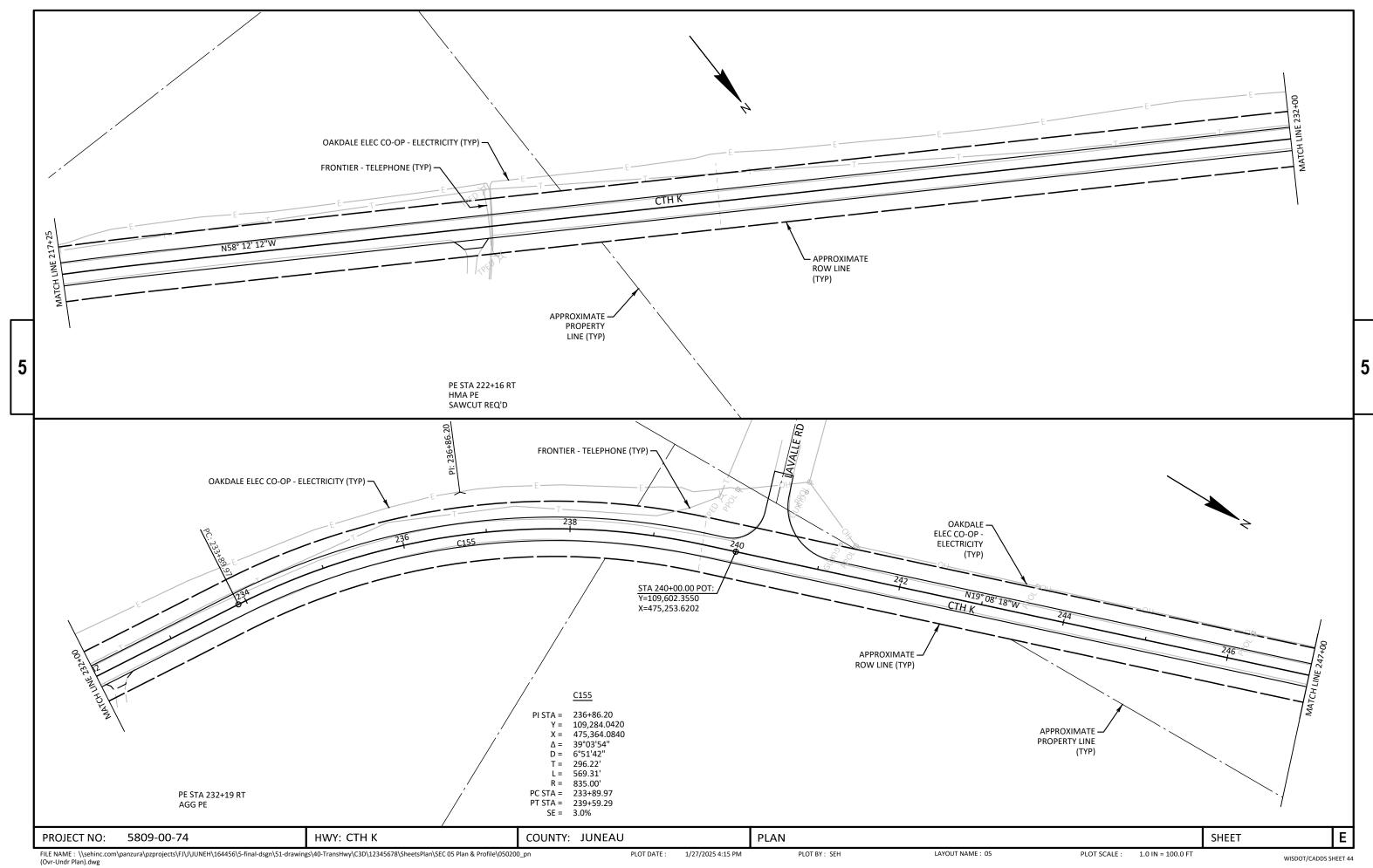
PLOT BY: SEH

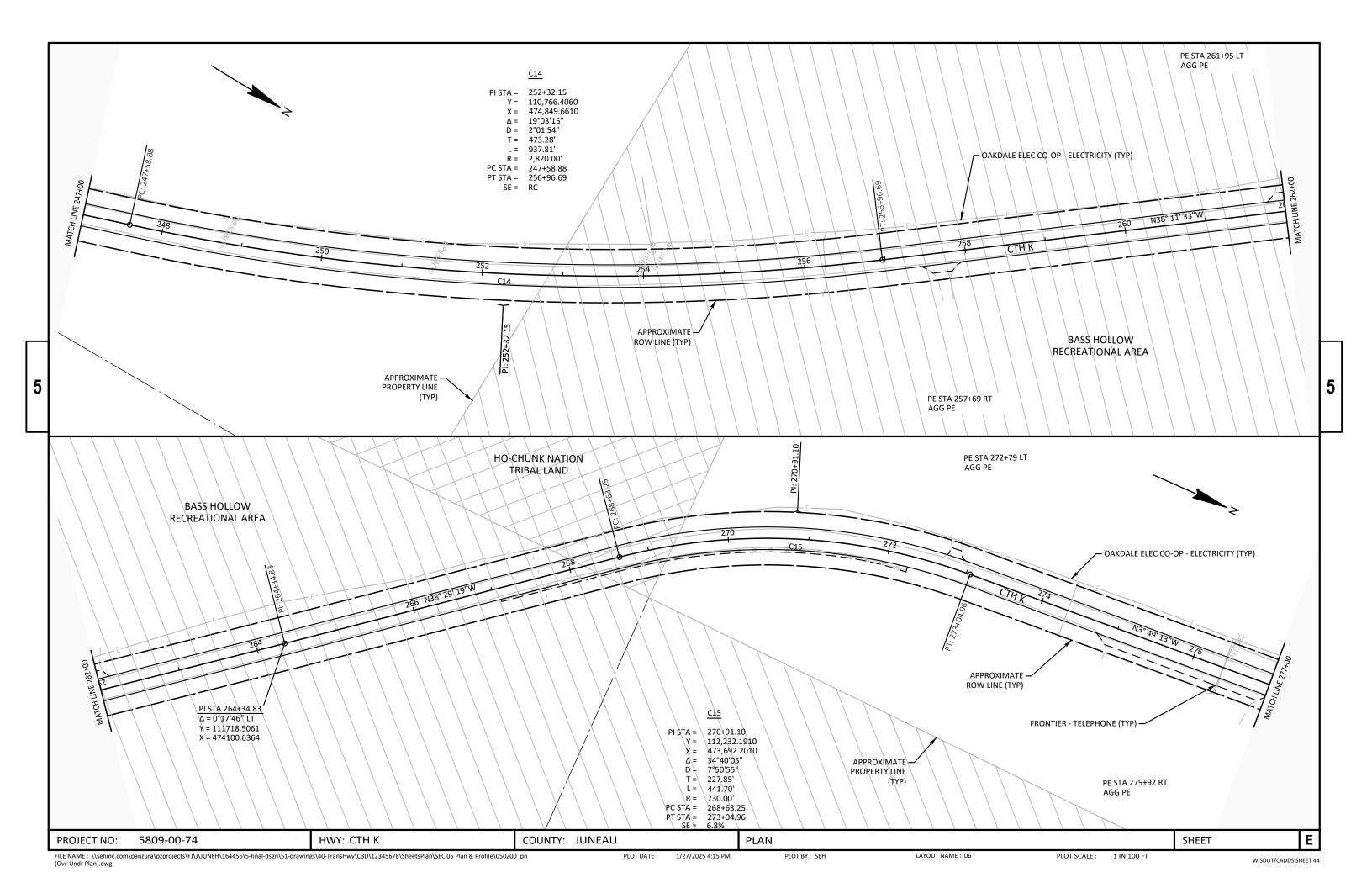


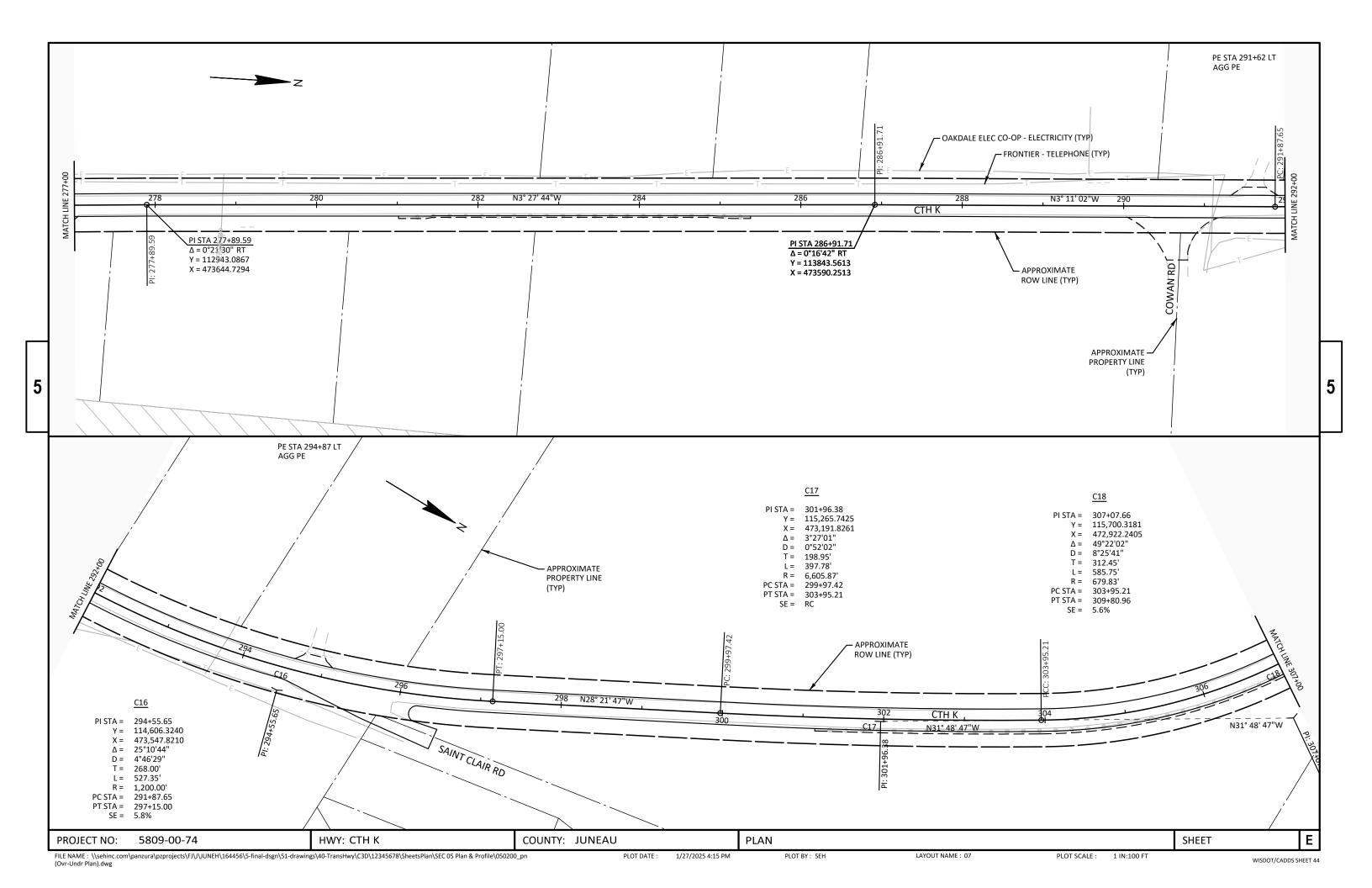


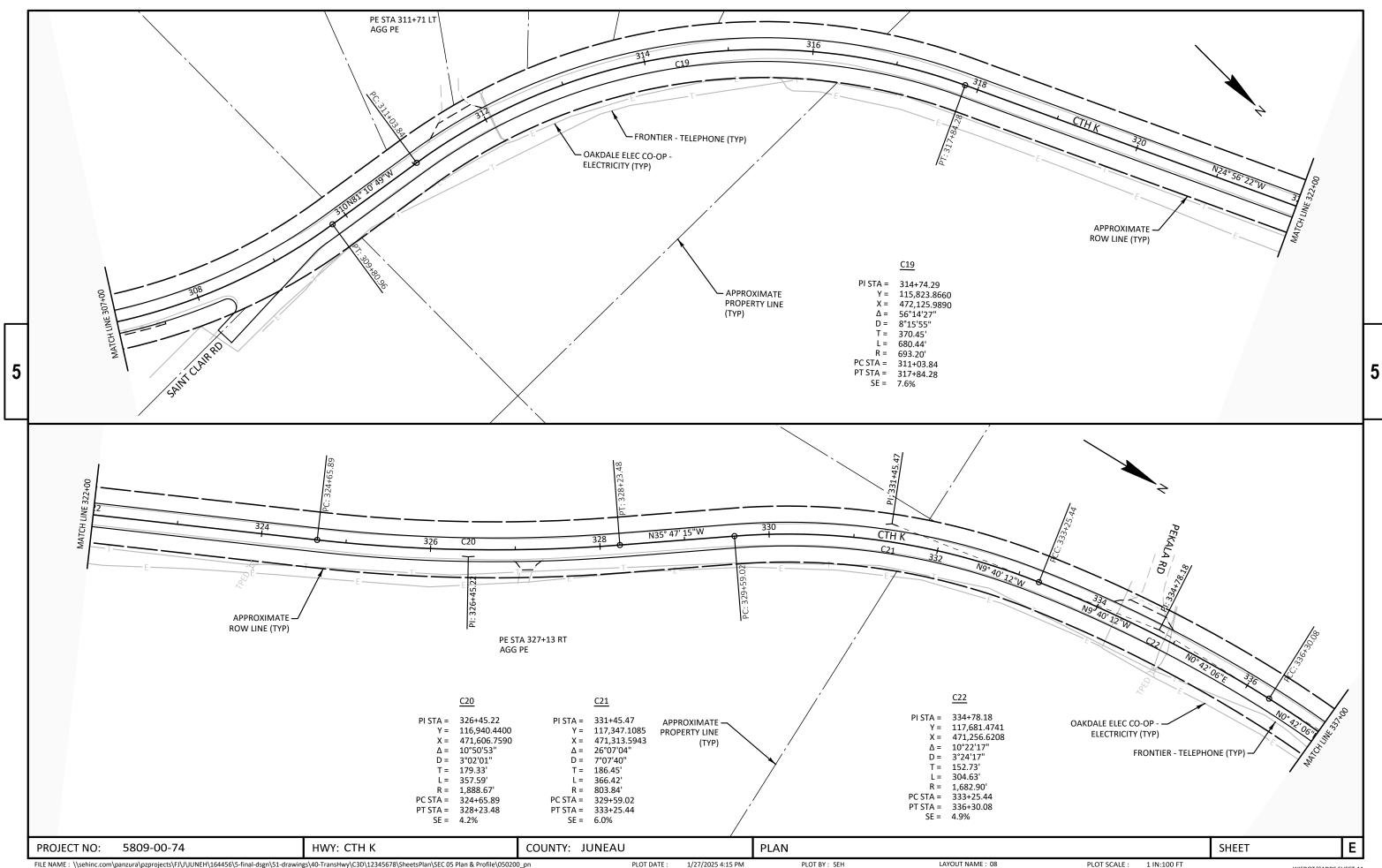


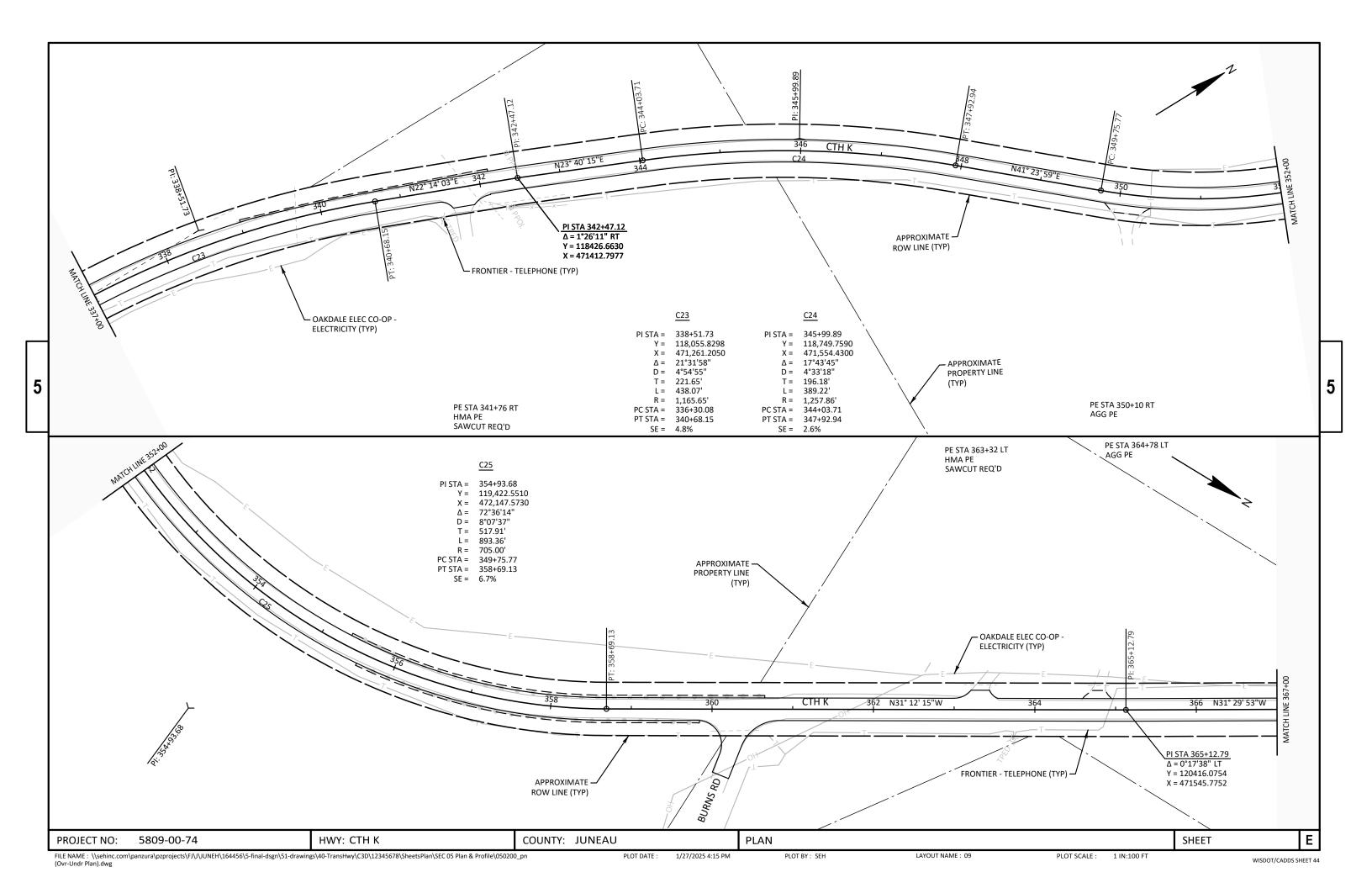


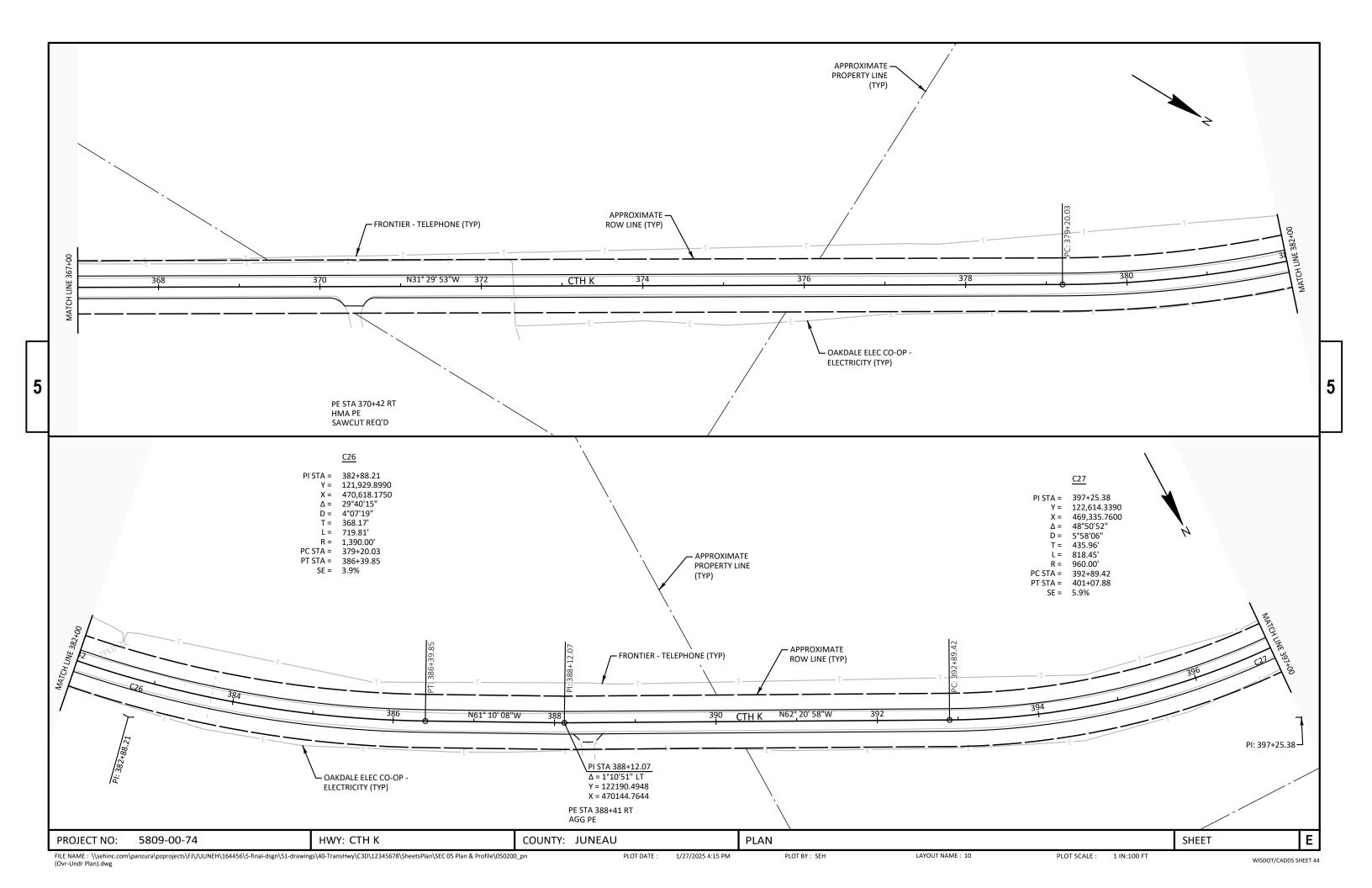


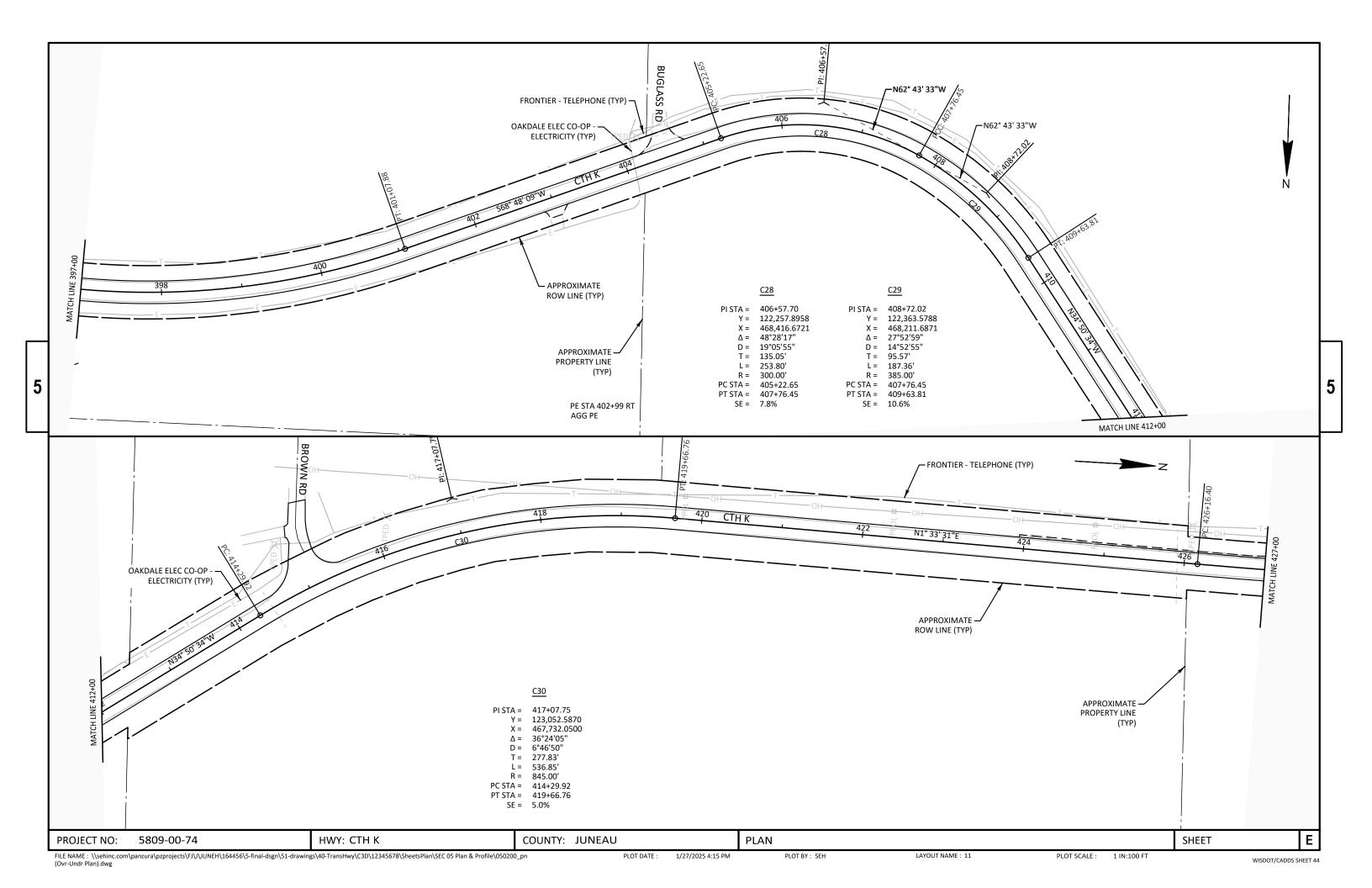


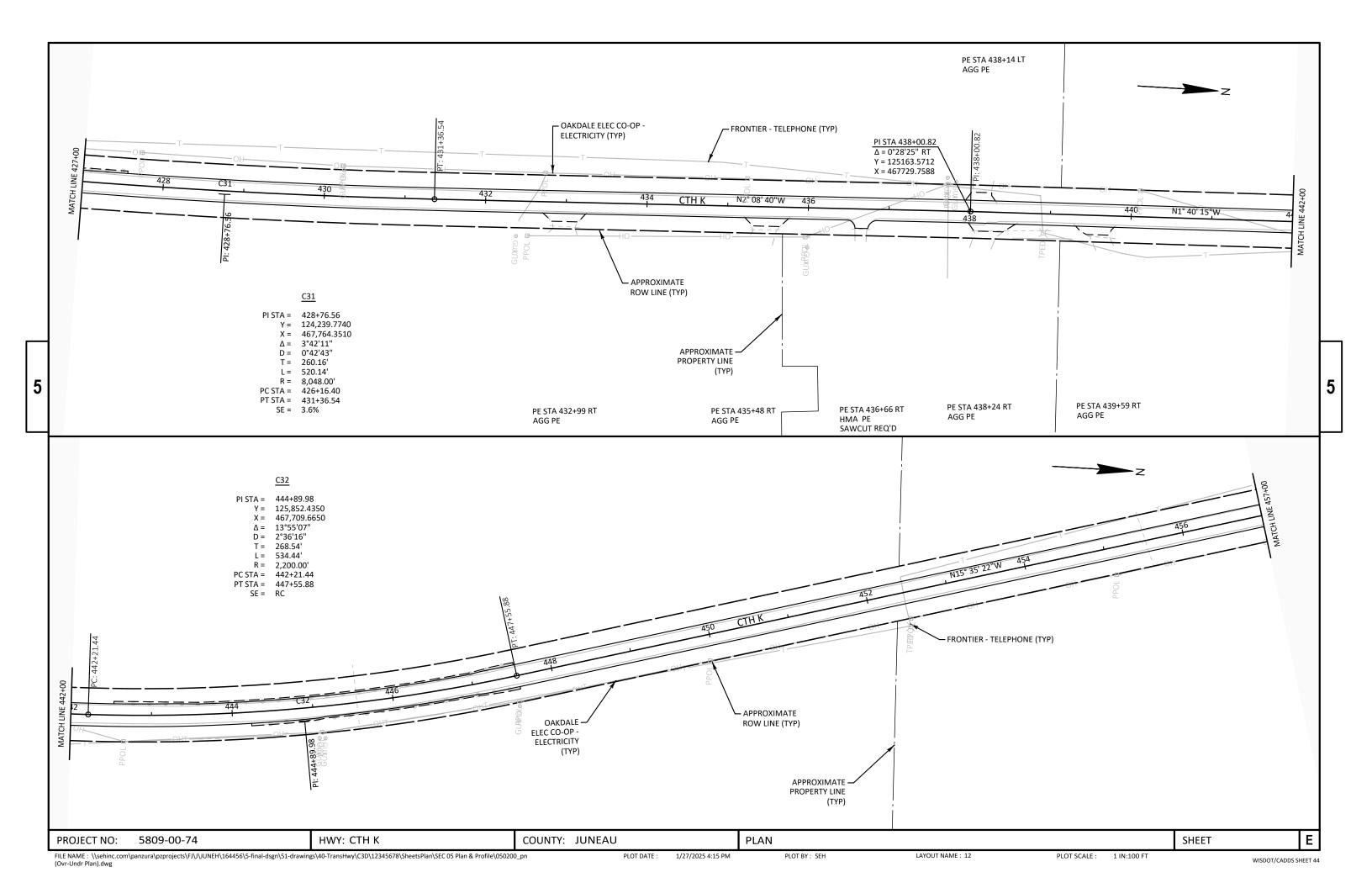


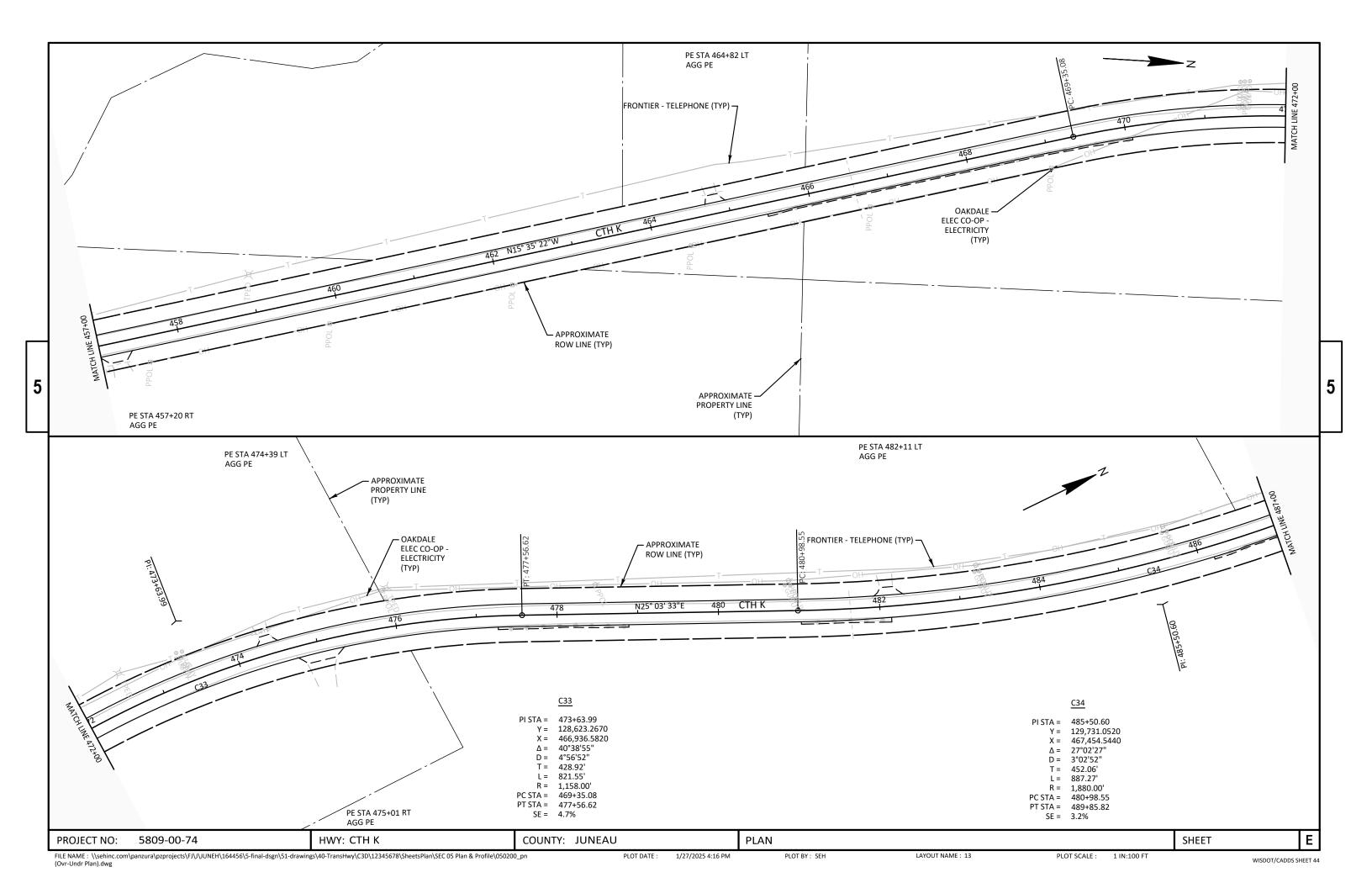


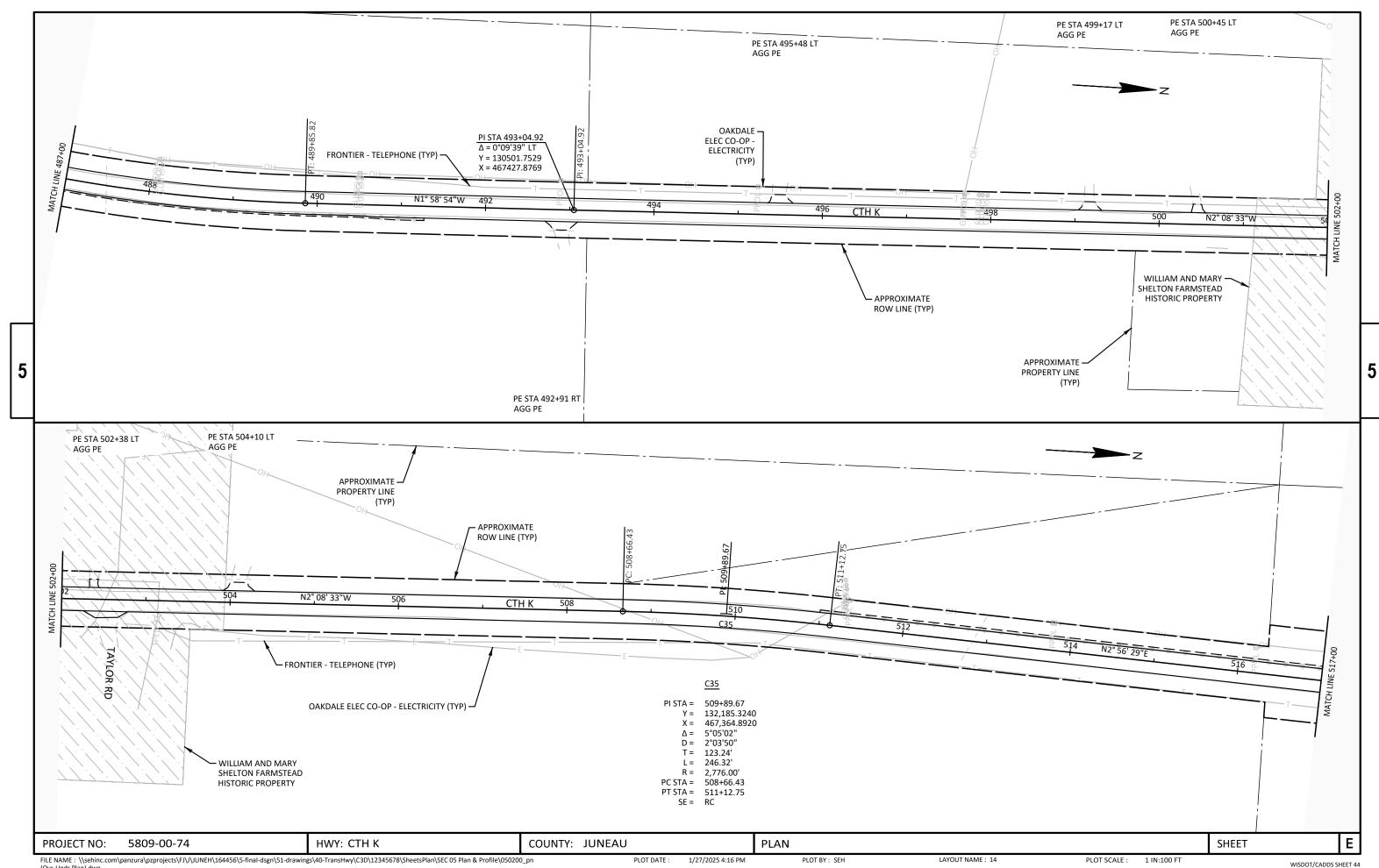


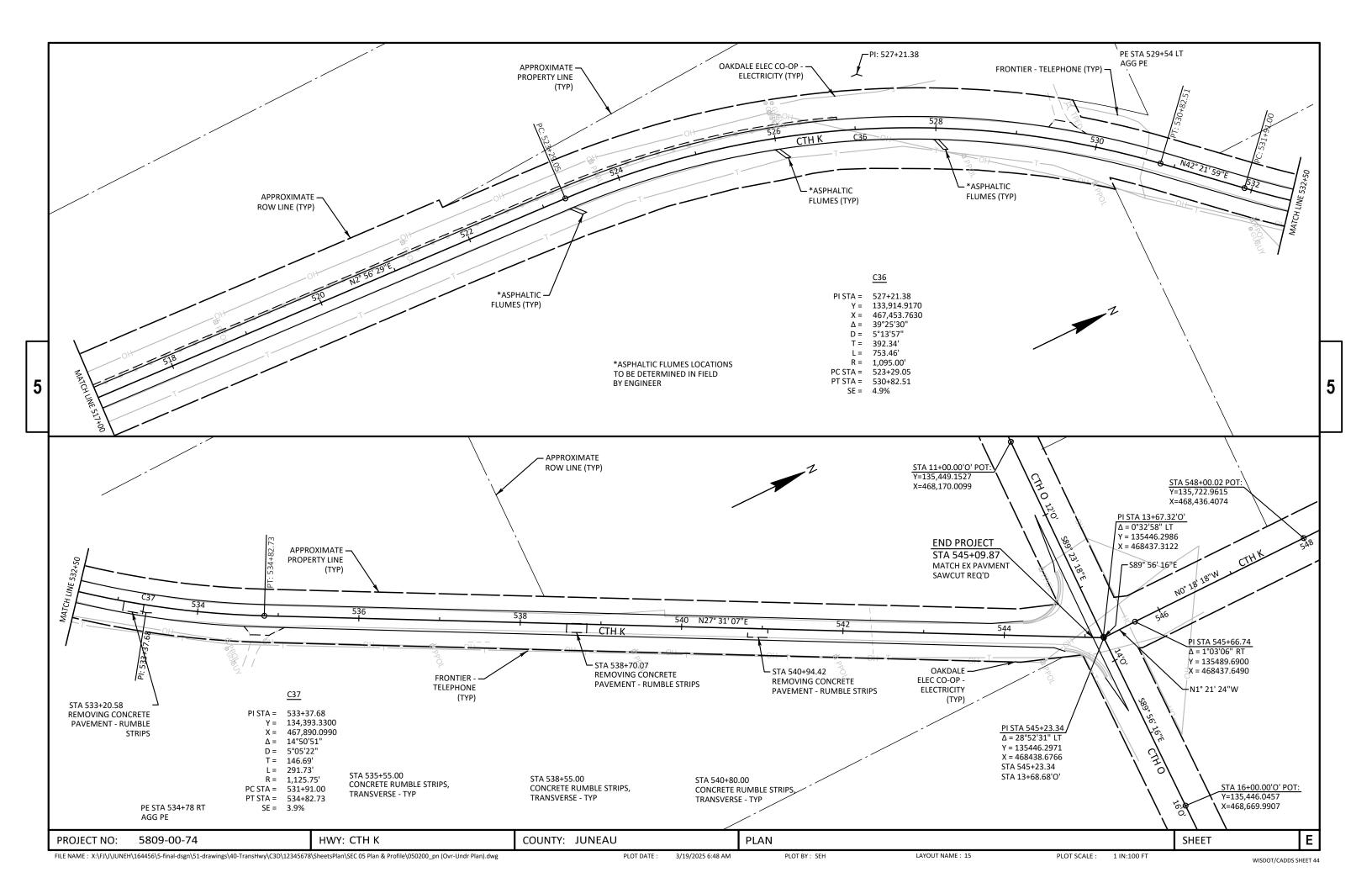








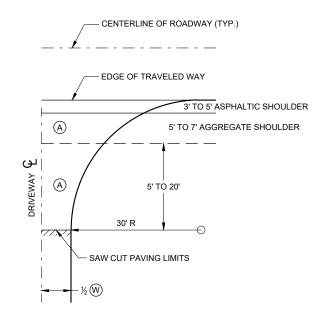




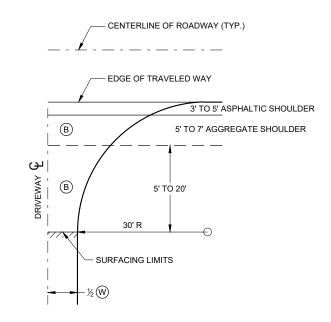
## Standard Detail Drawing List

08D22-01 09G02-05A 09G02-05B 09G02-05C 13A09-02 13A11-04A 13A11-04D 13C19-03 14B29-01 14B42-07A 14B42-07B 14B42-07C 14B42-07C 14B42-07D 15C04-05 15C08-23A 15C08-23B 15C12-09A 15C19-09A	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION TRANSVERSE RUMBLE STRIPS, CONCRETE CENTERLINE RUMBLE STRIPS - ASPHALT CENTERLINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAILROADS HMA LONGITUDINAL JOINTS SAFETY EDGE MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC PERMANENT LONGITUDINAL PAVEMENT MARKINGS TEMPORARY LONGITUDINAL PAVEMENT MARKING TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-09A 15C35-06A 15D28-04	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY PAVEMENT MARKING (INTERSECTIONS) TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D33-09	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

6

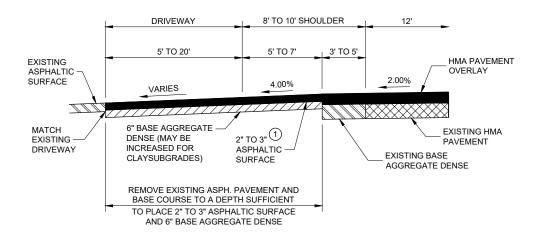


- (A) : PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES. (TON)
- ig(Big) : PAID FOR AS BASE AGGREGATE DENSE 1  $1\!\!\!/ _4$ " (TON)
- W): DRIVEWAY WIDTH 16' MIN. 24' MAX.

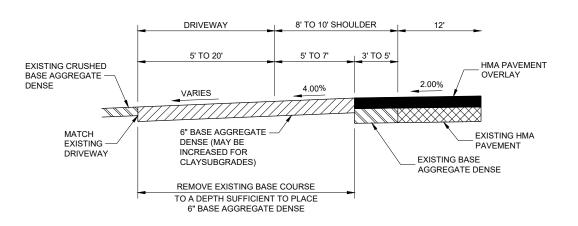


## PLAN VIEW HALF SECTION





PROFILE VIEW
RURAL ENTRANCE
WITH ASPHALTIC SURFACE
RESURFACING PROJECTS



PROFILE VIEW
RURAL ENTRANCE
WITH AGGREGATE SURFACE
6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

#### DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

December 2016

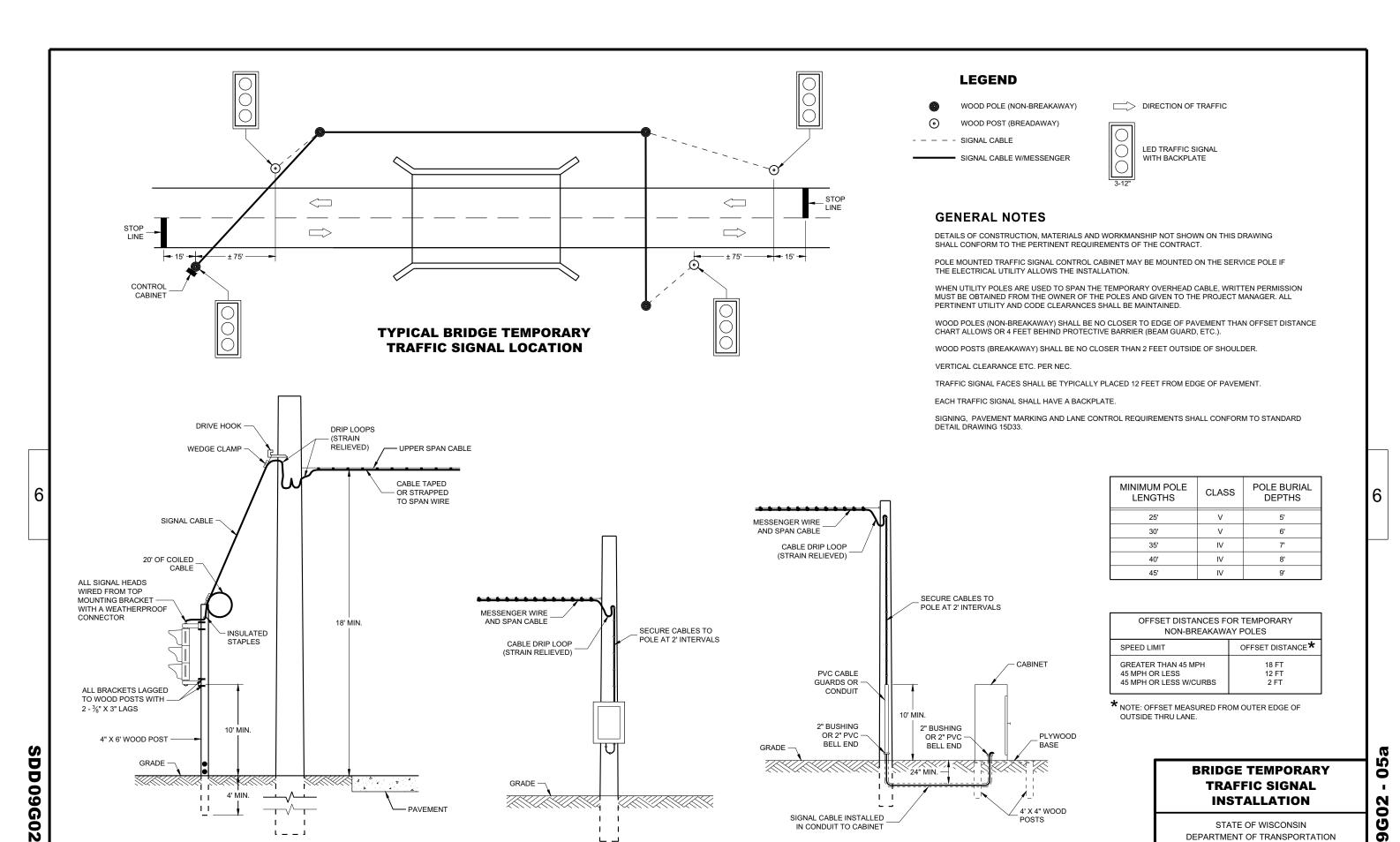
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

6

SDD 08D22 -

SDD 08D22



**POLE MOUNT** 

**CABINET INSTALLATION** 

GRADE

- PAVEMENT

4' MIN.

**TYPICAL DROP TO** 

TRAFFIC SIGNAL FACE

0

60

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED March 2018

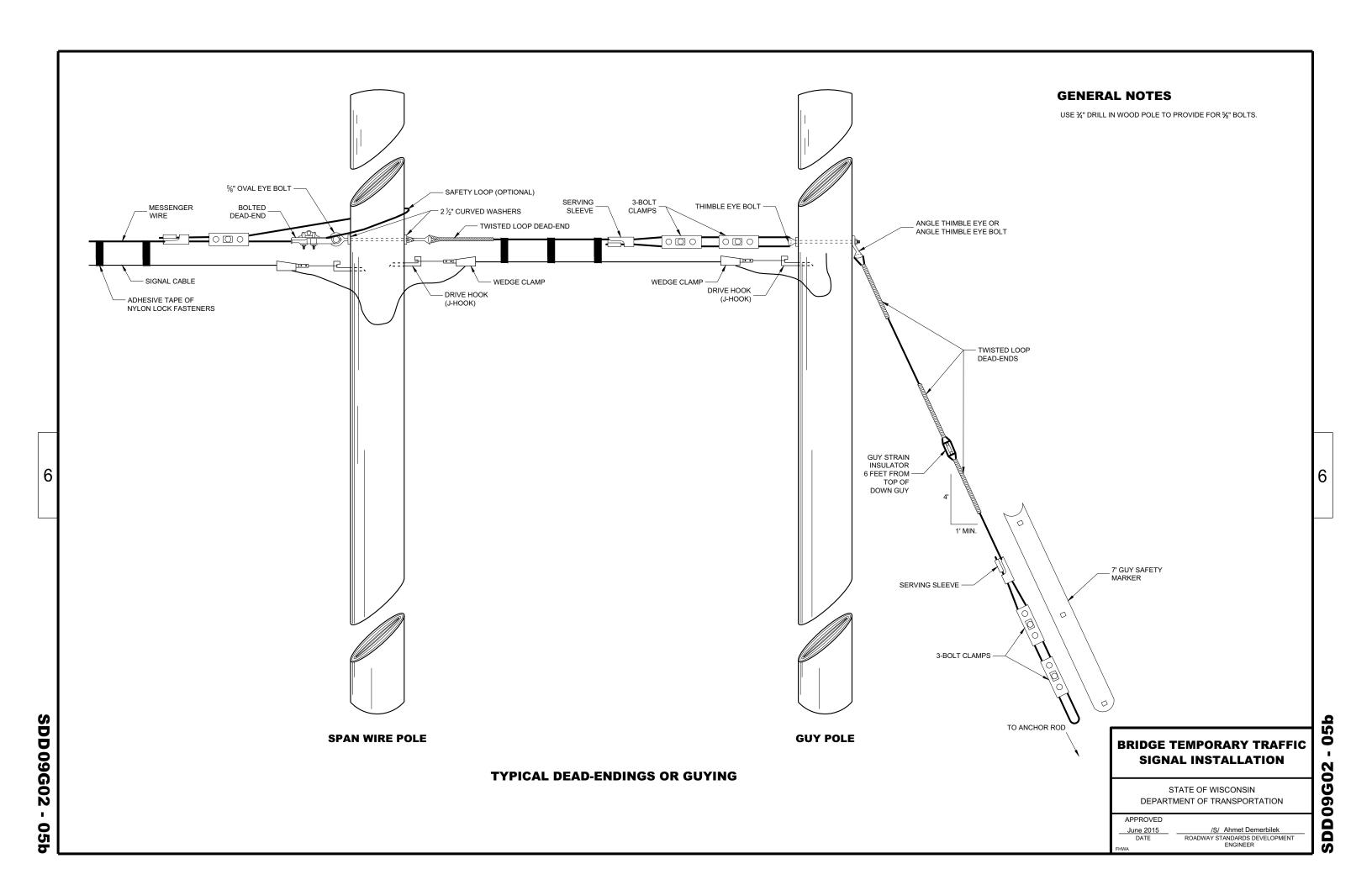
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

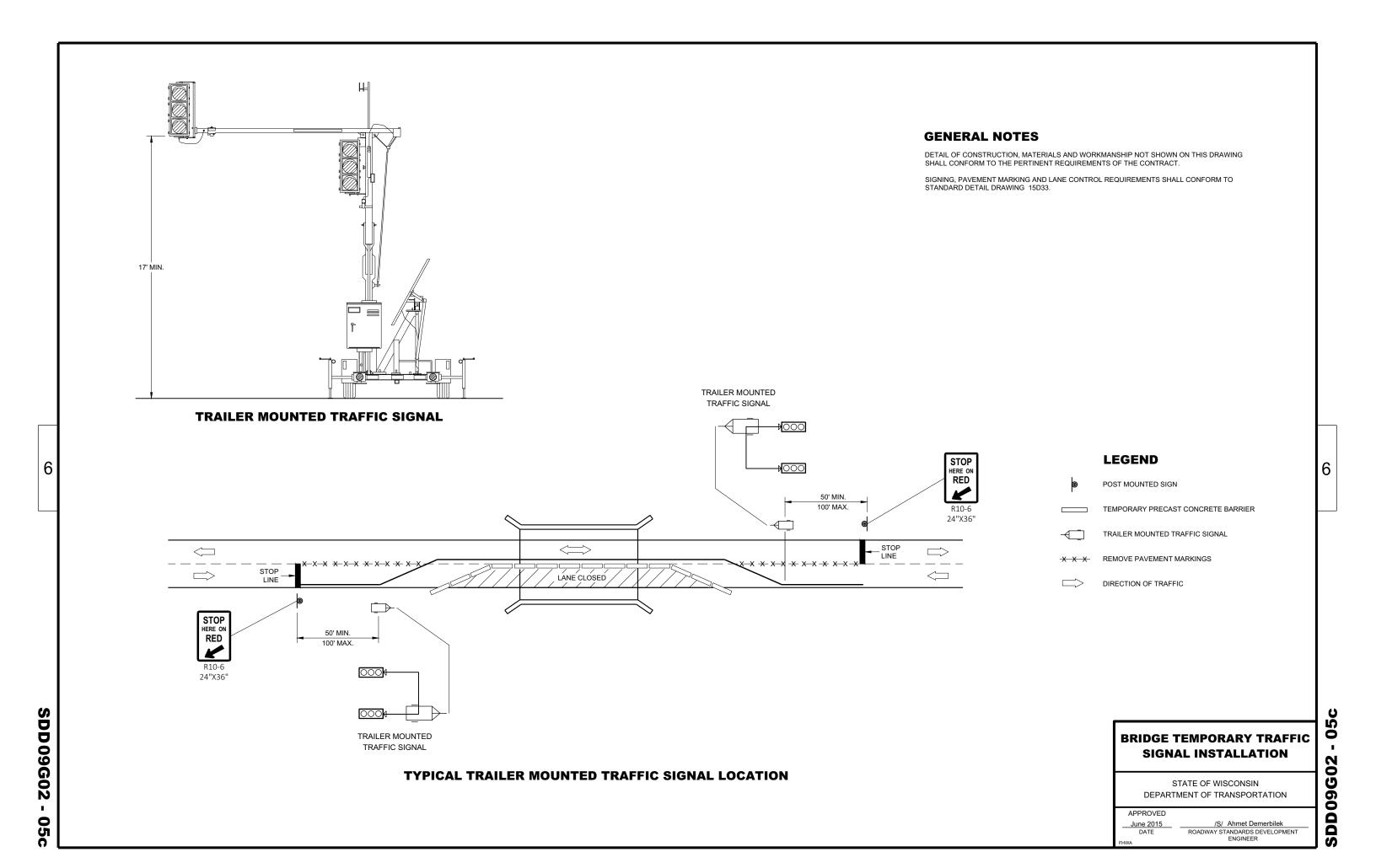
**GROUND MOUNT CABINET INSTALLATION** 

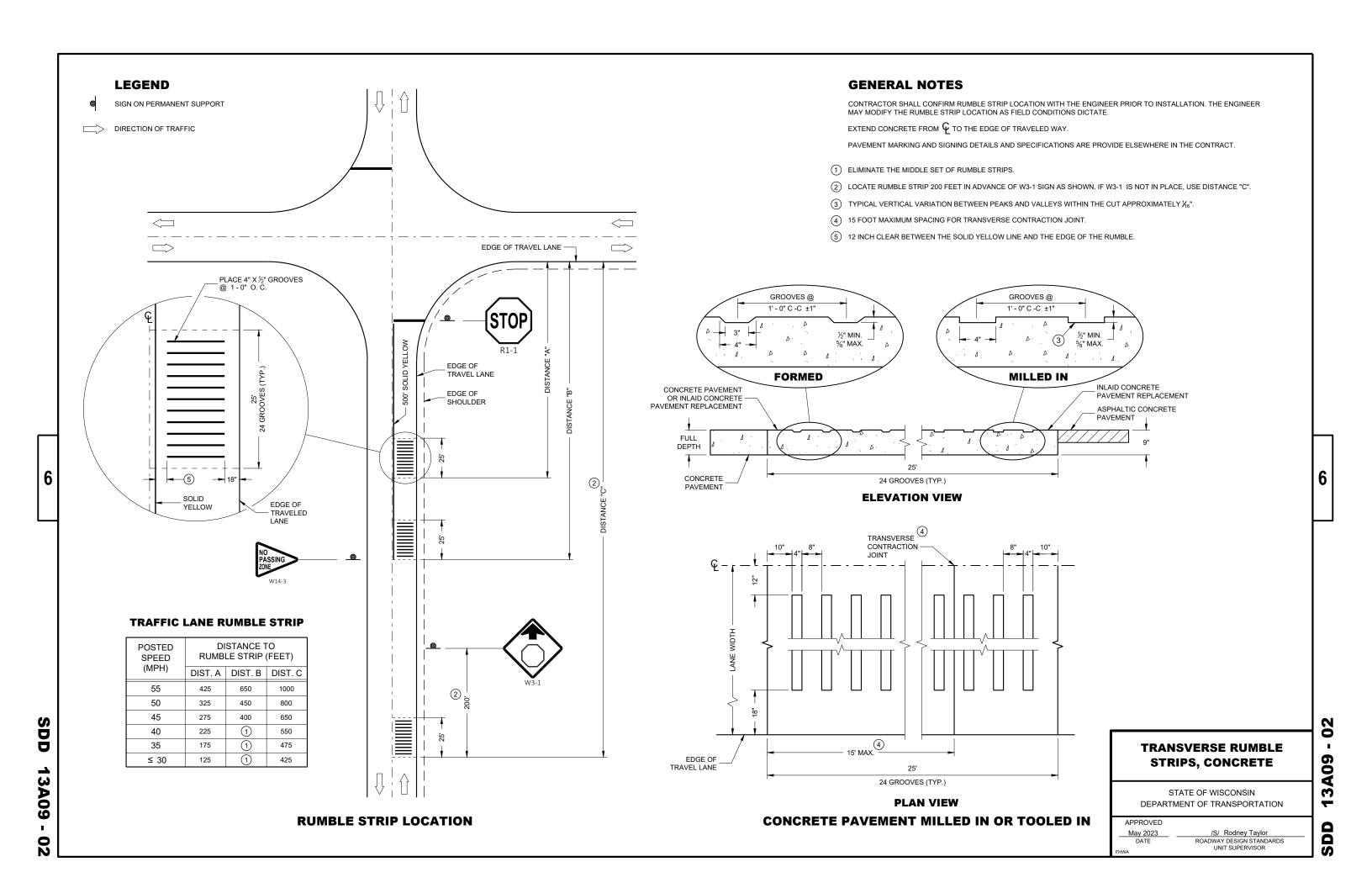
SIGNAL CABLE INSTALLED IN CONDUIT TO CABINET

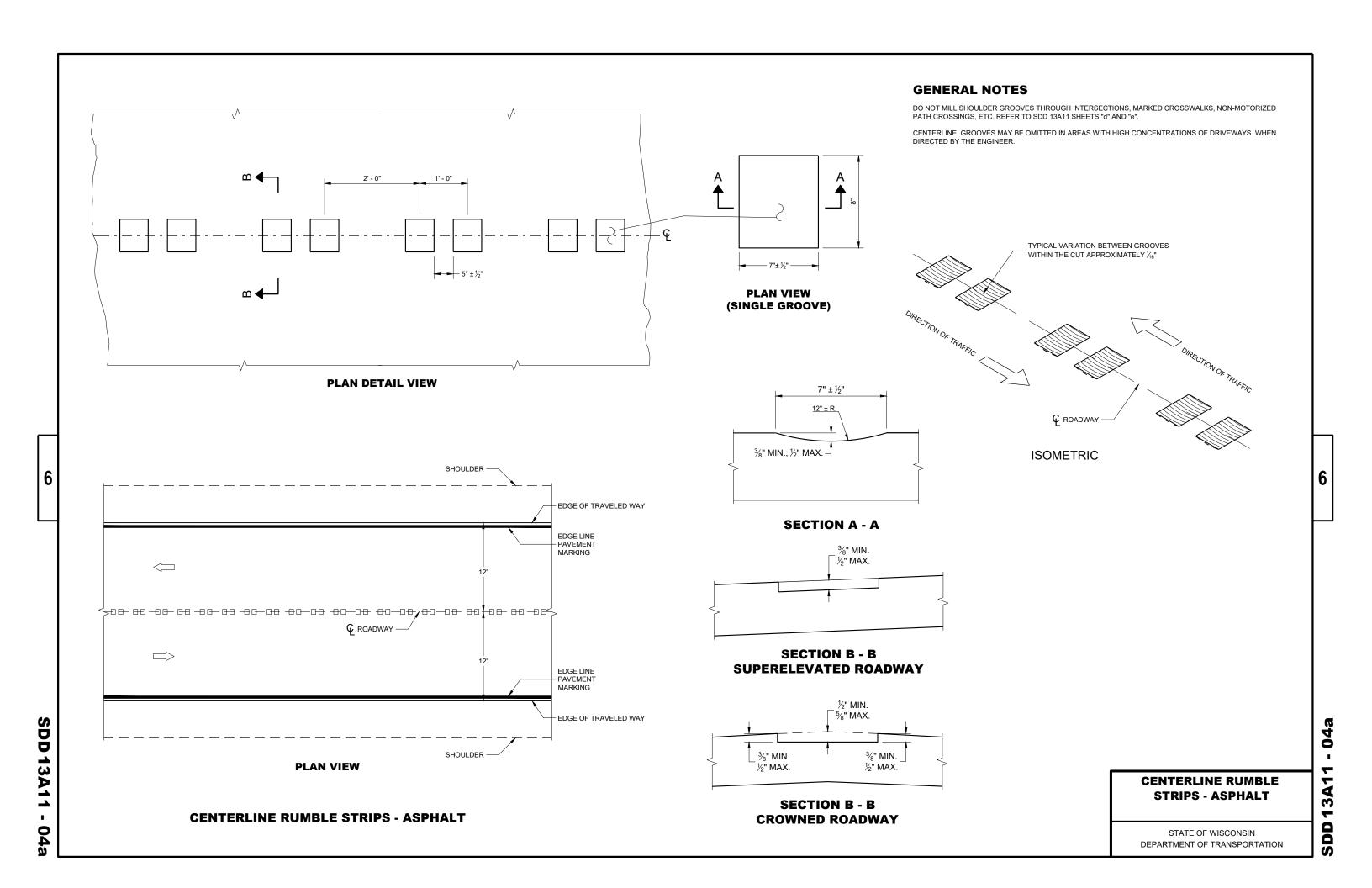
24" MIN.

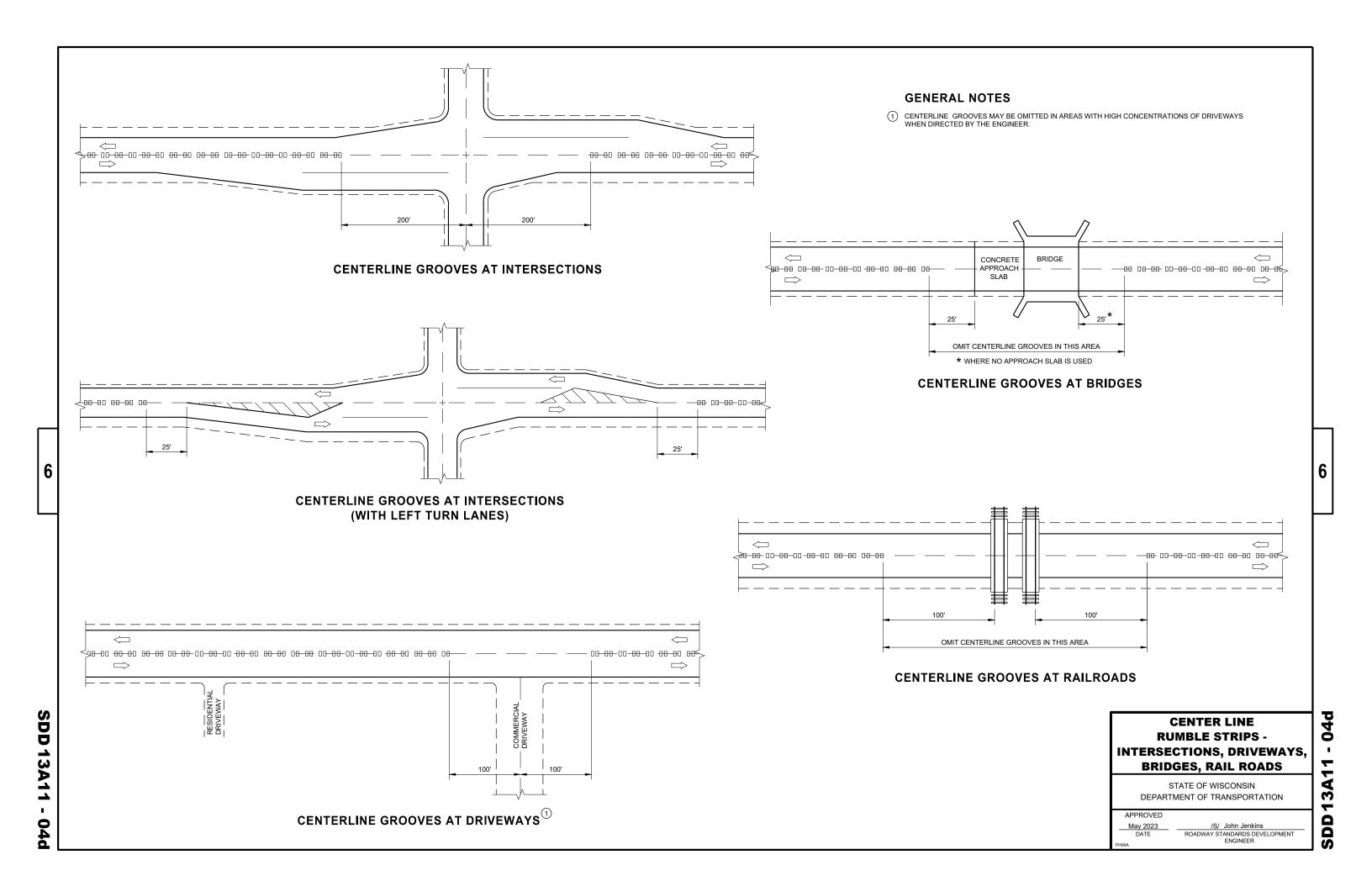
4' X 4" WOOD

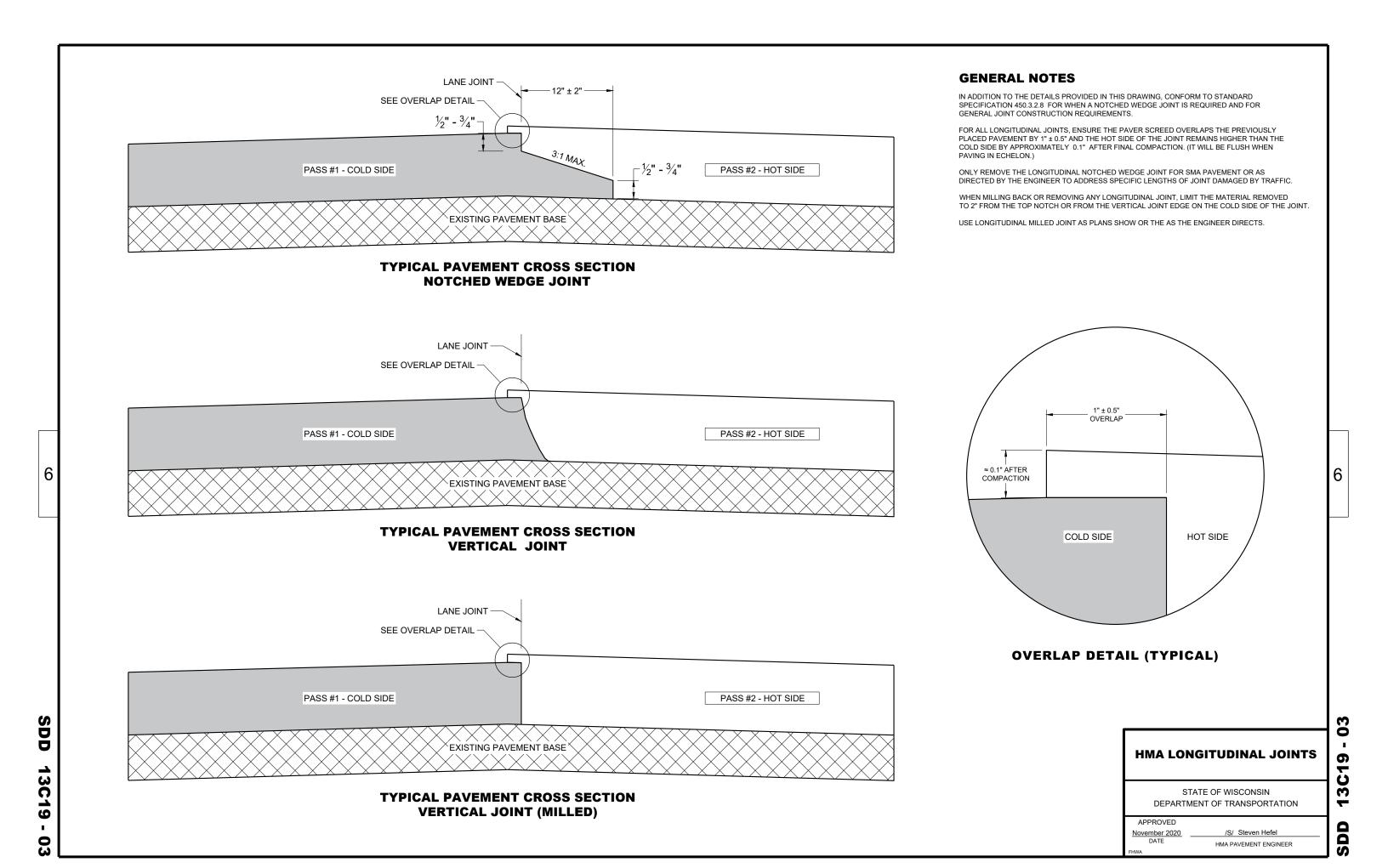


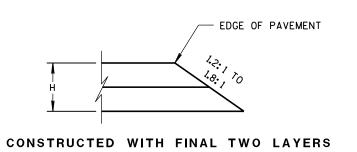


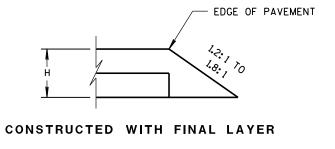




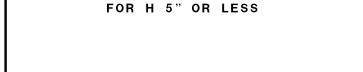


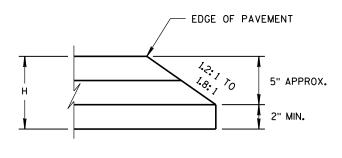






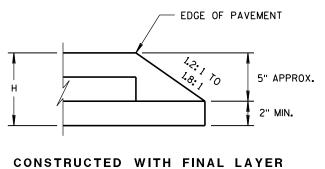
FOR H 5" OR LESS



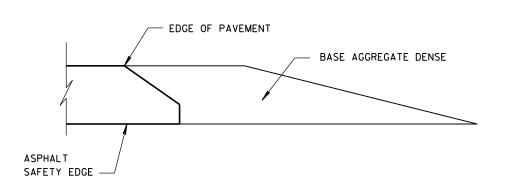


CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"



FOR H GREATER THAN 5"



FINISHED SHOULDER AGGREGATE PLACEMENT

HMA PAVEMENT AND HMA OVERLAYS

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

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Ω

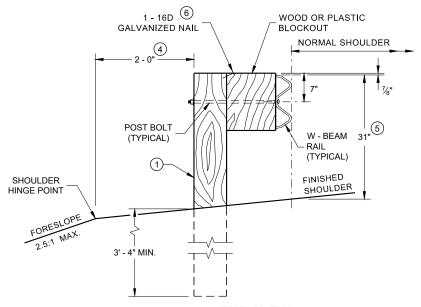
Ω

APPROVED

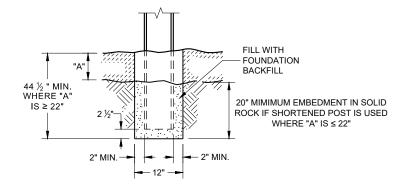
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

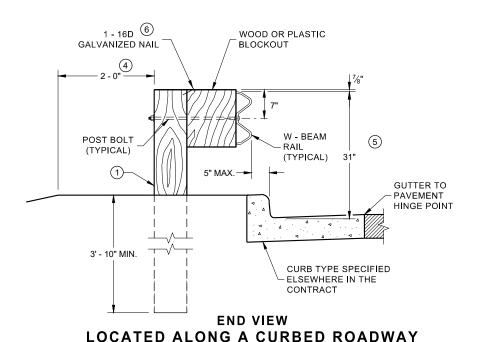
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $\fill \begin{tabular}{ll} \end{tabular}$  FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS \$\pm1"\$. FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 % " TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.
- $\bigcirc$  TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".

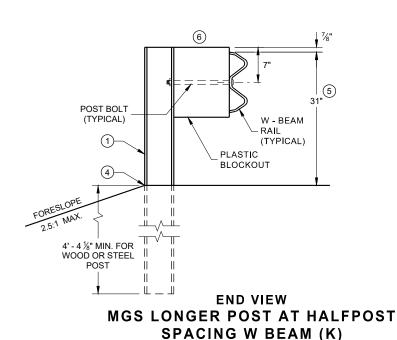


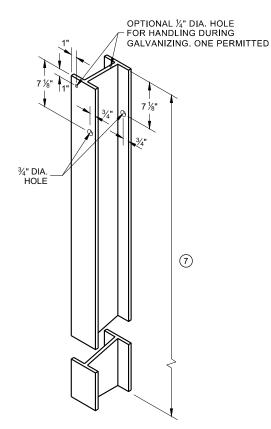
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



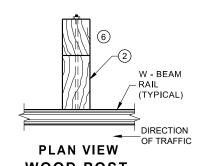
SETTING STEEL OR WOOD POST IN ROCK



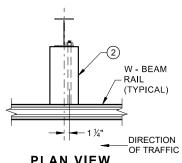




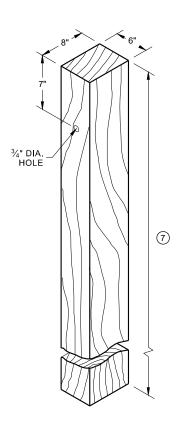
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



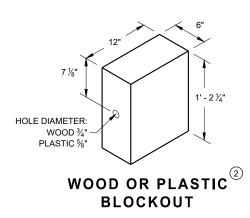
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

# FRONT VIEW HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

6' 3" C - C

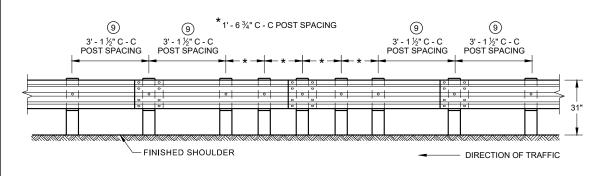
POST SPACING

DIRECTION OF TRAFFIC

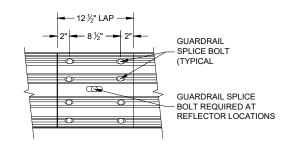
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW
QUARTER POST SPACING (QS)



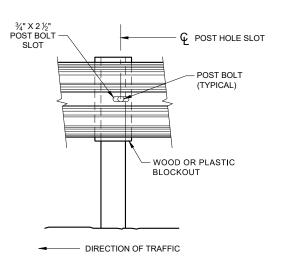
FRONT VIEW
MID-SPAN BEAM SPLICE

#### **GENERAL NOTES**

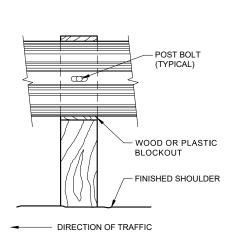
- 8 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

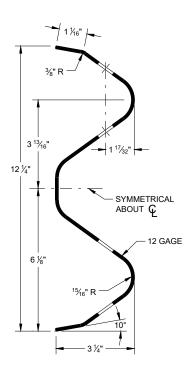
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



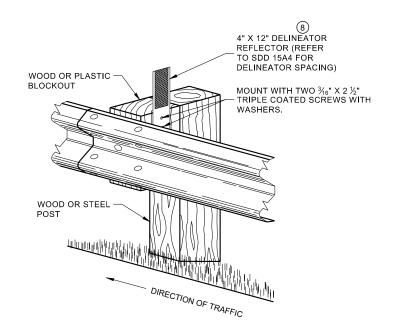
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



**SECTION THRU W-BEAM RAIL** 



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

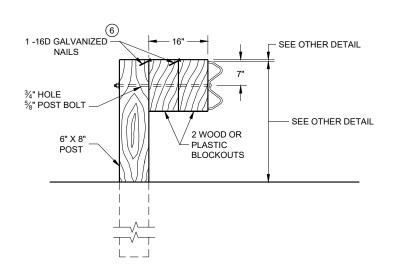
**07**b

SDD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

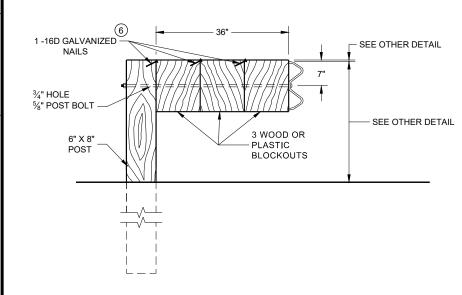
6

6



#### **DETAIL FOR 16" BLOCKOUT DEPTH**

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



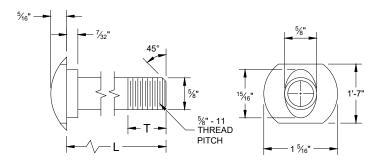
#### **DETAIL FOR 36" BLOCKOUT DEPTH**

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

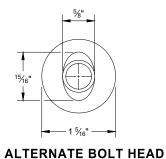
#### NOTE:

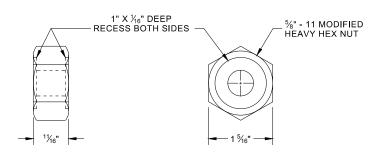
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3/6".
- 2. IF THE BOLT EXTENDS MORE THAN  $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



#### **POST BOLT TABLE**

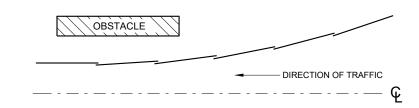
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



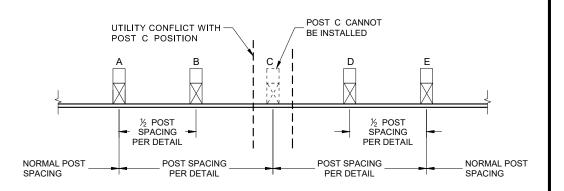


#### POST BOLT, SPLICE BOLT **AND RECESS NUT**

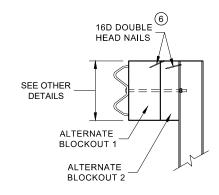
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

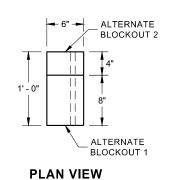


#### **PLAN VIEW BEAM LAPPING DETAIL**



#### POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

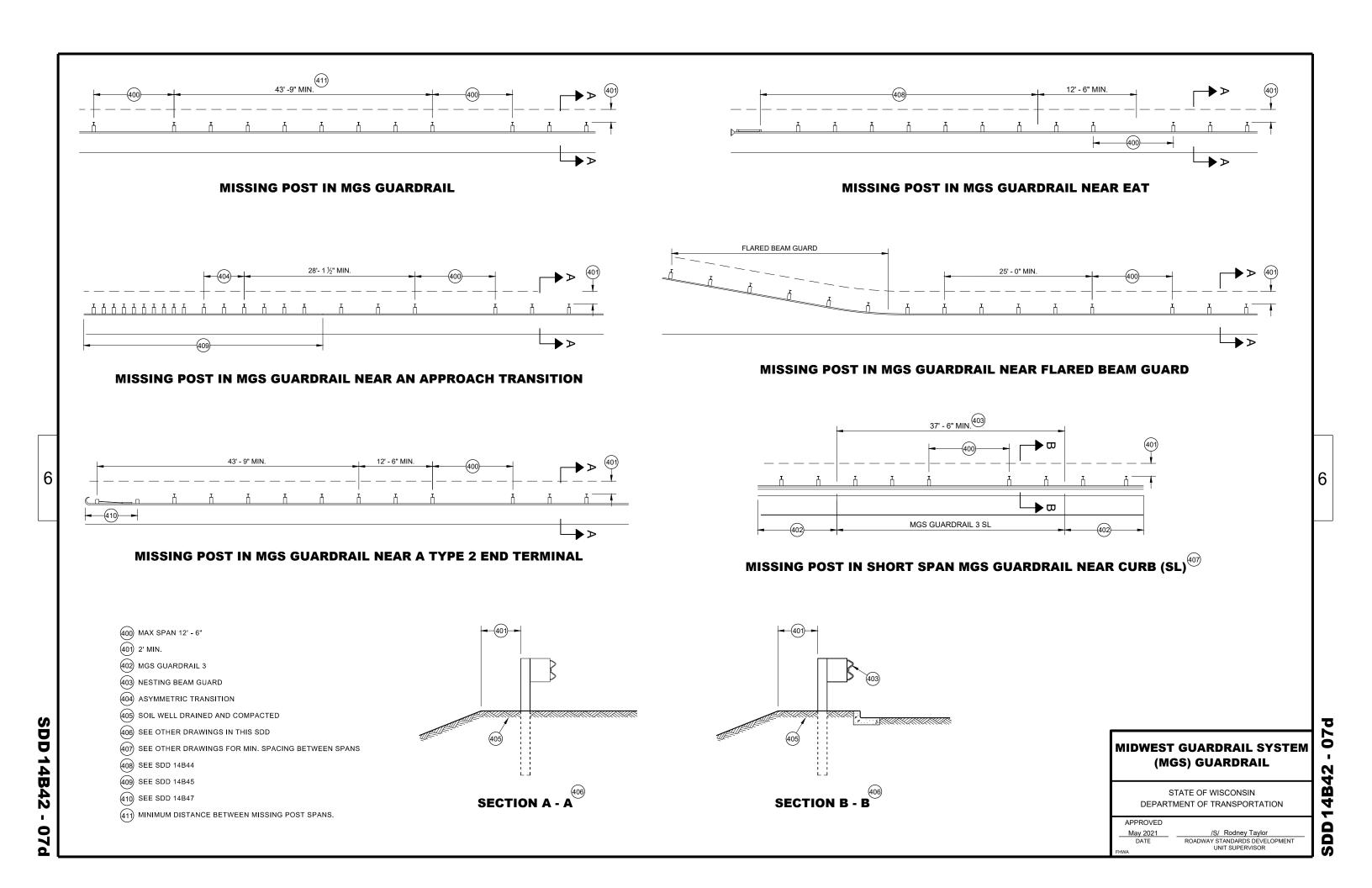
**ALTERNATE WOOD BLOCKOUT DETAIL** 

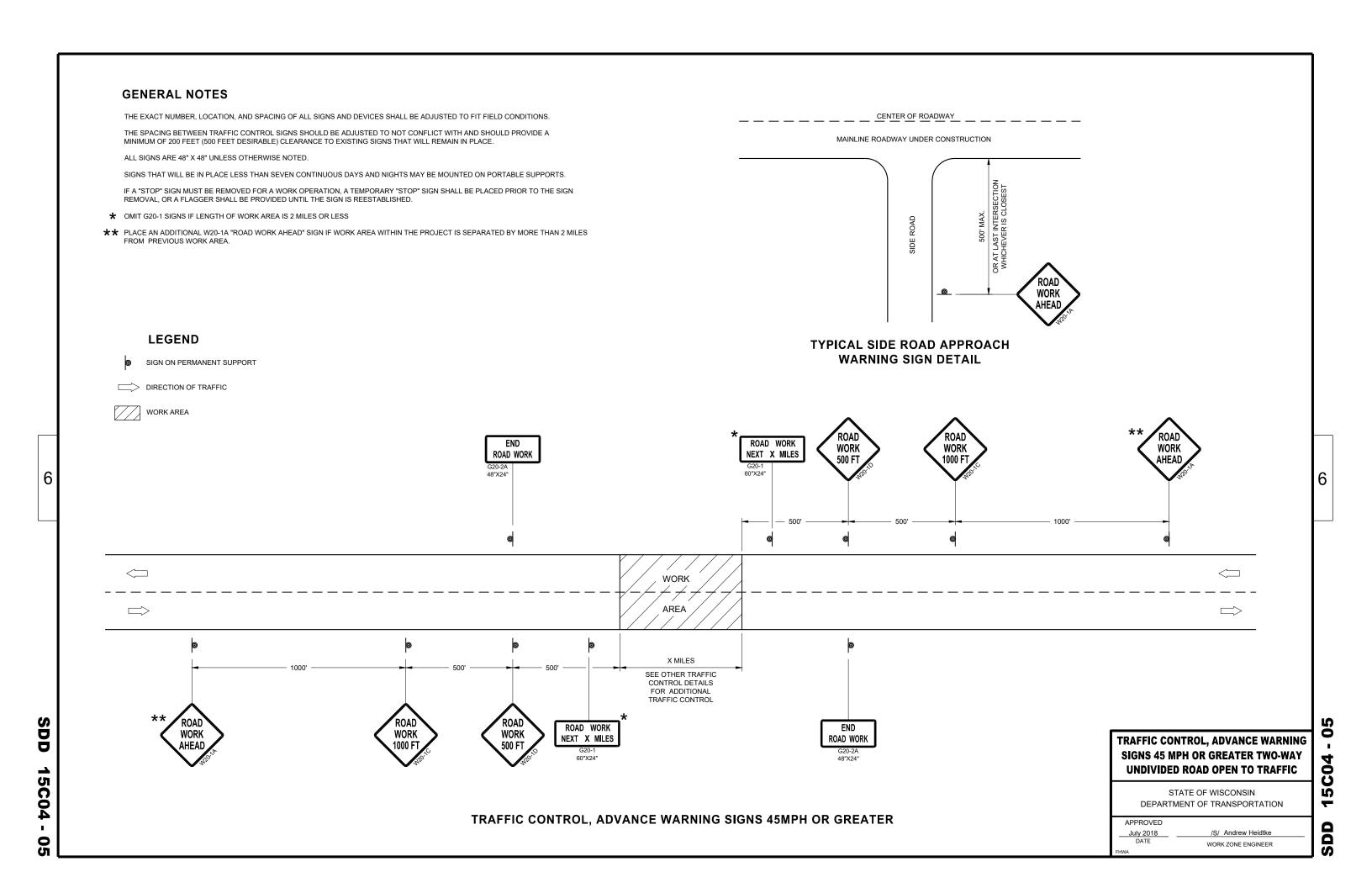
#### **MIDWEST GUARDRAIL SYSTEM** (MGS) GUARDRAIL

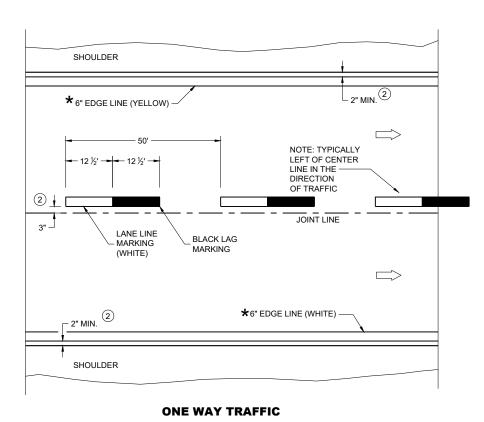
07

SD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION







**PERMANENT PAVEMENT MARKING** 

#### **GENERAL NOTES**

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

- 1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- (2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

#### **LEGEND**

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

PERMANENT LONGITUDINAL **PAVEMENT MARKINGS** 

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

May 2023 DATE

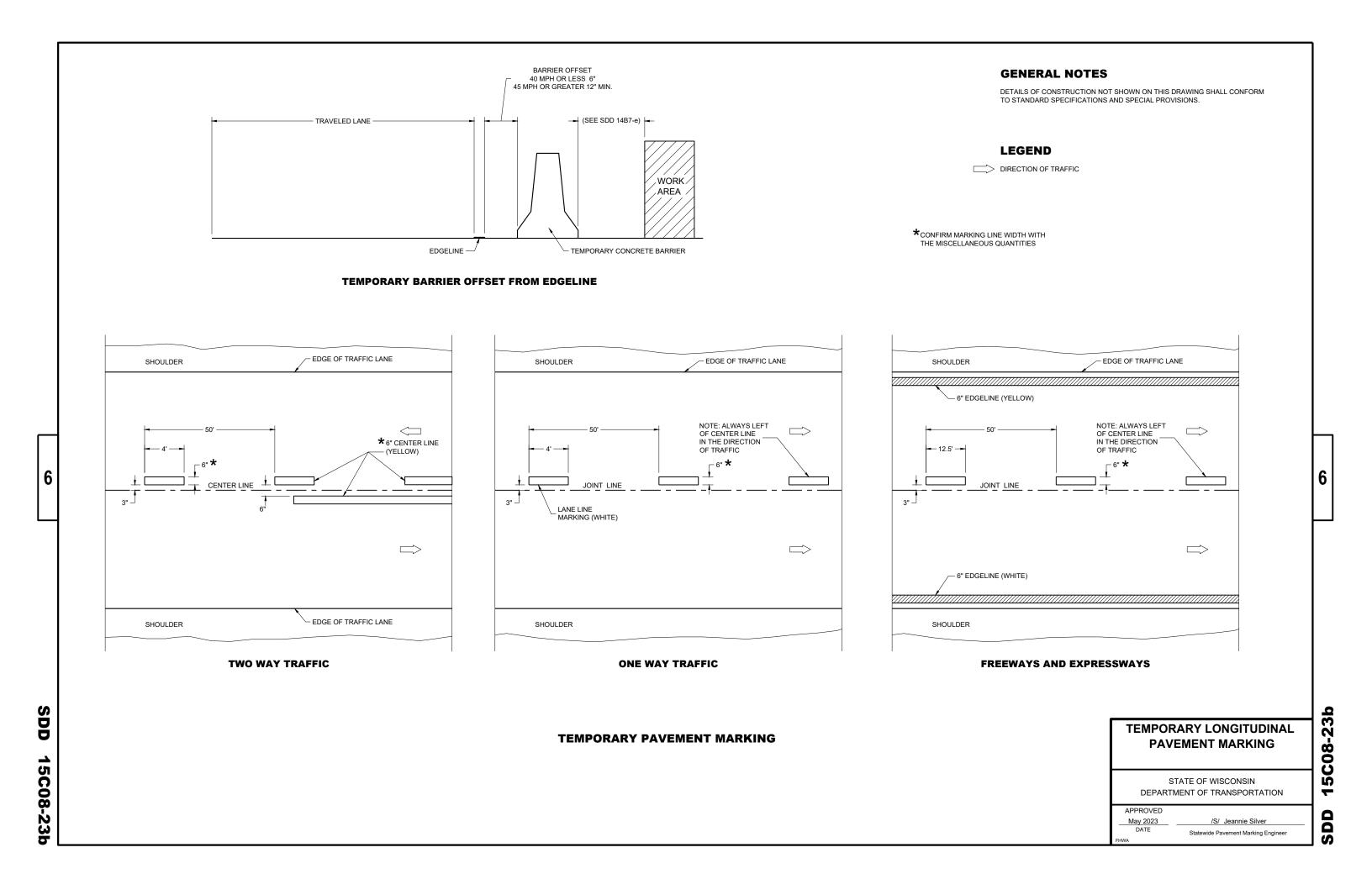
/S/ Jeannie Silver Statewide Pavement Marking Engineer

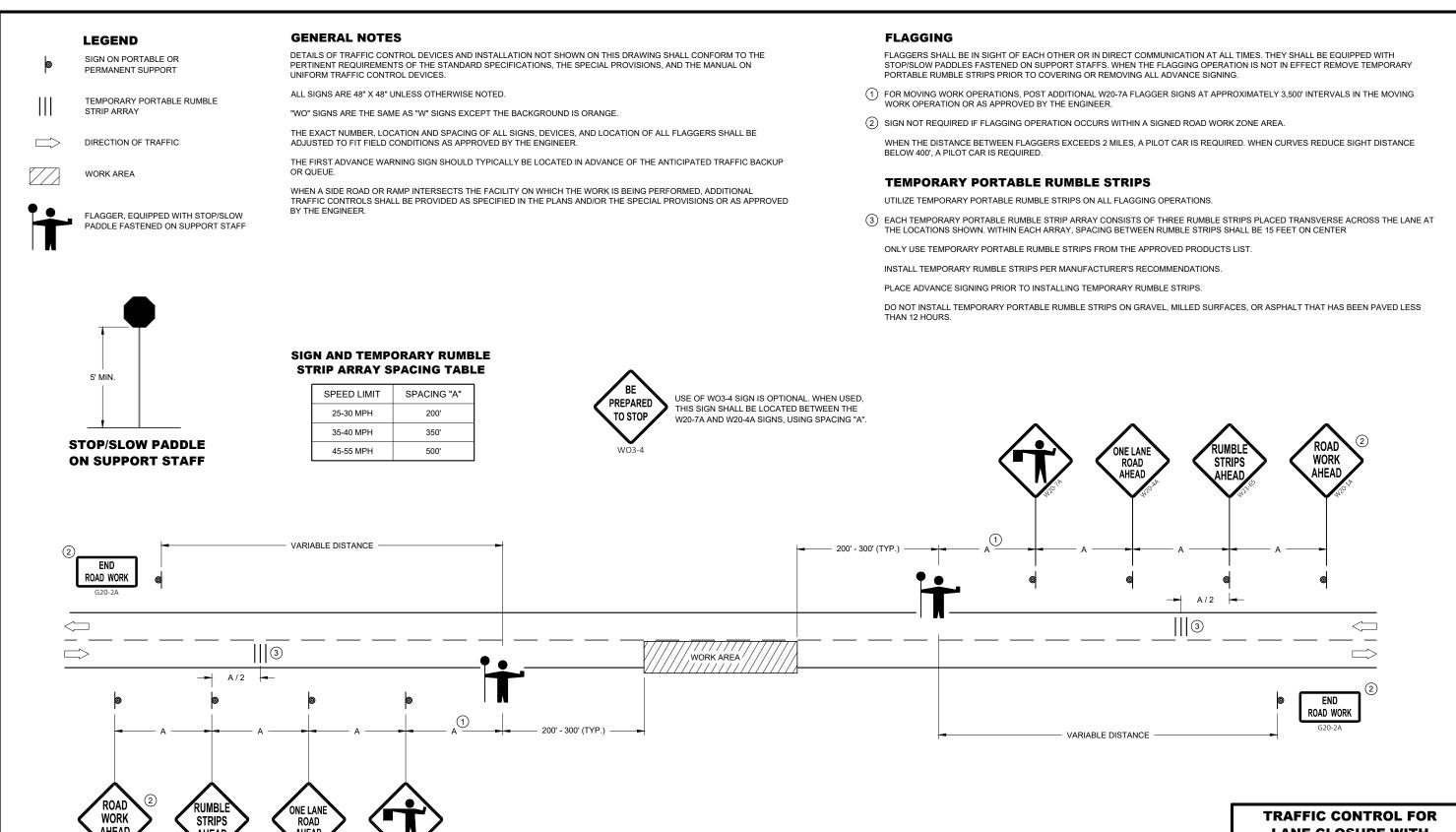
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C08-23 Ŋ SD

15C08-23a





LANE CLOSURE WITH **FLAGGING OPERATION**  0

2

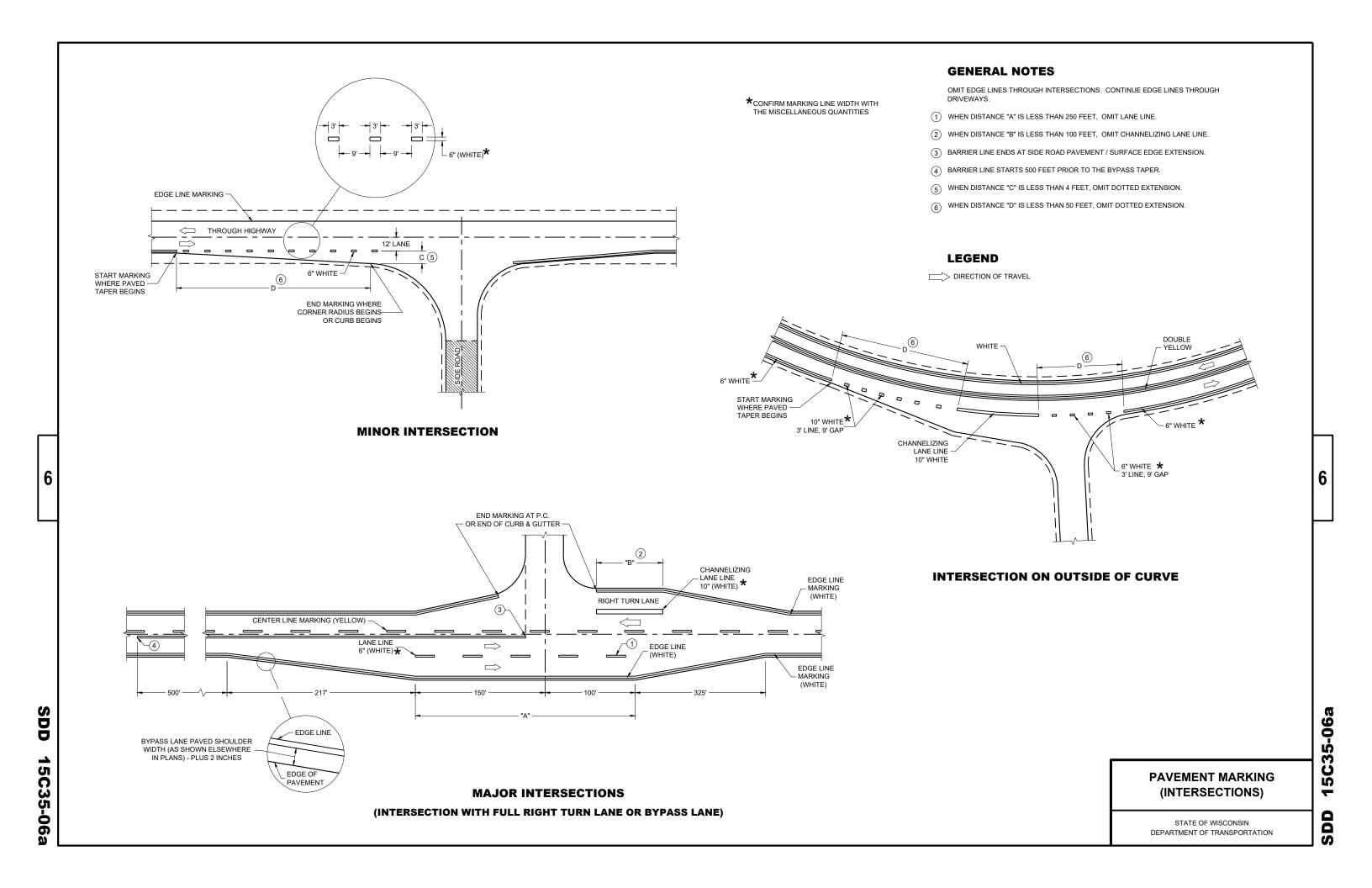
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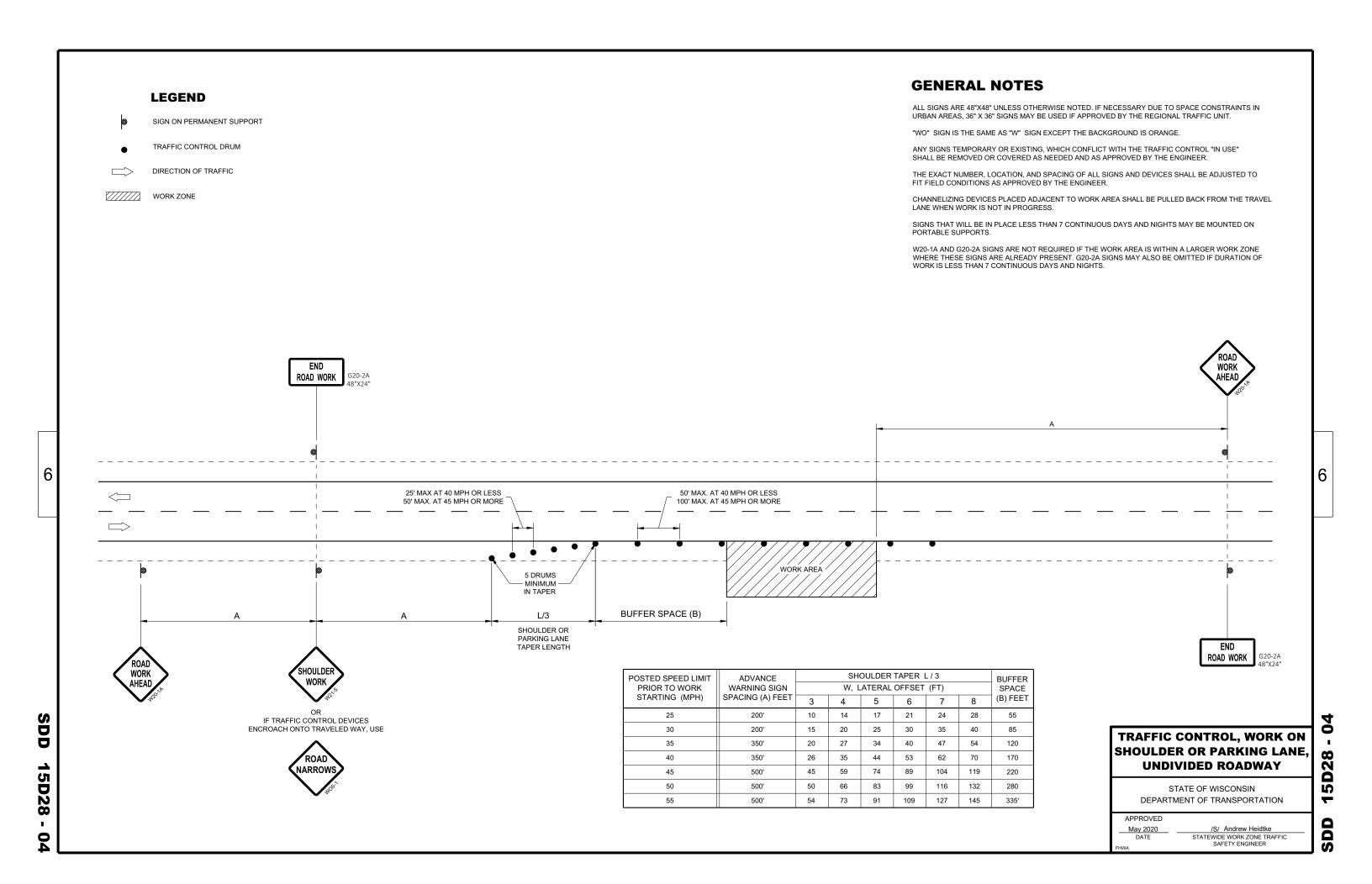
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

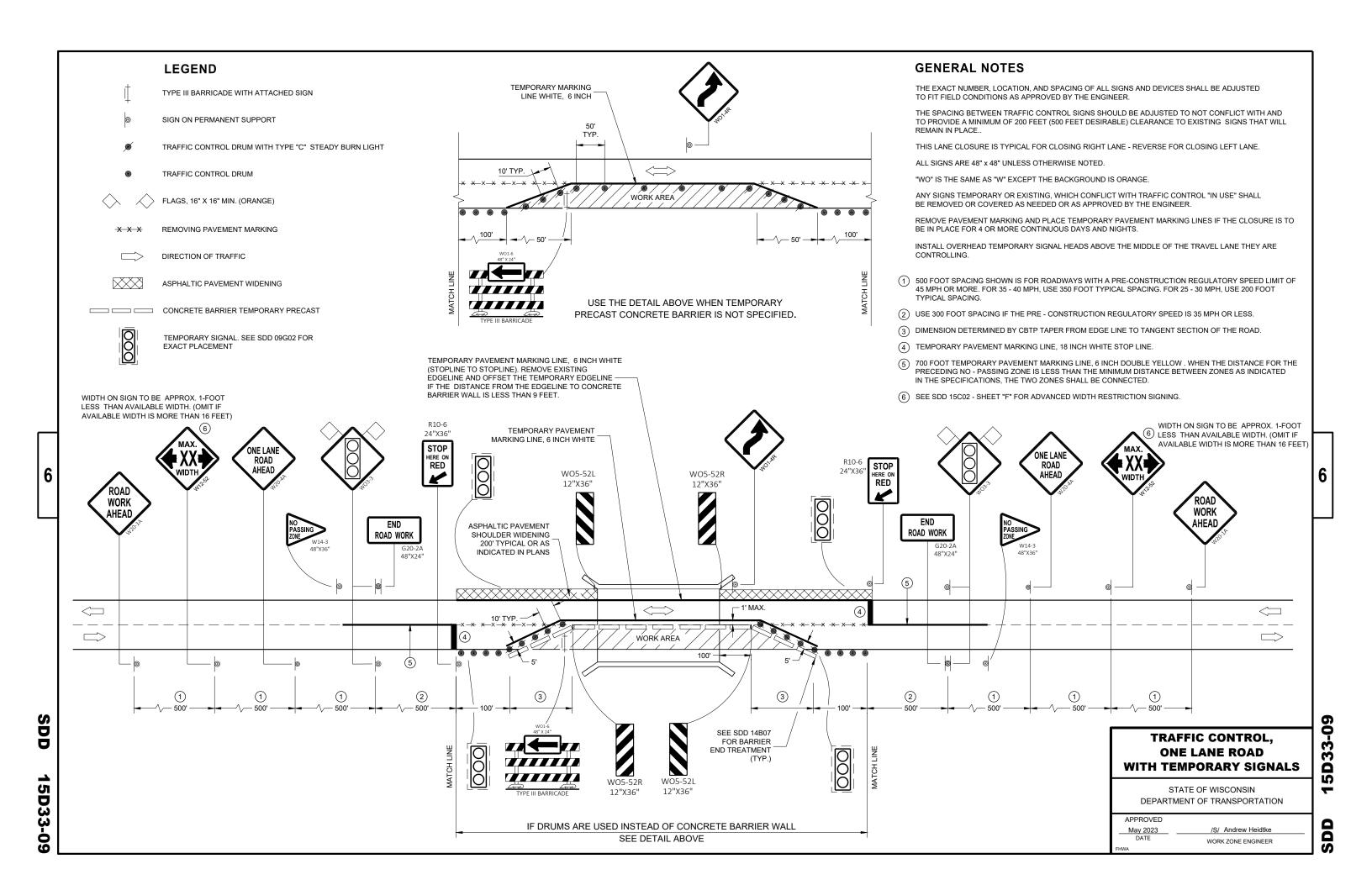
APPROVED May 2022 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

19-9

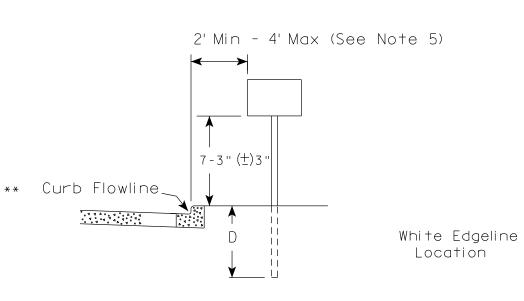
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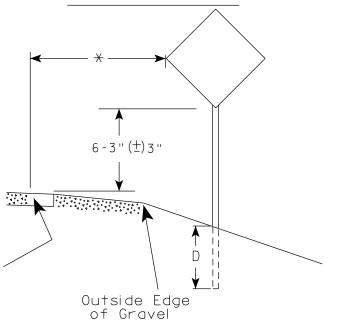








RURAL AREA (See Note 2)



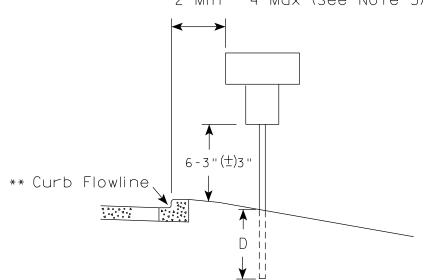
#### GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" ( $\pm$ ) 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" ( $\pm$ ) 3".

- 3. For expressways and freeways, mounting height is 7'- 3"  $(\pm)$  3" or 6'-3"  $(\pm)$  3" depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ( $\frac{+}{-}$ ) 3''.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) 3'' or as directd by the Engineer.

2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

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

The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

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

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. \_\_A4-3.23

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



#### **ELEVATION VIEW**

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



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

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

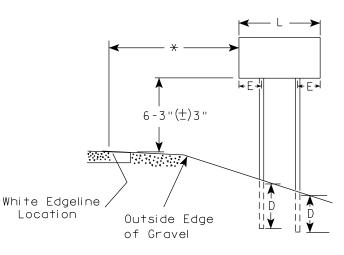
PLOT NAME :

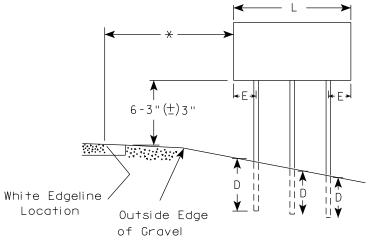
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

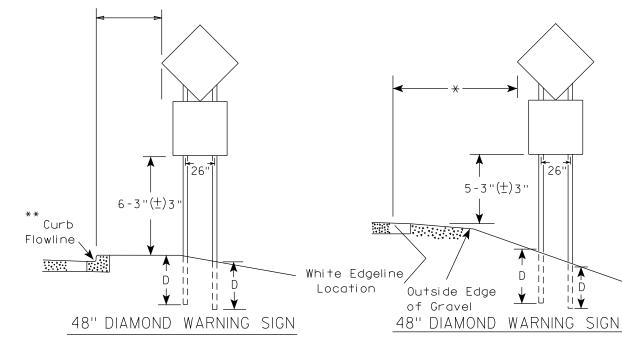
APPROVED

WISDOT/CADDS SHEET 42





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



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

HWY:

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

#### GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) 3'' or as directed by the engineer.
- 8. 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.
- $\times \times \times$  See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

#### POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

PLATE NO. <u>A4-4.16</u>

Ε

CUEET NO.

SHEET NO:

FILE NAME : C:\CAEfiles\Project\tr\_stdplate\A44.dgn

PROJECT NO:

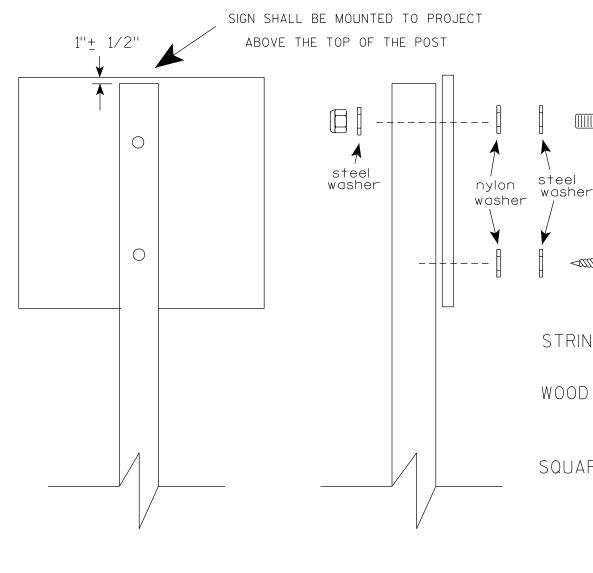
COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h

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



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

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

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

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS -  $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS  $(4'' \times 6'')$ 

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 1/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ " STEEL 1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

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

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

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

PROJECT NO:



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

DATE 2/05/15

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

For State Traffic Engineer



### BANDING



SINGLE SIGN





# WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

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

CHANNEL

#### GENERAL NOTES

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

#### "J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

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

PROJECT NO:

VIEW FROM TOP

#### GENERAL NOTES

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

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

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

BLOCK BANDING DETAIL ( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

Manher R

APPROVED

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

SIGN

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

#### NOTES

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

Background - Orange Message - Black

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

C		→ H
D-> <		
	K N	H B
		F.
◀	А	-

G20-1

SIZE	Α	В	C	D	E	F	G	Н	I	J	K	L	M	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	sq. ft.
1																											
25	60	24	1 1/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18												10.0
2M	60	24	1 1/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 ½	3		16	18												10.0
3	60	24	1 1/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 ½	3		16	18												10.0
4	60	24	1 1/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 ½	3		16	18												10.0
5	60	24	1 1/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 ½	3		16	18 %												10.0

G20-1

WISCONSIN DEPT OF TRANSPORTATION

STANDARD SIGN

APPROVED Matthew & Rauch

For State Traffic Engineer
DATE 1/26/2023 PLATE NO. G20-1.9

SHEET NO:

Ε

PROJECT NO:

HWY:

COUNTY:

PLOT BY : dotc4c

PLOT NAME :

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

PLOT DATE: 26-JAN 2023 7:55

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\G201.dgn

#### NOTES

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

Background - Orange Message - Black

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

C —		
		H
		F H B
		F G G
<b>←</b>		<b>→</b>
l	G20-2A	ı

SIZE D 4.5 36 3/8 1/23 3/4 | 2 1/2 | 4 1/8 | 4 1/8 | 11 1/8 12 1/8 18 1 1/2 4 1/2 3 3/4 5 7/8 6 3/4 16 3/4 2 1/2 1 3/4 18 1/2 5/8 48 1 1/8 1/2 8.0 2M 1 1/8 4 1/2 3 3/4 5 7/8 6 3/4 16 3/4 2 1/2 1 3/4 18 1/2 48 5/8 24 1/2 8.0 48 1 1/8 5/8 4 1/2 3 3/4 5 7/8 6 3/4 16 3/4 2 1/2 1 3/4 18 1/2 24 1/2 8.0 4 1/2 3 3/4 4 48 24 1 1/8 1/2 5/8 5 % 6  $\frac{3}{4}$  | 16  $\frac{3}{4}$  | 2  $\frac{1}{2}$  | 1  $\frac{3}{4}$  | 18  $\frac{1}{2}$ 8.0 5 48 24 | 1  $\frac{7}{8}$ 1/2 5/8 4 1/2 | 3 3/4 | 5 7/8 | 6 3/4 | 16 3/4 | 2 1/2 | 1 3/4 | 18 1/2 | 6 8.0

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Raw

SHEET NO:

For State Traffic Engineer

DATE 1/26/2023 PLATE NO. G20-2A.10

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\G202A.dgn

HWY:

PROJECT NO:

PLOT DATE: 26-JAN 2023 8:27

PLOT BY : dotc4c

PLOT NAME :

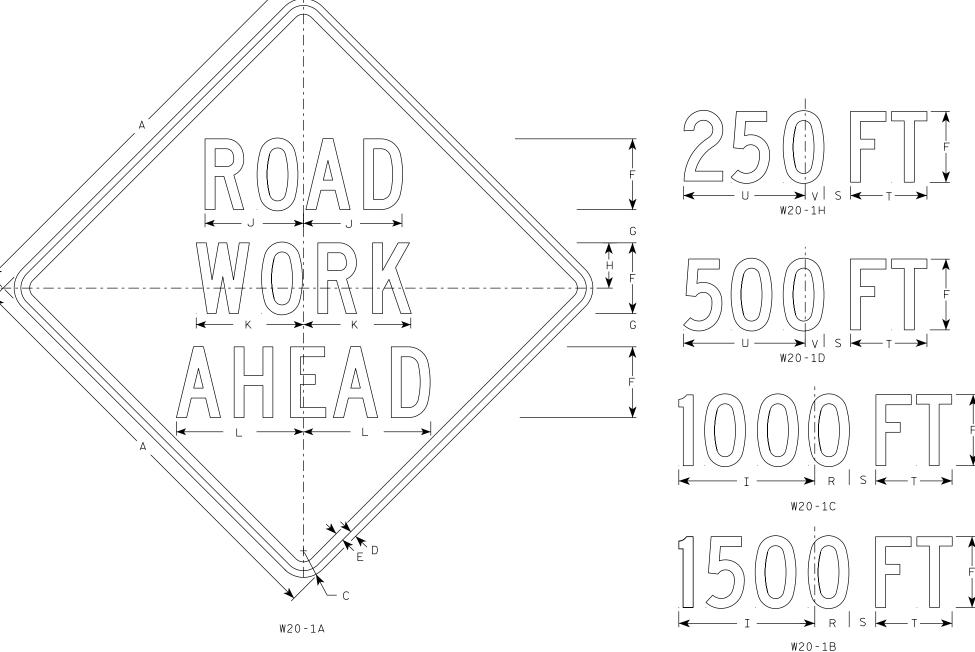
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

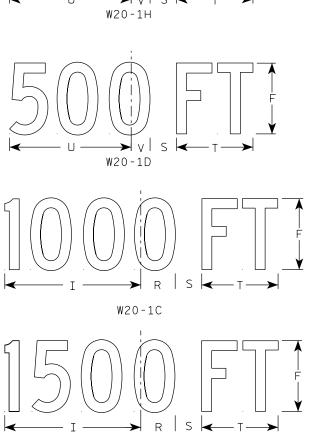
#### NOTES

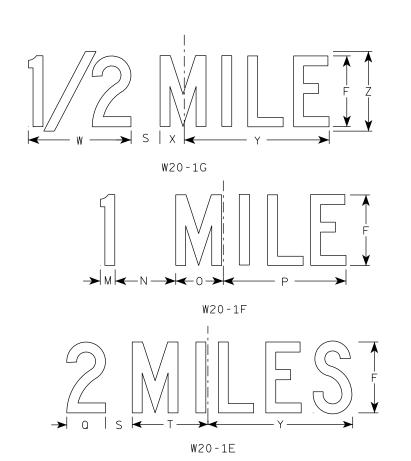
- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

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







SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 1/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
25	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
2M	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 %	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 ¾	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 ¾	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 ¾	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN W2O-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED  $f_{\it or}$  State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-1.12

SHEET NO:

PROJECT NO:

Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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