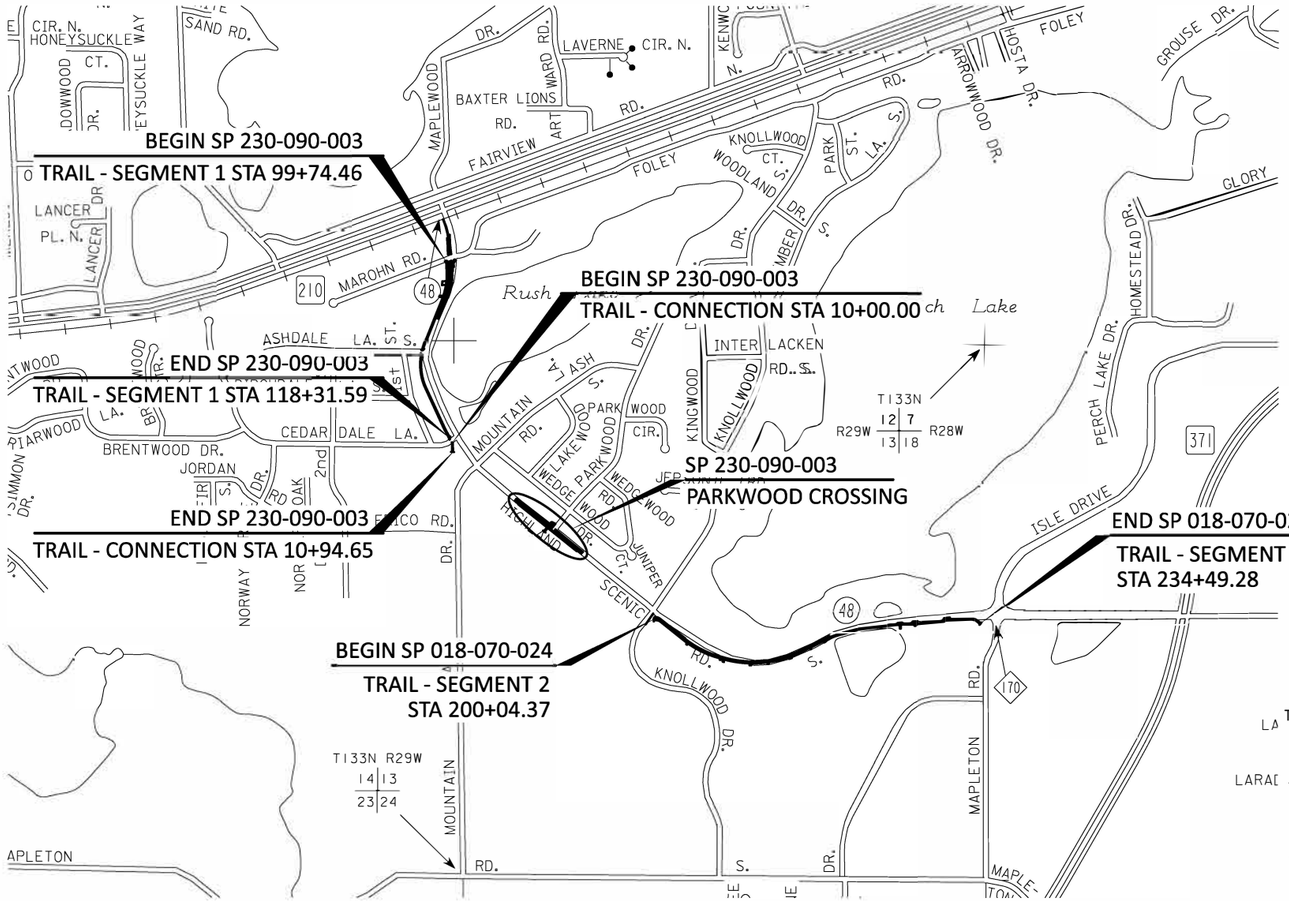
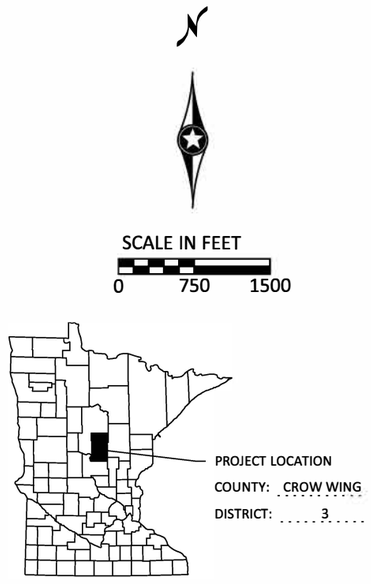
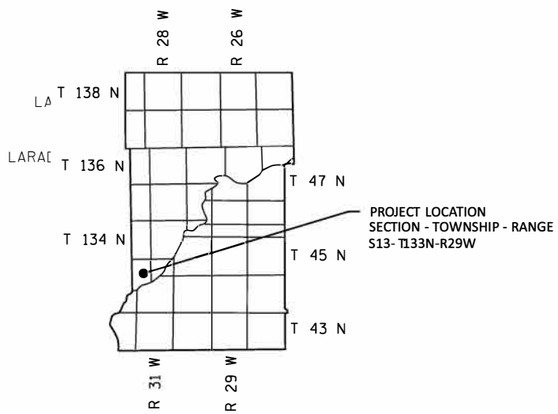
MINNESOTA DEPARTMENT OF TRANSPORTATION
CITY OF BAXTER

CONSTRUCTION PLAN FOR GRADING, BITUMINOUS TRAIL SURFACING, STORM SEWER, RETAINING WALL AND ADA IMPROVEMENTS
LOCATED ON CSAH 48 FROM MAROHN ROAD SOUTH TO ISLE DRIVE





CROW WING COUNTY



MINN PROJ. NO. HSIP-TA 1826(281)

GOVERNING SPECIFICATIONS

THE 2025 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST EDITION OF THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

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THIS PLAN CONTAINS 127 SHEETS

ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITHIN THE CONSTRUCTION OF THIS PROJECT.

wsb

DESIGN ENGINEER: I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: MARCUS VANDERBRUG, PE
LICENSE NUMBER 56164
Marcus Vanderbrug 4-20-26

APPROVED: CITY OF BAXTER ENGINEER
S. Watt 4/20/26

APPROVED: For CROW WING COUNTY ENGINEER
Robert Hall 4/23/26

DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE AND FEDERAL AID RULES/POLICY

FOR STATE AID ENGINEER: APPROVED FOR STATE AND FEDERAL AID FUNDING

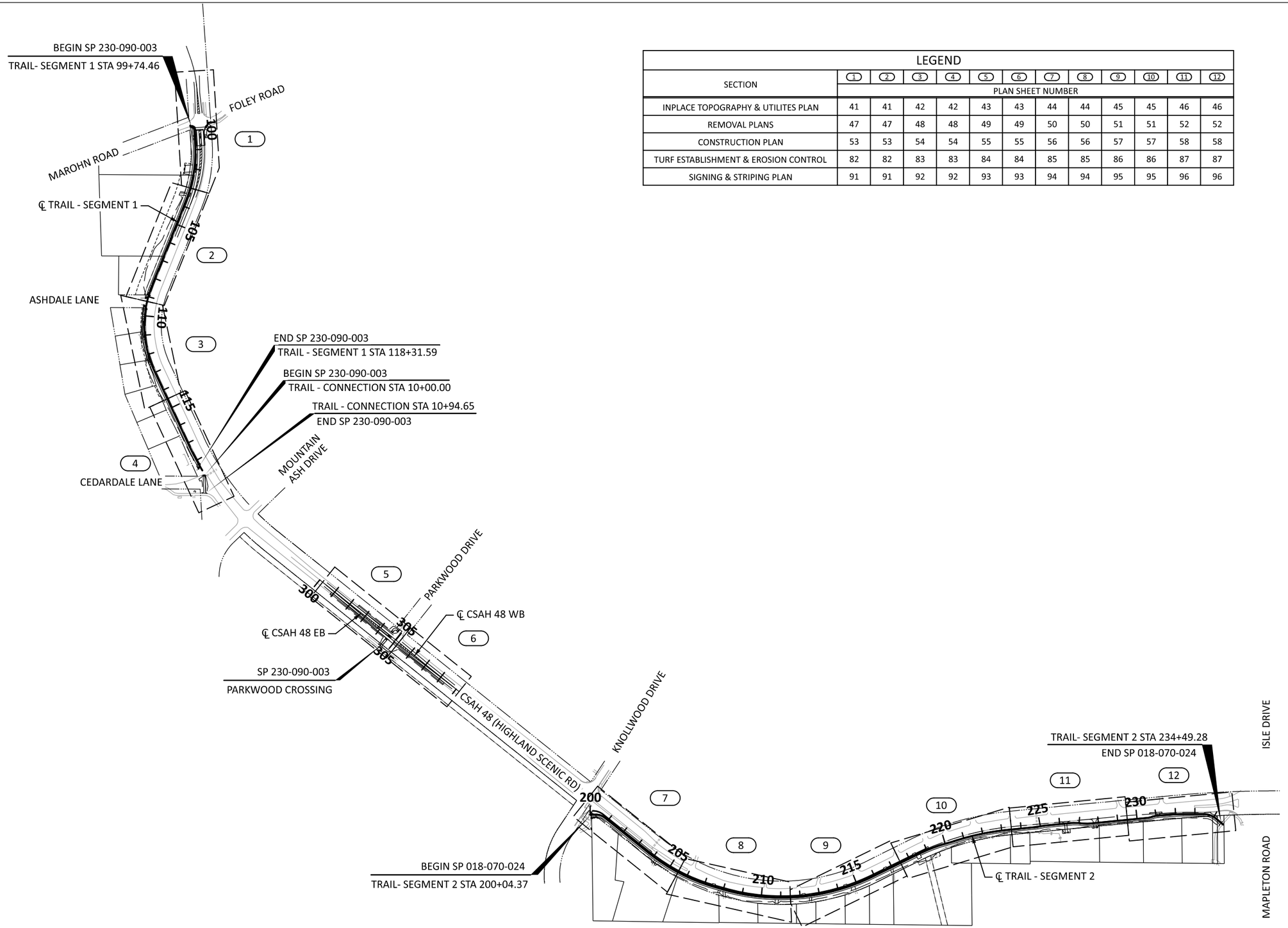
NOTE:
THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22 ENTITLED STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES.

DESIGN DESIGNATION	CSAH 48 SP 230-090-003
STATION RANGE	99+74.46 - 100+80.22 300+88.40 - 308+31.40
GROSS LENGTH	848.76 FT
R VALUE	50
ADT (CURRENT YEAR) 2026	4,610
ADT (FUTURE YEAR) 2046	10,530
D (DIRECTIONAL DISTR.)	50/50
HEAVY COMMERCIAL	426
ESALS	886,000
DESIGN SPEED	40
BASED ON SIGHT DISTANCE	STOPPING
HEIGHT OF EYE / HEIGHT OF OBJECT	3. 5'/2.0'
FUNCTIONAL CLASS	MAJOR COLLECTOR
NO. OF TRAFFIC LANES	2
NO. OF PARKING LANES	0
SHOULDER WIDTH	5' - 8'
TON DESIGN	10
DESIGN SPEED NOT ACHEIVED AT	NA

DESIGN DESIGNATION	TRAIL SP 230-090-003	TRAIL SP 018-070-024
STATION RANGE	99+74.46 - 118+31.59 10+00.00 - 10+94.65	200+04.37 - 234+49.28
GROSS LENGTH	1,951.78 FT	3, 444.91FT
DESIGN SPEED	20 MPH	20 MPH
BASED ON SIGHT DISTANCE	STOPPING	STOPPING
HEIGHT OF EYE / HEIGHT OF OBJECT	4.5'/0.0'	4.5'/0.0'
DESIGN SPEED NOT ACHEIVED AT		

PLAN REVISIONS		
DATE	SHEET NO.	APPROVER

Date Printed: 4/20/2026
WSB Filename: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-100tsh-001



LEGEND												
SECTION	1	2	3	4	5	6	7	8	9	10	11	12
	PLAN SHEET NUMBER											
INPLACE TOPOGRAPHY & UTILITES PLAN	41	41	42	42	43	43	44	44	45	45	46	46
REMOVAL PLANS	47	47	48	48	49	49	50	50	51	51	52	52
CONSTRUCTION PLAN	53	53	54	54	55	55	56	56	57	57	58	58
TURF ESTABLISHMENT & EROSION CONTROL	82	82	83	83	84	84	85	85	86	86	87	87
SIGNING & STRIPING PLAN	91	91	92	92	93	93	94	94	95	95	96	96

N

SCALE IN FEET
0 250 500

DATE: 4/20/2026 TIME: 9:46:33 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-105gel-001

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

GENERAL LAYOUT

SP 230-090-003 / SP 018-070-024

STATEMENT OF ESTIMATED QUANTITIES

TAB	SHEET	ITEM NUMBER	DESCRIPTION	NOTES	UNITS	PROJECT TOTAL QUANTITY	TA FUNDING SP 230-090-003 TRAIL ROADWAY QUANTITY	HSIP FUNDING SP 018-070-024 TRAIL ROADWAY QUANTITY
		2021.501	MOBILIZATION		LUMP SUM	1	0.44	0.56
A	6	2101.502	GRUBBING	(1)	EACH	60	59	1
A	6	2101.505	GRUBBING	(1)	ACRE	0.1	0.05	0.05
TC, M	19 , 88	2102.503	PAVEMENT MARKING REMOVAL		LIN FT	18085	18085	
M	88	2102.518	PAVEMENT MARKING REMOVAL		SQ FT	192	192	
B	7	2104.502	REMOVE PIPE APRON		EACH	7	4	3
A	6	2104.502	REMOVE GATE VALVE & BOX		EACH	1	1	
A	6	2104.502	REMOVE HYDRANT		EACH	1	1	
B	7	2104.502	REMOVE DRAINAGE STRUCTURE		EACH	1		1
J	88 - 90	2104.502	REMOVE SIGN		EACH	38	20	18
A	6	2104.502	REMOVE BENCH		EACH	1	1	
J	88 - 90	2104.502	SALVAGE SIGN		EACH	2	1	1
B	7	2104.503	REMOVE PIPE CULVERTS		LIN FT	396	55	341
B	7	2104.503	REMOVE SEWER PIPE (STORM)		LIN FT	20		20
A	6	2104.503	REMOVE CURB & GUTTER		LIN FT	382	322	60
A	6	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)		LIN FT	3474	1282	2192
A	6	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		SQ YD	709	287	422
A	6	2104.504	REMOVE BITUMINOUS PAVEMENT		SQ YD	2870	1743	1127
A	6	2104.518	REMOVE CONCRETE WALK		SQ FT	485	485	
A	6	2104.518	REMOVE BITUMINOUS WALK		SQ FT	459	459	
L	90	2104.602	SALVAGE SIGN SPECIAL		EACH	3	3	
F	11	2106.507	EXCAVATION - COMMON	(P)	CU YD	5455	3538	1917
F	11	2106.507	COMMON EMBANKMENT (CV)	(P)	CU YD	6054	824	5230
D	9	2118.507	AGGREGATE SURFACING (CV) CLASS 1		CU YD	29	29	
D	9	2211.507	AGGREGATE BASE (CV) CLASS 5		CU YD	1651	758	893
D	9	2360.504	TYPE SP 9.5 WEAR CRS MIX(3,B) 3.0" THICK		SQ YD	535	207	328
D	9	2360.509	TYPE SP 9.5 BIT MIXTURE FOR PATCHING		TON	147	18	129
D	9	2360.509	TYPE SP 9.5 WEARING COURSE MIX (3,B)		TON	427	367	60
D	9	2360.509	TYPE SP 12.5 NON WEAR COURSE MIX (3,B)		TON	217	186	31
I	74	2501.502	15" CS PIPE APRON		EACH	1	1	
H	74	2501.502	12" RC PIPE APRON		EACH	1		1
H, I	74	2501.502	15" RC PIPE APRON		EACH	4		4
I	74	2501.502	24" RC PIPE APRON		EACH	2	1	1
I	74	2501.503	15" CS PIPE CULVERT		LIN FT	20	20	
I	74	2501.503	15" RC PIPE CULVERT DES 3006 CL V		LIN FT	174		174
I	74	2501.503	24" RC PIPE CULVERT DES 3006 CL V		LIN FT	51	19	32
H	74	2503.503	12" RC PIPE SEWER DES 3006 CL V		LIN FT	86		86
H	74	2503.503	15" RC PIPE SEWER DES 3006 CL V		LIN FT	1573		1573
H, I	74	2503.602	CONNECT TO EXISTING STORM SEWER		EACH	3	1	2
	53 , 57	2503.604	4" INSULATION		SQ YD	502	502	
		2504.602	CONNECT TO EXISTING WATER MAIN		EACH	1	1	
		2504.602	HYDRANT		EACH	1	1	

NOTES

(1) NO TREE SHALL BE GRUBBED WITHOUT THE APPROVAL OF THE ENGINEER.

(2) TO BE USED FOR SANITARY SEWER STRUCTURE.

(3) CONCRETE CURB RAMP WALK TO BE USED FOR ALL PEDESTRIAN RAMPS AND LANDINGS.

(4) HYDRAULIC MULCH MATRIX TO BE USED AS A SOIL ADDITIVE AND MEET THE CRITERIA LISTED IN THE SPECIFICATIONS.

(P) DENOTES PLAN QUANTITY.

BASIS FOR QUANTITIES

UNIT WEIGHT OF BITUMINOUS MIX:
- 2360 MIX.....113 LBS/SY-IN

TACK COAT (INCIDENTAL)
-ALL SURFACES.....0.05 GAL/SY

-FERTILIZER TYPE 1.....350 LBS/ACRE

-FERTILIZER TYPE 3.....200 LBS/ACRE

-HYDRAULIC STABILIZED FIBER MATRIX.....3,900 LBS/ACRE

DATE: 4/20/2026 TIME: 9:46:44 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-110est-001

DRAWN BY: AS
DESIGNED BY: MKV
CHECKED BY: JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

ESTIMATED QUANTITIES

SP 230-090-003 / SP 018-070-024

STATEMENT OF ESTIMATED QUANTITIES

TAB	SHEET	ITEM NUMBER	DESCRIPTION	NOTES	UNITS	PROJECT TOTAL QUANTITY	TA FUNDING SP 230-090-003 TRAIL ROADWAY QUANTITY	HSIP FUNDING SP 018-070-024 TRAIL ROADWAY QUANTITY
A	6	2504.602	ADJUST GATE VALVE		EACH	3	3	
		2504.602	6" GATE VALVE & BOX		EACH	1	1	
		2504.603	6" WATERMAIN DUCTILE IRON CL 52		LIN FT	12	12	
G,I	74	2506.502	CASTING ASSEMBLY		EACH	18		18
G,I	74	2506.503	CONST DRAINAGE STRUCTURE DESIGN H		LIN FT	22		22
I	74	2506.503	CONST DRAINAGE STRUCTURE DESIGN I		LIN FT	2		2
G	74	2506.503	CONST DRAINAGE STRUCTURE DESIGN SD-48		LIN FT	10		10
G	74	2506.503	CONST DRAINAGE STRUCTURE DESIGN SD-60		LIN FT	3		3
G	74	2506.503	CONST DRAINAGE STRUCTURE DESIGN SPEC 1		LIN FT	9		9
G	74	2506.503	CONST DRAINAGE STRUCTURE DES 48-4020		LIN FT	26		26
A	6	2506.602	RECONSTRUCT DRAINAGE STRUCTURE SPECIAL	(2)	EACH	1	1	
C	8	2521.518	4" CONCRETE WALK		SQ FT	1468	1468	
		2521.518	6" CONCRETE WALK		SQ FT	206	206	
C	8	2521.518	8" CONCRETE WALK SPECIAL		SQ FT	305	305	
D	9	2521.518	3" BITUMINOUS WALK		SQ FT	55283	19638	35645
C	8	2521.602	DRILL & GROUT REINF BAR (EPOXY COATED)		EACH	57	57	
C	8	2521.618	CONCRETE CURB RAMP WALK	(3)	SQ FT	1680	1680	
C	8	2531.503	CONCRETE CURB & GUTTER DESIGN B412		LIN FT	152	152	
C	8	2531.503	CONCRETE CURB & GUTTER DESIGN B424		LIN FT	1972		1972
C	8	2531.503	CONCRETE CURB & GUTTER DESIGN B612		LIN FT	96	96	
C	8	2531.503	CONCRETE CURB & GUTTER DESIGN B618		LIN FT	395	395	
C	8	2531.504	6" CONCRETE DRIVEWAY PAVEMENT		SQ YD	170	37	133
C	8	2531.504	8" CONCRETE DRIVEWAY PAVEMENT		SQ YD	66		66
C	8	2531.618	TRUNCATED DOMES		SQ FT	332	332	
H, I	74	2554.502	GUIDE POST TYPE B		EACH	13	2	11
		2563.601	TRAFFIC CONTROL		LUMP SUM	1	0.44	0.56
TC	19	2563.613	PORTABLE CHANGEABLE MESSAGE SIGN		UNIT DAY	42	42	
J	88 - 90	2564.602	INSTALL SIGN		EACH	2	1	1
L	90	2564.602	INSTALL SIGN SPECIAL		EACH	3	3	
J	88 - 90	2564.602	DELINEATOR / MARKER PANEL		EACH	5	5	
J	88 - 90	2564.618	SIGN		SQ FT	395	209	186
		2573.501	STABILIZED CONSTRUCTION EXIT		LUMP SUM	1	1	1
E	10	2573.502	STORM DRAIN INLET PROTECTION		EACH	21	5	16
E	10	2573.502	CULVERT END CONTROLS		EACH	5	1	4
E	10	2573.503	SILT FENCE, TYPE MS		LIN FT	4472	1958	2514
E	10	2574.505	SOIL BED PREPARATION		ACRE	3.8	1.5	2.3

NOTES

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(2) TO BE USED FOR SANITARY SEWER STRUCTURE.

(3) CONCRETE CURB RAMP WALK TO BE USED FOR ALL PEDESTRIAN RAMPS AND LANDINGS.

(4) HYDRAULIC MULCH MATRIX TO BE USED AS A SOIL ADDITIVE AND MEET THE CRITERIA LISTED IN THE SPECIFICATIONS.

(P) DENOTES PLAN QUANTITY.

BASIS FOR QUANTITIES

UNIT WEIGHT OF BITUMINOUS MIX:
- 2360 MIX.....113 LBS/SY-IN

TACK COAT (INCIDENTAL)
-ALL SURFACES.....0.05 GAL/SY

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-FERTILIZER TYPE 3.....200 LBS/ACRE

-HYDRAULIC STABILIZED FIBER MATRIX.....3,900 LBS/ACRE

DATE: 4/20/2026 TIME: 9:46:45 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-110est-001

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

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DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

ESTIMATED QUANTITIES

SP 230-090-003 / SP 018-070-024

STATEMENT OF ESTIMATED QUANTITIES

TAB	SHEET	ITEM NUMBER	DESCRIPTION	NOTES	UNITS	PROJECT TOTAL QUANTITY	TA FUNDING SP 230-090-003 TRAIL ROADWAY QUANTITY	HSIP FUNDING SP 018-070-024 TRAIL ROADWAY QUANTITY
E	10	2574.508	FERTILIZER TYPE 1		POUND	365	90	275
E	10	2574.508	FERTILIZER TYPE 3		POUND	445	202	243
E	10	2575.504	ROLLED EROSION PREVENTION CATEGORY 80A		SQ YD	12		12
E	10	2575.505	SEEDING		ACRE	3.8	1.5	2.3
E	10	2575.508	HYDRAULIC MULCH MATRIX	(4)	POUND	11132	4305	6827
E	10	2575.508	HYDRAULIC STABILIZED FIBER MATRIX		POUND	24795	9591	15204
E	10	2575.608	SEED SOUTHERN BOULEVARD		POUND	174	44	130
E	10	2575.608	SEED TURFGRASS		POUND	445	202	243
TC	19	2581.503	4" REMOVABLE PREFORM PAVEMENT MARKING TAPE WR		LIN FT	4812	4812	
TC	19	2581.503	6" REMOVABLE PREFORM PAVEMENT MARKING TAPE WR		LIN FT	7717	7717	
TC	19	2581.603	REMOVABLE PREFORMED PLASTIC MASK (BLACK)		LIN FT	4725	4725	
M	88	2582.503	4" SOLID LINE MULTI COMP GR IN (WR)		LIN FT	5476	5476	
M	88	2582.503	12" SOLID LINE MULTI COMP GR IN (WR)		LIN FT	305	305	
M	88	2582.503	24" SOLID LINE MULTI COMP GR IN (WR)		LIN FT	199	199	
M	88	2582.503	4" BROKEN LINE MULTI COMP GR IN (WR)		LIN FT	24	24	
M	88	2582.503	4" DBLE SOLID LINE MULTI COMP GR IN (WR)		LIN FT	3265	3265	
M	88	2582.518	PAVT MSSG MULTI COMP GR IN (WR)		SQ FT	78	78	

NOTES

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BASIS FOR QUANTITIES

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DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

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SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

ESTIMATED QUANTITIES

SP 230-090-003 / SP 018-070-024

REMOVALS TABULATION

A

LOCATION	GRUBBING	GRUBBING	REMOVE BITUMINOUS PAVEMENT	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	REMOVE CONCRETE WALK	REMOVE BITUMINOUS WALK	REMOVE CURB AND GUTTER	SAWING BIT PAVEMENT (FULL DEPTH)	REMOVE BENCH	ADJUST GATE VALVE	REMOVE HYDRANT	REMOVE GATE VALVE & BOX	RECONSTRUCT DRAINAGE STRUCTURE SPECIAL
	ACRE	EACH	SQ YD	SQ YD	SQ FT	SQ FT	LIN FT	LIN FT	EACH	EACH	EACH	EACH	EACH
SP 230-090-003													
TRAIL SEGMENT 1													
STA 99+74.46 TO STA 103+00		8	474	216	462		213	231					
STA 103+00 TO STA 109+25		50	12	71			49	60		2	1	1	1
STA 109+25 TO STA 114+50	0.04		8				30	38					
STA 114+50 TO STA 118+31.59	0.01		8				30	37					
SUBTOTAL TRAIL SEGMENT 1	0.05	58	502	287	462		322	366		2	1	1	1
CONNECTIONS & CROSSINGS													
TRAIL CONNECTION													
STA 10+00.00 TO STA 10+94.65													
PARKWOOD CROSSING													
TRAIL CONNECTION													
STA 20+00 TO STA 20+49.35		1			23	459			1				
TRAIL CONNECTION													
STA 300+00 TO 305+19.64			971					596		1			
STA 305+19.64 TO STA 309+21.80			270					320					
SUBTOTAL CONNECTIONS & CROSSINGS		1	1241		23	459		916	1	1			
SUBTOTAL SP 230-090-003	0.05	59	1743	287	485	459	322	1282	1	3	1	1	1
SP 018-070-024													
TRAIL SEGMENT 2													
STA 200+04.37 TO STA 205+50	0.01		327	41			60	567					
STA 205+50 TO STA 211+50	0.01		310	170				638					
STA 211+50 TO STA 217+50			356	141				660					
STA 217+50 TO STA 223+50	0.03	1	87					190					
STA 223+50 TO STA 229+50				70				62					
STA 229+50 TO STA 234+49.28			47					75					
SUBTOTAL SP 018-070-024	0.05	1	1127	422			60	2192					
PROJECT TOTAL	0.10	60	2870	709	485	459	382	3474	1	3	1	1	1

EXISTING STORM SEWER TABULATION

B

EX. STR. NUMBER	DRAINS TO	ALIGNMENT	STATION	OFFSET	INVERT	STR. TYPE	PIPE TYPE	REMOVE			
								PIPE CULVERTS	PIPE APRON	DRAINAGE STURCTURE	SEWER PIPE (STORM)
								LIN FT	EACH	EACH	LIN FT
SP 230-090-003											
4000	4001	TRAIL_PARKWOOD	20+29.96	18.53' RT	1203.75	FES	CMP	55	1		
4001	DITCH	TRAIL_PARKWOOD	20+29.97	73.24' RT	1203.64	FES	CMP		1		
4018	4019	TRAIL-CONNECT	10+13.20	6.54' RT	1204.31	FES	RCP		1		
4019	DITCH	TRAIL-CONNECT	9+75.0	61.3' LT							
4020	4021	CSAH 48 WB	304+71.88	41.02' LT	1203.70	FES	CMP		1		
4021	DITCH	CSAH 48 WB	305+26.79	41.8' LT		FES	CMP				
SP 230-090-003 SUBTOTALS								55	4		
SP 018-070-024											
4002	4003	TRAIL-SEG2	204+43.63	11.81' RT	1203.50	FES	CMP	50			
4003	DITCH	TRAIL-SEG2	203+67.91	8.66' RT	1202.73	FES	CMP				
4004	4005	TRAIL-SEG2	211+03.77	15.14' RT	1202.56	FES	CMP	40			
4005	DITCH	TRAIL-SEG2	210+64.4	15.47' RT	1202.35	FES	CMP				
4006	4007	TRAIL-SEG2	212+78.17	15.03' RT	1201.84	FES	CMP	50			
4007	DITCH	TRAIL-SEG2	212+28.66	14.22' RT	1201.69	FES	CMP				
4008	4009	TRAIL-SEG2	214+51.45	14.98' RT	1200.93	FES	CMP	51			
4009	DITCH	TRAIL-SEG2	215+01.27	14.69' RT	1200.56	FES	CMP				
4010	4011	TRAIL-SEG2	216+71.13	14.97' RT	1198.60	FES	CMP	50			
4011	DITCH	TRAIL-SEG2	217+21.35	14.52' RT	1197.12	FES	CMP				
4012	4013	TRAIL-SEG2	226+10.77	12.94' RT	1191.88	FES	CMP	40			
4012	DITCH	TRAIL-SEG2	226+50.59	11.56' RT	1191.66	FES	CMP				
4014	4015	TRAIL-SEG2	227+93.72	0.53' LT	1195.14	FES	CMP	42			
4015	DITCH	TRAIL-SEG2	227+51.82	0.67' RT	1194.29	FES	CMP				
4016	4017	TRAIL-SEG2	231+23.50	5.75' LT		CB	RCP			1	
4017	DITCH	TRAIL-SEG2	231+05.58	2.17' RT		FES	RCP		1		20
4022	4023	TRAIL-SEG2	203+67.82	8.31' RT	1203.60	FES	RCP	18	1		
4023	DITCH	TRAIL-SEG2	203+68.15	93.78' LT		FES	RCP				
4024	4025	TRAIL-SEG2	224+82.09	12.65' RT	1188.45	FES	RCP		1		
4025	DITCH	TRAIL-SEG2	224+91.74	89.71' LT		FES	RCP				
SP 018-070-024 SUBTOTALS								341	3	1	20
PROJECT TOTAL								396	7	1	20

CONCRETE TABULATION

C

LOCATION	CURB AND GUTTER DESIGN B424	CURB AND GUTTER DESIGN B412	CURB AND GUTTER DESIGN B612	CURB AND GUTTER DESIGN B618	4" CONCRETE WALK	CONCRETE CURB RAMP WALK	6" CONCRETE WALK	8" CONCRETE WALK SPECIAL	6" CONCRETE DRIVEWAY PAVEMENT	8" CONCRETE DRIVEWAY PAVEMENT	TRUNCATED DOMES	Drill & GROUT REINF BARS (EPOXY COATED)
	LIN FT	LIN FT	LIN FT	LIN FT	SQ FT	SQ FT	SQ FT	SQFT	SQ YD	SQ YD	SQ FT	SQ FT
SP 230-090-003												
TRAIL SEGMENT 1												
STA 99+74.46 TO STA 103+00			96	283	765	658	103		26		104	24
STA 103+00 TO STA 109+25				50		195			11		36	6
STA 109+25 TO STA 114+50				31		203					36	6
STA 114+50 TO STA 118+31.59				31		193					36	6
SUBTOTAL TRAIL SEGMENT 1			96	395	765	1249	103		37		212	42
CONNECTIONS & CROSSINGS												
TRAIL CONNECTION												
STA 10+00.00 TO STA 10+94.65						71					20	3
PARKWOOD CROSSING												
CSAH 48 EB												
STA 300+00 TO 305+19.64		152			703	360	103	305			100	12
STA 305+19.64 TO STA 309+21.80												
SUBTOTAL CONNECTIONS & CROSSINGS		152			703	431	103	305			120	15
SUBTOTAL SP 230-090-003		152	96	395	1468	1680	206	305	37		332	57
SP 018-070-024												
TRAIL SEGMENT 2												
STA 200+04.37 TO STA 205+50	563								21			
STA 205+50 TO STA 211+50	615								50			
STA 211+50 TO STA 217+50	616								62			
STA 217+50 TO STA 223+50	163									66		
STA 223+50 TO STA 229+50												
STA 229+50 TO STA 234+49.28	15											
SUBTOTAL SP 018-070-024	1972								133	66		
PROJECT TOTAL	1972	152	96	395	1468	1680	206	305	170	66	332	57

BITUMINOUS & AGGREGATE TABULATION

D

LOCATION	TYPE SP 9.5 WEARING COURSE MIX (3,B) (SPWEA340B)	TYPE SP 12.5 NON-WEAR COURSE MIX (3,B) (SPNWB330B)	TYPE SP 9.5 WEARING COURSE MIX (3,B) 3.0" THICK	TYPE SP 9.5 BITUMINOUS MIXTURE FOR PATCHING	3" BITUMINOUS WALK	AGGREGATE BASE (CV) CLASS 5	AGGREGATE SURFACING (CV) CL 1
	TONS	TONS	SQ YD	TON	SQFT	CU YD	CU YD
SP 230-090-003							
TRAIL SEGMENT 1							
STA 99+74.46 TO STA 103+00	92	47	158	4	2897	192	
STA 103+00 TO STA 109+25			49	5	6539	136	
STA 109+25 TO STA 114+50				4	4968	97	
STA 114+50 TO STA 118+31.59				4	3815	75	
SUBTOTAL TRAIL SEGMENT 1	92	47	207	18	18219	500	
CONNECTIONS & CROSSINGS							
TRAIL CONNECTION							
STA 10+00.00 TO STA 10+94.65					935	19	
PARKWOOD CROSSING							
CSAH 48 EB							
STA 300+00 TO 305+19.64	210	106			484	191	19
STA 305+19.64 TO STA 309+21.80	65	33				48	10
SUBTOTAL CONNECTIONS & CROSSINGS	275	139			1419	258	29
SUBTOTAL SP 230-090-003	367	186	207	18	19638	758	29
SP 018-070-024							
TRAIL SEGMENT 2							
STA 200+04.37 TO STA 205+50	31	15	18	28	5647	165	
STA 205+50 TO STA 211+50	3	2	82	46	6208	171	
STA 211+50 TO STA 217+50	8	4	79	44	6202	176	
STA 217+50 TO STA 223+50	6	3		11	6163	135	
STA 223+50 TO STA 229+50			149		6180	140	
STA 229+50 TO STA 234+49.28	11	6			5245	106	
SUBTOTAL SP 018-070-024	60	31	328	129	35645	893	
PROJECT TOTAL	427	217	535	147	55283	1651	29

EROSION CONTROL & TURF ESTABLISHMENT

E

LOCATION	SOIL BED PREPARATION	SEEDING	FERTILIZER		SEED		HYDRAULIC MULCH MATRIX	HYDRAULIC STABILIZED FIBER MATRIX	ROLLED EROSION PREVENTION CATEGORY 80A	STORM DRAIN INLET PROTECTION	CULVERT END CONTROLS	SILT FENCE, TYPE MS
			TYPE 1	TYPE 3	SOUTHERN BOULEVARD	TURFGRASS						
	ACRE	ACRE	POUND	POUND	POUND	POUND	POUND	POUND	SQ YD	EACH	EACH	LIN FT
SP 230-090-003												
TRAIL SEGMENT 1												
STA 99+74.46 TO STA 103+00	0.2	0.2	15	19	7	19	466	1037		1		132
STA 103+00 TO STA 109+25	0.6	0.6	30	94	15	94	1925	4290		2		55
STA 109+25 TO STA 114+50	0.2	0.2	26	28	13	28	712	1587		2		385
STA 114+50 TO STA 118+31.59	0.1	0.1	19	9	9	9	333	742				55
SUBTOTAL TRAIL SEGMENT 1	1.1	1.1	90	150	44	150	3436	7656		5		627
CONNECTIONS & CROSSINGS												
TRAIL CONNECTION												
STA 10+00.00 TO STA 10+94.65	0.1	0.1		9		9	136	302			1	242
PARKWOOD CROSSING												
CSAH 48 EB												
STA 300+00 TO 305+19.64	0.2	0.2		33		33	563	1254				726
STA 305+19.64 TO STA 309+21.80	0.1	0.1		10.0		9.9	170	379				363
SUBTOTAL CONNECTIONS & CROSSINGS	0.4	0.4		52		52	869	1935			1	1331
SUBTOTAL SP 230-090-003	1.5	1.5	90	202	44	202	4305	9591		5	1	1958
SP 018-070-024												
TRAIL SEGMENT 2												
STA 200+04.37 TO STA 205+50	0.2	0.2	32	22	16	22	687	1532		3		
STA 205+50 TO STA 211+50	0.3	0.3	29	48	14	48	1106	2462		3	1	248
STA 211+50 TO STA 217+50	0.3	0.3	29	41	14	41	983	2187		6		
STA 217+50 TO STA 223+50	0.7	0.7	59	79	28	79	1935	4312	12	3		1529
STA 223+50 TO STA 229+50	0.4	0.4	82	28	38	28	1278	2845			3	737
STA 229+50 TO STA 234+49.28	0.3	0.3	44	25	20	25	838	1866		1		
SUBTOTAL SP 018-070-024	2.3	2.3	275	243	130	243	6827	15204	12	16	4	2514
PROJECT TOTAL	3.9	3.9	365	445	174	445	11132	24795	12	21	5	4472

DATE: 4/20/2026 TIME: 9:46:57 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-130tab-001

DRAWN BY: AS
DESIGNED BY: MKV
CHECKED BY: JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

QUANTITY TABULATIONS

SP 230-090-003 / SP 018-070-024

EARTHWORK TABULATION		F
	EXCAVATION	EMBANKMENT
STATION	COMMON	COMMON
	(CU YD)	(CU YD)
SP 230-090-003		
CSAH 48		
300+00.000 TO 301+00.000	2	
301+00.000 TO 301+50.000	8	
301+50.000 TO 302+00.000	8	
302+00.000 TO 302+50.000	9	
302+50.000 TO 303+00.000	16	
303+00.000 TO 303+50.000	16	
303+50.000 TO 304+00.000	21	
304+00.000 TO 304+50.000	43	17
304+50.000 TO 305+00.000	57	13
305+00.000 TO 305+50.000	8	
305+50.000 TO 306+00.000	8	
306+00.000 TO 306+50.000	8	
306+50.000 TO 307+00.000	8	
307+00.000 TO 307+50.000	8	
307+50.000 TO 308+00.000	8	
308+00.000 TO 308+50.000	5	
SUBTOTAL CSAH 48	233	30

EARTHWORK TABULATION		F
	EXCAVATION	EMBANKMENT
STATION	COMMON	COMMON
	(CU YD)	(CU YD)
TRAIL SEGMENT 1		
100+00.000 TO 100+50.000	79	11
100+50.000 TO 101+00.000	92	15
101+00.000 TO 101+50.000	56	14
101+50.000 TO 102+00.000	75	14
102+00.000 TO 102+50.000	90	14
102+50.000 TO 103+00.000	65	16
103+00.000 TO 103+50.000	71	15
103+50.000 TO 104+00.000	78	19
104+00.000 TO 104+50.000	109	24
104+50.000 TO 105+00.000	132	28
105+00.000 TO 105+50.000	140	30
105+50.000 TO 106+00.000	110	28
106+00.000 TO 106+50.000	174	39
106+50.000 TO 107+00.000	301	48
107+00.000 TO 107+50.000	310	46
107+50.000 TO 108+00.000	271	42
108+00.000 TO 108+50.000	194	38
108+50.000 TO 109+00.000	79	18
109+00.000 TO 110+00.000	23	5
110+00.000 TO 110+50.000	26	10
110+50.000 TO 111+00.000	24	15
111+00.000 TO 111+50.000	17	21
111+50.000 TO 112+00.000	24	13
112+00.000 TO 112+50.000	59	14
112+50.000 TO 113+00.000	118	23
113+00.000 TO 113+50.000	139	24
113+50.000 TO 114+00.000	118	22
114+00.000 TO 114+50.000	68	17
114+50.000 TO 115+00.000	46	12
115+00.000 TO 115+50.000	39	10
115+50.000 TO 116+00.000	33	9
116+00.000 TO 116+50.000	29	8
116+50.000 TO 117+00.000	27	8
117+00.000 TO 117+50.000	24	8
117+50.000 TO 118+00.000	22	8
118+00.000 TO 118+50.000	13	4
118+50.000 TO 119+00.000	30	104
SUBTOTAL SEGMENT 1	3305	794
SUBTOTAL SP 230-090-003	3538	824

EARTHWORK TABULATION		F
	EXCAVATION	EMBANKMENT
STATION	COMMON	COMMON
	(CU YD)	(CU YD)
SP 018-070-024		
TRAIL SEGMENT 2		
200+00.000 TO 200+50.000	22	
200+50.000 TO 201+00.000	27	17
201+00.000 TO 201+50.000	24	51
201+50.000 TO 202+00.000	23	60
202+00.000 TO 202+50.000	23	53
202+50.000 TO 203+00.000	23	55
203+00.000 TO 203+50.000	24	69
203+50.000 TO 204+00.000	26	59
204+00.000 TO 204+50.000	24	33
204+50.000 TO 205+00.000	24	83
205+00.000 TO 205+50.000	24	88
205+50.000 TO 206+00.000	22	97
206+00.000 TO 206+50.000	23	98
206+50.000 TO 207+00.000	23	96
207+00.000 TO 207+50.000	24	84
207+50.000 TO 208+00.000	22	27
208+00.000 TO 208+50.000	27	76
208+50.000 TO 209+00.000	34	176
209+00.000 TO 209+50.000	33	184
209+50.000 TO 210+00.000	28	153
210+00.000 TO 210+50.000	25	129
210+50.000 TO 211+00.000	20	50
211+00.000 TO 211+50.000	23	85
211+50.000 TO 212+00.000	24	102
212+00.000 TO 212+50.000	28	78
212+50.000 TO 213+00.000	27	48
213+00.000 TO 213+50.000	24	104
213+50.000 TO 214+00.000	24	106
214+00.000 TO 214+50.000	26	107
214+50.000 TO 215+00.000	24	31
215+00.000 TO 215+50.000	24	97
215+50.000 TO 216+00.000	23	102
216+00.000 TO 216+50.000	24	101
216+50.000 TO 217+00.000	22	58
217+00.000 TO 217+50.000	23	79
217+50.000 TO 218+00.000	46	119
218+00.000 TO 218+50.000	55	107
218+50.000 TO 219+00.000	49	157
219+00.000 TO 219+50.000	29	165
219+50.000 TO 220+00.000	25	111
220+00.000 TO 220+50.000	31	72
220+50.000 TO 221+00.000	33	47
221+00.000 TO 221+50.000	31	39
221+50.000 TO 222+00.000	33	26
222+00.000 TO 222+50.000	38	29
222+50.000 TO 223+00.000	42	30
223+00.000 TO 223+50.000	41	25
223+50.000 TO 224+00.000	30	34

EARTHWORK TABULATION		F
	EXCAVATION	EMBANKMENT
STATION	COMMON	COMMON
	(CU YD)	(CU YD)
224+00.000 TO 224+50.000	24	69
224+50.000 TO 225+00.000	23	65
225+00.000 TO 225+50.000	27	38
225+50.000 TO 226+00.000	27	40
226+00.000 TO 226+50.000	43	24
226+50.000 TO 227+00.000	23	79
227+00.000 TO 227+50.000	23	106
227+50.000 TO 228+00.000	53	33
228+00.000 TO 228+50.000	38	73
228+50.000 TO 229+00.000	36	76
229+00.000 TO 229+50.000	35	85
229+50.000 TO 230+00.000	34	89
230+00.000 TO 230+50.000	34	91
230+50.000 TO 231+00.000	21	93
231+00.000 TO 231+50.000	18	73
231+50.000 TO 232+00.000	16	66
232+00.000 TO 232+50.000	17	74
232+50.000 TO 233+00.000	18	76
233+00.000 TO 233+50.000	17	78
233+50.000 TO 234+00.000	18	78
234+00.000 TO 234+50.000	28	27
SUBTOTAL SP 018-070-024	1917	5230
PROJECT TOTAL	5455	6054

NOTES:

1. THE EXCAVATION - COMMON QUANTITY INCLUDES TOPSOIL STRIPPING.
2. TOPSOIL PLACEMENT IS INCLUDED IN COMMON EMBANKMENT.
3. PLACING, HAULING AND DISPOSING OF EXCAVATED MATERIALS IS CONSIDERED INCIDENTAL.
4. ALL STOCKPILE AREAS SHALL BE APPROVED BY THE ENGINEER.
5. SOILS NOT USED ON THE PROJECT SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE OF THE RIGHT OF WAY. NO DIRECT COMPENSATION WILL BE PAID FOR THE PREPARATION OF AN ACCEPTABLE DISPOSAL PLAN OR FOR OFF-PROJECT DISPOSAL OF MATERIALS. DISPOSAL SITES SHALL BE LEFT IN A WELL-GRADED CONDITION WITH ALL SOLID WASTES ADEQUATELY COVERED.
6. UNLESS DIRECTED BY THE PROJECT ENGINEER, ANY MATERIAL THAT IS FOUND TO BE UNNECESSARY FOR THE CONSTRUCTION OF THE TRAIL EMBANKMENT AND DISPOSAL OF SAME BECOMES NECESSARY, ON OR OFF THE PROJECT, THE DISPOSAL AND ALL RELATED ITEMS WILL BE CONSIDERED INCIDENTAL.

DATE: 4/20/2026 TIME: 9:47:05 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-120ews-001

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

EARTHWORK TABULATION

SP 230-090-003 / SP 018-070-024

Sheet No. 11 of 100 Sheets

CONSTRUCTION AND SOIL NOTES

1. TOP OF THE GRADING GRADE IS DEFINED AS THE BOTTOM OF THE CLASS 5 AGGREGATE BASE.
2. WHERE CONNECTING TO IN-PLACE ROADWAYS AT THE TERMINI OF PROPOSED NEW CONSTRUCTION, CUT VERTICALLY TO THE BOTTOM OF THE IN-PLACE SURFACING, THEN AT A 1(V):20(H) TAPER TO THE BOTTOM OF THE RECOMMENDED SUBGRADE EXCAVATION.
3. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF PRIVATE UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF PRIVATE UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR WILL CALL GOPHER STATE ONE A MINIMUM OF 48 HOURS (EXCLUDING THE DAY OF NOTIFICATION, SATURDAYS, SUNDAYS, AND HOLIDAYS), AND UP TO 14 CALENDAR DAYS, BEFORE STARTING EXCAVATION OPERATIONS. THE 48-HOUR LOCATE PERIOD BEGINS AT 12:01 A.M. ON THE CALENDAR DAY AFTER THE EXCAVATOR FILES THE TICKET.
4. THE CONSTRUCTION LIMITS AS SHOWN IN THE PLANS REPRESENT THE POINT OF INTERSECTION BETWEEN THE REQUIRED FILL OR CUT SLOPE. THE CONSTRUCTION LIMITS DO NOT INCLUDE AREAS REQUIRED FOR SLOPE ROUNDING.
5. ANY DEBRIS WHICH MAY BE ENCOUNTERED DURING GRADING SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE PROJECT RIGHT OF WAY IN A SUITABLE DISPOSAL AREA AS APPROVED BY THE ENGINEER (INCIDENTAL).
6. OBTAIN COMPACTION OF THE GRADING AND AGGREGATE PORTIONS OF ROADWAY CONSTRUCTION IN ACCORDANCE WITH THE "PENETRATION INDEX METHOD" REQUIREMENTS.
7. OBTAIN COMPACTION OF THE WALKWAY PORTIONS OF CONSTRUCTION IN ACCORDANCE WITH THE "QUALITY COMPACTION METHOD" RQUIREMENTS. (INCIDENTAL)
8. NO EXTRA PAYMENT WILL BE MADE FOR MOVING, PLACING, OR TEMPORARY STOCKPILING OF EXCAVATION, EMBANKMENT AND/OR BORROW MATERIAL.
9. UNLESS OTHERWISE SPECIFICALLY ALLOWED OR REQUIRED BY THE CONTRACT, BITUMINOUS AND CONCRETE ITEMS DISTURBED BY CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND MAY BE RECYCLED OR DISPOSED OF OFF THE RIGHT OF WAY.
10. PROVIDE A UNIFORM TACK COAT AS DOCUMENTED IN THE MOST CURRENT SPEC. 2357 - BITUMINOUS TACK COAT REQUIREMENTS, WHICH SHALL BE INCIDENTAL.
11. TEMPORARY EROSION CONTROL - TEMPORARY EROSION CONTROL DEVICES AND THEIR SUGGESTED LOCATIONS HAVE BEEN SHOWN IN THE PLANS ALONG WITH PAY ITEMS FOR THEIR USE. THIS DOES NOT HOWEVER RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO CONDUCT HIS CONSTRUCTION IN A MANNER THAT WILL CONTROL EROSION. RESPONSIBILITY FOR CONTROLLING EROSION AND MAINTENANCE OF EROSION CONTROL AS SET IN MNDOT SPECIFICATIONS 1717, 1803, 2101, 2105, 2573, 2575, AND IS AMENDED BY THE SPECIAL PROVISIONS.
12. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.
13. RELOCATION OF EXISTING UTILITIES WILL BE REQUIRED AS A RESULT OF THIS PROJECT'S CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSBILITY TO IDENTIFY POTENTIAL CONFLICTS, VERIFY UTILITY CONFLICTS, AND COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES TO AVOID DELAYS. NO COMPENSATION WILL BE MADE FOR DELAYS ASSOCIATED WITH THE CONTRACTOR'S FAILURE TO COORDINATE WITH THE UTILITY COMPANIES. IT IS EXPECTED THIS COORDINATION WILL BEGIN AS SOON AS CONTRACTS ARE SIGNED, PRIOR TO CONSTRUCTION BEGINNING.

DATE: 4/20/2026 TIME: 9:47:13 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-125scn-001

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

SOILS AND CONSTRUCTION NOTES

SP 230-090-003 / SP 018-070-024

THE FOLLOWING STANDARD PLANS, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT			
STANDARD PLANS			
INDEX NO.	SUBJECT	APPROVED	REVISED
5-297.115 (1 of 2)	STAKING INFORMATION SHEET	08-06-2014	
5-297.115 (2 of 2)	STAKING INFORMATION SHEET	08-06-2014	
5-297.220 (2 of 2)	SAFETY EDGE BITUMINOUS PAVEMENT	02-21-2024	
5-297.221 (1 of 5)	PAVEMENT JOINTS CONTRACTION (DESIGN C)	08-12-2025	
5-297.221 (2 of 5)	PAVEMENT JOINTS EXPANSION (DESIGN E)	08-12-2025	
5-297.221 (3 of 5)	PAVEMENT JOINTS LONGITUDINAL (DESIGN L)	08-12-2025	
5-297.221 (4 of 5)	PAVEMENT JOINTS - HEADERS	08-12-2025	
5-297.250 (1 of 6)	PEDESTRIAN CURB RAMP DETAILS	11-04-2021	
5-297.250 (2 of 6)	PEDESTRIAN CURB RAMP DETAILS	11-04-2021	
5-297.250 (3 of 6)	PEDESTRIAN CURB RAMP DETAILS	11-04-2021	
5-297.250 (4 of 6)	PEDESTRIAN CURB RAMP DETAILS	11-04-2021	
5-297.250 (5 of 6)	PEDESTRIAN CURB RAMP DETAILS	11-04-2021	
5-297.250 (6 of 6)	PEDESTRIAN CURB RAMP DETAILS	11-04-2021	
5-297.254 (1 of 4)	DRIVEWAY AND SIDEWALK DETAILS	11-04-2021	
5-297.254 (2 of 4)	DRIVEWAY AND SIDEWALK DETAILS	11-04-2021	
5-297.254 (3 of 4)	DRIVEWAY AND SIDEWALK DETAILS	11-04-2021	12-23-2021
5-297.254 (4 of 4)	DRIVEWAY AND SIDEWALK DETAILS	11-04-2021	
5-297.302	PROTECTION AND RESTORATION OF VEGETATION	12-11-2015	
5-297.404 (1 of 3)	PERMANENT EROSION CONTROL - ALONG ROADWAYS, DITCHES, AND FLUMES	02-28-2017	
5-297.404 (2 of 3)	PERMANENT EROSION CONTROL - TURF ESTABLISHMENT DETAIL AT CULVERT ENDS	01-08-2020	
5-297.404 (3 of 3)	PERMANENT EROSION CONTROL - REPP (BLANKET) STAPLE PATTERN FOR SLOPES	01-08-2020	
5-297.405 (2 of 8)	TEMPORARY SEDIMENT CONTROL - FILTER BERMS, SEDIMENT CONTROL LOGS, AND BALE BARRIERS	01-08-2020	
5-297.405 (4 of 8)	TEMPORARY SEDIMENT CONTROL - STORM DRAIN INLET PROTECTION	02-28-2017	
5-297.405 (5 of 8)	TEMPORARY SEDIMENT CONTROL - CONSTRUCTION EXITS	02-28-2017	
5-297.405 (6 of 8)	TEMPORARY SEDIMENT CONTROL - SILT FENCE	02-28-2017	
5-297.405 (8 of 8)	TEMPORARY SEDIMENT CONTROL - CULVERT END CONTROLS	02-28-2017	

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT	
STANDARD PLATES	
PLATE NO.	DESCRIPTION
7038A	DETECTABLE WARNING SURFACE TRUNCATED DOMES
7100H	CONCRETE CURB AND GUTTER (DESIGN B AND DESIGN V)
7111J	INSTALLATION OF CATCH BASIN CASTINGS (CONCRETE CURB AND GUTTER)
7113A	CONCRETE APPROACH NOSE DETAIL
8000K	TEMPORARY CHANNELIZERS (3 SHEETS)

THE LISTED STANDARD PLANS AND/OR STANDARD PLATES ARE INCORPORATE BY REFERENCE INTO THE PLAN SET. THE CERTIFICATION ON THIS SHEET SIGNIFIES THE ENGINEER SELECTED THE STANDARD PLANS AND PLATES AS APPROPRIATE FOR USE ON THE PROJECT.

DRAWN BY: AS
DESIGNED BY: MKV
CHECKED BY: JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

STANDARD PLANS AND STANDARD PLATES

SP 230-090-003 / SP 018-070-024

Sheet No. 13 of 100 Sheets

DATE: 4/20/2026 TIME: 9:47:22 AM
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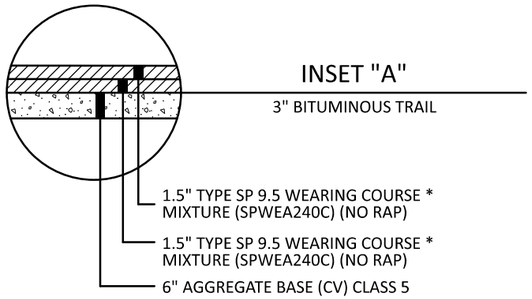


INSET "A"

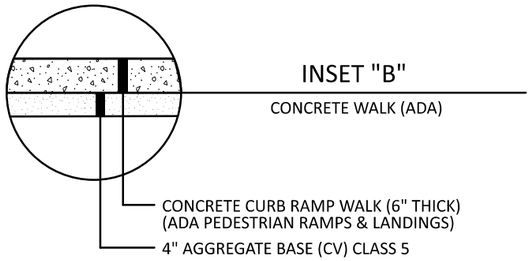
3" BITUMINOUS TRAIL

1.5" TYPE SP 9.5 WEARING COURSE * MIXTURE (SPWEA240C) (NO RAP)

1.5" TYPE SP 9.5 WEARING COURSE * MIXTURE (SPWEA240C) (NO RAP)

6" AGGREGATE BASE (CV) CLASS 5

* PAID FOR AS 3" BITUMINOUS WALK BY THE SQUARE FOOT

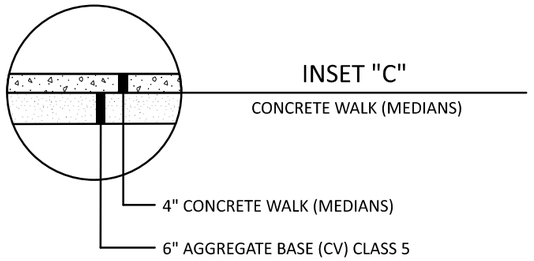


INSET "B"

CONCRETE WALK (ADA)

CONCRETE CURB RAMP WALK (6" THICK) (ADA PEDESTRIAN RAMPS & LANDINGS)

4" AGGREGATE BASE (CV) CLASS 5

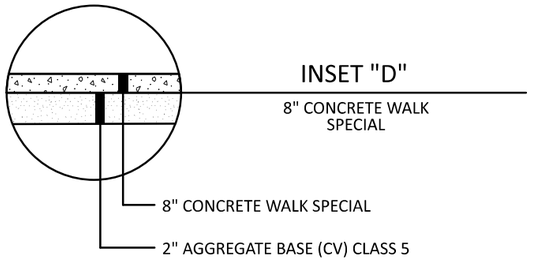


INSET "C"

CONCRETE WALK (MEDIANS)

4" CONCRETE WALK (MEDIANS)

6" AGGREGATE BASE (CV) CLASS 5

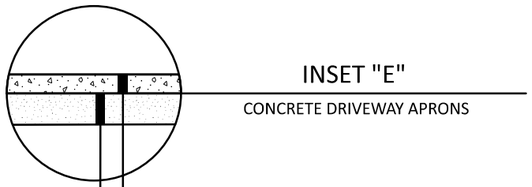


INSET "D"

8" CONCRETE WALK SPECIAL

8" CONCRETE WALK SPECIAL

2" AGGREGATE BASE (CV) CLASS 5

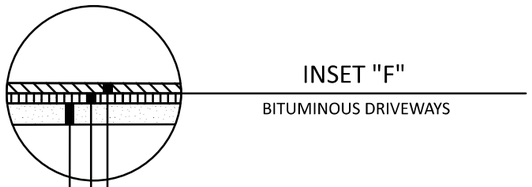


INSET "E"

CONCRETE DRIVEWAY APRONS

6" CONCRETE DRIVEWAY PAVEMENT

4" AGGREGATE BASE (CV) CLASS 5



INSET "F"

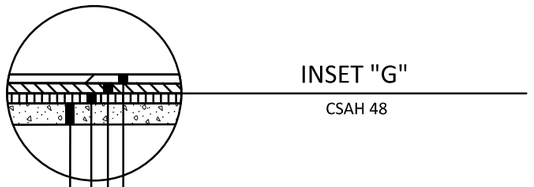
BITUMINOUS DRIVEWAYS

1.5" TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)* (SPWEA340B)

1.5" TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)* (SPWEA340B)

6" AGGREGATE BASE (CV) CLASS 5

*PAID FOR AS TYPE SP 9.5 WEARING COURSE MIX (3,B) 3.0" THICK BY THE SQUARE YARD



INSET "G"

CSAH 48

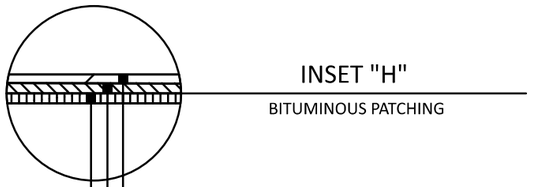
2" TYPE SP 9.5 WEARING COURSE MIXTURE (3,B) (SPWEA340B)

2" TYPE SP 9.5 WEARING COURSE MIXTURE (3,B) (SPWEA340B)

2" TYPE SP 9.5 WEARING COURSE MIXTURE (3,B) (SPWEA340B)

2" TYPE SP 12.5 NON-WEARING COURSE MIXTURE (3,B) (SPNWB330B)

6" AGGREGATE BASE (CV) CLASS 5



INSET "H"

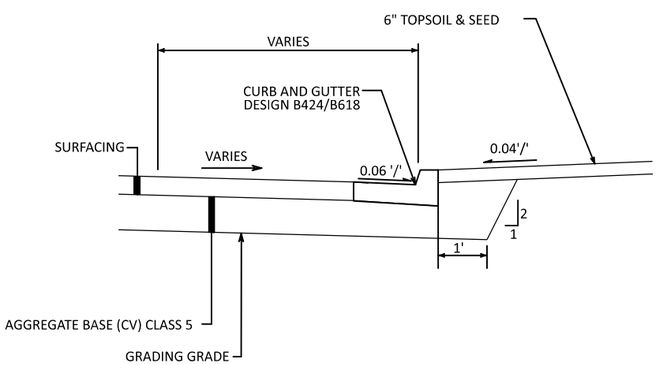
BITUMINOUS PATCHING

2" TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)* (SPWEA340B)

2" TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)* (SPWEA340B)

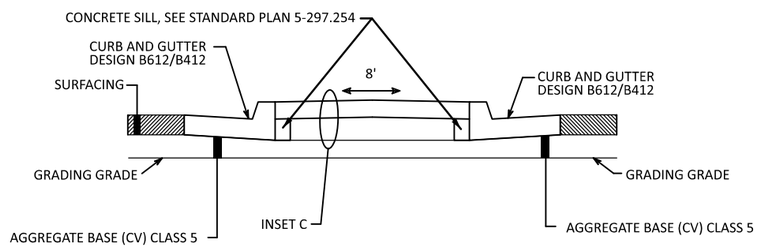
2" TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)* (SPWEA340B)

*PAID FOR AS TYPE SP 9.5 BITUMINOUS MIXTURE FOR PATCHING BY THE TON



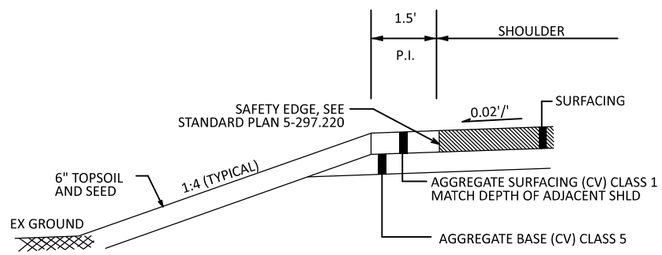
DETAIL A

CONCRETE CURB & GUTTER



DETAIL B

CONCRETE MEDIAN



DETAIL C

RURAL SHOULDER PI

DATE: 4/20/2026 TIME: 9:47:35 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-145typ-001

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

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SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

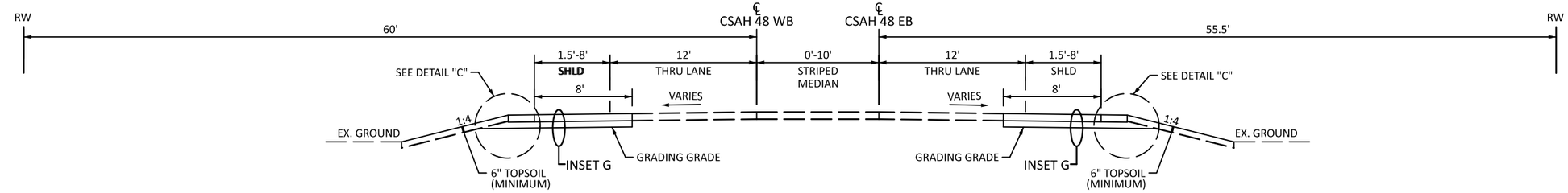
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

TYPICAL SECTIONS

SP 230-090-003 / SP 018-070-024

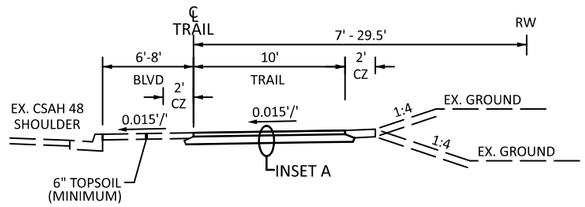
CSAH 48 EB

STA 300+40 TO STA 303+90.07



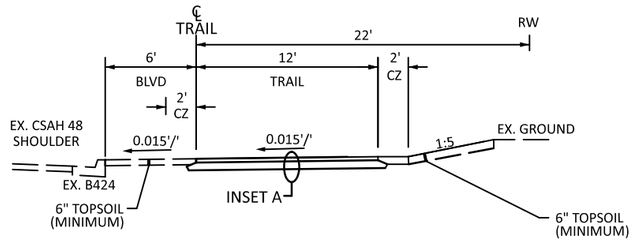
TRAIL - SEGMENT 1
TRAIL - SEGMENT 2

STA 100+80.44 TO STA 106+25
STA 108+60 TO STA 118+31.59
STA 231+18 TO STA 234+49.28



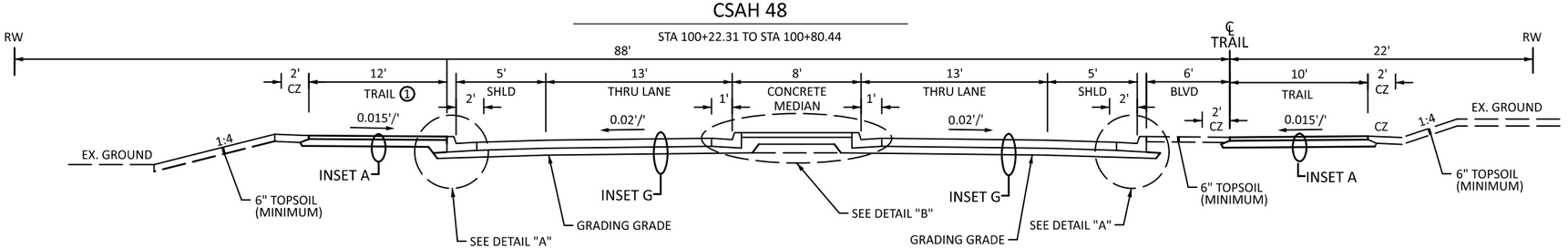
TRAIL - SEGMENT 1

STA 106+25 TO STA 108+60



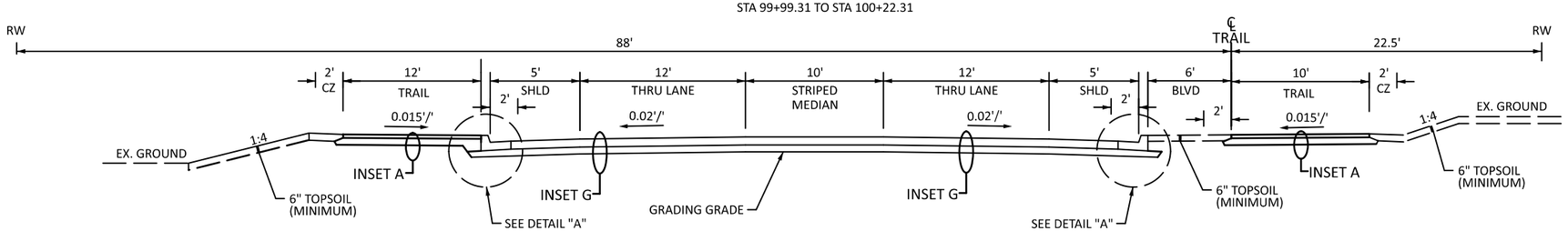
CSAH 48

STA 100+22.31 TO STA 100+80.44



CSAH 48

STA 99+99.31 TO STA 100+22.31



SPECIFIC NOTES

① ENDS STA. 100+42.31

DATE: 4/20/2026 TIME: 9:47:36 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-145typ-001

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DESIGNED BY:	MKV
CHECKED BY:	JK

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DATE: 4/20/2026 LIC. NO. 56164

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City of Baxter
CSAH 48 Trail
Baxter, Minnesota

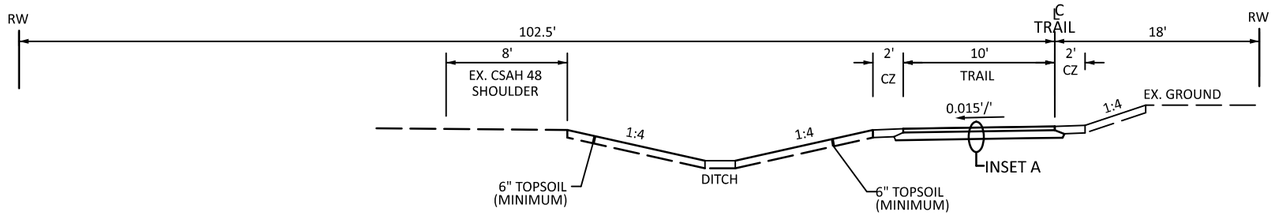
TYPICAL SECTIONS

SP 230-090-003 / SP 018-070-024

Sheet No. 16 of 100 Sheets

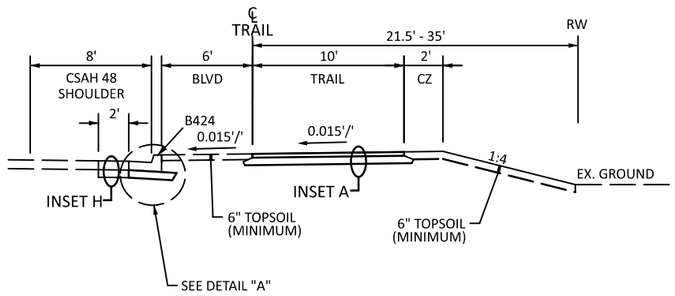
TRAIL - SEGMENT 2

STA 227+50 TO STA 231+18



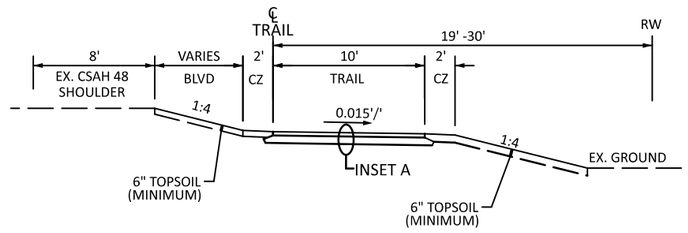
TRAIL - SEGMENT 2

STA 200+04.37 TO STA 219+07.18



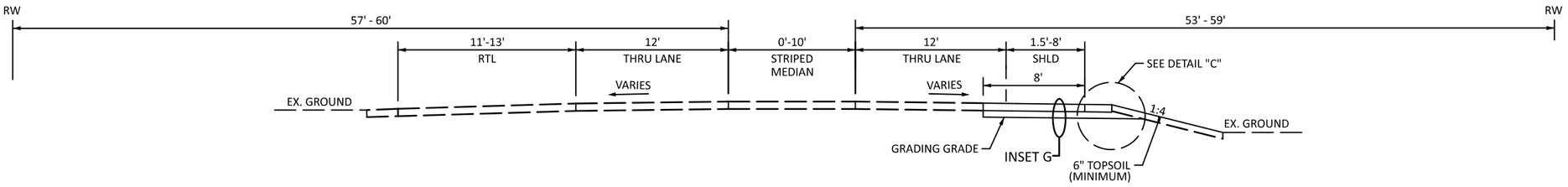
TRAIL - SEGMENT 2

STA 219+07.18 TO 227+50



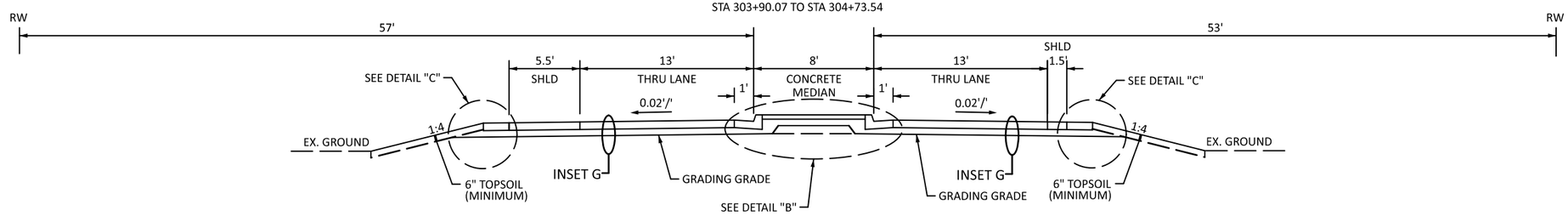
CSAH 48 EB

STA 305+31.73 TO STA 308+81.80



CSAH 48 EB

STA 303+90.07 TO STA 304+73.54



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FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-145typ-001

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

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SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

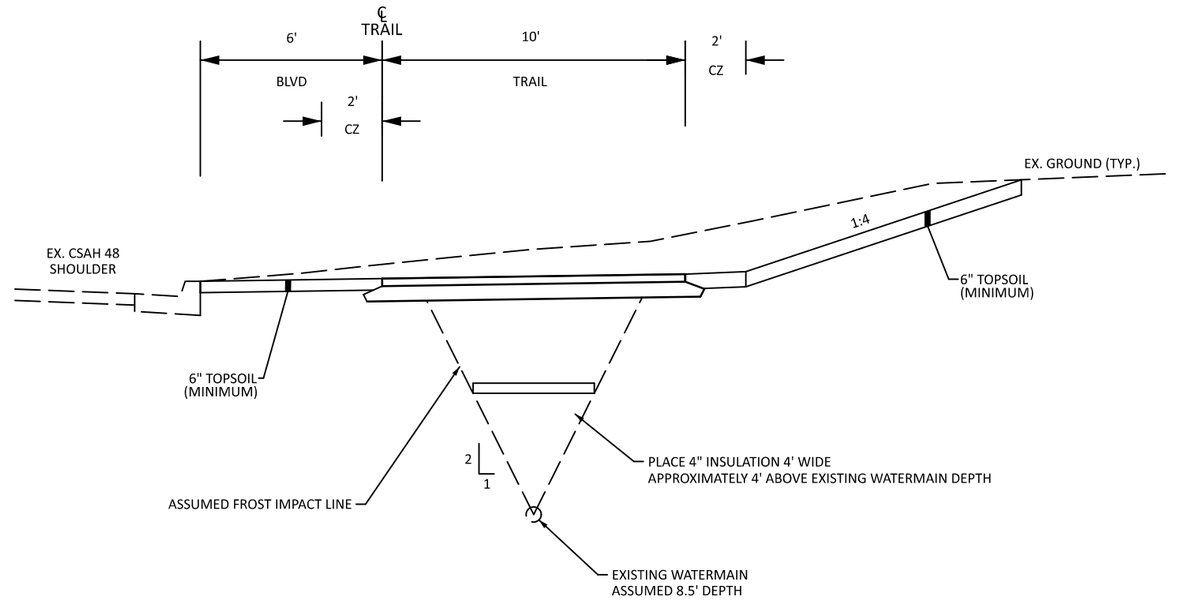
wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

TYPICAL SECTIONS

SP 230-090-003 / SP 018-070-024

Sheet No. 17 of 100 Sheets



4" INSULATION OVER WATERMAIN

NOT TO SCALE

DATE: 4/20/2026 TIME: 9:47:44 AM
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DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

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wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

DESIGN DETAILS

SP 230-090-003 / SP 018-070-024

NOTES & GUIDELINES

GENERAL INFORMATION:

1. ALL DISTANCES ARE APPROXIMATE.

SIGNING:

1. ALL TEMPORARY SIGNS ARE REQUIRED TO BE CRASHWORTHY PER THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE 2016 (MASH-2016). TEMPORARY SIGN STRUCTURES THAT ARE CRASHWORTHY UNDER THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM REPORT 350 (NCHRP-350) MAY BE USED PROVIDED THE DEVICES WERE ACQUIRED BY THE CONTRACTOR PRIOR TO DECEMBER 31ST, 2019. THE MINNESOTA TYPE "C" AND "D" BRACED LEG U-CHANNEL (KNEE BRACE) SIGN SUPPORT IS NOT ALLOWED.
2. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE FINAL SIGNS TO ASSURE THAT THE FINAL SIGNS ARE PLACED AS NEEDED, OR PROVIDE TEMPORARY SIGNING UNTIL THE FINAL SIGNING IS PLACED.
3. WHEN MULTIPLE GROUND MOUNTED SIGN STRUCTURES ARE PLACED ADJACENT TO EACH OTHER THERE SHOULD BE NO MORE THAN 2 POSTS WITHIN 84" OF EACH OTHER. WHEN THIS SPACING CAN NOT BE MAINTAINED, THEN SIGN STRUCTURES SHALL BE OFFSET, AND STAGGERED WITH A MINIMUM OF 4' BETWEEN SIGN STRUCTURES BOTH LATERALLY AND LONGITUDINALLY.
4. WHEN A SIGN OR BARRICADE IS ORIENTED SUCH THAT VISIBILITY TO ROAD USERS INCLUDING BIKES AND PEDESTRIANS IS REDUCED ENOUGH TO CAUSE A HAZARD, DELINEATE THE SIGN/BARRICADE WITH APPROPRIATE DEVICES.
5. TEMPORARY SIGNS SHALL BE PLACED SUCH THAT OBSTACLES DO NOT BLOCK THEM FROM BEING VIEWED BY APPROACHING ROAD USERS. OBSTACLES MAY INCLUDE, BUT ARE NOT LIMITED TO, LIGHT POLES, TREES, SIGNS, AND BUILDINGS.
6. TEMPORARY SIGNS SHALL BE PLACED AND ORIENTED APPROXIMATELY AS SHOWN IN THE PLAN, AT RIGHT ANGLES TO DIRECTION OF AND FACING THE TRAFFIC THEY ARE INTENDED TO SERVE, UNLESS OTHERWISE SPECIFIED.
7. LONGITUDINAL DROPOFFS SHALL BE SIGNED AS SHOWN IN THE "MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD MANUAL" PAGES (6K-aj) THRU (6K-al) UNLESS OTHERWISE SPECIFIED IN THESE PLANS.
8. AFTER REMOVAL OF SIGN AND/OR SIGN BASE, BACK FILL, COMPACT, AND LEVEL SOIL TO MATCH SURROUNDING SOIL.
9. PLACE PERMANENT SIGNING AS SOON AS PROPOSED ROADWAY CONSTRUCTION IS COMPLETED AND OPEN TO TRAFFIC.

PAVEMENT MARKING:

1. MASK OR REMOVE ANY CONFLICTING PAVEMENT MARKINGS AS SHOWN IN THE PLAN OR APPROVED BY THE ENGINEER.
2. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE. ALL PAVEMENT MARKINGS IN TAPERS AND TRANSITIONS SHALL BE 6" IN WIDTH.
3. SEE 2582 IN THE SPECIAL PROVISIONS FOR PAVEMENT MARKING SPOTTING RESPONSIBILITIES.

BARRIER & DELINEATION:

1. PLACE AND MAINTAIN PORTABLE BARRIER DELINEATORS ANY TIME TRAFFIC IS WITHIN 10' OF BARRIER. DELINEATORS WILL EACH HAVE A MINIMUM OF 24 SQ IN. OF RETROREFLECTIVE SURFACE ON BOTH SIDES PLACED AT 25' SPACING ON TOP OF THE BARRIER. SIDE MOUNTED PORTABLE BARRIER DELINEATORS WILL HAVE A MINIMUM OF 12 SQ. IN. OF RETROREFLECTIVE SURFACE AREA AND BE PLACED AT 12.5' SPACING. IF A SMALLER APPROVED BARRIER DELINEATOR IS USED IT SHALL BE A MINIMUM OF 6 SQ IN. OF RETROREFLECTIVE SURFACE AREA AND BE PLACED ON BOTH SIDES AT 6.25' SPACING. TEMPORARY BARRIER DELINEATOR COLOR SHALL MATCH APPLICABLE PAVEMENT MARKING.

CONSTRUCTION INFORMATION SIGNING:

1. THE CONTRACTOR SHALL USE CONSTRUCTION INFORMATION SIGNING AS SHOWN IN THE PLAN WHICH ARE TO BE USED AS FOLLOWS:

   IF CONSTRUCTION INFORMATION SIGNING IS NO LONGER VISIBLE TO THE MOTORING PUBLIC ONCE WORK BEGINS, MOVE SAID SIGNING TO A SITE IN ADVANCE OF THE WORK ZONE OR CLOSURE AS SHOWN IN THE PLAN OR APPROVED BY THE ENGINEER.

THE FOLLOWING STANDARD PLANS, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT

STANDARD PLANS

		APPROVED	REVISED
5-297.718	SQUARE-TUBE SIGN MOUNTING DETAIL	8-9-2023	
5-297.719	SQUARE-TUBE SIDE-BY-SIDE SIGN MOUNTING DETAILS	8-9-2023	
5-297.720	SQUARE-TUBE NO PASSING ZONE SIGN MOUNTING DETAIL	8-9-2023	
5-297.721	THREE-WALL BASE FOR SQUARE-TUBE RISE POST	11-29-2022	
5-297.722	FIN BASE FOR SQUARE-TUBE RISE POST IN SOIL	8-9-2023	
5-297.724	SLIP BASE ASSEMBLY FOR SQUARE-TUBE RISE POST	8-9-2023	
5-297.727	SQUARE-TUBE MEDIAN BARRIER BASE	6-4-2024	
5-297.801	INTERIM PAVEMENT MARKINGS AND SIGNING	10-10-2019	
5-297.811	ALTERNATE PEDESTRIAN ROUTE (APR)	3-18-2021	
5-297.813	TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR)	3-18-2021	

THE LISTED STANDARD PLANS AND/OR PLATES ARE INCORPORATED BY REFERENCE INTO THE PLAN SET. THE CERTIFICATION ON THIS SHEET SIGNIFIES THE ENGINEER SELECTED THE STANDARD PLANS AND/OR PLATES AS APPROPRIATE FOR USE ON THIS PROJECT.

UPDATED 11/02/2023

PAVEMENT MARKING SYMBOLS AND MATERIALS LEGEND

SOLID LINE PAVEMENT MARKING

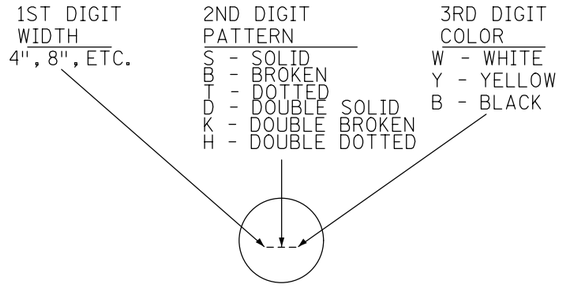
BROKEN LINE-50' CYCLE (10' LINE, 40' GAP)

DOTTED LINE-15' CYCLE (3' LINE, 12' GAP), UNLESS SHOWN OTHER WISE IN THE PLAN

STRIPING KEY

TRIANGLE-PAINT (WET REFLECTIVE)

BOX-PREF TAPE



EXAMPLE: 6SW = 6" SOLID LINE WHITE PAINT (WET REFLECTIVE)

INDEX

TRAFFIC CONTROL SHEET NO.	DESCRIPTIONS
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TRAFFIC CONTROL DEVICES & SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	AREA CLOSED TO TRAFFIC / WORK AREA
⊢	TRAFFIC CONTROL SIGN
⌊⌋	TYPE III BARRICADE =
●	DRUM-LIKE CHANNELIZER (TYPE B) =
Ⓕ	TYPE A FLASHING WARNING LIGHT

DATE: 4/20/2026 TIME: 9:47:58 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-425tcp-details.dgn

DRAWN BY:	LS
DESIGNED BY:	MS
CHECKED BY:	MS

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Michael Shomion
PRINTED NAME: MICHAEL SHOMOIN, PE
DATE: 4/20/2026 LIC. NO. 50488

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

TEMPORARY TRAFFIC CONTROL TITLE SHEET
CONSTRUCTION STAGING & TRAFFIC CONTROL

SP 230-090-003 / SP 018-070-024
Sheet No. 18 of 100 Sheets

TRAFFIC CONTROL TABULATION — TC

ITEM DESCRIPTION	UNIT	SP 230-090-003 PROJECT TOTAL	PHASE 1	PHASE 2	PHASE 3
PAVEMENT MARKING REMOVAL	LIN FT	14005	1100	7040	5865
PORTABLE CHANGEABLE MESSAGE SIGN (1)	UNIT DAY	42			42
6" REMOVABLE PREFORM PAVEMENT MARKING TAPE (WR)	LIN FT	7717	4141	3576	
4" REMOVABLE PREFORM PAVEMENT MARKING TAPE (WR)	LIN FT	4812	2789	2023	
REMOVABLE PREFORMED PLASTIC MASK (BLACK)	LIN FT	4725	4725		

NOTES
(1) PLACE PCMS AS DIRECTED BY THE ENGINEER

TRAFFIC CONTROL ITEM COLOR — TC-A

ITEM DESCRIPTION	UNIT	SP 230-090-003 SUBTOTALS		PHASE 1		PHASE 2		PHASE 3	
		WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW
6" REMOVABLE PREFORM PAVEMENT MARKING TAPE (WR)	LIN FT	6050	1667	3502	639	2548	1028		
4" REMOVABLE PREFORM PAVEMENT MARKING TAPE (WR)	LIN FT		4812		2789		2023		

NOTES:
- FOR INFORMATION ONLY

"M" SERIES

SIGN	SIGN NO.	COLOR	SIZE (IN. X IN.) (W×H)	ASSEMBLY (IN. X IN.) (W×H)	NUMBER OF POST
DETOUR	M4-8	BLACK ON ORANGE	24X12	24X63	1
WEST EAST	M3-2 M3-4	WHITE ON BLUE	24X12		
COUNTY 48	M1-6M	WHITE AND YELLOW ON BLUE	24X24		
	M5-1 (R/L) M6-1 M6-3	WHITE ON BLUE	21X15		

"W" SERIES

SIGN	SIGN NO.	COLOR	SIZE (IN. X IN.) (W×H)	ASSEMBLY (IN. X IN.) (W×H)	NUMBER OF POST
WEST EAST	M3-2 M3-4	WHITE ON BLUE	24X12	48X84	1
COUNTY 48	M1-6M	WHITE AND YELLOW ON BLUE	24X24		
ROAD CLOSED AHEAD	W20-3	BLACK ON ORANGE	48X48		
DETOUR AHEAD	W20-2				

"W" SERIES

SIGN	SIGN NO.	COLOR	SIZE (IN. X IN.) (W×H)	ASSEMBLY (IN. X IN.) (W×H)	NUMBER OF POST
RIGHT SHOULDER CLOSED	W21-5a	BLACK ON ORANGE	48X48	48X48	1
LANES NARROW	W20-X17	BLACK ON YELLOW	36X36	36X36	1
ROAD WORK AHEAD	W20-1	BLACK ON ORANGE	48X48	48X48	1
DETOUR AHEAD	W20-2	BLACK ON ORANGE	48X48	48X48	1
XX M.P.H.	W1-4(R/L)	BLACK ON YELLOW	48X48	48X78	1
	W13-1P	BLACK ON YELLOW	30X30		
ROAD CLOSED AHEAD	W20-3	BLACK ON ORANGE	48X48	48X72	1
XXX FEET XXX MILE	W16-2P W16-3P	BLACK ON ORANGE	36X24		

"R" SERIES

SIGN	SIGN NO.	COLOR	SIZE (IN. X IN.) (W×H)	ASSEMBLY (IN. X IN.) (W×H)	NUMBER OF POST
	R4-7	BLACK ON WHITE	12X18	12X18	CHANNELIZER

"G" & "D" SERIES

SIGN	SIGN NO.	COLOR	SIZE (IN. X IN.) (W×H)	ASSEMBLY (IN. X IN.) (W×H)	NUMBER OF POST
END ROAD WORK	G20-2	BLACK ON ORANGE	48X24	48X24	1

BARRICADE MOUNTED SIGNS

SIGN	SIGN NO.	COLOR	SIZE (IN. X IN.) (W×H)
ROAD LANE CLOSED	R11-2M	BLACK ON WHITE	48X30
ONE WAY	R6-1 R/L	BLACK ON WHITE	54X18
ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY	R11-3a	BLACK ON WHITE	60X30

SPECIFIC NOTES:

Ⓐ MAY USE 2" SQUARE TUBE POST WITH FIN BASE.

Ⓑ SEE SPECIAL SIGN DETAILS SHEET FOR SIGN DETAILS.

Ⓒ MOUNT POST ⅓ OF THE WAY IN FROM THE LEFT SIDE OF SIGN.

GENERAL NOTES;

1. SIGN STRUCTURE TABULATIONS INDICATE SQUARE TUBE GROUND MOUNTED SIGN STRUCTURES THAT ARE MASH-16 COMPLIANT.
2. USE PRODUCTS FROM THE BASES FOR SQUARE TUBE SIGN STRUCTURES APPROVED/QUALIFIED PRODUCTS LIST FOR THE INDICATED SQUARE TUBE RISER POST SIZE. PLACE PER THE MANUFACTURER'S SPECIFICATIONS.
3. ALUMINUM STRINGERS SHALL BE USED FOR SIGNS 36 INCHES AND WIDER. SEE MANUFACTURER'S SPECIFICATIONS FOR SQUARE TUBE MOUNTING DETAILS. STRINGERS ON SINGLE POST ASSEMBLIES ARE REQUIRED TO BE AT LEAST 9 INCHES IN FROM THE EDGE OF THE SIGN.
4. UNLESS OTHERWISE INDICATED, USE 2-1/2 INCH RISER POSTS FOR GROUND MOUNTED SIGN STRUCTURES.

GENERAL NOTES;

1. GROUND MOUNTED SQUARE TUBE SIGN STRUCTURES PLACED WITHIN 50' OF THE RADIUS END OF AN INTERSECTION SHALL BE PLACED ON ONE 2" OR 2-1/2" POST.
2. FOR 2" SQUARE TUBE RISER POST IN SOIL, USE FIN BASE PLACED PER MANUFACTURER'S SPECIFICATIONS. USE A 2" X 2" PRE-PUNCHED, GALVANIZED STEEL, SQUARE TUBE RISER POST. PLACE 3/8" STAINLESS STEEL BOLT THROUGH THE 5TH HOLE DOWN FROM THE TOP OF THE BASE. RISER POST SHALL REST ON THE BOLT.
3. FOR 2-1/2" SQUARE TUBE RISER POST IN SOIL, USE SLIP BASE PLACED PER MANUFACTURER'S SPECIFICATIONS USING A 10 GAUGE , 2-1/2" X 2-1/2" PRE-PUNCHED, GALVANIZED STEEL, SQUARE TUBE RISER POST WITH A 10 GAUGE 2-3/16" X 2-3/16" PRE-PUNCHED, GALVANIZED STEEL, SQUARE TUBE INTERNAL INSERT.

SPECIFIC NOTES;

① IF ANY PART OF A SIGN OR SIGN ASSEMBLY EXTENDS MORE THAN 4" INTO THE PEDESTRIAN FACILITY, THE MINIMUM HEIGHT TO BOTTOM OF THE SIGN OR SIGN ASSEMBLY SHALL BE 7'.

② 6' - 12' FROM EDGE OF ROADWAY, MUST BE A MINIMUM OF 6' FROM EDGE OF PAVED SHOULDER (WHEN PRESENT).

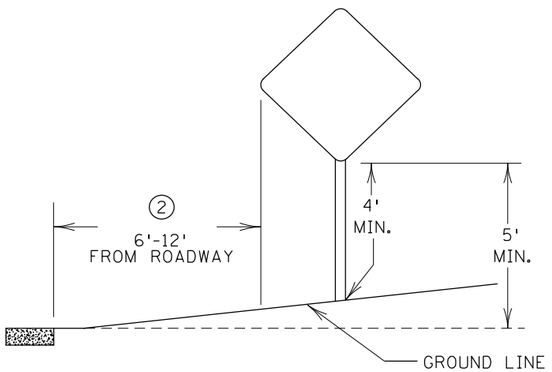
③ IF GROUND MOUNTED TEMPORARY SIGN OR SIGN ASSEMBLY IS PLACED ON 2-1/2" SQUARE TUBE RISER POST(S), THE MINIMUM CLEARANCE FROM THE GROUND LINE TO THE BOTTOM OF THE LOWEST SIGN ON THE ASSEMBLY SHALL BE 7', OR AS SHOWN IN DETAIL, WHICHEVER IS GREATER.

④ 5' MINIMUM IN RURAL. 7' MINIMUM IN BUSINESS, COMMERCIAL, OR RESIDENTIAL AREAS.

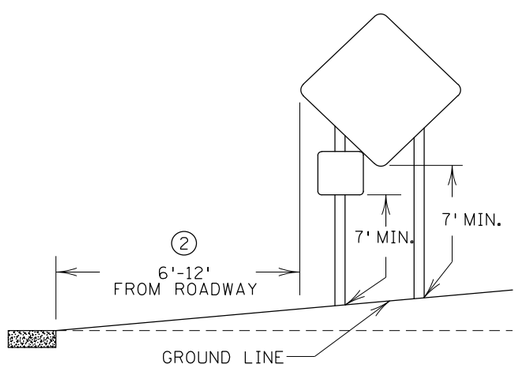
⑤ WHEN MULTIPLE GROUND MOUNTED SIGN STRUCTURES ARE PLACED ADJACENT TO EACH OTHER THERE SHOULD BE NO MORE THAN 2 POSTS WITHIN 84" OF EACH OTHER. WHEN THIS SPACING CAN NOT BE MAINTAINED, THEN SIGN STRUCTURES SHALL BE OFFSET, AND STAGGERED WITH A MINIMUM OF 4' BETWEEN SIGN STRUCTURES BOTH LATERALLY AND LONGITUDINALLY. EXAMPLE SHOWS DETOUR SIGNAGE, BUT THIS REQUIREMENT APPLIES TO ALL SIGNAGE.

⑥ INPLACE AND/OR OTHER CONSTRUCTION SIGNING.

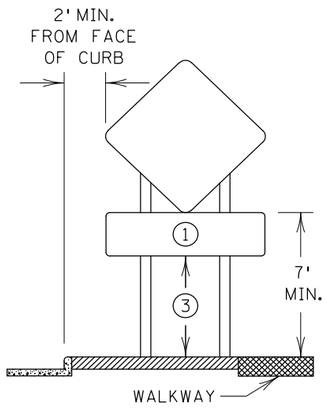
NOT TO SCALE



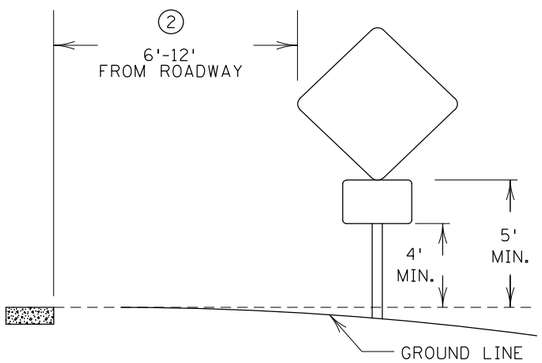
TYPICAL RURAL DESIGN
AND 2" RISER POST



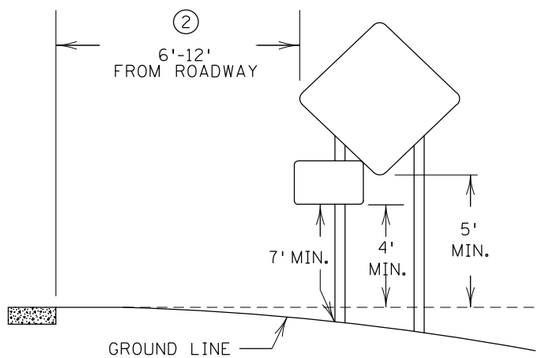
TYPICAL RURAL DESIGN WITH SUPPLEMENTAL
PLAQUE AND 2-1/2" RISER POST



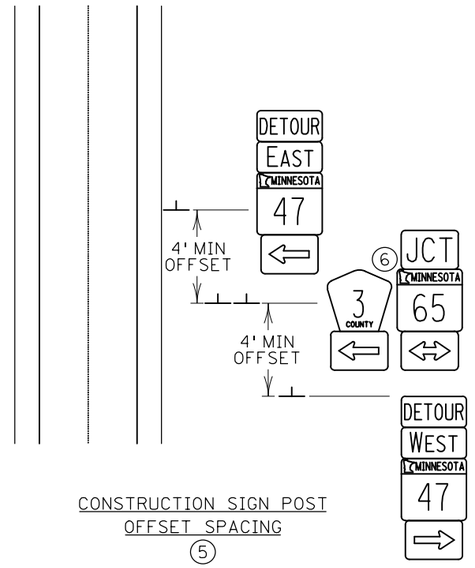
BUSINESS,COMMERCIAL,
OR RESIDENTIAL AREA



TYPICAL RURAL DESIGN WITH SUPPLEMENTAL
PLAQUE AND 2" RISER POST



TYPICAL RURAL DESIGN
2-1/2" RISER POST



CONSTRUCTION SIGN POST
OFFSET SPACING
⑤

TYPICAL G20-X2 DESIGN

PUBLISHED BY OTE 03/15/2021

TEMPORARY SQUARE TUBE GROUND MOUNTED SIGN PLACEMENT

DRAWN BY:	LS
DESIGNED BY:	MS
CHECKED BY:	MS

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Michael Shomion
PRINTED NAME: MICHAEL SHOMOIN, PE
DATE: 4/20/2026 LIC. NO. 50488

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

TEMPORARY SQUARE TUBE GROUND MOUNTED SIGN PLACEMENT
CONSTRUCTION STAGING & TRAFFIC CONTROL

SP 230-090-003 / SP 018-070-024

Sheet No. 21 of 100 Sheets

DATE: 4/20/2026 TIME: 9:47:59 AM
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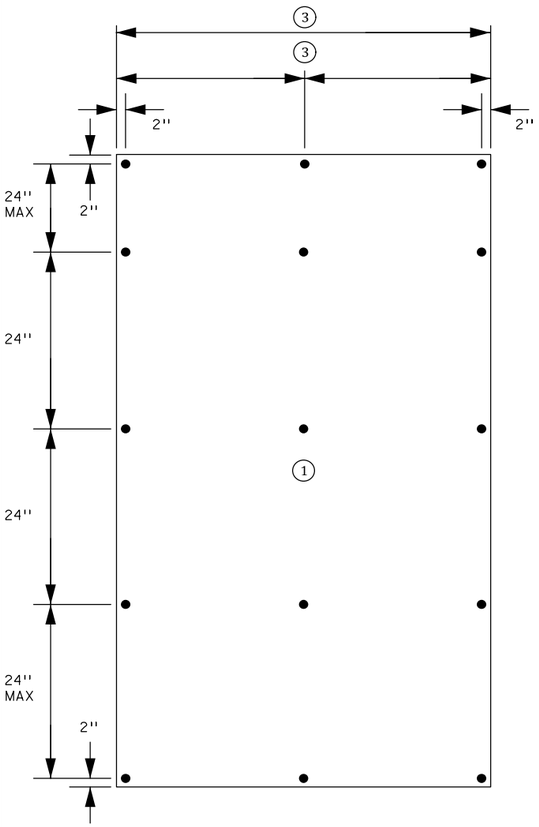
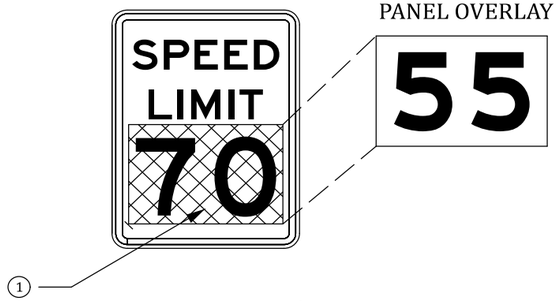
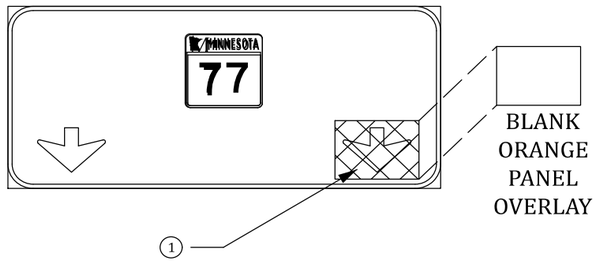
FASTENER SPACING DETAIL
HORIZONTAL PLACEMENT



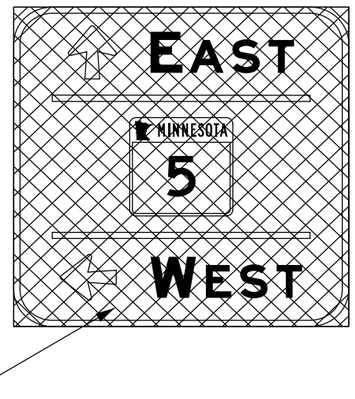
R2-1

BLACK ON WHITE
PANEL OVERLAY

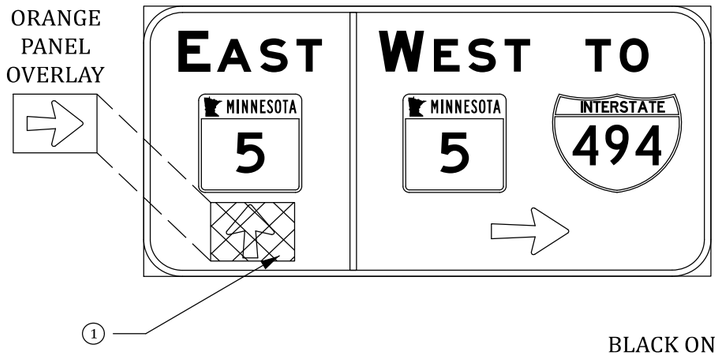




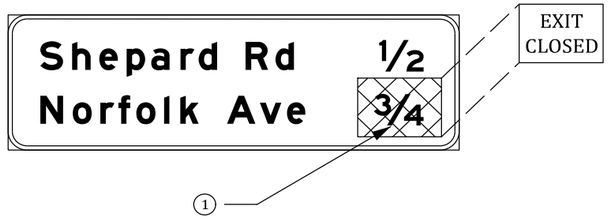
BLANK
NON-REFLECTIVE
GREEN
COVER

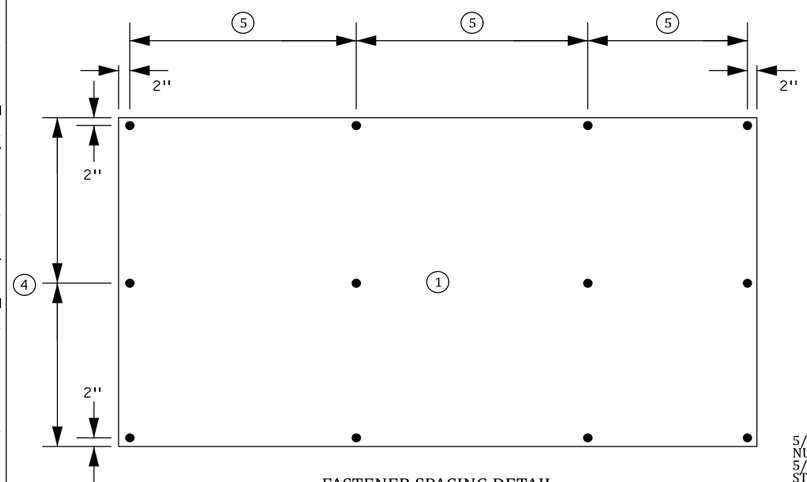


BLACK ON
ORANGE
PANEL
OVERLAY



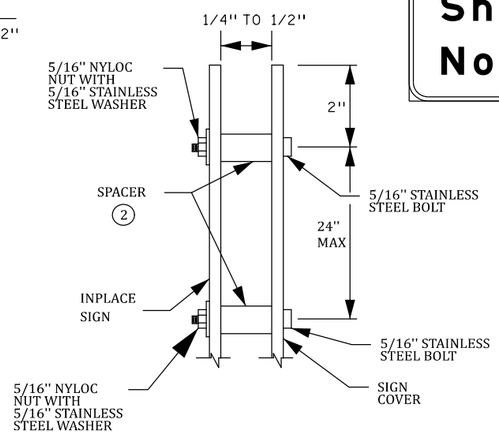
BLACK ON
ORANGE
PANEL
OVERLAY





FASTENER SPACING DETAIL
VERTICAL PLACEMENT

SPACER DETAIL



GENERAL NOTES:

1. SIGN COVERS ARE USED TO COVER THE ENTIRE PANEL OF A INPLACE SIGN, THE COVER SHALL BE BLANK, GREEN IN COLOR, AND MADE OF A RIGID NON-REFLECTIVE MATERIAL (SHEET ALUMINUM, PLYWOOD, CORRUGATED PLASTIC). OTHER MATERIALS MAY BE USED AS APPROVED BY THE ENGINEER.
2. SIGN PANEL OVERLAYS ARE USED TO MODIFY THE MESSAGE OF AN INPLACE SIGN PANEL. THE PANEL OVERLAY SHALL BE MADE OF SHEET ALUMINUM WITH THE APPROPRIATE SHEETING MATERIAL AS SPECIFIED ON THE MNDOT SHEETING FOR RIGID TEMPORARY WORK ZONE SIGNS APL. THE MESSAGE SHALL FOLLOW THE REQUIREMENTS OF THE "MNDOT STANDARD SIGNS AND MARKINGS MANUAL" OR THE "FHWA STANDARD HIGHWAY SIGNS MANUAL" (AND SUPPLEMENTS). THE SIGN PANEL OVERLAY SHALL BE RECTANGULAR IN SHAPE AND FULLY COVER THE MESSAGE ELEMENT(S) BEING MODIFIED.

   SIGN PANEL OVERLAY WITH A MESSAGE SHALL BE BLACK ON FLUORESCENT ORANGE ON ALL SIGNS EXCEPT FOR REGULATORY SIGNS WHICH SHALL BE THE PROPER COLOR ON A WHITE BACKGROUND.

   BLANK SIGN PANEL OVERLAYS SHALL BE FLUORESCENT ORANGE ON ALL SIGNS.

   DO NOT COVER OR MODIFY THE "STOP" (R1-1), "YIELD" (R1-2), OR THE (W14-3) NO PASSING ZONE SIGNS, THESE SIGNS SHALL BE REMOVED IF THEY NO LONGER APPLY OR CONFLICT WITH WORK ZONE SIGNING.
3. MINIMIZE DAMAGE TO THE INPLACE SIGN PANEL. DO NOT APPLY TAPE TO THE INPLACE SIGN SHEETING.
4. SPACERS (SUCH AS PLASTIC OR RUBBER) SHALL BE A MATERIAL THAT WILL NOT HARM THE INPLACE SIGN SHEETING FACE.
5. ATTACH SIGN COVER PANEL OR PANEL OVERLAY USING HARDWARE SHOWN IN THE SPACER DETAIL.
6. IF SHEET METAL SCREWS ARE USED TO PLACE CORRUGATED PLASTIC AS A SIGN COVER PANEL, PLACE FENDER WASHERS BETWEEN THE SCREW HEADS AND THE CORRUGATED PLASTIC.
7. REMOVE ALL COVERING MATERIAL, MOUNTING HARDWARE, AND FASTENERS WHEN SIGN COVER PANEL OR PANEL OVERLAY IS REMOVED.
8. NO HANDLE OR OTHER LIFTING DEVICE SHALL BE LEFT ATTACHED TO ANY SIGN COVER PANEL AFTER PLACEMENT.

SPECIFIC NOTES:

① THE SIGN COVER OR PANEL OVERLY SHALL FULLY COVER THE MESSAGE BEING COVERED OR MODIFIED.

② PLACE SIGN COVER AND PANEL OVERLAYS WITH SPACERS THAT PROVIDE A SPACING OF 1/4 IN TO 1/2 IN BETWEEN THE COVER MATERIAL AND THE INPLACE SIGN. THE SPACERS SHALL HAVE AN OUTSIDE DIAMETER BETWEEN 3/8 IN TO 7/8 IN. EACH FASTENER REQUIRES A SPACER.

③ IF THE SIGN COVER OR PANEL OVERLAY IS GREATER THAN 48 IN WIDE, THE FASTENER SPACING SHALL BE NO GREATER THAN 24 IN. IF THE SIGN COVER OR PANEL OVERLAY IS LESS THAN 24 IN WIDE, DO NOT PLACE A CENTER FASTENER (UNLESS REQUIRED BY SPECIFIC NOTE ④).

④ VERTICAL SPACING FOR FASTENERS IS 50% OF THE SIGN COVER OR PANEL OVERLAY. IF THE SIGN COVER OR PANEL OVERLAY IS LESS THAN 24 IN HIGH, DO NOT PLACE A CENTER FASTENER (UNLESS REQUIRED PER SPECIFIC NOTE ⑤).

⑤ HORIZONTAL SPACING FOR FASTENERS SHALL NOT BE LESS THAN 15 IN OR MORE THAN 24 IN.

ASSEMBLY NOTES:

1. DRILL 11/32 IN HOLES ON THE SIGN COVER OR PANEL OVERLAY IN ACCORDANCE WITHHELD FASTENER SPACING DETAILS.
2. ATTACH PLASTIC SPACERS TO SIGN COVER OR PANEL OVERLAY WITH DOUBLE FACED TAPE. CENTERED BEHIND EACH DRILLED HOLE.
3. POSITION THE COVER OR OVERLAY MATERIAL OVER THE SIGN OR MESSAGE TO BE MODIFIED.
4. DRILL ALL THE OUTSIDE HOLES THROUGH THE INPLACE SIGN PANEL AND ATTACH THE COVER OR OVERLAY MATERIAL WITH APPROPRIATE FASTENERS.
5. DRILL ALL THE INNER HOLES THROUGH THE INPLACE SIGN PANEL AND ATTACH WITH APPROPRIATE FASTENERS.

DATE: 4/20/2026 TIME: 9:48:00 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-425tcp-details.dgn

PUBLISHED BY OTE 08/17/2023

TEMPORARY SIGN COVERING AND MODIFICATION DETAIL

DRAWN BY:	LS
DESIGNED BY:	MS
CHECKED BY:	MS

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Michael Shomion
PRINTED NAME: MICHAEL SHOMOIN, PE
DATE: 4/20/2026 LIC. NO. 50488

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

TEMPORARY SIGN COVERING AND MODIFICATION DETAIL
CONSTRUCTION STAGING & TRAFFIC CONTROL

SP 230-090-003 / SP 018-070-024
Sheet No. 22 of 100 Sheets

STAGE 1

CONSTRUCT THE TRAIL ALONG THE SOUTH AND WEST SIDE OF CSAH 48 USING SHORT TERM FLAGGING AND LANE SHIFTS AS NEEDED. CONSTRUCT THE WEST CURB LINE
OF CSAH 48 AT FOLEY RD. CONSTRUCT THE SOUTH SIDE SHOULDER RECONSTRUCTION AT PARKWOOD DR USING A SHIFT TO THE NORTH.

STAGE 2

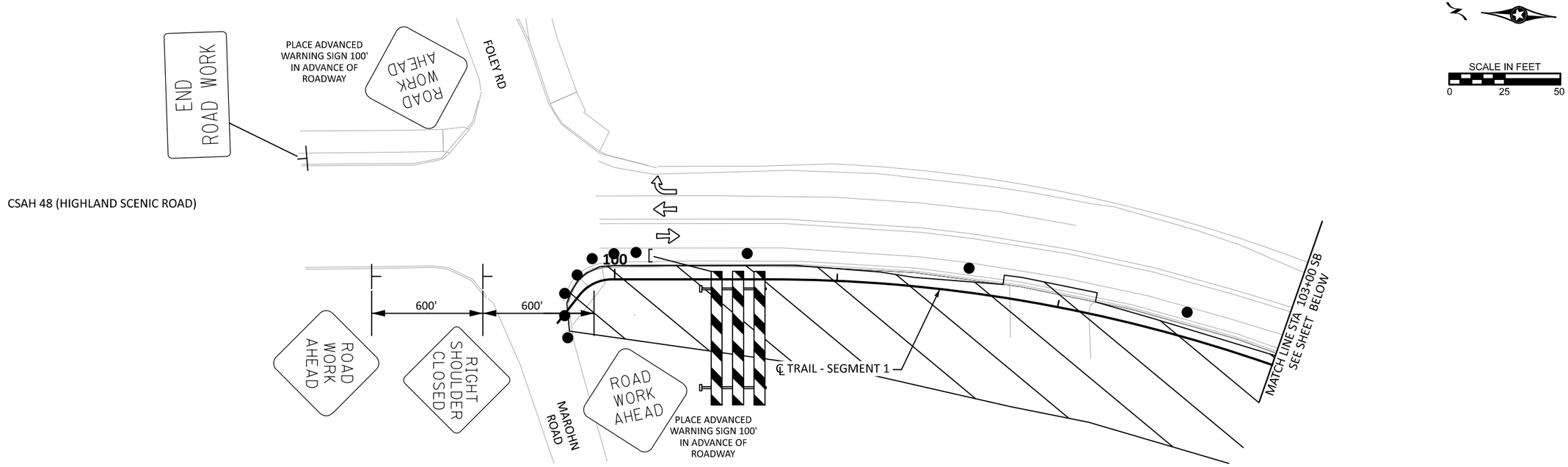
CONSTRUCT THE EAST CURB LINE OF CSAH 48 AT FOLEY RD USING A CLOSURE OF THE RIGHT TURN LANE ALLOWING RIGHT TURNING TRAFFIC TO TURN FROM THE THRU
LANE. CONSTRUCT THE NORTH SIDE SHOULDER RECONSTRUCTION AT PARKWOOD DR USING A SHIFT TO THE SOUTH.

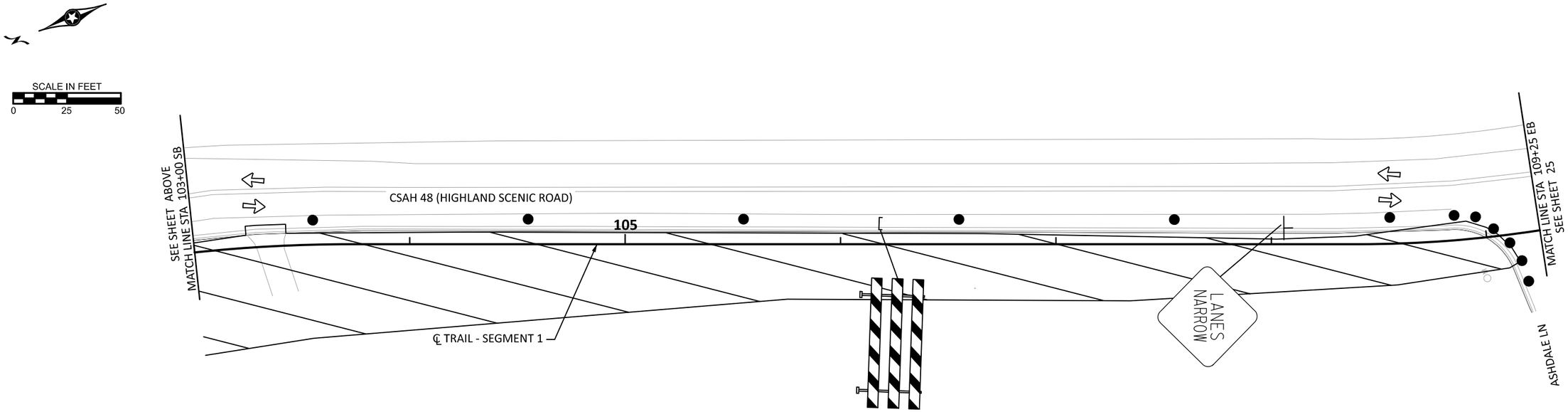
STAGE 3

CONSTRUCT THE MEDIAN AND ROADWAY RECONSTRUCTION ON CSAH 48 AT FOLEY RD AND PARKWOOD DR WITH A FULL CLOSURE AND DETOUR. DETOUR TRAFFIC USING
TH 371 AND TH 210.

DATE: 4/20/2026 TIME: 9:48:01 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-425tcp-details.dgn

DRAWN BY: LS DESIGNED BY: MS CHECKED BY: MS	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE: Michael Shomion PRINTED NAME: MICHAEL SHOMOIN, PE DATE: 4/20/2026 LIC. NO. 50488	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	NARRATIVE CONSTRUCTION STAGING & TRAFFIC CONTROL	SP 230-090-003 / SP 018-070-024 Sheet No. 23 of 100 Sheets





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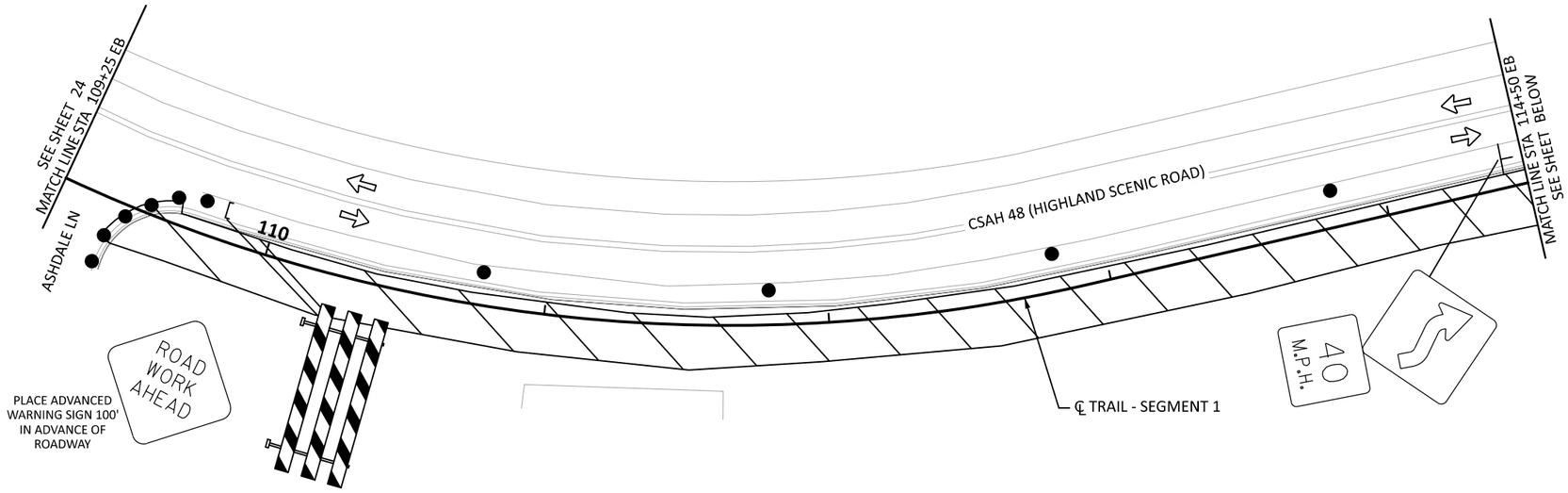
SIGNATURE: Michael Shomion
PRINTED NAME: MICHAEL SHOMOIN, PE
DATE: 4/20/2026 LIC. NO. 50488

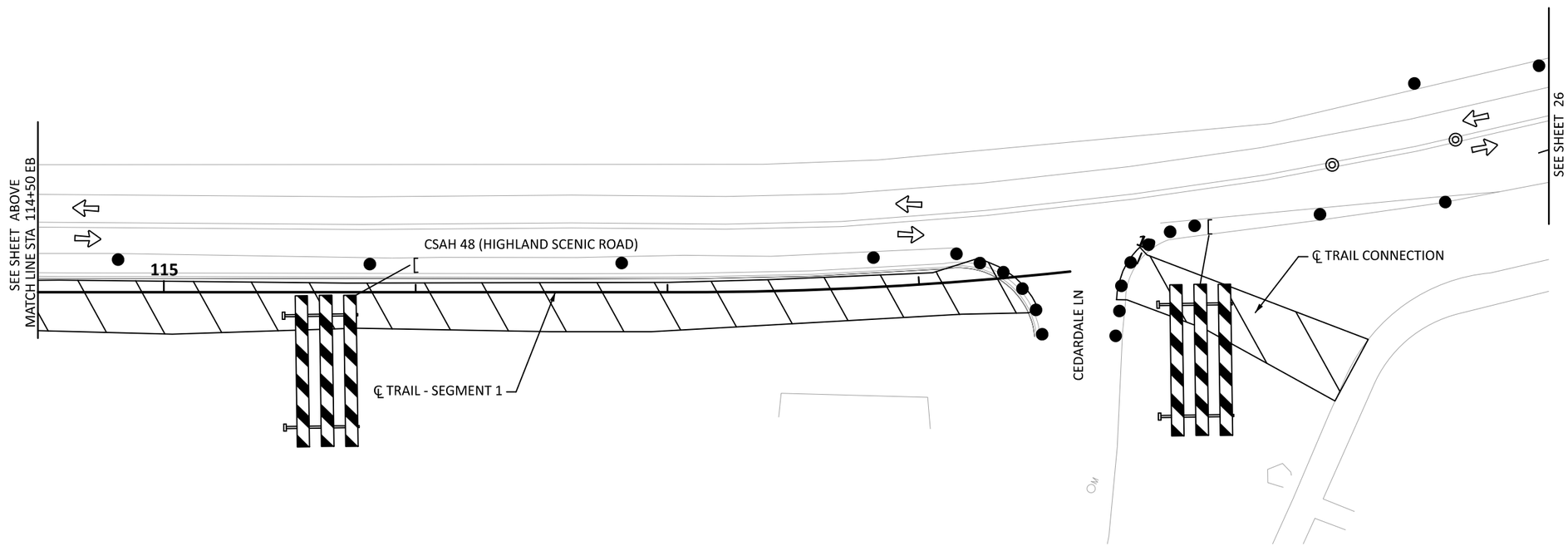
wsb

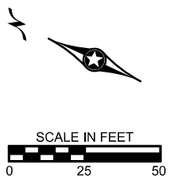
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

STAGE 1
CONSTRUCTION STAGING & TRAFFIC CONTROL

SP 230-090-003 / SP 018-070-024

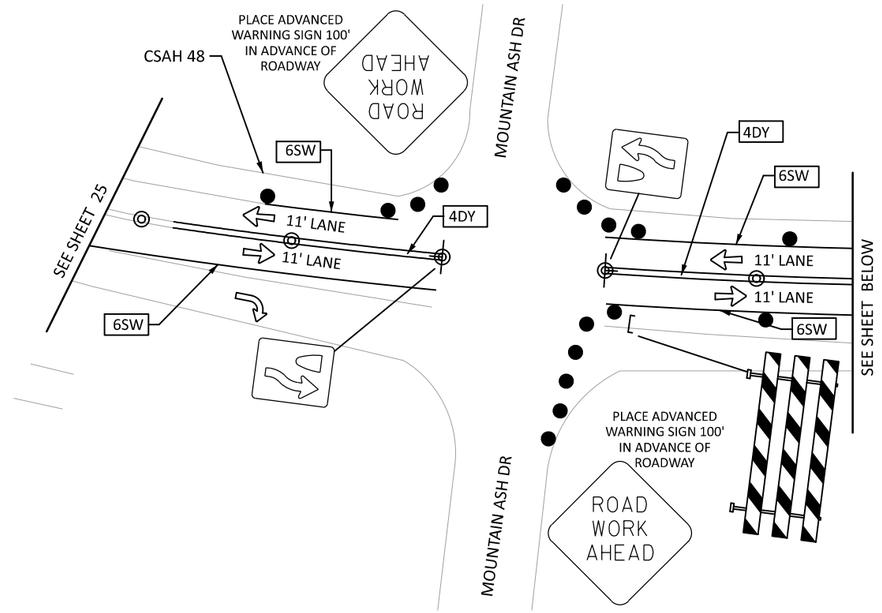


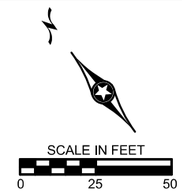


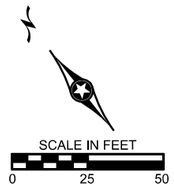


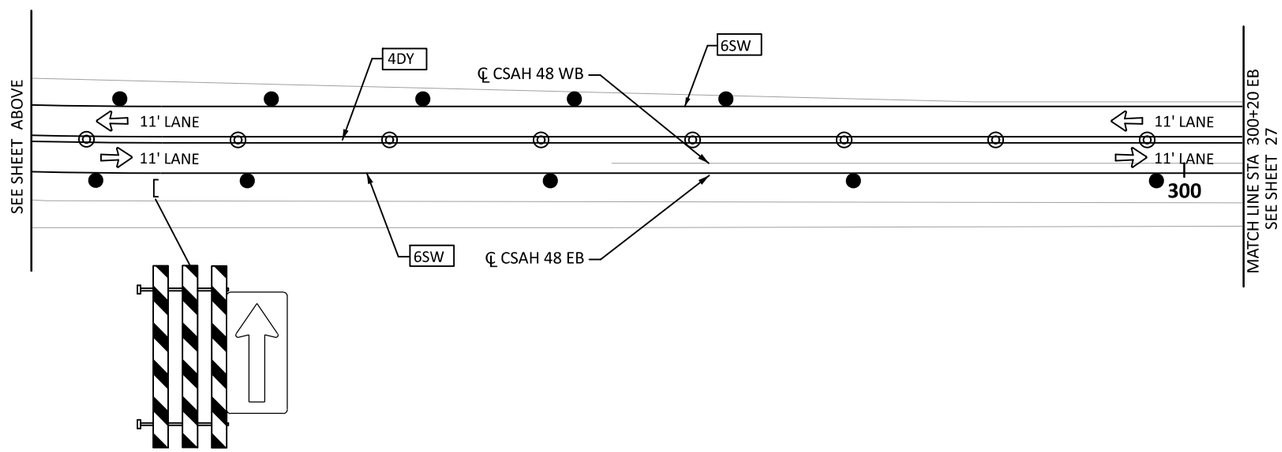
DATE: 4/20/2026 TIME: 9:48:11 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-425tcp-001.dgn

DRAWN BY: LS DESIGNED BY: MS CHECKED BY: MS	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE: Michael Shomion PRINTED NAME: MICHAEL SHOMOIN, PE DATE: 4/20/2026 LIC. NO. 50488	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	STAGE 1 CONSTRUCTION STAGING & TRAFFIC CONTROL	SP 230-090-003 / SP 018-070-024 Sheet No. 25 of 100 Sheets









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DESIGNED BY:	MS
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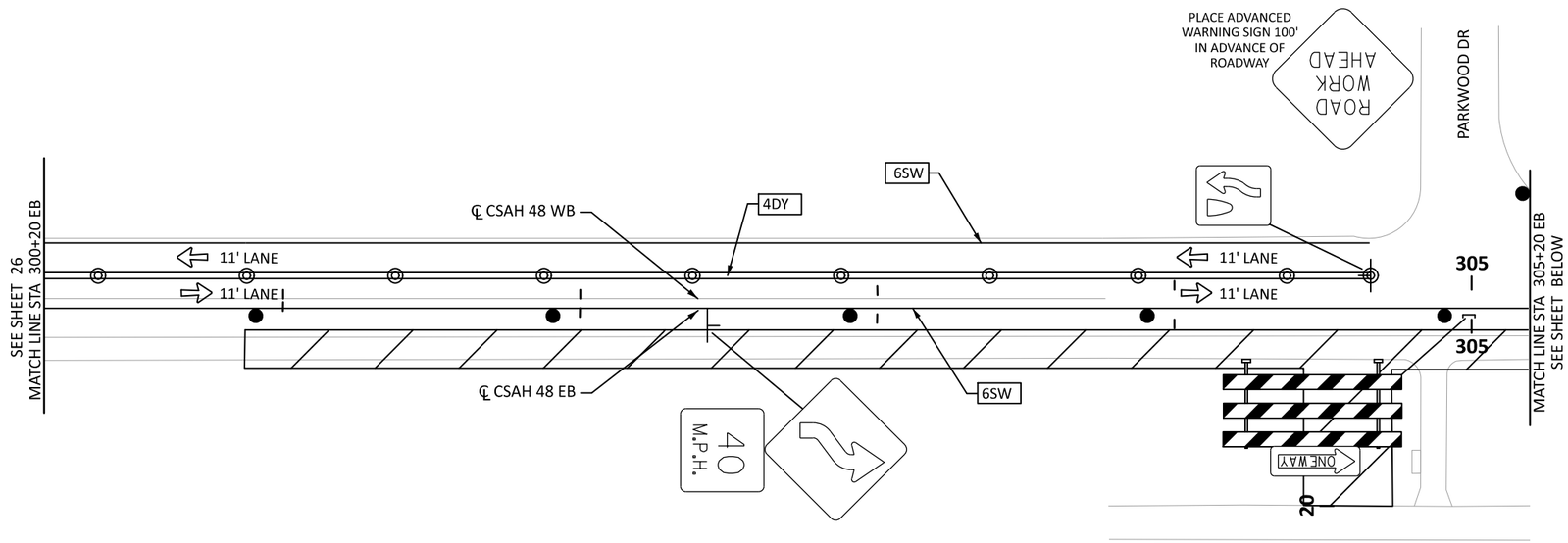
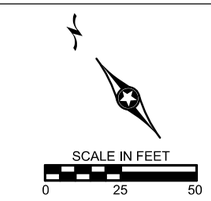
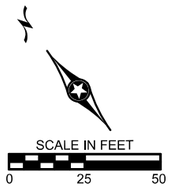
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

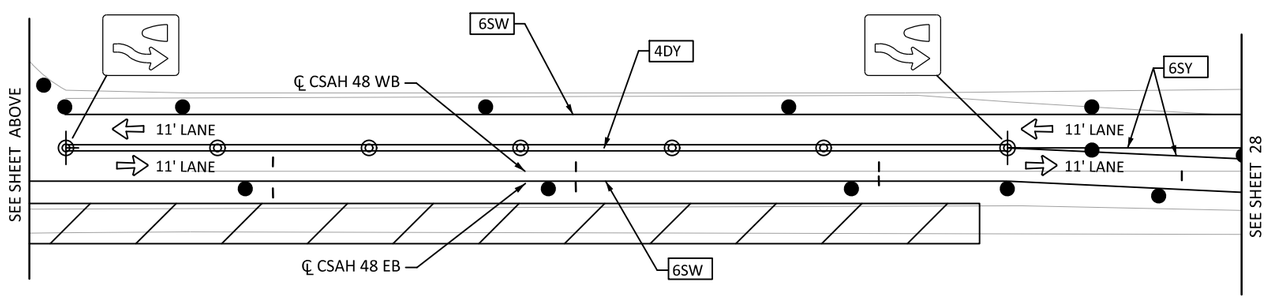
STAGE 1
CONSTRUCTION STAGING & TRAFFIC CONTROL

SP 230-090-003 / SP 018-070-024









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CSAH 48 Trail
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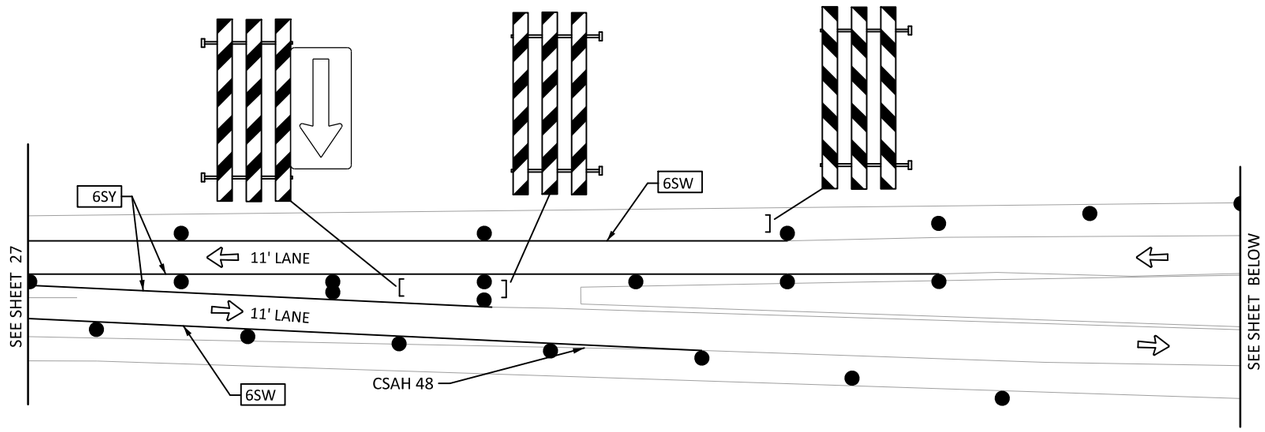
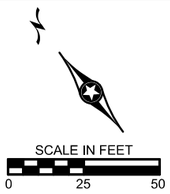
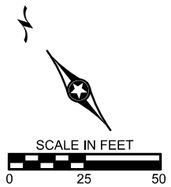
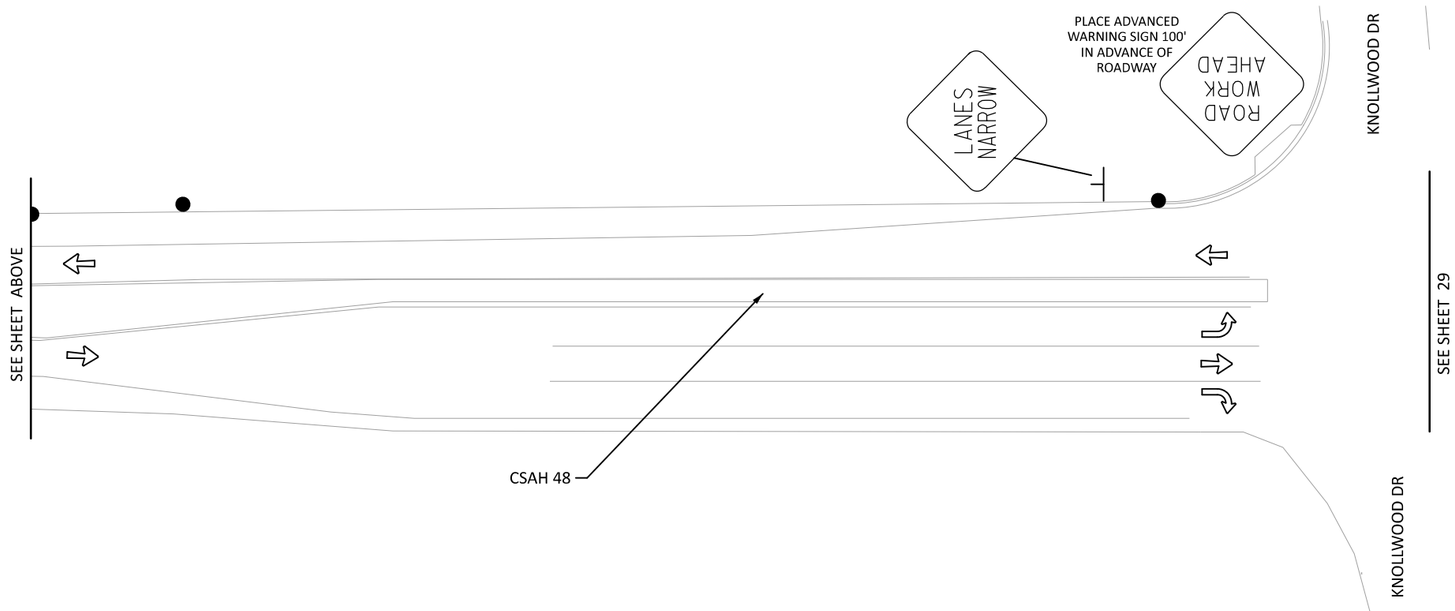
STAGE 1
CONSTRUCTION STAGING & TRAFFIC CONTROL

SP 230-090-003 / SP 018-070-024









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CSAH 48 Trail
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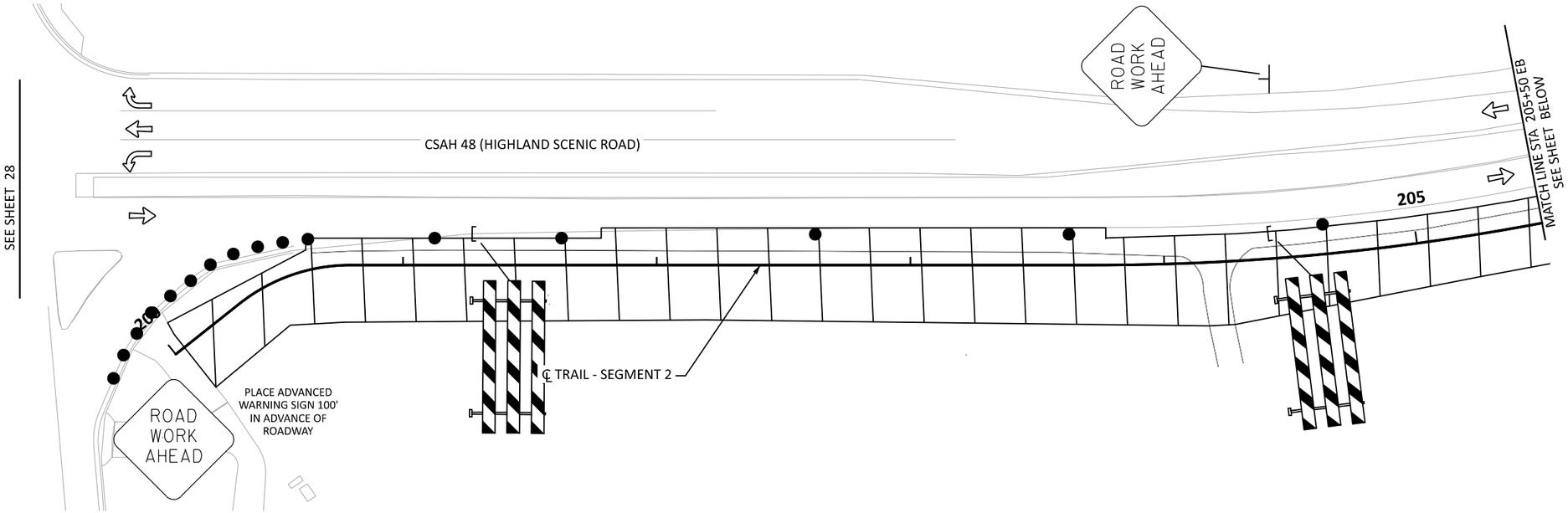
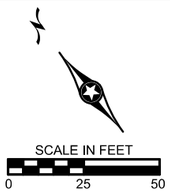
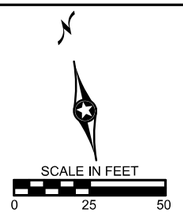
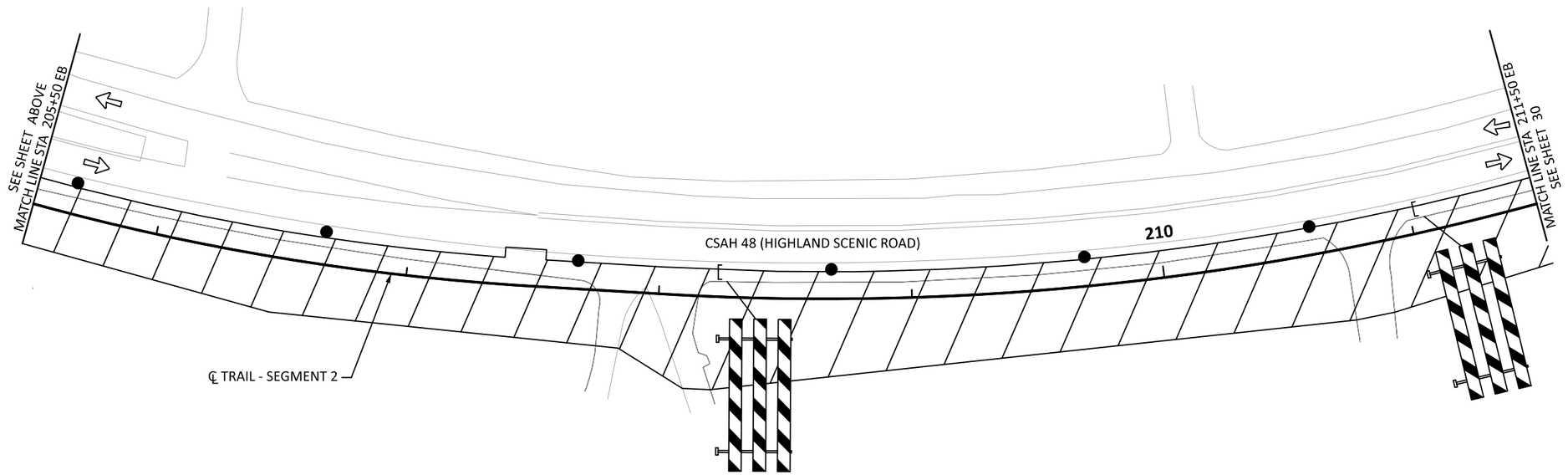
STAGE 1
CONSTRUCTION STAGING & TRAFFIC CONTROL

SP 230-090-003 / SP 018-070-024









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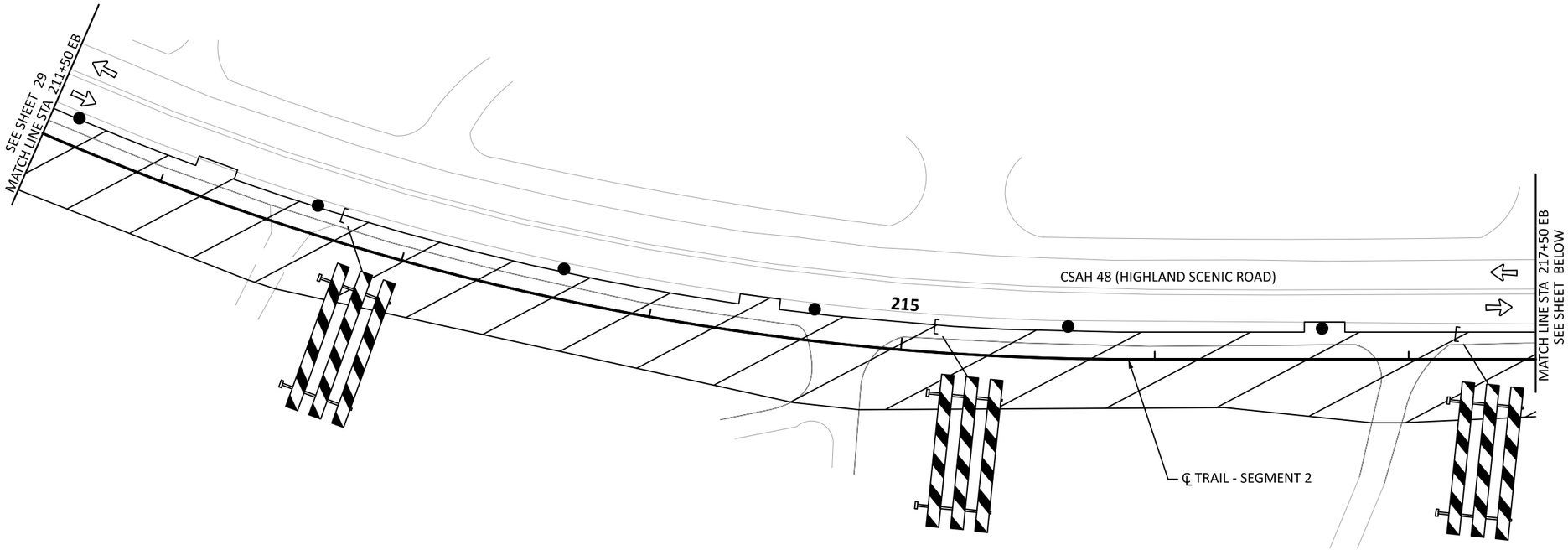
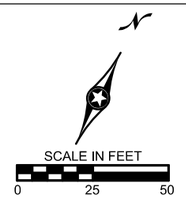
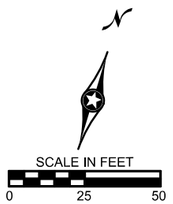
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

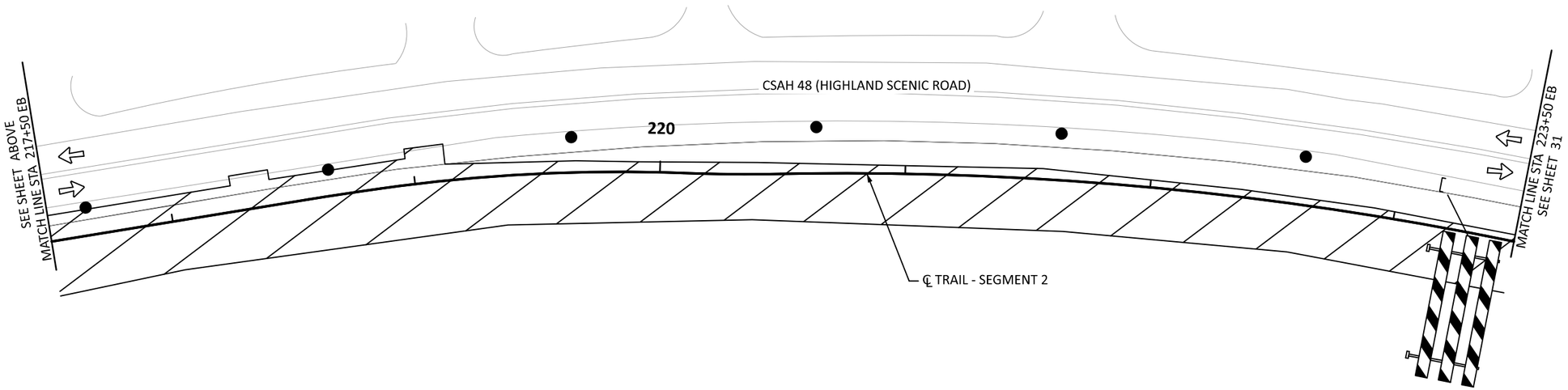
STAGE 1
CONSTRUCTION STAGING & TRAFFIC CONTROL

SP 230-090-003 / SP 018-070-024









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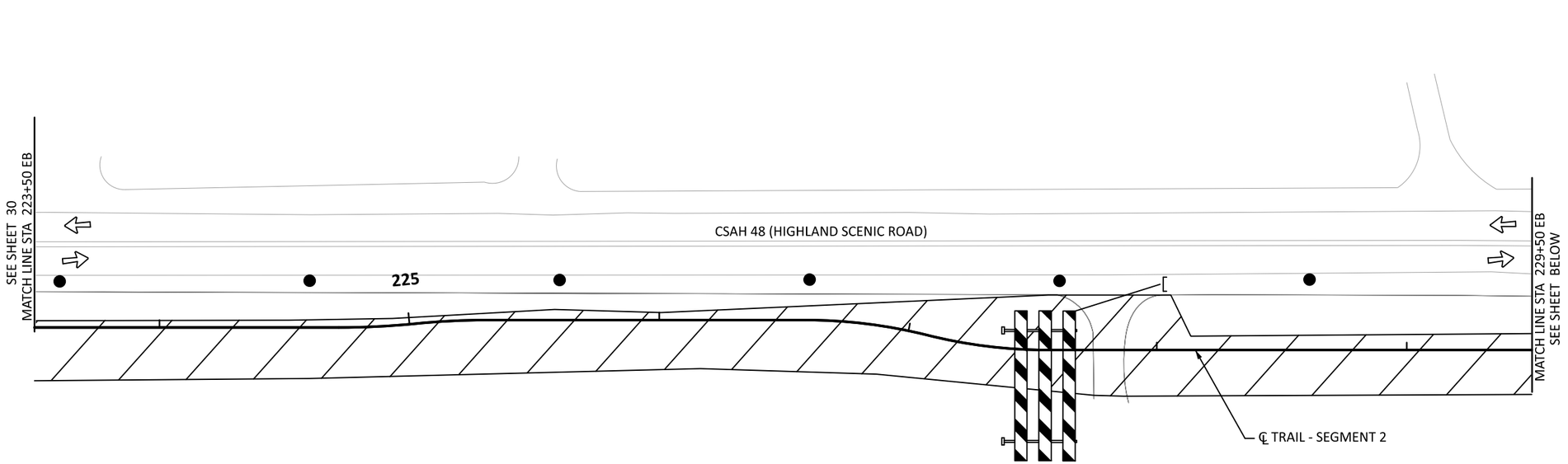
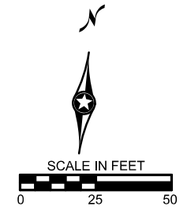
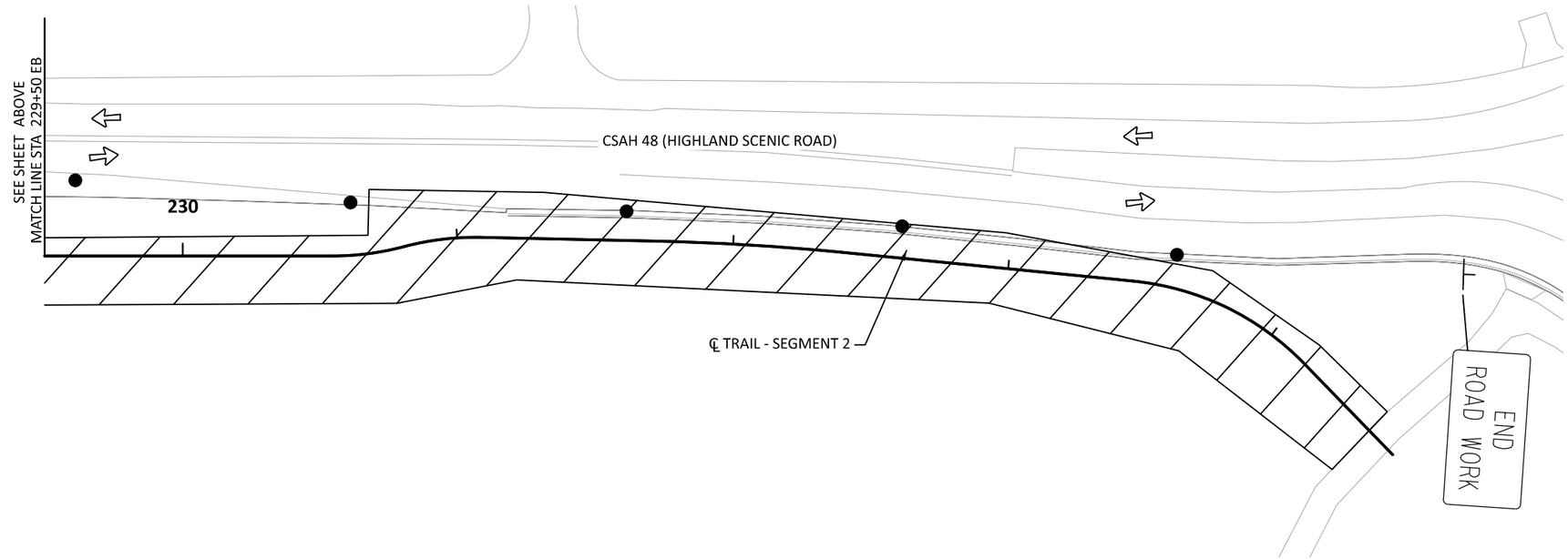
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

STAGE 1
CONSTRUCTION STAGING & TRAFFIC CONTROL

SP 230-090-003 / SP 018-070-024







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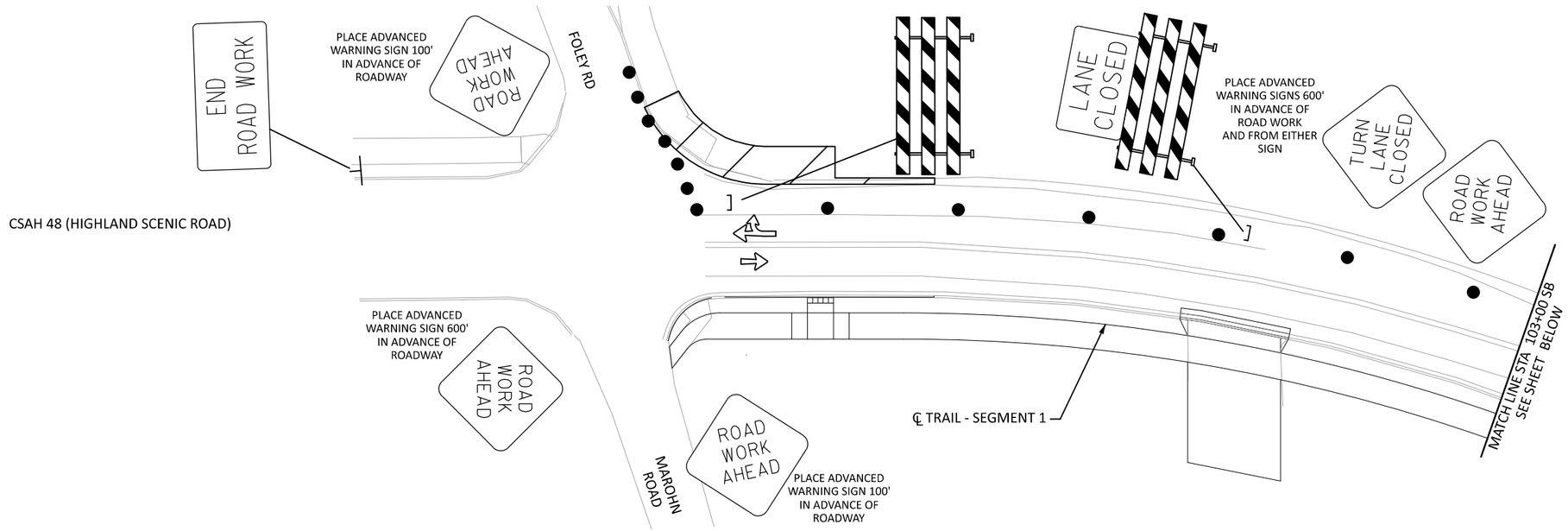

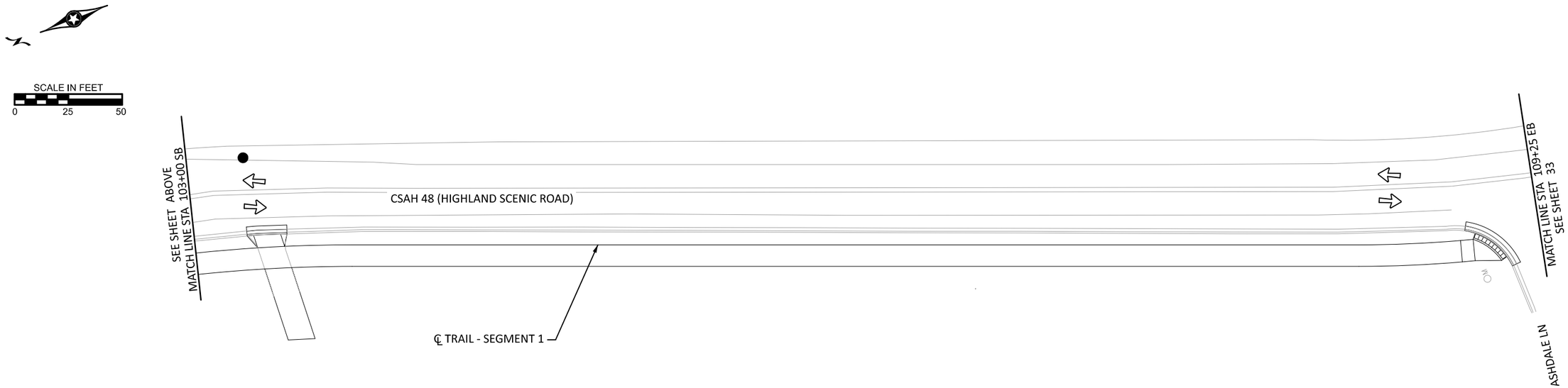

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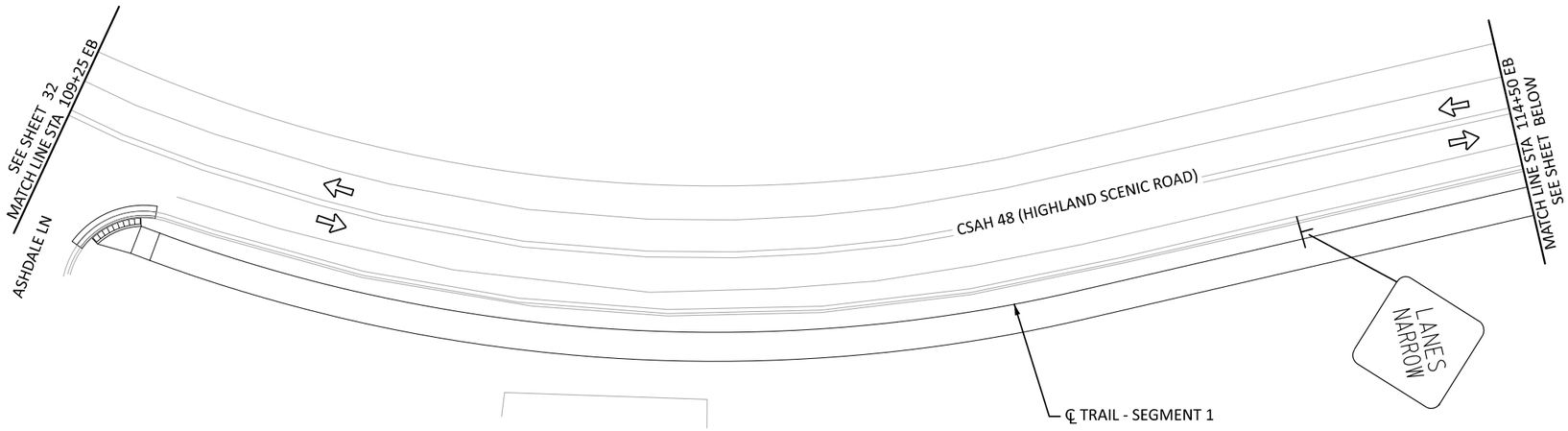
wsb

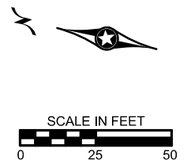
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

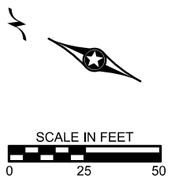
STAGE 2
CONSTRUCTION STAGING & TRAFFIC CONTROL

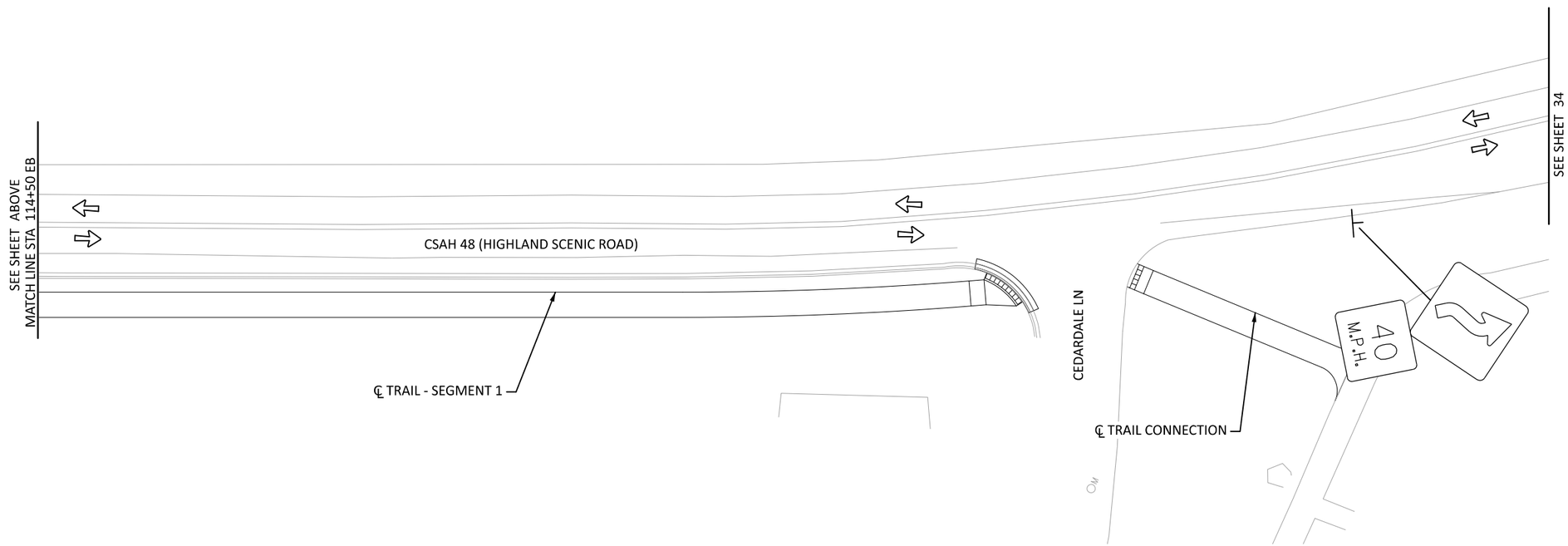
SP 230-090-003 / SP 018-070-024

Sheet No. 32 of 100 Sheets









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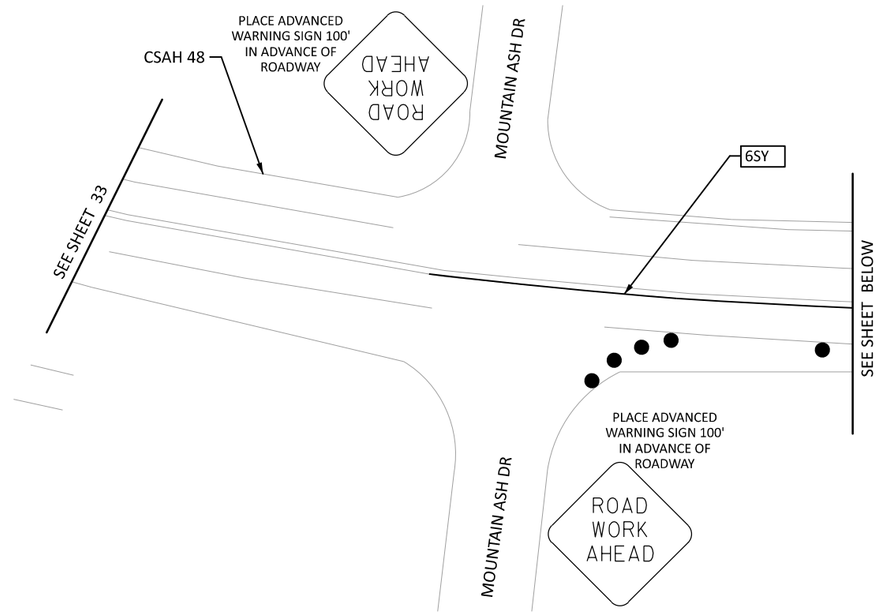
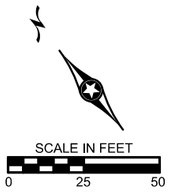
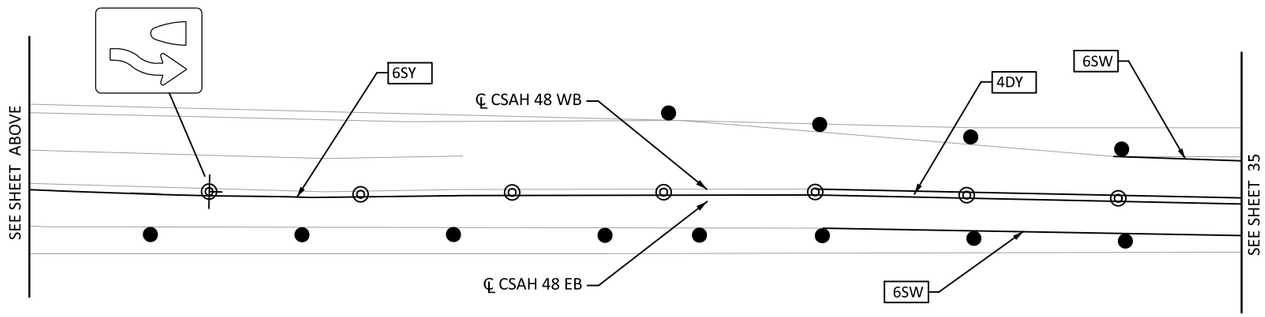
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

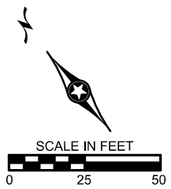
STAGE 2
CONSTRUCTION STAGING & TRAFFIC CONTROL

SP 230-090-003 / SP 018-070-024









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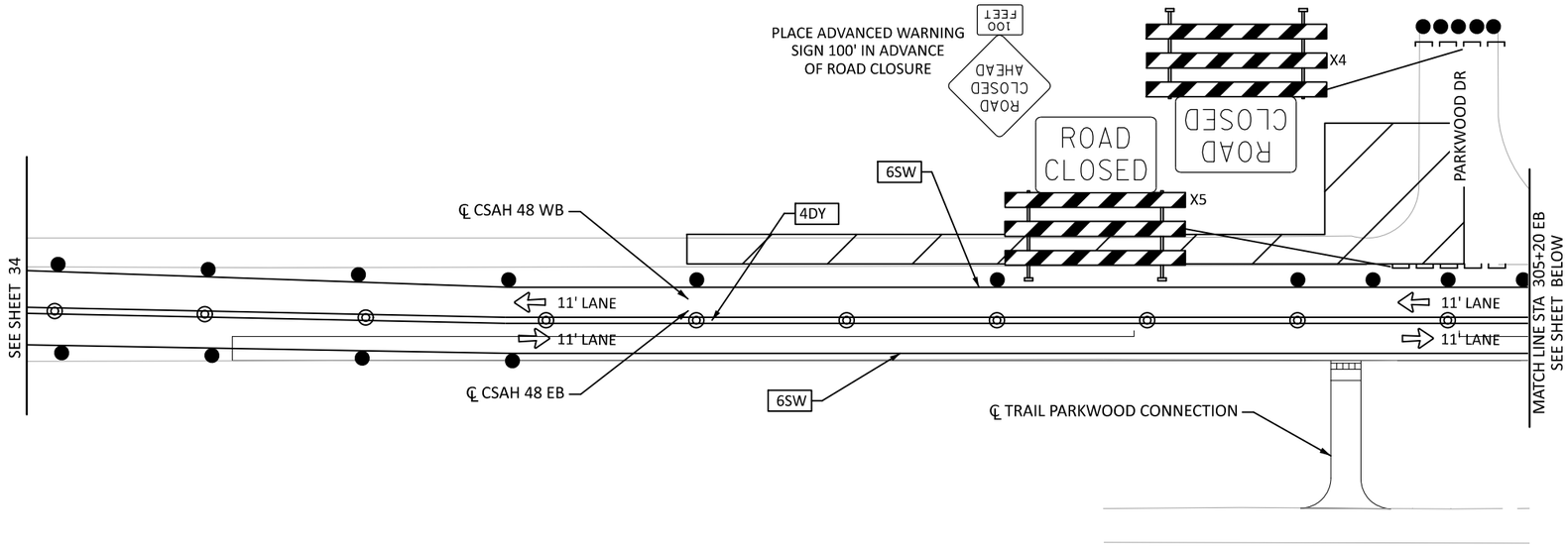
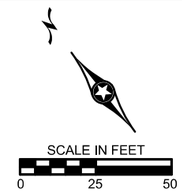
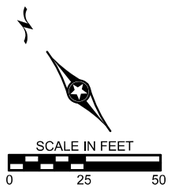
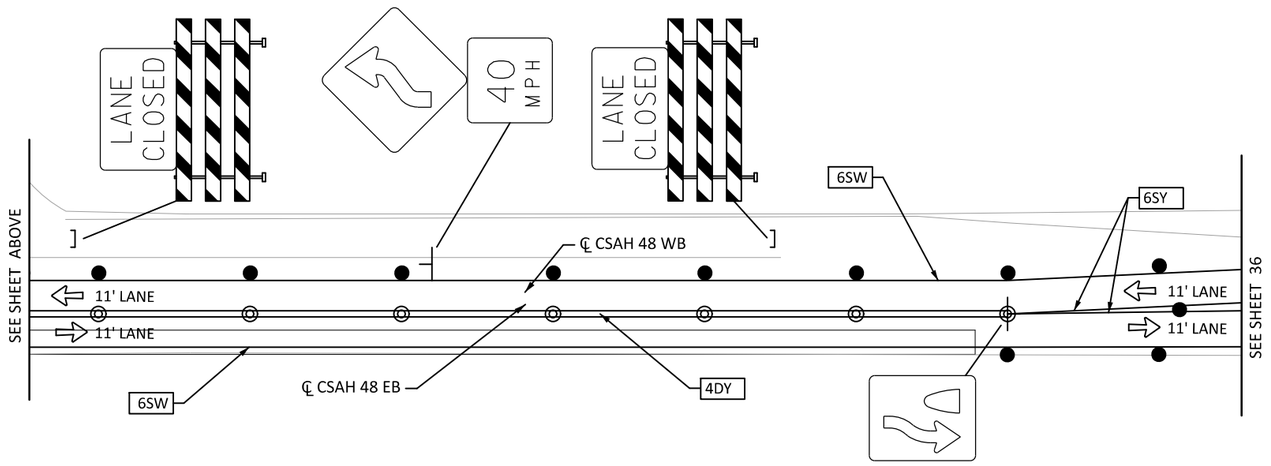
STAGE 2
CONSTRUCTION STAGING & TRAFFIC CONTROL

SP 230-090-003 / SP 018-070-024









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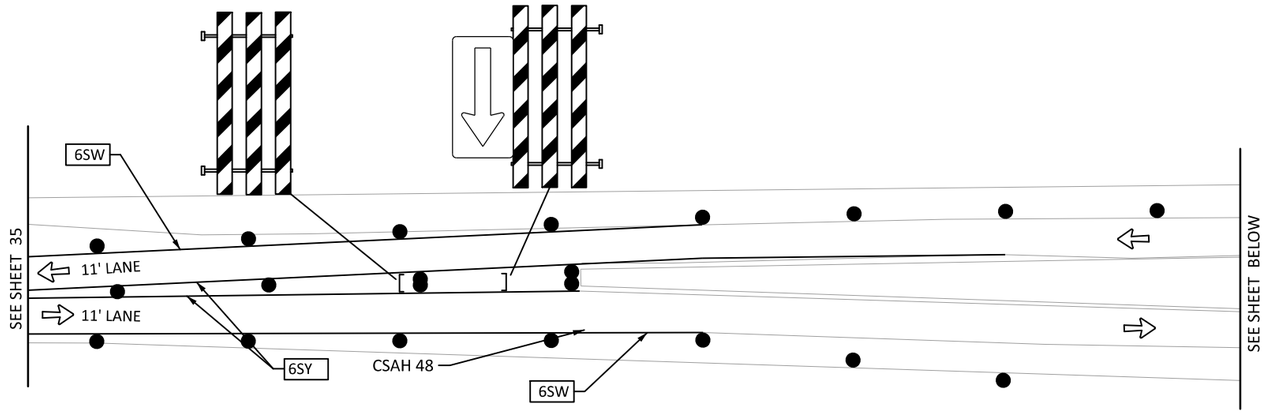
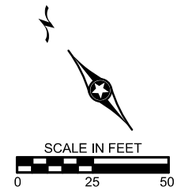
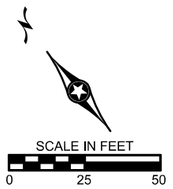
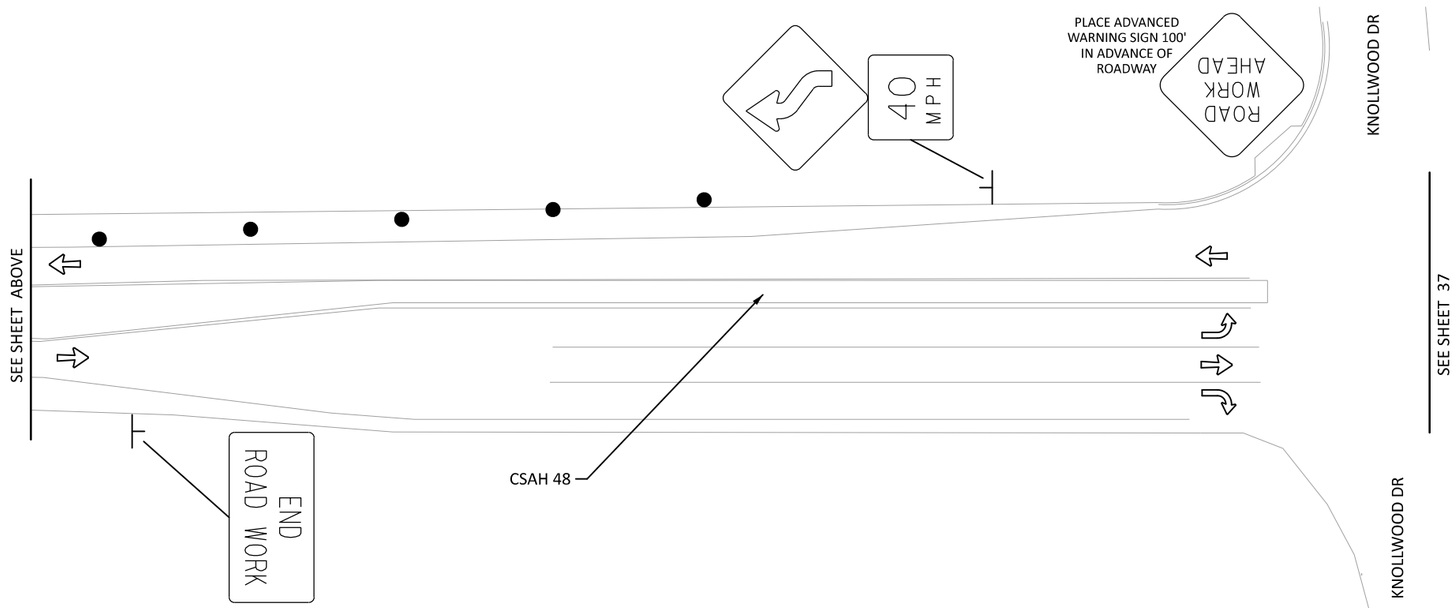
STAGE 2
CONSTRUCTION STAGING & TRAFFIC CONTROL

SP 230-090-003 / SP 018-070-024









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DRAWN BY:	LS
DESIGNED BY:	MS
CHECKED BY:	MS

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Michael Shomion
PRINTED NAME: MICHAEL SHOMOIN, PE
DATE: 4/20/2026 LIC. NO. 50488

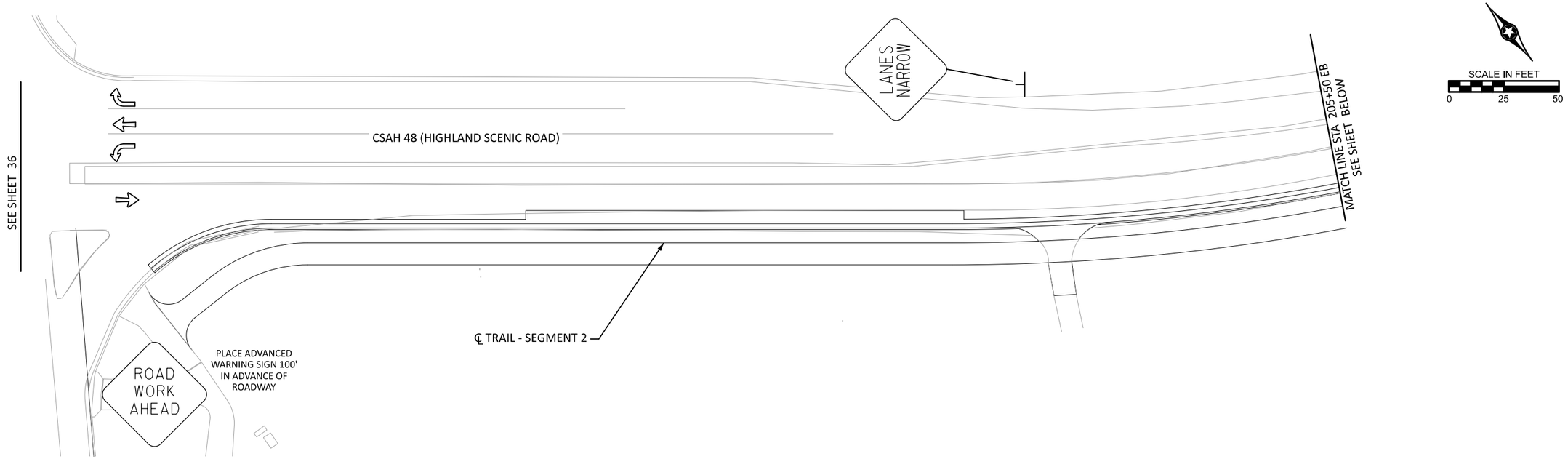
wsb

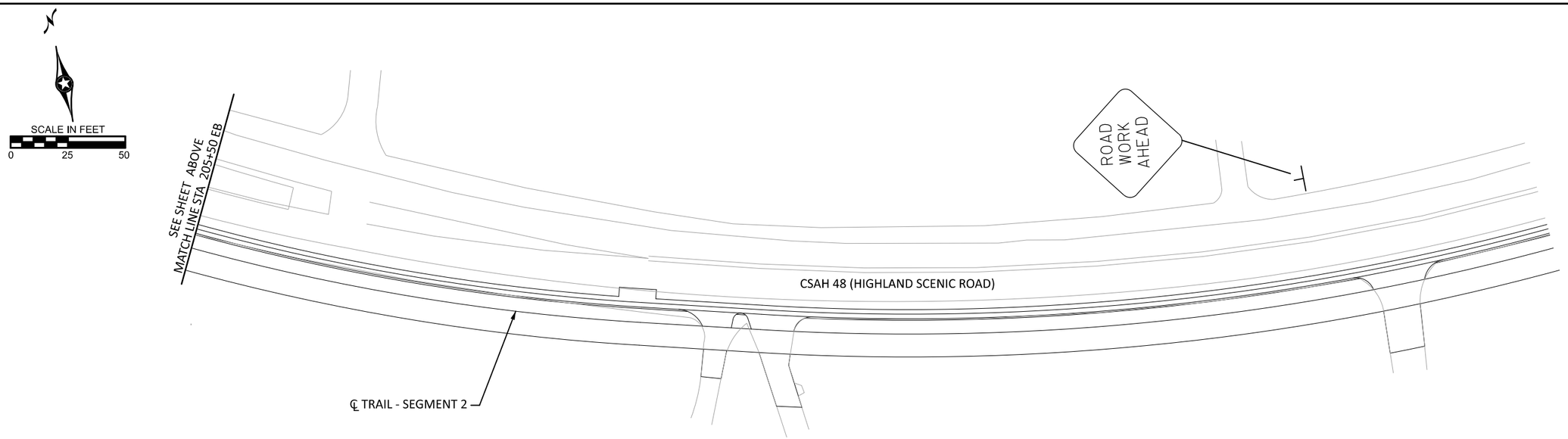
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

STAGE 2
CONSTRUCTION STAGING & TRAFFIC CONTROL

SP 230-090-003 / SP 018-070-024

Sheet No. 36 of 100 Sheets





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CHECKED BY:	MS

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SIGNATURE: Michael Shomion
PRINTED NAME: MICHAEL SHOMOIN, PE
DATE: 4/20/2026 LIC. NO. 50488

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

STAGE 2
CONSTRUCTION STAGING & TRAFFIC CONTROL

SP 230-090-003 / SP 018-070-024

NOTES:

1. MAINTAIN ACCESS TO RESIDENTS AT ALL TIMES.
2. NOT TO SCALE

DETOUR ROUTE: ——

A — ROAD CLOSED

B — ROAD CLOSED

POSTED SPEED LIMIT PRIOR TO WORK STARTING	SPACING OF CHANNELIZING DEVICES (G)	SPACING OF ADVANCE WARNING SIGNS (A)	DECISION SIGHT DISTANCE	TAPER LENGTH (L)	SHIFTING TAPER (L/2)	TYPICAL SHOULDER TAPER (L/3)	BUFFER SPACE (B)
(MPH)	FEET	FEET	FEET	FEET	FEET	FEET	FEET
0 - 30	25	100	550	200	100	75	200
35 - 40		325	700	325	175	125	305
45 - 50	50	600	900	600	300	200	425
55		750	1200	700	350	250	500
60 - 65		1000	1400	800	400	275	650
70 - 75		1200	1600	900	450	300	820

ALL DISTANCES BASED ON 12 FT LANE WIDTHS.

DATE: 4/20/2026 TIME: 9:48:40 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-425tcp-003.dgn

DRAWN BY:	LS
DESIGNED BY:	MS
CHECKED BY:	MS

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Michael Shomion
PRINTED NAME: MICHAEL SHOMOIN, PE
DATE: 4/20/2026 LIC. NO. 50488

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

STAGE 3
CONSTRUCTION STAGING & TRAFFIC CONTROL

SP 230-090-003 / SP 018-070-024

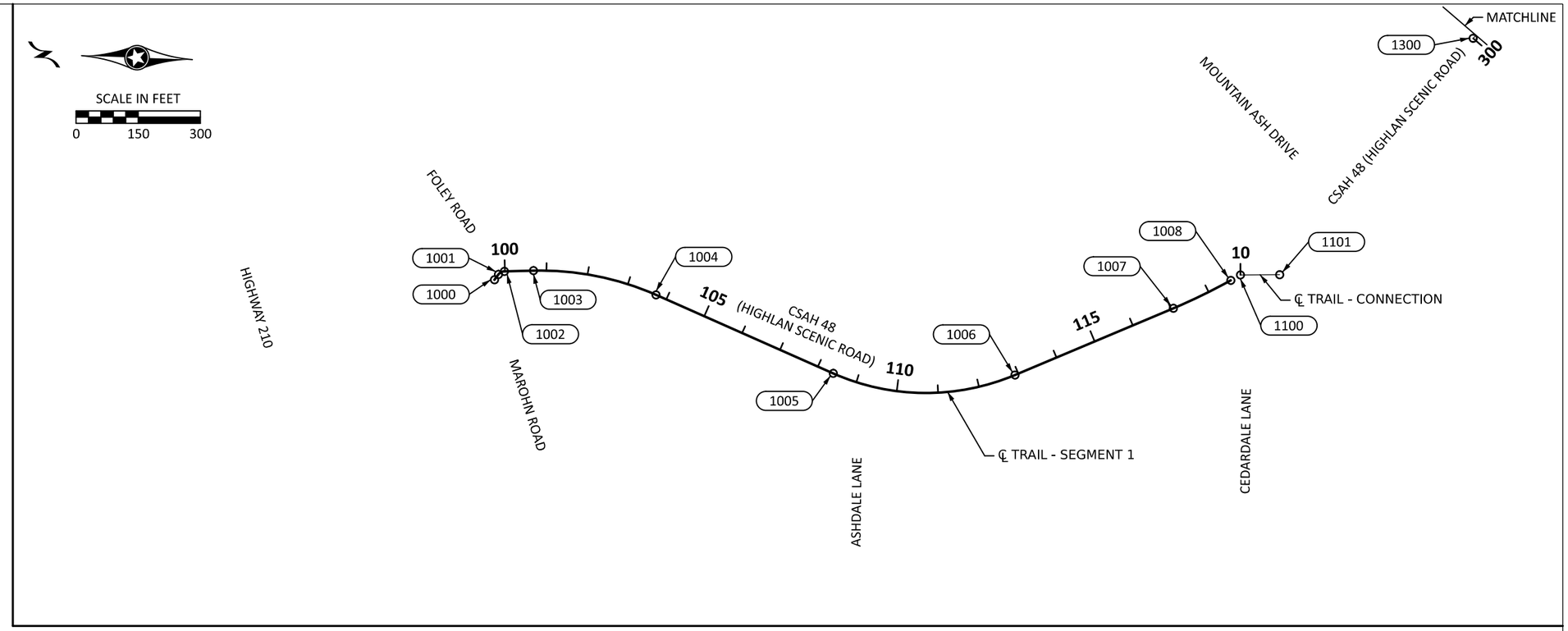
LEGEND

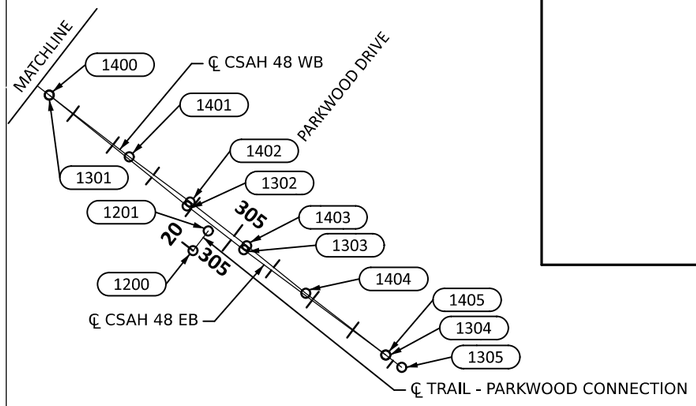
XXXX — POINT NUMBER (DETAILS FOUND ON ALIGNMENT TABULATION SHEETS)

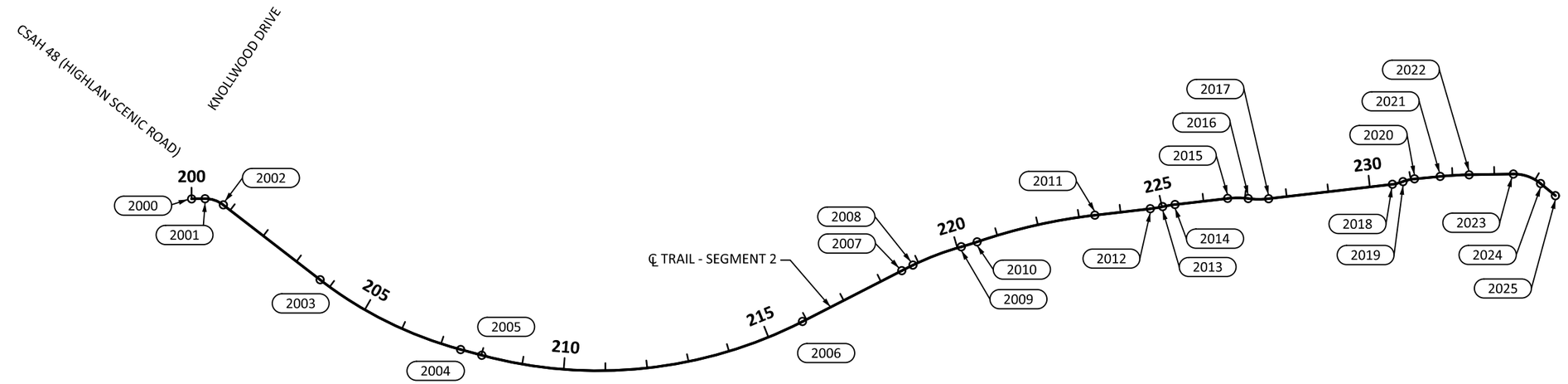
THE HORIZONTAL CONTROL FOR THIS PLAN IS CROW WING COUNTY COORDINATES NAD 83 (2011 ADJUSTMENT)

VERTICAL CONTROL FOR THIS PLAN IS NAVD 88.

SCALE IN FEET
0 150 300







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SCALE IN FEET
0 150 300

DATE: 4/20/2026 TIME: 9:48:49 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-170ali-001

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

ALIGNMENT PLAN & TABULATIONS

SP 230-090-003 / SP 018-070-024

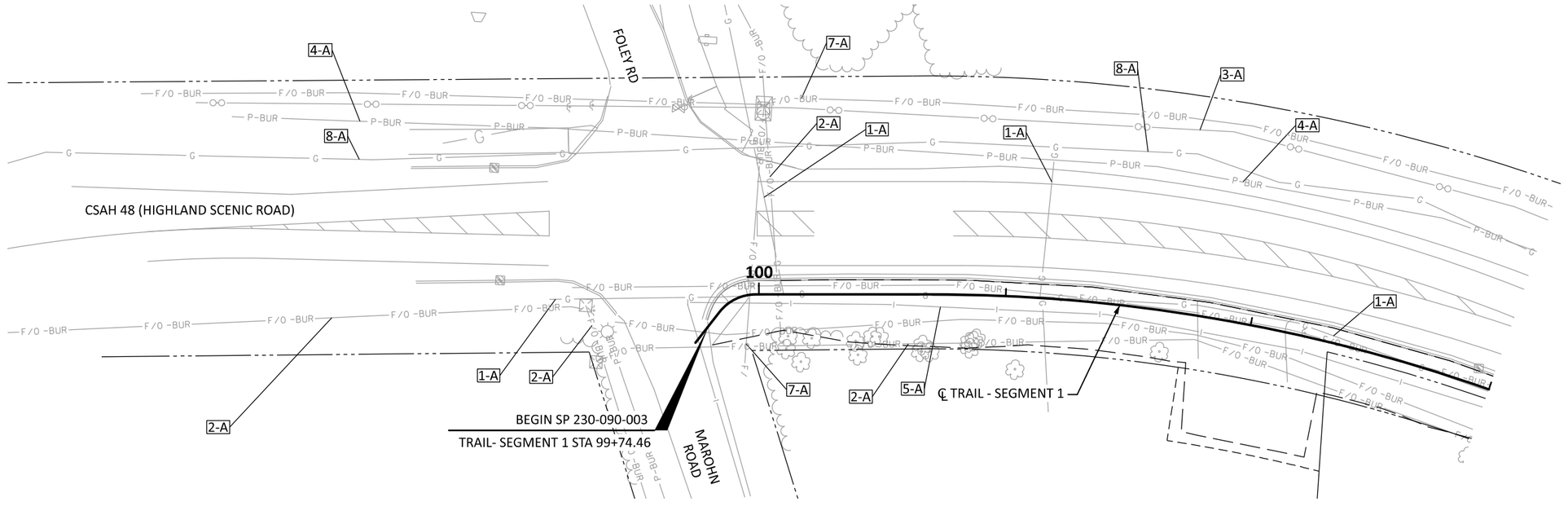
Sheet No. 39 of 100 Sheets

ALIGNMENT TABULATION

POINT NUMBER	POINT	STATION	CIRCULAR CURVE DATA DELTA	DEGREE	RADIUS	TANGENT	LENGTH	COORDINATES EASTING (X)	NORTHING (Y)	DIRECTION AZIMUTH
			SPIRAL CURVE DATA THETA	DEGREE	ST	LT	LS			
ALIGNMENT: TRAIL - SEGMENT 1										
1000	START	99+66.07 R1						545496.004	167759.093	
1001	PC	99+81.92 R1						545509.038	167750.078	124.671°
	HPI	99+90.99 R1	51.797° RT	306.736°	18.68	9.07	16.89	545516.497	167744.919	PI
	CC							545498.412	167734.716	
1002	PT	99+98.81 R1						545517.056	167735.866	176.468°
1003	PC	100+69.00 R1						545521.380	167665.803	176.468°
	HPI	102+23.42 R1	25.336° RT	8.340°	687	154.42	303.79	545530.894	167511.679	PI
	CC							544835.685	167623.478	
1004	PT	103+72.79 R1						545473.539	167368.308	201.804°
1005	PC	108+40.53 R1						545299.806	166934.025	201.804°
	HPI	110+79.34 R1	46.714° LT	10.361°	553	238.81	450.86	545211.106	166712.299	PI
	CC							545813.246	166728.626	
1006	PT	112+91.40 R1						545311.691	166495.706	155.090°
1007	PC	117+06.11 R1						545486.366	166119.570	155.090°
	HPI	117+83.24 R1	6.119° LT	3.971°	1443	77.12	154.1	545518.850	166049.623	PI
	CC							546795.126	166727.351	
1008	PT	118+60.21 R1						545558.604	165983.536	148.971°
ALIGNMENT: TRAIL CONNECTION										
1100	START	10+00.00 R1						545572.609	165960.735	
1101	END	10+94.65 R1						545576.586	165866.165	177.592°
ALIGNMENT: TRAIL_PARKWOOD CONNECTION										
1200	START	20+00.00 R1						546473.586	165082.295	
1201	END	20+49.35 R1						546504.446	165120.801	38.709°
ALIGNMENT: CSAH 48 EB										
1300	START	300+00.00 R1						546163.362	165420.32	
1301	HPI	300+40.00 R1						546194.576	165395.305	S51.291°E
1302	HPI	303+90.07 R1						546463.313	165170.963	S50.145°E
1303	HPI	305+31.73 R1						546573.855	165082.373	S51.291°E
1304	HPI	308+81.80 R1						546851.348	164868.956	S52.436°E
1305	END	309+21.80 R1						546882.561	164843.941	S51.291°E
ALIGNMENT: CSAH 48 WB										
1400	START	300+40.00 R1						546194.576	165395.305	
1401	HPI	302+40.00 R1						546350.641	165270.231	S51.291°E
1402	HPI	303+90.03 R1						546469.567	165178.767	S52.436°E
1403	HPI	305+31.69 R1						546580.109	165090.176	S51.291°E
1404	HPI	306+81.72 R1						546695.282	164994.03	S50.145°E
1405	END	308+81.72 R1						546851.348	164868.956	S51.291°E

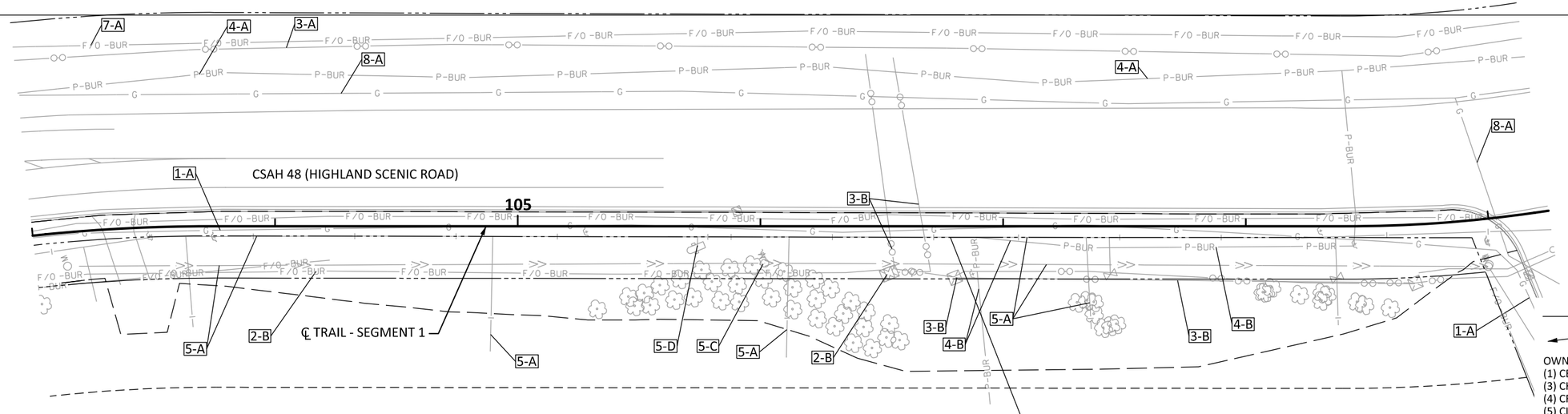
ALIGNMENT TABULATION

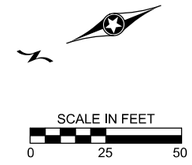
POINT NUMBER	POINT	STATION	CIRCULAR CURVE DATA DELTA	DEGREE	RADIUS	TANGENT	LENGTH	COORDINATES EASTING (X)	NORTHING (Y)	DIRECTION AZIMUTH
			SPIRAL CURVE DATA THETA	DEGREE	ST	LT	LS			
ALIGNMENT: TRAIL - SEGMENT 2										
2000	START	200+00.00 R1						547555.532	164211.202	
2001	PC	200+32.20 R1						547587.731	164211.014	90.334°
	HPI	200+56.56 R1	38.375° RT	81.851°	70	24.36	46.88	547612.09	164210.872	PI
	CC							547587.322	164141.015	
2002	PT	200+79.08 R1						547631.098	164195.638	128.709°
2003	PC	203+71.59 R1						547859.347	164012.716	128.709°
	HPI	205+62.62 R1	22.601° LT	5.993°	956	191.04	377.11	548008.42	163893.246	PI
	CC							548457.2	164758.71	
2004	PT	207+48.70 R1						548191.958	163840.242	106.108°
2005	PC	208+01.12 R1						548242.325	163825.697	106.108°
	HPI	212+14.15 R1	42.160° LT	5.347°	1071.5	413.03	788.45	548639.139	163711.102	PI
	CC							548539.613	164855.13	
2006	PT	215+89.57 R1						549010.203	163892.5	63.948°
2007	PC	218+56.07 R1						549249.625	164009.544	63.948°
	HPI	218+70.96 R1	1.256° RT	4.218°	1358.51	14.89	29.78	549263.005	164016.074	PI
	CC							549845.533	162788.708	
2008	PCC	218+85.84 R1						549276.524	164022.31	65.238°
	HPI	219+47.91 R1	10.135° RT	8.185°	700	62.07	123.82	549332.889	164048.309	PI
	CC							549569.718	163386.671	
2009	PRC	220+09.66 R1						549392.949	164063.984	75.373°
	HPI	220+29.45 R1	3.238° LT	8.185°	700	19.78	39.56	549412.092	164068.98	PI
	CC							549216.18	164741.297	
2010	PRC	220+49.22 R1						549430.923	164075.049	72.135°
	HPI	221+94.32 R1	12.255° RT	4.239°	1351.5	145.09	289.08	549569.021	164119.561	PI
	CC							549845.532	162788.715	
2011	PT	223+38.30 R1						549713.421	164133.744	84.390°
2012	PC	224+71.71 R1						549846.191	164146.785	84.390°
	HPI	224+86.73 R1	5.732° LT	19.099°	300	15.02	30.01	549861.138	164148.253	PI
	CC							549816.866	164445.348	
2013	PRC	225+01.72 R1						549875.864	164151.207	78.658°
	HPI	225+16.74 R1	5.732° RT	19.099°	300	15.02	30.01	549890.589	164154.16	PI
	CC							549934.861	163857.065	
2014	PT	225+31.74 R1						549905.536	164155.628	84.390°
2015	PC	226+58.36 R1						550031.557	164168.006	84.390°
	HPI	226+83.05 R1	14.070° RT	28.648°	200	24.68	49.11	550056.12	164170.419	PI
	CC							550051.108	163968.964	
2016	PRC	227+07.48 R1						550080.532	164166.788	98.460°
	HPI	227+32.16 R1	14.070° LT	28.648°	200	24.68	49.11	550104.944	164163.157	PI
	CC							550109.956	164364.612	
2017	PT	227+56.59 R1						550129.506	164165.569	84.390°
2018	PC	230+54.44 R1						550425.932	164194.685	84.390°
	HPI	230+67.56 R1	14.947° LT	57.296°	100	13.118	26.088	550438.987	164195.967	PI
	CC							550416.157	164294.206	
2019	PRC	230+80.53 R1						550451.27	164200.573	N69.443°E
	HPI	230+94.74 R1	16.179° RT	57.296°	100	14.214	28.238	550464.579	164205.564	PI
	CC							550486.384	164106.941	
2020	PT	231+08.77 R1						550478.751	164206.649	N85.623°E
2021	PC	231+70.62 R1						550540.419	164211.37	N85.623°E
	HPI	232+05.16 R1	4.410° RT	6.387°	897	34.541	69.049	550574.86	164214.006	PI
	CC							550608.884	163316.987	
2022	PT	232+39.67 R1						550609.401	164213.986	S89.967°E
2023	PC	233+45.52 R1						550715.259	164213.926	S89.967°E
	HPI	233+82.16 R1	40.244° RT	57.296°	100	36.638	70.238	550751.897	164213.904	PI
	CC							550715.202	164113.926	
2024	PT	234+15.76 R1						550779.849	164190.219	S49.723°E
2025	END	234+61.69 R1						550814.891	164160.526	S49.723°E



LEGEND

- TV-BUR — BURIED COPPER
- F/O -BUR — BURIED FIBER
- BURIED COMM. LINE
- OHP — OVERHEAD POWER
- P-BUR — BURIED POWER
- G — BURIED GAS
- PED BOX / HANDHOLE
- POWER POLE
- LIGHT POST
- M — MANHOLE
- WATERMAIN
- SANITARY SEWER
- STORM SEWER
- CONSTRUCTION LIMITS
- EXISTING R/W
- TEMPORARY EASEMENT
- PERMANENT EASEMENT





UTILITY NOTES

1-A — UTILITY CONFLICT AREA (OWNER - IMPACT)

OWNERSHIP:
(1) CENTERPOINT ENERGY MN GAS, (2) CENTURYLINK (LUMEN),
(3) CHARTER SPECTRUM MID-AMERICA LLC,
(4) CROW WING COOP POWER & LIGHT COMPANY,
(5) CITY OF BAXTER, (6) MNDOT,
(7) CONSOLIDATED TELEPHONE COMPANY, (8) XCEL ENERGY

IMPACTS NOTES ON PLAN SHEETS:
(A) LEAVE AS IS, (B) ADJUST -VERTICAL LOWER
(C) ADJUST -VERTICAL RAISE,(D) RELOCATE,
(E) ADJUST -HORIZONTALLY, (F) REMOVE,
(G) LEAVE IN-PLACE / OUT-OF-SERVICE

UTILITY CONFLICTS ARE DENOTED IN EXCAVATION AREAS ONLY.

SEE CONSTRUCTION PLANS AND DRAINAGE PLANS FOR PUBLIC UTILITY ADJUSTMENT AND RELOCATION DETAILS.

GENERAL NOTES:

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO GUIDELINES OF ASCE/UESI/CI 38-22 ENTITLED "STANDARD GUIDELINE FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES".

- THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE UTILITY COMPANIES. CALL GOPHER STATE ONE CALL (GSOC) AT LEAST 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

- THE OWNER AND IMPACT NOTES ARE BASED UPON THE BEST INFORMATION AVAILABLE AND MAY NOT REFLECT THE ACTUAL EFFECTS ON THE UTILITIES BY CONSTRUCTION. FINAL DETERMINATIONS WILL BE MADE IN THE FIELD DURING CONSTRUCTION.

- SOME UTILITIES MAY HAVE RELOCATED PRIOR TO CONSTRUCTION.

-THE CONTRACTOR SHALL COORDINATE THEIR WORK AND COOPERATE WITH THE UTILITY OWNERS AND THEIR FORCES. SOME UTILITIES MAY NEED TO BE RELOCATED CONCURRENTLY WITH THE CONTRACTOR'S WORK.

DRAWN BY: AS
DESIGNED BY: MKV
CHECKED BY: JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

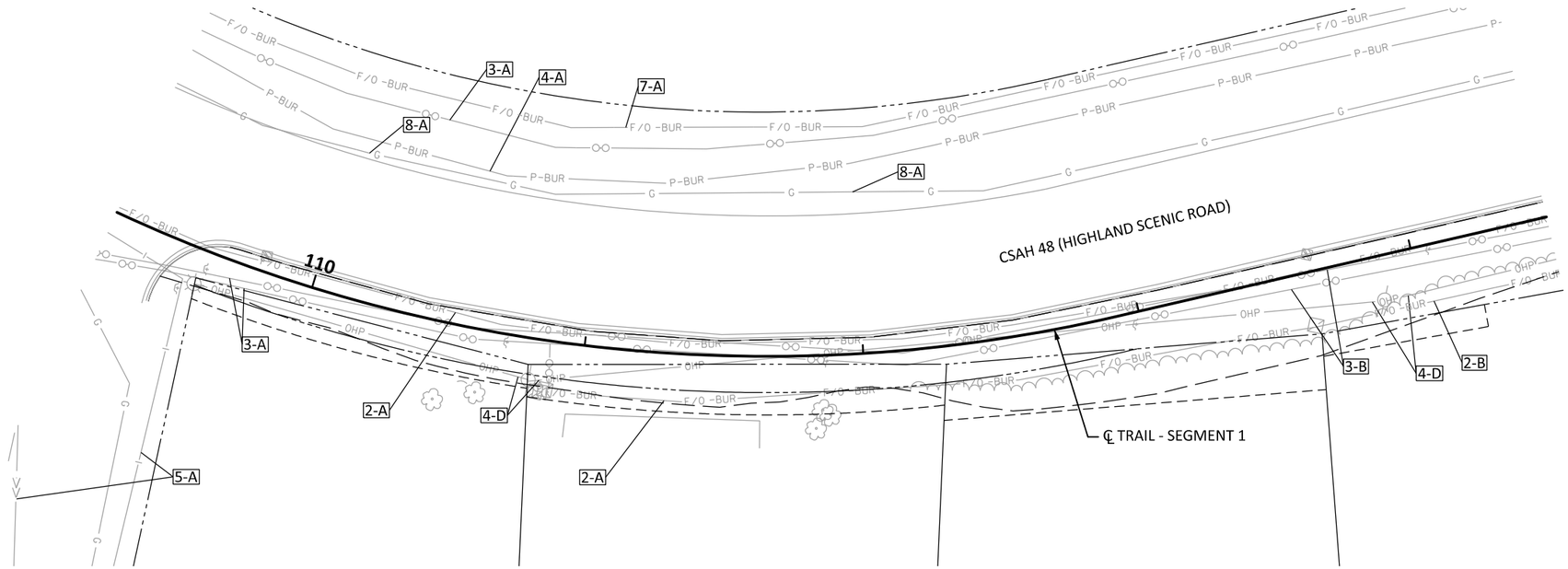
wsb

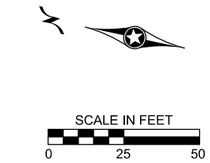
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

INPLACE TOPOGRAPHY AND UTILITIES PLAN

SP 230-090-003 / SP 018-070-024
Sheet No. 41 of 100 Sheets

DATE: 4/20/2026 TIME: 9:48:59 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-175top-001





LEGEND

- BURIED COPPER
- BURIED FIBER
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- OVERHEAD POWER
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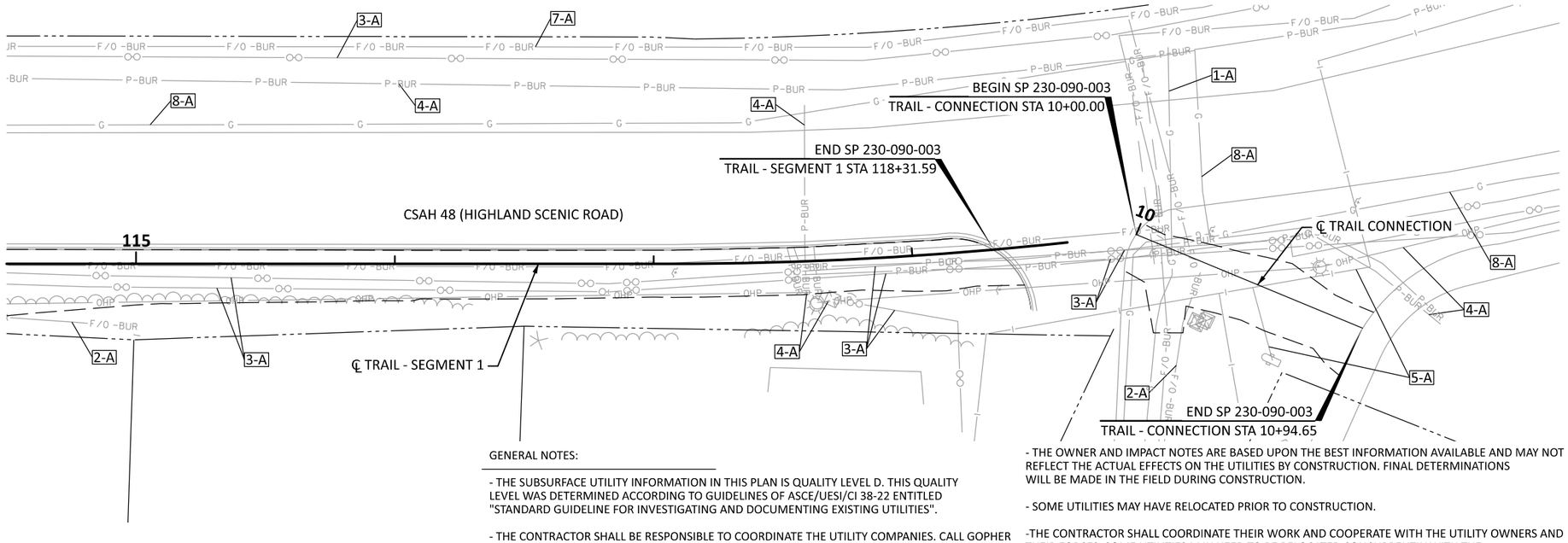

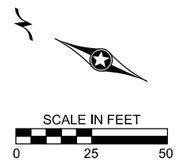

UTILITY NOTES

1-A UTILITY CONFLICT AREA (OWNER - IMPACT)

OWNERSHIP:
(1) CENTERPOINT ENERGY MN GAS, (2) CENTURYLINK (LUMEN),
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(4) CROW WING COOP POWER & LIGHT COMPANY,
(5) CITY OF BAXTER, (6) MNDOT,
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DATE: 4/20/2026 TIME: 9:49:00 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-175top-001

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

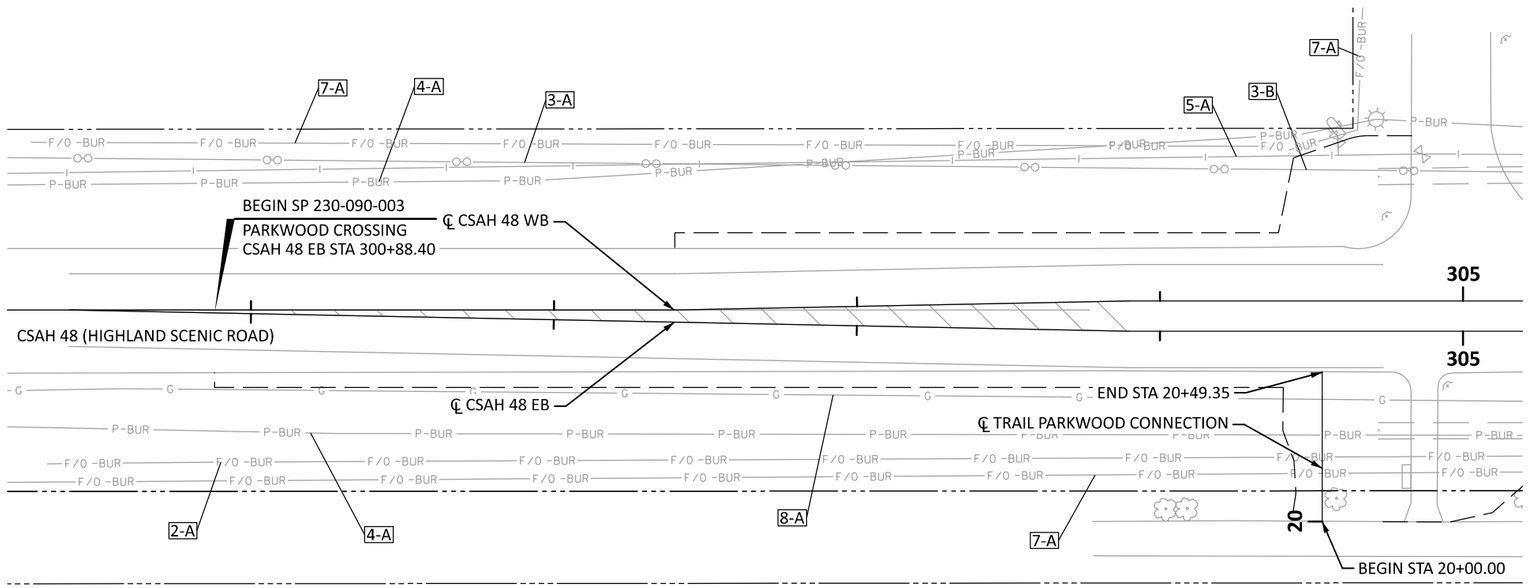
wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

INPLACE TOPOGRAPHY AND UTILITIES PLAN

SP 230-090-003 / SP 018-070-024

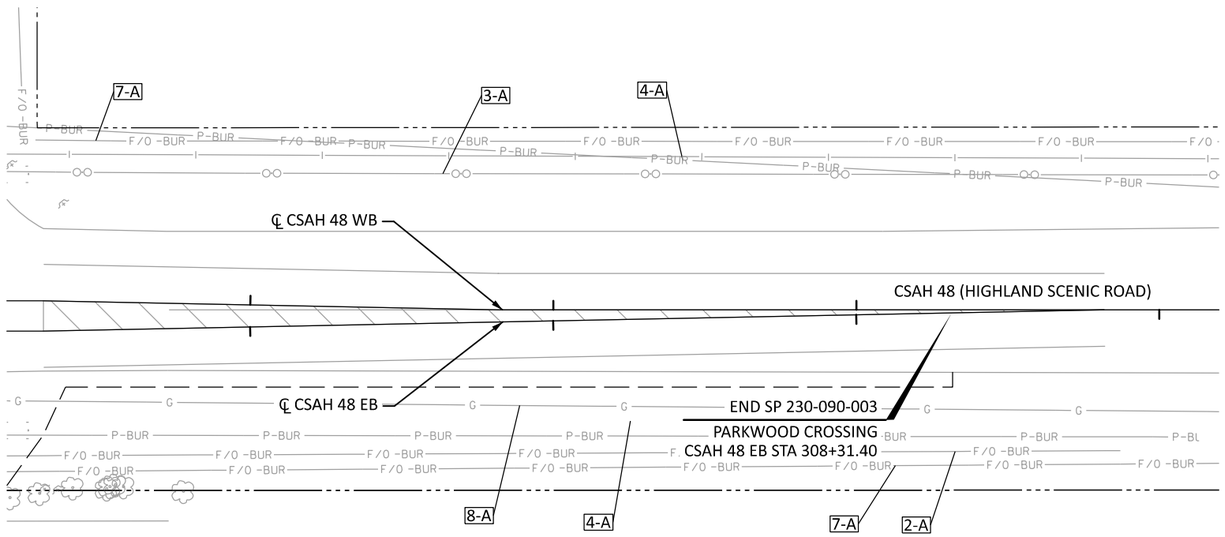
Sheet No. 42 of 100 Sheets



SCALE IN FEET
0 25 50

LEGEND

- TV-BUR — BURIED COPPER
- F/O -BUR — BURIED FIBER
- BURIED COMM. LINE
- OHP — OVERHEAD POWER
- P-BUR — BURIED POWER
- G — BURIED GAS
- PED BOX / HANDHOLE
- POWER POLE
- LIGHT POST
- M — MANHOLE
- WATERMAIN
- SANITARY SEWER
- STORM SEWER
- CONSTRUCTION LIMITS
- EXISTING R/W
- TEMPORARY EASEMENT
- PERMANENT EASEMENT



SCALE IN FEET
0 25 50

UTILITY NOTES

1-A — UTILITY CONFLICT AREA (OWNER - IMPACT)

OWNERSHIP:
(1) CENTERPOINT ENERGY MN GAS, (2) CENTURYLINK (LUMEN),
(3) CHARTER SPECTRUM MID-AMERICA LLC,
(4) CROW WING COOP POWER & LIGHT COMPANY,
(5) CITY OF BAXTER, (6) MNDOT,
(7) CONSOLIDATED TELEPHONE COMPANY, (8) XCEL ENERGY

IMPACTS NOTES ON PLAN SHEETS:
(A) LEAVE AS IS, (B) ADJUST -VERTICAL LOWER
(C) ADJUST -VERTICAL RAISE,(D) RELOCATE,
(E) ADJUST -HORIZONTALLY, (F) REMOVE,
(G) LEAVE IN-PLACE / OUT-OF-SERVICE

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City of Baxter
CSAH 48 Trail
Baxter, Minnesota

INPLACE TOPOGRAPHY AND UTILITIES PLAN

SP 230-090-003 / SP 018-070-024
Sheet No. 43 of 100 Sheets

DATE: 4/20/2026 TIME: 9:49:01 AM
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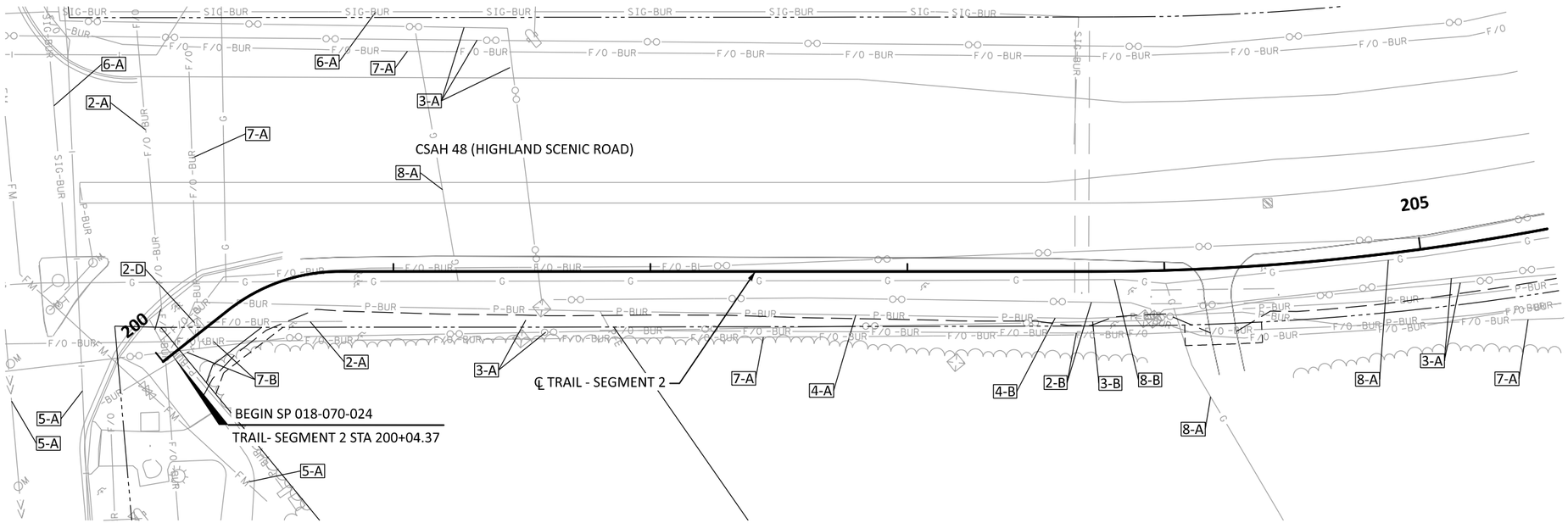

SCALE IN FEET
0 25 50

LEGEND

- TV-BUR — BURIED COPPER
- F/O -BUR — BURIED FIBER
- BURIED COMM. LINE
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- LIGHT POST
- M — MANHOLE
- WATERMAIN
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- STORM SEWER
- CONSTRUCTION LIMITS
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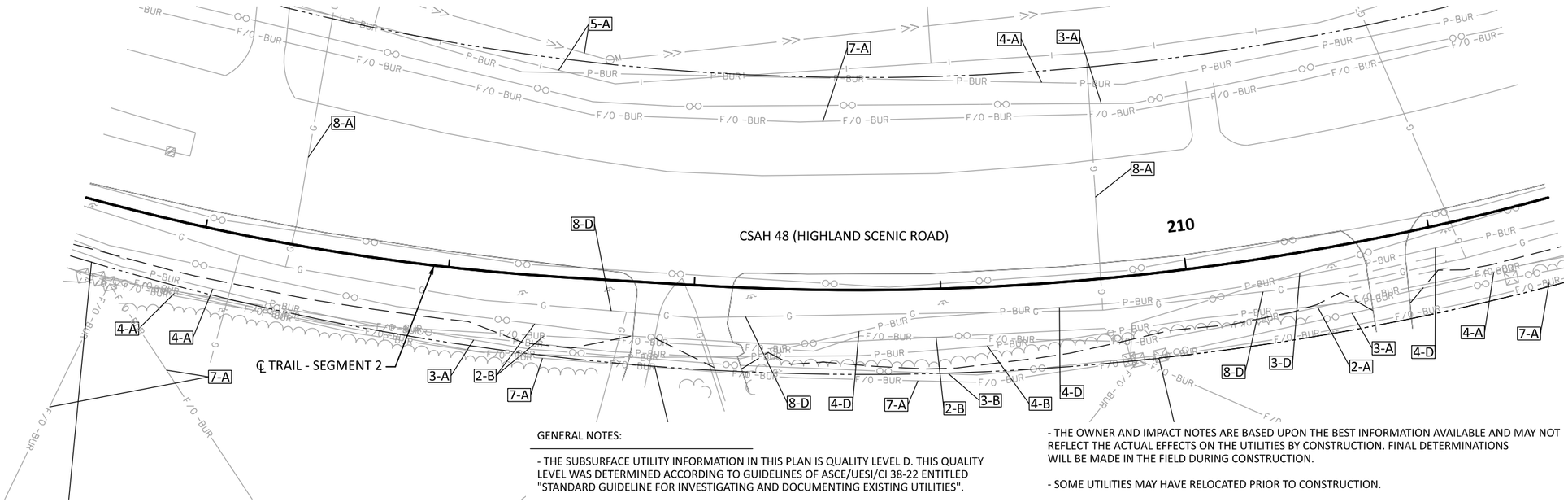

SCALE IN FEET
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UTILITY NOTES

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City of Baxter
CSAH 48 Trail
Baxter, Minnesota

INPLACE TOPOGRAPHY AND UTILITIES PLAN

SP 230-090-003 / SP 018-070-024
Sheet No. 44 of 100 Sheets

DATE: 4/20/2026 TIME: 9:49:02 AM
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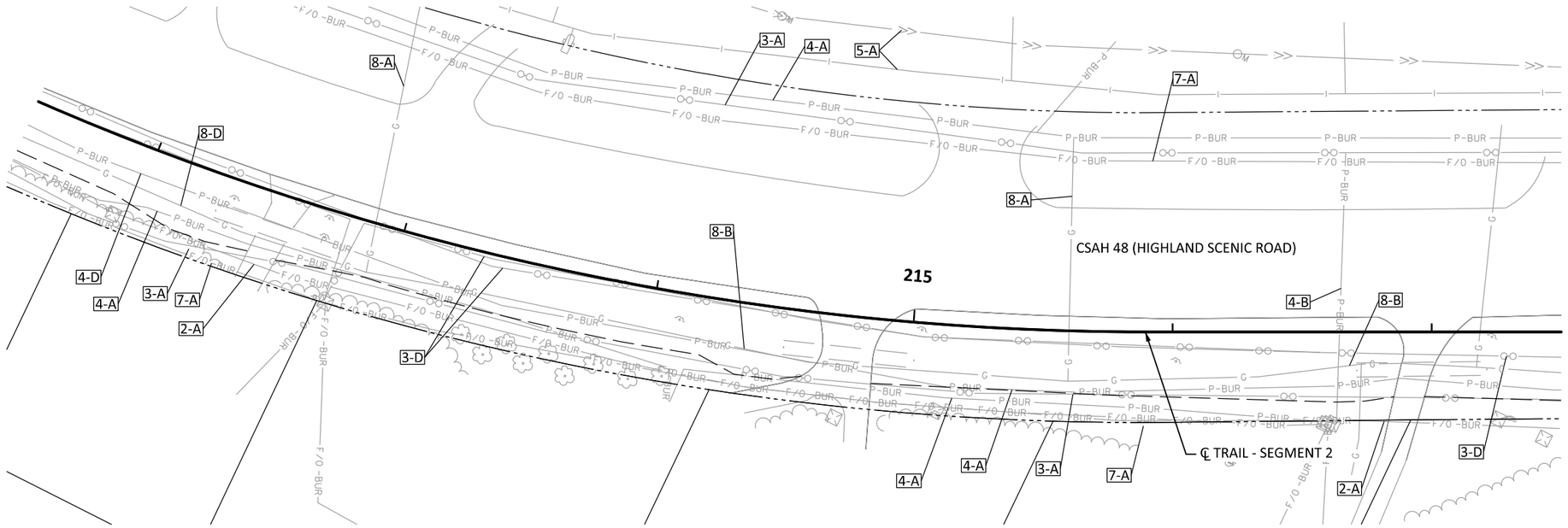

N

SCALE IN FEET
0 25 50

LEGEND

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- F/O -BUR — BURIED FIBER
- BURIED COMM. LINE
- OHP — OVERHEAD POWER
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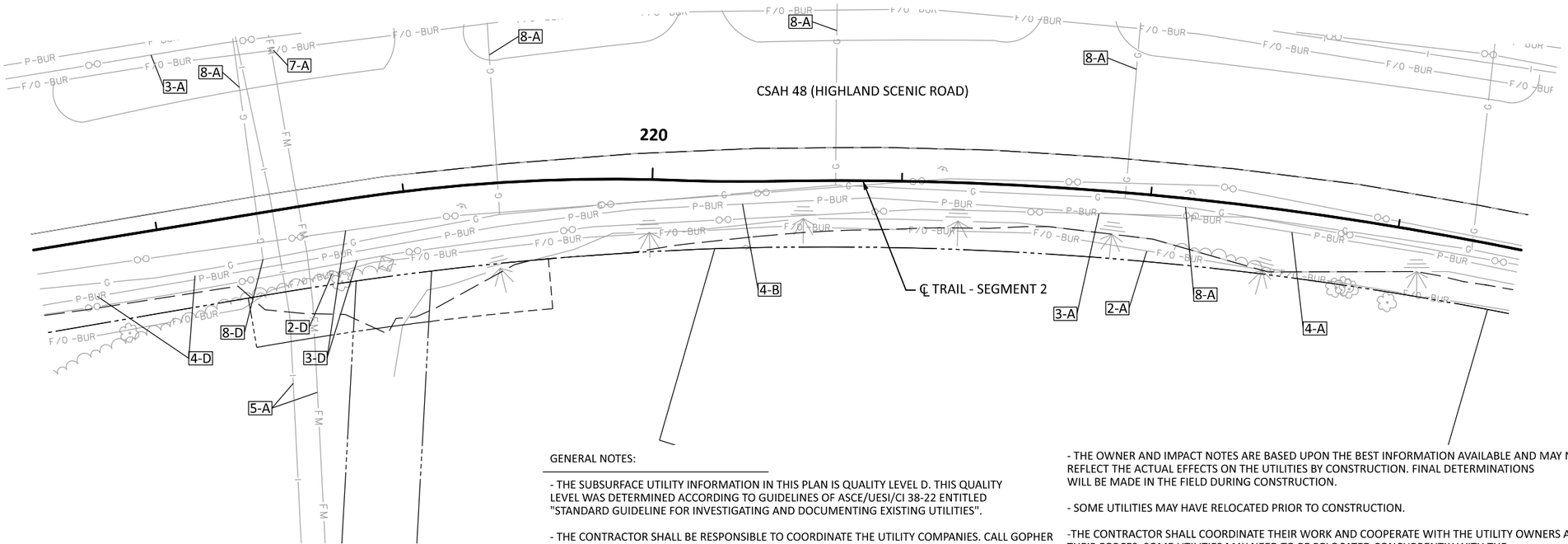

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SCALE IN FEET
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City of Baxter
CSAH 48 Trail
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INPLACE TOPOGRAPHY AND UTILITIES PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 45 of 100 Sheets

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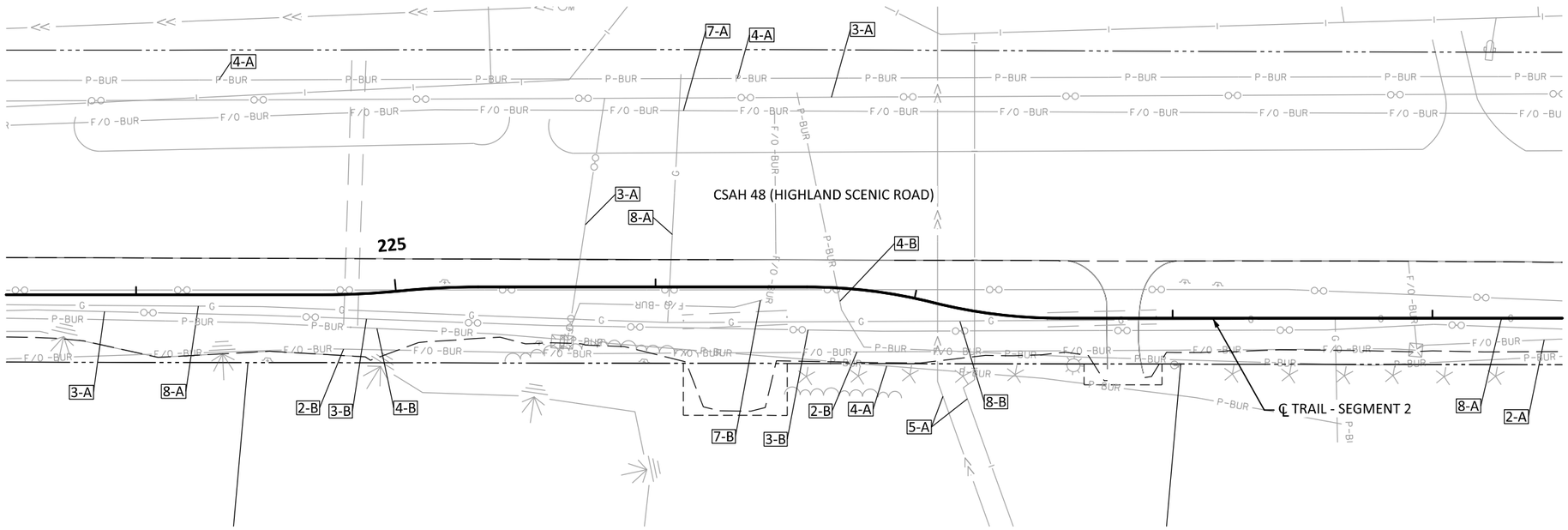

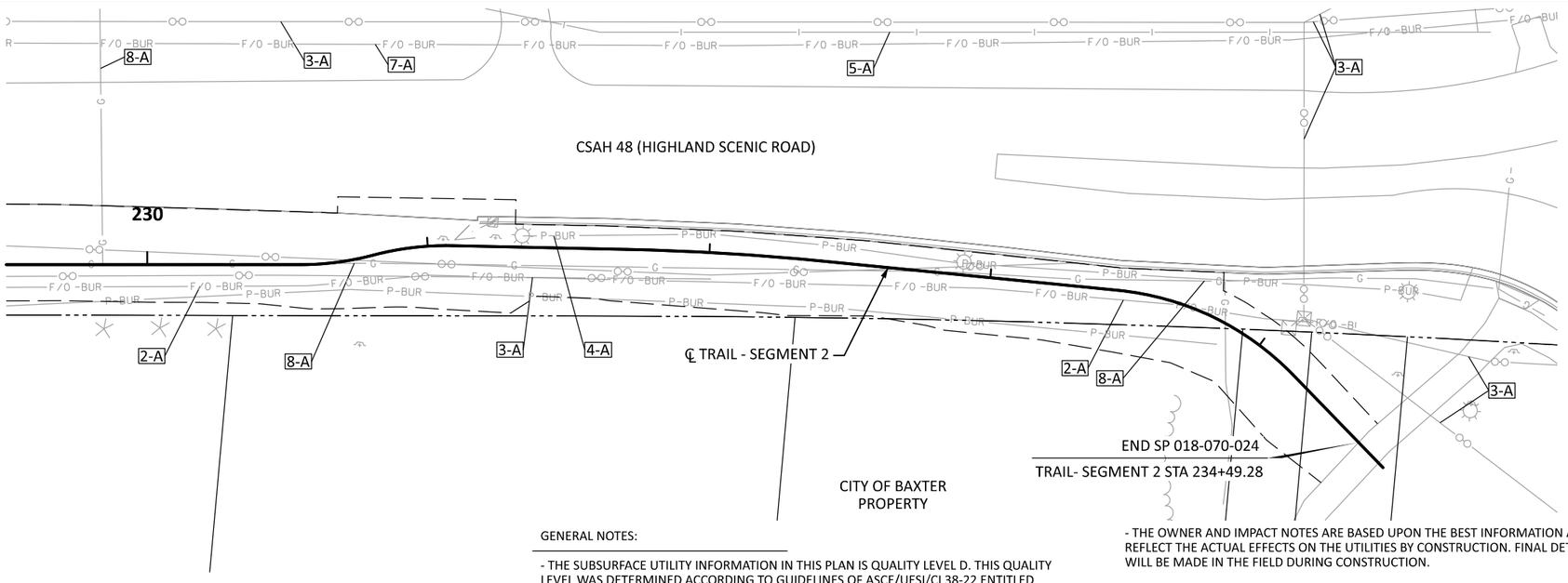

N

SCALE IN FEET
0 25 50

LEGEND

- BURIED COPPER (TV-BUR)
- BURIED FIBER (F/O -BUR)
- BURIED COMM. LINE
- OVERHEAD POWER (OHP)
- BURIED POWER (P-BUR)
- BURIED GAS (G)
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- POWER POLE
- LIGHT POST
- MANHOLE (M)
- WATERMAIN
- SANITARY SEWER
- STORM SEWER
- CONSTRUCTION LIMITS
- EXISTING R/W
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UTILITY NOTES

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INPLACE TOPOGRAPHY AND UTILITIES PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 46 of 100 Sheets

DATE: 4/20/2026 TIME: 9:49:03 AM
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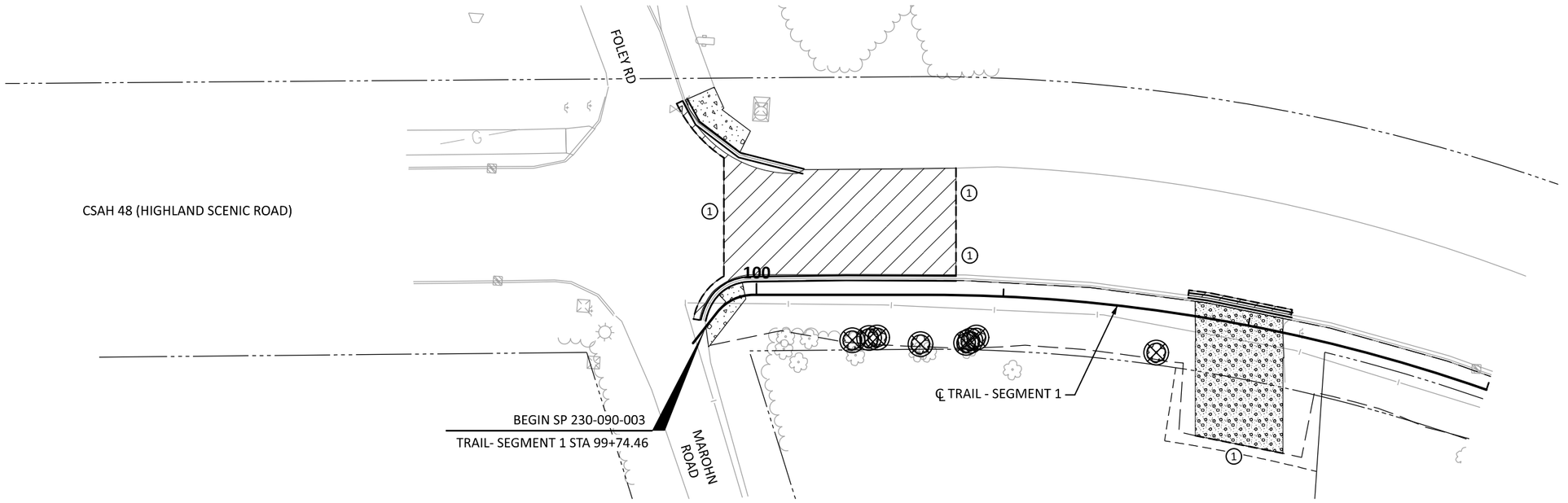

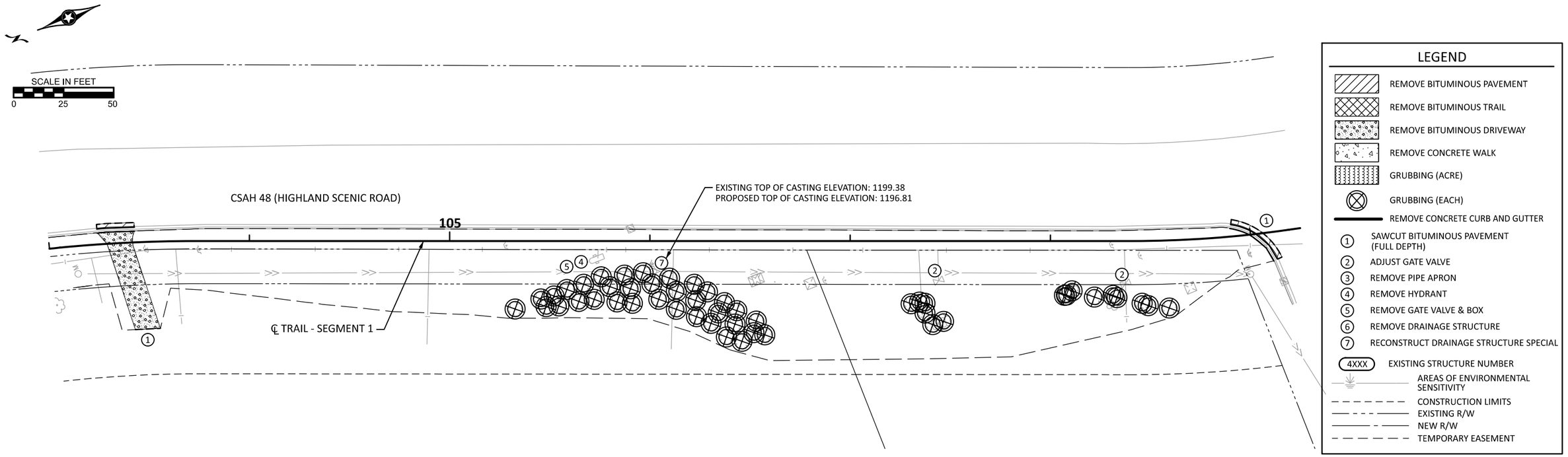

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FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-180rem-001

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City of Baxter
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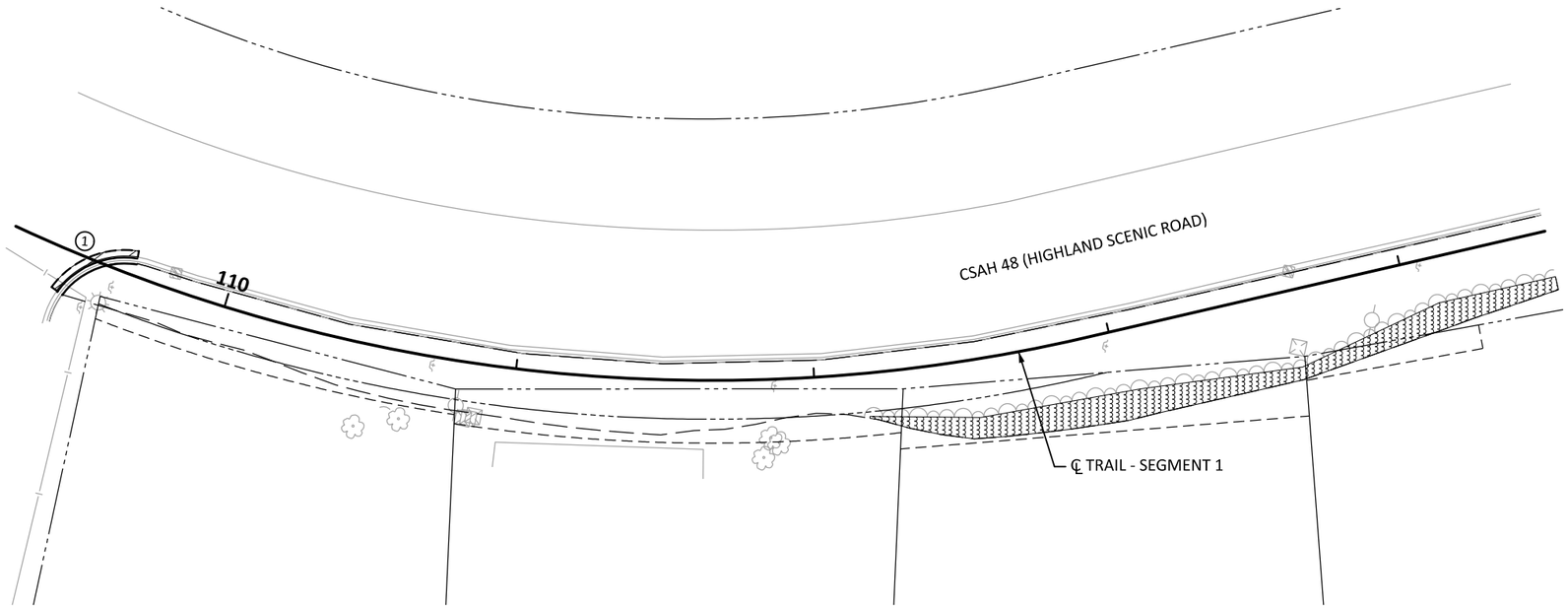
REMOVAL PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 47 of 100 Sheets



SCALE IN FEET
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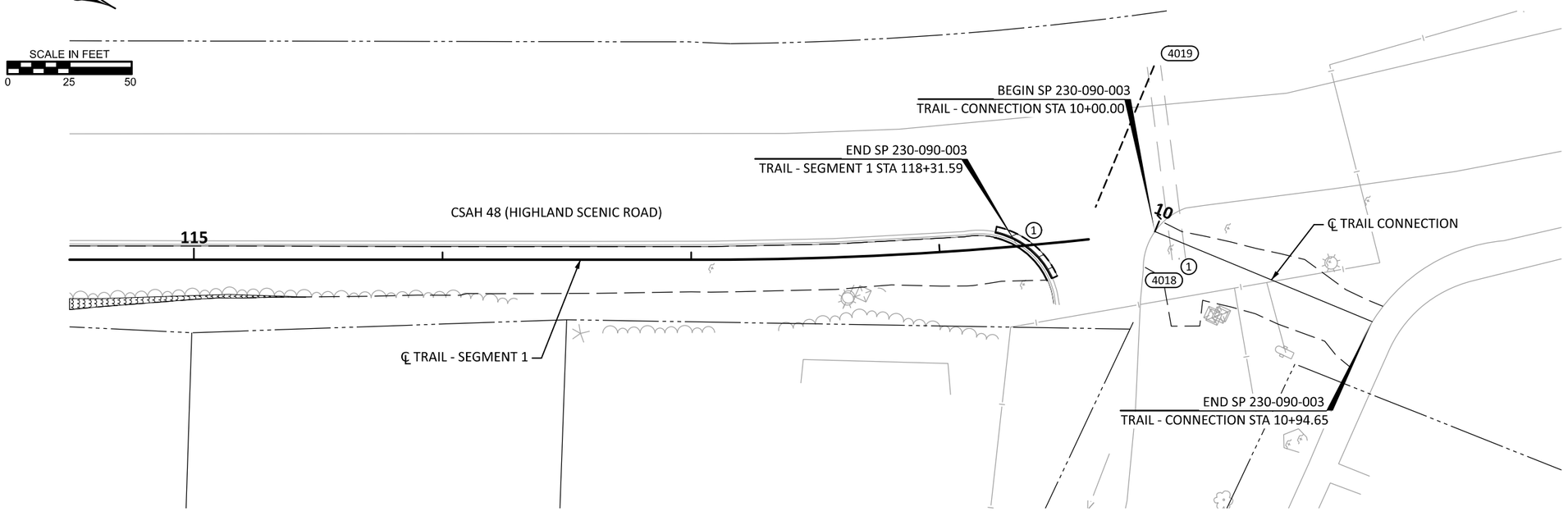

LEGEND

- REMOVE BITUMINOUS PAVEMENT
- REMOVE BITUMINOUS TRAIL
- REMOVE BITUMINOUS DRIVEWAY
- REMOVE CONCRETE WALK
- GRUBBING (ACRE)
- GRUBBING (EACH)
- REMOVE CONCRETE CURB AND GUTTER
- (1) SAWCUT BITUMINOUS PAVEMENT (FULL DEPTH)
- (2) ADJUST GATE VALVE
- (3) REMOVE PIPE APRON
- (4) REMOVE HYDRANT
- (5) REMOVE GATE VALVE & BOX
- (6) REMOVE DRAINAGE STRUCTURE
- (7) RECONSTRUCT DRAINAGE STRUCTURE SPECIAL
- (4XXX) EXISTING STRUCTURE NUMBER
- AREAS OF ENVIRONMENTAL SENSITIVITY
- CONSTRUCTION LIMITS
- EXISTING R/W
- NEW R/W
- TEMPORARY EASEMENT

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REMOVAL PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 48 of 100 Sheets

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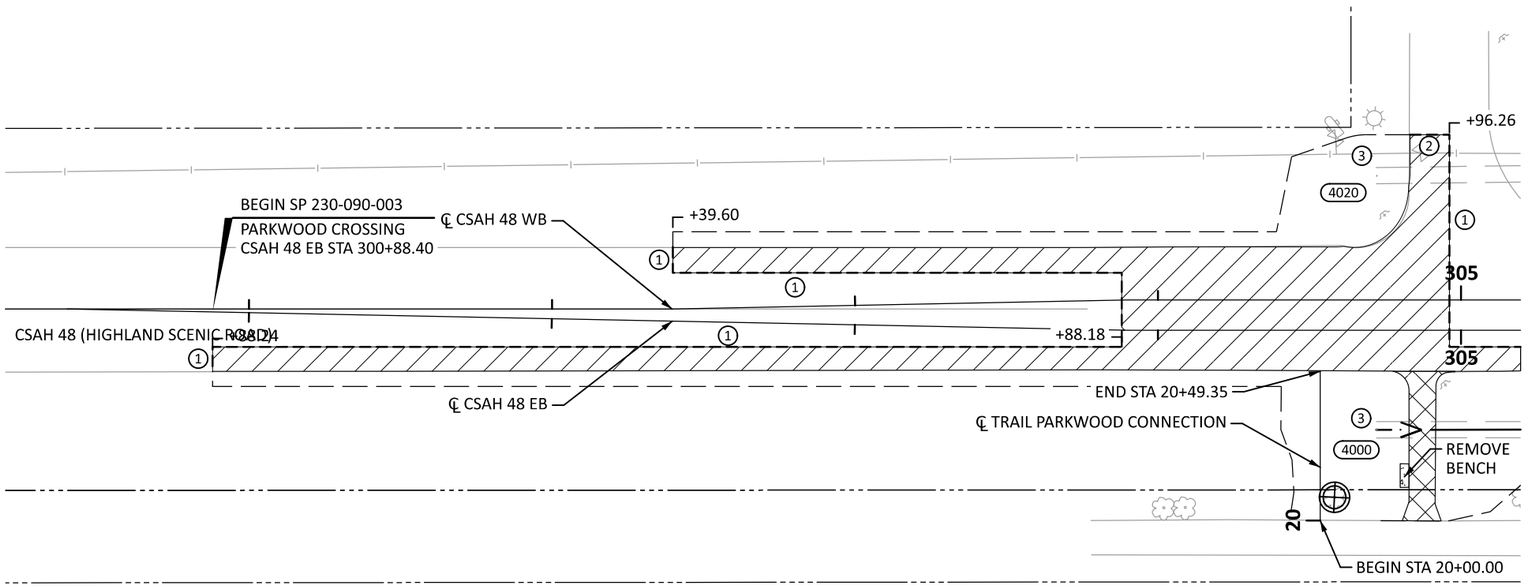

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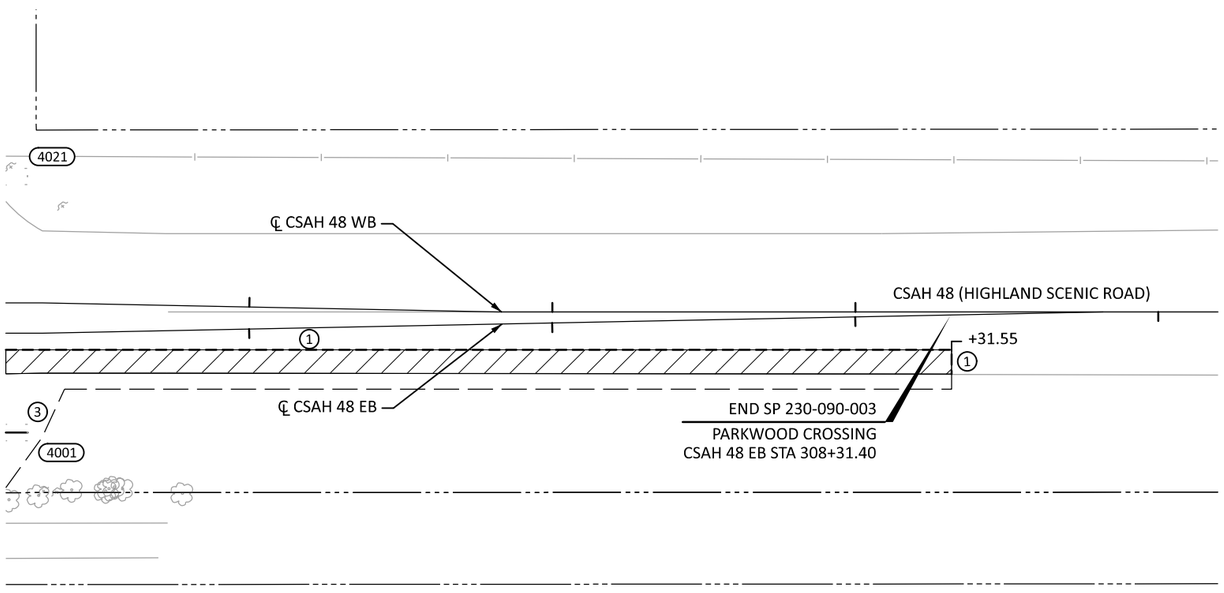

SCALE IN FEET
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LEGEND

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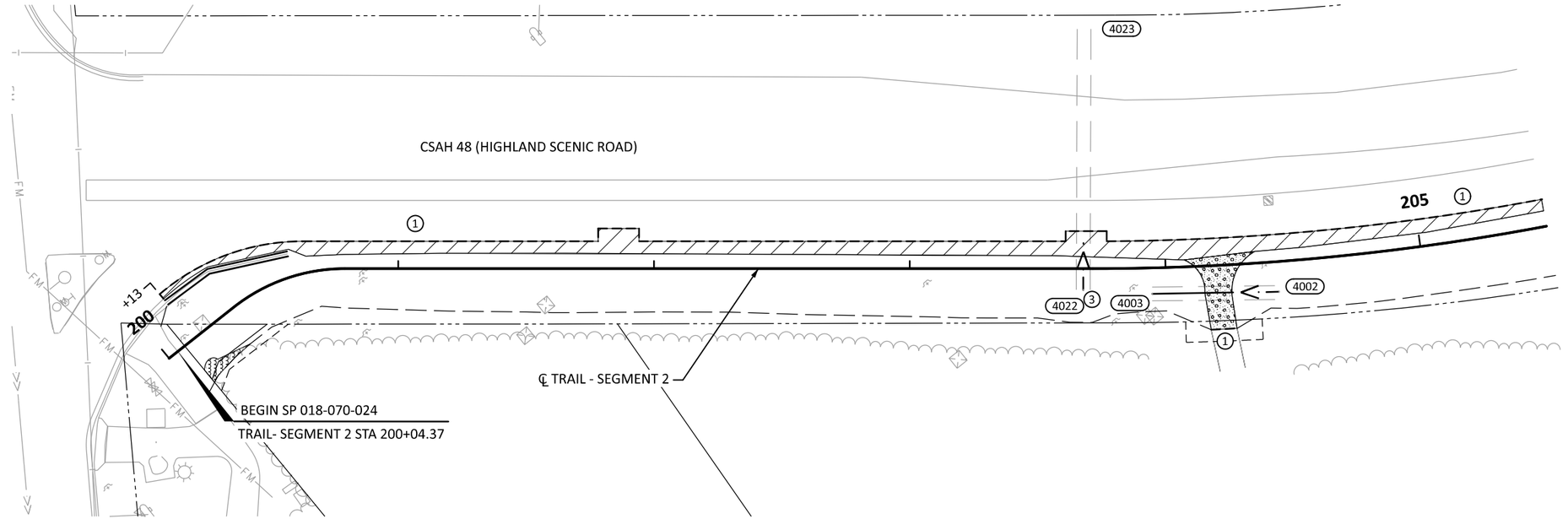

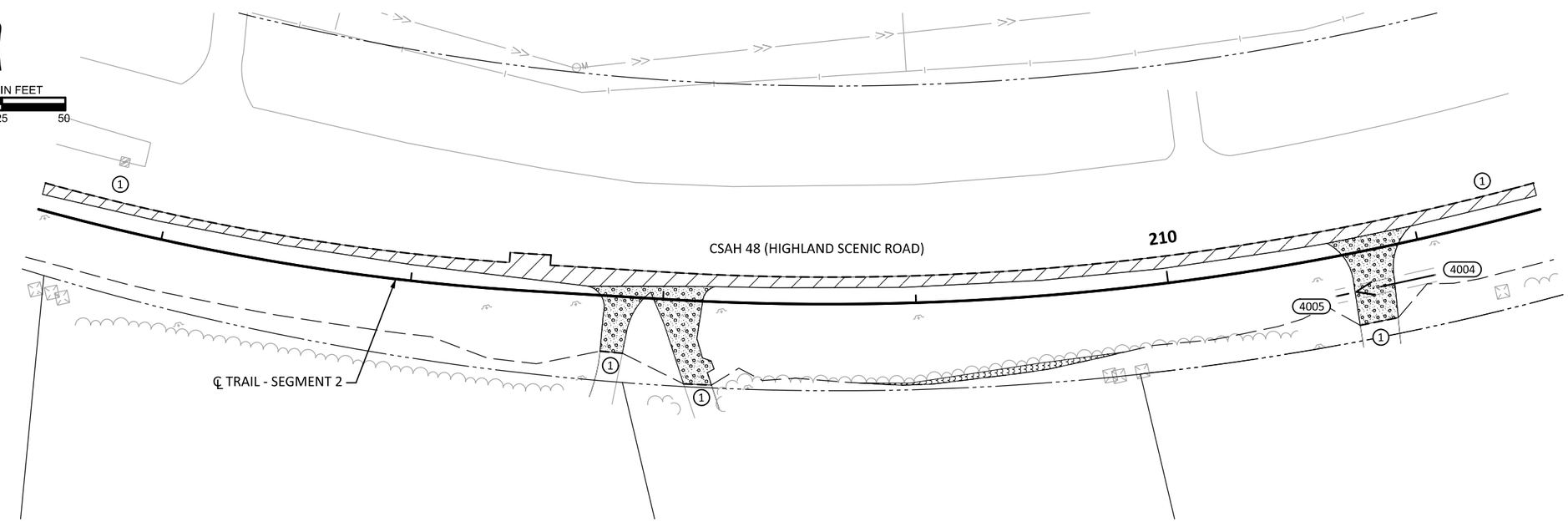

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- GRUBBING (EACH)
- REMOVE CONCRETE CURB AND GUTTER
- (1) SAWCUT BITUMINOUS PAVEMENT (FULL DEPTH)
- (2) ADJUST GATE VALVE
- (3) REMOVE PIPE APRON
- (4) REMOVE HYDRANT
- (5) REMOVE GATE VALVE & BOX
- (6) REMOVE DRAINAGE STRUCTURE
- (7) RECONSTRUCT DRAINAGE STRUCTURE SPECIAL
- (4XXX) EXISTING STRUCTURE NUMBER
- AREAS OF ENVIRONMENTAL SENSITIVITY
- CONSTRUCTION LIMITS
- EXISTING R/W
- NEW R/W
- TEMPORARY EASEMENT

DRAWN BY: AS
DESIGNED BY: MKV
CHECKED BY: JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

REMOVAL PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 50 of 100 Sheets

DATE: 4/20/2026 TIME: 9:49:18 AM
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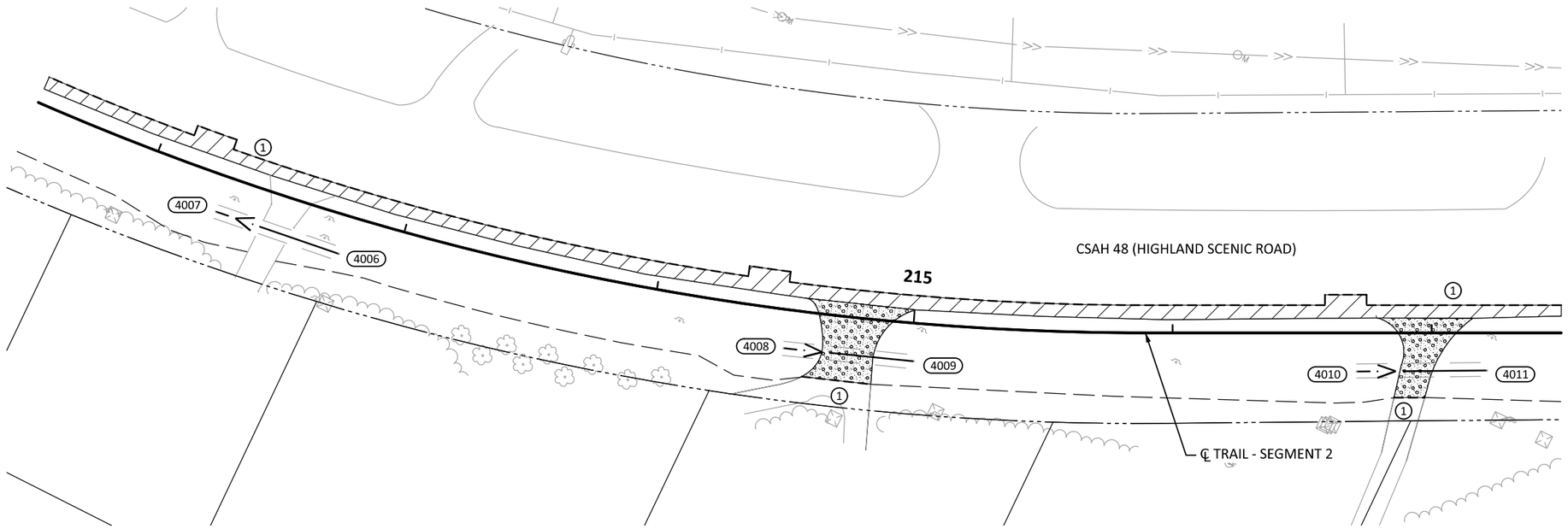

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SCALE IN FEET
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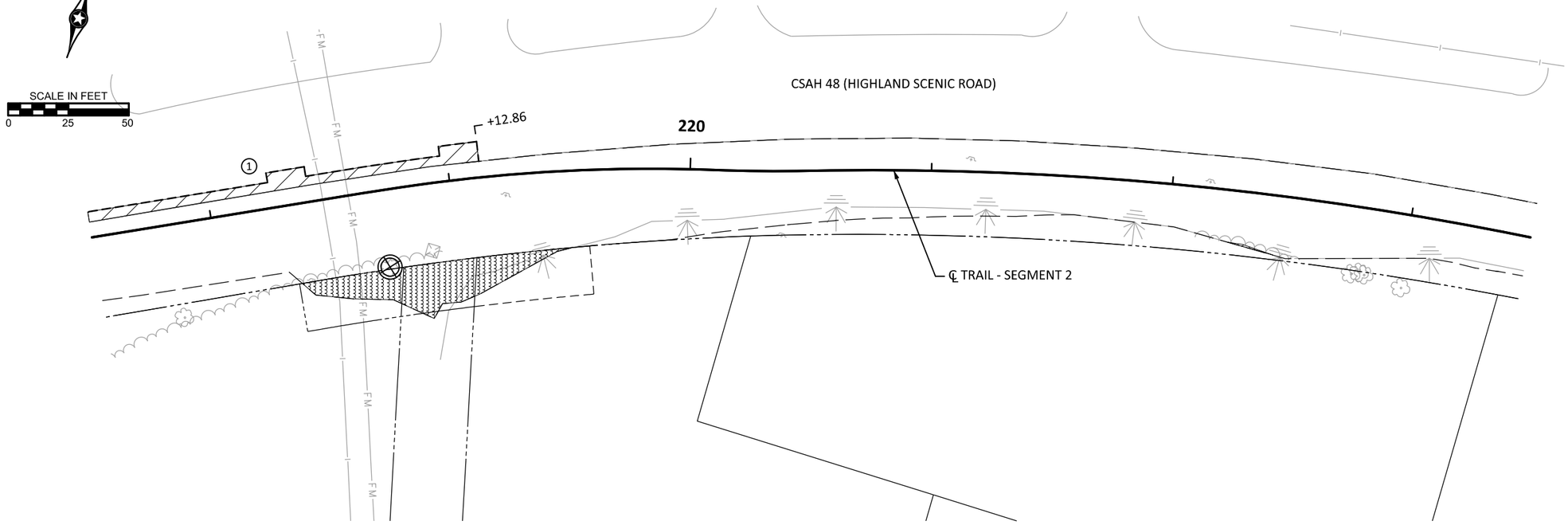

N

SCALE IN FEET
0 25 50

LEGEND

- REMOVE BITUMINOUS PAVEMENT
- REMOVE BITUMINOUS TRAIL
- REMOVE BITUMINOUS DRIVEWAY
- REMOVE CONCRETE WALK
- GRUBBING (ACRE)
- GRUBBING (EACH)
- REMOVE CONCRETE CURB AND GUTTER
- (1) SAWCUT BITUMINOUS PAVEMENT (FULL DEPTH)
- (2) ADJUST GATE VALVE
- (3) REMOVE PIPE APRON
- (4) REMOVE HYDRANT
- (5) REMOVE GATE VALVE & BOX
- (6) REMOVE DRAINAGE STRUCTURE
- (7) RECONSTRUCT DRAINAGE STRUCTURE SPECIAL
- (4XXX) EXISTING STRUCTURE NUMBER
- AREAS OF ENVIRONMENTAL SENSITIVITY
- CONSTRUCTION LIMITS
- EXISTING R/W
- NEW R/W
- TEMPORARY EASEMENT

DRAWN BY: AS
DESIGNED BY: MKV
CHECKED BY: JK

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SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

REMOVAL PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 51 of 100 Sheets

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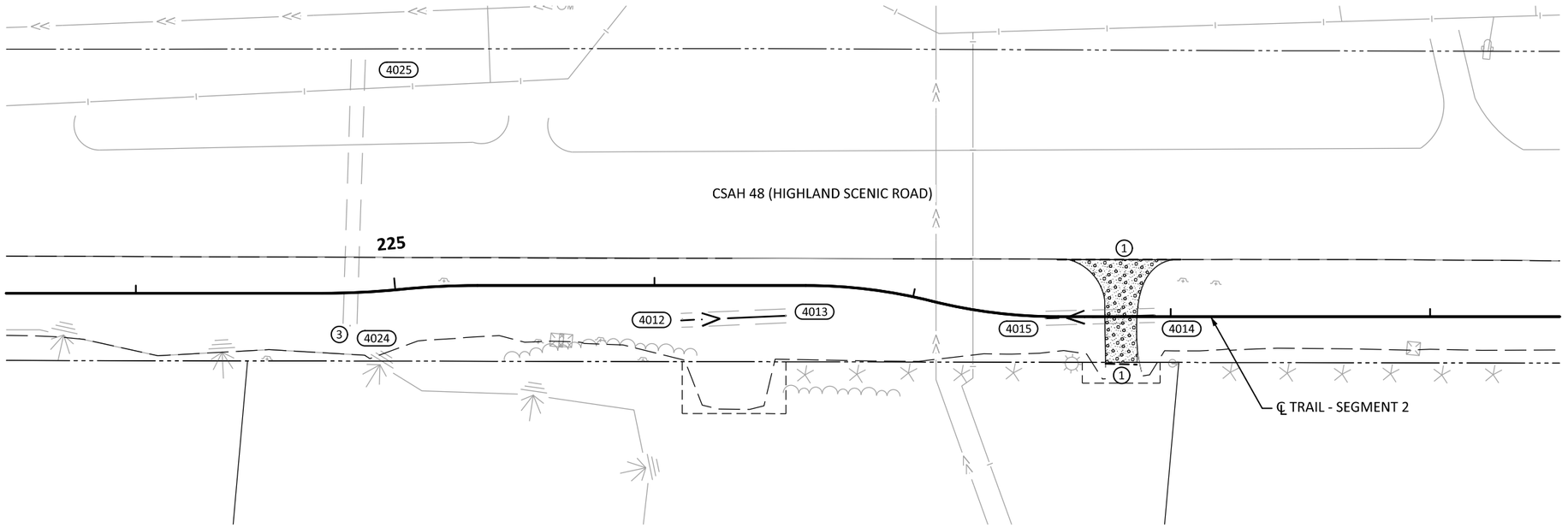

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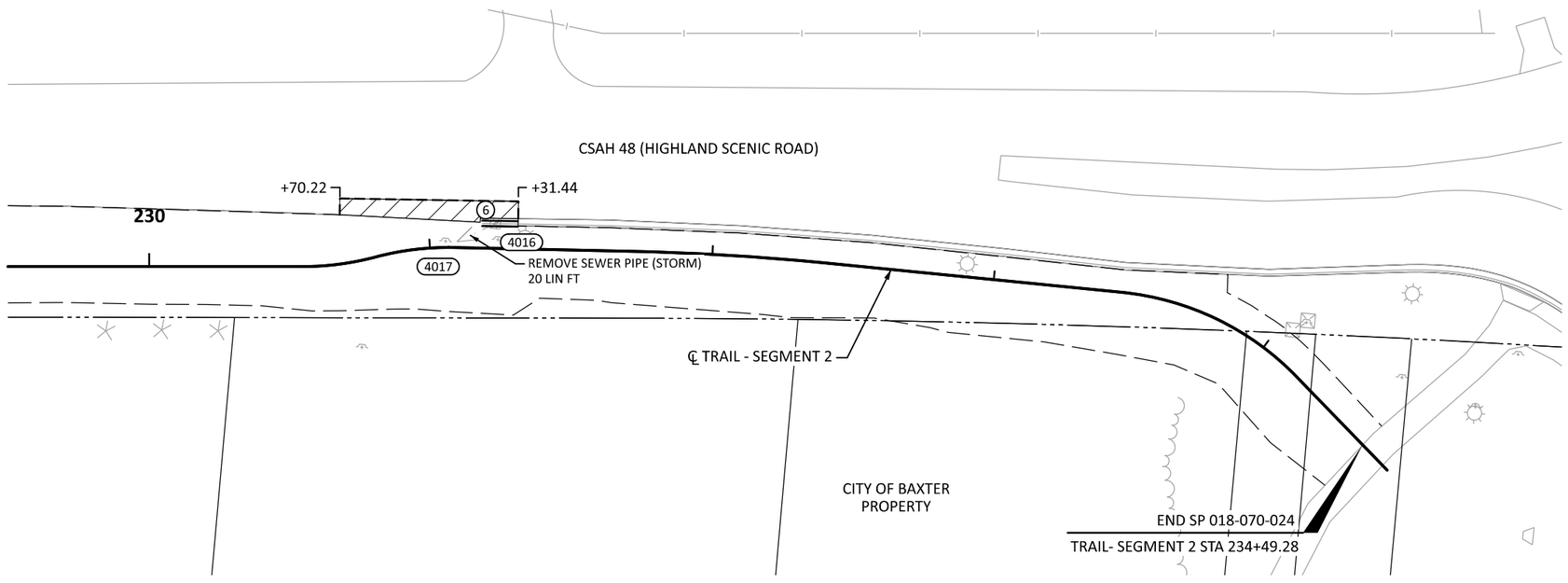

LEGEND

- REMOVE BITUMINOUS PAVEMENT
- REMOVE BITUMINOUS TRAIL
- REMOVE BITUMINOUS DRIVEWAY
- REMOVE CONCRETE WALK
- GRUBBING (ACRE)
- GRUBBING (EACH)
- REMOVE CONCRETE CURB AND GUTTER
- (1) SAWCUT BITUMINOUS PAVEMENT (FULL DEPTH)
- (2) ADJUST GATE VALVE
- (3) REMOVE PIPE APRON
- (4) REMOVE HYDRANT
- (5) REMOVE GATE VALVE & BOX
- (6) REMOVE DRAINAGE STRUCTURE
- (7) RECONSTRUCT DRAINAGE STRUCTURE SPECIAL
- (4XXX) EXISTING STRUCTURE NUMBER
- AREAS OF ENVIRONMENTAL SENSITIVITY
- CONSTRUCTION LIMITS
- EXISTING R/W
- NEW R/W
- TEMPORARY EASEMENT

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

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SIGNATURE: Marcus VanderBrug
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DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

REMOVAL PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 52 of 100 Sheets

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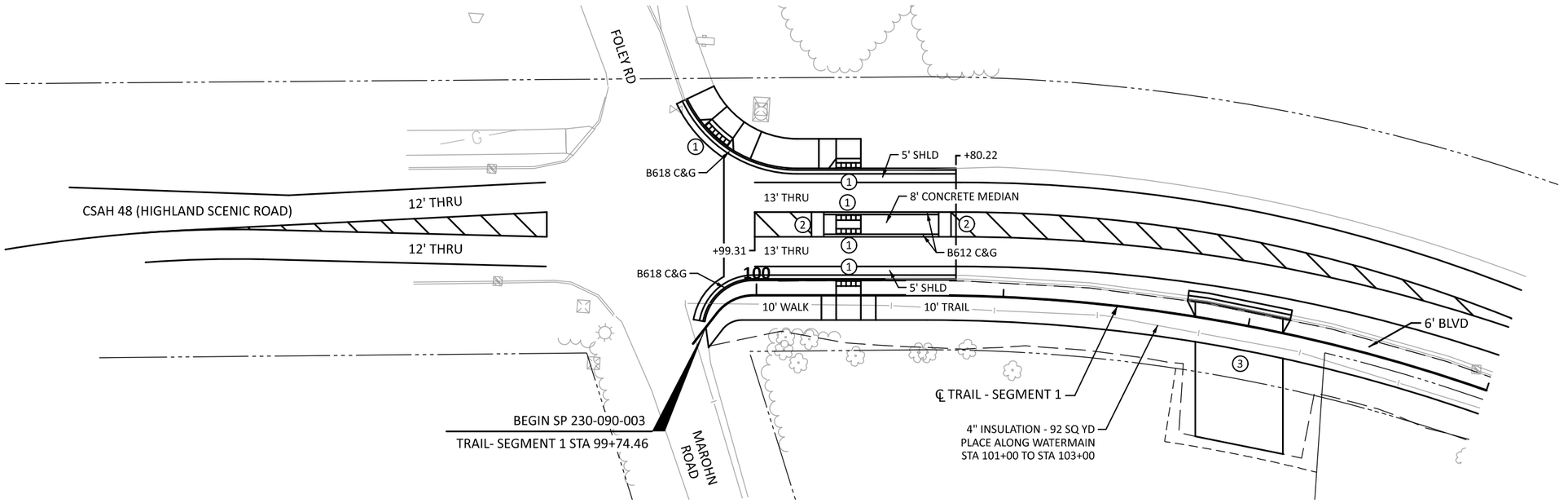

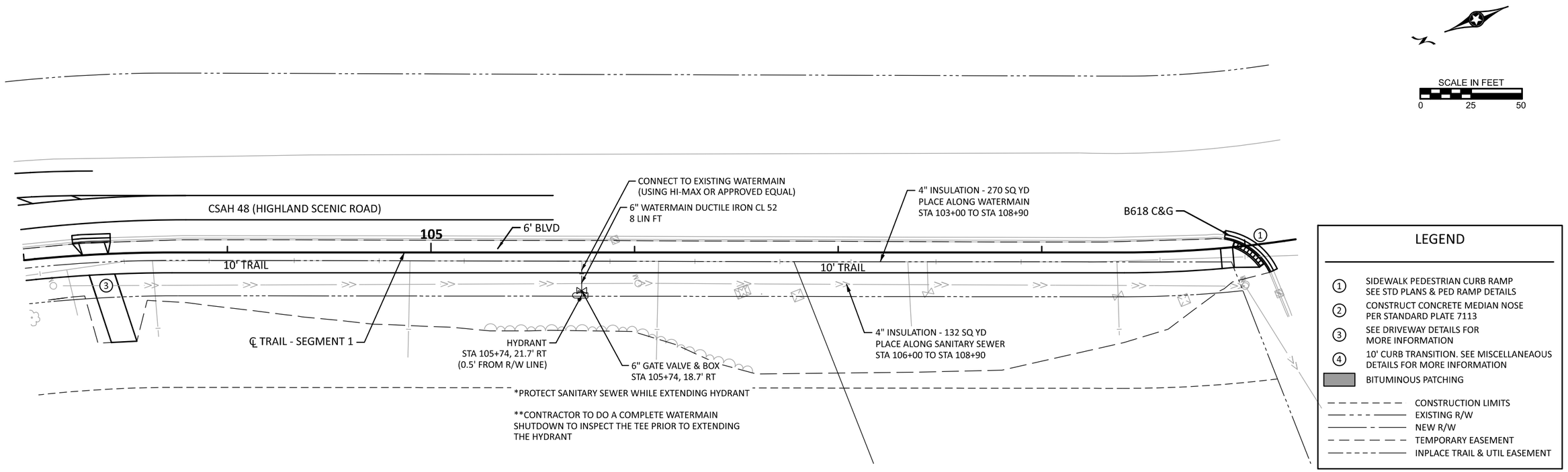

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DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

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SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

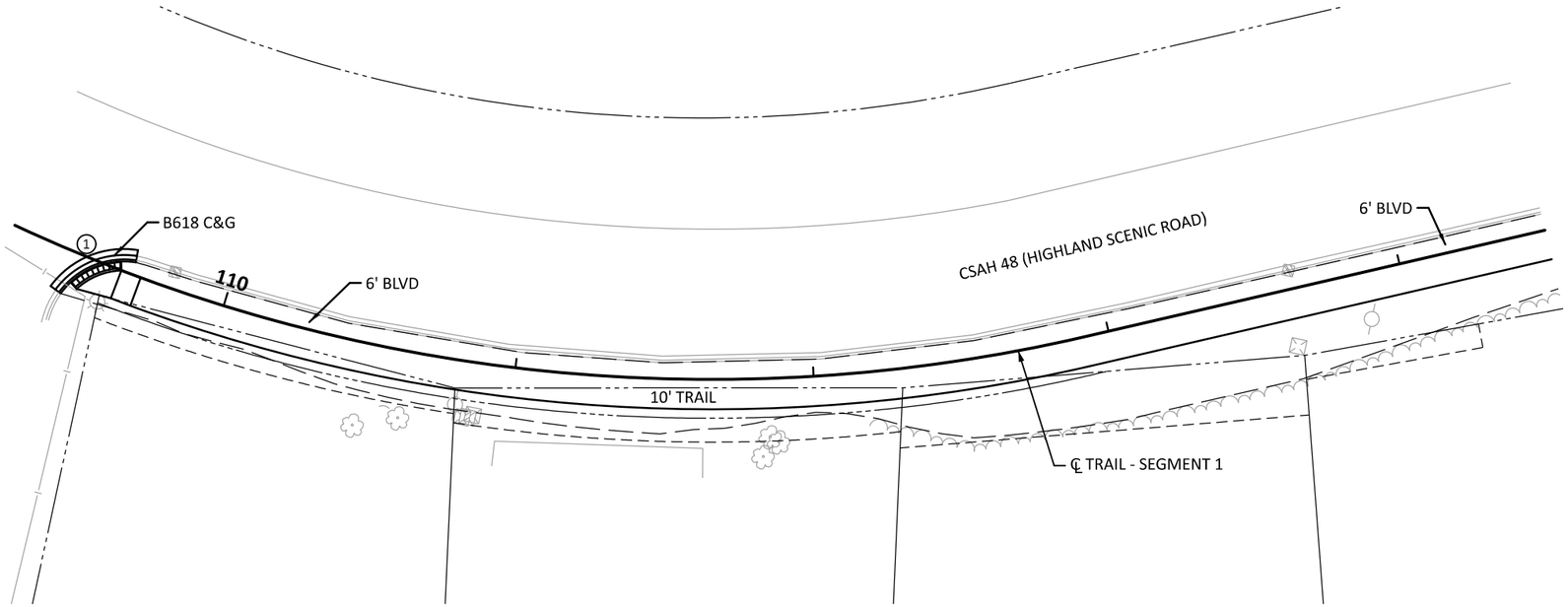
wsb

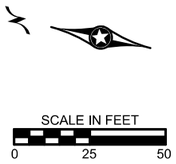
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

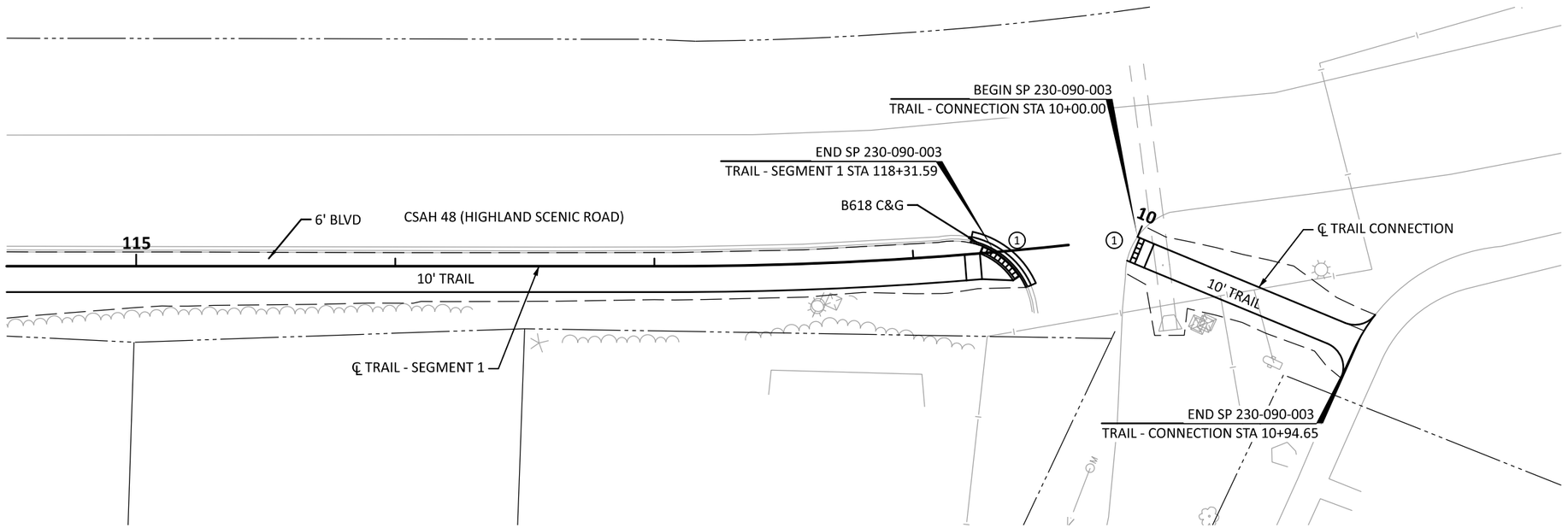
CONSTRUCTION PLAN

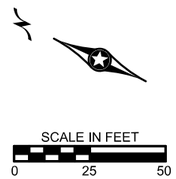
SP 230-090-003 / SP 018-070-024

Sheet No. 53 of 100 Sheets









LEGEND

- ① SIDEWALK PEDESTRIAN CURB RAMP SEE STD PLANS & PED RAMP DETAILS
- ② CONSTRUCT CONCRETE MEDIAN NOSE PER STANDARD PLATE 7113
- ③ SEE DRIVEWAY DETAILS FOR MORE INFORMATION
- ④ 10' CURB TRANSITION. SEE MISCELLANEAOUS DETAILS FOR MORE INFORMATION
- BITUMINOUS PATCHING
- CONSTRUCTION LIMITS
- EXISTING R/W
- NEW R/W
- TEMPORARY EASEMENT
- INPLACE TRAIL & UTIL EASEMENT

DRAWN BY: AS
DESIGNED BY: MKV
CHECKED BY: JK

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SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

CONSTRUCTION PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 54 of 100 Sheets

DATE: 4/20/2026 TIME: 9:49:33 AM
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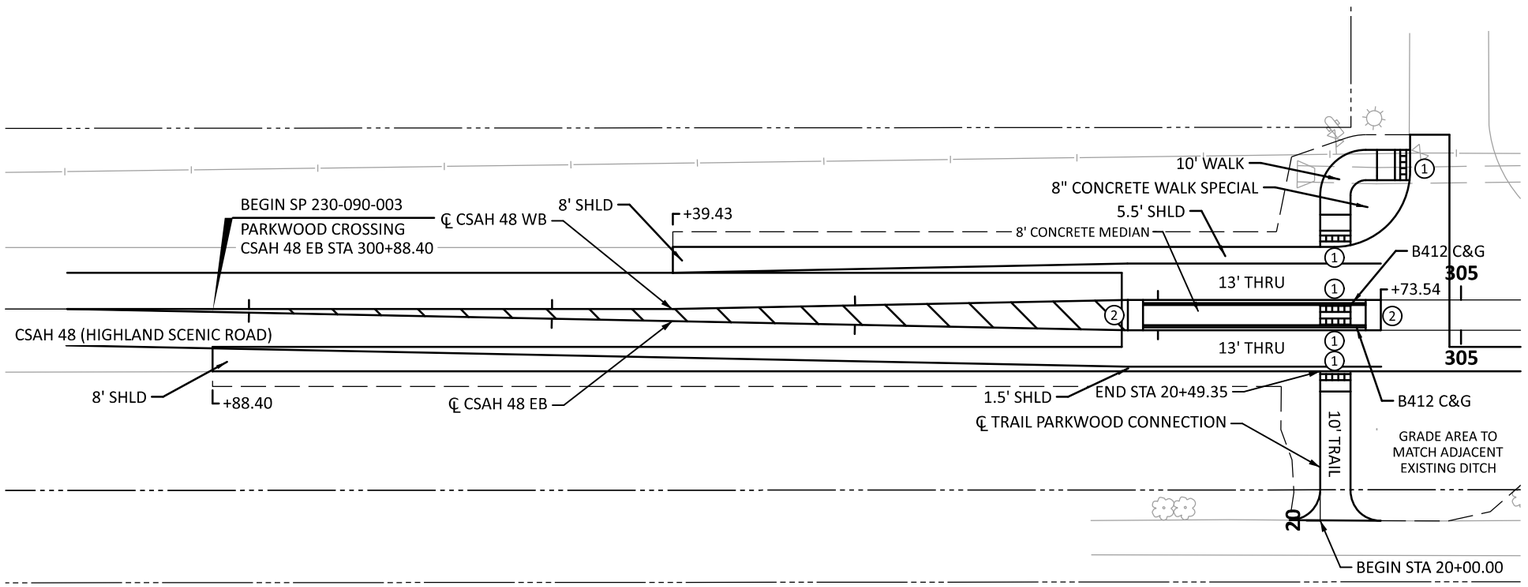

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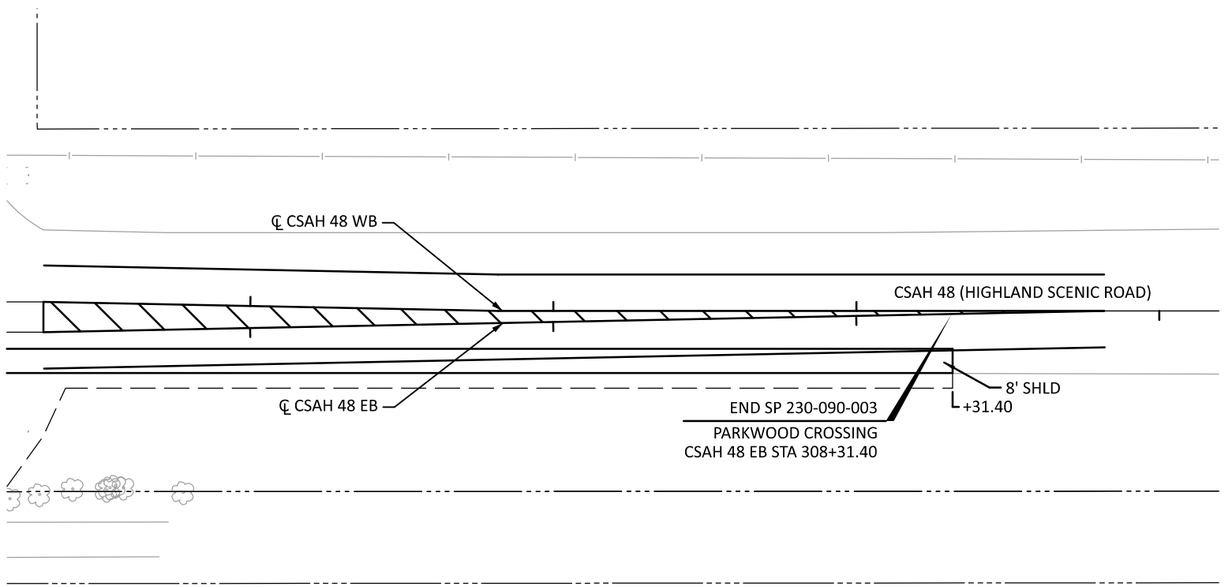


SCALE IN FEET
0 25 50

LEGEND

1. SIDEWALK PEDESTRIAN CURB RAMP SEE STD PLANS & PED RAMP DETAILS
2. CONSTRUCT CONCRETE MEDIAN NOSE PER STANDARD PLATE 7113
3. SEE DRIVEWAY DETAILS FOR MORE INFORMATION
4. 10' CURB TRANSITION. SEE MISCELLANEAOUS DETAILS FOR MORE INFORMATION

BITUMINOUS PATCHING

CONSTRUCTION LIMITS
EXISTING R/W
NEW R/W
TEMPORARY EASEMENT
INPLACE TRAIL & UTIL EASEMENT

DATE: 4/20/2026 TIME: 9:49:34 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-185cpp-001

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

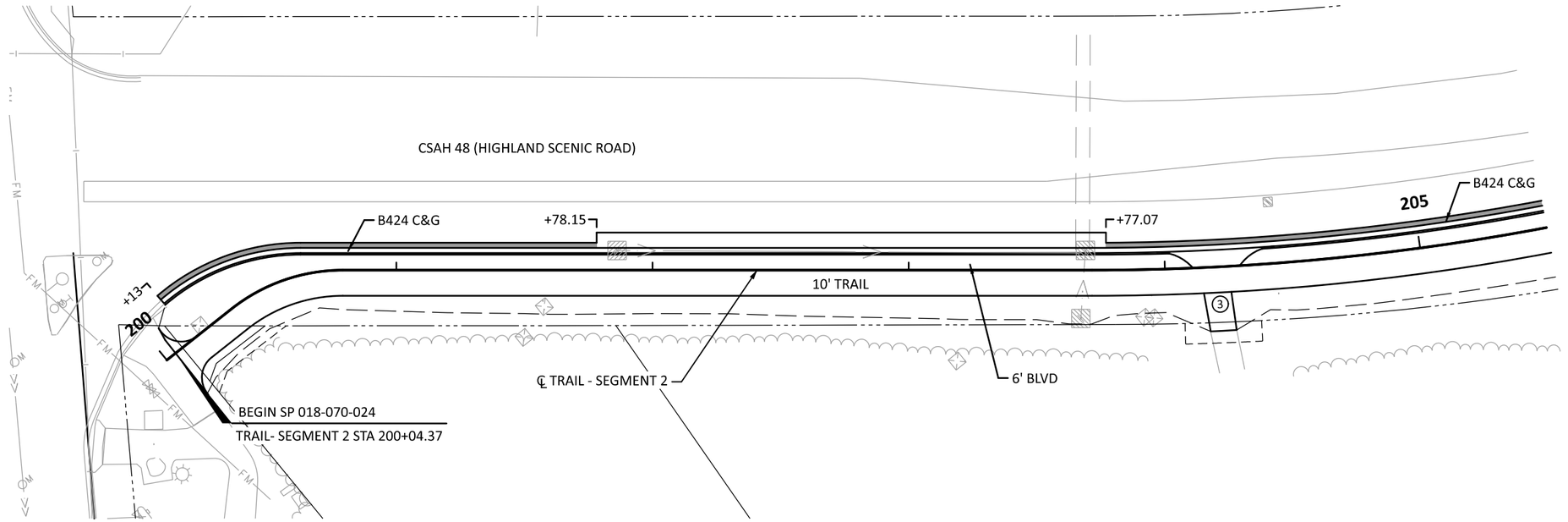
SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

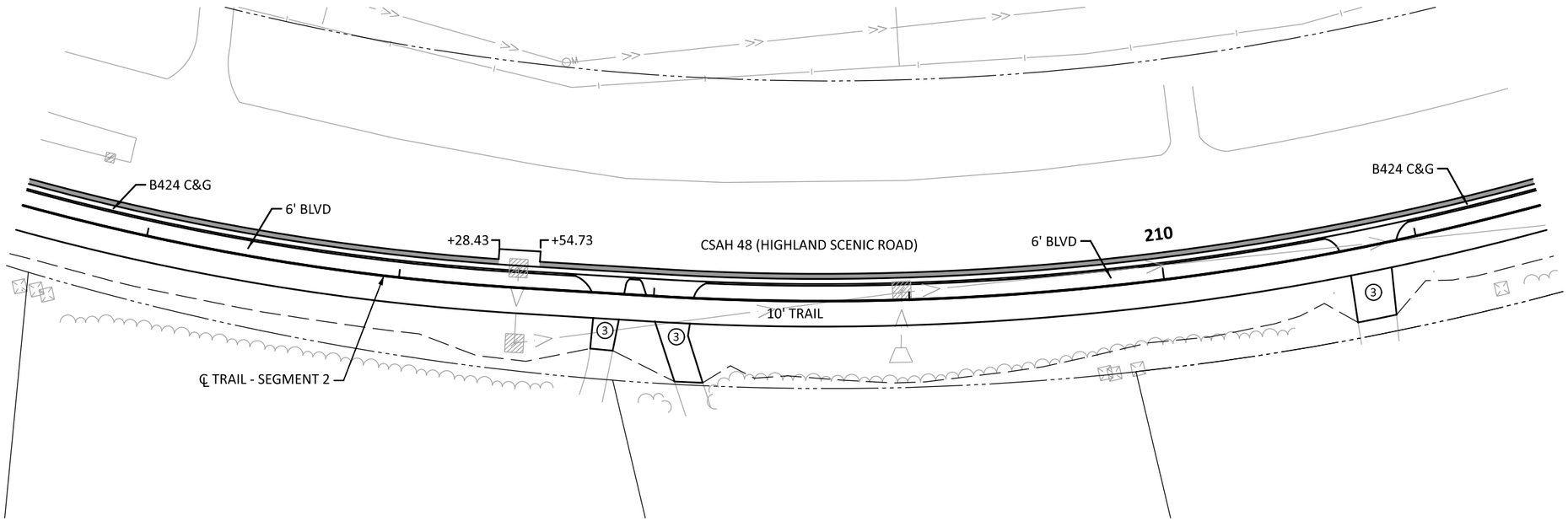
wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

CONSTRUCTION PLAN

SP 230-090-003 / SP 018-070-024





LEGEND

- ① SIDEWALK PEDESTRIAN CURB RAMP SEE STD PLANS & PED RAMP DETAILS
- ② CONSTRUCT CONCRETE MEDIAN NOSE PER STANDARD PLATE 7113
- ③ SEE DRIVEWAY DETAILS FOR MORE INFORMATION
- ④ 10' CURB TRANSITION. SEE MISCELLANEAOUS DETAILS FOR MORE INFORMATION
- BITUMINOUS PATCHING
- CONSTRUCTION LIMITS
- EXISTING R/W
- NEW R/W
- TEMPORARY EASEMENT
- INPLACE TRAIL & UTIL EASEMENT

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

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DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

CONSTRUCTION PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 56 of 100 Sheets

DATE: 4/20/2026 TIME: 9:49:35 AM
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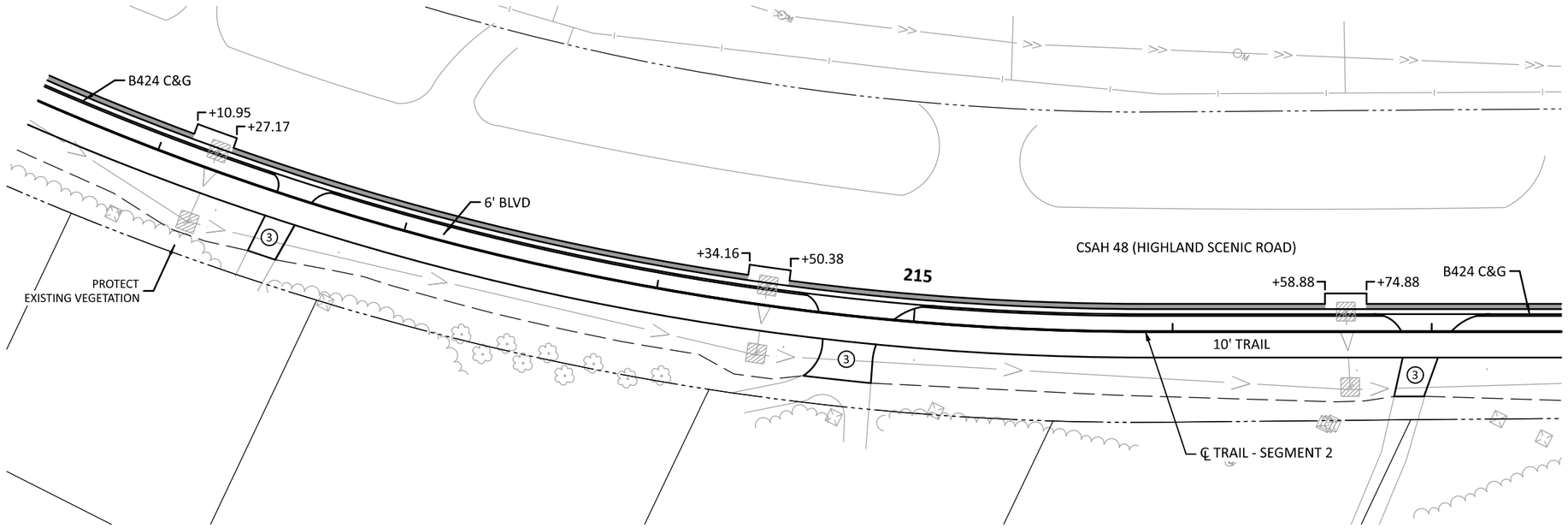

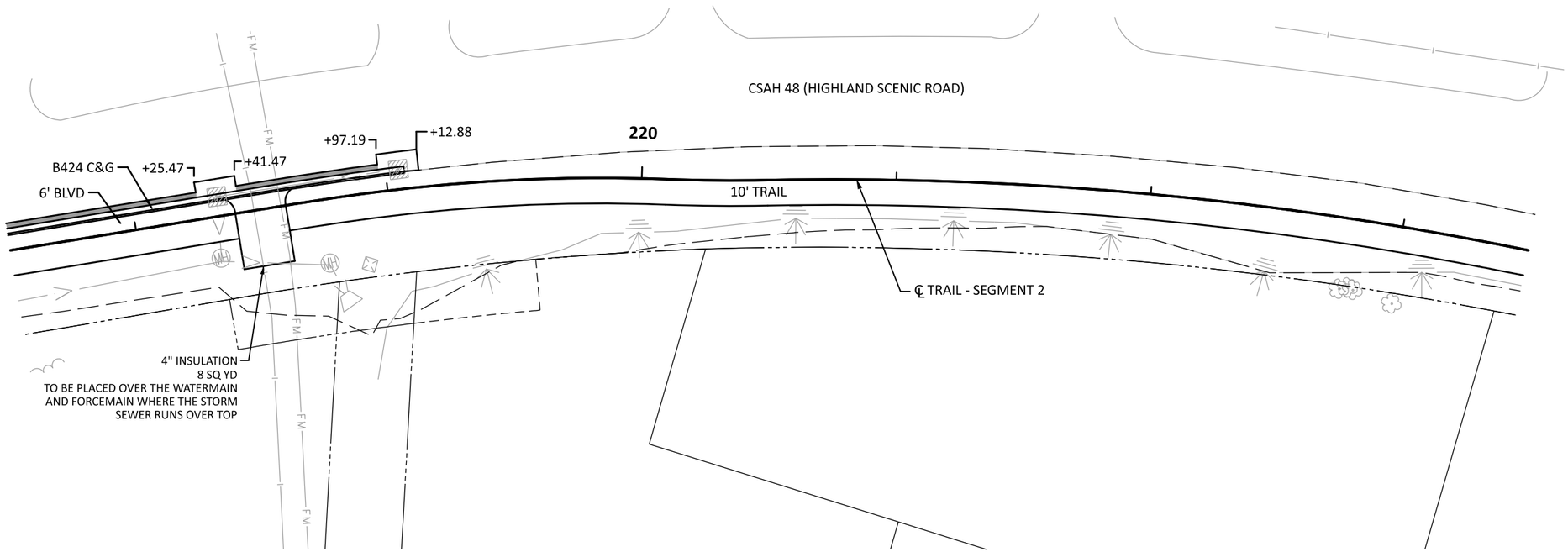

LEGEND

- ① SIDEWALK PEDESTRIAN CURB RAMP SEE STD PLANS & PED RAMP DETAILS
- ② CONSTRUCT CONCRETE MEDIAN NOSE PER STANDARD PLATE 7113
- ③ SEE DRIVEWAY DETAILS FOR MORE INFORMATION
- ④ 10' CURB TRANSITION. SEE MISCELLANEAOUS DETAILS FOR MORE INFORMATION
- BITUMINOUS PATCHING
- CONSTRUCTION LIMITS
- EXISTING R/W
- NEW R/W
- TEMPORARY EASEMENT
- INPLACE TRAIL & UTIL EASEMENT

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

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SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

CONSTRUCTION PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 57 of 100 Sheets

DATE: 4/20/2026 TIME: 9:49:35 AM
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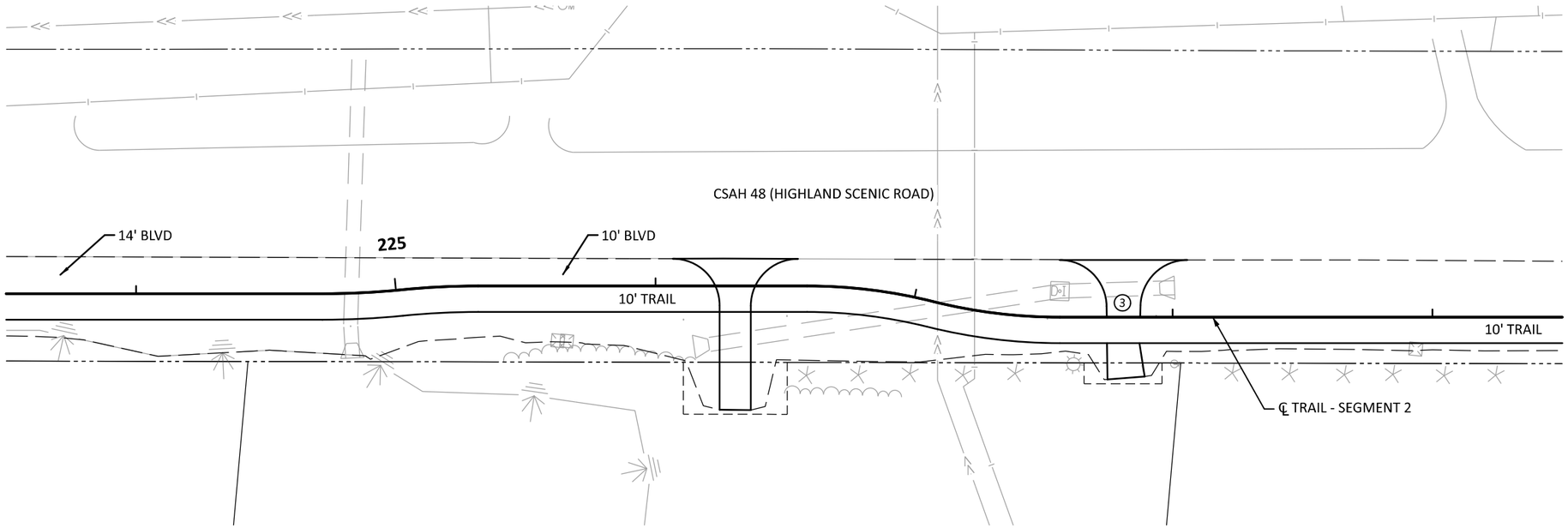

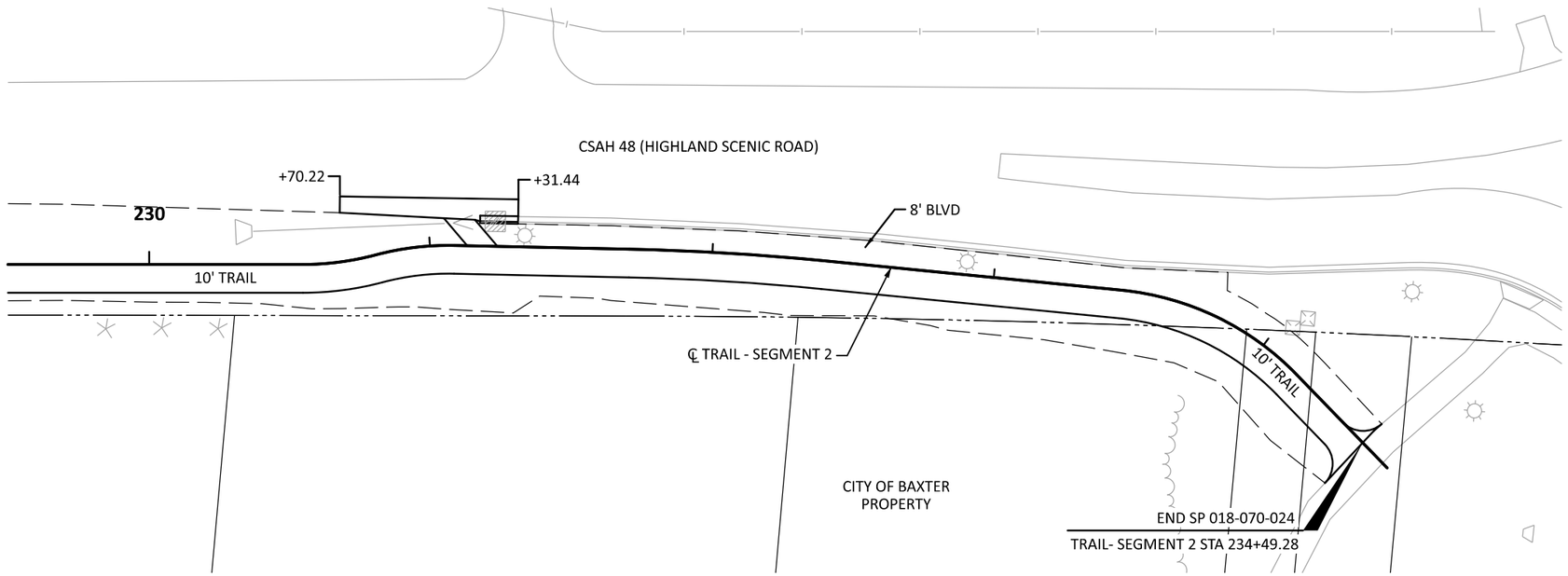

LEGEND

1. SIDEWALK PEDESTRIAN CURB RAMP SEE STD PLANS & PED RAMP DETAILS
2. CONSTRUCT CONCRETE MEDIAN NOSE PER STANDARD PLATE 7113
3. SEE DRIVEWAY DETAILS FOR MORE INFORMATION
4. 10' CURB TRANSITION. SEE MISCELLANEAOUS DETAILS FOR MORE INFORMATION

BITUMINOUS PATCHING

CONSTRUCTION LIMITS
EXISTING R/W
NEW R/W
TEMPORARY EASEMENT
INPLACE TRAIL & UTIL EASEMENT

DATE: 4/20/2026 TIME: 9:49:36 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-185cpp-001

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

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SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

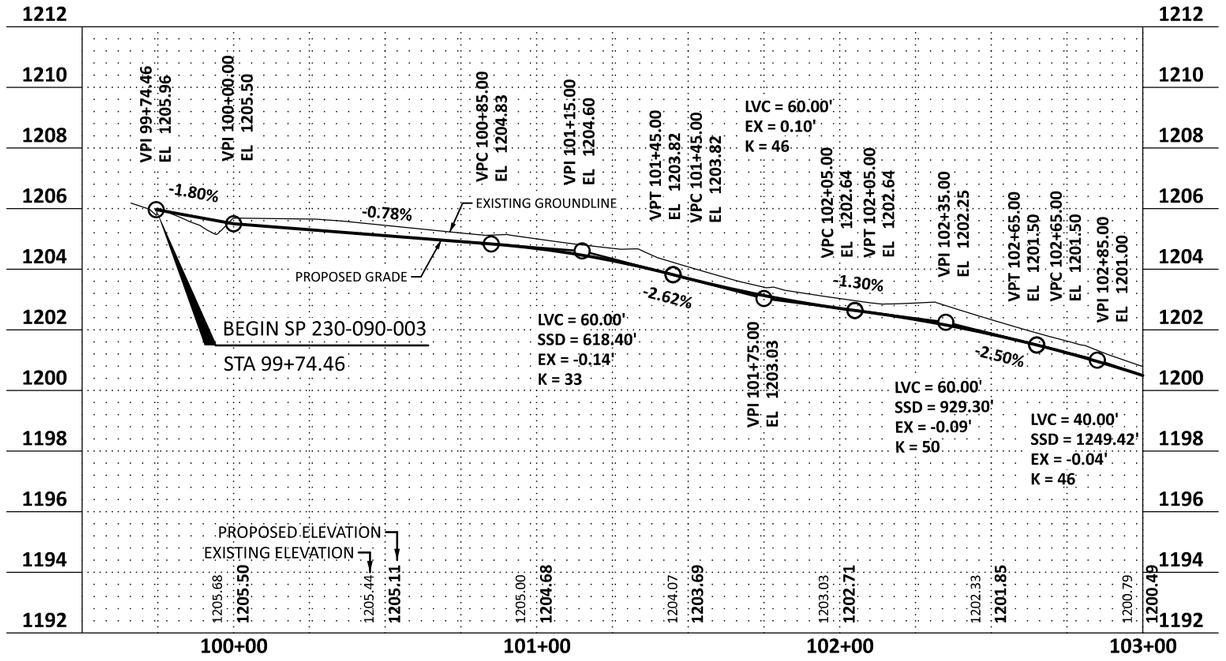
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

CONSTRUCTION PLAN

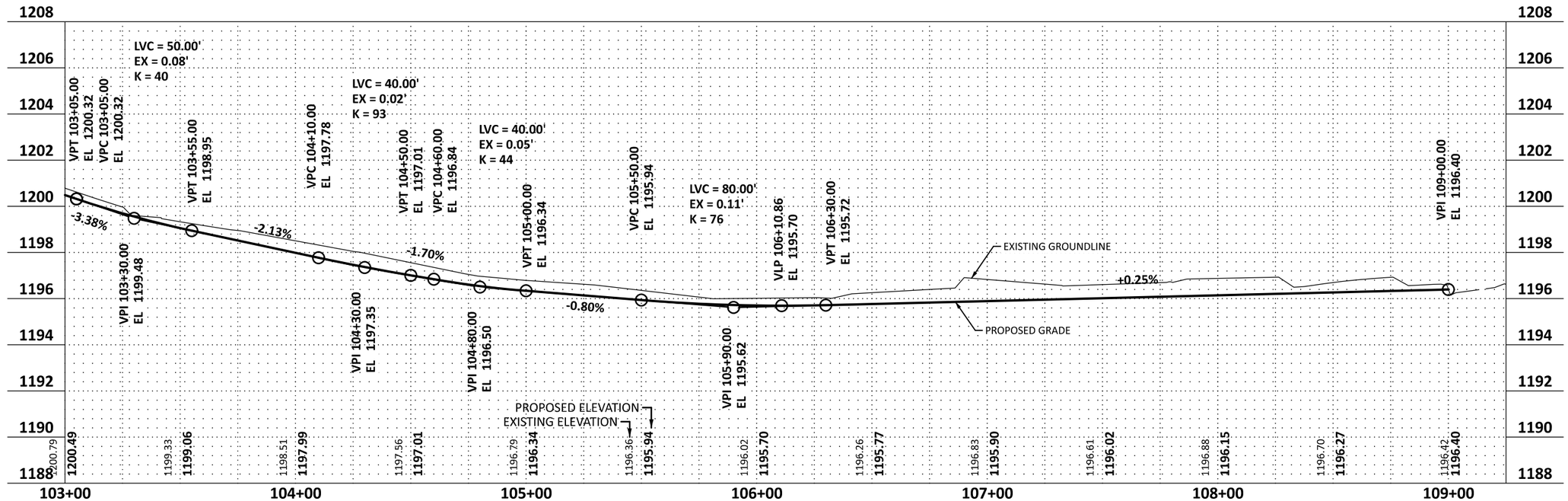
SP 230-090-003 / SP 018-070-024

Sheet No. 58 of 100 Sheets

TRAIL - SEGMENT 1



TRAIL - SEGMENT 1



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FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-190pro-001

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

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DATE: 4/20/2026 LIC. NO. 56164

wsb

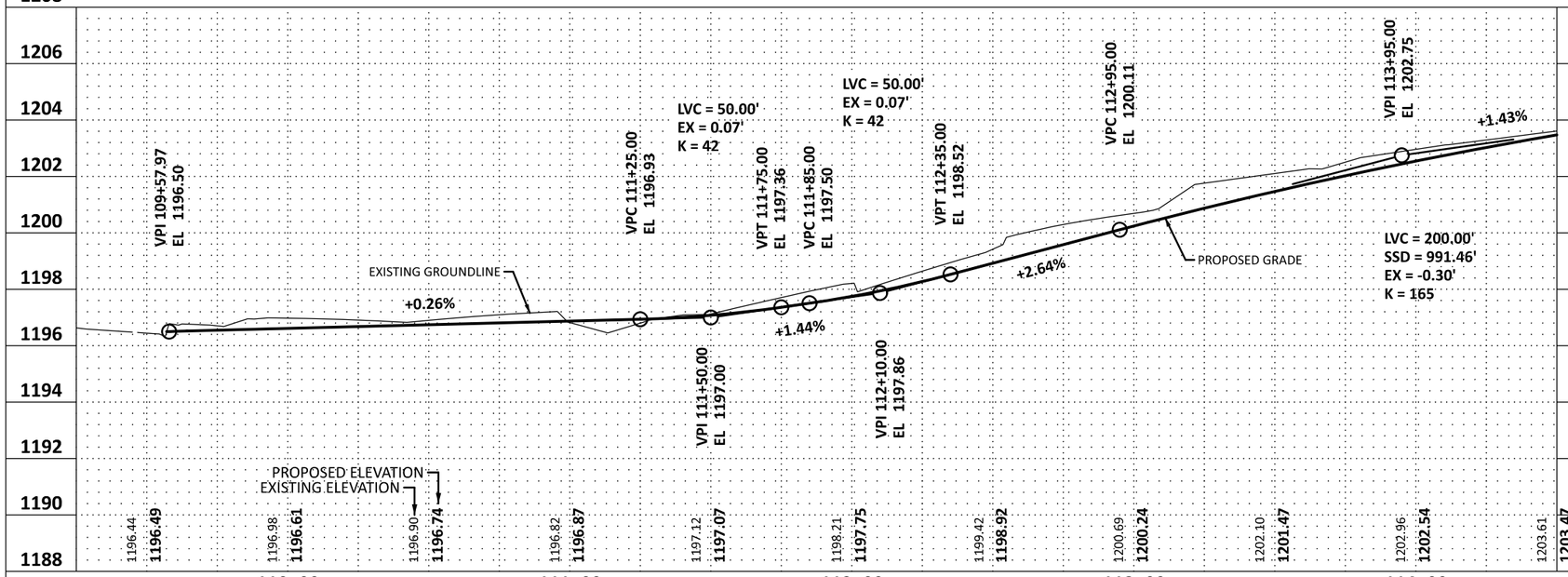
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

PROFILES

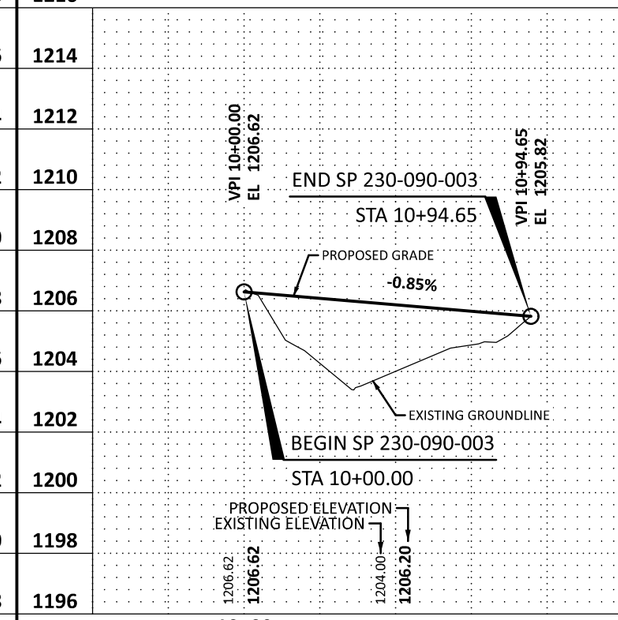
SP 230-090-003 / SP 018-070-024

Sheet No. 59 of 100 Sheets

TRAIL - SEGMENT 1



TRAIL - CONNECTION



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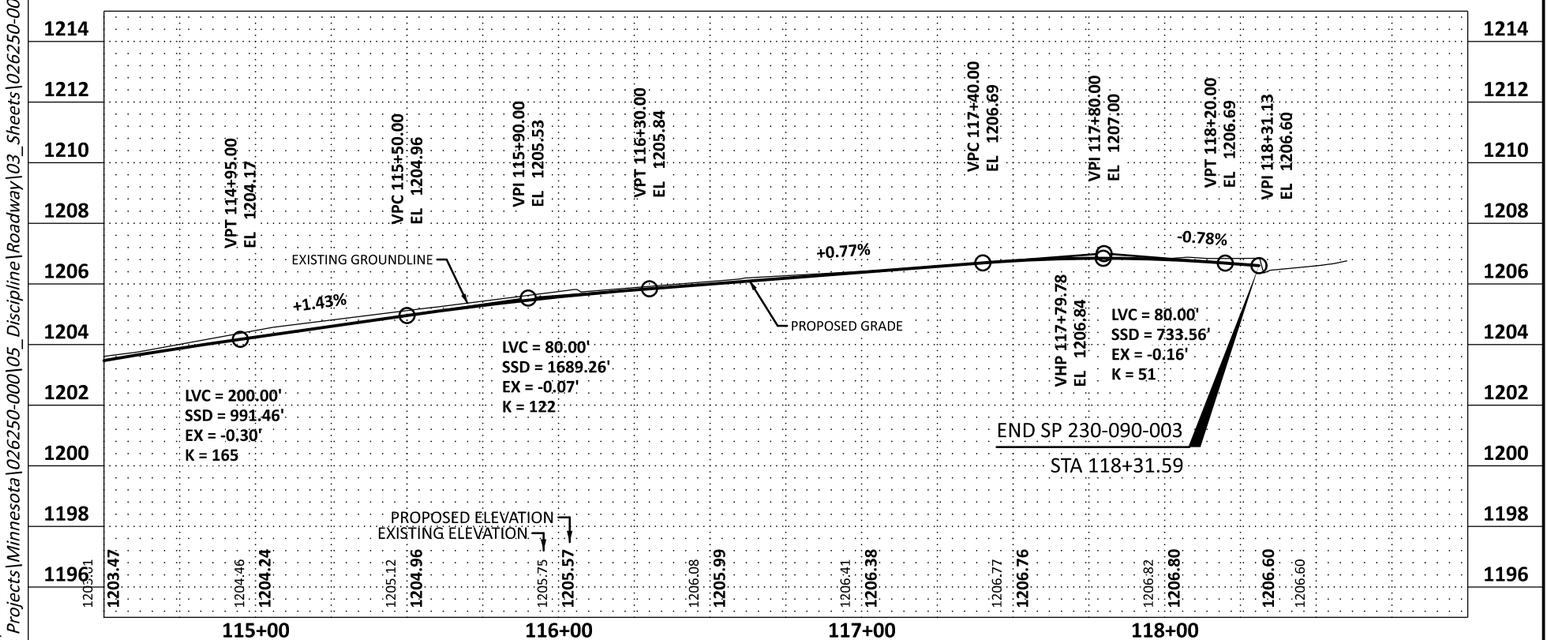

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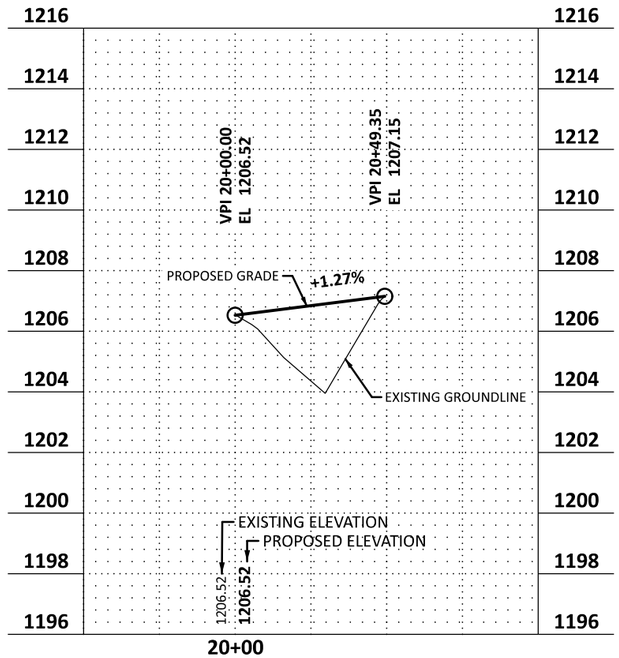

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

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SIGNATURE:
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DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

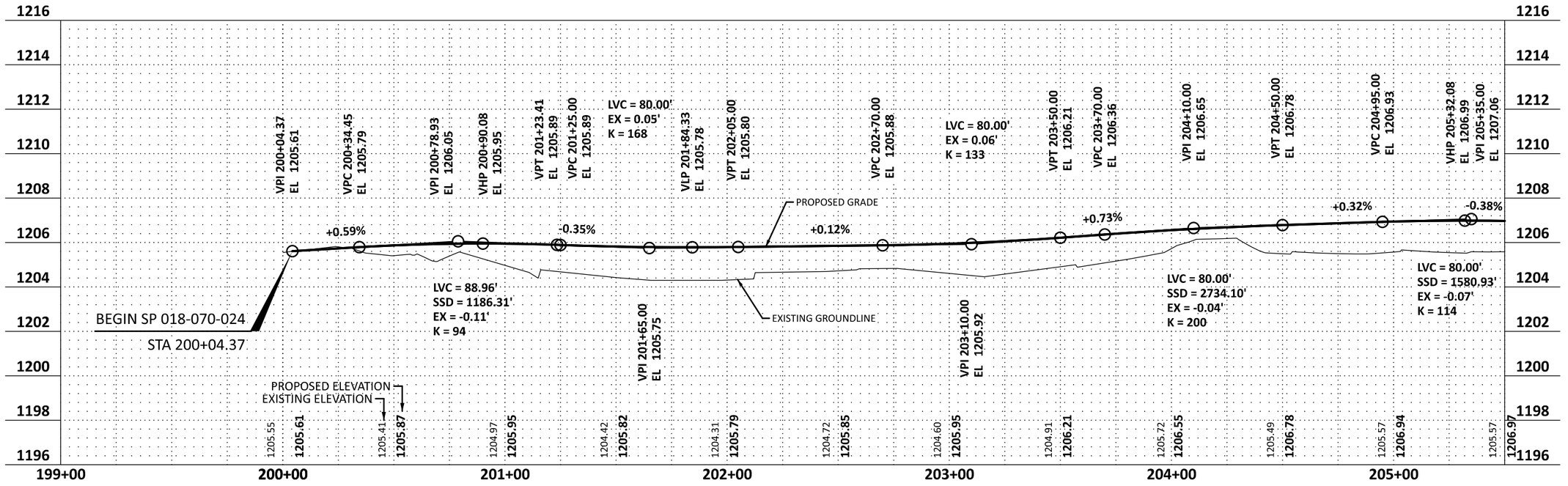
PROFILES

SP 230-090-003 / SP 018-070-024

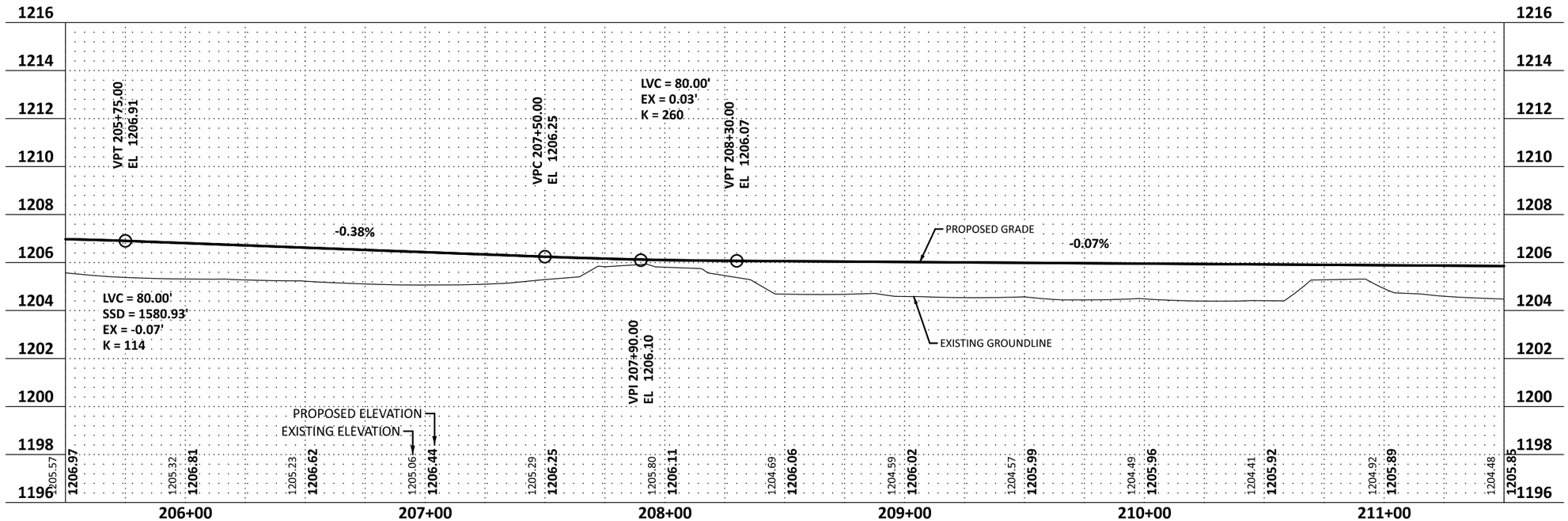
Sheet No. 60 of 100 Sheets

DATE: 4/20/2026 TIME: 9:49:46 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-190pro-001

TRAIL - SEGMENT 2



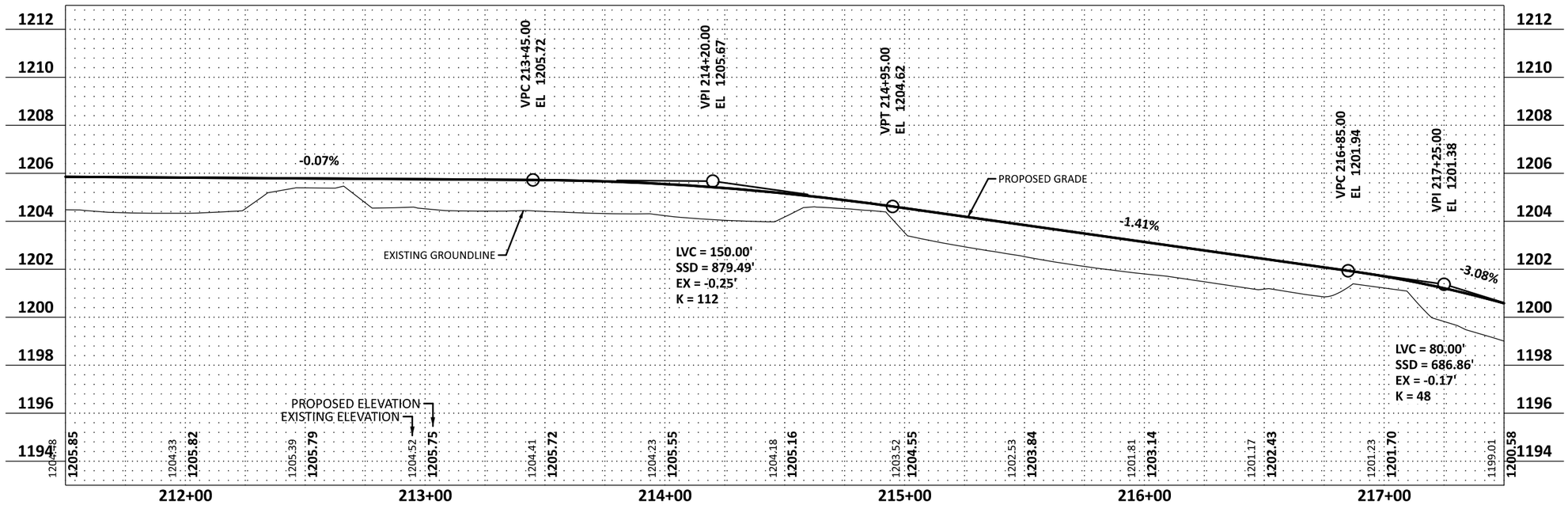
TRAIL - SEGMENT 2



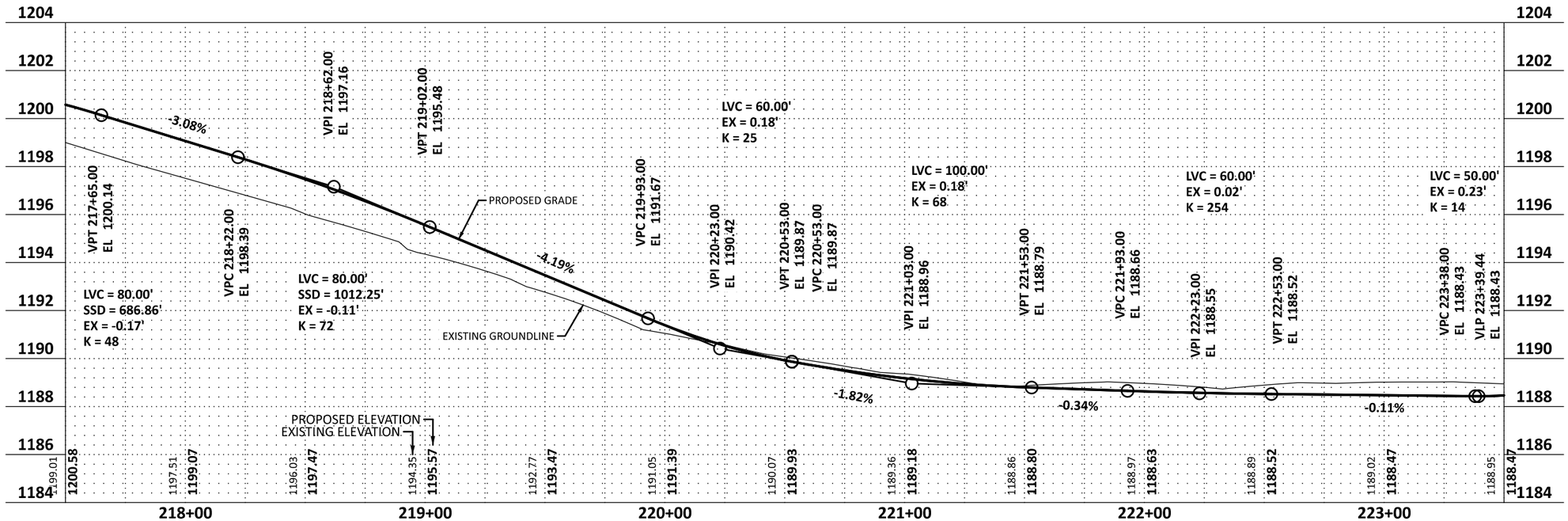
DRAWN BY: AS DESIGNED BY: MKV CHECKED BY: JK	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE: PRINTED NAME: MARCUS VANDERBRUG, P.E. DATE: 4/20/2026 LIC. NO. 56164	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	PROFILES	SP 230-090-003 / SP 018-070-024 Sheet No. 61 of 100 Sheets

DATE: 4/20/2026 TIME: 9:49:47 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-190pro-001

TRAIL - SEGMENT 2



TRAIL - SEGMENT 2



DATE: 4/20/2026 TIME: 9:49:48 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-190pro-001

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

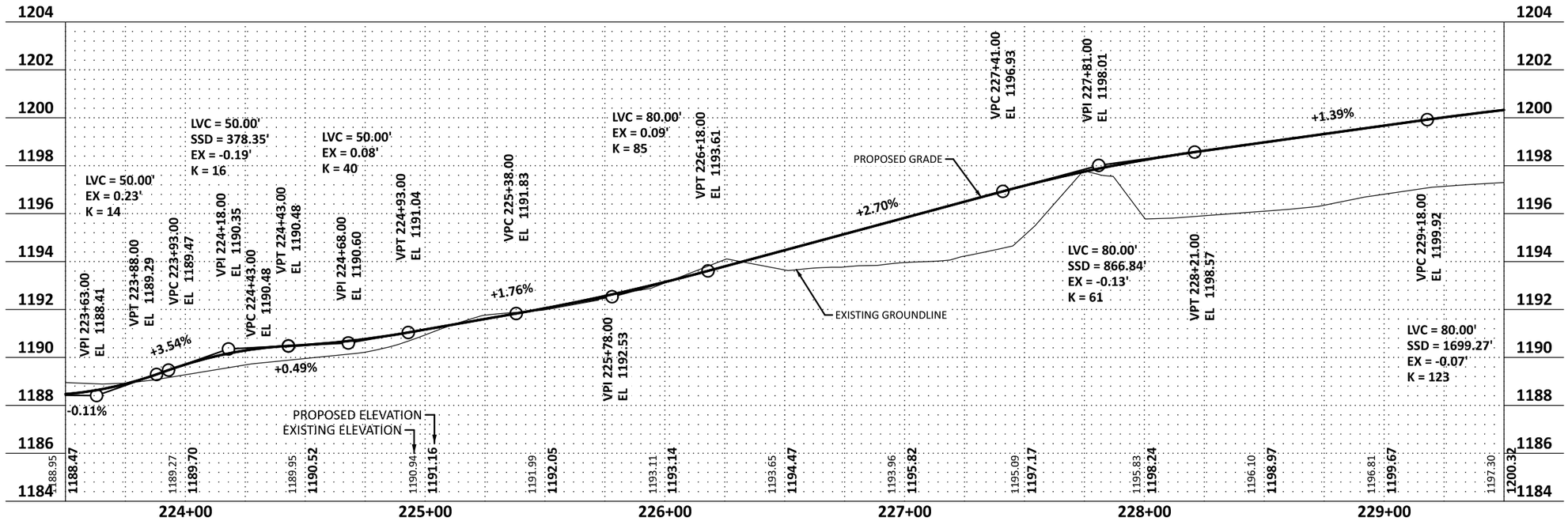
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

PROFILES

SP 230-090-003 / SP 018-070-024

Sheet No. 62 of 100 Sheets

TRAIL - SEGMENT 2



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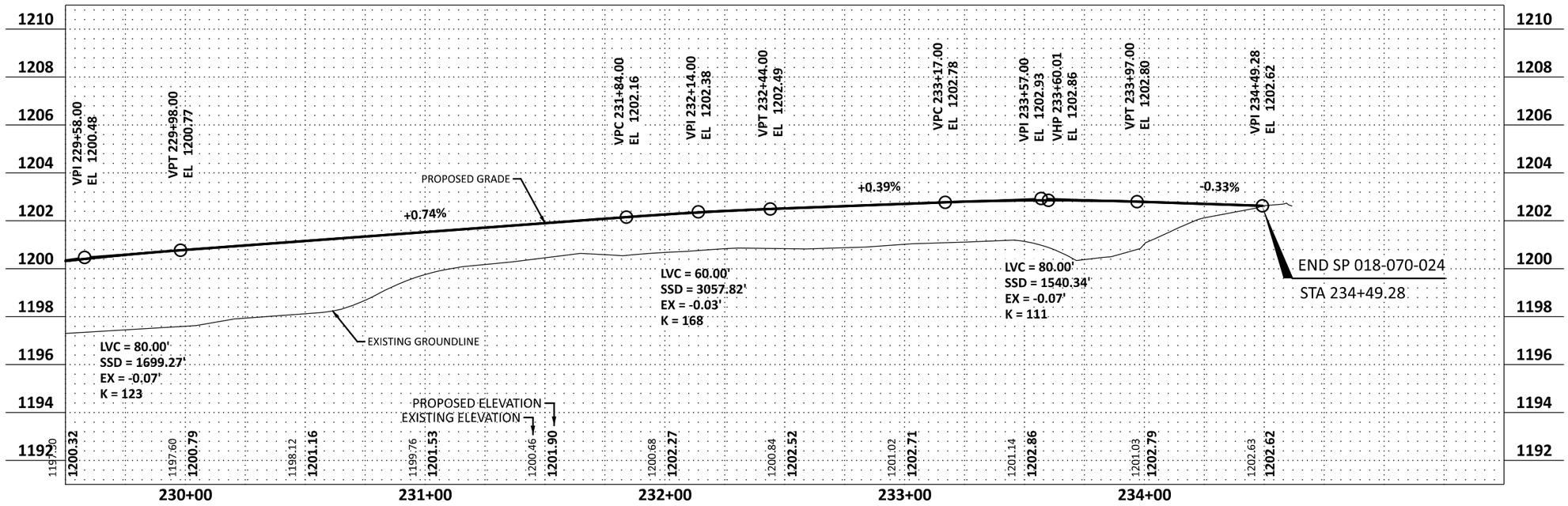

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FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-190pro-001

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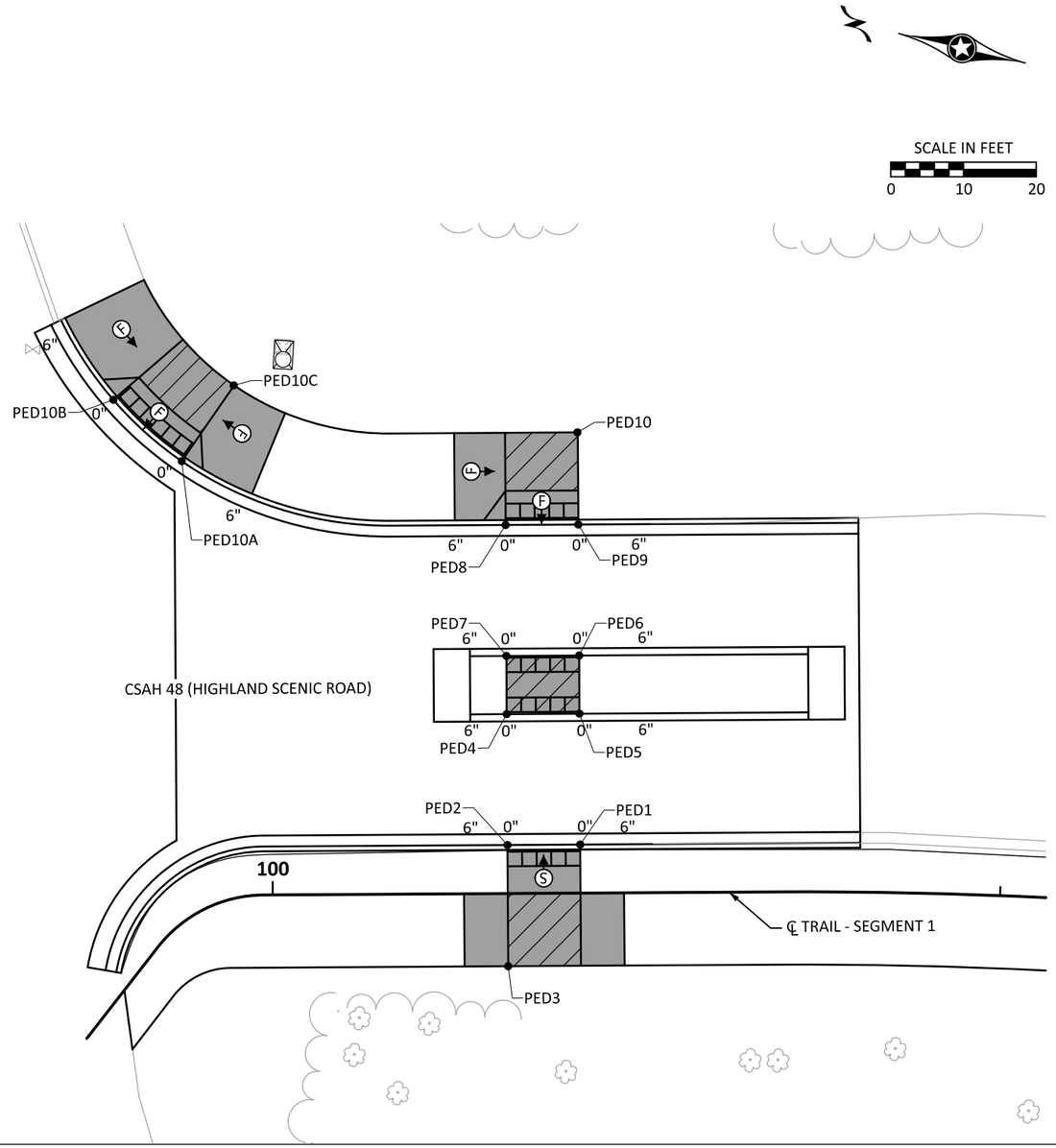
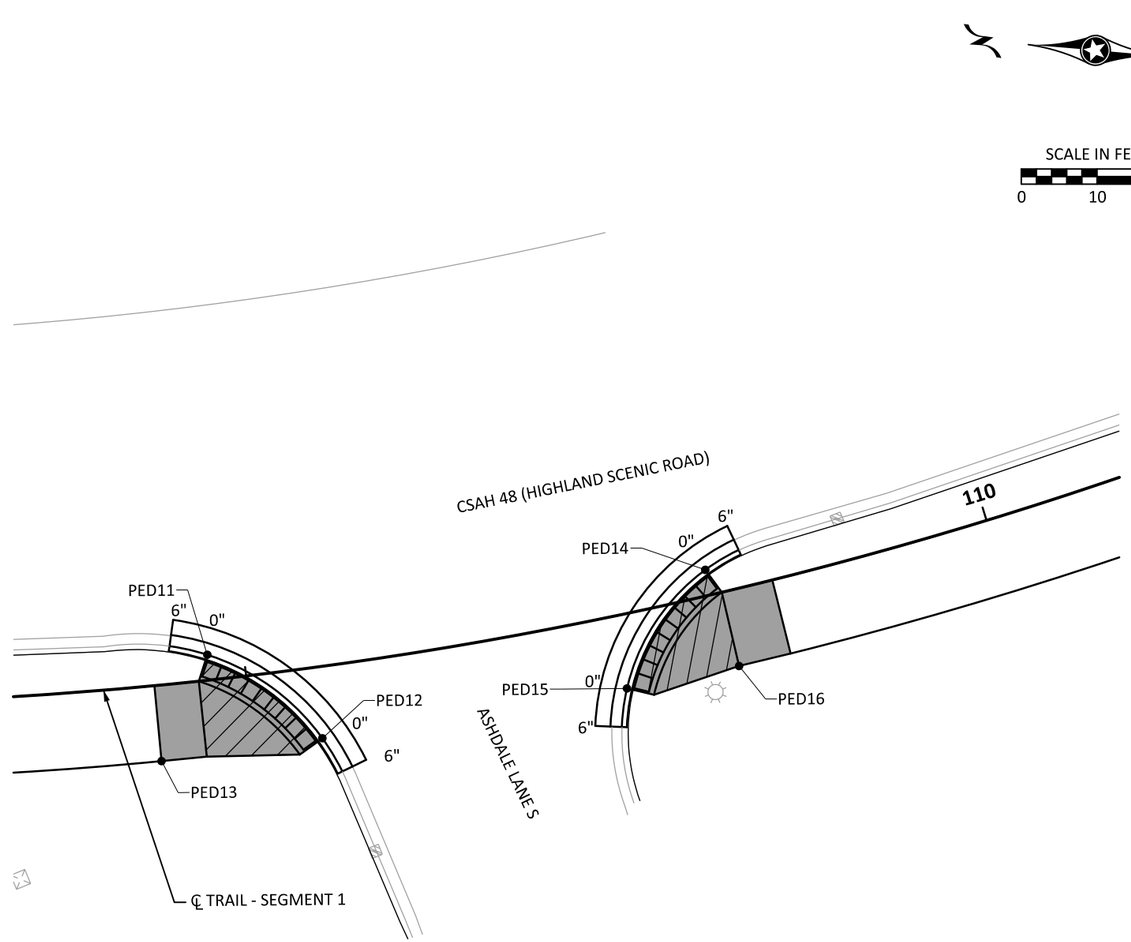
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

PROFILES

SP 230-090-003 / SP 018-070-024





PEDESTRIAN POINTS			
POINT	X	Y	ELEVATION
1	545526.39	167692.84	1204.73
2	545525.78	167702.84	1204.80
3	545509.14	167695.03	1205.40
4	545543.74	167703.94	1205.43
5	545544.36	167693.96	1205.36
6	545552.34	167694.46	1205.45
7	545551.73	167704.44	1205.49
8	545569.69	167705.55	1205.29
9	545570.31	167695.57	1205.26
10	545582.96	167696.35	1204.34
10A	545575.97	167750.50	1205.33
10B	545583.87	167760.36	1205.28
10C	545586.78	167743.89	1205.38
11	545285.27	166881.42	1196.00
12	545269.31	166871.55	1196.40
13	545272.86	166886.58	1196.52
14	545270.67	166816.36	1196.18
15	545260.11	166831.86	1196.66
16	545257.23	166817.05	1196.67

LEGEND

- XX — CONTROL POINTS AT PED. RAMP AND GUTTER FLOW LINE
- DRAINAGE FLOW ARROW
- CATCH BASIN
- TRUNCATED DOMES
- X" — CURB HEIGHT
- LANDING AREA - 4' X 4' MIN. DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS
- (S) — INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.
- (F) — INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.
- CONCRETE CURB RAMP WALK
- 8" CONCRETE WALK SPECIAL

GENERAL NOTES

- MAINTAIN A MINIMUM 4' WIDE PEDESTRIAN ACCESS ROUTE OBSTRUCTION TO OBSTRUCTION AND/OR OBSTRUCTION TO FAR EDGE OF WALK.
- THE CROSS SLOPE OF THE PEDESTRIAN ACCESS ROUTE SHALL NOT EXCEED 0.020 FT/FT.
- PROVIDE A SAWCUT (INCIDENTAL) AT ALL CONCRETE WALK AND BITUMINOUS TRAIL REMOVAL LIMITS.
- ALL CURB RAMPS AND LANDING AREAS SHALL BE 6" CONCRETE WALK ON 6" AGGREGATE BASE (CV) CLASS 5.

DRAWN BY: AS
DESIGNED BY: MKV
CHECKED BY: JK

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wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

PEDESTRIAN RAMP DETAILS

SP 230-090-003 / SP 018-070-024

Sheet No. 64 of 100 Sheets

DATE: 4/20/2026 TIME: 9:49:57 AM
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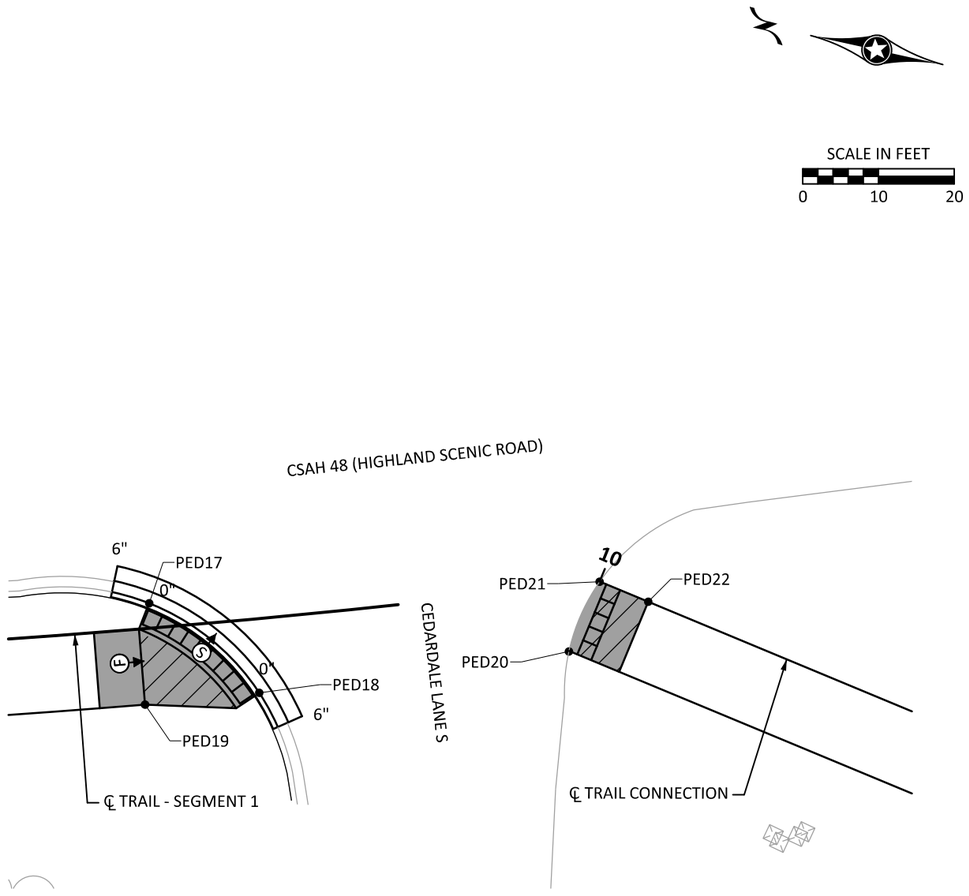

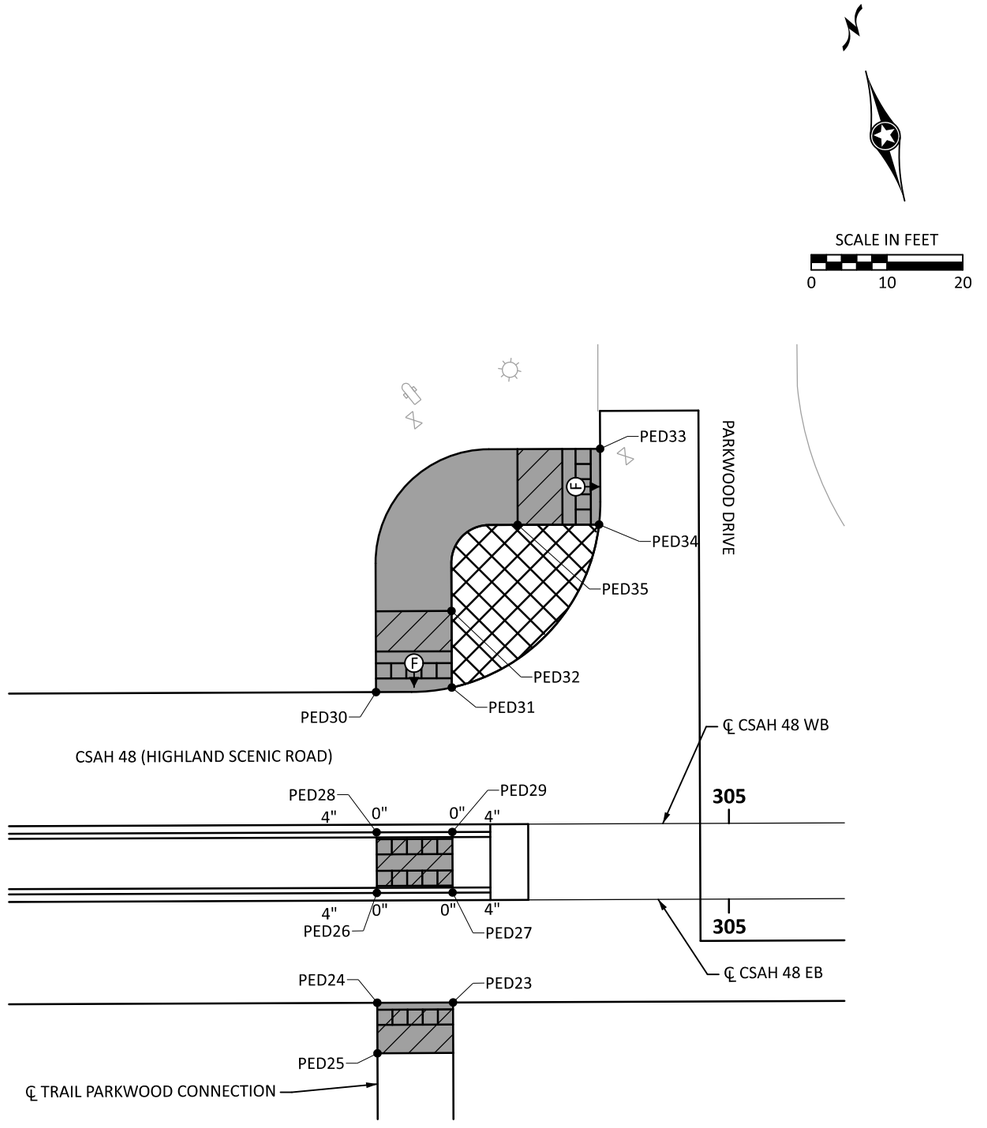

PEDESTRIAN POINTS			
POINT	X	Y	ELEVATION
17	545544.89	166013.42	1206.40
18	545540.32	165995.26	1206.24
19	545532.54	166008.27	1206.79
20	545562.53	165960.52	1206.42
21	545572.59	165960.74	1206.62
22	545572.90	165953.80	1206.56
23	546512.1990	165114.4850	1207.14
24	546504.3957	165120.7380	1207.14
25	546500.2245	165115.5340	1207.24
26	546513.4635	165132.0530	1207.42
27	546521.2668	165125.7990	1207.42
28	546518.4665	165138.2960	1207.50
29	546526.2698	165132.0420	1207.49
30	546530.0358	165152.7320	1207.09
31	546538.1948	165146.9220	1207.06
32	546544.5118	165154.8040	1207.36
33	546573.2218	165159.1307	1206.34
34	546566.8271	165151.4400	1206.53
35	546558.4393	165158.1620	1206.85

LEGEND

- XX — CONTROL POINTS AT PED. RAMP AND GUTTER FLOW LINE
- DRAINAGE FLOW ARROW
- CATCH BASIN
- TRUNCATED DOMES
- X" — CURB HEIGHT
- LANDING AREA - 4' X 4' MIN. DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS
- (S) — INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.
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GENERAL NOTES

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- ALL CURB RAMPS AND LANDING AREAS SHALL BE 6" CONCRETE WALK ON 6" AGGREGATE BASE (CV) CLASS 5.

DRAWN BY: AS
DESIGNED BY: MKV
CHECKED BY: JK

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wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

PEDESTRIAN RAMP DETAILS

SP 230-090-003 / SP 018-070-024

Sheet No. 65 of 100 Sheets

DATE: 4/20/2026 TIME: 9:49:58 AM
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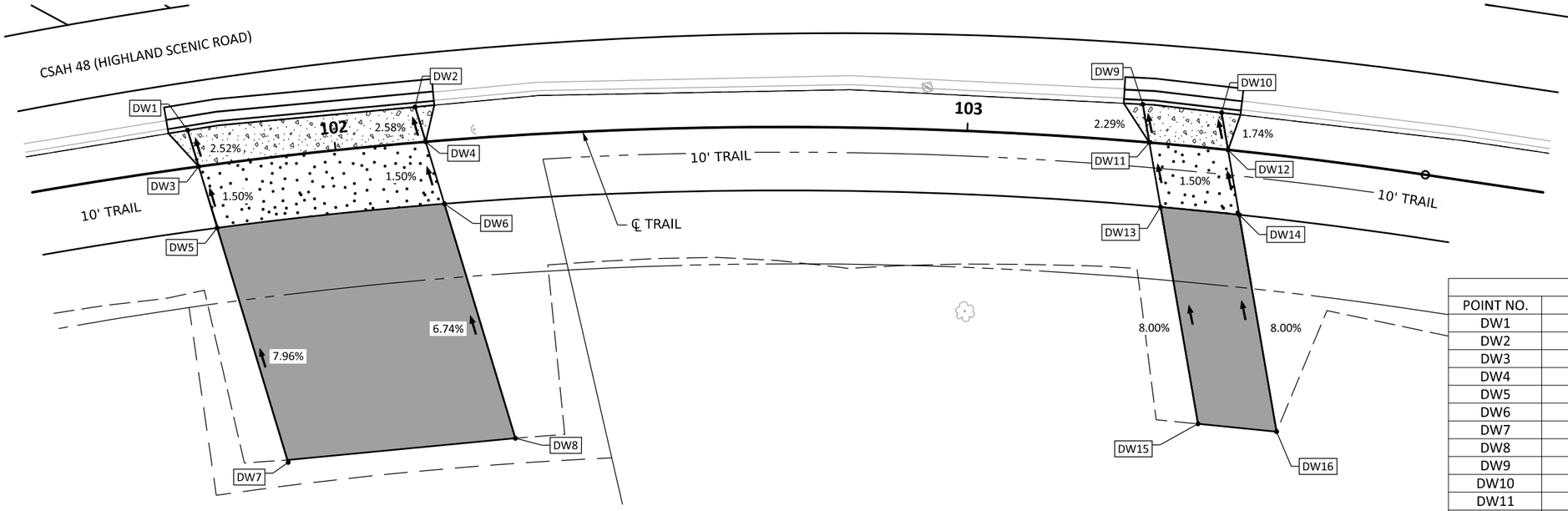
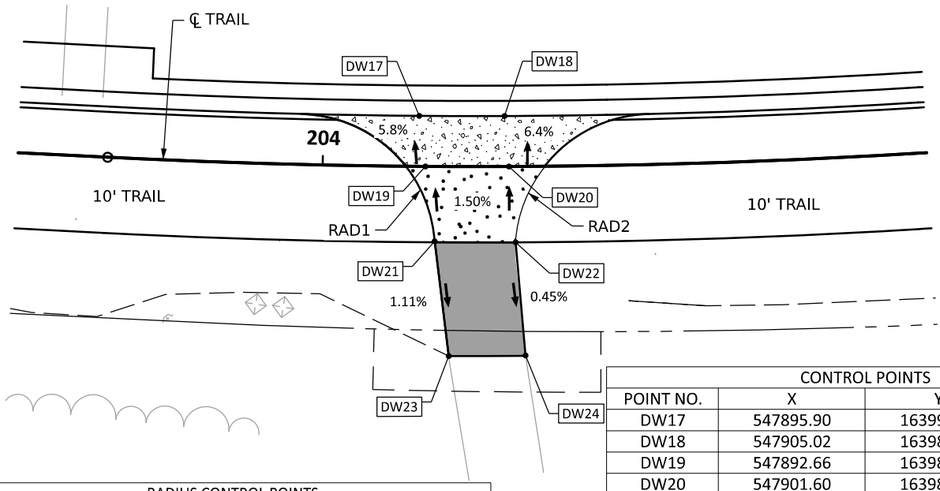


SCALE IN FEET
0 10 20

CONTROL POINTS			
POINT NO.	X	Y	ELEV
DW1	545525.41	167557.10	1202.92
DW2	545520.72	167521.26	1202.36
DW3	545519.43	167556.73	1203.07
DW4	545514.98	167520.91	1202.51
DW5	545509.32	167556.11	1203.22
DW6	545504.77	167520.28	1202.66
DW7	545470.67	167553.72	1206.13
DW8	545466.12	167517.89	1205.27
DW9	545494.66	167409.22	1199.45
DW10	545490.51	167397.40	1199.16
DW11	545488.54	167409.59	1199.59
DW12	545484.55	167397.77	1199.26
DW13	545478.22	167410.23	1199.74
DW14	545474.17	167398.41	1199.42
DW15	545443.51	167412.35	1202.61
DW16	545439.45	167400.54	1202.30

LEGEND

XXX	CONTROL POINT CALLOUT, SEE CONTROL POINT TABLE
	8" CONCRETE DRIVEWAY PAVEMENT, SEE INSET ON SHEET 15
	6" CONCRETE DRIVEWAY PAVEMENT, SEE INSET ON SHEET 15
	BITUMINOUS DRIVEWAY PAVEMENT, SEE INSET ON SHEET 15
	BITUMINOUS TRAIL PAVEMENT, SEE INSET ON SHEET 15
DRIVEWAY INFORMATION:	STA AT CENTER, OFFSET / DRIVEWAY WIDTH
	INPLACE RIGHT-OF-WAY
	CONSTRUCTION LIMITS
	DRAINAGE FLOW DIRECTION



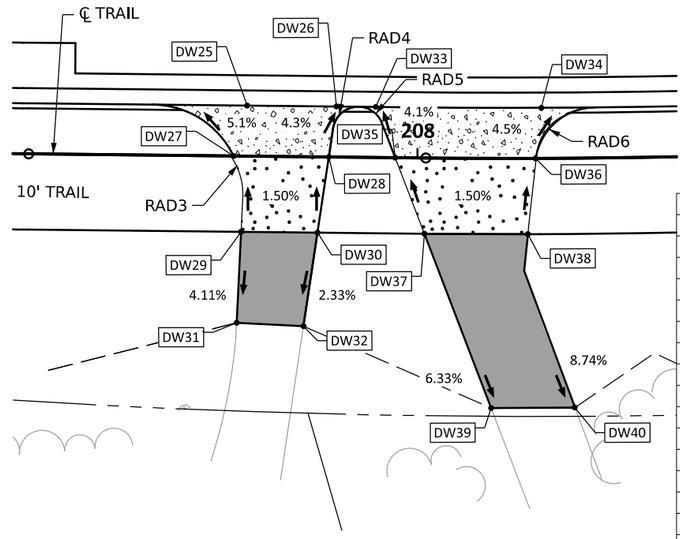
SCALE IN FEET
0 10 20

RADIUS CONTROL POINTS			
POINT NO.	X	Y	RADIUS(FT)
RAD1	547872.58	163988.03	18.00
RAD2	547910.41	163960.74	18.00

CONTROL POINTS			
POINT NO.	X	Y	ELEV
DW17	547895.90	163993.09	1206.25
DW18	547905.02	163986.49	1206.27
DW19	547892.66	163987.20	1206.64
DW20	547901.60	163980.74	1206.70
DW21	547887.87	163978.48	1206.78
DW22	547896.46	163972.12	1206.86
DW23	547880.53	163965.10	1206.61
DW24	547888.80	163959.24	1206.80

RADIUS CONTROL POINTS			
POINT NO.	X	Y	RADIUS(FT)
RAD3	548206.14	163830.60	12.00
RAD4	548234.64	163831.37	3.35
RAD5	548234.64	163831.37	3.40
RAD6	548263.54	163818.43	8.00

CSAH 48 (HIGHLAND SCENIC ROAD)



SCALE IN FEET
0 10 20

CONTROL POINTS			
POINT NO.	X	Y	ELEV
DW25	548221.44	163838.67	1205.82
DW26	548232.77	163835.40	1205.84
DW27	548217.95	163832.74	1206.16
DW28	548230.02	163829.25	1206.13
DW29	548216.21	163822.83	1206.32
DW30	548225.91	163820.03	1206.28
DW31	548212.44	163811.41	1205.82
DW32	548220.82	163808.64	1205.99
DW33	548237.77	163833.95	1205.84
DW34	548258.79	163827.98	1205.78
DW35	548238.44	163826.82	1206.11
DW36	548256.27	163821.76	1206.08
DW37	548239.46	163816.12	1206.27
DW38	548252.61	163812.41	1206.23
DW39	548241.79	163791.59	1204.72
DW40	548252.48	163788.67	1204.08

DATE: 4/20/2026 TIME: 9:50:18 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-195dwy-001

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

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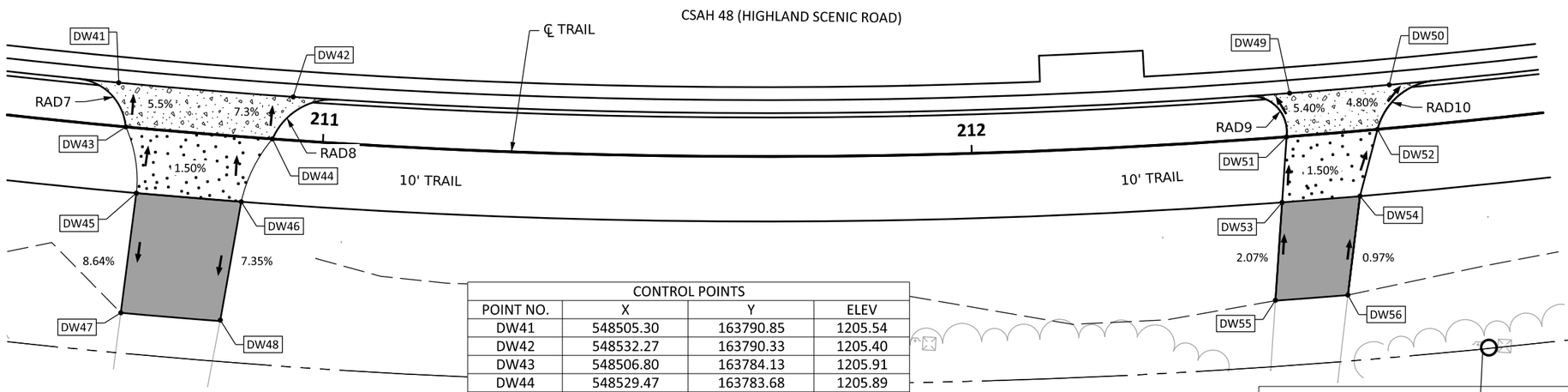
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

DRIVEWAY DETAILS

SP 230-090-003 / SP 018-070-024



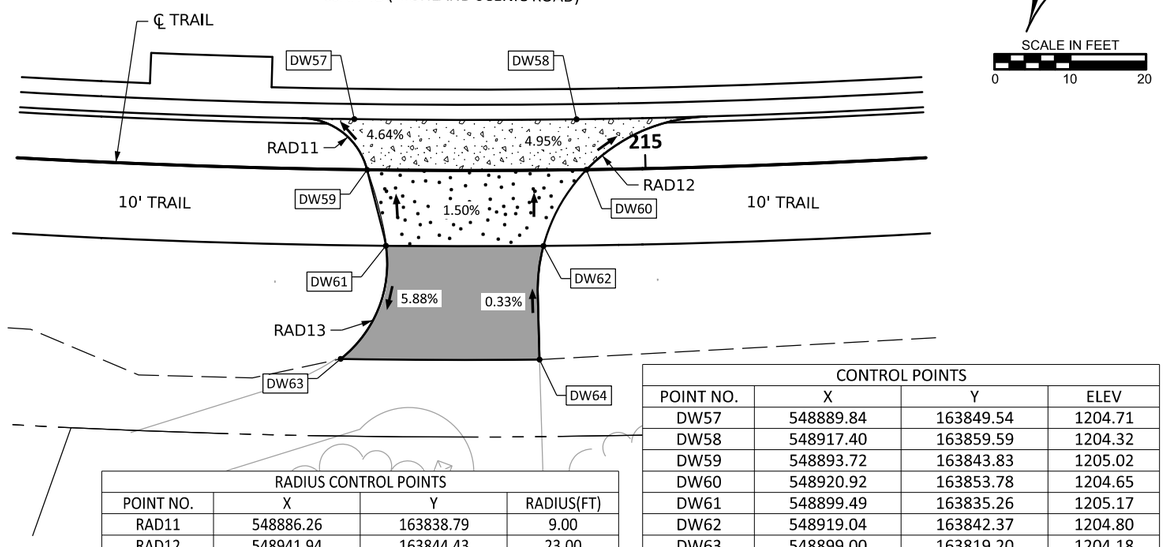
CONTROL POINTS			
POINT NO.	X	Y	ELEV
DW41	548505.30	163790.85	1205.54
DW42	548532.27	163790.33	1205.40
DW43	548506.80	163784.13	1205.91
DW44	548529.47	163783.68	1205.89
DW45	548509.06	163774.06	1206.06
DW46	548525.28	163773.73	1206.04
DW47	548507.80	163755.54	1204.46
DW48	548523.16	163755.36	1204.68
DW49	548685.43	163800.33	1205.43
DW50	548700.67	163802.55	1205.46
DW51	548685.38	163793.59	1205.79
DW52	548699.29	163795.59	1205.78
DW53	548685.31	163783.49	1205.94
DW54	548697.21	163785.17	1205.94
DW55	548685.20	163768.39	1206.25
DW56	548696.30	163769.88	1206.09

RADIUS CONTROL POINTS			
POINT NO.	X	Y	RADIUS(FT)
RAD7	548498.84	163783.08	8.00
RAD8	548538.90	163780.30	10.00
RAD9	548679.88	163794.03	5.50
RAD10	548709.11	163793.75	10.00

SCALE IN FEET
0 10 20

LEGEND

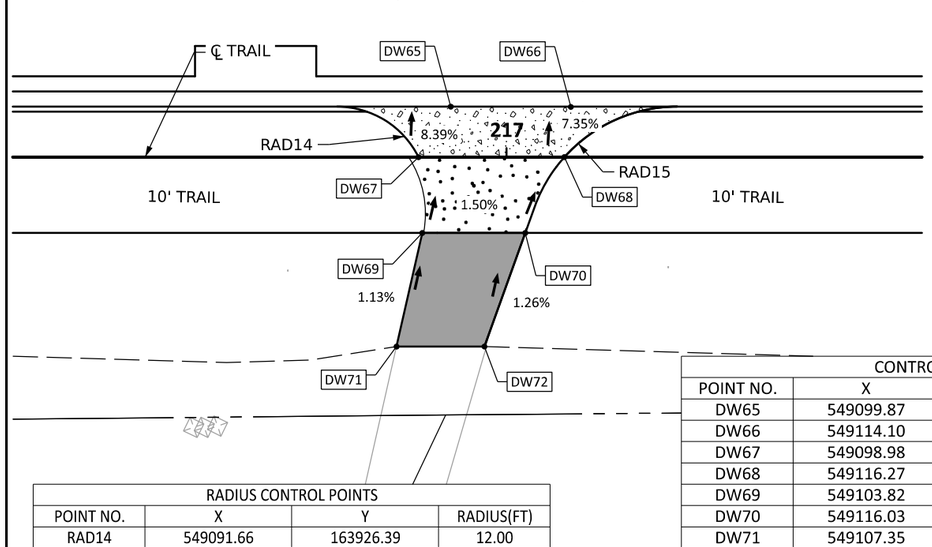
- XXX — CONTROL POINT CALLOUT, SEE CONTROL POINT TABLE
- 8" CONCRETE DRIVEWAY PAVEMENT, SEE INSET ON SHEET 15
- 6" CONCRETE DRIVEWAY PAVEMENT, SEE INSET ON SHEET 15
- BITUMINOUS DRIVEWAY PAVEMENT, SEE INSET ON SHEET 15
- BITUMINOUS TRAIL PAVEMENT, SEE INSET ON SHEET 15
- DRIVEWAY INFORMATION: STA AT CENTER, OFFSET / DRIVEWAY WIDTH
- INPLACE RIGHT-OF-WAY
- CONSTRUCTION LIMITS
- DRAINAGE FLOW DIRECTION



SCALE IN FEET
0 10 20

RADIUS CONTROL POINTS			
POINT NO.	X	Y	RADIUS(FT)
RAD11	548886.26	163838.79	9.00
RAD12	548941.94	163844.43	23.00
RAD13	548885.41	163827.65	16.00

CONTROL POINTS			
POINT NO.	X	Y	ELEV
DW57	548889.84	163849.54	1204.71
DW58	548917.40	163859.59	1204.32
DW59	548893.72	163843.83	1205.02
DW60	548920.92	163853.78	1204.65
DW61	548899.49	163835.26	1205.17
DW62	548919.04	163842.37	1204.80
DW63	548899.00	163819.20	1204.18
DW64	548923.69	163828.10	1204.85



SCALE IN FEET
0 10 20

RADIUS CONTROL POINTS			
POINT NO.	X	Y	RADIUS(FT)
RAD14	549091.66	163926.39	12.00
RAD15	549135.52	163938.92	20.00

CONTROL POINTS			
POINT NO.	X	Y	ELEV
DW65	549099.87	163943.76	1201.33
DW66	549114.10	163950.72	1201.08
DW67	549098.98	163935.90	1201.89
DW68	549116.27	163944.35	1201.57
DW69	549103.82	163927.13	1202.04
DW70	549116.03	163933.10	1201.72
DW71	549107.35	163912.17	1202.22
DW72	549117.77	163917.26	1201.94

DRAWN BY: AS
DESIGNED BY: MKV
CHECKED BY: JK

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City of Baxter
CSAH 48 Trail
Baxter, Minnesota

DRIVEWAY DETAILS

SP 230-090-003 / SP 018-070-024
Sheet No. 67 of 100 Sheets

DATE: 4/20/2026 TIME: 9:50:19 AM
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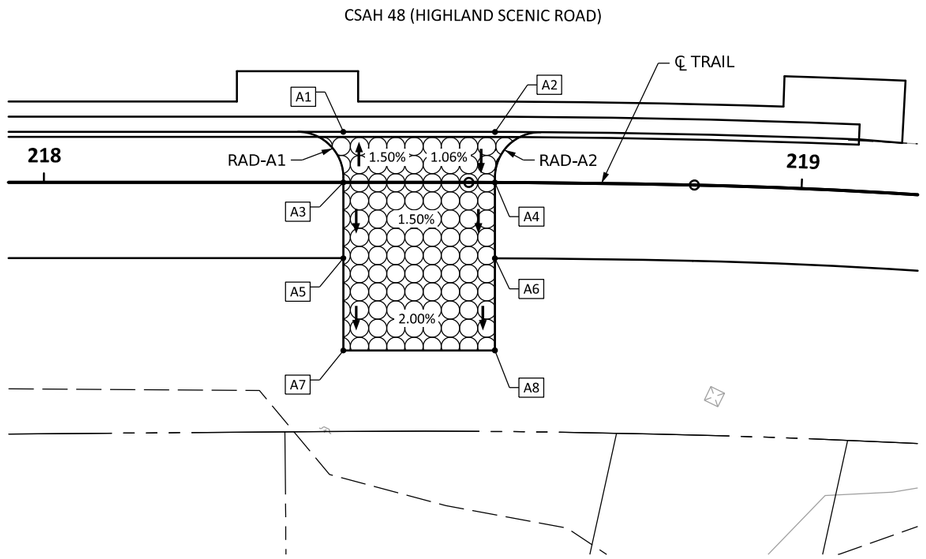


CONTROL POINTS			
POINT NO.	X	Y	ELEV
A1	549231.81	164008.26	1197.73
A2	549249.80	164017.05	1197.21
A3	549234.74	164002.27	1197.83
A4	549252.71	164011.05	1197.14
A5	549239.14	163993.28	1197.68
A6	549257.11	164002.06	1196.99
A7	549244.48	163982.35	1197.44
A8	549262.45	163991.14	1196.75

RADIUS CONTROL POINTS			
POINT NO.	X	Y	RADIUS(FT)
RAD-A1	549229.06	164000.24	6.00
RAD-A2	549257.82	164014.25	6.00

SCALE IN FEET
0 10 20

LEGEND

XXX — CONTROL POINT CALLOUT, SEE CONTROL POINT TABLE

8" CONCRETE DRIVEWAY PAVEMENT, SEE INSET ON SHEET 15

6" CONCRETE DRIVEWAY PAVEMENT, SEE INSET ON SHEET 15

BITUMINOUS DRIVEWAY PAVEMENT, SEE INSET ON SHEET 15

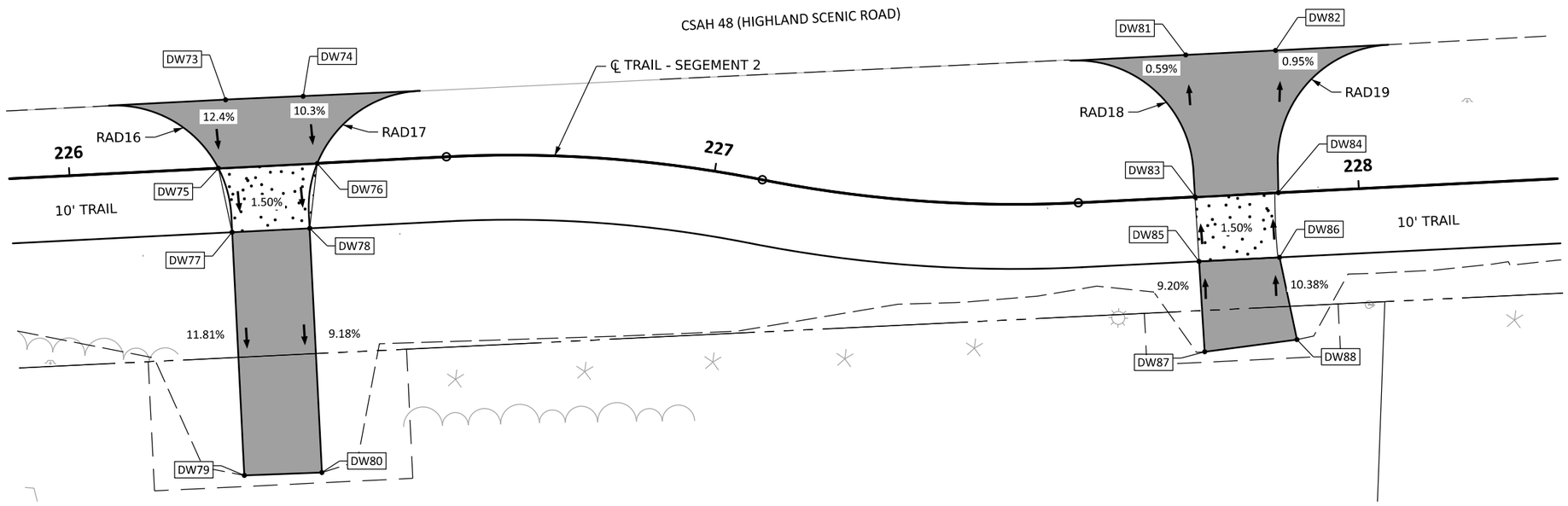
BITUMINOUS TRAIL PAVEMENT, SEE INSET ON SHEET 15

DRIVEWAY INFORMATION: STA AT CENTER, OFFSET / DRIVEWAY WIDTH

INPLACE RIGHT-OF-WAY

CONSTRUCTION LIMITS

DRAINAGE FLOW DIRECTION



SCALE IN FEET
0 10 20

RADIUS CONTROL POINTS			
POINT NO.	X	Y	RADIUS(FT)
RAD16	549980.86	164155.50	18.00
RAD17	550028.64	164160.08	18.00
RAD18	550129.12	164169.55	18.00
RAD19	550177.96	164174.35	18.00

CONTROL POINTS			
POINT NO.	X	Y	ELEV
DW73	549997.02	164175.21	1195.05
DW74	550008.96	164176.33	1195.25
DW75	549996.42	164164.56	1193.75
DW76	550011.63	164166.02	1194.16
DW77	549999.02	164154.76	1193.59
DW78	550010.96	164155.94	1194.00
DW79	550002.70	164117.28	1189.16
DW80	550014.66	164118.32	1190.53
DW81	550145.00	164189.20	1197.62
DW82	550158.83	164190.56	1197.79
DW83	550147.47	164167.33	1197.75
DW84	550160.31	164168.59	1198.00
DW85	550148.57	164157.39	1197.90
DW86	550160.98	164158.61	1198.15
DW87	550150.12	164143.48	1199.20
DW88	550161.55	164150.14	1199.50

DRAWN BY: AS
DESIGNED BY: MKV
CHECKED BY: JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

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City of Baxter
CSAH 48 Trail
Baxter, Minnesota

DRIVEWAY DETAILS

SP 230-090-003 / SP 018-070-024
Sheet No. 68 of 100 Sheets

DATE: 4/20/2026 TIME: 9:50:20 AM
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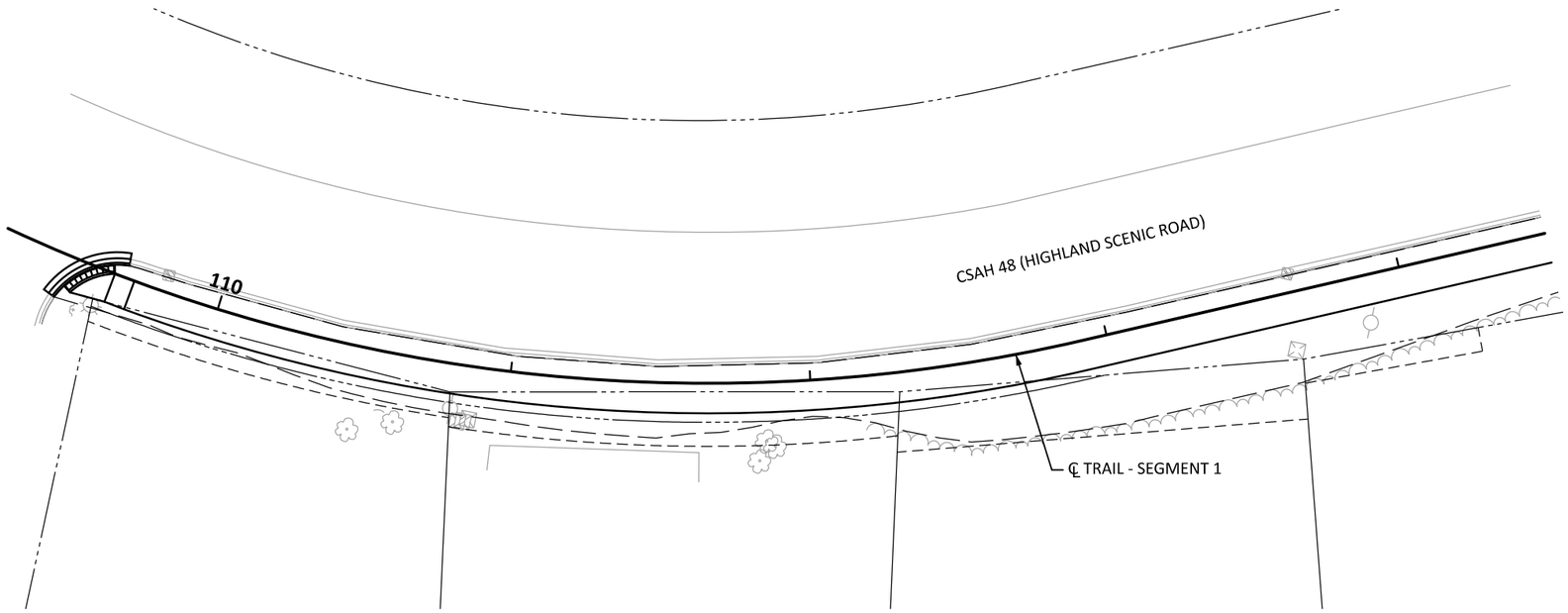

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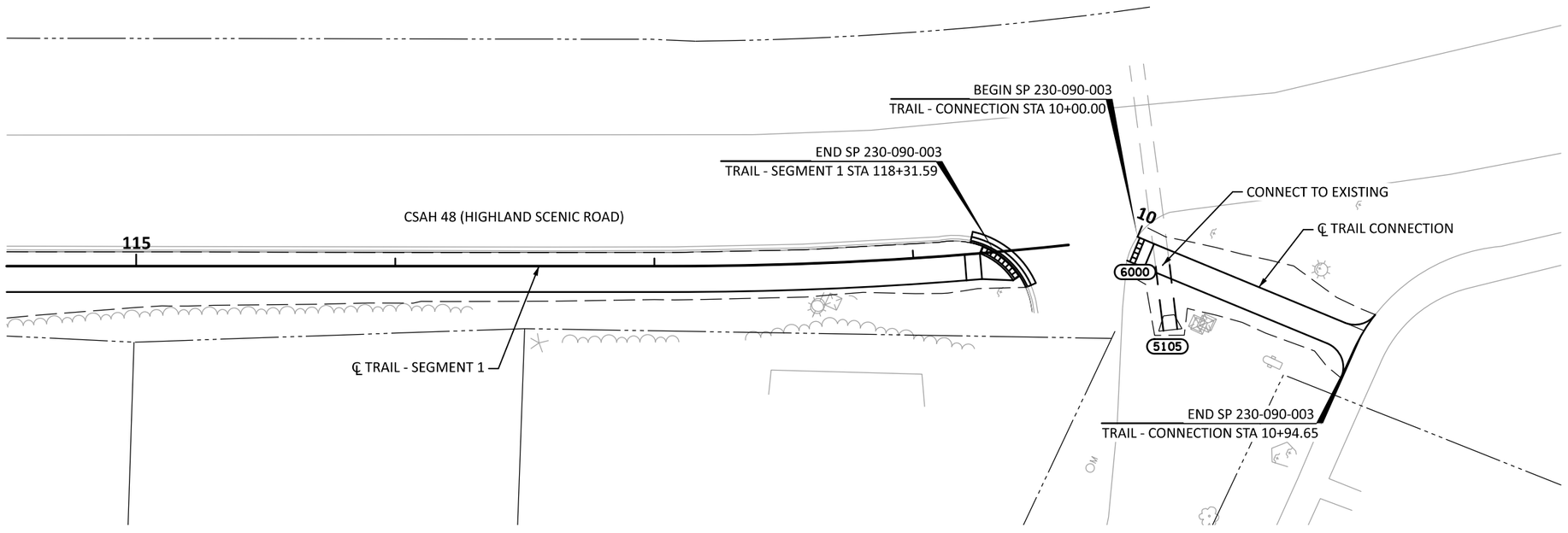


SCALE IN FEET
0 25 50

LEGEND

- CATCH BASIN/DROP INLET
- MANHOLE
- APRON
- STRUCTURE NUMBER
- STORM SEWER PIPE
- FLOW PATH
- CONSTRUCTION LIMITS
- EXISTING R/W
- NEW R/W
- TEMPORARY EASEMENT

DATE: 4/20/2026 TIME: 9:50:33 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Drainage\03_Sheets\026250-000-301drp-001.dgn

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

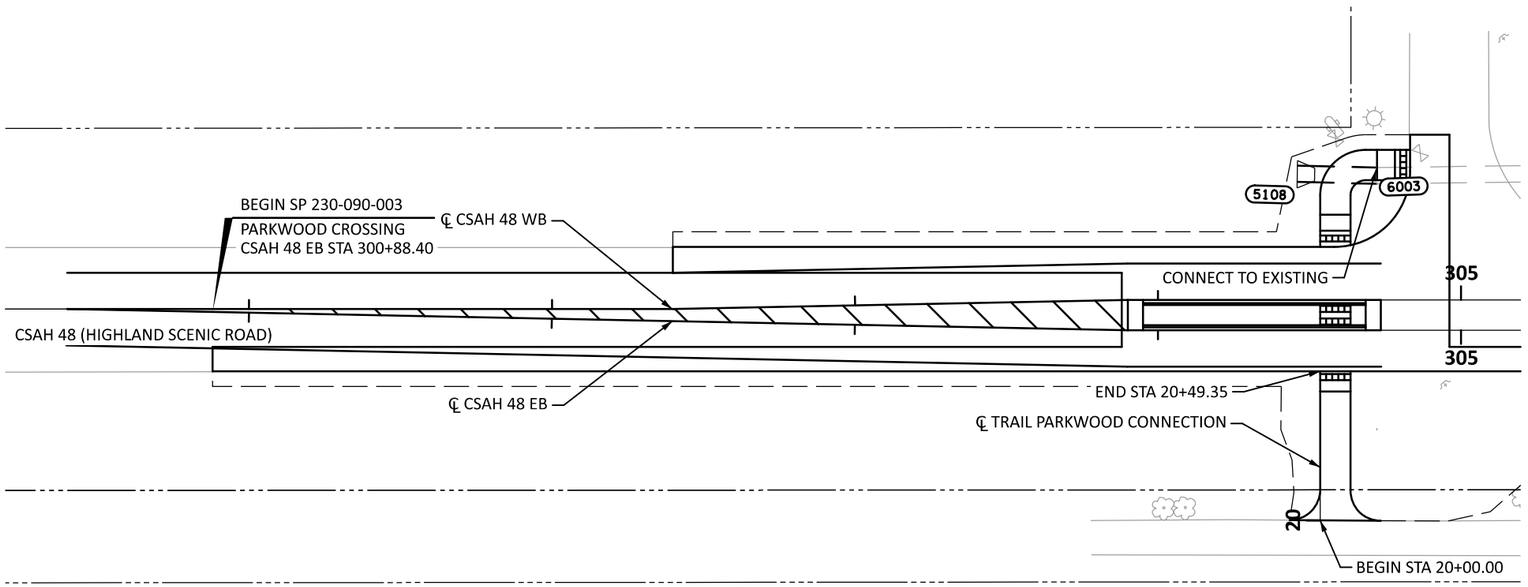
wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

DRAINAGE PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 69 of 100 Sheets



SCALE IN FEET
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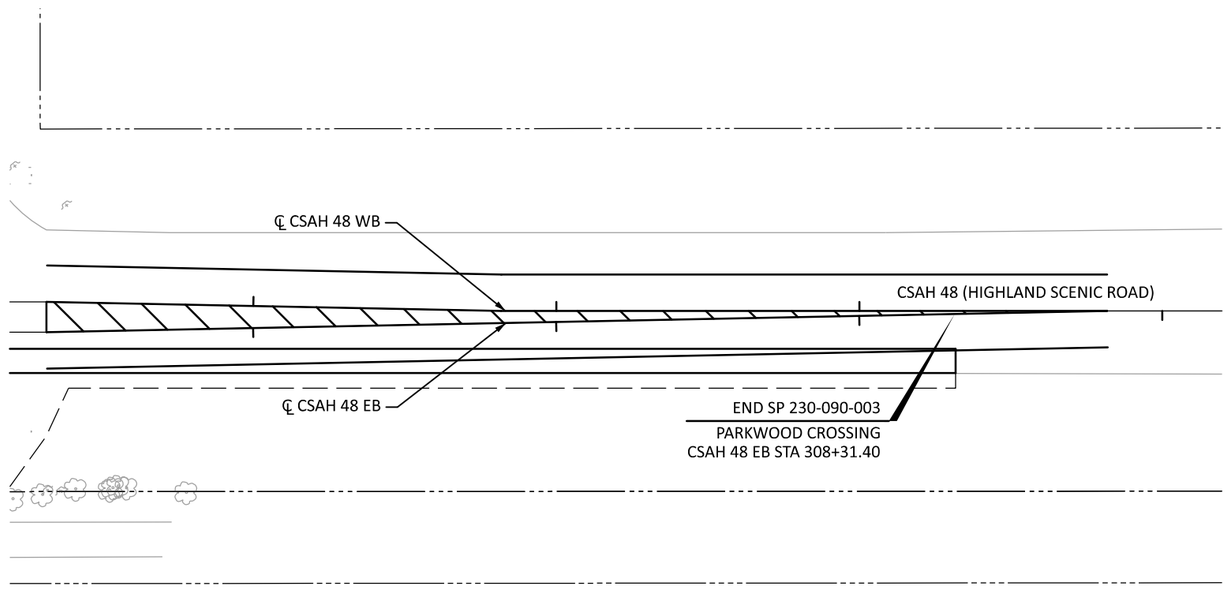


SCALE IN FEET
0 25 50

LEGEND

- CATCH BASIN/DROP INLET
- MANHOLE
- APRON
- STRUCTURE NUMBER (0000)
- STORM SEWER PIPE
- FLOW PATH
- CONSTRUCTION LIMITS
- EXISTING R/W
- NEW R/W
- TEMPORARY EASEMENT

DATE: 4/20/2026 TIME: 9:50:34 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Drainage\03_Sheets\026250-000-301drp-001.dgn

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

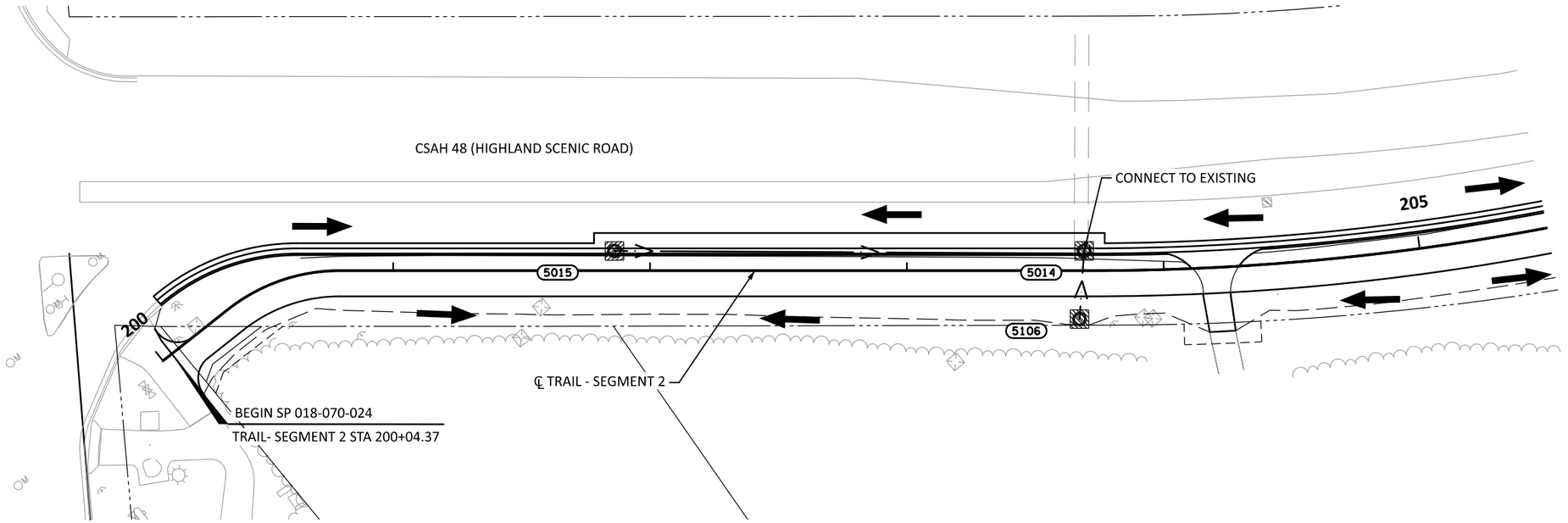
wsb

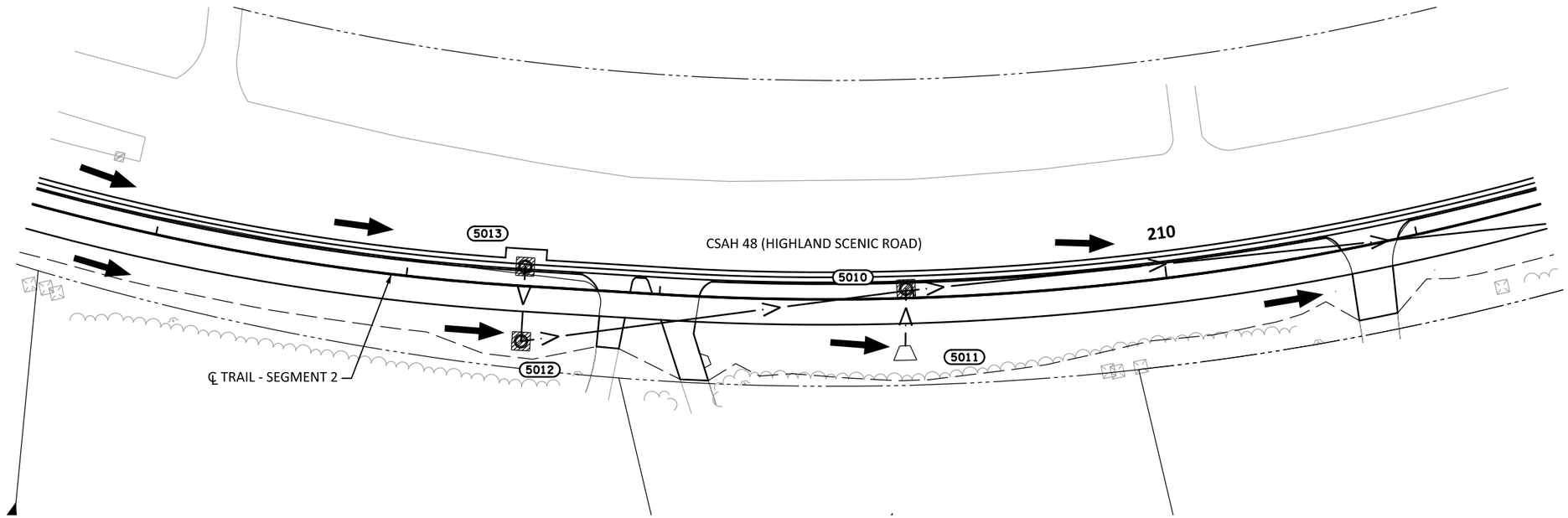
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

DRAINAGE PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 70 of 100 Sheets





LEGEND

- CATCH BASIN/DROP INLET
- MH — MANHOLE
- APRON
- 0000 — STRUCTURE NUMBER
- STORM SEWER PIPE
- FLOW PATH
- CONSTRUCTION LIMITS
- EXISTING R/W
- NEW R/W
- TEMPORARY EASEMENT

DRAWN BY: AS
DESIGNED BY: AS
CHECKED BY: EAE

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: EARTH EVANS, PE
DATE: 4/20/2026 LIC. NO. 44235

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City of Baxter
CSAH 48 Trail
Baxter, Minnesota

DRAINAGE PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 71 of 100 Sheets

DATE: 4/20/2026 TIME: 9:50:35 AM
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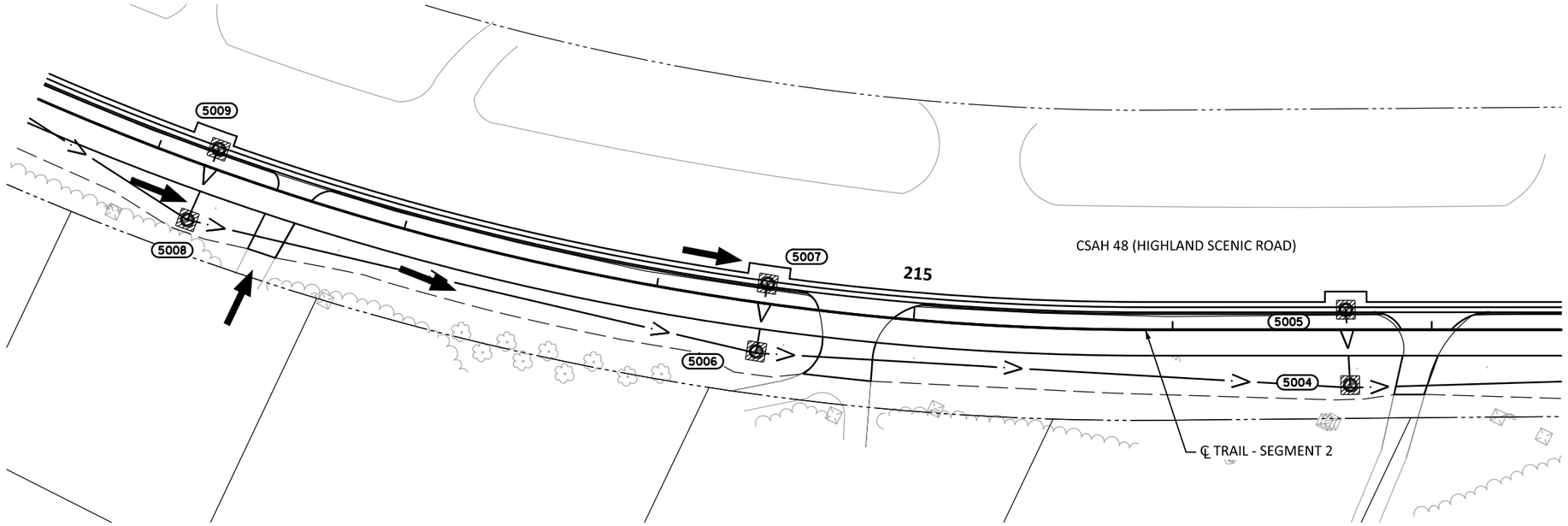

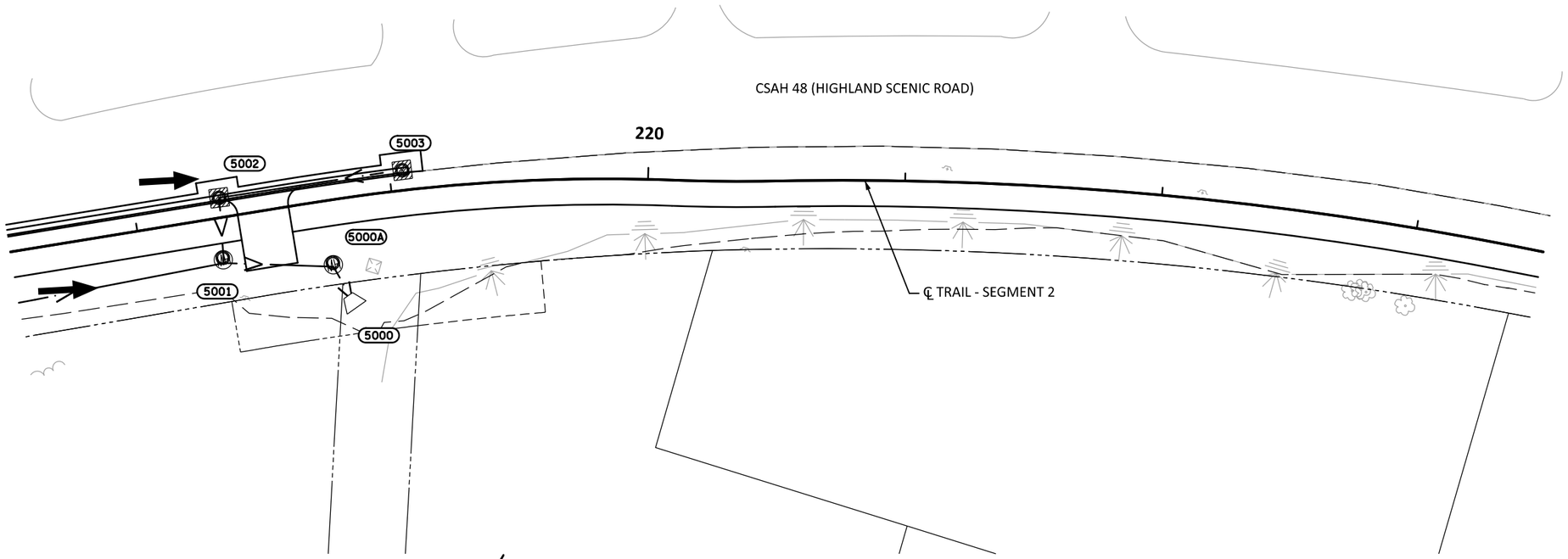

LEGEND

- CATCH BASIN/DROP INLET
- MANHOLE
- APRON
- 0000 STRUCTURE NUMBER
- STORM SEWER PIPE
- FLOW PATH
- CONSTRUCTION LIMITS
- EXISTING R/W
- NEW R/W
- TEMPORARY EASEMENT

DRAWN BY: AS
DESIGNED BY: AS
CHECKED BY: EAE

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: EARTH EVANS, PE
DATE: 4/20/2026 LIC. NO. 44235

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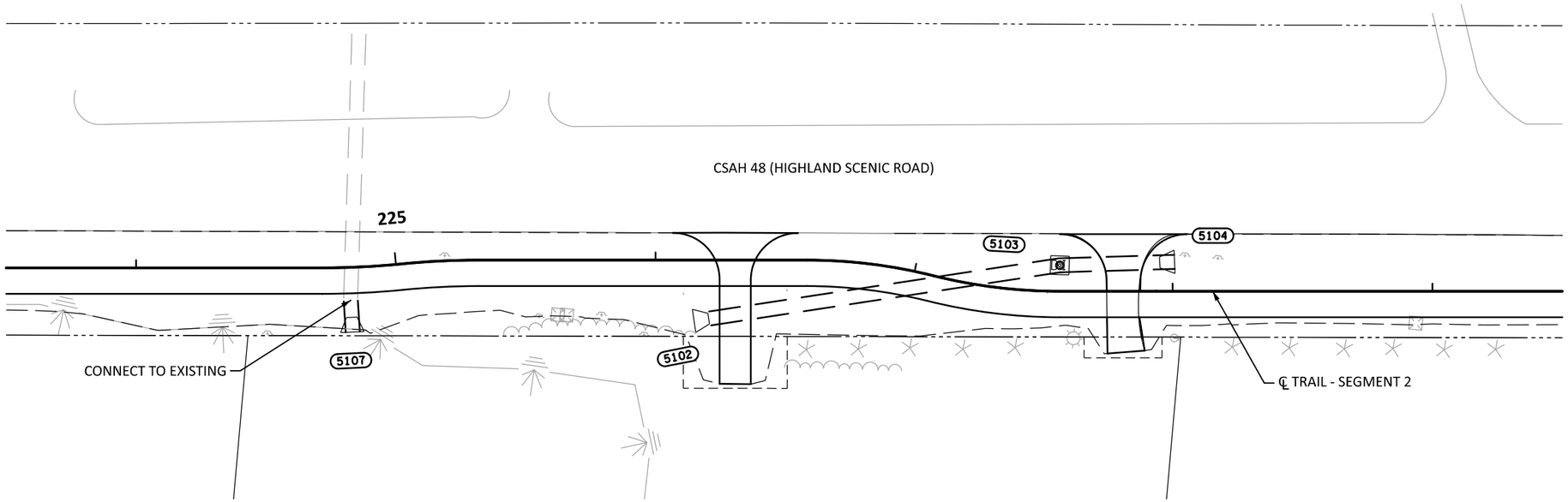
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

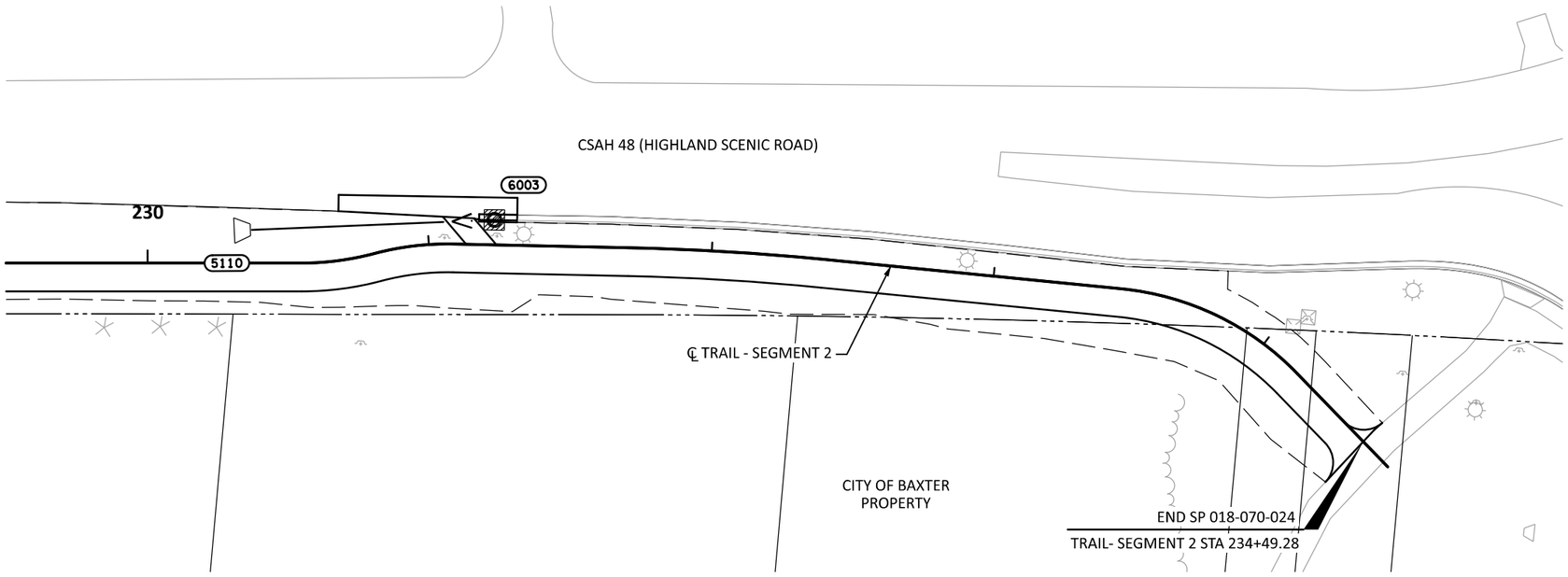
DRAINAGE PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 72 of 100 Sheets

DATE: 4/20/2026 TIME: 9:50:35 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Drainage\03_Sheets\026250-000-301drp-001.dgn





SCALE IN FEET
0 25 50

LEGEND

- CATCH BASIN/DROP INLET
- MANHOLE
- APRON
- 0000 STRUCTURE NUMBER
- STORM SEWER PIPE
- FLOW PATH
- CONSTRUCTION LIMITS
- EXISTING R/W
- NEW R/W
- TEMPORARY EASEMENT

DRAWN BY: AS
DESIGNED BY: AS
CHECKED BY: EAE

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: EARTH EVANS, PE
DATE: 4/20/2026 LIC. NO. 44235

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City of Baxter
CSAH 48 Trail
Baxter, Minnesota

DRAINAGE PLAN

SP 230-090-003 / SP 018-070-024
Sheet No. 73 of 100 Sheets

DATE: 4/20/2026 TIME: 9:50:36 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Drainage\03_Sheets\026250-000-301drp-001.dgn

DRAINAGE STRUCTURE SUMMARY		G
ITEM	UNIT	TOTALS
CONST DRAINAGE STRUCTURE DES H	LIN FT	19.6
CONST DRAINAGE STRUCTURE DES 48-4020	LIN FT	25.6
CONST DRAINAGE STRUCTURE DES SD-48	LIN FT	10.2
CONST DRAINAGE STRUCTURE DES SD-60	LIN FT	3.2
CONST DRAINAGE STRUCTURE DES SPEC 1	LIN FT	9.5
CASTING ASSEMBLY	EACH	16

STORM SEWER SUMMARY		H
ITEM	UNIT	TOTALS
12" RC PIPE SEWER DESIGN 3006 CLASS V	LIN FT	86
15" RC PIPE SEWER DESIGN 3006 CLASS V	LIN FT	1573
12" RC PIPE APRON	EACH	1
15" RC PIPE APRON	EACH	2
CONNECT TO EXISTING	EACH	1

CULVERT SUMMARY				I
ITEM	UNIT	SP 230-090-003 SUBTOTAL	SP 018-070-024 SUBTOTAL	TOTAL
15" CS PIPE CULVERT CLASS V	LIN FT	20		20
15" RC PIPE CULVERT DESIGN 3006 CLASS V	LIN FT		174	174
24" RC PIPE CULVERT DESIGN 3006 CLASS V	LIN FT	19	32	51
CONST DRAINAGE STRUCTURE DES H	LIN FT		1.9	2
CONST DRAINAGE STRUCTURE DES I	LIN FT		1.9	2
15" RC PIPE APRON	EACH		2	2
15" CS PIPE APRON	EACH	1		1
24" RC PIPE APRON	EACH	1	1	2
CONNECT TO EXISTING	EACH	1	1	2
CASTING ASSEMBLY	EACH		2	2

ASSEMBLY	RING OR FRAME	COVER OR GRATE	CURB BOX	STANDARD PLATE NUMBER	USE	TOTALS
B - 4	802A			4129	CB	1
		815		4153		
			823A	4160		
B - 5	802A			4129	CB	7
		816		4154		
			823A	4160		
M - 11	ROUND			4143	DI	6
	CONC	731		4143		

DATE: 4/20/2026 TIME: 9:50:45 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Drainage\03_Sheets\026250-000-302drt-prof-001

DRAWN BY:	GW
DESIGNED BY:	GW
CHECKED BY:	EAE

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: EARTH EVANS, PE
DATE: 4/20/2026 LIC. NO. 44235

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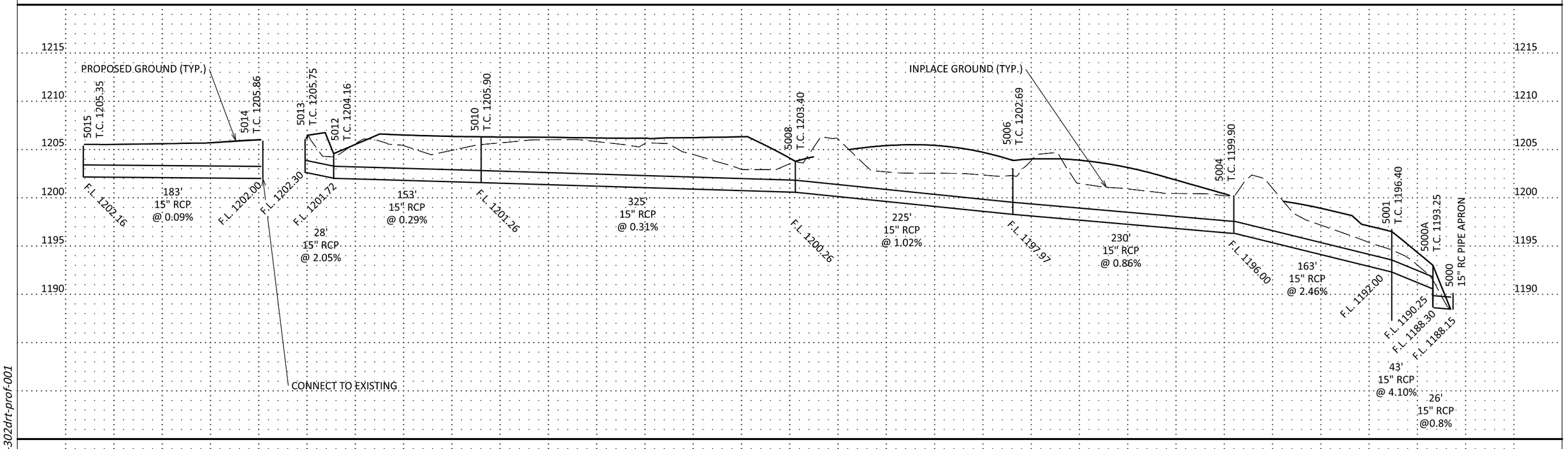
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

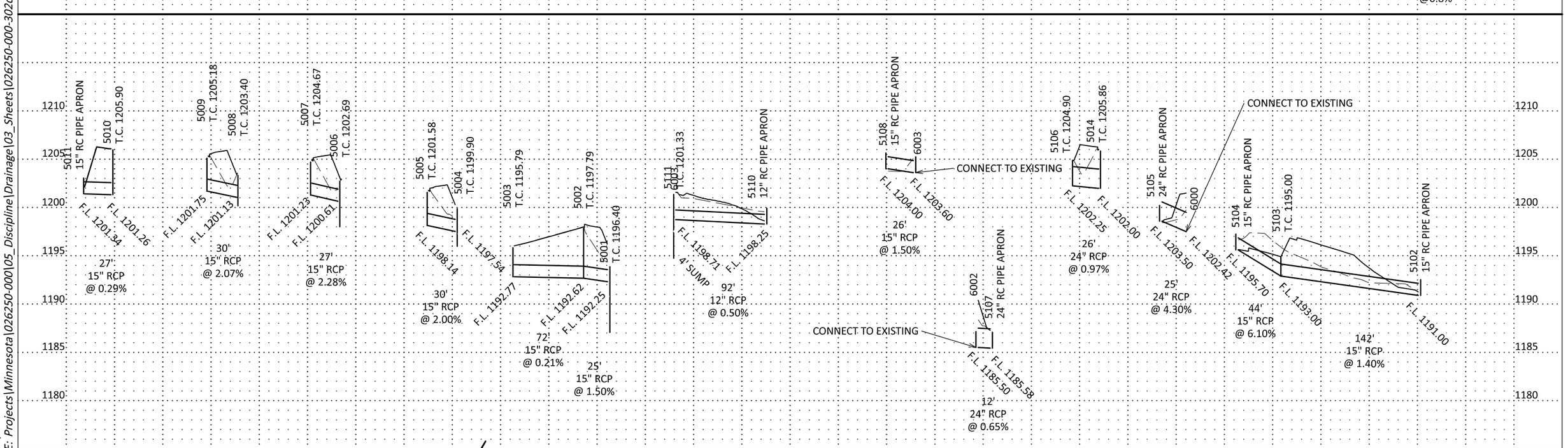
DRAINAGE PLAN
SUMMARY TABULATIONS

SP 230-090-003 / SP 018-070-024
Sheet No. 74 of 100 Sheets

GENERAL NOTES:
-STATIONS, OFFSETS, AND ELEVATIONS ARE GIVEN TO:
-END OF APRON FOR ALL CONCRETE APRONS.
-CENTER OF GRATE FOR ALL STORM STRUCTURES.
-PIPE LENGTHS IN TABULATION EXCLUDES APRON LENGTH. PIPE LENGTH IN PROFILE INCLUDES APRON LENGTH.
-PAY HEIGHTS ARE FROM BOTTOM OF CASTING TO INVERT PLUS 0.7'

GENERAL NOTES (CONTINUED):
-ALL RC PIPE 18" OR LESS ARE CLASS V. ALL RC PIPE GREATER THAN 18" ARE CLASS III UNLESS OTHERWISE NOTED.
-TIE ALL PIPE JOINTS FOR CULVERTS AND SEWER PIPES FROM APRONS TO FIRST STRUCTURE (INCIDENTAL)
-FLOWLINE (F.L.) ELEVATIONS ON PROFILES ARE AT CENTER OF STRUCTURE. PIPE INLET AND OUTLET ELEVATIONS ON TABULATIONS ARE CENTER OF STRUCTURE.





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DESIGNED BY:	GW
CHECKED BY:	EAE

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SIGNATURE:
PRINTED NAME: EARTH EVANS, PE
DATE: 4/20/2026 LIC. NO. 44235

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

DRAINAGE PLAN
PROFILES

SP 230-090-003 / SP 018-070-024

DRAINAGE TABULATION

STRUCTURE NUMBER		STRUCTURE LOCATION			PAY HEIGHT					CASTING ASSEMBLY TYPE	STEPS REQ'D	TOP OF CASTING ELEV	FLOWS FROM PIPE OUTLET ELEV	FLOWS TO PIPE INLET ELEV	PIPE SLOPE (%)	12" RC PIPE SEWER DES 3006 CL V	15" RC PIPE SEWER DES 3006 CL V	12" RC PIPE APRON	15" RC PIPE APRON	CONNECT TO EXISTING	GUIDE POSTS TYPE B	REMARKS
FLOWS FROM	FLOWS TO	ALIGN.	STATION	OFFSET	H	48-4020	SD-48	SD-60	SPEC 1													
					LIN FT	LIN FT	LIN FT	LIN FT	LIN FT							LIN FT	LIN FT	EACH	EACH	EACH	EACH	
5111	5110	TRAIL - SEG 2	231+23.0	8.8L		6.5				B - 5	YES	1201.33	1194.71	1198.25	0.5%	86						
5110		TRAIL - SEG 2	230+30.7	11.5L									1198.25					1			1	
5015	5014	TRAIL - SEG 2	201+86.1	7.7L	3.1					B - 4		1205.35	1202.16	1202.00	0.1%		183					
5014		TRAIL - SEG 2	203+69.0	7.7L			3.8			B - 5		1205.86	1202.00							1		
5013	5012	TRAIL - SEG 2	207+46.4	7.7L	3.4					B - 5		1205.75	1202.30	1201.72	2.1%		28					
5012	5010	TRAIL - SEG 2	207+46.6	20.7R			2.5			M - 11		1204.16	1201.71	1201.26	0.3%		153					
5011	5010	TRAIL - SEG 2	208+96.0	24.4R									1201.34	1201.26	0.3%		21		1			
5010	5008	TRAIL - SEG 2	208+97.1	3.7L		4.8				A - 7D	YES	1205.90	1201.26	1200.26	0.3%		325					
5009	5008	TRAIL - SEG 2	212+22.2	7.7L	3.4					B - 5		1205.18	1201.75	1201.13	2.1%		30					
5008	5006	TRAIL - SEG 2	212+20.0	22.1R				3.2		M - 11		1203.40	1200.26	1197.97	1.0%		225					
5007	5006	TRAIL - SEG 2	214+42.2	7.7L	3.4					B - 5		1204.67	1201.23	1200.61	2.3%		27					
5006	5004	TRAIL - SEG 2	214+41.4	18.7R		4.7				M - 11	YES	1202.69	1197.97	1196.00	0.9%		230					
5005	5004	TRAIL - SEG 2	216+66.9	7.7L	3.4					B - 5		1201.58	1198.14	1197.54	2.1%		30					
5004	5001	TRAIL - SEG 2	216+68.6	21.4R			3.9			M - 11		1199.90	1196.00	1192.00	2.5%		163					
5003	5002	TRAIL - SEG 2	219+05.1	7.8L	2.9					B - 5		1195.79	1192.77	1192.62	0.2%		72					
5002	5001	TRAIL - SEG 2	218+33.4	7.7L		5.1				B - 5	YES	1197.79	1192.62	1192.25	1.5%		25					
5001	5000A	TRAIL - SEG 2	218+31.2	16.4R					9.5	A - 7D	YES	1196.40	1187.00	1190.25	4.1%		43				1	A
5000A	5000	TRAIL - SEG 2	218+73.4	25.1R		4.5				A - 7D		1192.70	1188.30	1188.15			18				1	
5000		TRAIL - SEG 2	218+80.0	42.9R									1188.15						1		1	
				SP 018-070-024	19.6	25.6	10.2	3.2	9.5							86	1573	1	2	1	4	

CULVERT TABULATION

STRUCTURE NUMBER		STRUCTURE LOCATION			PAY HEIGHT		CASTING ASSEMBLY TYPE	TOP OF CASTING ELEV	FLOWS FROM PIPE OUTLET ELEV	FLOWS TO PIPE INLET ELEV	PIPE SLOPE (%)	15" RC PIPE CULVERT DES 3006 CL V	24" RC PIPE CULVERT DES 3006 CL V	15" CS PIPE CULVERT CL V	15" RC PIPE APRON	15" CS PIPE APRON	24" RC PIPE APRON	CONNECT TO EXISTING	GUIDE POSTS TYPE B	REMARKS
FLOWS FROM	FLOWS TO	ALIGN.	STATION	OFFSET	H	I														
					LIN FT	LIN FT						LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	EACH	EACH	
5108	6003	CSAH 48 WB	304+46.1	41.5L					1204.00		1.5%			20		1		1	1	
5105	6000	TRAIL - CONN	10+25.3	28.3R					1203.50				19				1		1	
			SP 230-090-003 SUBTOTAL										19.0	20.0		1	1	1	2	
6002	5107	TRAIL - SEG 2	224+82.1	12.7R						1185.50	0.5%		6					1		
5107		TRAIL - SEG 2	224+82.3	24.9R					1185.50								1		1	
5106	5014	TRAIL - SEG 2	203+67.2	18.9R		1.9	M - 11	1204.90	1202.25	1202.02	1.0%		26						1	
5104	5103	TRAIL - SEG 2	228+00.8	11.4L					1195.70	1193.00	6.1%	38			1				1	
5103	5102	TRAIL - SEG 2	227+56.6	10.0L	1.9		M - 11	1195.00	1193.00	1191.00	1.4%	136							1	
5102		TRAIL - SEG 2	226+14.9	23.5R					1191.00						1				1	
				SP 018-070-024 SUBTOTAL	1.9	1.9						174.0	32.0		2		1	1	5	
				TOTAL	1.9	1.9						174.0	51.0	20.0	2	1	2	2	7	

GENERAL NOTES:
-STATIONS, OFFSETS, AND ELEVATIONS ARE GIVEN TO:
-END OF APRON FOR ALL CONCRETE APRONS.
-CENTER OF GRATE FOR ALL STORM STRUCTURES.
-PIPE LENGTHS IN TABULATION EXCLUDES APRON LENGTH. PIPE LENGTH IN PROFILE INCLUDES APRON LENGTH.
-PAY HEIGHTS ARE FROM BOTTOM OF CASTING TO INVERT PLUS 0.7'

GENERAL NOTES (CONTINUED):
-ALL RC PIPE 18" OR LESS ARE CLASS V. ALL RC PIPE GREATER THAN 18" ARE CLASS III UNLESS OTHERWISE NOTED.
-TIE ALL PIPE JOINTS FOR CULVERTS AND SEWER PIPES FROM APRONS TO FIRST STRUCTURE (INCIDENTAL)
-FLOWLINE (F.L.) ELEVATIONS ON PROFILES ARE AT CENTER OF STRUCTURE. PIPE INLET AND OUTLET ELEVATIONS ON TABULATIONS ARE CENTER OF STRUCTURE.

REMARKS:
(A) PAY HEIGHT INCLUDES CONTECH CDS2025-5-C STRUCTURE OR APPROVED EQUAL

DATE: 4/20/2026 TIME: 9:50:49 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Drainage\03_Sheets\026250-000-302drt-prof-001

DRAWN BY: GW
DESIGNED BY: GW
CHECKED BY: EAE

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

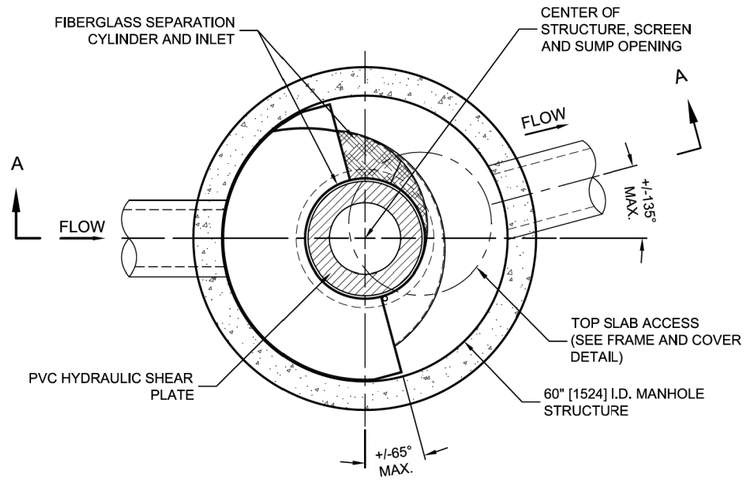
SIGNATURE:
PRINTED NAME: EARTH EVANS, PE
DATE: 4/20/2026 LIC. NO. 44235

wsb

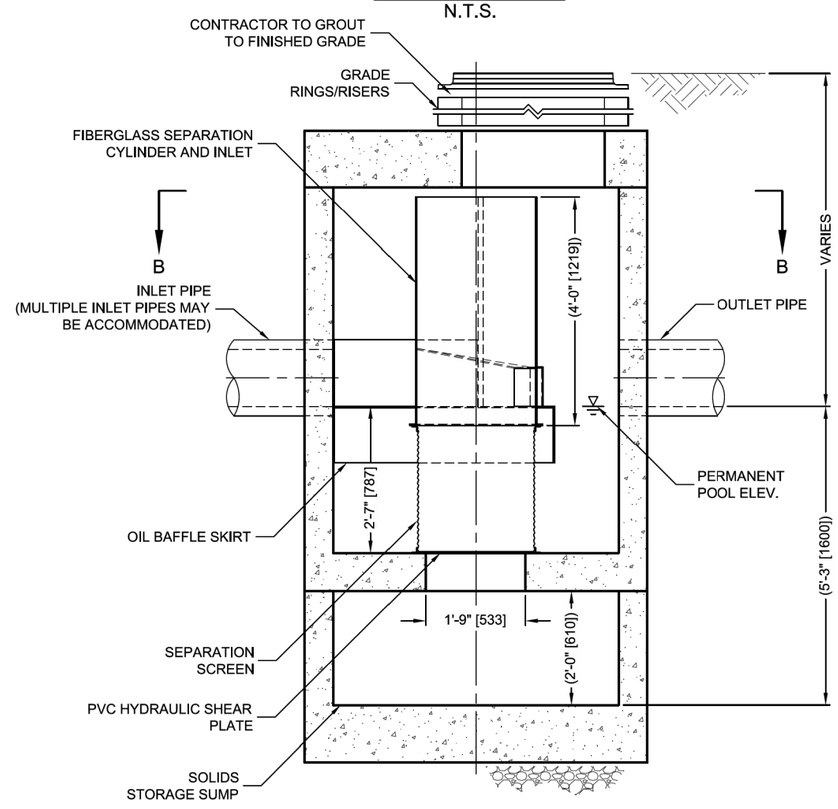
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

DRAINAGE PLAN
TABULATIONS

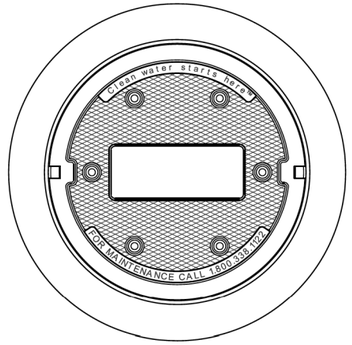
SP 230-090-003 / SP 018-070-024
Sheet No. 76 of 100 Sheets



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

GENERAL NOTES:
-SUPPLIER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED
-DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY
-HDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING
-STRUCTURE SHALL MEET AASHTO HS20 AND CASTING SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION.
-PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

DATE: 4/20/2026 TIME: 9:50:50 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Drainage\03_Sheets\026250-000-302drt-prof-001

DRAWN BY:	GW
DESIGNED BY:	GW
CHECKED BY:	EAE

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: EARTH EVANS, PE
DATE: 4/20/2026 LIC. NO. 44235

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

DRAINAGE PLAN
DETAILS: CDS STRUCTURE

SP 230-090-003 / SP 018-070-024

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

PROJECT NAME: CSAH 48 TRAIL **PROJECT NUMBER**: SP 230-090-003/SP 018-070-024; WSB 026250-000
PROJECT LOCATION: STREET: CSAH 48 (HIGHLAND SCENIC DR) CITY: BAXTER COUNTY: CROW WING

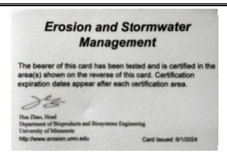
STATE: MINNESOTA ZIP: 56425 LATITUDE/LONGITUDE: 46.3323, -94.2778

THE PLANNED SCOPE OF THE PROJECT INCLUDES:
THE CITY OF BAXTER IS PROPOSING TO CONSTRUCT A TRAIL TO PROVIDE CONNECTION BETWEEN EXISTING SEGMENTS. THE FIRST SEGMENT WILL BE BEHIND EXISTING C&G AND WILL HAVE A RETAINING WALL IN ONE SPOT AND THEN IMPROVING THE CROSSINGS AT FOLEY RD AND AT PARKWOOD DR INTERSECTIONS WITH MEDIAN/PEDESTRIAN REFUGE. THE SECOND SEGMENT IS IN A RURAL SECTION, HALF OF WHICH BEING CONVERTED TO AN URBAN SECTION WITH C&G, STORM SEWER, AND A POND.

TENTATIVE CONSTRUCTION SCHEDULE (OPERATOR SHOULD PROVIDE ESTIMATED CONSTRUCTION SCHEDULE TO THE ENGINEER)	
CONSTRUCTION ACTIVITIES:	ESTIMATED DATES OF SOIL DISTURBANCE ACTIVITIES:
TEMPORARY SEDIMENT CONTROL BMPS & REMOVALS	APRIL 2027
GRADING & UTILITY WORK	MAY - AUG 2027
CURB & PAVEMENT	AUG - SEPT 2027
FINAL STABILIZATION	SEPT 2027

PROJECT PERSONNEL AND TRAINING

SWPPP DEVELOPER:
WSB (DUANE GACHNE)
3701 40TH AVE NW SUITE 100
ROCHESTER, MN, 55901
507-910-2983/DGACHNE@WSBENG.COM



CONTRACTOR TO PROVIDE CERTIFICATION OF EROSION CONTROL OFFICER AND ANY OTHER CREW MEMBERS WHO WILL WORK ON THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS BEFORE, DURING, AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA. PROVIDE PROOF OF CERTIFICATION AT THE PRECONSTRUCTION MEETING. WORK WILL NOT BE ALLOWED TO COMMENCE UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED TO THE PROJECT ENGINEER.

CHAIN OF RESPONSIBILITY

THE CITY OF BAXTER AND THE CONTRACTOR ARE CO-PERMITTEES FOR THE NPDES CONSTRUCTION GENERAL PERMIT. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION PERMIT AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA.

NAME	COMPANY	TITLE	PHONE/EMAIL
TREVOR WALTER	CITY OF BAXTER	OWNER CONTACT	763-683-7387/
		CONTRACTOR CONTACT	
		ON SITE ESC INSPECTOR	

CONTRACTOR TO COMPLETE

AGENCY CONTACTS

ORGANIZATION	CONTACT NAME	PHONE
MPCA (EMERGENCY) 24 HOUR	STATE DUTY OFFICER	1-800-422-0798
MPCA	DALE SOVA	218-316-3934
CROW WING COUNTY LGU	CHRIS PENCE	218-824-1124
ACOE	NORTH BRAINERD OFFICE	651-290-5765
MNDNR ECO/WATERS	JACOB FRIE	218-203-4367

LOCATION OF SWPPP REQUIREMENTS

THE REQUIRED SWPPP ELEMENTS MAY BE LOCATED IN MANY PLACES WITHIN THE PLAN SET AS WELL AS IN THE SPECIAL PROVISIONS, PROJECT MANUAL, MNDOT SPEC BOOK, OR ON FILE WITH THE PROJECT OWNER.

DESCRIPTION	LOCATION
TEMPORARY/PERMANENT EROSION CONTROL MEASURES	SHEET NO. 82 - 87
DIRECTION OF FLOW	SHEET NO. 69 - 73
CONSTRUCTION NOTES & STANDARD PLATES	SHEET NO. 12 , 13
DRAINAGE PLAN & CONSTRUCTION PLAN	SHEET NO. 53 - 58 , 69 - 73
BMP TABULATION	SHEET NO. 9
STORMWATER CALCULATIONS	DRAINAGE REPORT & HYDRAULIC REPORT. AVAILABLE UPON REQUEST

RECEIVING WATERS

A SPECIAL AND IMPAIRED WATERS SEARCH WAS COMPLETED USING THE MPCA SEARCH ENGINE ON 11/14/2025. BASED ON THIS REVIEW, THERE ARE NO SPECIAL IMPAIRED WATERS (WITH CONSTRUCTION RELATED IMPAIRMENTS) LOCATED WITHIN ONE MILE OF, AND DOWNSTREAM OF, PROJECT DISCHARGE POINTS. THE FOLLOWING IS A LIST OF RECEIVING WATERS WITHIN ONE MILE OF THE PROJECT:

WATERBODY	IMPAIRMENT(S)
PERCH LAKE	N/A
RUSH LAKE	N/A
ON SITE WETLANDS	N/A

AREAS OF ENVIRONMENTAL SENSITIVITY (AES) AND INFESTED WATERS

IN ADDITION TO THE LIST OF SPECIAL AND IMPAIRED WATERS, THE CONTRACTOR SHALL BE AWARE THAT THERE ARE WETLANDS AND EXISTING STORMWATER FACILITIES WITHIN AND NEAR THE PROJECT BOUNDARY. THERE IS A MAP OF KNOWN NATURAL RESOURCES ON THE LAST PAGE OF THE SWPPP NARRATIVE. AREAS OF ENVIRONMENTAL SENSITIVITY ARE ALSO CALLED OUT ON THE PLAN SHEETS.

SOIL TYPES

A PROJECT WIDE GEOTECHNICAL REPORT WAS COMPLETED DURING THE DESIGN PHASE. THE CROW WING COUNTY GEOLOGIC ATLAS INDICATES THE SURFICIAL GEOLOGY OF THE AREA IS MOSTLY GLACIAL DEPOSITS, CONSISTING OF FINE TO MEDIUM GRAINED SAND. AT DEPTHS GREATER THAN 10-FEET, INTERBEDDED LAYERS OF SILT AND CLAY MAY BE ENCOUNTERED. ADDITIONAL SOIL INFORMATION CAN BE FOUND IN THE GEOTECHNICAL REPORT, LOCATED WITHIN THE PROJECT SPECIFICATIONS. SOIL CLASSIFICATIONS FOR HIGHLY ERODIBLE LAND (HEL), POTENTIALLY HIGHLY ERODIBLE LAND (PHEL), AND NOT HIGHLY ERODIBLE LAND (NHEL) SOILS CAN BE FOUND ON *FIGURE 1. SWPPP RESOURCE MAP.*

NATIVE TOPSOIL WILL BE STRIPPED; IF MATERIAL NEEDS TO BE STOCKPILED, APPROPRIATE ACTION WILL TAKE PLACE TO ENSURE THE STOCKPILES HAVE ALL PROPER BMPS IN PLACE ACCORDING TO THIS SWPPP AND THE NPDES PERMIT.

ENVIRONMENTAL REVIEW

NO FORMAL ENVIRONMENTAL REVIEW WAS REQUIRED FOR THIS PROJECT.

WETLANDS: MITIGATION MEASURES ARE REQUIRED AS A RESULT OF WETLAND IMPACTS FROM THE PROJECT. A PROJECT WIDE WETLAND DELINEATION REPORT SHOWS ONE WETLAND WERE DELINEATED WITHIN THE PROJECT AREA USING THE LEVEL 2 METHOD. MITIGATION MEASURES HAVE BEEN ADDRESSED VIA WETLAND BANKING. ALL WETLAND AREAS WILL BE PROTECTED WITH PERIMETER CONTROL AND A 50' NATURAL BUFFER (IF INFEASIBLE, REDUNDANT PERIMETER CONTROL MEASURES), INCLUDED AREAS THAT ARE PERMITTED TO BE FILLED AND/OR EXCAVATED UNTIL WORK IN THE PERMITTED AREAS ARE NECESSARY. REDUNDANT BMP MEASURES MUST BE PLACED 5' FROM THE INITIAL PERIMETER CONTROL MEASURE WITH A STABILIZED BUFFER STRIP BETWEEN THE BMPS.

THREATENED/ENDANGERED SPECIES: CROW WING COUNTY LISTS THE GRAY WOLF AS THREATENED, THE MONARCH BUTTERFLY AS PROPOSED THREATENED, AND THE SUCKLEY'S CUCKOO BUMBLE BEE AS PROPOSED ENDANGERED SPECIES WITHIN THE COUNTY. BASED ON THE CONSTRUCTION ACTIVITIES, IT IS DETERMINED THAT THE PROJECT WILL HAVE NO EFFECT ON THESE SPECIES OR THEIR HABITATS. HOWEVER, IF THESE SPECIES ARE FOUND, CONTRACTOR TO STOP WORK IMMEDIATELY FOR FURTHER INVESTIGATION.

DRINKING WATER/WELLS: ACCORDING TO THE MDH, THE PROJECT IS LOCATED WITHIN THE BAXTER WELLHEAD PROTECTION AREA. IN ADDITION, THE PROJECT IS ALSO LOCATED IN THE BAXTER DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA). SPECIAL CARE MUST BE TAKEN WHEN PERFORMING WORK WITHIN THE WELLHEAD PROTECTION AREA AND DWSMAS REGARDING HAZARDOUS MATERIALS, INCLUDING, BUT NOT LIMITED TO: FUELING OPERATIONS, CONCRETE SLURRY/WASHOUT, CURING AGENTS, ETC. ALL SPILLS ARE TO BE CLEANED UP IMMEDIATELY UPON DISCOVERY.

CONTAMINATED PROPERTIES: THE MPCA'S "WHAT'S IN MY NEIGHBORHOOD" DATABASE WAS REVIEWED ON 11/14/2025. THE RESULTS OF THIS REVIEW SHOWS ONE (1) KNOWN PETROLEUM REMEDIATION, LEAK SITE LOCATED ADJACENT TO THE PROJECT ALIGNMENT: ID 194850. THE DEPTH OF THE FULL RECLAMATION IS NOT PROPOSED TO UNEARTH ANY CONTAMINATED SOIL, CONTAMINATED WATER, AND/OR REGULATED WASTE. REFER TO MNDOT SPEC 1717.1.A. FOR POTENTIAL INDICATORS OF CONTAMINATED MATERIALS AND REGULATED WASTE. IF CONTAMINATED MATERIAL, CONTAMINATED WATER, AND/OR REGULATED MATERIALS ARE FOUND, CREWS ARE TO STOP WORK IMMEDIATELY FOR FURTHER INVESTIGATION/TESTING.

FLOOD CONTINGENCY PLAN: PROJECT ACTIVITIES MAY OCCUR WITHIN THE 100-YEAR FLOODPLAIN OR FLOODWAY, THEREFORE, THE PROJECT ENGINEER (AT THEIR DISCRETION) MAY REQUIRE A PREVENTATIVE FLOOD CONTINGENCY PLAN FOR SPECIFIC PROJECT ACTIVITIES AND AREAS IF SEASONAL PRECIPITATION POSE A POTENTIAL RISK OF FLOODING WORK AREAS WITHIN THE PROJECT LIMITS. THIS PLAN SHALL BE SUBMITTED BY THE OPERATOR TO THE PROJECT ENGINEER FOR APPROVAL A MINIMUM OF 72 HOURS PRIOR TO THE SCHEDULED WORK AND/OR DURING ACTIVE WORK WITHIN THE FLOODPLAIN. NO WORK WITHIN THE FLOODPLAIN CAN COMMENCE UNTIL WRITTEN APPROVAL HAS BEEN GRANTED BY THE PROJECT ENGINEER.

FISH EXCLUSION DATES: NO IN-WATER WORK IS ANTICIPATED WITH THIS PROJECT, THEREFORE FISH EXCLUSION DATES DO NOT APPLY.

AQUATIC INVASIVE SPECIES: ALL DEWATERING EQUIPMENT SHALL BE DECONTAMINATED OF ALL AQUATIC PLANTS AND PROHIBITED INVASIVE SPECIES PRIOR TO USING WITHIN SURFACE WATERS ON-SITE AND TRANSPORTING OFF-SITE. ALL DECONTAMINATION ACTIVITIES SHALL MEET THE CHAPTER 1 STANDARDS OF THE MINNESOTA DNR'S BEST PRACTICES MANUAL FOR MEETING DNR GENERAL PUBLIC WATERS WORK PERMIT GP 2004-0001.

LAND FEATURE CHANGES

TOTAL AREA TO BE DISTURBED = 4.43 ACRES
IMPERVIOUS AREA: PRE-CONSTRUCTION = 0.74 ACRES/POST-CONSTRUCTION = 1.97 ACRES
NET INCREASE OF IMPERVIOUS AREA = 1.23 ACRES

LONG TERM MAINTENANCE AND OPERATION:
THE NPDES PERMANENT STORMWATER TREATMENT SYSTEM (PART 15.1) FROM THE NET NEW IMPERVIOUS SURFACES OF THE PROJECT IS PROVIDED IN ONSITE INFILTRATION AREAS. THE CITY OF BAXTER STAFF IS RESPONSIBLE FOR THE LONG-TERM MAINTENANCE AND OPERATION OF THE PERMANENT STORMWATER SYSTEM.
IF A FULL VOLUME REDUCTION IS INFEASIBLE WITHIN THE PROJECT LIMITS, PERMITTEE MUST DOCUMENT REASONS WITHIN THE SWPPP.

STABILIZATION TIME FRAMES

AREA	TIME FRAME	NOTES
EXPOSED AREAS	IMMEDIATELY AND NO LATER THAN 14 DAYS OF BEING UNWORKED	1, 4, 5
LAST 200 LINEAL FEET OF DRAINAGE DITCH/SWALE	WITHIN 24 HOURS OF CONNECTION TO SURFACE WATER/PROPERTY EDGE	1, 2, 3
REMAINING PORTIONS OF DRAINAGE DITCH OR SWALE	14 DAYS	1, 3
PIPE AND CULVERT OUTLETS	24 HOURS	
STOCKPILES	14 DAYS	1

1. INITIATE STABILIZATION IMMEDIATELY WHEN CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE SITE. COMPLETE STABILIZATION WITHIN THE TIME FRAME LISTED. IN MANY INSTANCES THIS WILL REQUIRE STABILIZATION TO OCCUR MORE THAN ONCE DURING THE COURSE OF THE PROJECT. TEMPORARY SOIL STOCKPILES WITHOUT SIGNIFICANT CLAY OR SILT AND STOCKPILED AND CONSTRUCTED ROAD BASE ARE EXEMPT FROM THE STABILIZATION REQUIREMENT.
2. STABILIZE WETTED PERIMETER OF DITCH (I.E. WHERE THE DITCH GETS WET).

3. APPLICATION OF MULCH, HYDROMULCH, TACKIFIER AND POLYACRYLAMIDE ARE NOT ACCEPTABLE STABILIZATION METHODS IN THESE AREAS.
4. STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED WILL BE MULCHED OR BLANKETED WITHIN THE TIME FRAMES IN THE NPDES PERMIT.
5. TOPSOIL BERMS MUST BE STABILIZED TO BE CONSIDERED PERIMETER CONTROL BMPS. USE RAPID STABILIZATION METHOD 3. THE SEED MIX USED IN THE RAPID STABILIZATION MAY BE SUBSTITUTED AS FOLLOWS:
   A. SINGLE YEAR CONSTRUCTION BETWEEN MAY 1 - AUGUST 1, SEED WITH SEED MIX OATS (O)
   B. SINGLE YEAR CONSTRUCTION BETWEEN AUGUST 1 - OCTOBER 31, SEED WITH SEED MIX WINTER WHEAT (WW)
   C. MULTI YEAR TEMPORARY STABILIZATION TWO-YEAR COVER CROP (TCC)
6. KEEP DITCHES AND EXPOSED SOILS IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MULCHES, HYDROMULCHES, AND BLANKETS.

SITE INSPECTION AND MAINTENANCE

THE EROSION CONTROL OFFICER IS TO INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. THE OPERATOR SHALL PROVIDE A RAINFALL GAUGE ON-SITE AT VARIOUS MILE INTERVALS ALONG THE ALIGNMENT. INSPECT ALL TEMPORARY AND PERMANENT PROJECT BMPS UNTIL THE SITE HAS UNDERGONE FINAL STABILIZATION AND THE NOT HAS BEEN SUBMITTED. INSPECT SURFACE WATER INCLUDING DRAINAGE DITCHES FOR SIGNS OF EROSION AND SEDIMENT DEPOSITION. INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF TRACKING ONTO PAVED SURFACES. INSPECT SURROUNDING PROPERTIES FOR EVIDENCE OF OFF-SITE SEDIMENT ACCUMULATION. INSPECT INFILTRATION AREAS FOR SIGN OF SEDIMENT DEPOSITION AND COMPACTIONS (TO ENSURE THAT EQUIPMENT IS NOT BEING DRIVEN ACROSS THE AREA). ALL INSPECTIONS AND MAINTENANCE CONDUCTED MUST BE RECORDED IN WRITING BY THE OPERATOR AND RETAINED WITH THE SWPPP. SUBMIT INSPECTION REPORTS IN A FORMAT THAT IS ACCEPTABLE TO THE PROJECT ENGINEER. RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY SHALL INCLUDE:

A. DATE, TIME, AND NAME OF PERSON(S) CONDUCTING INSPECTIONS;
B. FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS;
C. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); INCLUDING DOCUMENTATION/PHOTOS OF IMPLEMENTED BMPS INTENDED TO CORRECT A PROBLEM BUT FAILED.
D. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCHES IN 24 HOURS;
E. DOCUMENTATION OF CHANGES MADE TO THE SWPPP.

REPLACE, REPAIR OR SUPPLEMENT ALL NONFUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY UNLESS LISTED DIFFERENTLY BELOW:

A. REPAIR, REPLACE, OR SUPPLEMENT PERIMETER CONTROL DEVICES WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT OF THE DEVICE. COMPLETE REPAIRS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY.
B. REPAIR OR REPLACE INLET PROTECTION DEVICES WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT AND/OR DEPTH OF THE DEVICE.
C. DRAIN AND REMOVE SEDIMENT FROM TEMPORARY AND PERMANENT SEDIMENT BASINS ONCE THE SEDIMENT HAS REACHED 1/2 THE STORAGE VOLUME. COMPLETE WORK WITHIN 72 HOURS OF DISCOVERY.
D. REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. STABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL OPERATIONS. SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS OF DISCOVERY.
E. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE WITHIN ONE (1) CALENDAR DAY OF DISCOVERY. STREET SWEEPING MAY HAVE TO OCCUR MORE OFTEN TO MINIMIZE OFF SITE IMPACTS. LIGHTLY WET THE PAVEMENT PRIOR TO SWEEPING.
F. MAINTAIN ALL BMPS UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION, AND THE NOT HAS BEEN SUBMITTED TO THE MPCA.

CONSTRUCTION ACTIVITY REQUIREMENTS: EROSION/SEDIMENT CONTROL, PROCEDURES, & MAINTENANCE STANDARDS

1. AMEND THE SWPPP AND DOCUMENT ALL CHANGES TO THE SWPPP AND ASSOCIATED PLAN SHEETS WITHIN 7 DAYS. SWPPP AMENDMENTS AND SITE PLANS WILL BE PREPARED BY THE OPERATOR AND SUBMITTED TO THE OWNER FOR REVIEW AND WRITTEN APPROVAL BY THE PROJECT OWNER (OR DESIGNATED REPRESENTATIVE). STORE THE SWPPP AND ALL AMENDMENTS ON SITE AT ALL TIMES.
2. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR THE ENGINEER'S ACCEPTANCE FOR STAGING/STOCKPILE MANAGEMENT AREAS, CONCRETE MANAGEMENT, CONCRETE SLURRY APPLICATION AREAS, FUGITIVE DUST CONTROL PLAN, SPILL CONTAINMENT PLAN, HAZARDOUS MATERIAL MANIFEST & MANAGEMENT PLAN, WETLAND MANAGEMENT PLAN, VEGETATION PRESERVATION & MAINTENANCE PLAN, WORK IN AND NEAR AREAS OF ENVIRONMENTAL SENSITIVITY, AREAS IDENTIFIED IN THE PLANS AS "SITE MANAGEMENT PLAN AREA", ANY WORK THAT WILL REQUIRE DEWATERING, ANY ADDITIONAL PLANS LISTED IN THE PROJECT SPECIFICATIONS, AND AS REQUIRED BY THE ENGINEER. SUBMIT ALL SITE MANAGEMENT PLANS TO THE ENGINEER IN WRITING. ALLOW A MINIMUM OF 7 DAYS FOR PROJECT ENGINEER TO REVIEW AND ACCEPT SITE MANAGEMENT PLAN SUBMITTALS. WORK WILL NOT BE ALLOWED TO COMMENCE IF A SITE MANAGEMENT PLAN IS REQUIRED UNTIL ACCEPTANCE HAS BEEN GRANTED BY THE ENGINEER. THERE WILL BE NO EXTRA TIME ADDED TO THE CONTRACT DUE TO THE UNTIMELY SUBMITTAL.
3. THERE IS NO CONSTRUCTION PHASING OR STAGING DEFINED BY THE OWNER FOR THIS PROJECT. THE SCHEDULE FOR INSTALLING TEMPORARY BMPS SHALL BE INCORPORATED INTO THE OPERATOR'S WEEKLY SCHEDULE FOR EACH CONSTRUCTION STAGE AND PRESENTED TO THE OWNER'S REPRESENTATIVE
4. BURNING OF ANY MATERIAL IS NOT ALLOWED WITHIN PROJECT BOUNDARY.
5. DO NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS NOT TO BE DISTURBED AND WETLANDS (EVEN AREAS THAT ARE PERMITTED FOR CONSTRUCTION) PRIOR TO STARTING GROUND DISTURBING ACTIVITIES. IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS, OBTAIN WRITTEN PERMISSION FROM THE PROJECT ENGINEER PRIOR TO PROCEEDING. PRESERVE ALL NATURAL BUFFERS SHOWN ON THE PLANS.
6. ROUTE STORMWATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER FEASIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES AS NEEDED TO KEEP CHANNELS FROM ERODING AND TO PREVENT NUISANCE CONDITIONS AT THE OUTLET.
7. DIRECT DISCHARGE FROM BMPS TO VEGETATED AREAS WHENEVER FEASIBLE. PROVIDE VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT EROSION.
8. LOCATE PERIMETER CONTROL ON THE CONTOUR TO CAPTURE OVERLAND, LOW-VELOCITY SHEET FLOWS DOWN GRADIENT OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. PLACE J-HOOKS AT A MAXIMUM OF 100-FOOT INTERVALS.
9. ALL STOCKPILES MUST HAVE PERIMETER SEDIMENT CONTROLS IMPLEMENTED AND MAINTAINED AT ALL TIMES AND SHOULD BE INSTALLED PRIOR TO INITIATION OF STOCKPILING. PILES CANNOT BE PLACED IN BUFFER AREAS OR SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS AND DITCHES UNLESS THERE IS A BYPASS IN PLACE TO PREVENT STORMWATER RUN-ON INTO THE STOCKPILE.
10. STEEP SLOPES MAY BE TEMPORARILY CREATED DURING GRADING OPERATIONS. STABILIZATION OF STEEP SLOPES (3:1 OR GREATER) SHALL BE PROPERLY CAT-TRACKED AND STABILIZED PER THE EROSION CONTROL PLAN. LONG SLOPES CAN BE BROKEN UP WITH SEDIMENT CONTROL LOGS IF EROSION IS EVIDENT.
11. DITCH CHECKS WILL BE PLACED AS INDICATED ON THE PLANS DURING ALL PHASES OF CONSTRUCTION.
12. ALL STORM DRAIN INLETS, THAT RECEIVE PROJECT STORMWATER, MUST BE PROTECTED BY APPROPRIATE BMPS DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED. INLET PROTECTION MAY BE REMOVED FOR A PARTICULAR INLET IF A SPECIFIC SAFETY CONCERN (STREET FLOODING/FREEZING) HAS BEEN IDENTIFIED AND THE PERMITTEE(S) HAS RECEIVED WRITTEN CORRESPONDENCE FROM THE JURISDICTIONAL AUTHORITY VERIFYING THE NEED FOR REMOVAL. WRITTEN CORRESPONDENCE MUST BE DOCUMENTED IN THE SWPPP.
13. SILT FENCE IS NOT AN ACCEPTABLE CATCH BASIN INLET PROTECTION BMP. CONTACTOR SHALL CLEAN, REMOVE AND DISPOSE OF SEDIMENT, AND/OR REPLACE STORM DRAIN INLET PROTECTION ON A ROUTINE BASIS TO ENSURE THE DEVICE IS FULLY FUNCTIONAL PRIOR TO THE NEXT FORECASTED PRECIPITATION EVENT (30% OR GREATER).
14. DISCHARGE TURBID OR SEDIMENT LADEN WATER TO TEMPORARY SEDIMENT BASINS WHENEVER FEASIBLE. IN THE EVENT THAT IT IS NOT FEASIBLE TO DISCHARGE THE SEDIMENT LADEN WATER TO A TEMPORARY SEDIMENT BASIN, THE WATER MUST BE TREATED SO THAT IT DOES NOT CAUSE A NUISANCE CONDITION IN THE RECEIVING WATERS OR TO DOWNSTREAM LANDOWNERS. CLEAN OUT ALL PERMANENT STORMWATER BASINS REGARDLESS OF WHETHER USED AS TEMPORARY SEDIMENT BASINS/TRAPS TO THE DESIGN CAPACITY AFTER COMPLETING ALL UP-GRADIENT LAND DISTURBING ACTIVITY. USE A SKIMMER DEVICE FOR BASIN DRAINING.
15. PROVIDE STABILIZATION IN ANY TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES.
16. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN AND NARRATIVE TO THE PROJECT ENGINEER FOR APPROVAL 7 DAYS PRIOR TO UNDERTAKING THESE ACTIVITIES. DEWATERING PLAN MUST INCLUDE BMP'S TO PREVENT SEDIMENT TRANSPORT, EROSION, AND ADVERSE IMPACTS TO DOWNSTREAM RECEIVING WATERS. THE DEWATERING PLAN MUST ALSO INCLUDE ANY SPECIFIC CHEMICAL TREATMENTS (FLOC, POLYMERS, ETC.) THAT WILL BE USED. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY PERMIT NECESSARY FOR THESE ACTIVITIES; THE DEWATERING PLAN AND DNR APPROPRIATIONS PERMIT WILL BECOME PART OF THE SWPPP. THE CONTRACTOR SHALL VISUALLY CHECK AND PHOTOGRAPH THE DISCHARGE AT THE BEGINNING AND AT LEAST ONCE EVERY 24 HOURS OF OPERATION TO ENSURE ADEQUATE TREATMENT HAS BEEN OBTAINED AND NUISANCE CONDITIONS WILL NOT RESULT FROM THE DISCHARGE.

TEMPORARY & PERMANENT EROSION CONTROL BMPS

SEED MIX: SEED MIX SHALL BE USED IN CONSTRUCTION AND REVEGETATION PROJECTS IN ORDER TO ENHANCE SOIL NUTRIENT AVAILABILITY AND BIOLOGICAL SOIL STRUCTURE, ENCOURAGE NATIVE PLAN SUCCESSION, REDUCE EROSION, AND DISCOURAGE INVASIVE PLANT SPECIES. INOCULATION OF SOILS WITH MYCORRHIZAL FUNGI OR THE PRESENCE OF PRE-EXISTING SOIL MICROBES IS ESSENTIAL FOR THE STABILIZATION OF ADVERSE SOILS, ESTABLISHMENT OF NATIVE GRASSES, AND THE EXCLUSION OF NON-NATIVE "ANNUALS" AND NOXIOUS WEEDS.

EROSION CONTROL BLANKET: EROSION CONTROL BLANKETS (ECBS) ARE A SOIL STABILIZATION (EROSION CONTROL) BMP, INTENDED TO PROTECT DISTURBED SOIL SURFACES FROM RAINDROP IMPACT EROSION. ECBS ARE CARPET-LIKE MATS, INSTALLED OVER AND ANCHORED TO THE PROPERLY PREPARED SOIL SURFACES. PROPERLY SELECTED AND INSTALLED, ECBS CAN MIMIC THE BENEFICIAL EFFECTS OF VEGETATIVE COVER THEREBY REDUCING EROSION RATES BY OVER 90%. ECBS ALSO PROTECT SEEDS AND PROVIDE A BENEFICIAL ENVIRONMENT FOR VEGETATION TO BECOME ESTABLISHED. CONTRACTOR SHALL VERIFY DURING REGULAR INSPECTIONS THAT NO GULLIES, RILLS, OR SCOUR HOLES HAVE FORMED UNDER EROSION CONTROL BLANKETS AND MATS AND CORRECT ALL ERODED AREAS WITHIN 14 DAYS. ALL REPAIRS MUST BE COMPLETED WITHIN 24 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.

STRAW MULCHING: DISTURBED SOIL AREAS SHALL BE PROTECTED WITH STRAW MULCH. MULCHING IS THE APPLICATION OF A PROTECTIVE LAYER OF STRAW OR OTHER SUITABLE MATERIAL TO THE SOIL SURFACE. STRAW MULCH SHALL BE USED IN CONJUNCTION WITH SEEDING AND HYDRO-SEEDING FOR ESTABLISHMENT OF VEGETATION. STRAW MULCH MUST BE SECURED TO THE GROUND USING DISKING OR AN OVERSPRAY OF AN HECP. MULCHING IS COMMONLY USED AS A TEMPORARY MEASURE TO PROTECT BARE OR DISTURBED SOIL AREAS THAT HAVE NOT BEEN SEEDED, UNTIL NATIVE VEGETATION RE-GROWS. CERTIFIED WEED-FREE MULCH MUST BE USED WHEN USING NATIVE SEED MIXES OR WHEN WORKING NEAR ENVIRONMENTALLY SENSITIVE AREAS.

HYDRAULIC MATRICES: HYDRAULIC MATRICES ARE EROSION CONTROL PRODUCTS THAT ARE USED TO STABILIZE EXPOSED SOILS. THESE MATRICES ARE APPLIED IN A SLURRY, PRODUCED BY MIXING FIBER, WATER AND A BINDING AGENT TOGETHER IN A MECHANICAL HYDRO-SEEDER. WOOD FIBER IS WIDELY USED BUT OTHER FIBERS CAN INCLUDE PAPER, STRAW, COIR, CORN, ETC. THE EFFECTIVENESS OF THESE HYDRAULIC MATRICES ARE DEPENDENT ON:

- PROPER SOIL PREPARATION
- APPLICATION RATES (DEPENDENT ON THE MANUFACTURERS RECOMMENDATIONS)
- THE TYPE OF FIBERS USED
- THE TYPE OF BOND AGENT(S) ADDED

THESE HYDRAULIC MATRICES ARE CLASSIFIED IN THE MNDOT SPEC BOOK AND APPROVED PRODUCTS LIST, DEPENDING ON THE PRODUCT CHARACTERISTICS, STRENGTH, AND LONGEVITY. HYDRAULIC MATRICES USED INCLUDE: ORGANIC FIBER MATRIX, HYDRAULIC MULCH MATRIX, STABILIZED FIBER MATRIX, BONDED FIBER MATRIX, AND FIBER REINFORCED MATRIX.

SOD TYPE LAWN: SOD IS A PERMANENT EROSION PREVENTION BMP THAT PROVIDES INSTANTANEOUS SOIL STABILIZATION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF SOD AS OUTLINED IN THE PROJECT SPECIFICATIONS.

ENERGY DISSIPATER: AN ENERGY DISSIPATER IS A STRUCTURE DESIGNED TO CONTROL EROSION AT THE OUTLET OF A CHANNEL OR CONDUIT.

RAPID STABILIZATION METHOD #2: THIS METHOD SHALL CONSIST OF TYPE 3 MULCH (1.5 TON PER ACRE) OR 3884 TYPE STABILIZED FIBER MATRIX (750 LBS PER ACRE) BE SPREAD IN AREAS THAT HAVE BEEN UNWORKED FOR 14 DAYS. THIS METHOD SHALL BE USED ON SLOPES LESS THAN 3:1.

RAPID STABILIZATION METHOD #3: THIS WORK SHALL CONSIST OF OPERATIONS NECESSARY TO RAPIDLY STABILIZE SMALL CRITICAL AREAS WITHIN 200 FEET OF SURFACE WATERS, TO PREVENT OFF SITE SEDIMENTATION AND / OR TO COMPLY WITH PERMIT REQUIREMENTS. THIS FORM OF RAPID STABILIZATION EMPLOYS SFM, SEED MIX OATS, AND FERTILIZER TYPE 3. THIS METHOD SHALL BE USED ON SLOPES LESS THAN 3:1. INSTALL PER MNDOT SPECIFICATION 2575.3.M.1.C.

RAPID STABILIZATION METHOD #4: THIS METHOD SHALL CONSIST OF CATEGORY 20/25 EROSION CONTROL BLANKET (NATURAL NET ONLY) IN COMBINATION WITH MNDOT SEED MIX OATS (2 LBS PER 100 SQ. YD.) AND TYPE 3 SLOW RELEASE FERTILIZER (8 LBS PER 100 SQ. YD.). THIS IS AN ACCEPTABLE BMP FOR DISTURBED AREAS ADJACENT TO ENVIRONMENTALLY SENSITIVE AREAS, SURFACE WATERS, AND WITHIN THE LAST 200 FEET OF DITCH BOTTOMS.

TEMPORARY & PERMANENT SEDIMENT CONTROL BMPS

SEDIMENT CONTROL LOGS: SEDIMENT CONTROL LOGS ARE MANUFACTURED FROM STRAW, WOOD EXCELSIOR, COCONUT FIBERS, AND/OR OTHER MATERIALS THAT ARE BOUND WITH POLYPROPYLENE OR BIODEGRADABLE NETTING INTO TIGHT TUBULAR ROLLS. FIBER ROLLS CONTROL THREE TYPES OF EROSIONAL PROCESSES; EROSION CONTROL, RUN OFF CONTROL, AND SEDIMENT CONTROL. SEDIMENT CONTROL LOGS CAN BE USED FOR THE FOLLOWING:

- SLOPE INTERRUPTERS TO REDUCE EROSION ON NEWLY CONSTRUCTED SLOPES
- TEMPORARY DITCH CHECKS TO REDUCE RUNOFF VELOCITIES IN DRAINAGE CHANNELS
- SEDIMENT CONTROL BARRIERS FOR SMALL DISTURBED SOIL AREAS SUCH AS STOCKPILES, DISCRETE SLOPES, OR INDIVIDUAL LOTS

MACHINE SLICED SILT FENCE: A SILT FENCE IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF FILTER FABRIC ENTRENCHED INTO THE SOIL AND ATTACHED TO SUPPORTING POSTS. SILT FENCE IS INTENDED TO BE INSTALLED WHERE SEDIMENT-LADEN WATER CAN POND, THUS ALLOWING THE SEDIMENT TO FALL OUT OF SUSPENSION AND SEPARATE FROM THE RUNOFF. SILT FENCE INSTALLED WITH A TRENCHER OR BY SLICING IS THE MOST EFFECTIVE INSTALLATION METHOD TO ENSURE AGAINST COMMON SILT FENCE FAILURES. THE BMP WILL BE CLEANED OUT OR REPLACED WHEN THE SEDIMENT REACHES 1/2 THE HEIGHT OF THE FENCE.

FLOTATION SILT CURTAIN: FLOTATION SILT CURTAIN WILL BE IN PLACE WHERE PROJECT ACTIVITIES ARE LOCATED WITHIN OR NEAR A SURFACE WATER/WETLAND. THE CURTAIN WILL BE LOCATED AS TIGHT TO THE SHORELINE AS POSSIBLE AND NOT TO EXCEED 1/4 THE STREAM WIDTH. DOWN GRADIENT PERIMETER CONTROL MUST STILL BE INSTALLED AS WELL AS AN ADDITIONAL REDUNDANT BMP WHEN WORK IS WITHIN 50 FEET OF THE SURFACE WATER.

STABILIZED CONSTRUCTION EXIT: TEMPORARY CONSTRUCTION EXITS ARE CONSTRUCTED AT THE EGRESS POINT FROM THE CONSTRUCTION AREA ONTO A PAVED ROAD. A STABILIZED CONSTRUCTION EXIT IS A TRACKING CONTROL BMP INTENDED TO PREVENT TRACKING OF SOIL FROM THE CONSTRUCTION SITE BY EQUIPMENT AND VEHICLES. THE EXITS ARE CONSTRUCTED OF LARGE ANGULAR ROCK, STEEL RIBS (RUMBLE STRIPS), OR TRACK PADS INTENDED TO KNOCK THE MUD OFF THE TIRES BEFORE TRAVELING ONTO THE ROADWAY.

CHEMICAL TREATMENTS: OPERATOR MUST AMEND THE SWPPP TO INCLUDE THE INTENDED USES AND LOCATIONS OF FLOCCULANTS, POLYMERS, AND OTHER SEDIMENTATION TREATMENT CHEMICALS. CHEMICAL TREATMENTS MUST BE IN COMPLIANCE WITH PART 9.18.

BIORETENTION & BIOSWALES: BIORETENTION BASINS AND BIOSWALES DIRECT SHEET FLOW ACROSS A GRASS BUFFER STRIP TO A PONDING AREA FOR INFILTRATION. THEY UTILIZE SOILS AND BOTH WOODY AND HERBACEOUS PLANTS TO REMOVE POLLUTANTS FROM STORMWATER RUNOFF. THE PONDING AREA GENERALLY CONSISTS OF A SURFACE LAYER CONTAINING ORGANICS SUCH AS MULCH, TREES, NATIVE GRASSES AND SHRUBS, A SUBSURFACE LAYER OF PLANTING SOIL, AND A SAND BED.

DUST CONTROL: OPERATOR WILL COMPLY WITH STATE RULE 7011.0150 ON DUST PREVENTION REQUIREMENTS. DUST FROM THE SITE WILL BE CONTROLLED BY INCREASED STREET SWEEPING AND/OR USING A MOBILE PRESSURE-TYPE DISTRIBUTOR TRUCK TO APPLY POTABLE WATER TO DISTURBED AREAS. THE MOBILE UNIT WILL APPLY WATER AT A RATE NECESSARY TO PREVENT RUNOFF AND PONDING.

POLLUTION PREVENTION MANAGEMENT

POTENTIAL SOURCES OF POLLUTANTS FROM CONSTRUCTION ACTIVITIES INCLUDE, BUT NOT LIMITED TO:

1. SEDIMENT AND FUGITIVE DUST GENERATED FROM CLEARING AND GRUBBING, IMPORT/EXPORT OPERATIONS, REMOVALS/COMPACTION, MASS/FINE GRADING, EXCAVATIONS, TRENCHING, TOPSOIL STRIPING STOCKPILING, WET/DRY PAVEMENT CUTTING, STREET CONSTRUCTION.
2. BASIC/ACIDIC PH LEVELS FROM CURB AND GUTTER, MANHOLE STRUCTURES, SIDEWALKS, DRIVEWAY APRONS, FOUNDATIONS, BRIDGE ABUTMENTS, WET/DRY PAVEMENT CUTTING, MASONRY WASHOUT/CLEANOUT.
3. EXCESS NUTRIENTS FROM LANDSCAPING INSTALLATIONS, SOIL ADDITIVES, FERTILIZATION, MULCHING.
4. HYDROCARBONS FROM STREET CONSTRUCTION, DEMOLITION/REMOVALS, WET/DRY PAVEMENT CUTTING.

OPERATOR WILL COMPLY WITH ALL OF THE POLLUTION PREVENTION AND MANAGEMENT MEASURES IDENTIFIED IN THE NPDES-CSW PERMIT, PART 12.1. STORAGE AND DISPOSAL OF CONSTRUCTION AND HAZARDOUS WASTES MUST BE IN COMPLIANCE WITH MPCA REGULATIONS.

A. POSITION AND STAKE DOWN ALL PORTABLE TOILETS SO THEY CANNOT BE TIPPED OR KNOCKED OVER. SUPPLY ADEQUATE SECONDARY CONTAINMENT.
B. SECONDARY CONTAINMENT IS NEEDED AROUND ALL STATIONARY EQUIPMENT (GENERATORS, PUMPS, LIGHT PLANTS, ETC.) PROVIDE CONTAINMENT FOR ALL HAZARDOUS MATERIALS AND TOXIC WASTE.
C. NO ENGINE DEGREASING IS ALLOWED ON SITE.
D. VEHICLE AND EQUIPMENT WASHING TO OCCUR IN DESIGNATED AREA AS DETERMINED BY THE CONTRACTOR SUBMITTAL OF A MANAGEMENT PLAN FOR THESE ACTIVITIES.
E. PROPERLY CLEAN UP AND REPORT ALL SPILLS AS REQUIRED BY THE MPCA AND MNDOT SPECIFICATIONS.
F. PROVIDE A SPILL KIT AT EACH WORK LOCATION ON THE SITE.
G. PROVIDE A SECURE STORAGE AREA WITH RESTRICTED ACCESS FOR ALL HAZARDOUS MATERIALS AND TOXIC WASTE. RETURN ALL HAZARDOUS MATERIALS AND TOXIC WASTE TO THE DESIGNATED STORAGE AREA AT THE END OF THE BUSINESS DAY UNLESS INFEASIBLE. STORE ALL HAZARDOUS MATERIALS AND TOXIC WASTE (INCLUDING BUT NOT LIMITED TO OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT, PETROLEUM BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) IN SEALED CONTAINERS WITH SECONDARY CONTAINMENT. CLEAN UP SPILLS IMMEDIATELY. STORE, COLLECT AND DISPOSE OF ALL SOLID WASTE.
H. SLURRY FROM CONCRETE OPERATIONS MUST BE VACUUMED UP IMMEDIATELY. NO CONCRETE WASHOUT SHALL COME IN CONTACT WITH THE GROUND AND MUST BE PROPERLY DISPOSED OF.
I. A SIGN MUST BE INSTALLED ADJACENT TO EACH CONCRETE WASHOUT FACILITY.
J. CREATE AND FOLLOW A WRITTEN DISPOSAL PLAN FOR ALL WASTE MATERIALS. INCLUDE IN THE PLAN HOW THE MATERIAL WILL BE DISPOSED OF AND THE LOCATION OF THE DISPOSAL SITE. SUBMIT PLAN TO THE ENGINEER PRIOR TO CONSTRUCTION.
K. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT DISCHARGE OR PLACEMENT OF BITUMINOUS GRINDINGS, CUTTINGS, MILLINGS, AND OTHER BITUMINOUS WASTES FROM AREAS OF EXISTING OR FUTURE VEGETATED SOILS AND FROM ALL WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES.

FINAL STABILIZATION

FINAL STABILIZATION IS ACHIEVED WHEN NPDES CGP PARTS 13.1-13.8 (AS APPLICABLE) ARE COMPLETED PRIOR TO SUBMISSION OF THE NOTICE OF TERMINATION (NOT) TO MPCA.

1. ALL AREAS MUST BE STABILIZED WITH A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OF ITS EXPECTED FINAL GROWTH.
2. ALL TEMPORARY SEDIMENT CONTROL BMP MEASURES MUST BE REMOVED PRIOR TO SUBMITTING PERMIT NOT.
3. THE NOT SUBMITTAL MUST INCLUDE EITHER GROUND OR AERIAL PHOTOGRAPHS SHOWING THE AFOREMENTIONED REQUIREMENTS OF HAVE BEEN MET.

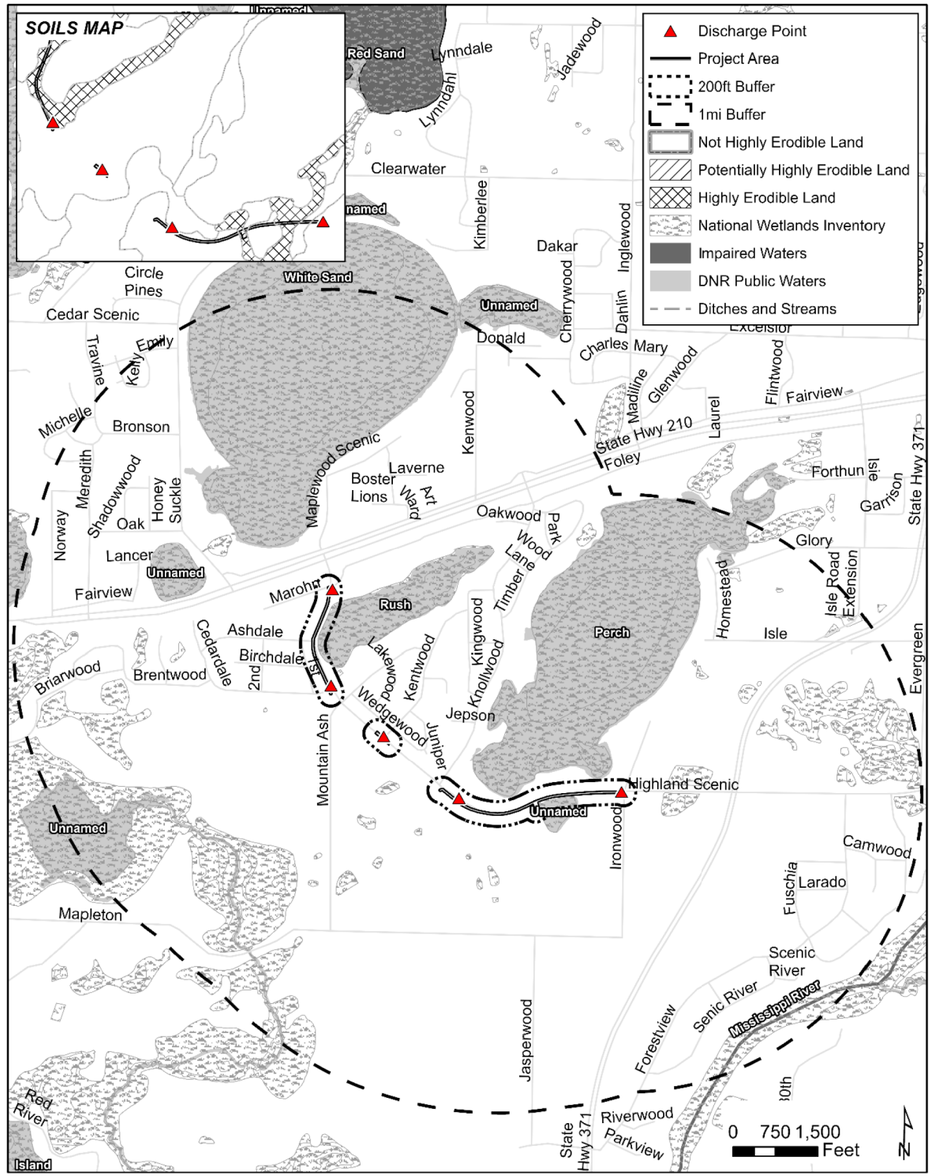


Figure 1. SWPPP Resource Map

EROSION / SEDIMENT CONTROL NOTES:

SEDIMENT CONTROL PRACTICES:

1. SEDIMENT CONTROL MUST BE IN PLACE AND APPROVED BY THE ENGINEER BEFORE ANY PHASE OF CONSTRUCTION CAN BEGIN.
2. IF A 50' NATURAL BUFFER AROUND A SURFACE WATER IS INFEASIBLE, REDUNDANT PERIMETER CONTROLS MUST BE PROVIDED. REDUNDANT MEASURES TO BE INSTALLED 3'-5' FROM THE PRIMARY MEASURE WITH STABILIZED AREAS BETWEEN THE TWO BMPS.
3. INLET PROTECTION WILL BE INSTALLED AT ALL CATCH INLETS WITHIN THE PROJECT AREA PER STANDARD PLAN.
4. TEMPORARY STABILIZATION MEASURES SHALL BE EMPLOYED WITHIN 200' OF THE NORMAL WETTED PERIMETER OF ALL DISCHARGE POINTS WITHIN 24 HOURS. MULCH IS NOT AN APPROVED MEASURE.
5. IN THE EVENT THAT PERMANENT STABILIZATION MEASURES CANNOT BE IMPLEMENTED WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITY IN THE DISTURBED AREA HAS CEASED, TEMPORARY STABILIZATION BMPS MUST BE SCHEDULED TO OCCUR WITHIN THAT 7 DAY TIME FRAME (EXCEPT WHERE CALLED OUT IN THESE NOTES).
6. RAPID STABILIZATION METHOD 4 SHALL BE EMPLOYED WITHIN 200' OF THE NORMAL WETTED PERIMETER OF ALL DISCHARGE POINTS WITHIN 24 HOURS.
7. A SEDIMENT TRAP MUST BE INSTALLED PER THE APPROVED STANDARD DETAILS WITHIN 24 HOURS OF CONNECTING THE UTILITIES.
8. ALL STOCKPILES MUST HAVE DOWN GRADIENT PERIMETER SEDIMENT CONTROL IMPLEMENTED AND MAINTAINED AT ALL TIMES. STOCKPILES TO RECEIVE TEMPORARY STABILIZATION IF UNWORKED FOR 14 DAYS.
9. STOCKPILES MAY NOT BE PLACED WITHIN ANY DISCHARGE OR CURB LINE UNLESS PROPER BYPASS IS INSTALLED PRIOR TO STOCKPILE PLACEMENT.
10. CONTRACTOR TO INSTALL SEDIMENT CONTROL LOGS AND/OR SILT FENCE DOWN GRADIENT FROM ANY EXPOSED AREA.

EROSION PREVENTION PRACTICES:

1. STABILIZATION OF DISTURBED AREAS SHALL BE DONE BY PERMANENT TURF ESTABLISHMENT WHENEVER POSSIBLE.

POLLUTION PREVENTION MANAGEMENT MEASURES:

1. A ROCK CONSTRUCTION ENTRANCE WILL BE PLACED AT ALL ENTRANCES THAT LEAD TO THE PROJECT SITE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN AND THE APPROVED STANDARD DETAILS.
2. ALL STREETS IN AND ADJACENT TO THE PROJECT SHALL REMAIN CLEAN AND PASSABLE AT ALL TIMES. ADJACENT STREET AND CURB LINES TO BE SWEPT FREE OF DEBRIS AT THE END OF EACH WORK DAY, OR AS OFTEN AS NEEDED TO ENSURE PUBLIC SAFETY.
3. SLURRY FROM CONCRETE OPERATIONS MUST BE VACUUMED UP IMMEDIATELY. NO CONCRETE WASHOUT SHALL COME IN CONTACT WITH THE GROUND AND MUST BE PROPERLY DISPOSED OF. ALL HAZARDOUS MATERIALS MUST BE KEPT UNDER COVER AND WITHIN PROPER CONTAINMENT WHEN NOT IN USE.

INFILTRATION BASINS:

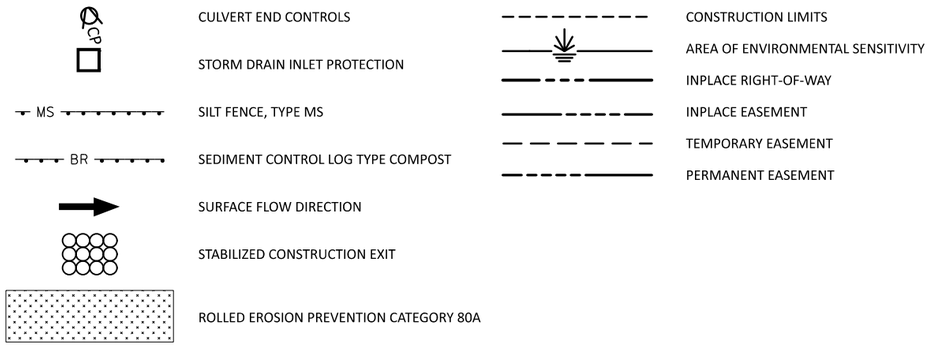
1. NO HEAVY EQUIPMENT, STOCKPILES, OR HAZARDOUS MATERIALS SHALL BE STORED ON OR NEAR THE INFILTRATION BASINS.
2. DO NOT FULLY EXCAVATE INFILTRATION BASINS UNTIL ALL UPGRADIENT LAND DISTURBING ACTIVITY HAS BEEN COMPLETED AND THE DRAINAGE AREA HAS BEEN STABLIZED. PROVIDERIGOROUS EROSION PREVENTION AND SEDIMENT AND SEDIMENT CONTROL BMP'S TO KEEP SEDIMENT AND RUNOFF COMPLETELY AWAY FROM THE INFILTRATION AREAS.

MISCELLANEOUS:

1. ADDITIONAL EROSION AND SEDIMENT CONTROL MAY BE ADDED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.
2. IF PROJECT CONSISTS OF MILL & OVERLAY OF SECTIONS, ENSURE MILLINGS ARE NOT A THREAT FROM WASHING OFF THE PROJECT RIGHT OF WAY.
3. IF UNABLE TO MAINTAIN 50' VEGETATIVE BUFFER, CONTRACTOR TO PROTECT ALL WETLAND AREAS WITH PERIMETER CONTROL (AND REDUNDANT MEASURES) UNTIL WORK IN THE PERMITTED AREAS IS NEEDED.

EROSION CONTROL & TURF ESTABLISHMENT LEGEND:

PATTERN	USE	PERMANENT	TEMPORARY
	BOULEVARDS	SEED SOUTHERN BOULEVARD @ 160 LBS/ACRE FERTILIZER TYPE 1, 20-10-20 @ 350 LBS/ACRE HYDRAULIC MULCH MATRIX HYDRAULIC STABILIZED FIBER MATRIX	HYDRAULIC STABILIZED FIBER MATRIX
	GRADING OUTSIDE OF WALKS AND TRAILS	SEED TURFGRASS @ 200 LBS / ACRE FERTILIZER TYPE 3, 22-5-10 @ 200 LBS/ACRE HYDRAULIC MULCH MATRIX HYDRAULIC STABILIZED FIBER MATRIX	HYDRAULIC STABILIZED FIBER MATRIX



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CHECKED BY:	JK

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SIGNATURE: _____
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

EROSION CONTROL AND TURF ESTABLISHMENT PLAN

SP 230-090-003 / SP 018-070-024

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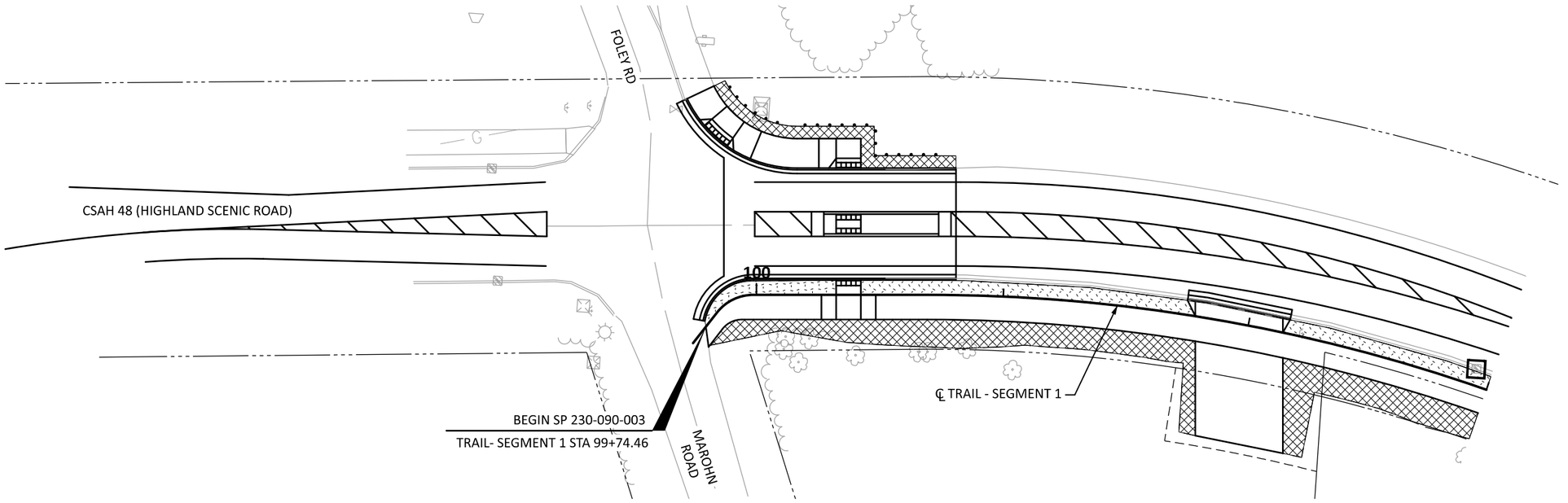

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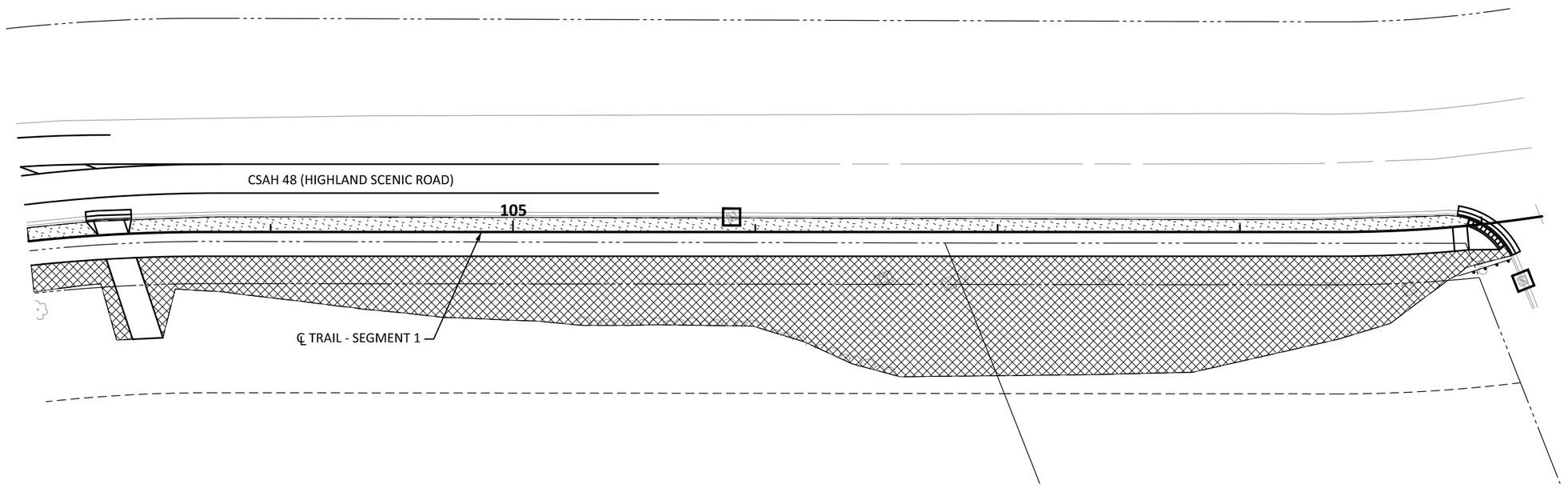

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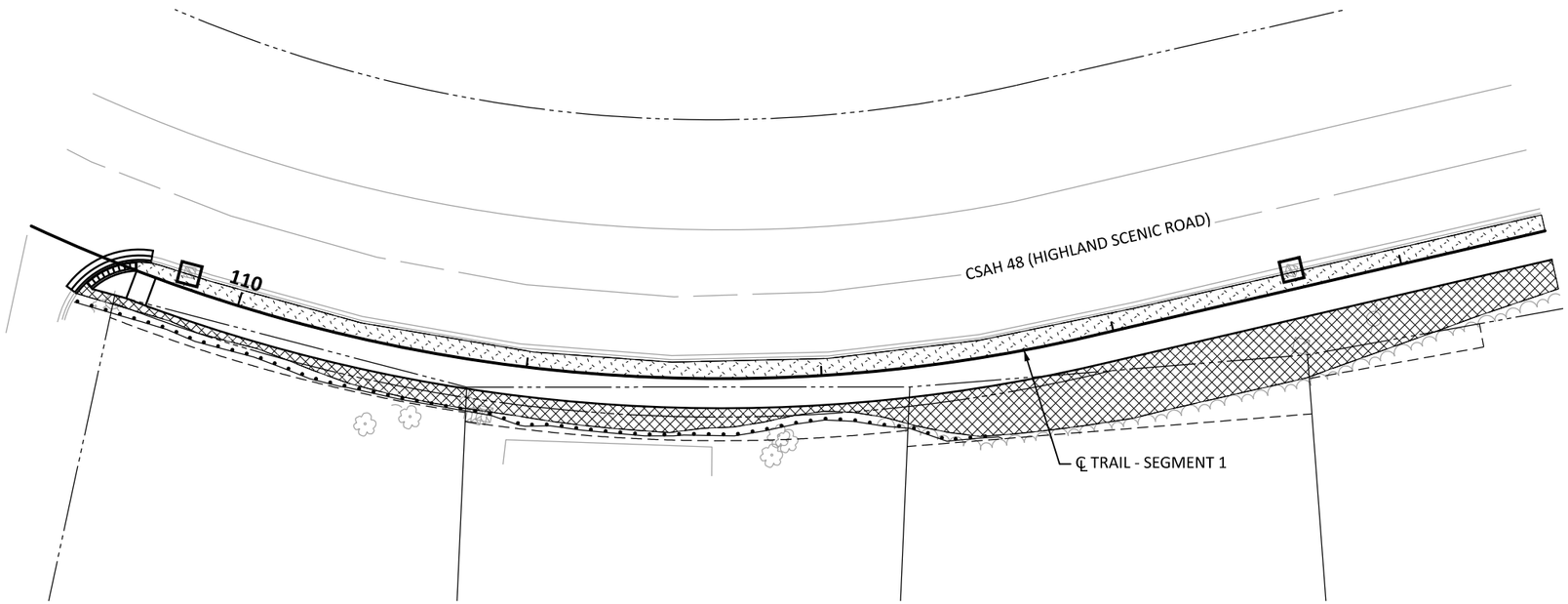

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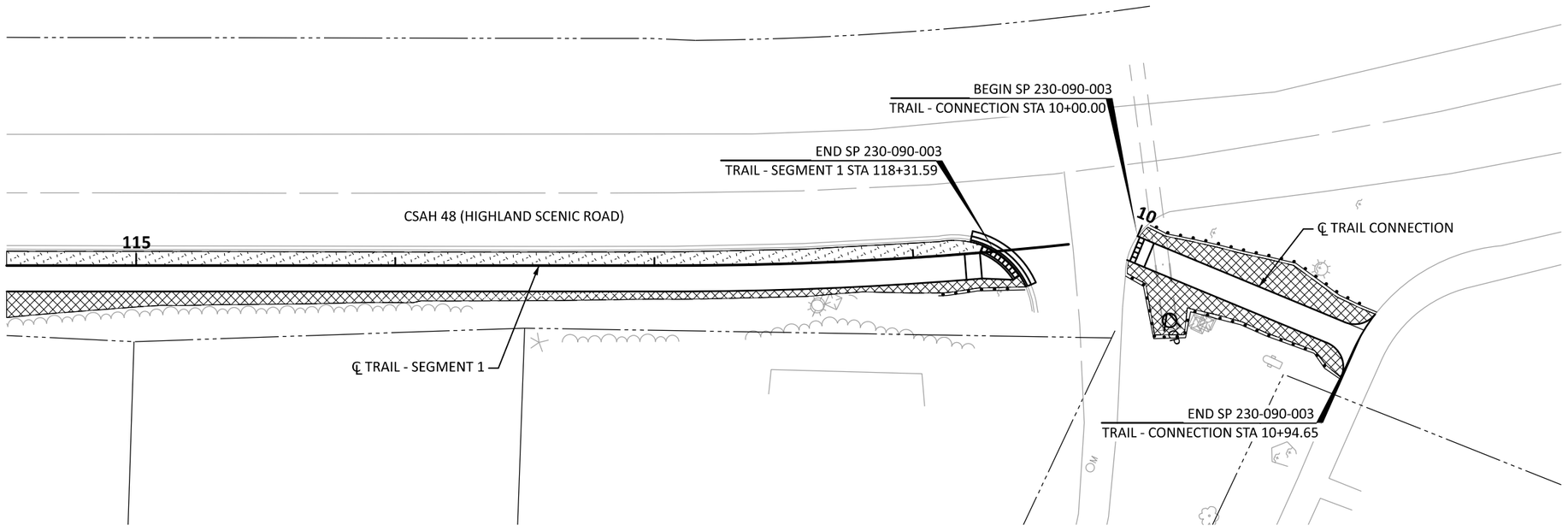

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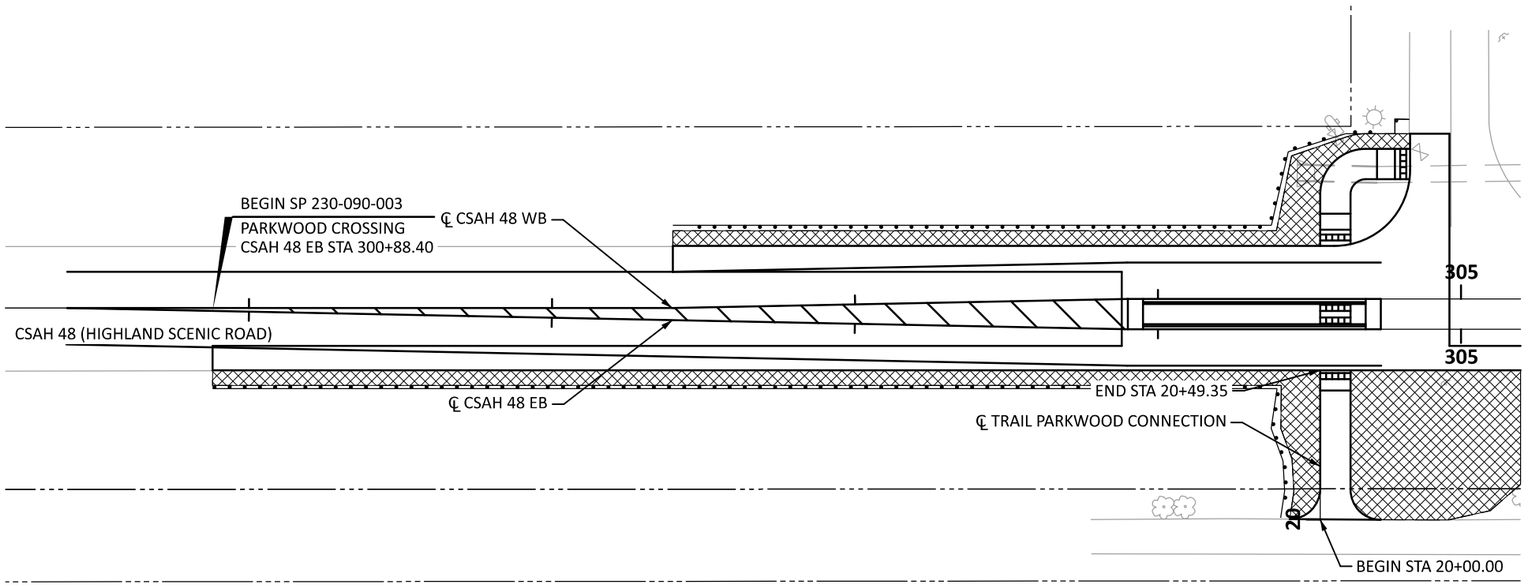

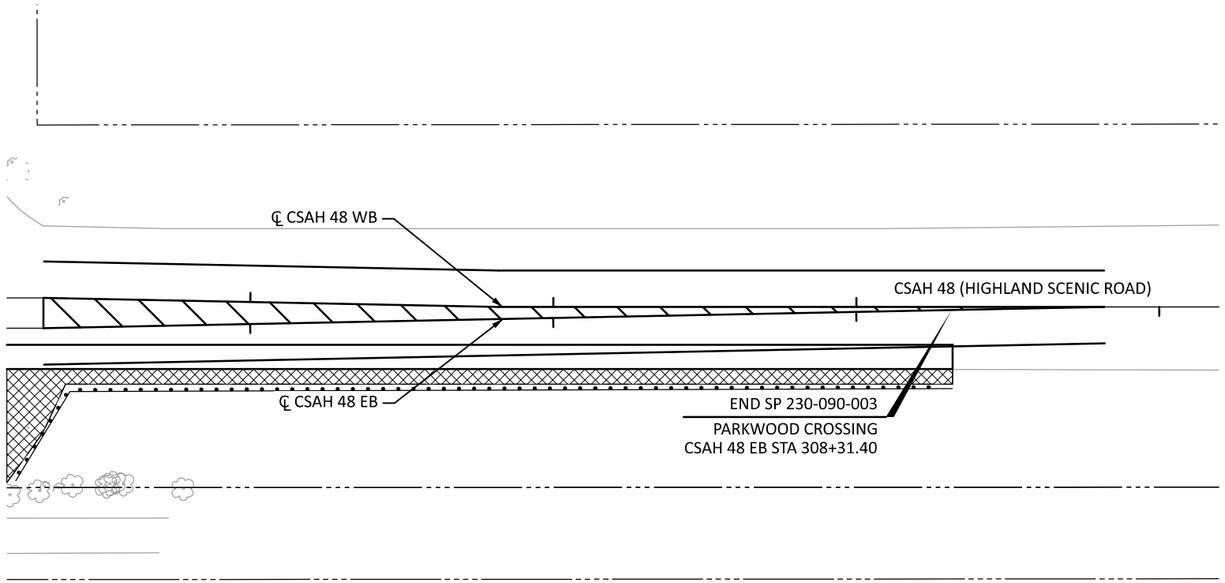

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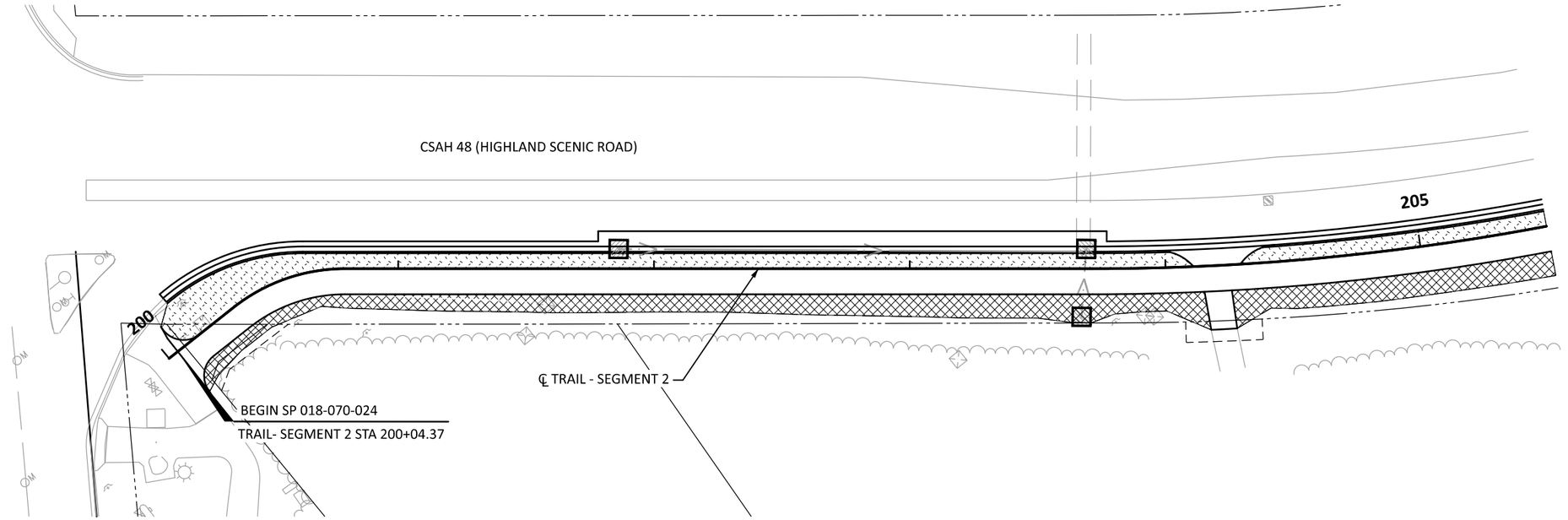

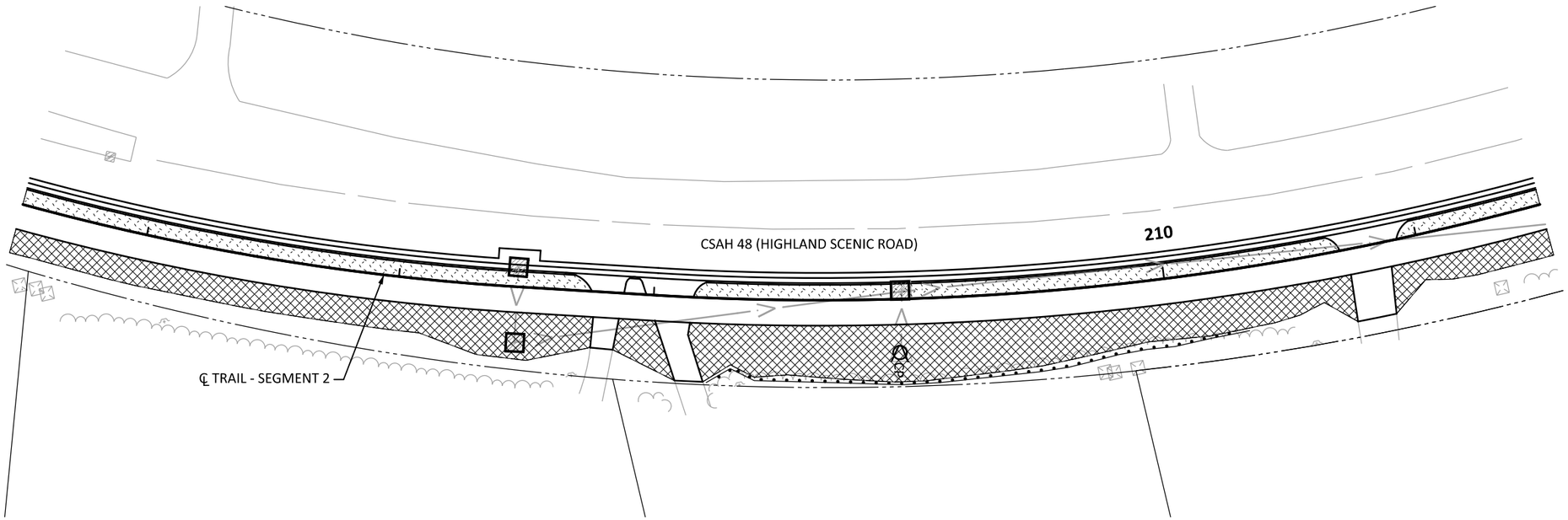

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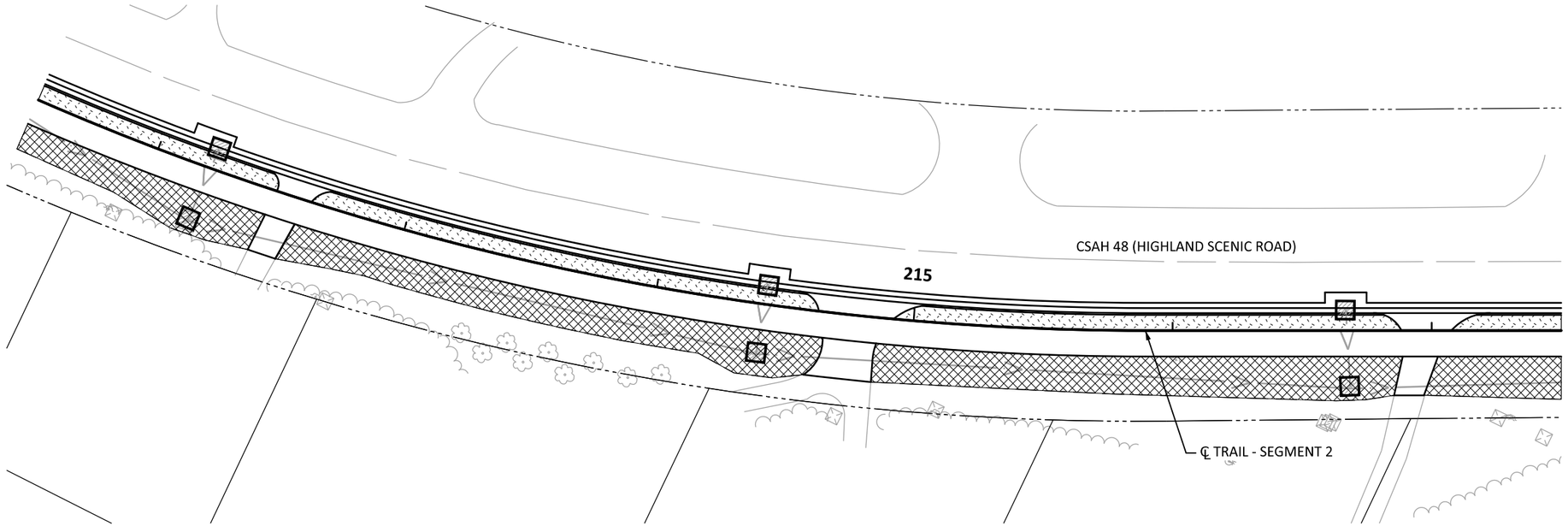
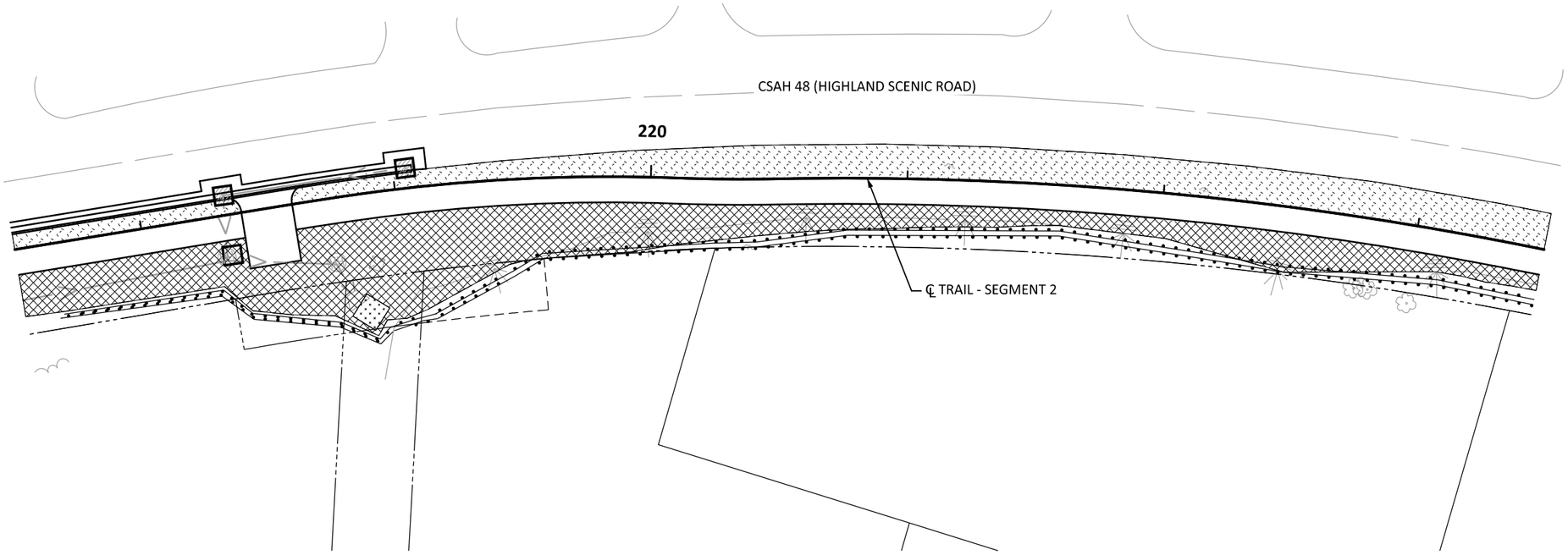
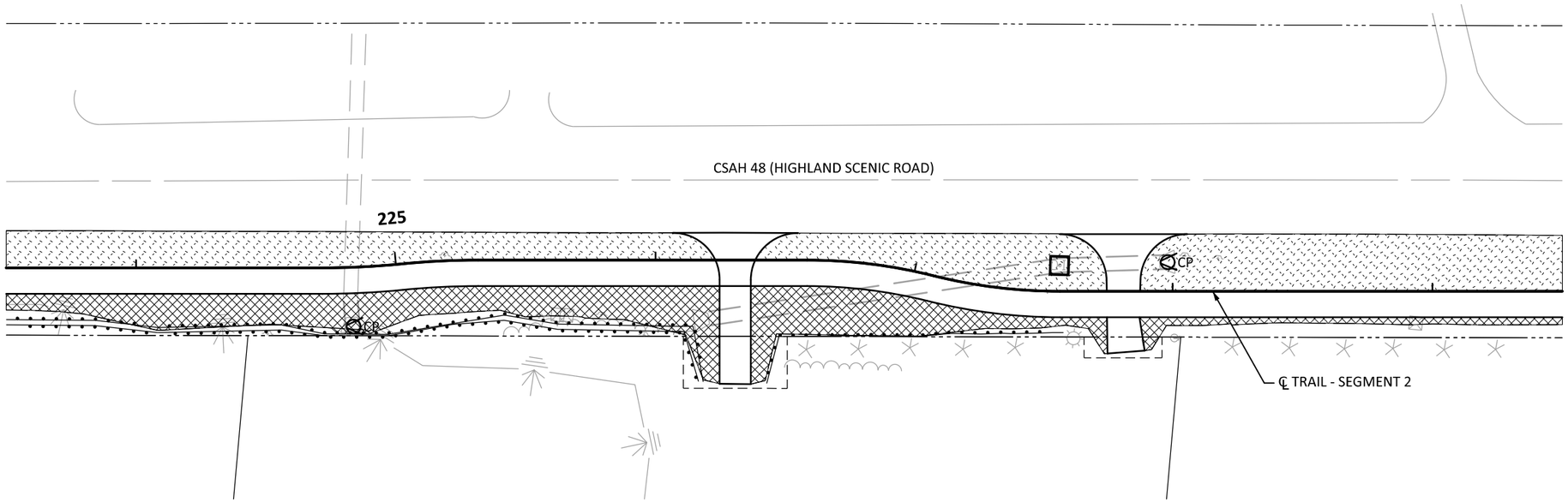
DRAWN BY: AS DESIGNED BY: MKV CHECKED BY: JK	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE: PRINTED NAME: MARCUS VANDERBRUG, P.E. DATE: 4/20/2026 LIC. NO. 56164	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	EROSION CONTROL AND TURF ESTABLISHMENT PLAN	SP 230-090-003 / SP 018-070-024 Sheet No. 85 of 100 Sheets

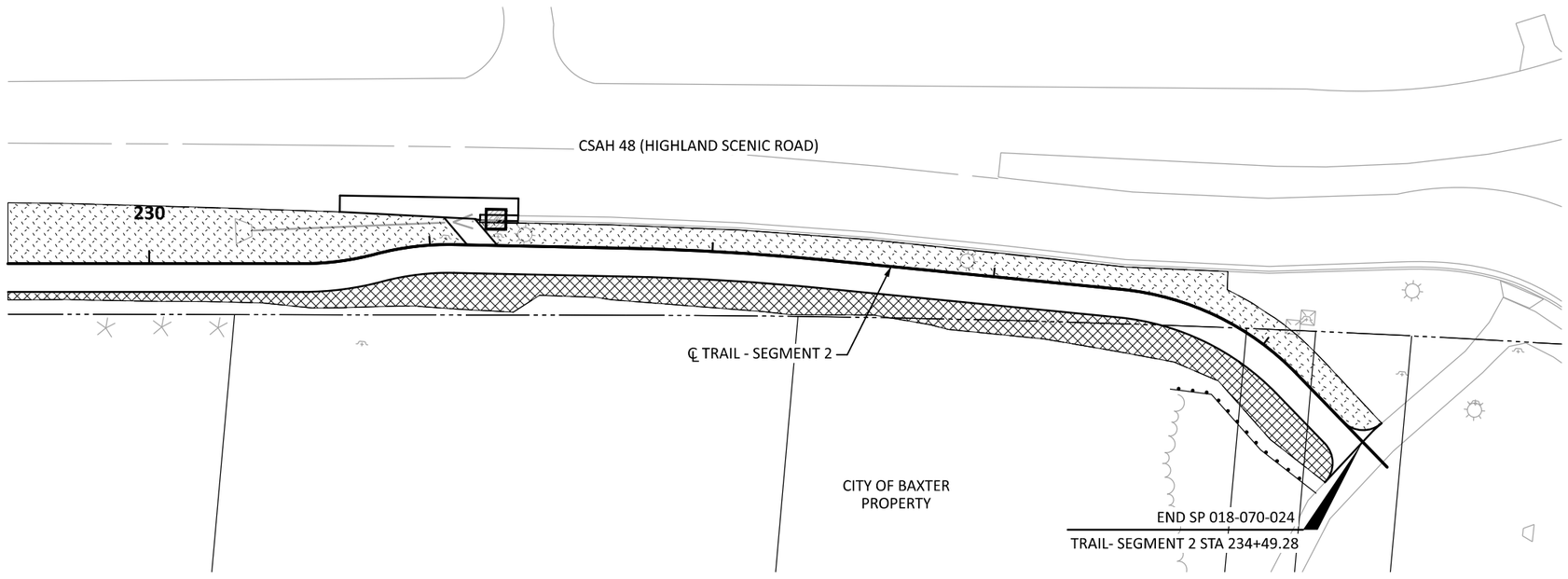




DATE: 4/20/2026 TIME: 9:51:24 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-325erc-001

DRAWN BY: AS DESIGNED BY: MKV CHECKED BY: JK	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE: Marcus VanderBrug PRINTED NAME: MARCUS VANDERBRUG, P.E. DATE: 4/20/2026 LIC. NO. 56164	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	EROSION CONTROL AND TURF ESTABLISHMENT PLAN	SP 230-090-003 / SP 018-070-024 Sheet No. 86 of 100 Sheets





DATE: 4/20/2026 TIME: 9:51:24 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-325erc-001

DRAWN BY:	AS
DESIGNED BY:	MKV
CHECKED BY:	JK

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Marcus VanderBrug
PRINTED NAME: MARCUS VANDERBRUG, P.E.
DATE: 4/20/2026 LIC. NO. 56164

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

EROSION CONTROL AND TURF ESTABLISHMENT PLAN

SP 230-090-003 / SP 018-070-024

PAVEMENT MARKING TABULATION — M

LOCATION	PAVEMENT MARKING REMOVAL (1)		MULTI-COMPONENT GR IN (WR) 4" SOLID LINE		8" SOLID LINE	24" SOLID LINE	4" BROKEN LINE	4" DOUBLE SOLID LINE	PAVEMENT MESSAGE
			WHITE	YELLOW	WHITE	YELLOW	YELLOW	YELLOW	RIGHT ARROW
	LIN FT	SQ FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	SQ FT
SP 230-090-003									
TRAIL SEGMENT 1									
STA 99+74.46 TO STA 103+00	1815	96	977		63	102		811	
STA 103+00 TO STA 109+25	289		120					166	
STA 109+25 TO STA 114+50					89				
STA 114+50 TO STA 118+31.59					90				
SUBTOTAL TRAIL SEGMENT 1	2104	96	1097		242	102		977	
PARKWOOD CROSSING									
CSAH 48 EB									
STA 293+72 TO 305+19.64	620		2345	94	63	40	24	1201	47
STA 305+19.64 TO STA 312+43	1356	96	1658	282		57		1087	31
SUBTOTAL CSAH 48 EB	1976	96	4003	376	63	97	24	2288	78
SUBTOTAL SP 230-090-003	4080	192	5100	376	305	199	24	3265	78
PROJECT SUBTOTAL	4080	192	5100	376	305	199	24	3265	78
PROJECT TOTAL	4080	192	5476		305	199	24	3265	78

(1) PAVEMENT MARKING REMOVAL INCLUDES:
CONFLICTING CENTERLINE, TURN LANE, AND EDGELINE MARKINGS AT CSAH 48 INTERSECTIONS WITH MAROHN RD/ FOLEY RD AND PARKWOOD DR OUTSIDE OF THE CONSTRUCTION LIMITS

SIGN AND DELINEATOR / MARKER — J

	SIGN NUMBER	PANEL CODE	PANEL LEGEND	PANEL SIZE (W x H) INCHES	PANEL MOUNTING HEIGHT FEET	SUPPORT TYPE	SUPPORT RISER POST SIZE INCHES	SUPPORT NUMBER OF POSTS	REMOVE SIGN (A) EACH	REMOVE SIGN (B) EACH	SIGN (A) SQ FT	SIGN (B) SQ FT	SALVAGE SIGN (A) EACH	SALVAGE SIGN (B) EACH	INSTALL SIGN (A) EACH	INSTALL SIGN (B) EACH	DELINEATOR /MARKER PANEL (A) EACH
(1)	S-1	R1-1	STOP	18 x 18	4	SQ-CONC	2	1	1		2.25						
		(2)	NO MOTORIZED VEHICLES PERMITTED	18 x 18							2.25						
	S-2	W11-15	COMBINED BICYCLE/PEDESTRIAN CROSSING	30 x 30	7	SQ-SOIL	2	1			6.25						
		W16-7PL	DOWN ARROW LEFT PLAQUE	24 x 12							2.00						
	S-3	W1-8	CHEVRON	18 x 24					1								
		W1-8	CHEVRON	18 x 24													
(1)	S-4	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1			3.00						
		W1-8	CHEVRON	18 x 24							3.00						
	S-5	R3-7R	RIGHT LANE MUST TURN RIGHT	30 x 30					1								
	S-6	W11-15	COMBINED BICYCLE/PEDESTRIAN CROSSING	30 x 30	7	SQ-SOIL	2	1			6.25						
		W16-9P	AHEAD PLAQUE	24 x 12							2.00						
(1)	S-6.1	R1-1	STOP	18 x 18	4	SQ-CONC	2	1			2.25						
		(2)	NO MOTORIZED VEHICLES PERMITTED	18 x 18							2.25						
	S-7	R1-1	STOP	30 x 30	7	SQ-SOIL	2	1	1		6.25						
	S-8	R4-7	KEEP RIGHT	24 x 30	7	SQ-CONC	2	1			5.00						
		OM1-1	OBJECT MARKER	18 x 18	4												1
	S-9	W11-15	COMBINED BICYCLE/PEDESTRIAN CROSSING	30 x 30	7	SQ-SOIL	2	1			6.25						
		W16-7PL	DOWN ARROW LEFT PLAQUE	24 x 12							2.00						
	S-10	R4-7	KEEP RIGHT	24 x 30	7	SQ-CONC	2	1			5.00						
		OM1-1	OBJECT MARKER	18 x 18	4												1
	S-11	W11-15	COMBINED BICYCLE/PEDESTRIAN CROSSING	30 x 30	7	SQ-SOIL	2	1			6.25						
		W16-9P	AHEAD PLAQUE	24 x 12							2.00						
	S-12	W2-1	CROSS ROAD	30 x 30					1								
		W13-1P	30 MPH PLAQUE	24 x 24													
	S-13	W1-2L	CURVE LEFT	30 x 30	7	SQ-SOIL	2	1			6.25						
	S-14	W1-2L	CURVE LEFT	30 x 30					1								
(1)	S-15	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1			3.00						
		W1-8	CHEVRON	18 x 24							3.00						
	S-16	W1-8	CHEVRON	18 x 24					1								
		W1-8	CHEVRON	18 x 24													
(1)	S-17	R1-1	STOP	18 x 18	4	SQ-CONC	2	1			2.25						
		(2)	NO MOTORIZED VEHICLES PERMITTED	18 x 18							2.25						
	S-18	R1-1	STOP	30 x 30					1								
	S-19	R1-1	STOP	30 x 30	7	SQ-SOIL	2	1	1		6.25						
	S-20	W1-8	CHEVRON	18 x 24					1								
		W1-8	CHEVRON	18 x 24													
(1)	S-20.1	R1-1	STOP	18 x 18	4	SQ-CONC	2	1			2.25						
		(2)	NO MOTORIZED VEHICLES PERMITTED	18 x 18							2.25						

DATE: 4/20/2026 TIME: 9:51:33 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-440sgn-001.dgn

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DESIGNED BY:	BB
CHECKED BY:	MF

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Mallori Fitzpatrick
PRINTED NAME: MALLORI FITZPATRICK, PE
DATE: 4/20/2026 LIC. NO. 58640

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

SIGNING & STRIPING PLAN

SP 230-090-003 / SP 018-070-024
Sheet No. 88 of 100 Sheets

SIGN AND DELINEATOR / MARKER

J

	SIGN NUMBER	PANEL				SUPPORT			REMOVE SIGN		SIGN		SALVAGE SIGN		INSTALL SIGN		DELINEATOR /MARKER PANEL
		PANEL CODE	LEGEND	SIZE (W x H)	MOUNTING HEIGHT	TYPE	RISER POST SIZE	NUMBER OF POSTS	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(A)
				INCHES	FEET		INCHES		EACH	EACH	SQ FT	SQ FT	EACH	EACH	EACH	EACH	EACH
(1)	S-21	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1			3.00						
		W1-8	CHEVRON	18 x 24							3.00						
(1)	S-22	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1			3.00						
		W1-8	CHEVRON	18 x 24							3.00						
	S-23	W1-8	CHEVRON	18 x 24					1								
		W1-8	CHEVRON	18 x 24													
(1)	S-24	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1			3.00						
		W1-8	CHEVRON	18 x 24	7						3.00						
	S-25	W1-8	CHEVRON	18 x 24					1								
		W1-8	CHEVRON	18 x 24													
(1)	S-26	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1			3.00						
		W1-8	CHEVRON	18 x 24	7						3.00						
	S-27	W1-8	CHEVRON	18 x 24					1								
		W1-8	CHEVRON	18 x 24													
	S-28	W1-2L	CURVE LEFT	30 x 30	7	SQ-SOIL	2	1			6.25						
	S-29	W1-2L	CURVE LEFT	30 x 30					1								
(1)	S-30	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1			3.00						
		W1-8	CHEVRON	18 x 24	7						3.00						
	S-31	W1-8	CHEVRON	18 x 24					1								
		W1-8	CHEVRON	18 x 24													
(1)	S-31.1	R1-1	STOP	18 x 18	4	SQ-CONC	2	1			2.25						
		(2)	NO MOTORIZED VEHICLES PERMITTED	18 x 18							2.25						
	S-32	R1-1	STOP	30 x 30	7	SQ-SOIL	2	1			6.25						
	S-33	R1-1	STOP	30 x 30					1								
(1)	S-33.1	R1-1	STOP	18 x 18	4	SQ-CONC	2	1			2.25						
		(2)	NO MOTORIZED VEHICLES PERMITTED	18 x 18							2.25						
(1)	S-34	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1	1		3.00						
		W1-8	CHEVRON	18 x 24	7						3.00						
	S-35	W14-3	NO PASSING ZONE	48 x 36	7	SQ-SOIL	2-1/2	2			5.60						
	S-36	W11-15	COMBINED BICYCLE/PEDESTRIAN CROSSING	30 x 30	7	SQ-SOIL	2	1			6.25						
		W16-7PL	DOWN ARROW LEFT PLAQUE	24 x 12							2.00						
	S-37	R4-7	KEEP RIGHT	24 x 30	7	SQ-CONC	2	1			5.00						
		OM1-1	OBJECT MARKER	18 x 18	4												1
	S-38	R1-1	STOP	30 x 30	7	SQ-SOIL	2	1	1		6.25						
	S-39	W11-15	COMBINED BICYCLE/PEDESTRIAN CROSSING	30 x 30	7	SQ-SOIL	2	1			6.25						
		W16-9P	AHEAD PLAQUE	24 x 12							2.00						
	S-40	R4-7	KEEP RIGHT	24 x 30	7	SQ-CONC	2	1			5.00						
		OM1-1	OBJECT MARKER	18 x 18	4												1
	S-41	W11-15	COMBINED BICYCLE/PEDESTRIAN CROSSING	30 x 30	7	SQ-SOIL	2	1			6.25						
		W16-7PL	DOWN ARROW LEFT PLAQUE	24 x 12							2.00						
(1)	S-42	R1-1	STOP	18 x 18	4	SQ-SOIL	2	1			2.25						
		(2)	NO MOTORIZED VEHICLES PERMITTED	18 x 18	4						2.25						
		X4-3	CYLINDER STYLE DELINEATOR (WHITE)	6 x 9													1
	S-43	R1-1	STOP	18 x 18					1								
		R5-3	NO MOTORIZED VEHICLES PERMITTED	18 x 18													
		X4-3	CYLINDER STYLE DELINEATOR (WHITE)	6 x 9													
	S-44	W14-3	NO PASSING ZONE	48 x 36					1								
	S-45	W11-15	COMBINED BICYCLE/PEDESTRIAN CROSSING	30 x 30	7	SQ-SOIL	2	1			6.25						
		W16-9P	AHEAD PLAQUE	24 x 12							2.00						
	S-46	D7-X19	FORESTVIEW MIDDLE SCHOOL RIGHT	x	7	SQ-SOIL	2	1					1		1		
(1)	S-47	R1-1	STOP	18 x 18	4	SQ-SOIL	2	1		1		2.25					
		(2)	NO MOTORIZED VEHICLES PERMITTED	18 x 18								2.25					
	S-48	R1-2	YIELD	36 x 36	7	SQ-SOIL	2	1		1		9.00					
	S-49	W1-4L	REVERSE CURVE LEFT	30 x 30						1							
	S-50	W1-4L	REVERSE CURVE LEFT	30 x 30	7	SQ-SOIL	2	1				6.25					
	S-51	R2-1	SPEED LIMIT 50	24 x 30						1							
	S-52	R2-1	SPEED LIMIT 50	24 x 30	7	SQ-SOIL	2	1				5.00					
	S-53	S3-1	SCHOOL BUS STOP AHEAD	36 x 36	7	SQ-SOIL	2	1				9.00					
	S-54	S3-1	SCHOOL BUS STOP AHEAD	36 x 36						1							
(1)	S-55	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1				3.00					
		W1-8	CHEVRON	18 x 24								3.00					
	S-56	W1-8	CHEVRON	18 x 24						1							
		W1-8	CHEVRON	18 x 24													
	S-57	W1-8	CHEVRON	18 x 24						1							
		W1-8	CHEVRON	18 x 24													
(1)	S-58	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1				3.00					
		W1-8	CHEVRON	18 x 24								3.00					
(1)	S-59	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1				3.00					
		W1-8	CHEVRON	18 x 24								3.00					

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SIGNATURE: Mallori Fitzpatrick
PRINTED NAME: MALLORI FITZPATRICK, PE
DATE: 4/20/2026 LIC. NO. 58640

wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

SIGNING & STRIPING PLAN

SP 230-090-003 / SP 018-070-024

SIGN AND DELINEATOR / MARKER — J

	SIGN NUMBER	PANEL				SUPPORT			REMOVE SIGN		SIGN		SALVAGE SIGN		INSTALL SIGN		DELINEATOR /MARKER PANEL
		PANEL CODE	LEGEND	SIZE (W x H)	MOUNTING HEIGHT	TYPE	RISER POST SIZE	NUMBER OF POSTS	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)	(A)
				INCHES	FEET		INCHES		EACH	EACH	SQ FT	SQ FT	EACH	EACH	EACH	EACH	EACH
	S-60	W1-8	CHEVRON	18 x 24						1							
		W1-8	CHEVRON	18 x 24													
(1)	S-61	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1				3.00					
		W1-8	CHEVRON	18 x 24								3.00					
	S-62	W1-8	CHEVRON	18 x 24						1							
		W1-8	CHEVRON	18 x 24													
(1)	S-63	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1				3.00					
		W1-8	CHEVRON	18 x 24								3.00					
	S-64	W1-8	CHEVRON	18 x 24						1							
		W1-8	CHEVRON	18 x 24													
(1)	S-65	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1				3.00					
		W1-8	CHEVRON	18 x 24								3.00					
	S-66	W1-8	CHEVRON	18 x 24						1							
		W1-8	CHEVRON	18 x 24													
(1)	S-67	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1				3.00					
		W1-8	CHEVRON	18 x 24								3.00					
	S-68	W1-8	CHEVRON	18 x 24						1							
		W1-8	CHEVRON	18 x 24													
(1)	S-69	W1-8	CHEVRON	18 x 24	7	SQ-SOIL	2	1				3.00					
		W1-8	CHEVRON	18 x 24								3.00					
	S-70	W1-8	CHEVRON	18 x 24						1							
		W1-8	CHEVRON	18 x 24													
	S-71	DESIGN	ROUNDABOUT DIRECTIONAL	144 x 72						1							
	S-72	DESIGN	ROUNDABOUT DIRECTIONAL	144 x 72	7	SQ-SOIL	2-1/2	3				72.00					
	S-73	W14-3	NO PASSING ZONE	48 x 36	7	SQ-SOIL	2-1/2	2		1		5.60					
	S-74	W3-2	YIELD AHEAD	30 x 30	7	SQ-SOIL	2	1		1		6.25					
	S-75	W2-6	ROUNDABOUT	30 x 30	7	SQ-SOIL	2-1/2	1		1		6.25					
		W16-17P	ROUNDABOUT PLAQUE	36 x 12								3.00					
		W13-1P	15 MPH PLAQUE	24 x 24								4.00					
	S-76	D9-X6	PRINCE OF PEACE LUTHERAN RIGHT	72 x 18	7	SQ-SOIL	2-1/2	2						1		1	
	S-77	R3-8DA	LT-R	36 x 30	7	SQ-SOIL	2	1				7.50					
	S-78	R3-8DA	LT-R	36 x 30		SQ-SOIL				1							
								GROUP SUBTOTAL	20	18	209	186	1	1	1	1	5
								PROJECT TOTAL	38		395		2		2		5

FUNDING GROUP NOTES:
GROUP A = SP 230-090-003
GROUP B = SP 018-070-024

SPECIFIC NOTES:
(1) MOUNT BACK TO BACK.
(2) SEE CITY OF BAXTER DETAIL M-7 FOR SIGN DETAILS.

SIGN SPECIAL — L

SIGN NUMBER	PANEL			SUPPORT			SALVAGE SIGN SPECIAL	INSTALL SIGN SPECIAL
	LEGEND	SIZE (W x H)	MOUNTING HEIGHT	TYPE	RISER POST SIZE	NUMBER OF POSTS	(A)	(A)
		INCH	FEET		INCHES		EACH	EACH
S-501	FOLEY RD	x	7	SQ-SOIL	2	1	1	1
	HIGHLAND SCENIC RD	x	7	SQ-SOIL				
S-502	ASHDALE LN	x	7	SQ-SOIL	2	1	1	1
	HIGHLAND SCENIC RD	x	7	SQ-SOIL				
S-503	CEDARDALE LN	x	7	SQ-SOIL	2	1	1	1
	HIGHLAND SCENIC RD	x	7	SQ-SOIL				
						GROUP SUBTOTAL	3	3
						PROJECT TOTAL	3	3

DATE: 4/20/2026 TIME: 9:51:35 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-440sgn-001.dgn

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DESIGNED BY:	BB
CHECKED BY:	MF

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SIGNATURE: Mallori Fitzpatrick
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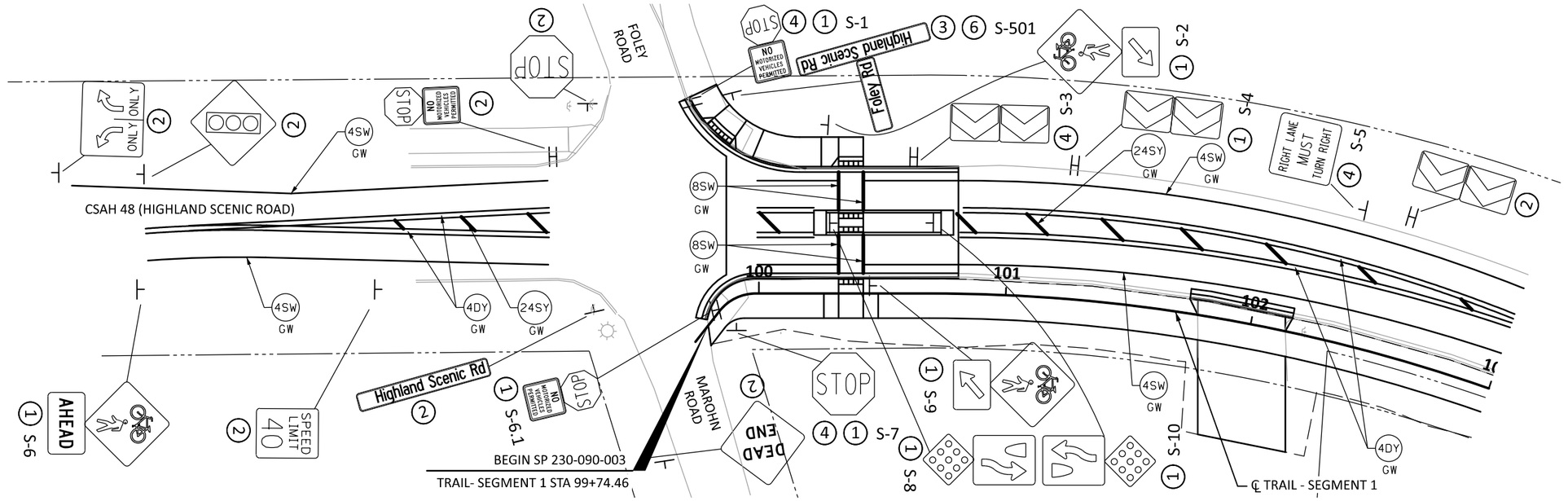
DATE: 4/20/2026 LIC. NO. 58640

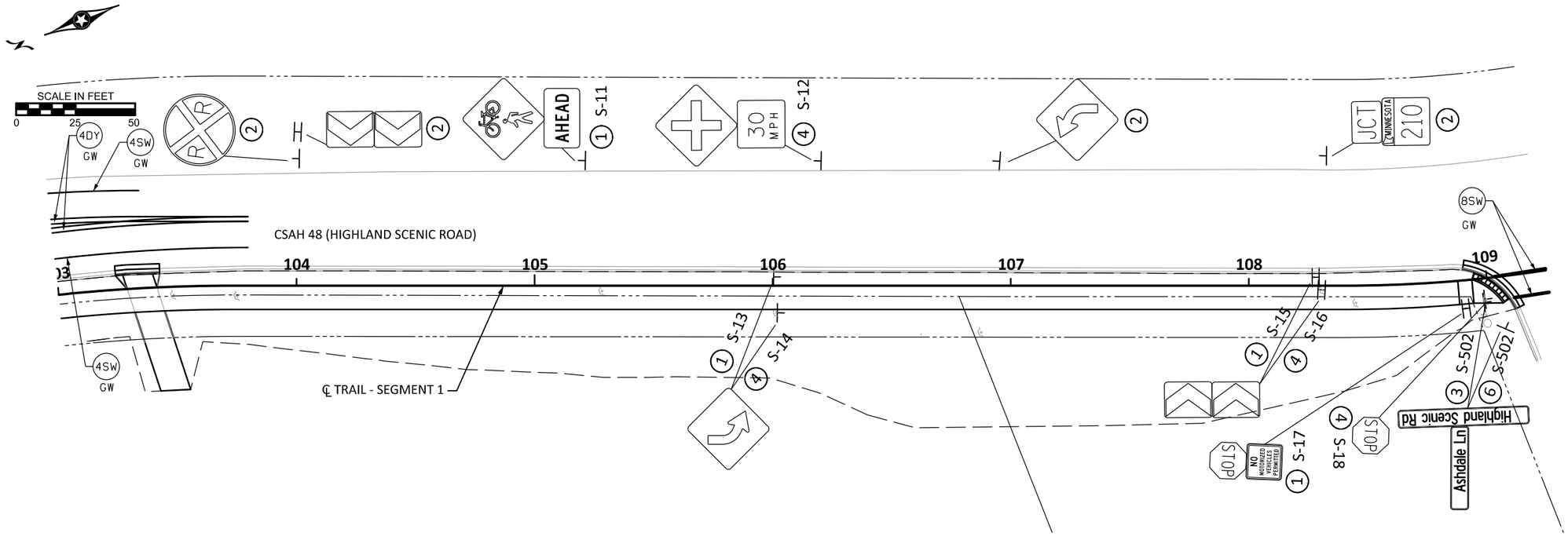
wsb

City of Baxter
CSAH 48 Trail
Baxter, Minnesota

SIGNING & STRIPING PLAN

SP 230-090-003 / SP 018-070-024





SIGNING LEGEND

1. FURNISH & INSTALL
2. INPLACE
3. SALVAGE
4. REMOVE
6. INSTALL

STRIPING LEGEND

CIRCLE - MULTI COMP

ARROWS- MULTI-COMP GR IN (WR)

CIRCLE - MULTI COMP

1ST DIGIT WIDTH
4",6",8",24"

2ND DIGIT PATTERN
S = SOLID
B = BROKEN
D = DOUBLE
T = DOTTED

3RD DIGIT COLOR
W = WHITE
Y = YELLOW
B = BLACK

G= GROUND IN
W = WET REFLECTIVE

DRAWN BY:	BB
DESIGNED BY:	BB
CHECKED BY:	MF

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SIGNATURE: Mallori Fitzpatrick
PRINTED NAME: MALLORI FITZPATRICK, PE
DATE: 4/20/2026 LIC. NO. 58640

wsb

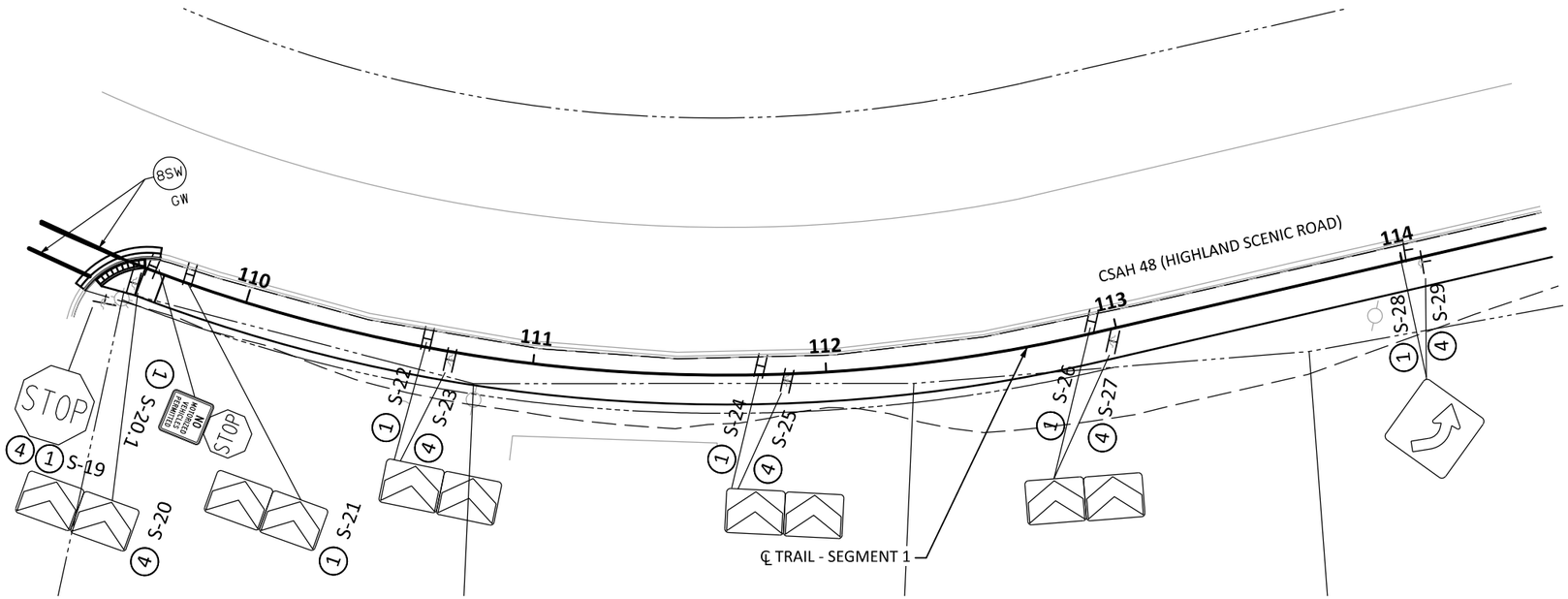
City of Baxter
CSAH 48 Trail
Baxter, Minnesota

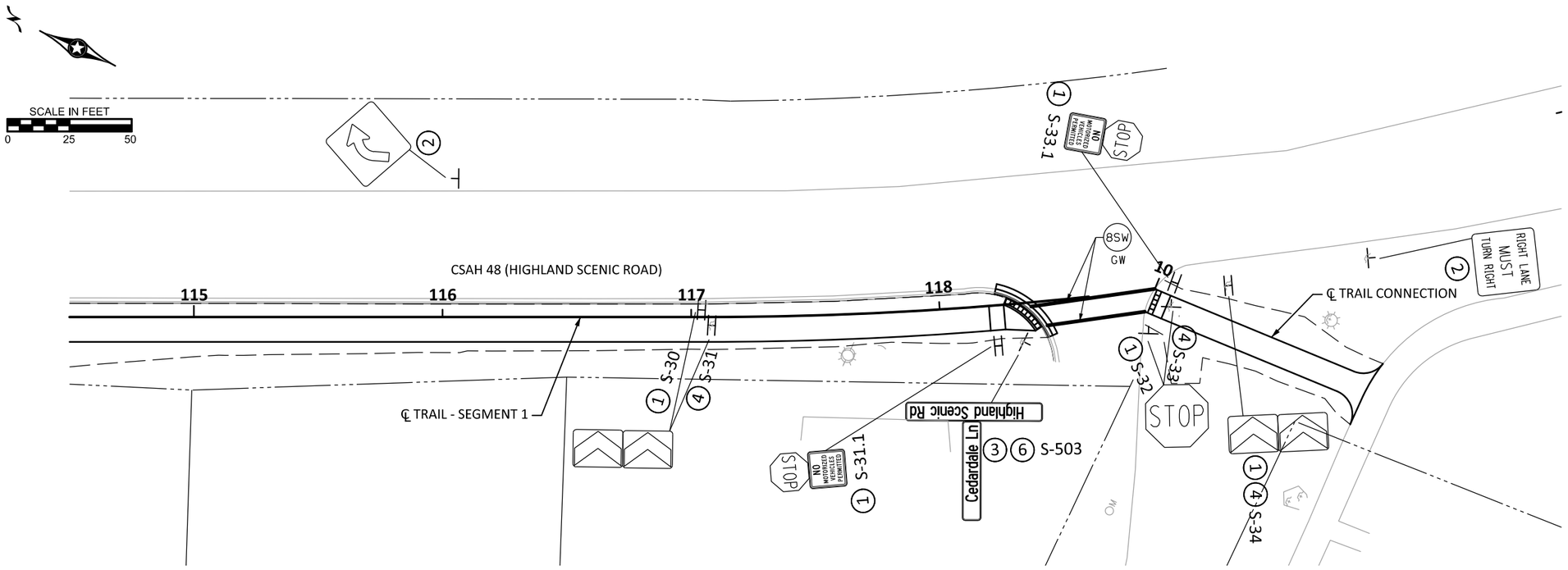
SIGNING & STRIPING PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 91 of 100 Sheets

DATE: 4/20/2026 TIME: 9:51:37 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-440sgn-001.dgn





SIGNING LEGEND

1	FURNISH & INSTALL
2	INPLACE
3	SALVAGE
4	REMOVE
6	INSTALL

STRIPING LEGEND

CIRCLE - MULTI COMP

ARROWS- MULTI-COMP GR IN (WR)

1ST DIGIT WIDTH
4",6",8",24"

CIRCLE - MULTI COMP

2ND DIGIT PATTERN
S = SOLID
B = BROKEN
D = DOUBLE
T = DOTTED

3RD DIGIT COLOR
W = WHITE
Y = YELLOW
B = BLACK

G= GROUND IN
W = WET REFLECTIVE

DRAWN BY:	BB
DESIGNED BY:	BB
CHECKED BY:	MF

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CSAH 48 Trail
Baxter, Minnesota

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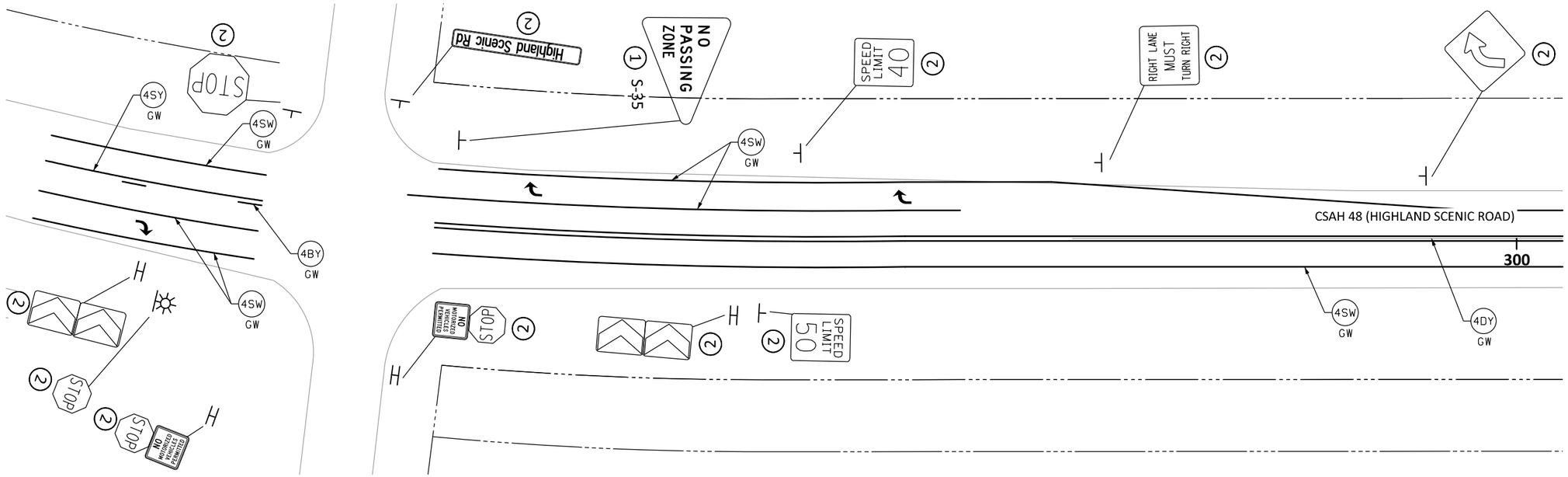
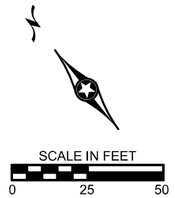
SP 230-090-003 / SP 018-070-024

Sheet No. 92 of 100 Sheets

DATE: 4/20/2026 TIME: 9:51:38 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-440sgn-001.dgn



SCALE IN FEET
0 25 50



SCALE IN FEET
0 25 50

SIGNING LEGEND

1. FURNISH & INSTALL
2. INPLACE
3. SALVAGE
4. REMOVE
6. INSTALL

STRIPING LEGEND

CIRCLE - MULTI COMP

ARROWS- MULTI-COMP GR IN (WR)

1ST DIGIT
WIDTH
4",6",8",24"

CIRCLE - MULTI COMP

2ND DIGIT
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City of Baxter
CSAH 48 Trail
Baxter, Minnesota

SIGNING & STRIPING PLAN

SP 230-090-003 / SP 018-070-024

Sheet No. 93 of 100 Sheets

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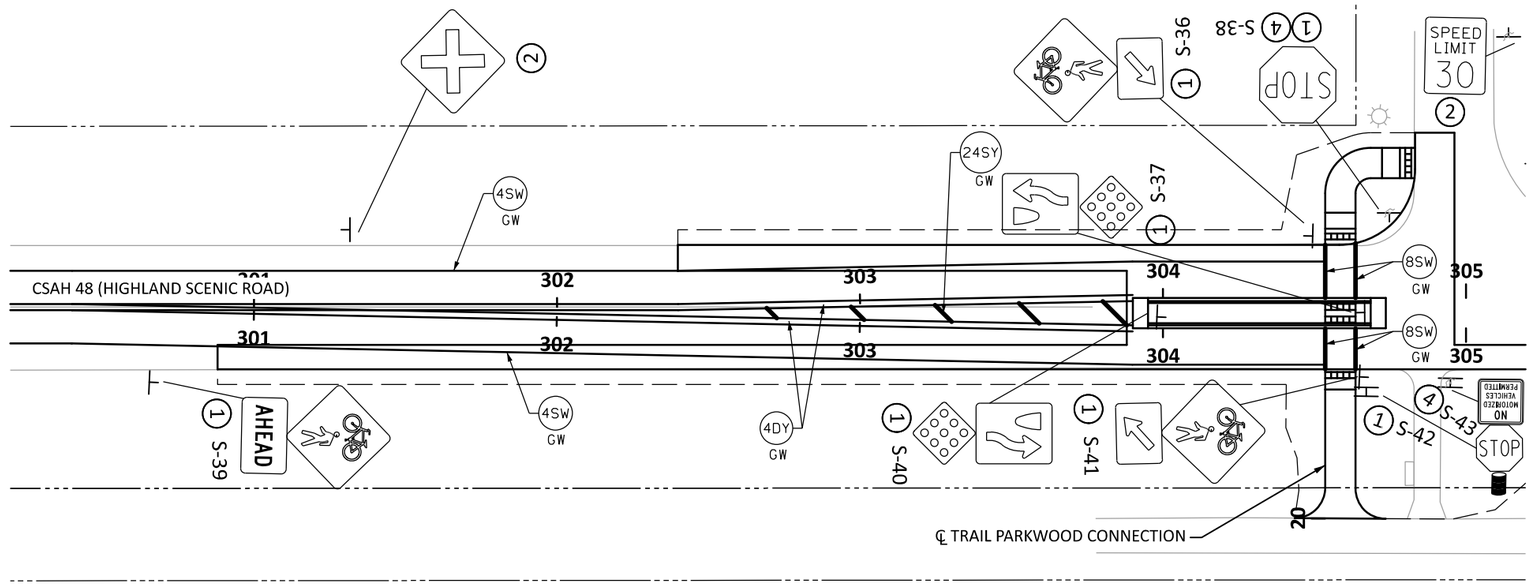

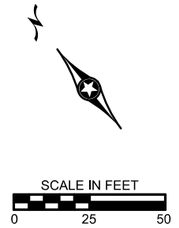

SIGNING LEGEND

(1)	FURNISH & INSTALL
(2)	INPLACE
(3)	SALVAGE
(4)	REMOVE
(6)	INSTALL

STRIPING LEGEND

CIRCLE - MULTI COMP

ARROWS- MULTI-COMP GR IN (WR)

1ST DIGIT WIDTH
4",6",8",24"

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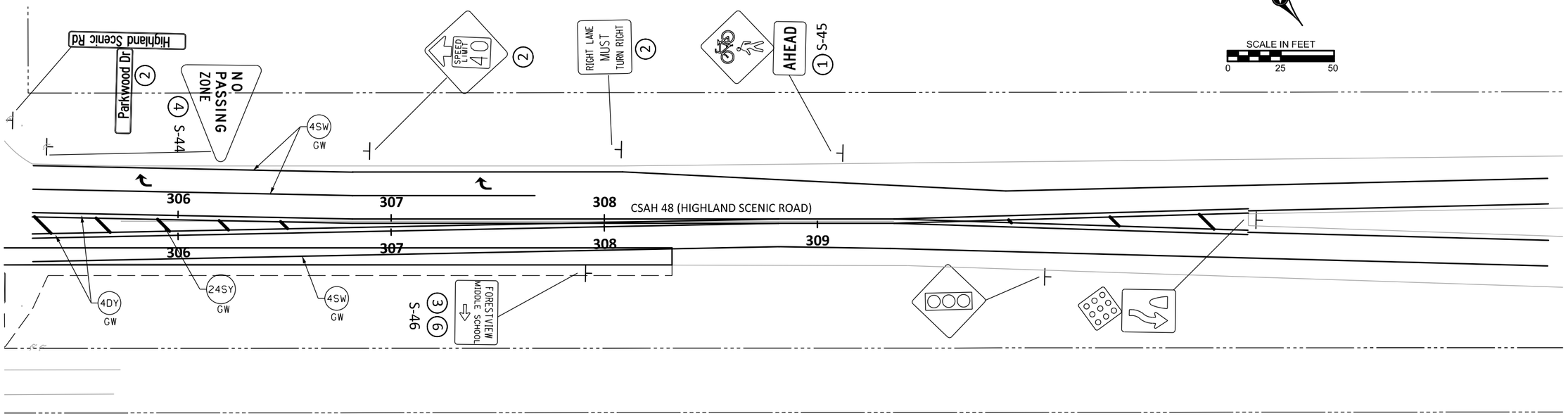

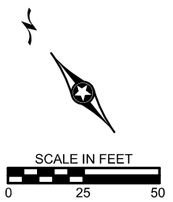

DRAWN BY: BB DESIGNED BY: BB CHECKED BY: MF	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	SIGNATURE: Mallori Fitzpatrick PRINTED NAME: MALLORI FITZPATRICK, PE DATE: 4/20/2026 LIC. NO. 58640	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	SIGNING & STRIPING PLAN	SP 230-090-003 / SP 018-070-024 Sheet No. 94 of 100 Sheets

DATE: 4/20/2026 TIME: 9:51:39 AM
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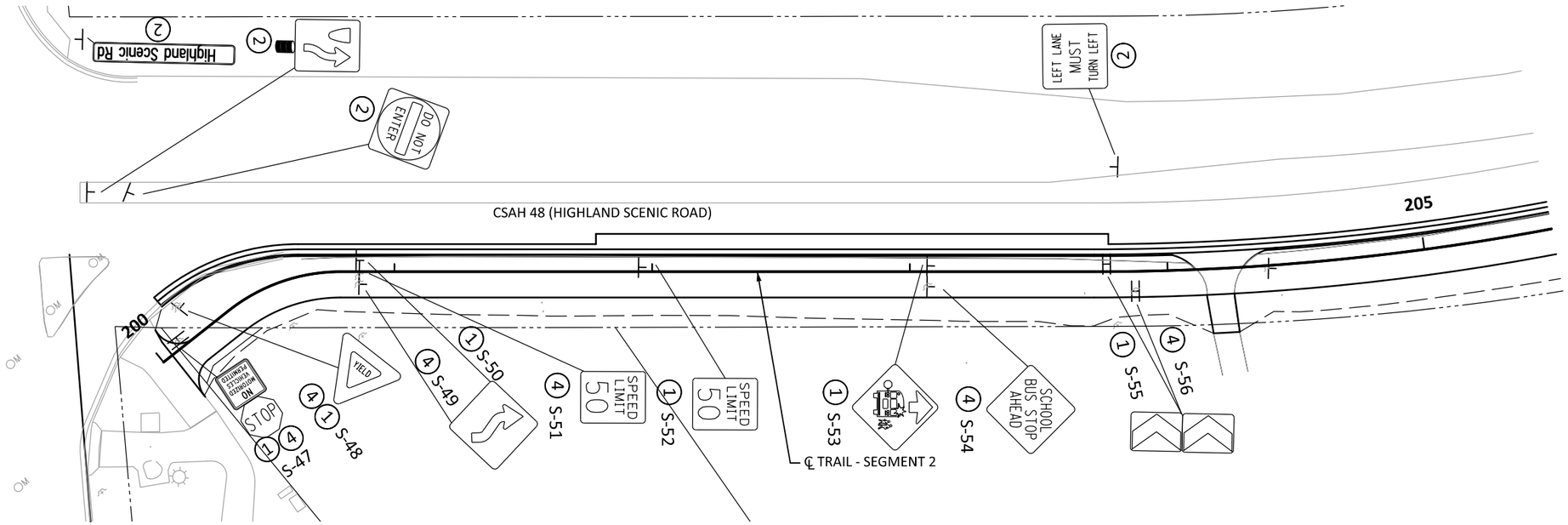

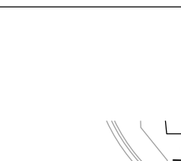

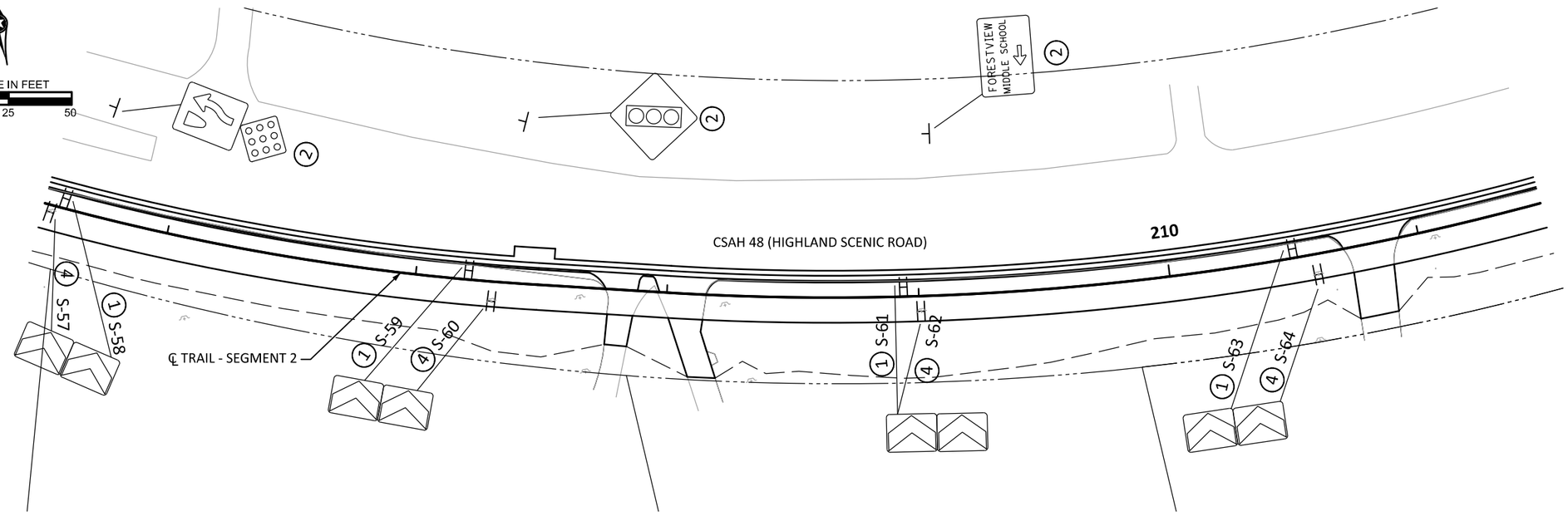

SIGNING LEGEND

1. FURNISH & INSTALL
2. INPLACE
3. SALVAGE
4. REMOVE
6. INSTALL

STRIPING LEGEND

CIRCLE - MULTI COMP

ARROWS- MULTI-COMP GR IN (WR)

CIRCLE - MULTI COMP

1ST DIGIT
WIDTH
4",6",8",24"

2ND DIGIT
PATTERN
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City of Baxter
CSAH 48 Trail
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SIGNING & STRIPING PLAN

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Sheet No. 95 of 100 Sheets

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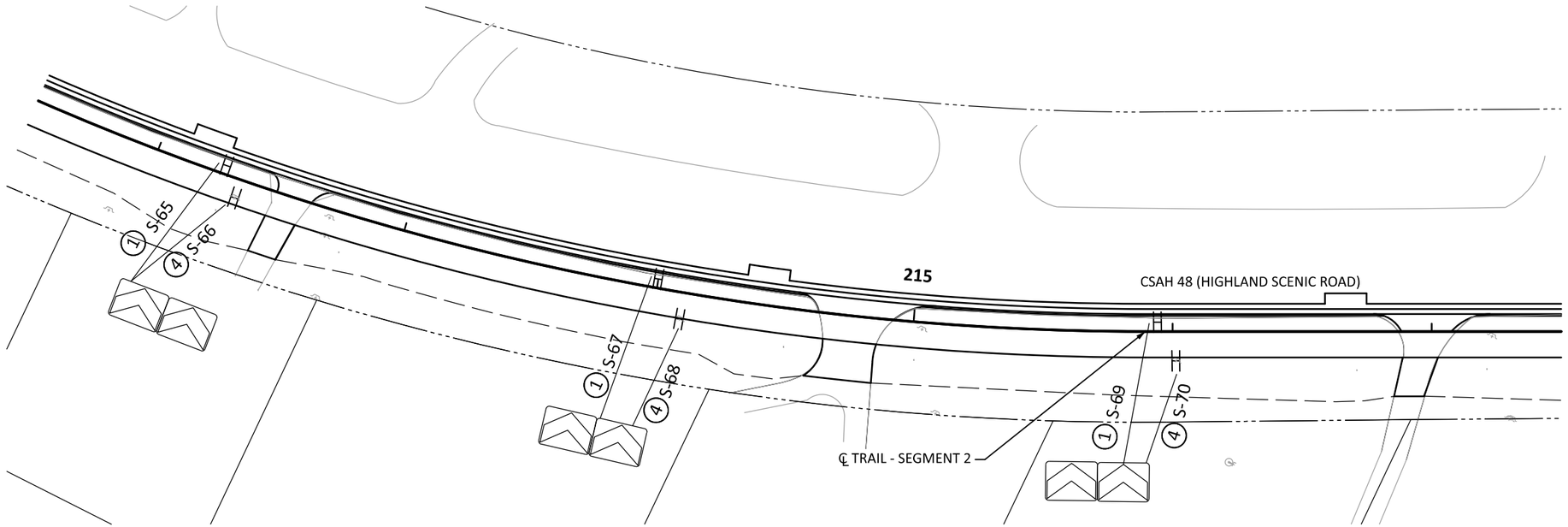

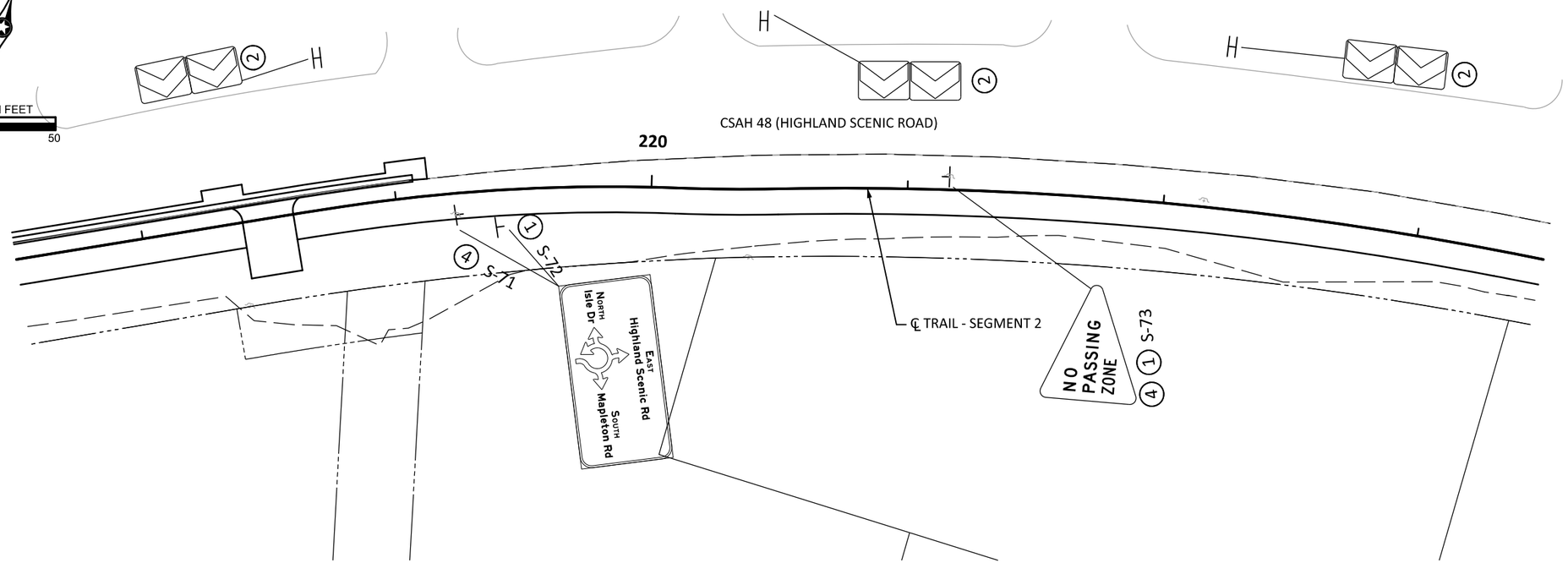

SIGNING LEGEND

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6. INSTALL

STRIPING LEGEND

CIRCLE - MULTI COMP

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4",6",8",24"

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CSAH 48 Trail
Baxter, Minnesota

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Sheet No. 96 of 100 Sheets

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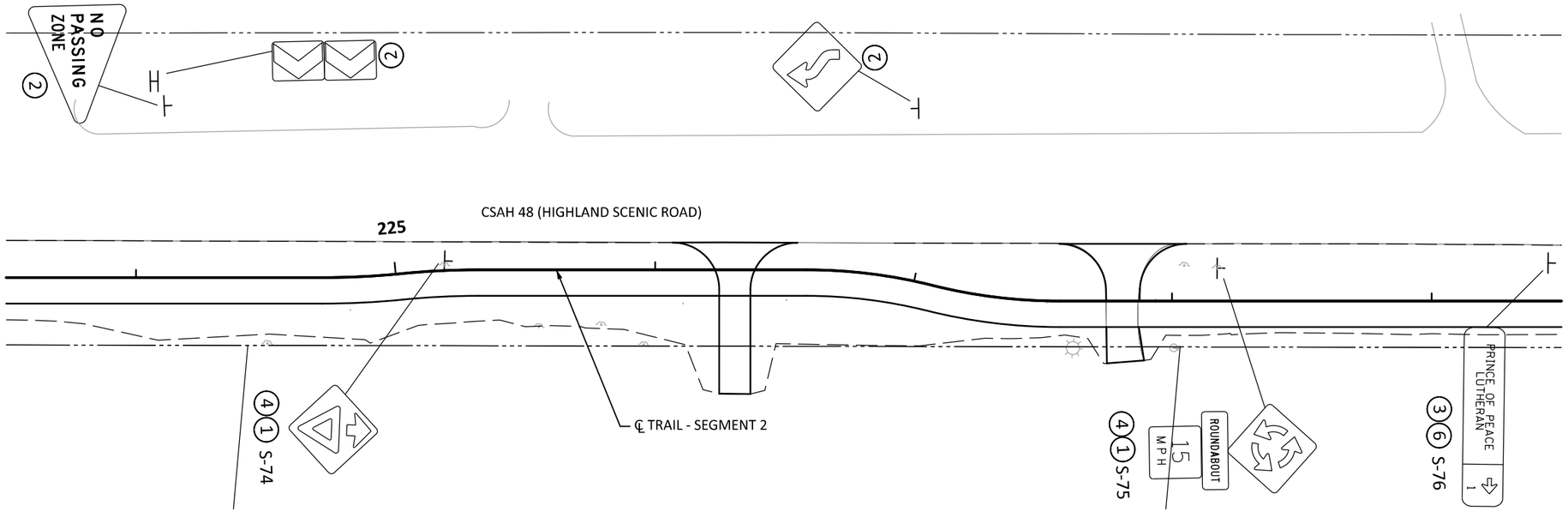
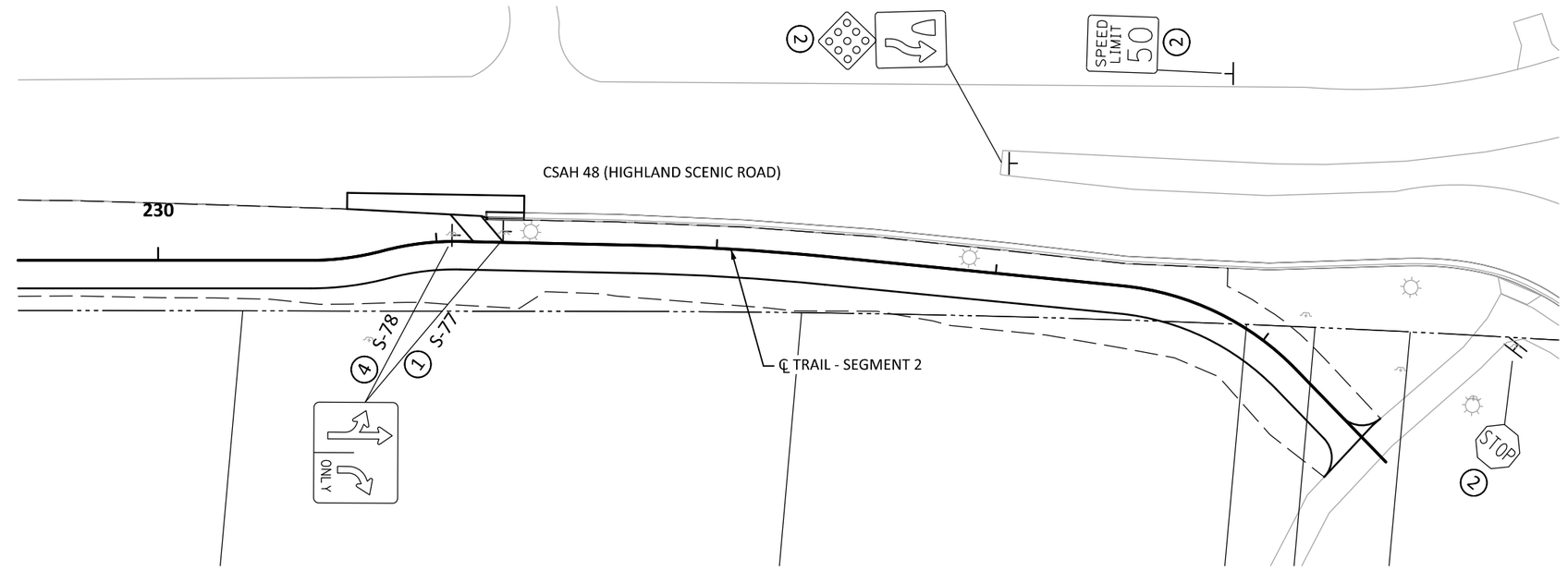


SCALE IN FEET
0 25 50



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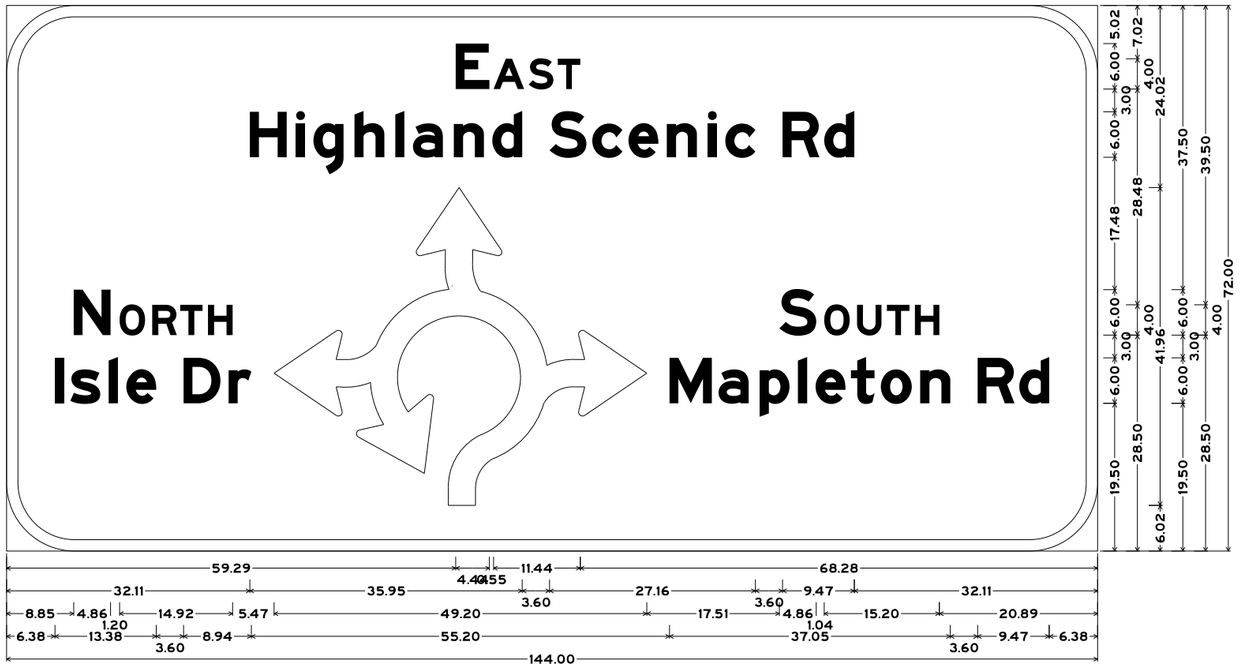

Roundabout 1:
9.00" Radius, 1.50" Border, White on Green:
"EAST". E Mod 2K: "Highland Scenic Rd". E Mod 2K 60□spacing: "NORTH". E Mod 2K: "Isle Dr". E Mod 2K 60□spacing: RA Arrow-4hd-RTL: "SOUTH". E Mod 2K: "Mapleton Rd". E Mod 2K 60□spacing:

NOTE: ALL DIMENSIONS ARE IN INCHES.

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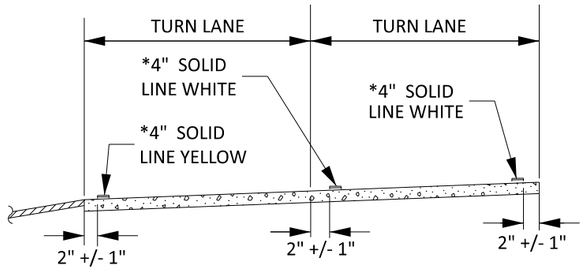
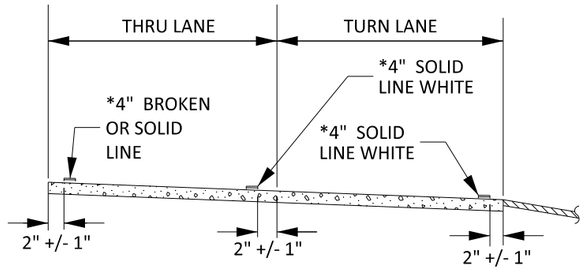
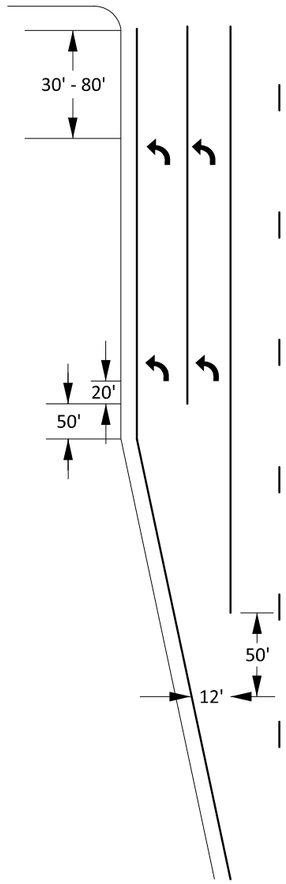
TURN LANE WITH ARROW MESSAGE

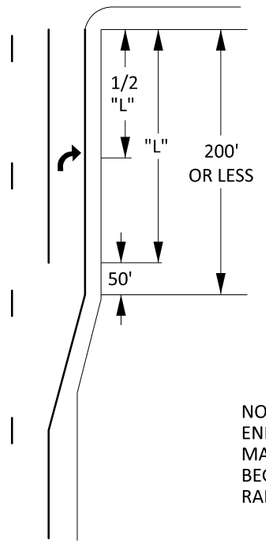
LEFT TURN LANE



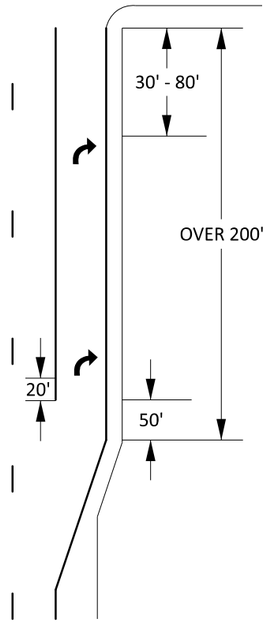
RIGHT TURN LANE







NOTE:
END PAVEMENT MARKINGS AT BEGINNING OF RADIUS



PUBLISHED BY OTE: 16 NOV 2021 | MODIFIED: 3 NOV 2025

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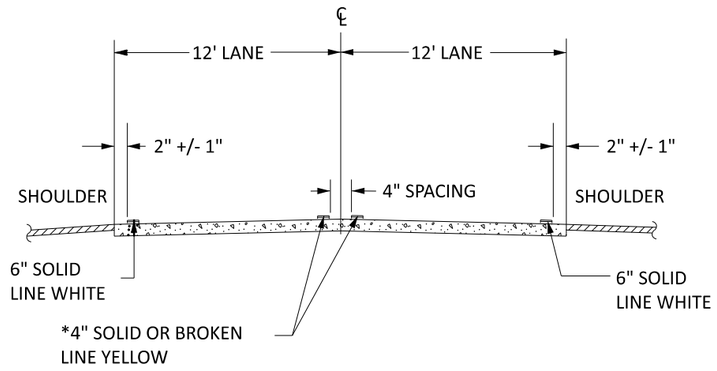
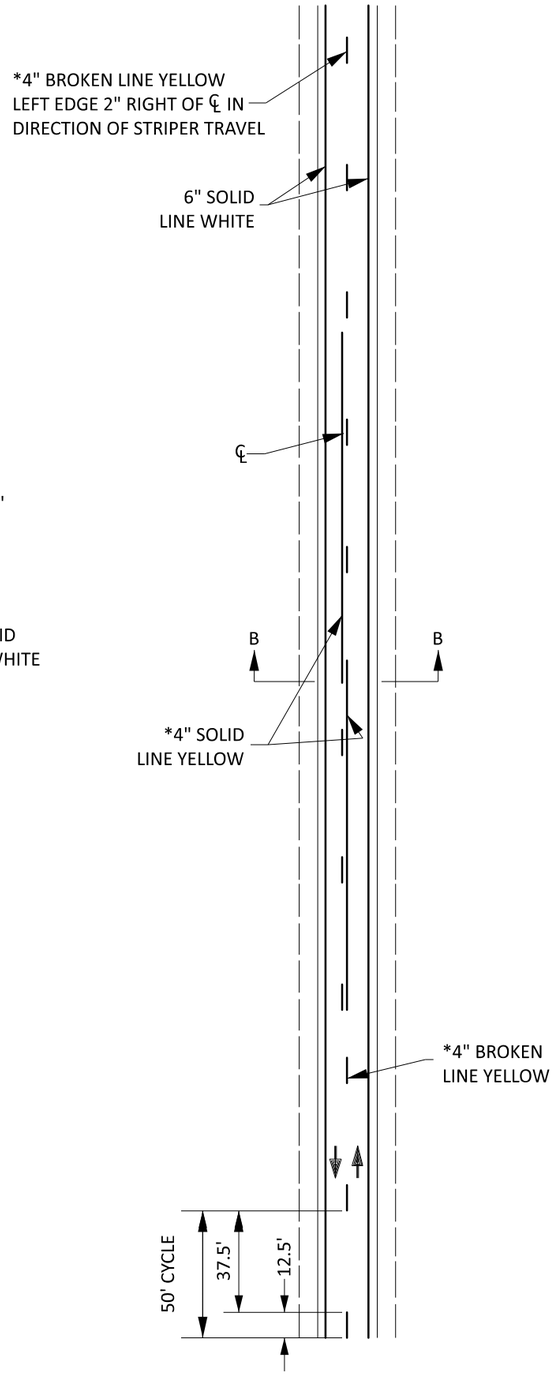
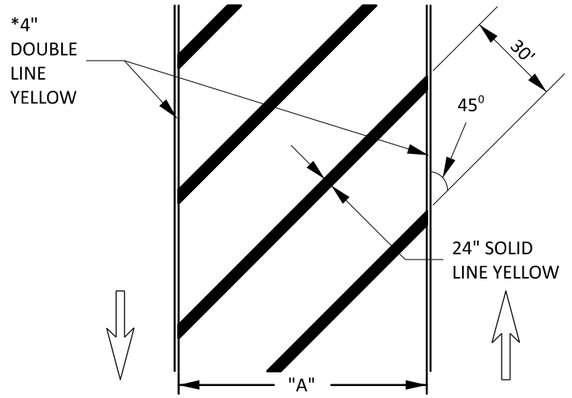
TWO-LANE, TWO-WAY



SECTION B-B



CROSSHATCHING



WHEN "A" IS LESS THAN 4' NO CROSSHATCHING REQUIRED.

= DIRECTION OF TRAVEL

PUBLISHED BY OTE: 26 SEPT 2024	MODIFIED: 3 NOV 2025	PUBLISHED BY OTE: 16 NOV 2021	MODIFIED: 3 NOV 2025

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DATE: 4/20/2026 TIME: 9:51:43 AM
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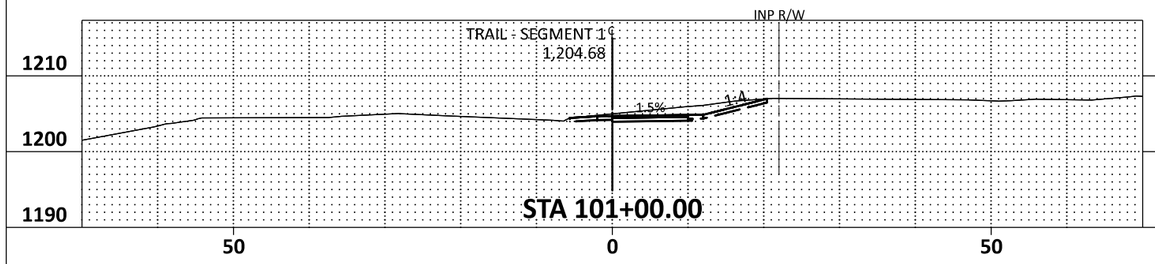
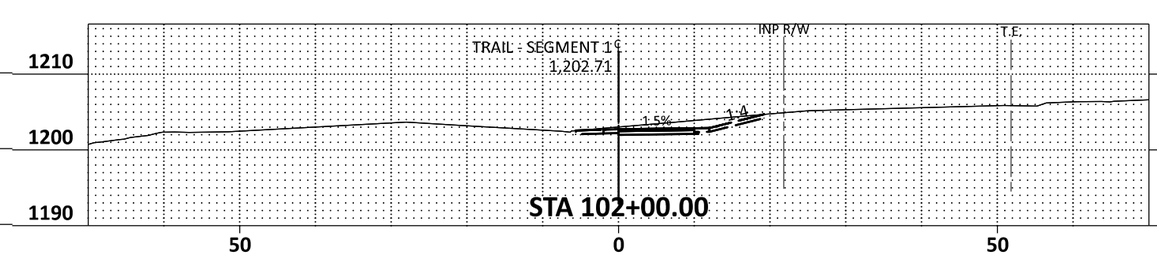
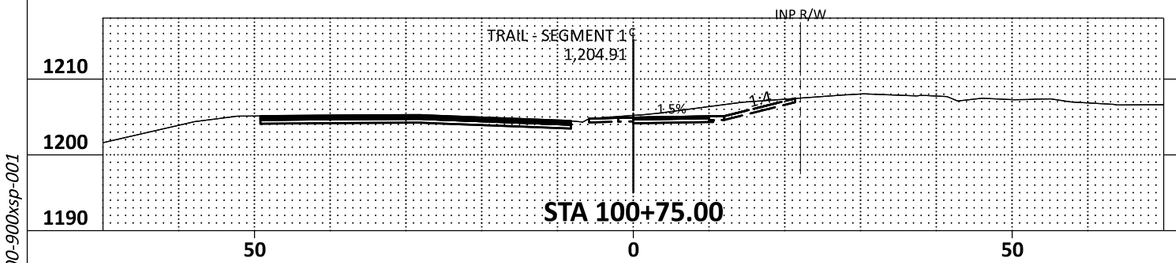
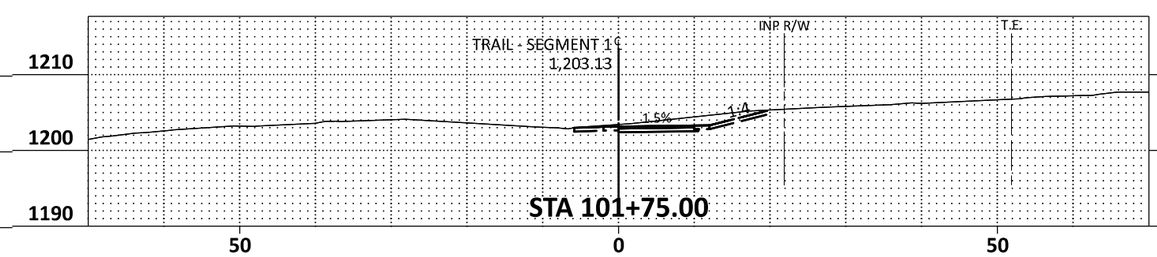
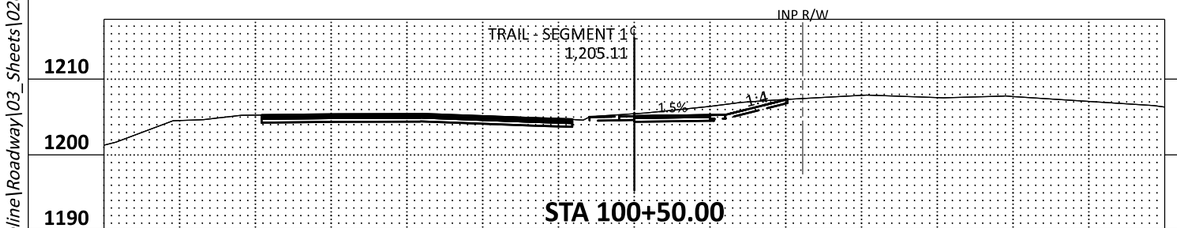
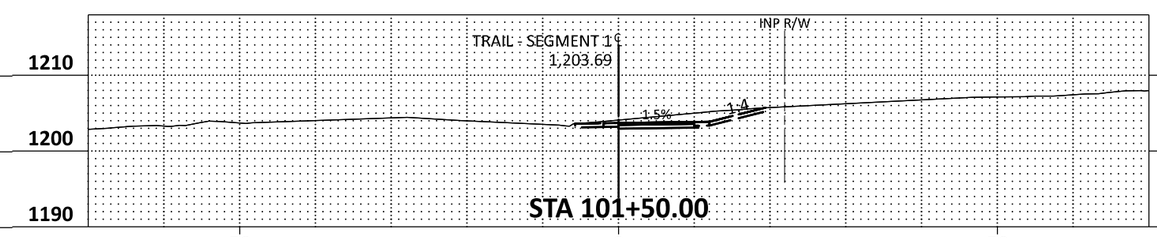


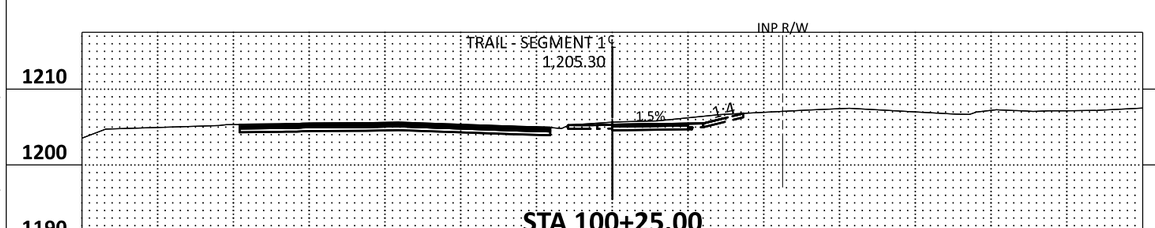


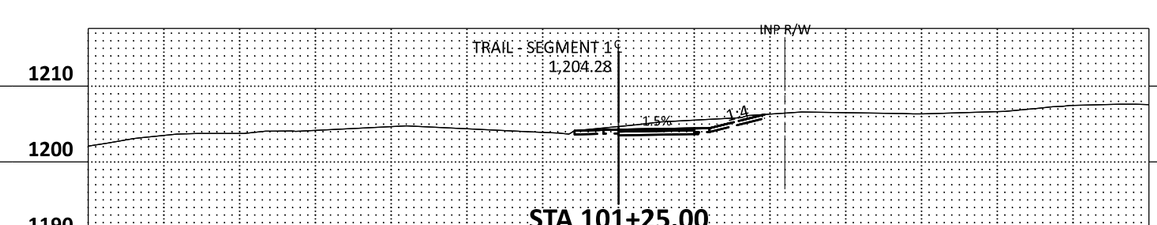






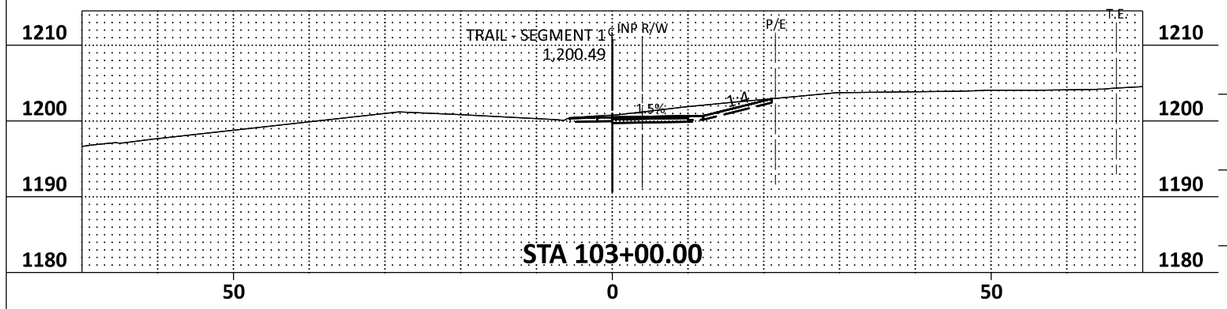


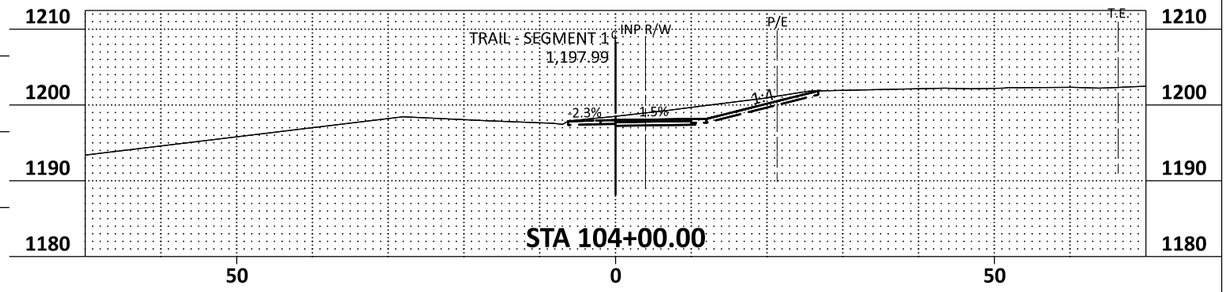


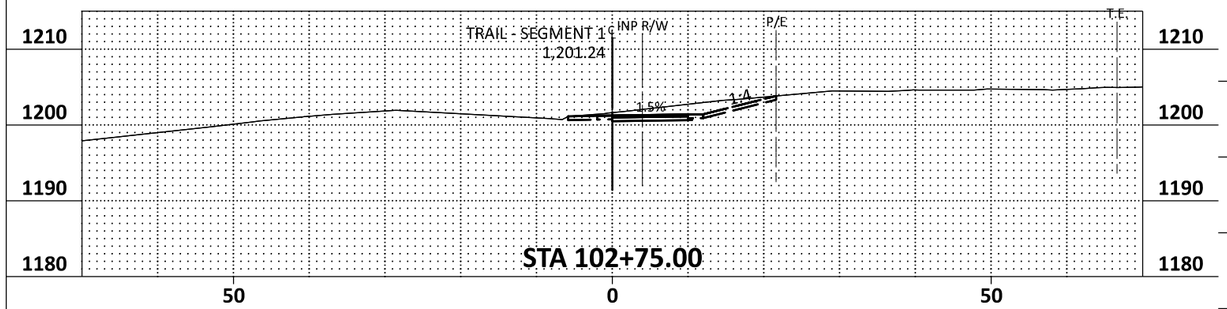


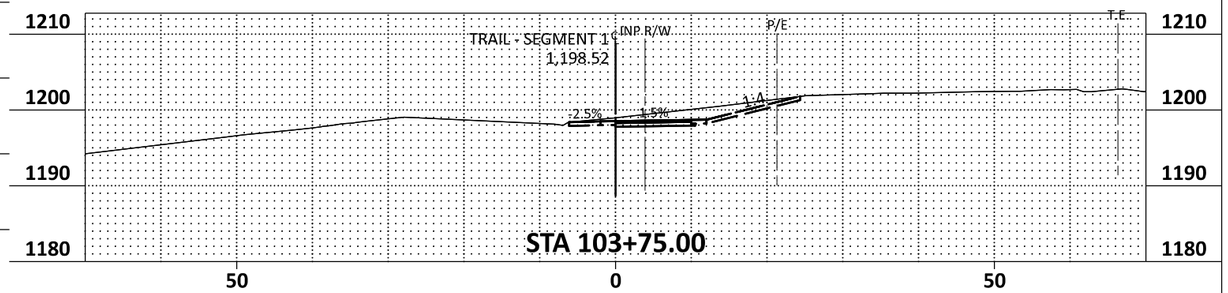
DATE: 4/20/2026 TIME: 9:51:55 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-001

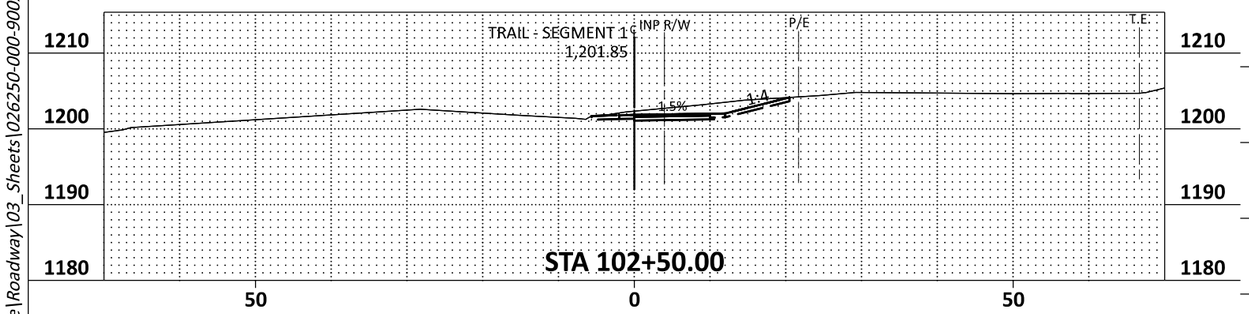
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK		City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X-1 of X27 Sheets

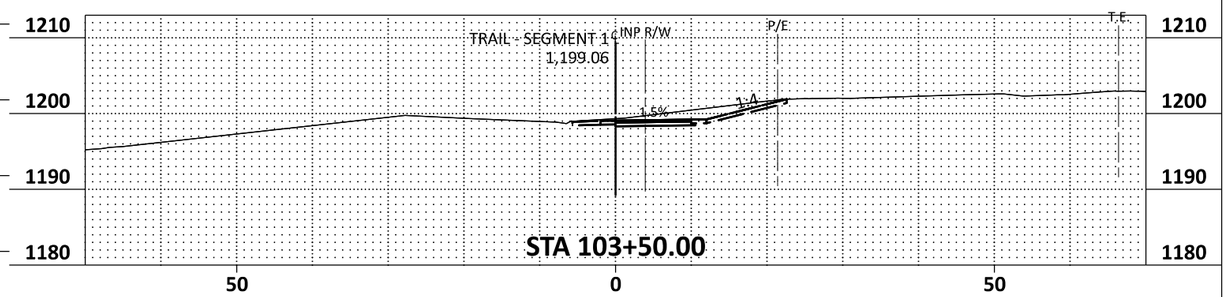


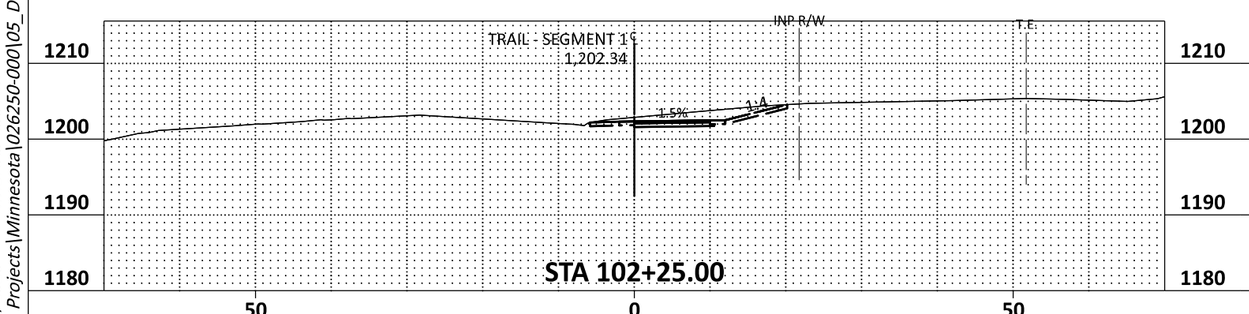


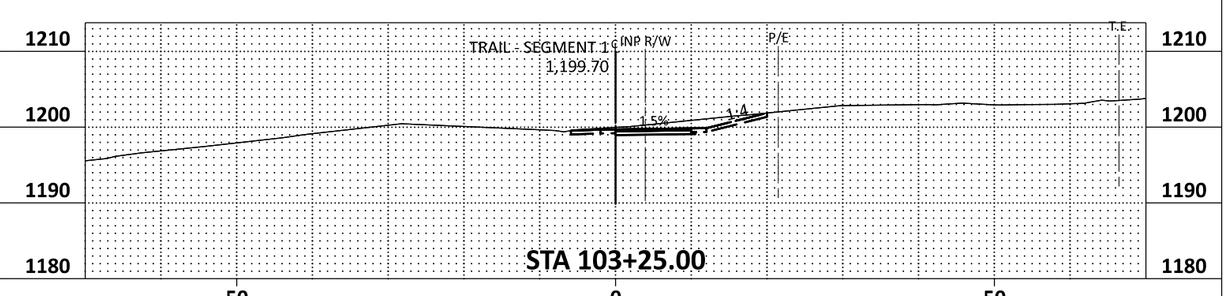






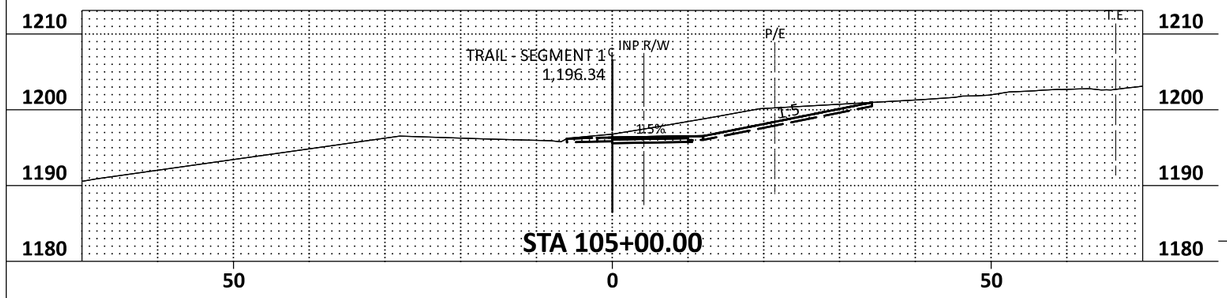


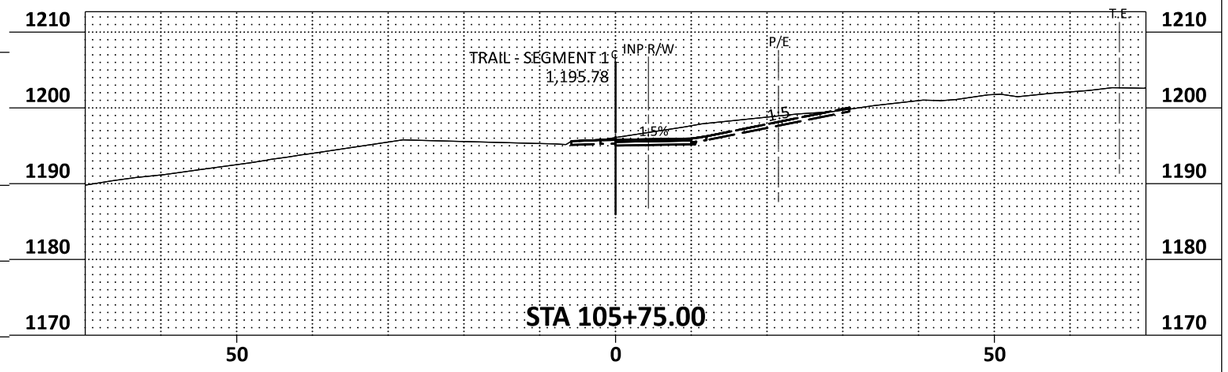


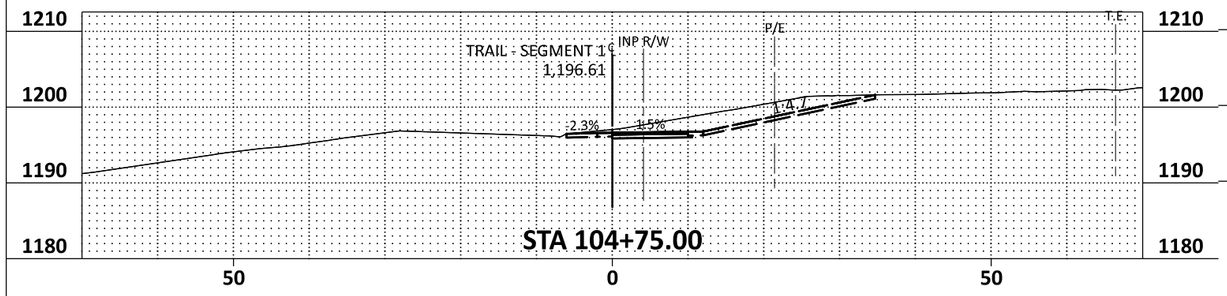


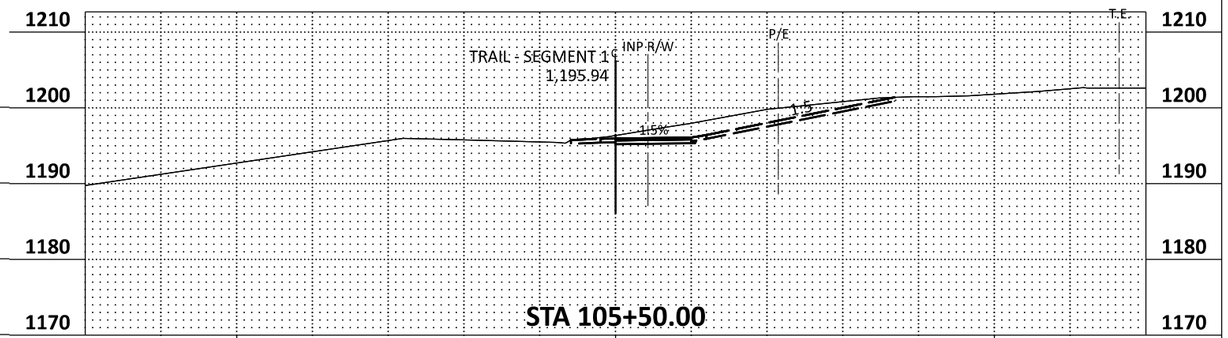
DATE: 4/20/2026 TIME: 9:51:56 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-001

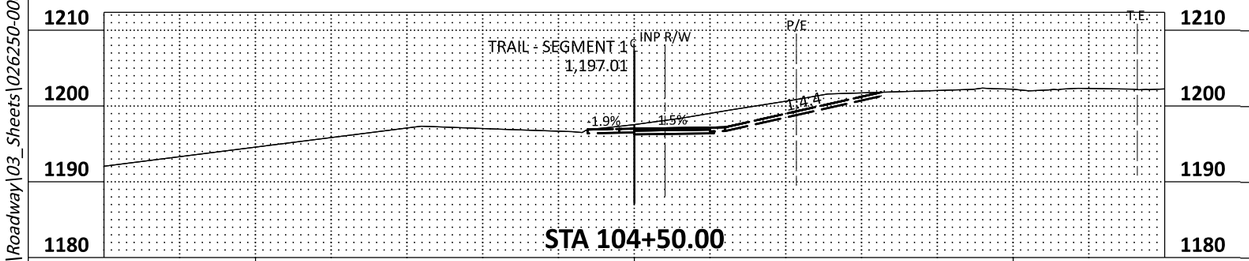
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X-2 of X27 Sheets

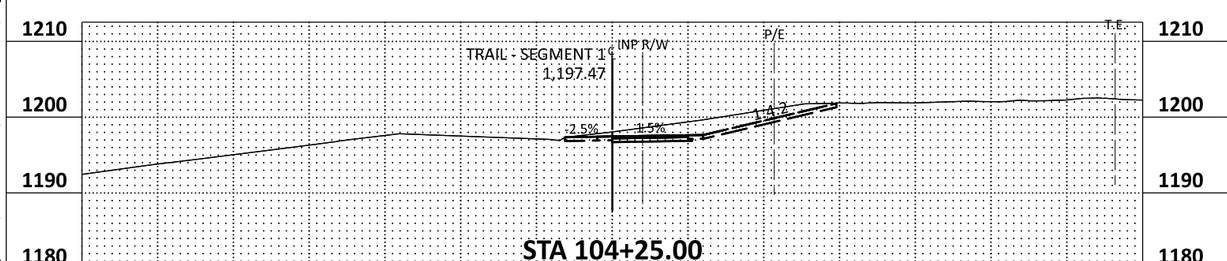


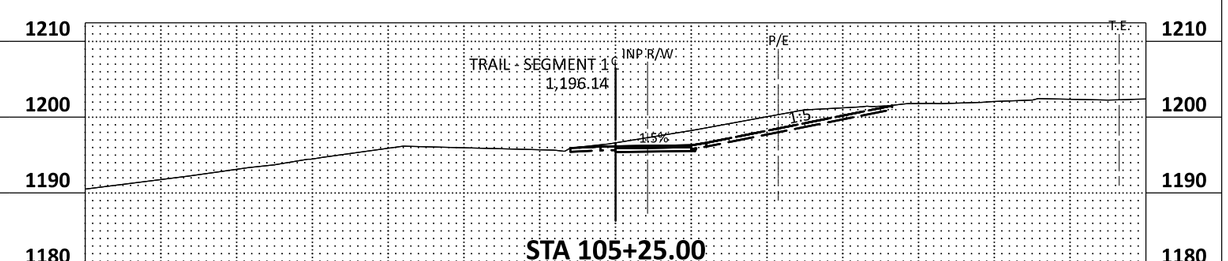






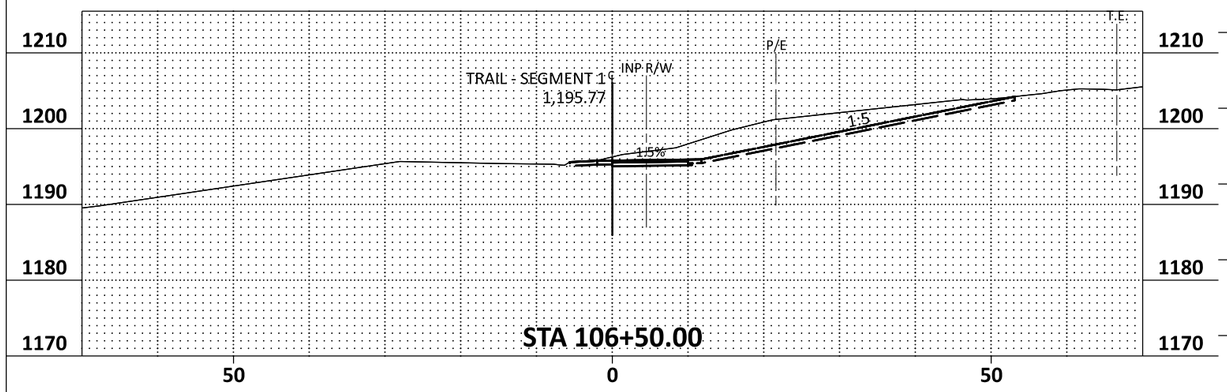


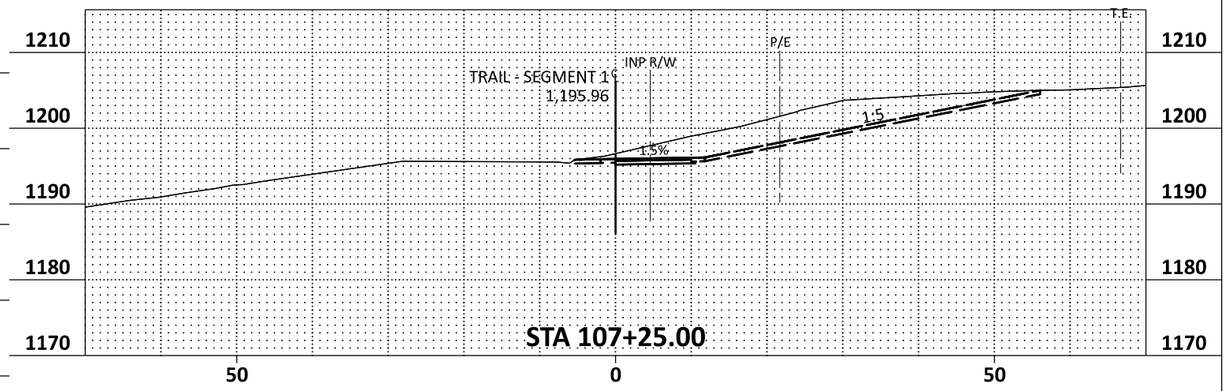


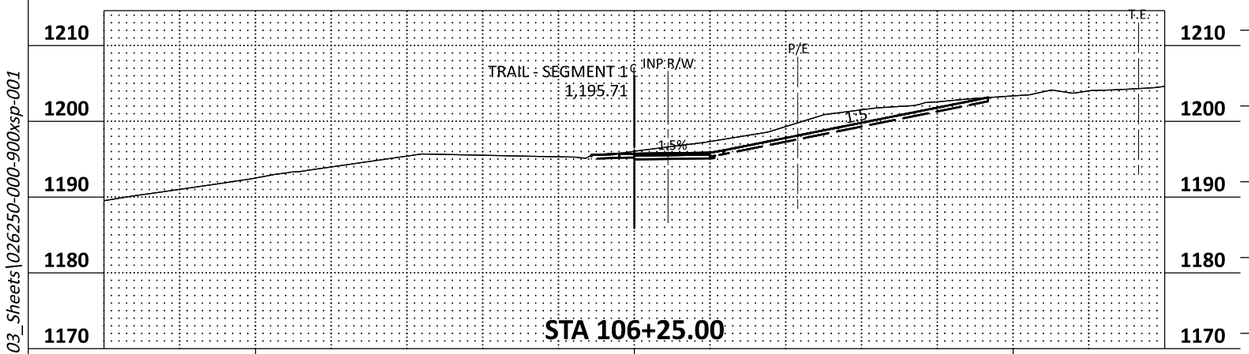


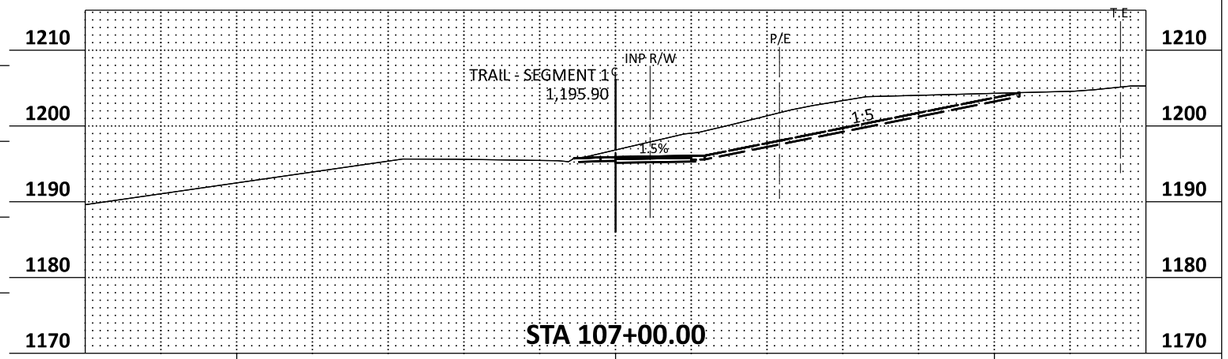
DATE: 4/20/2026 TIME: 9:51:58 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-001

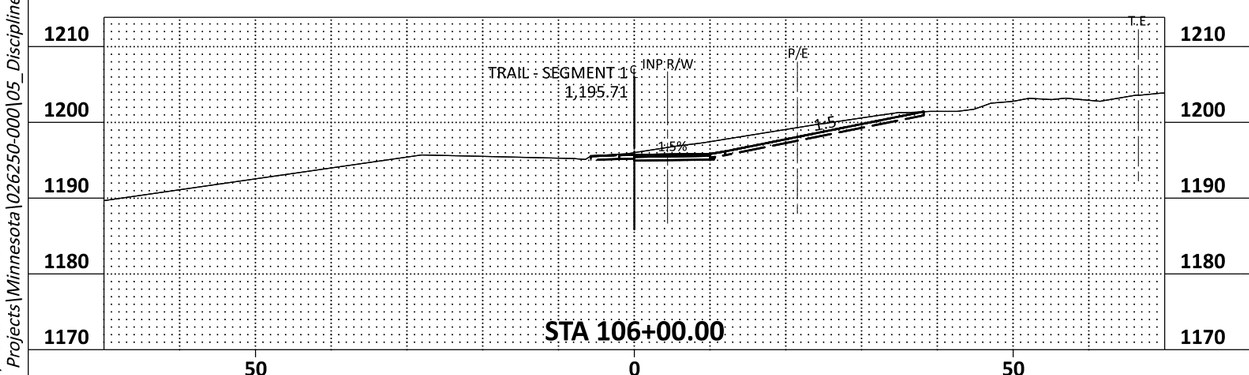
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X-3 of X27 Sheets

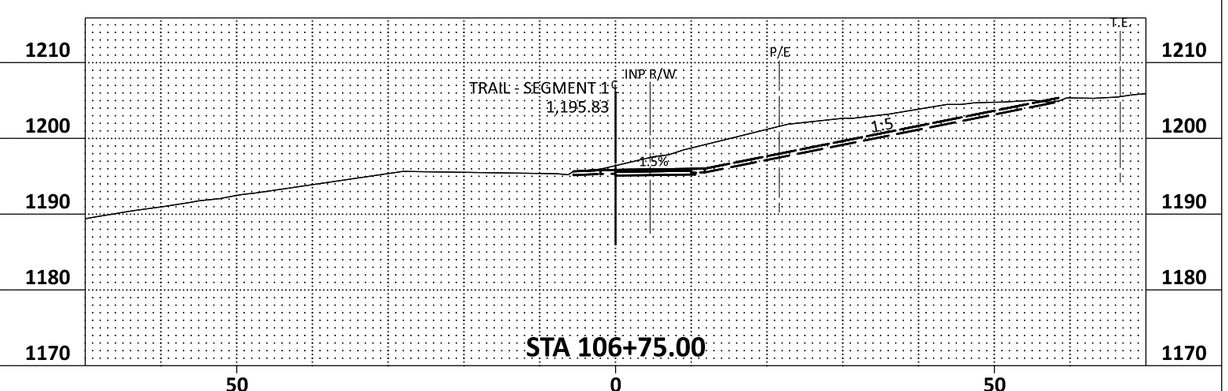






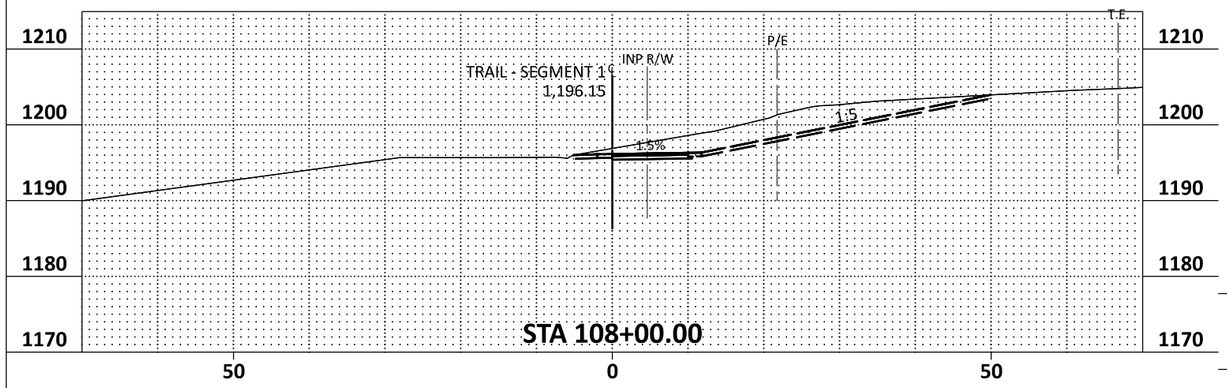


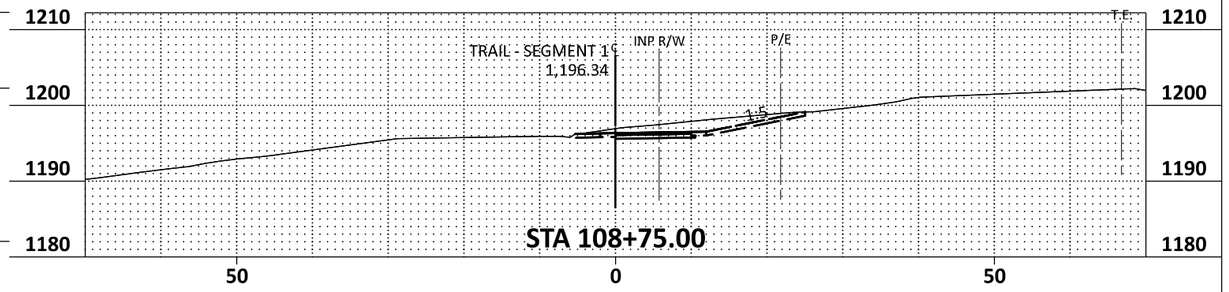


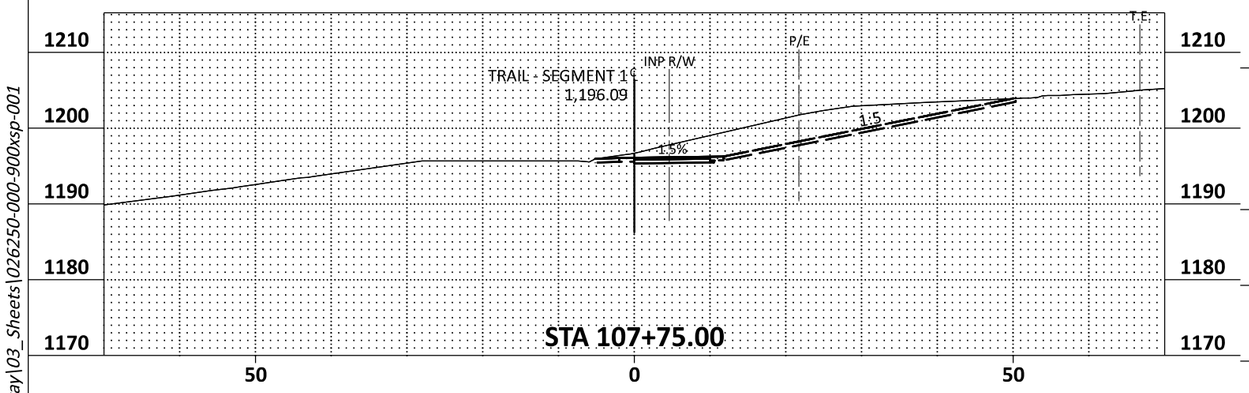


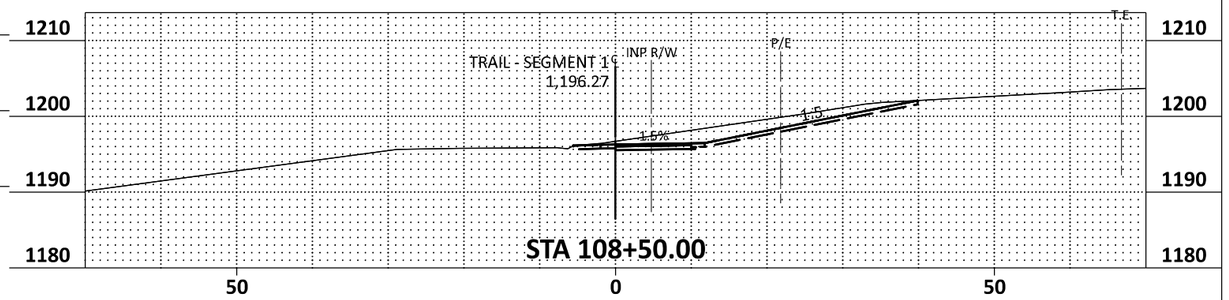
DATE: 4/20/2026 TIME: 9:51:59 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-001

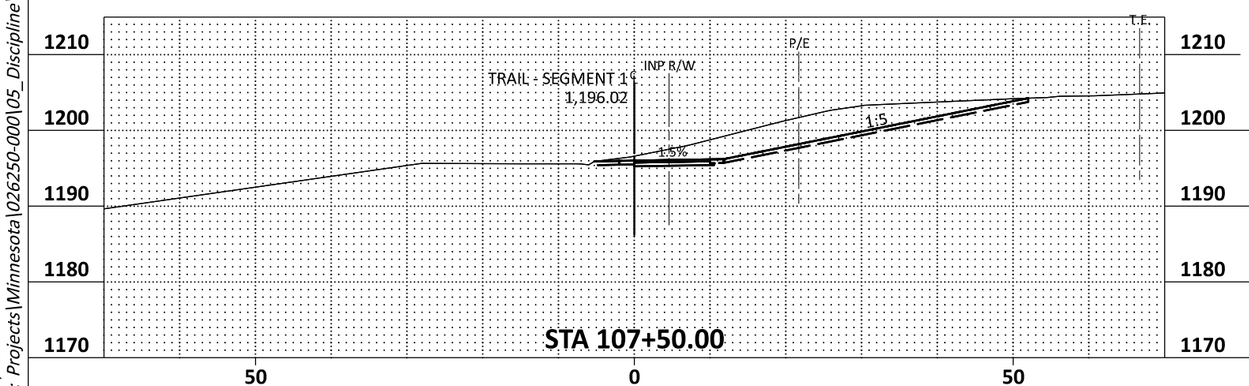
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK		wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X-4 of X27 Sheets

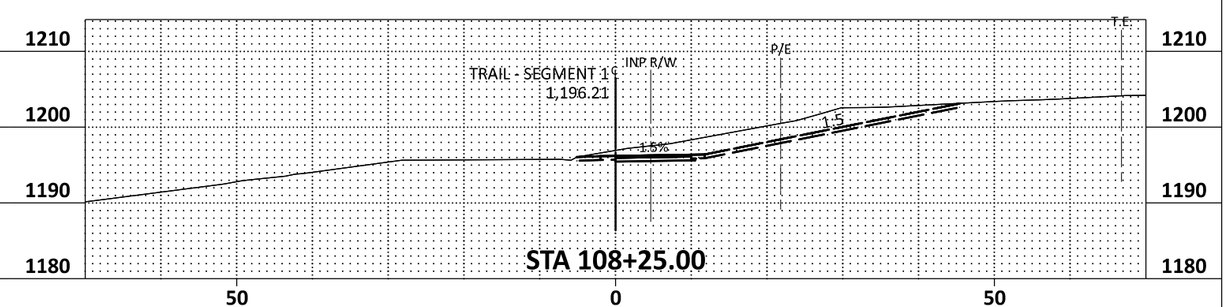






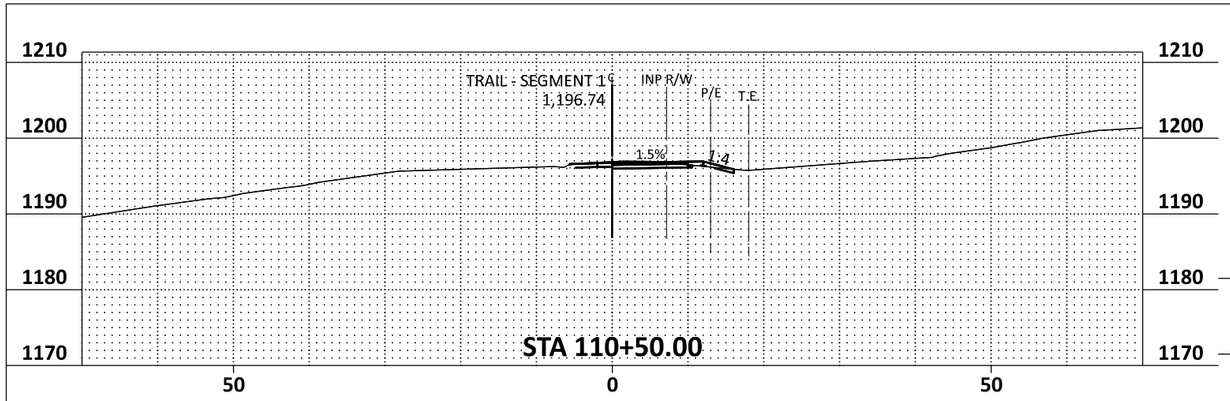


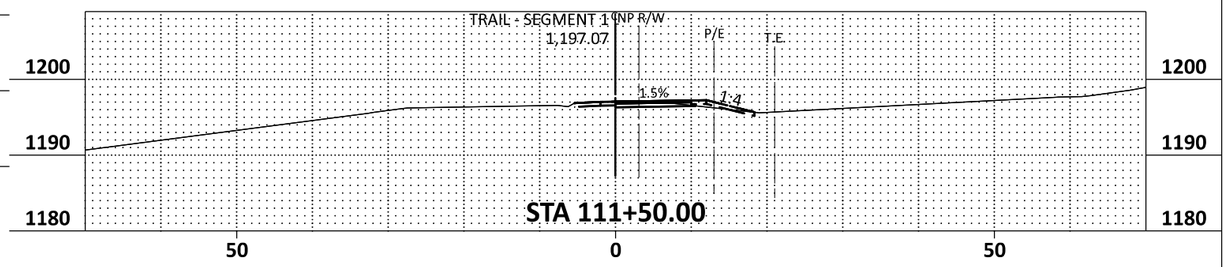


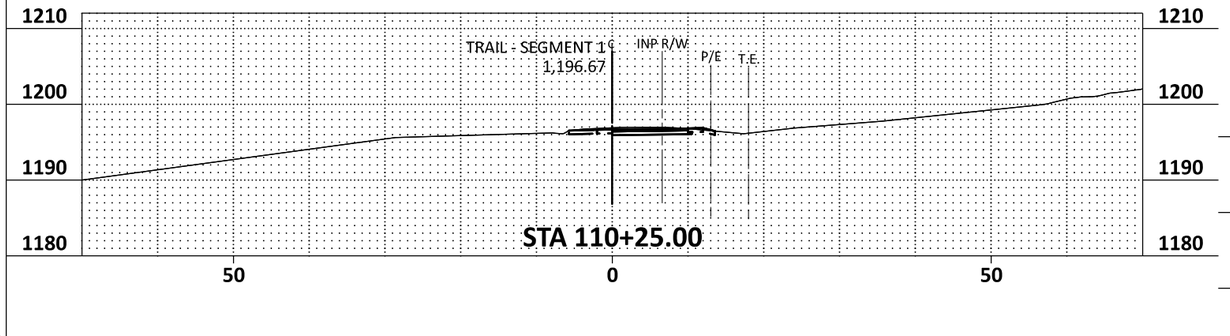


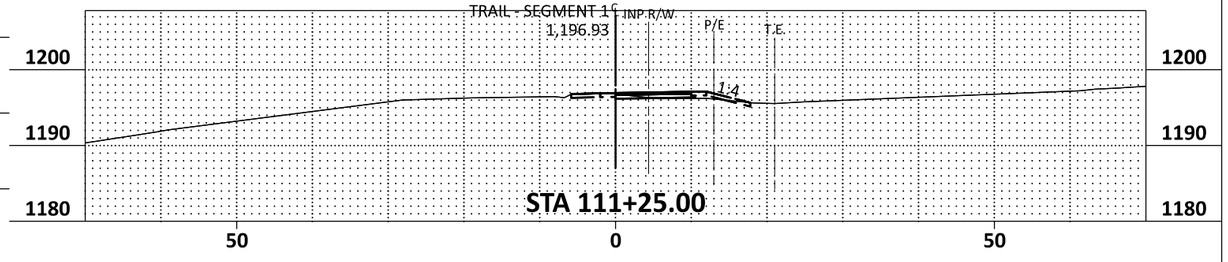
DATE: 4/20/2026 TIME: 9:52:02 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900ksp-001

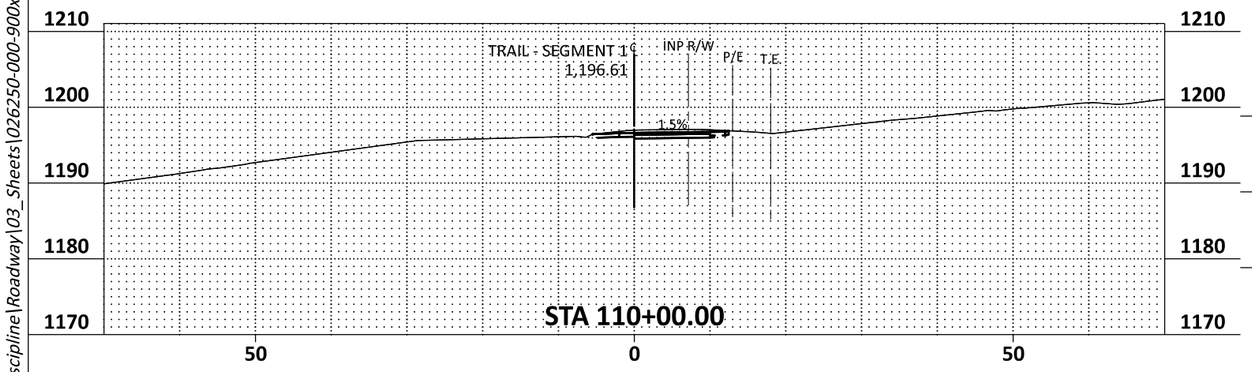
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK		wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X-5 of X27 Sheets

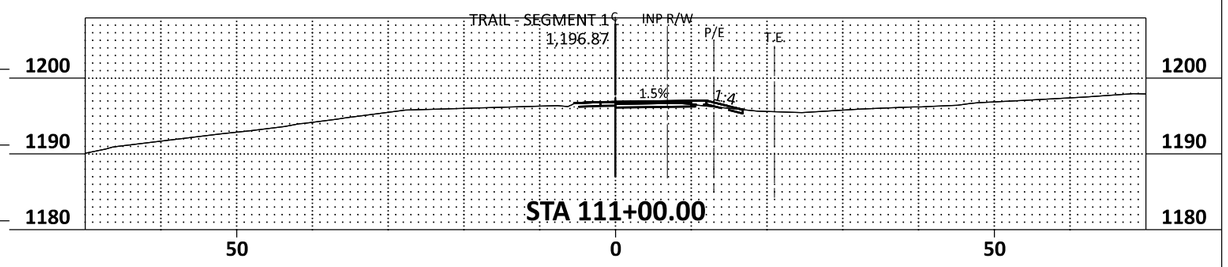


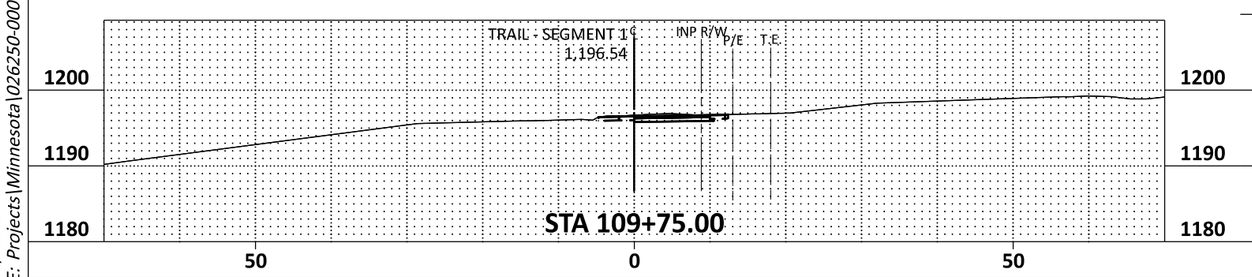


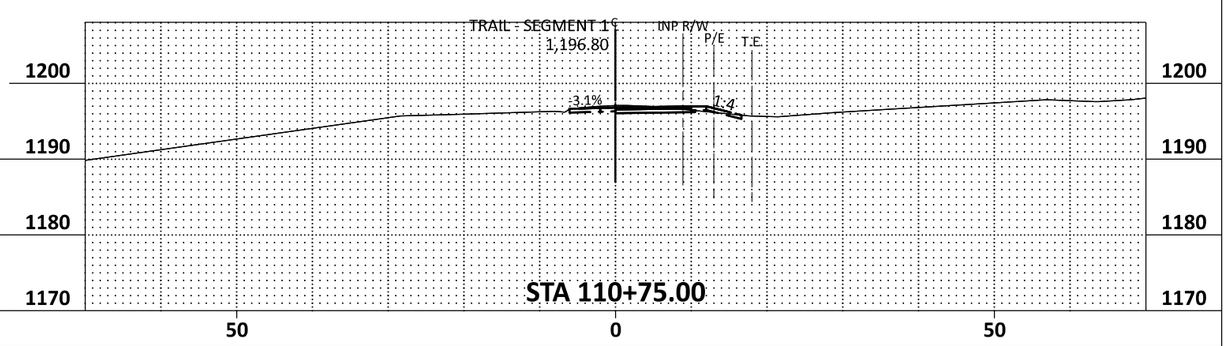






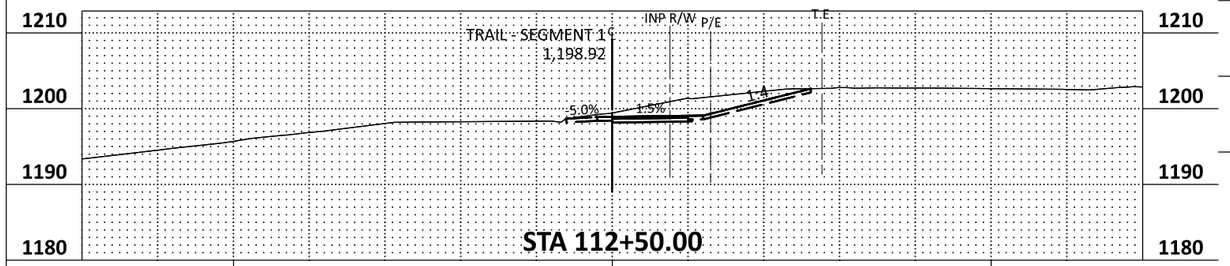


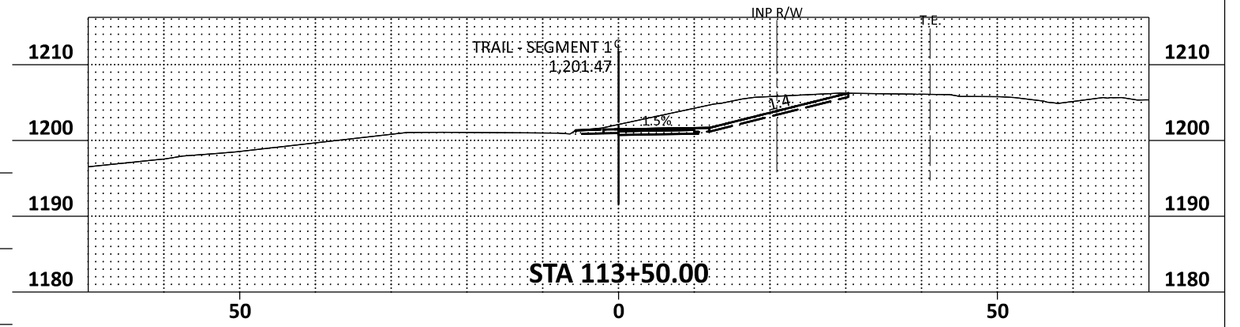


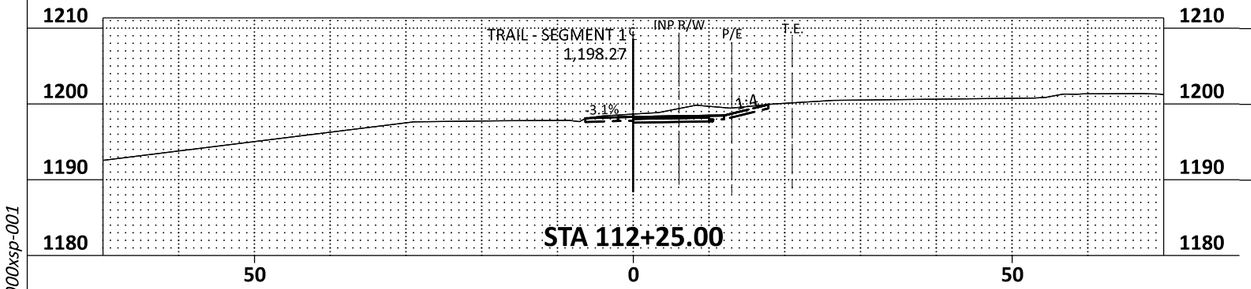


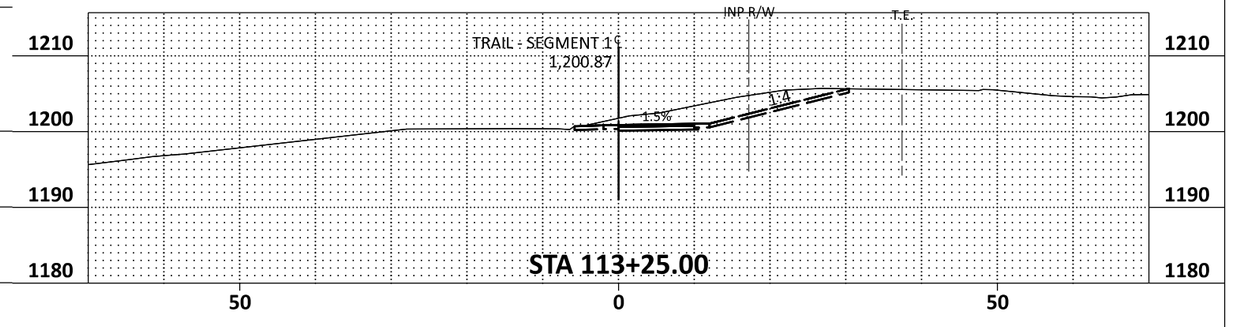
DATE: 4/20/2026 TIME: 9:52:04 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-001

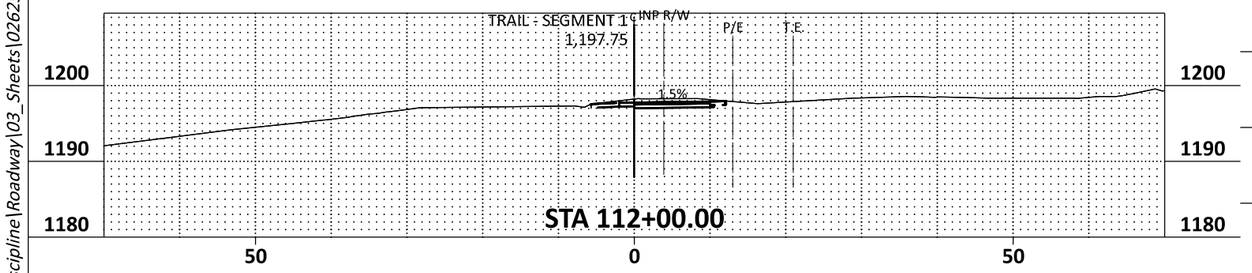
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X-6 of X27 Sheets

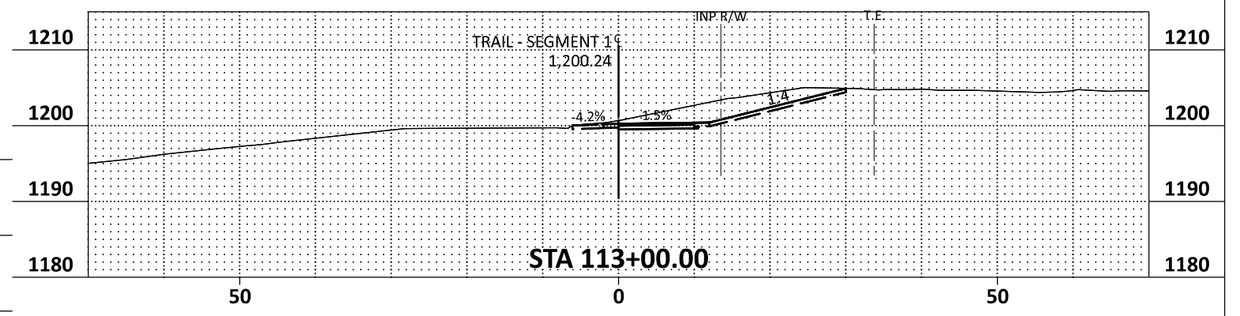


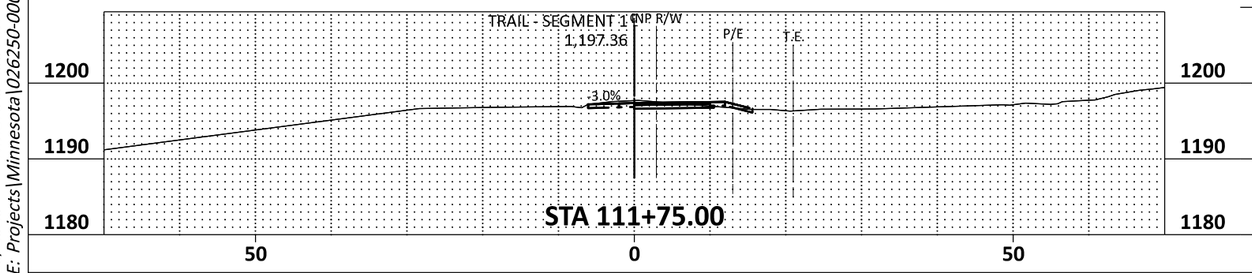


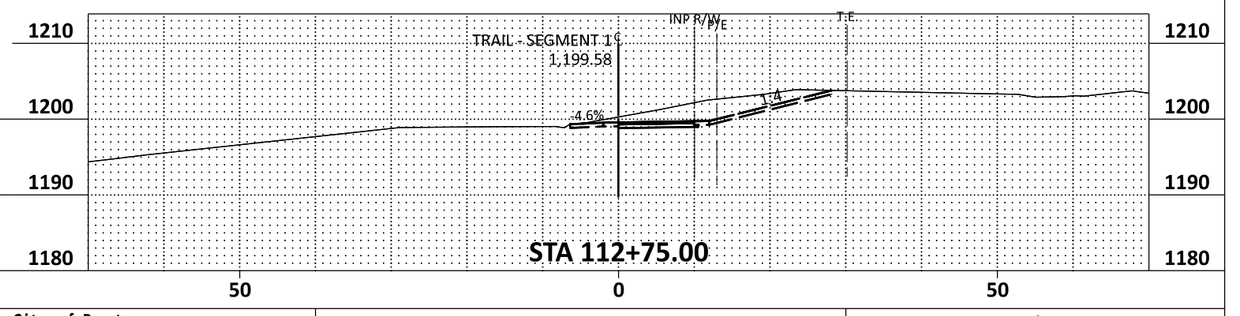






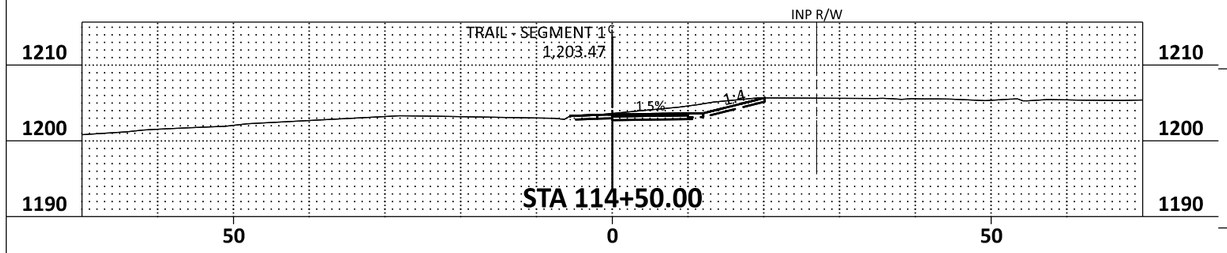


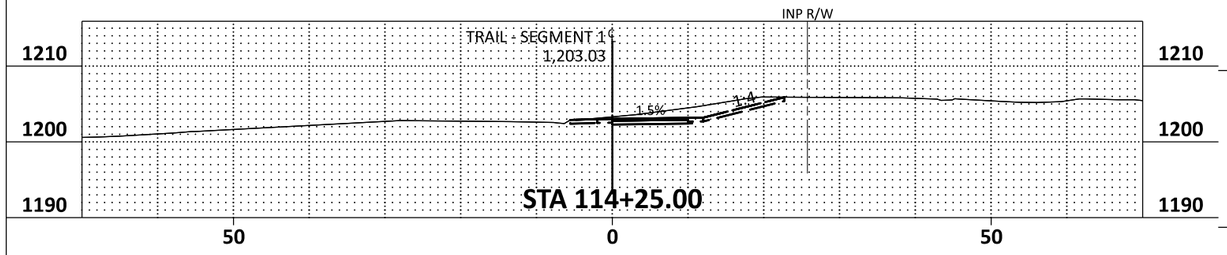


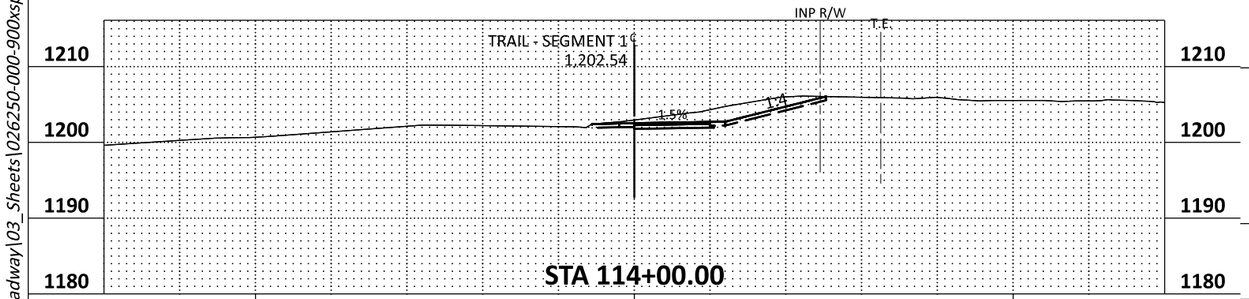


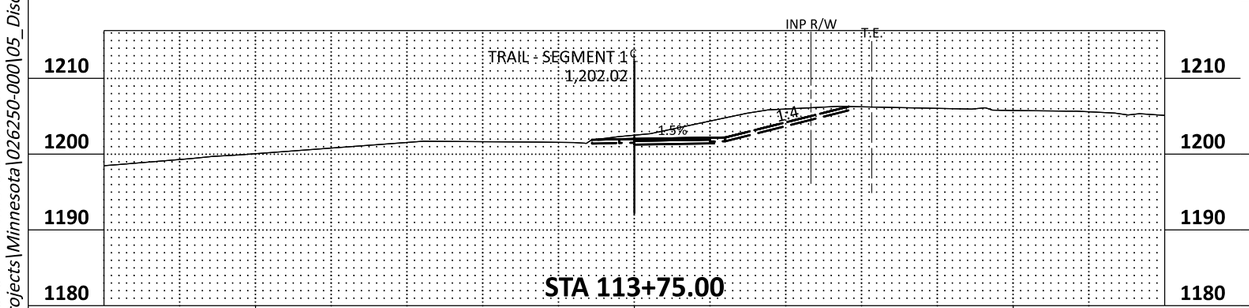
DATE: 4/20/2026 TIME: 9:52:06 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-001

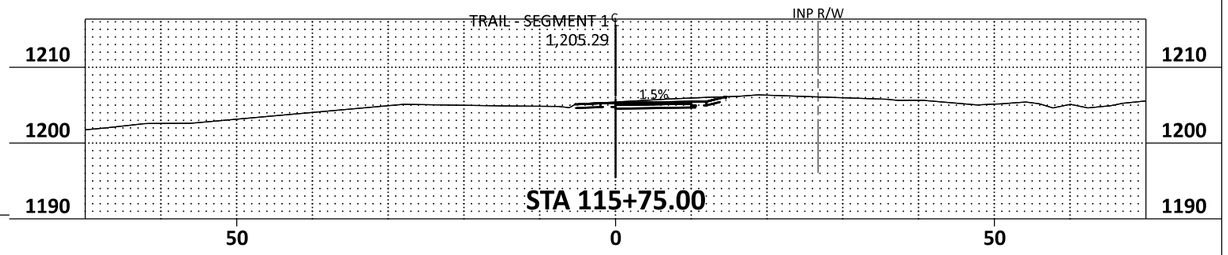
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK		wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X-7 of X27 Sheets

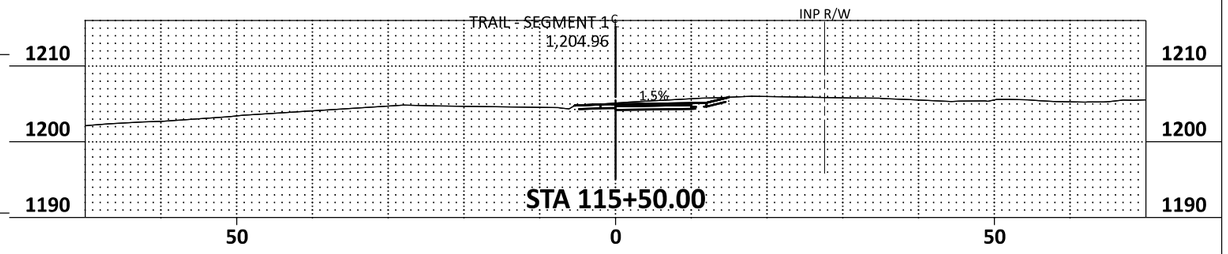


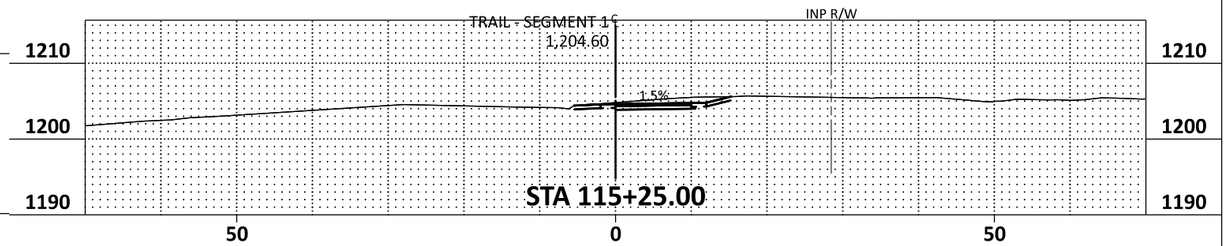


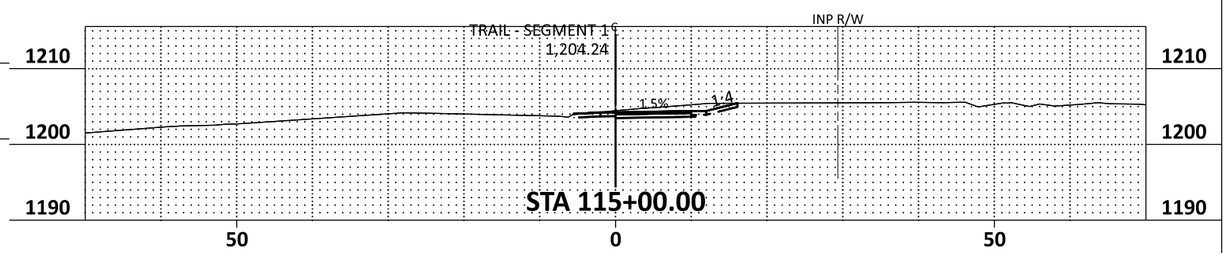


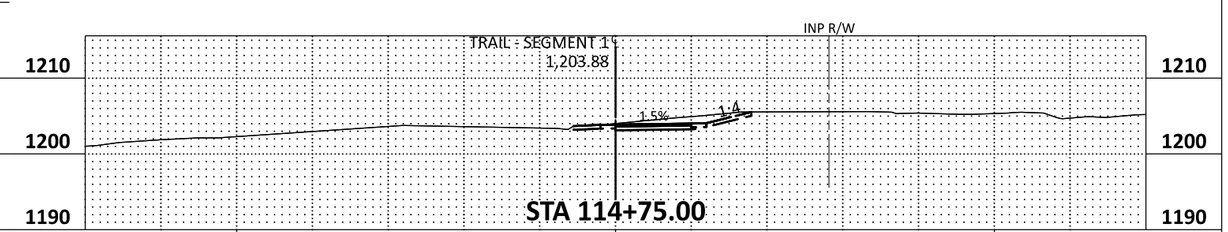






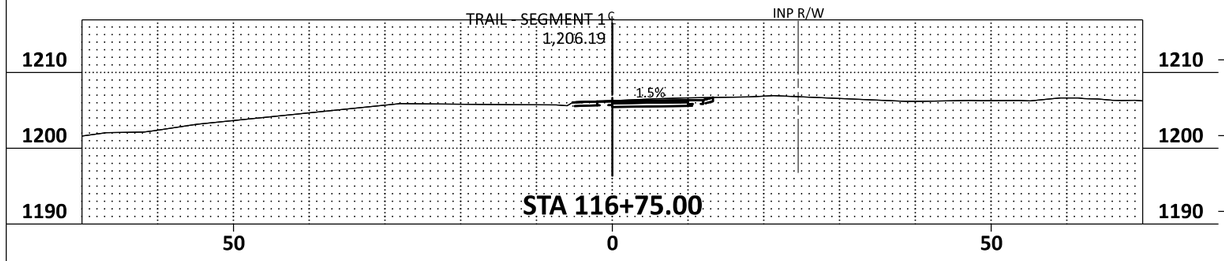


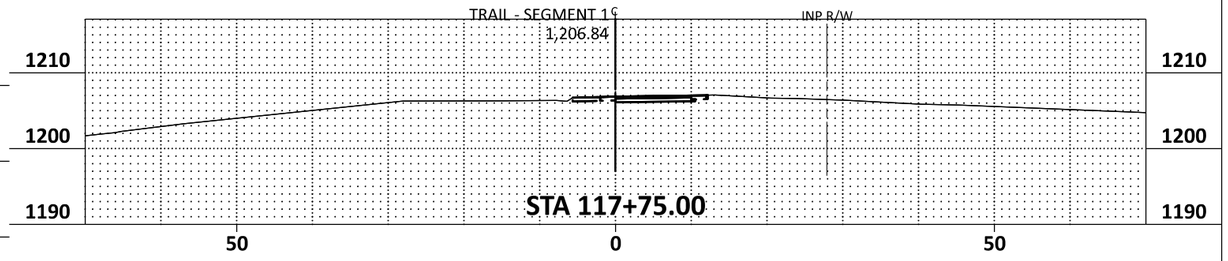


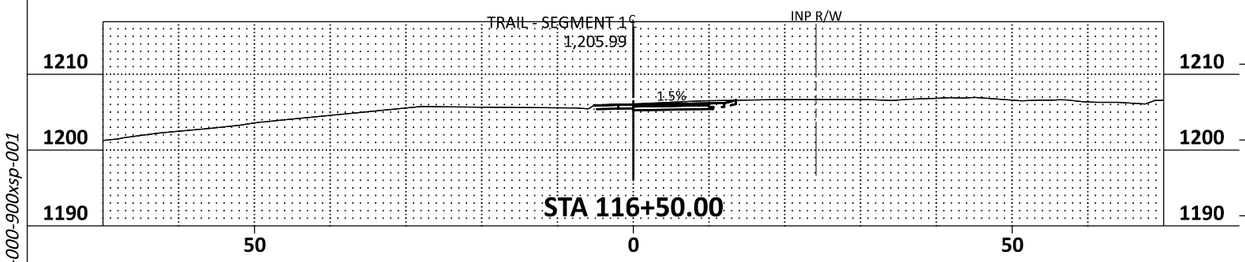


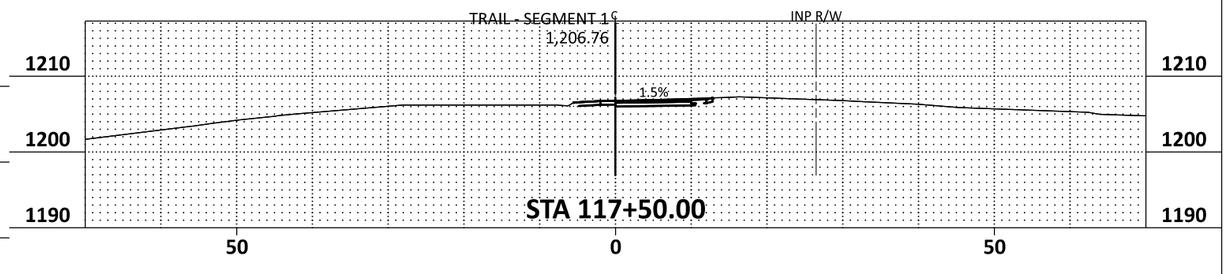
DATE: 4/20/2026 TIME: 9:52:07 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-001

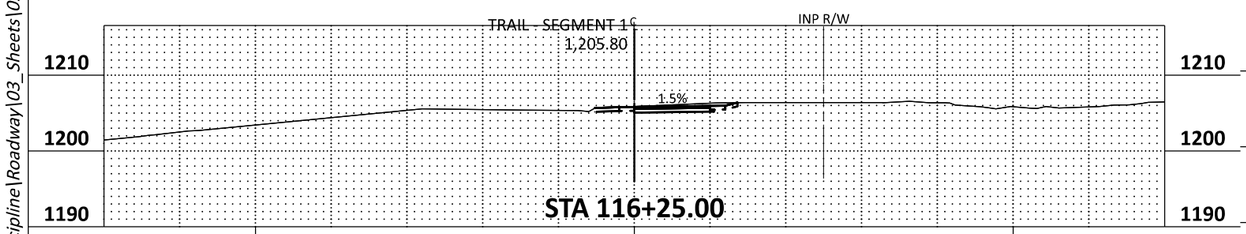
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X-8 of X27 Sheets

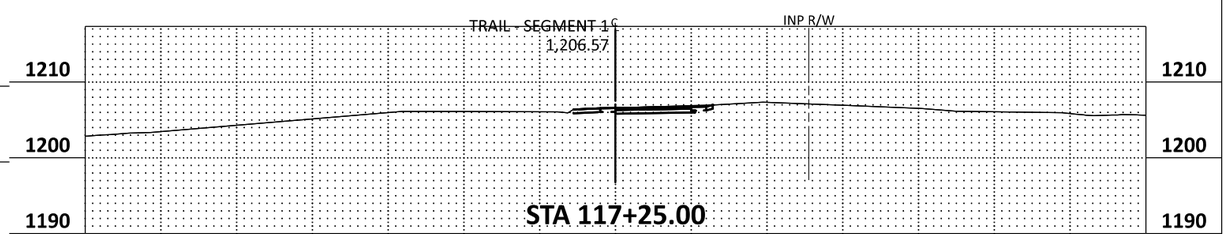


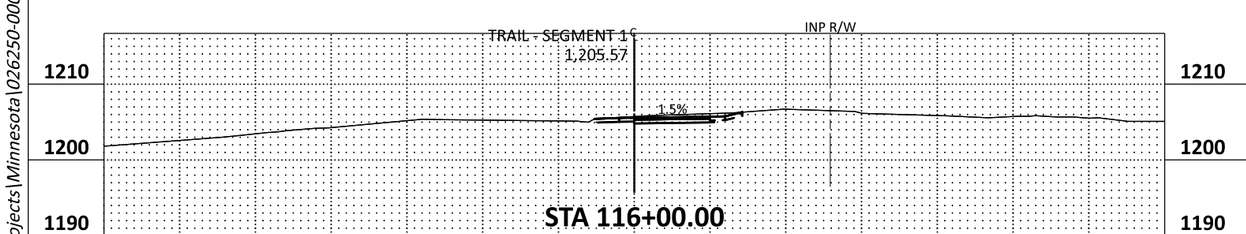


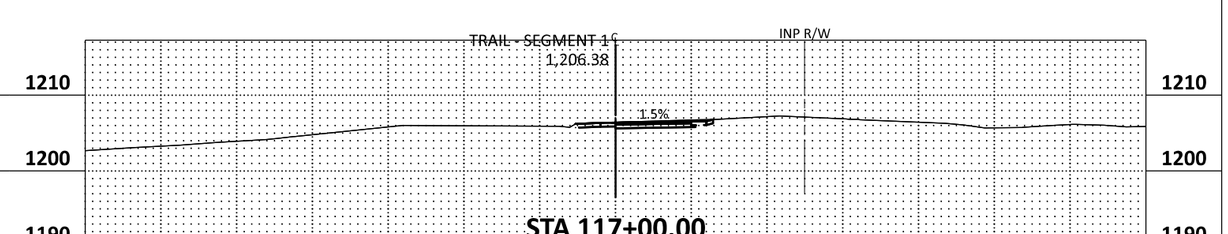










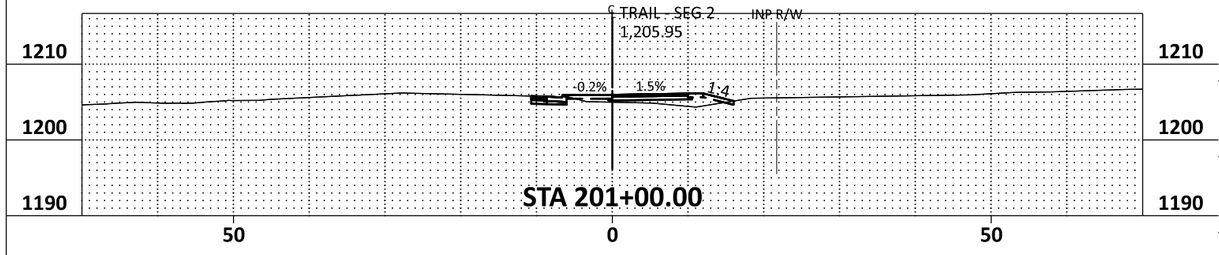


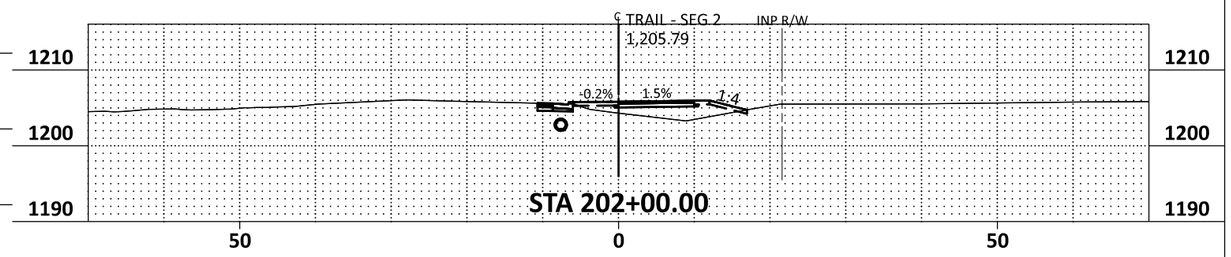
DATE: 4/20/2026 TIME: 9:52:09 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-001

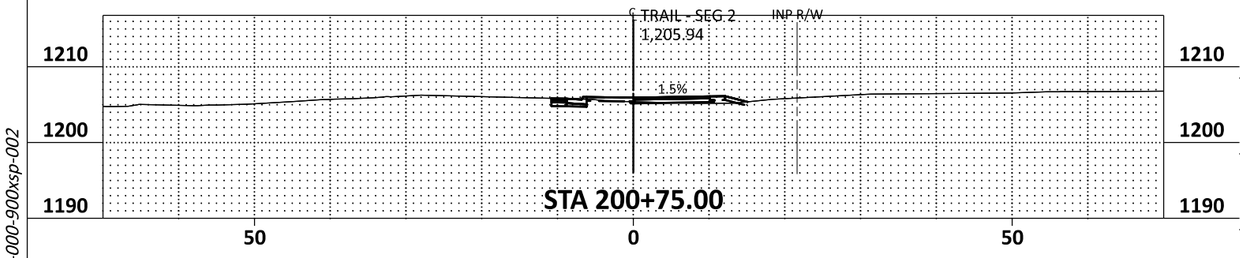
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK		City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X-9 of X27 Sheets

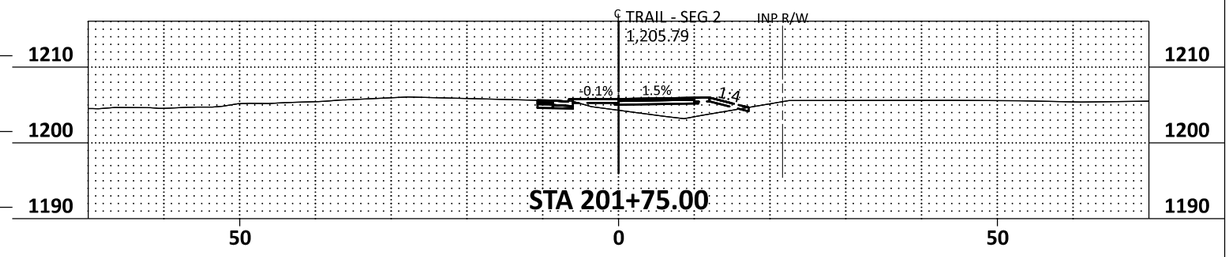
DATE: 4/20/2026 TIME: 9:52:10 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-001

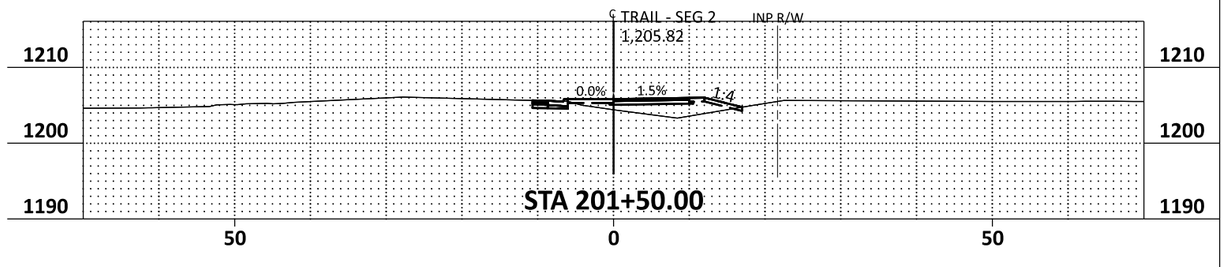
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK		wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X-10 of X27 Sheets

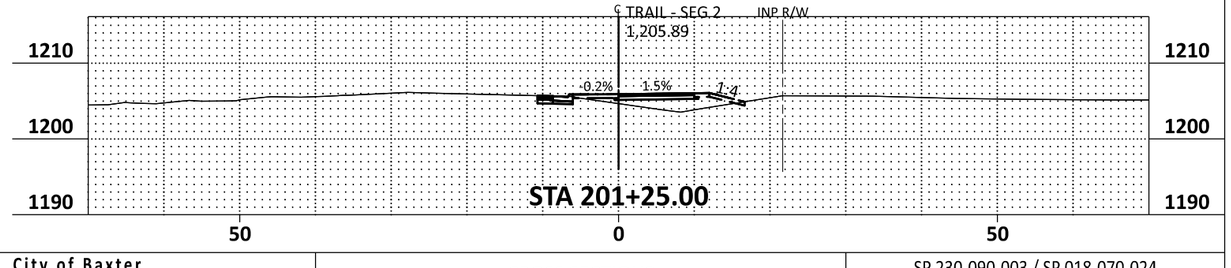






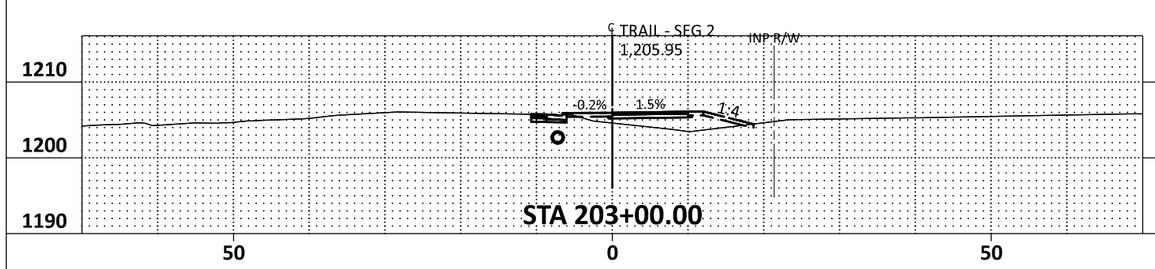


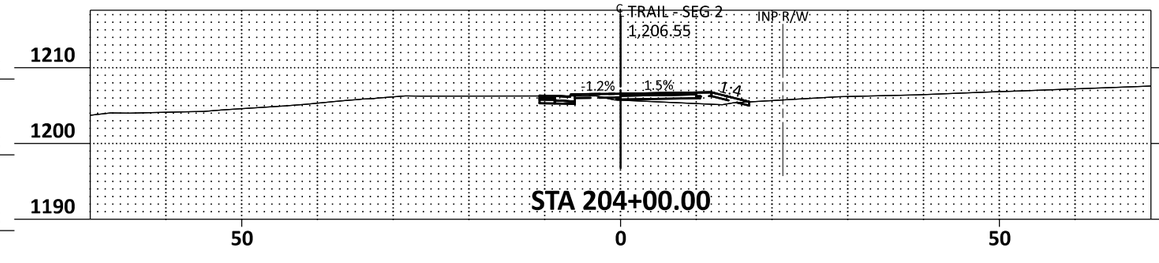


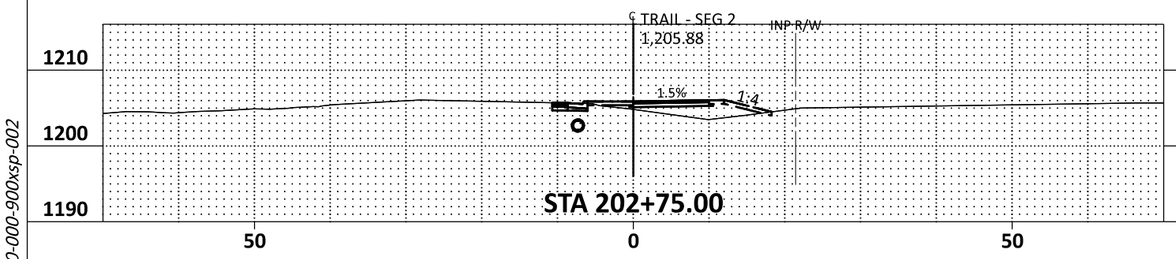


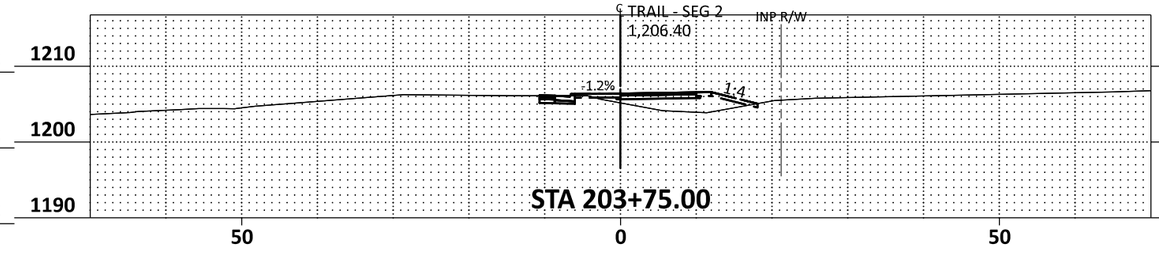
DATE: 4/20/2026 TIME: 9:52:41 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

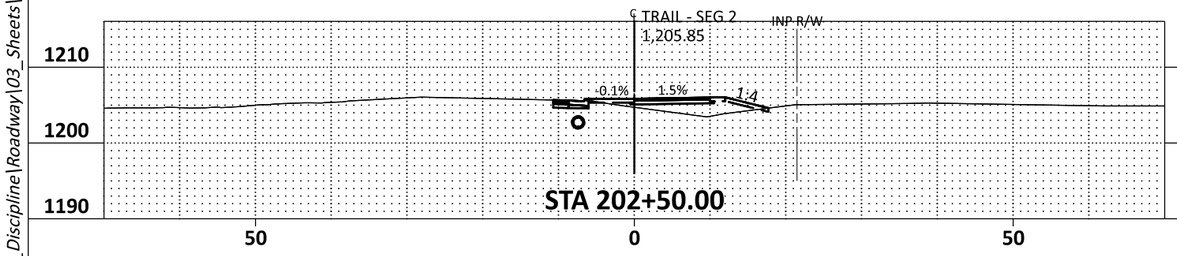
DRAWN BY: CK		City of Baxter	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024
DESIGNED BY: MKV	wsb	CSAH 48 Trail		Sheet No. X11 of X27 Sheets
CHECKED BY: JK		Baxter, Minnesota		

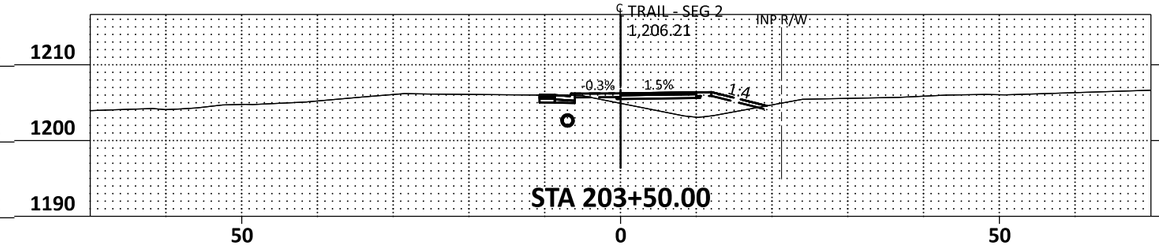


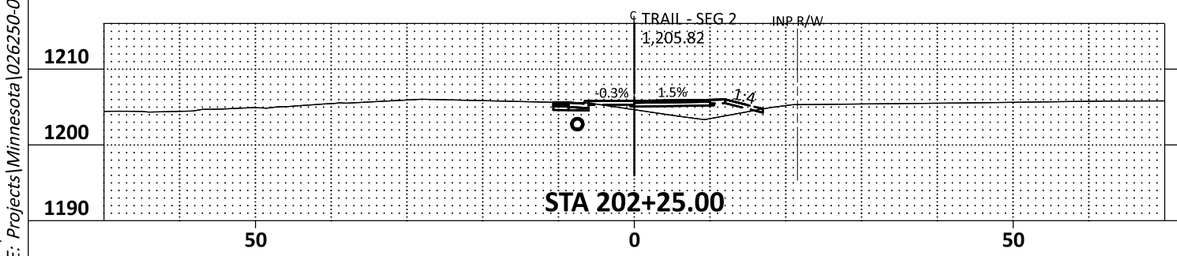


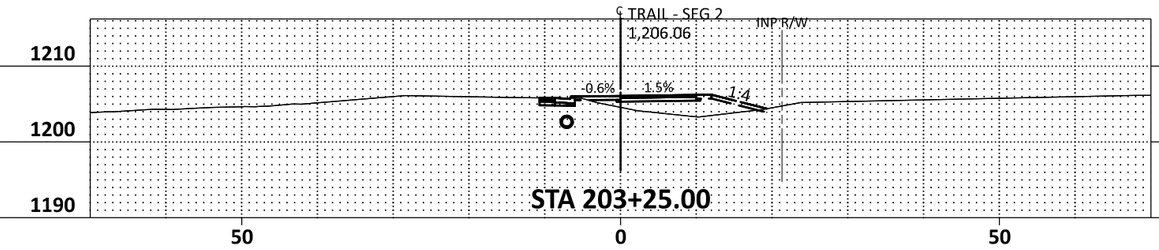






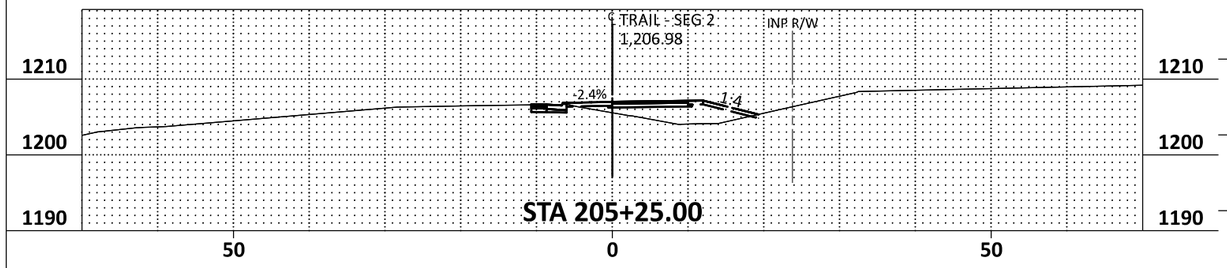


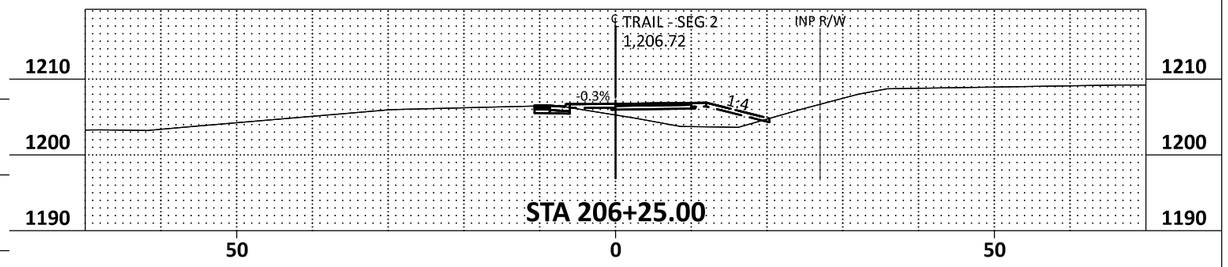


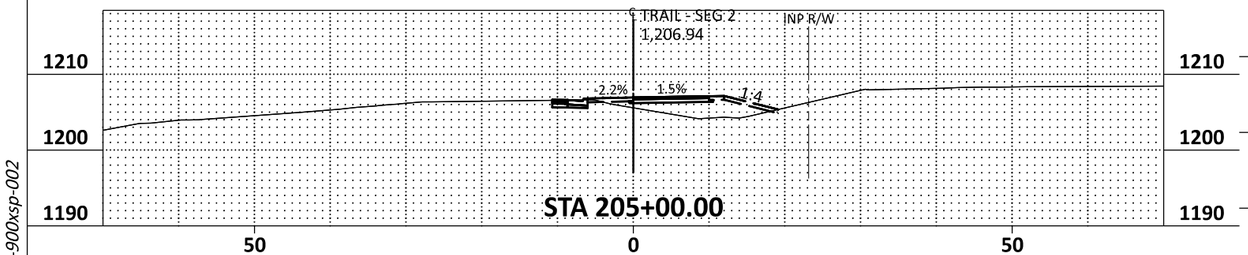


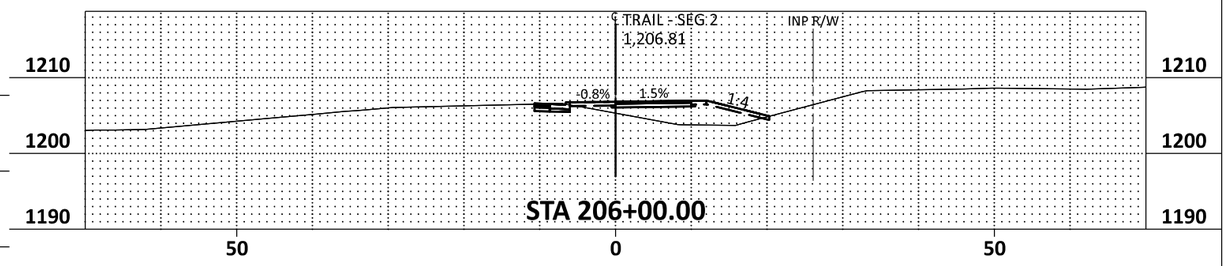
DATE: 4/20/2026 TIME: 9:52:44 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

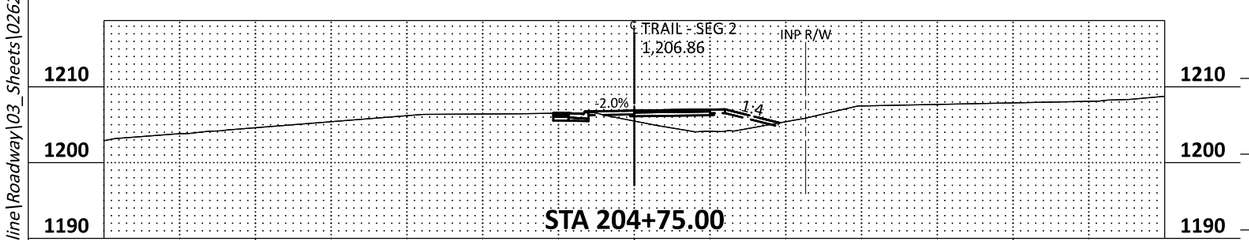
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X12 of X27 Sheets

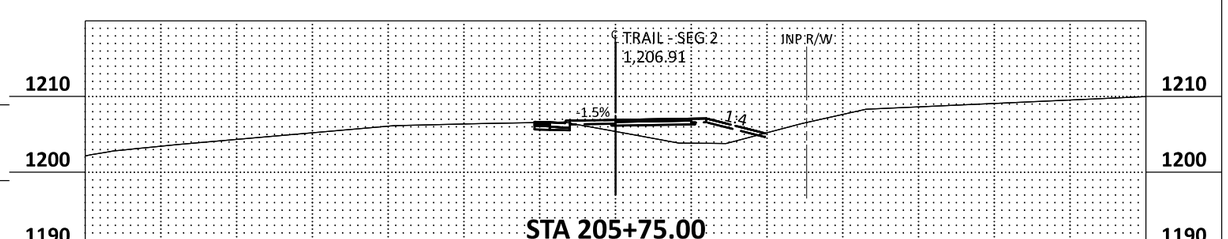


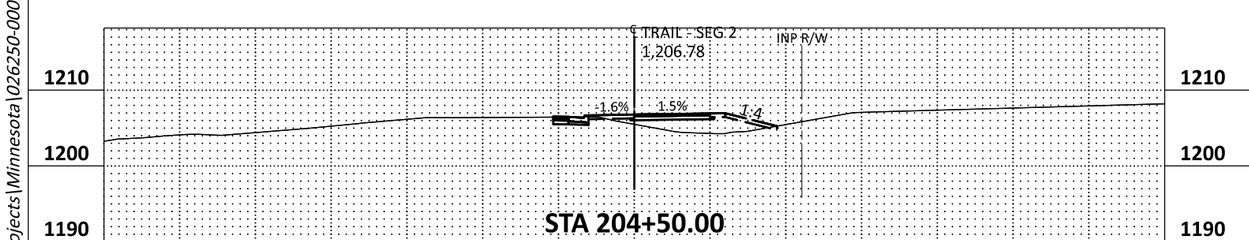


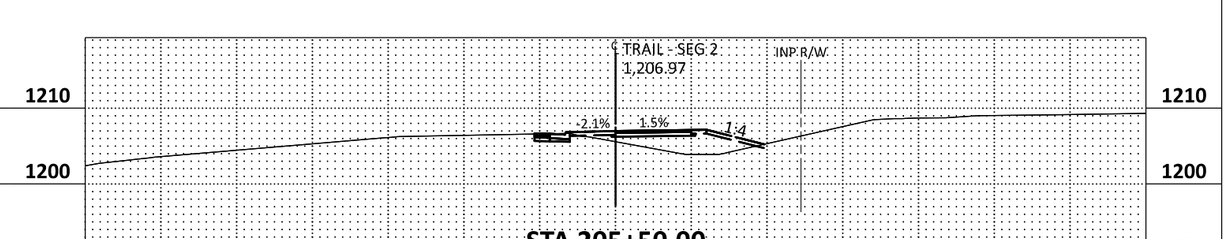






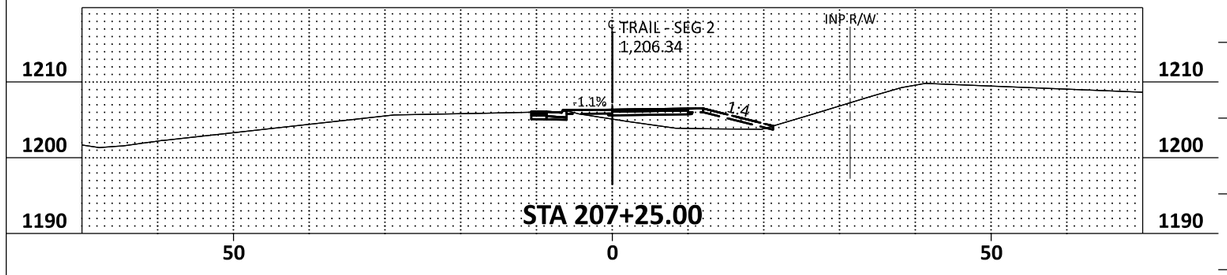


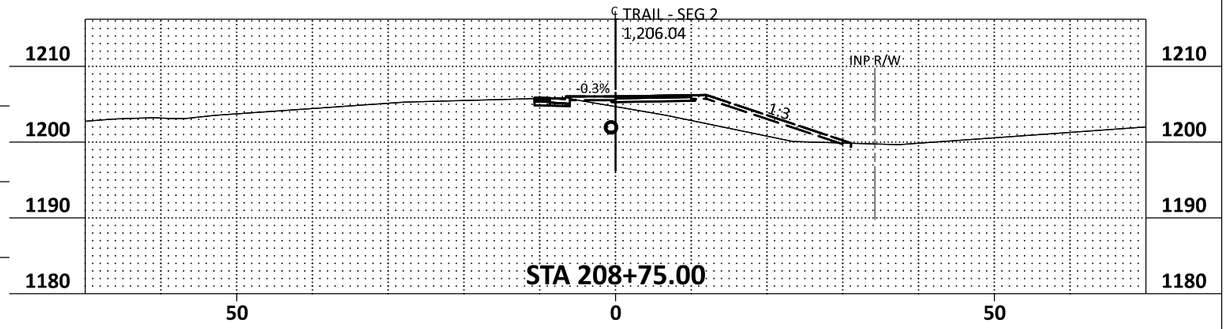


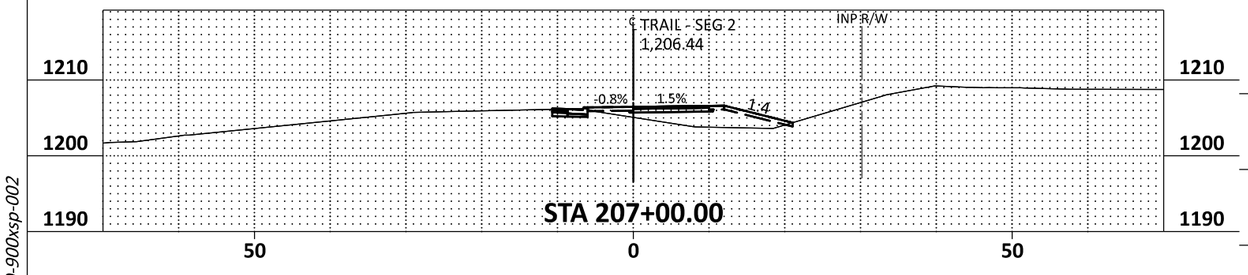


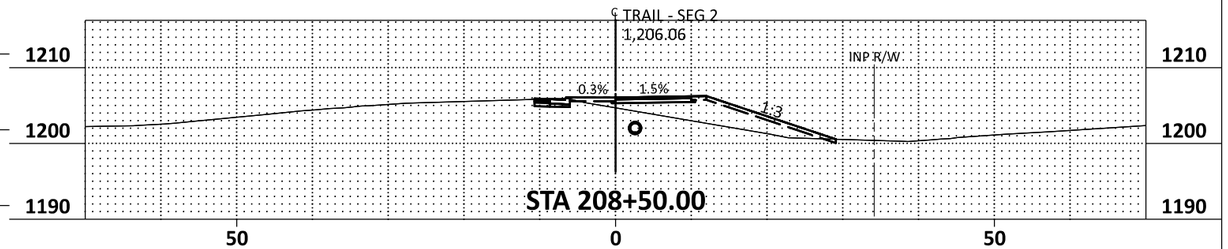
DATE: 4/20/2026 TIME: 9:52:47 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

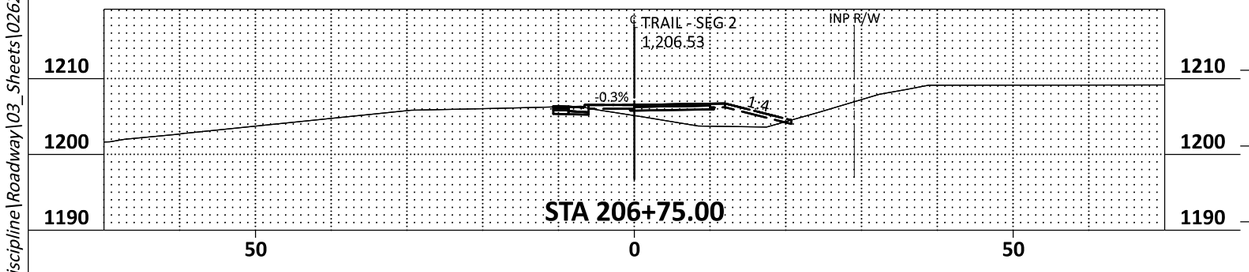
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X13 of X27 Sheets

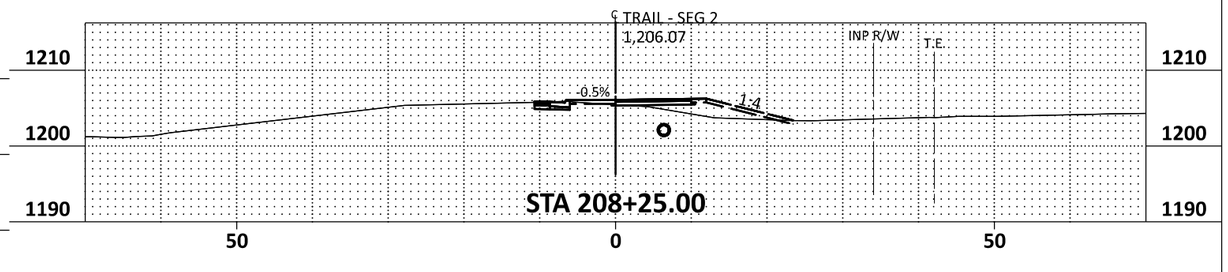


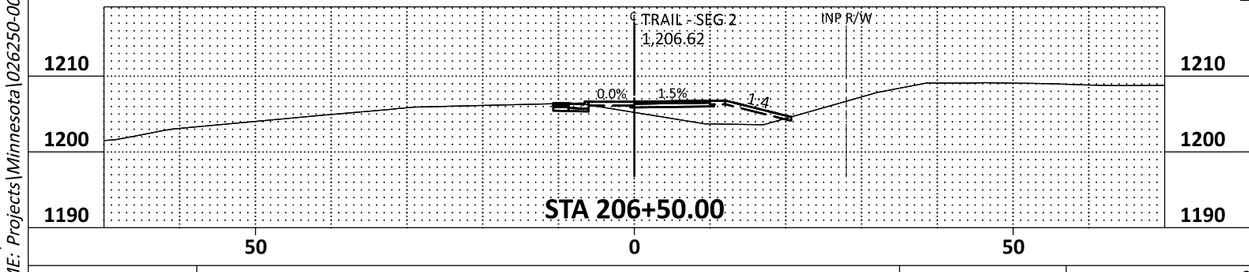


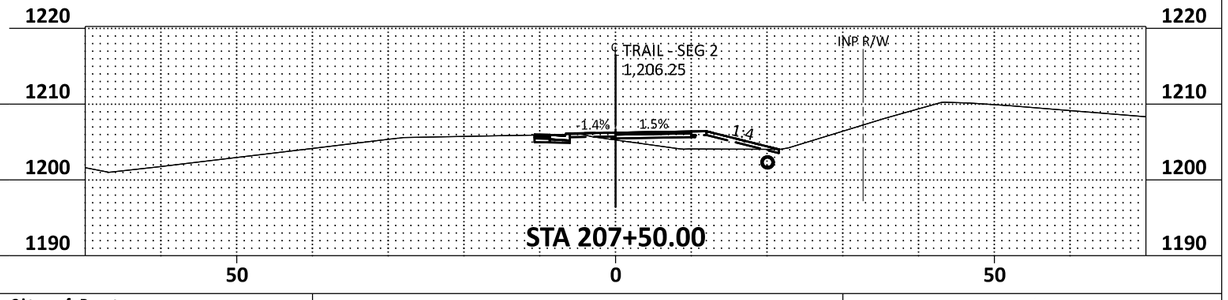






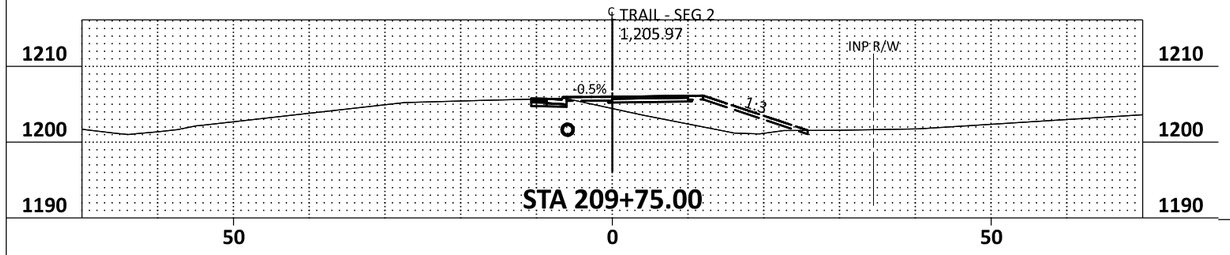


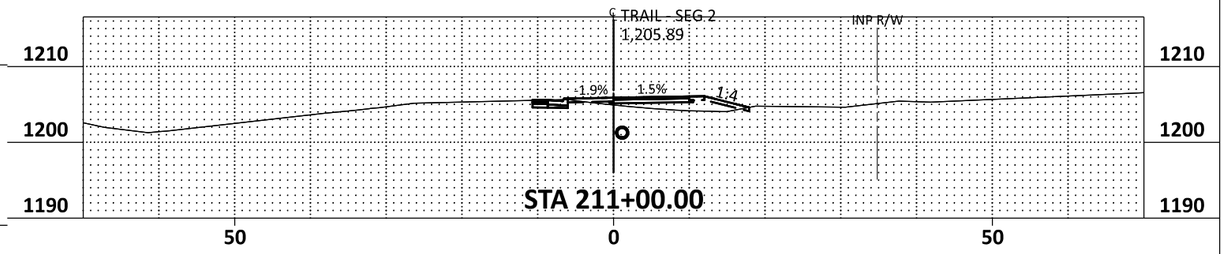


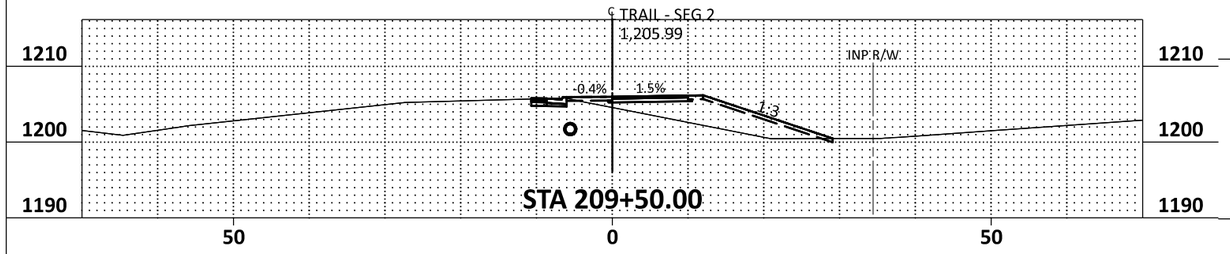


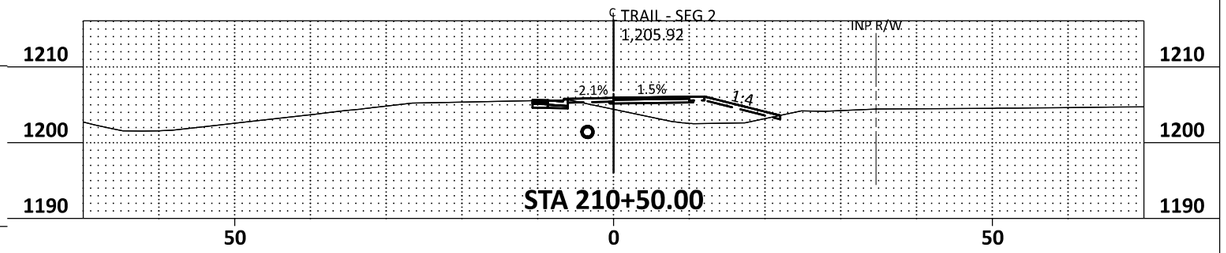
DATE: 4/20/2026 TIME: 9:52:50 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

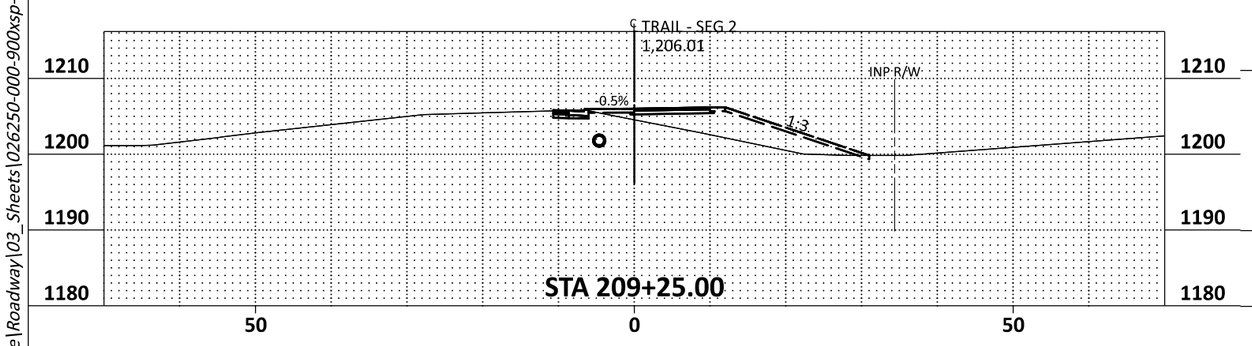
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK		wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X14 of X27 Sheets

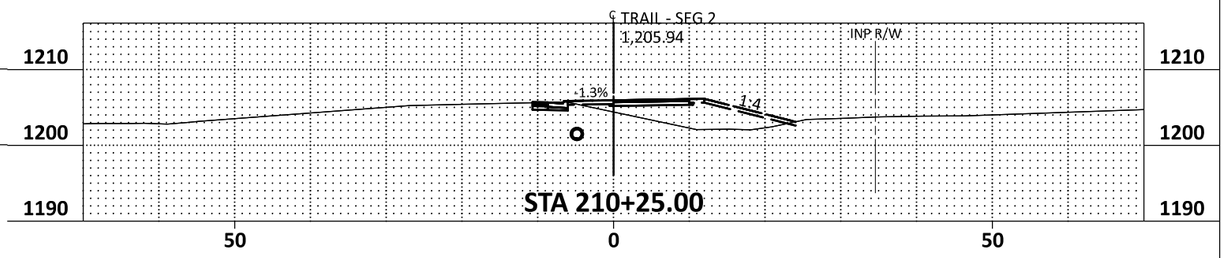


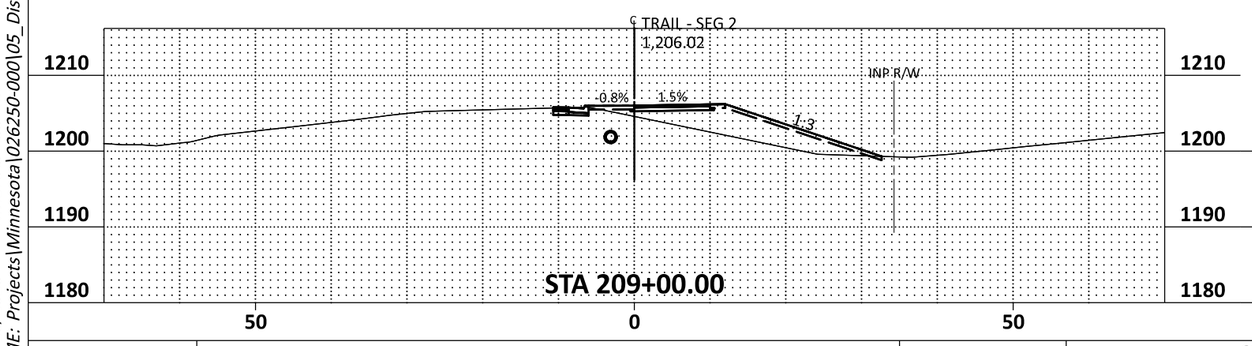


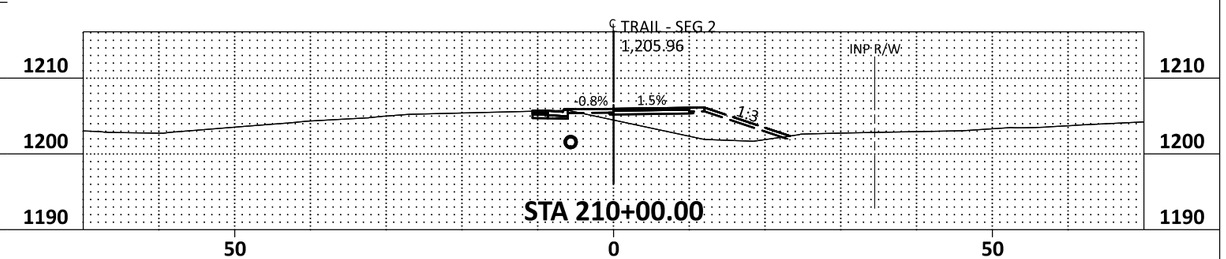






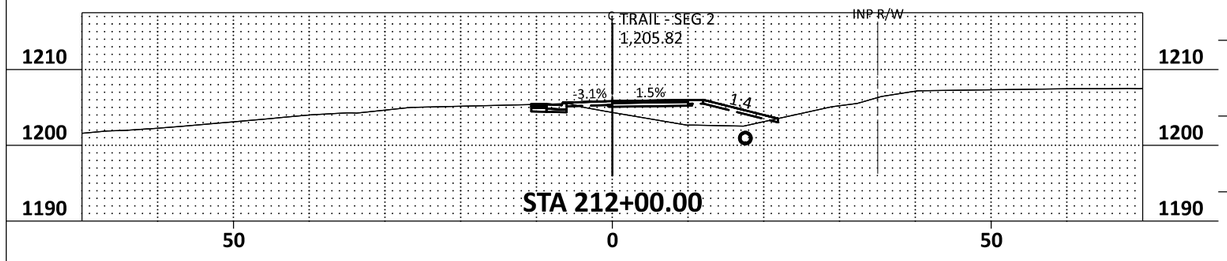


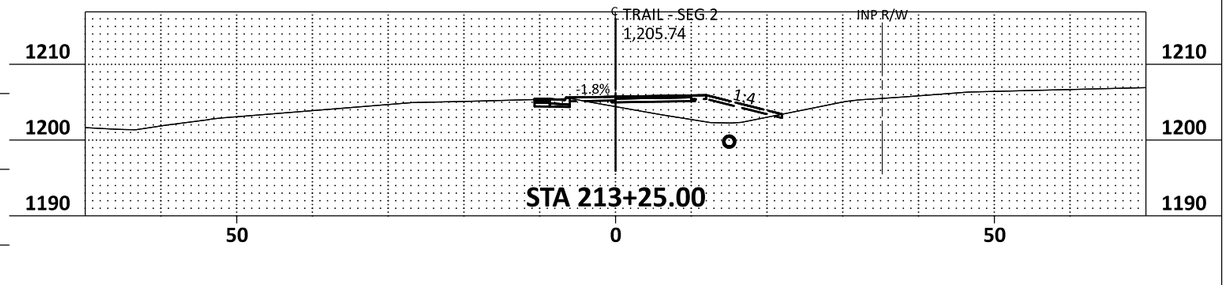


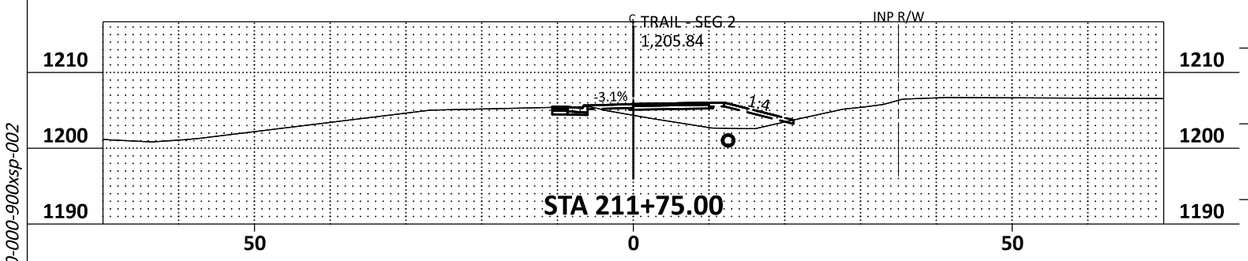


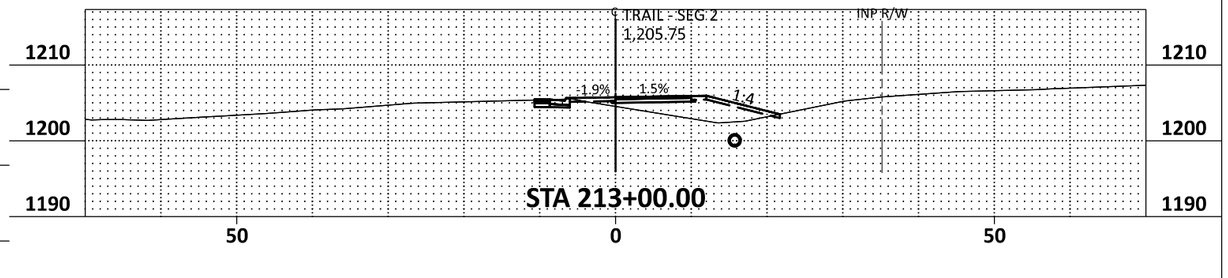
DATE: 4/20/2026 TIME: 9:52:53 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

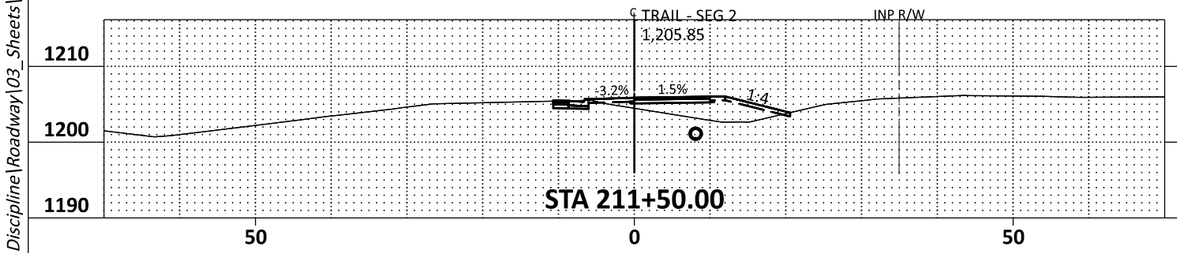
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK		City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X15 of X27 Sheets

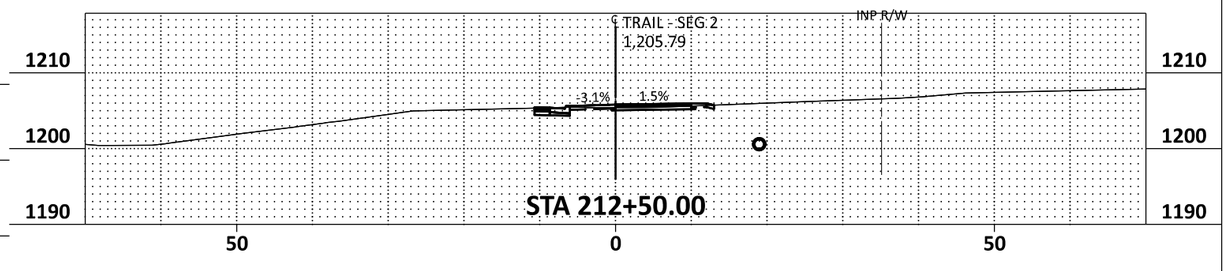


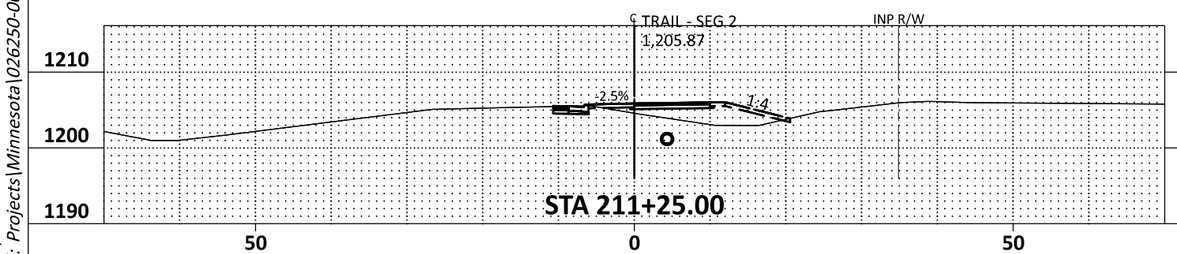


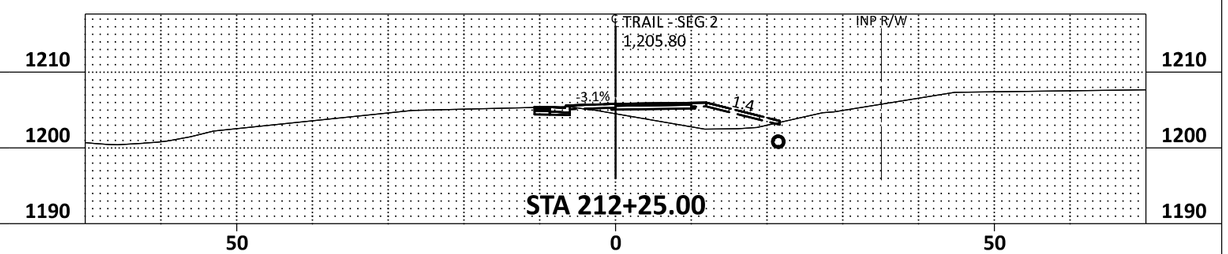






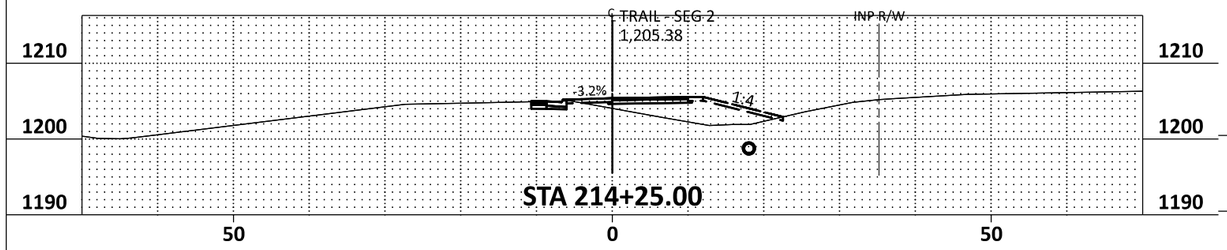


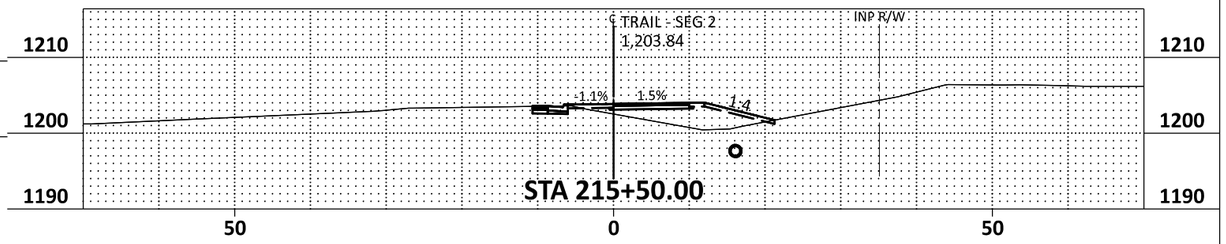


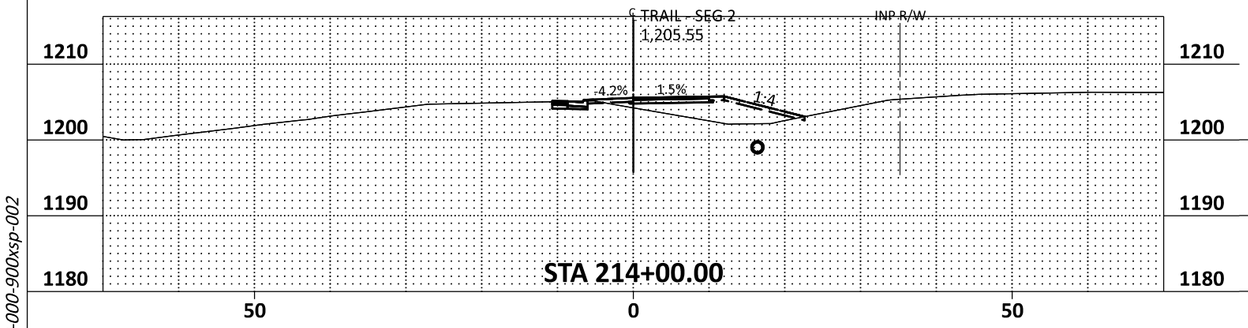


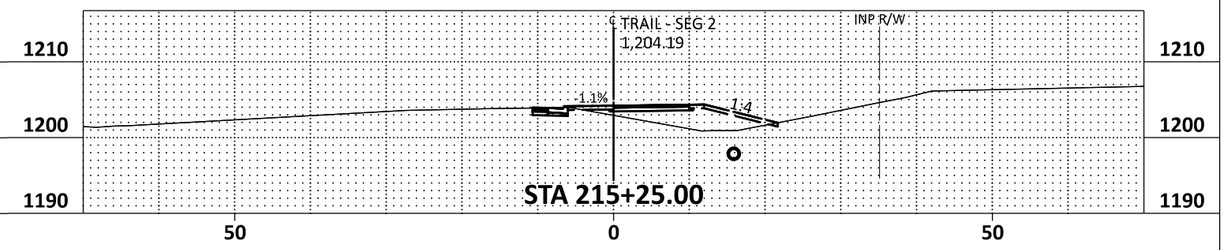
DATE: 4/20/2026 TIME: 9:52:56 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

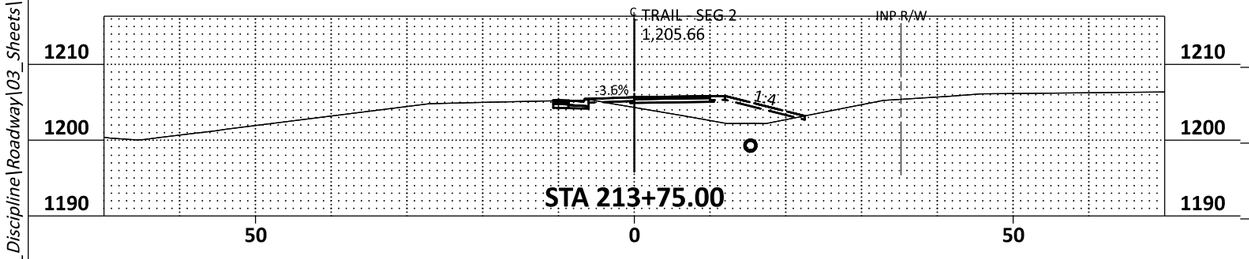
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X16 of X27 Sheets

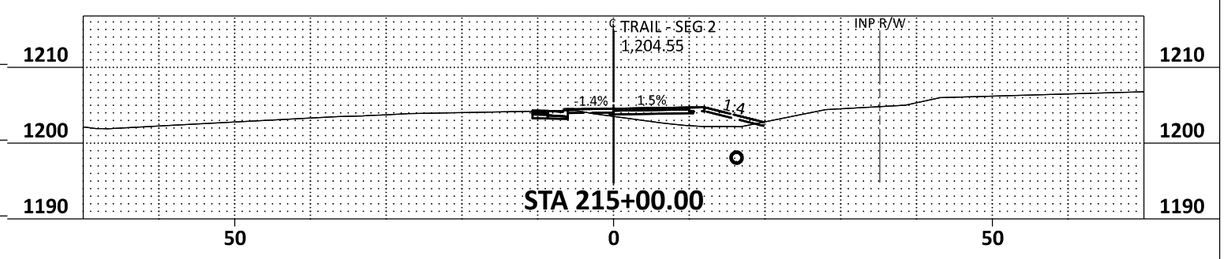


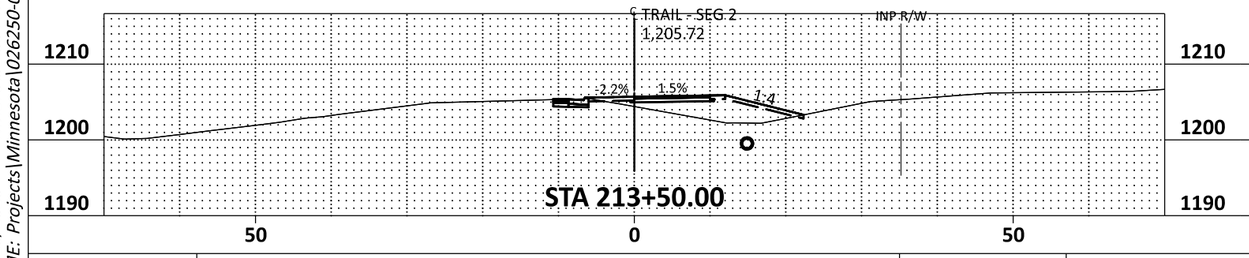


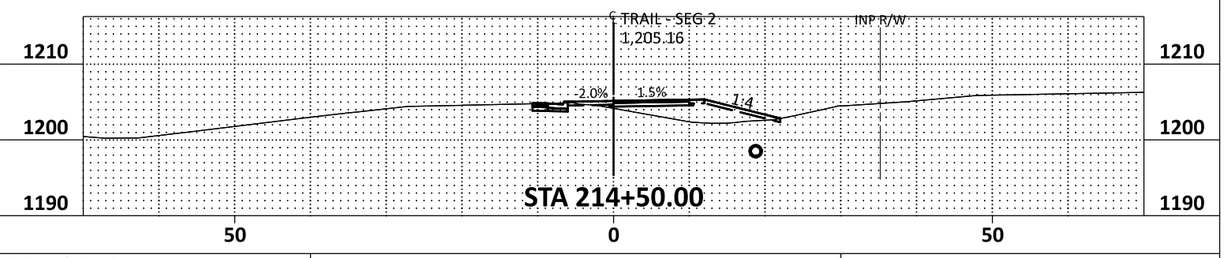






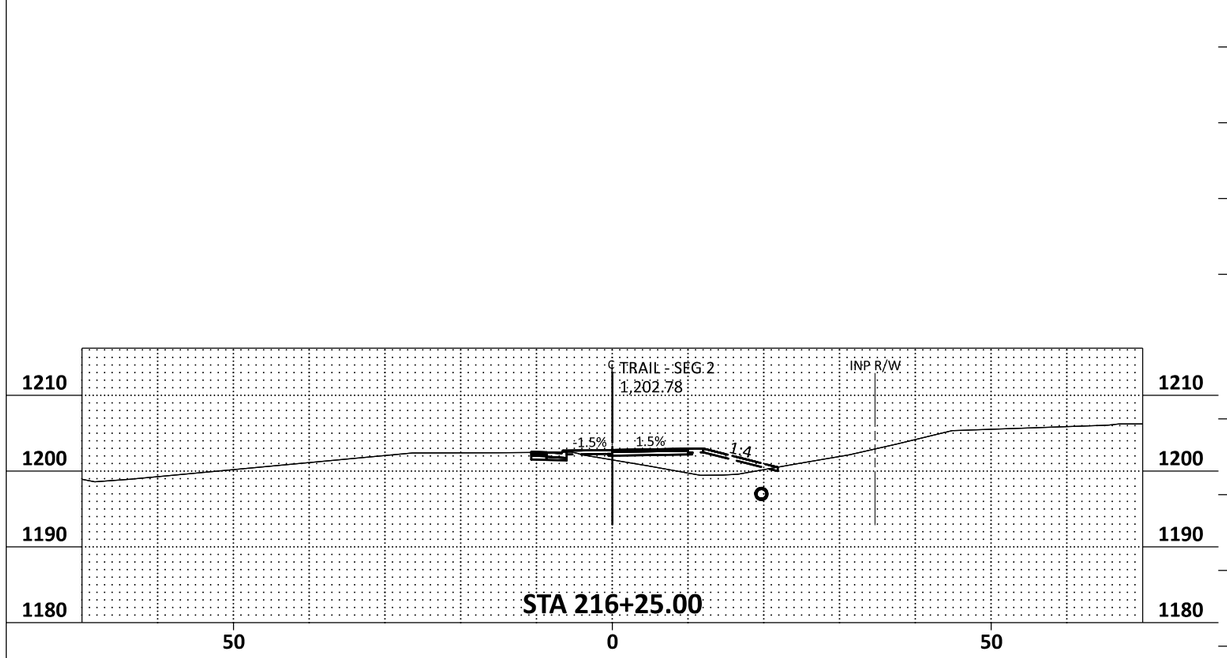


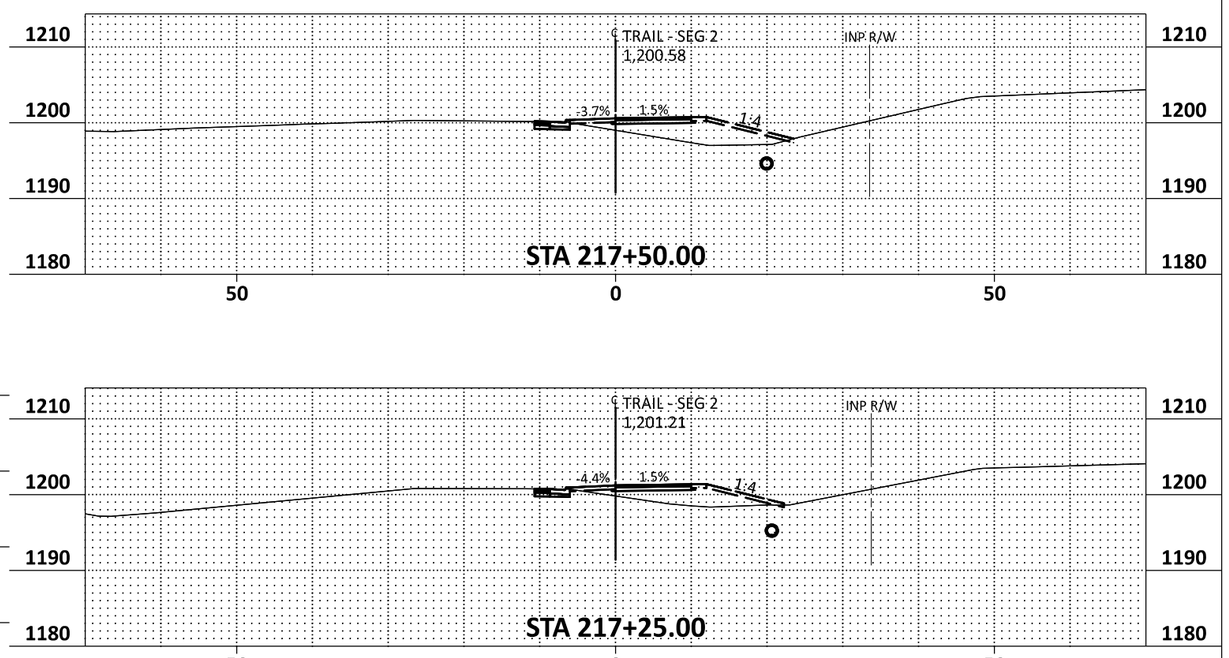


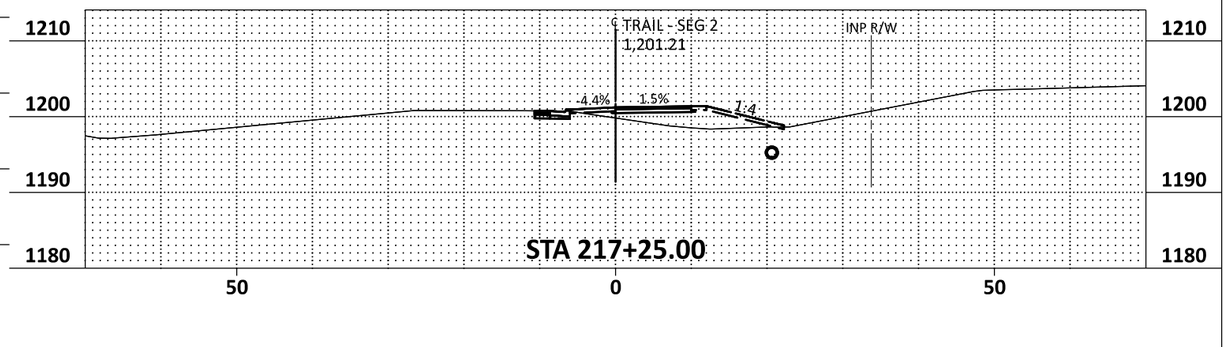


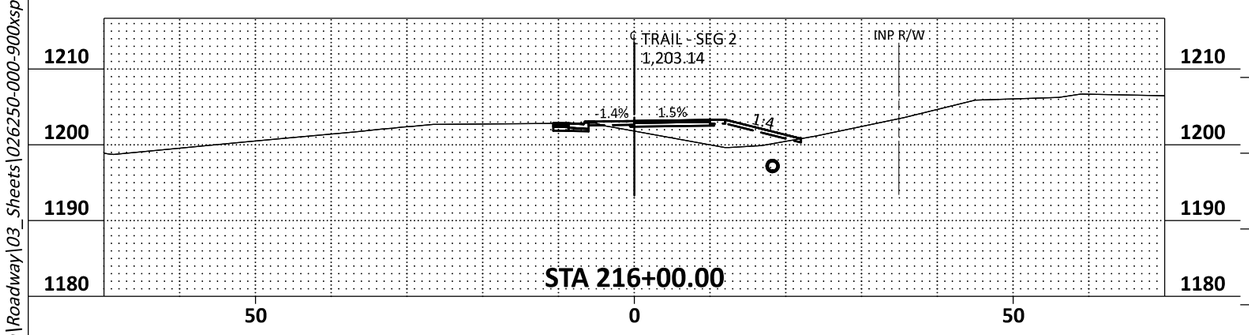
DATE: 4/20/2026 TIME: 9:52:59 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

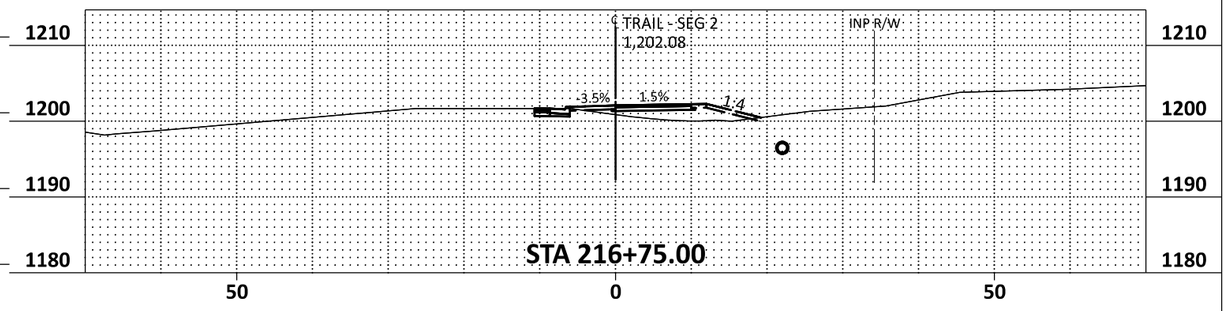
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X17 of X27 Sheets

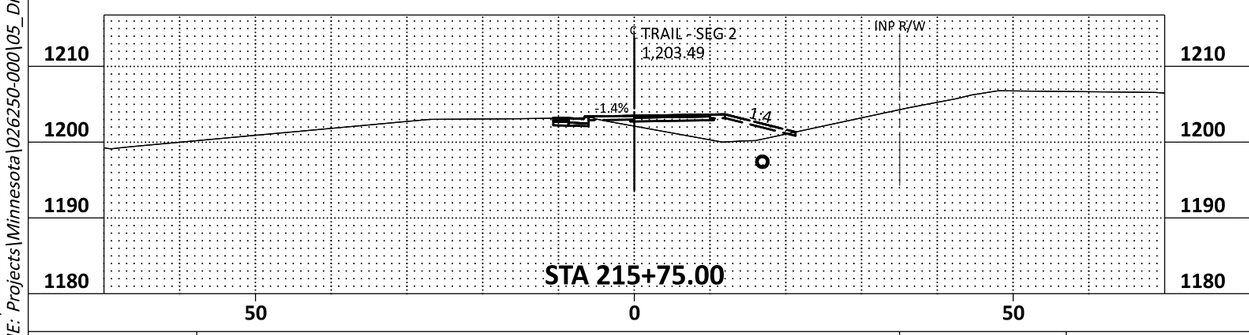


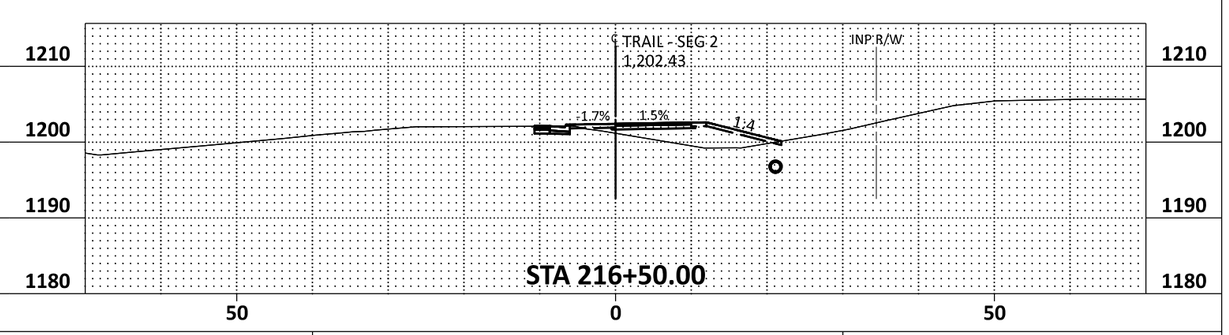






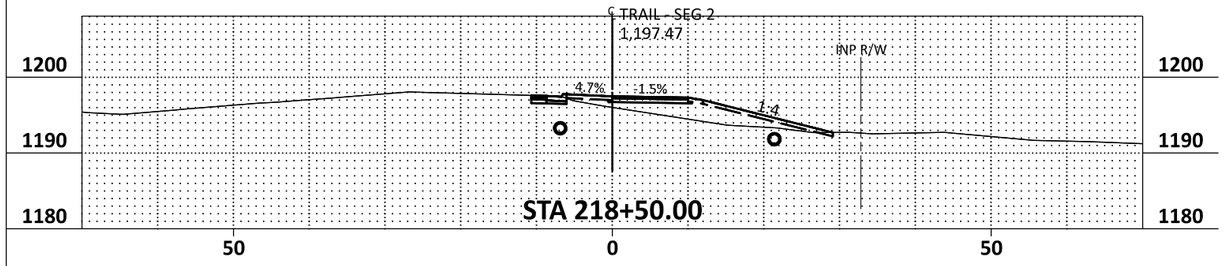


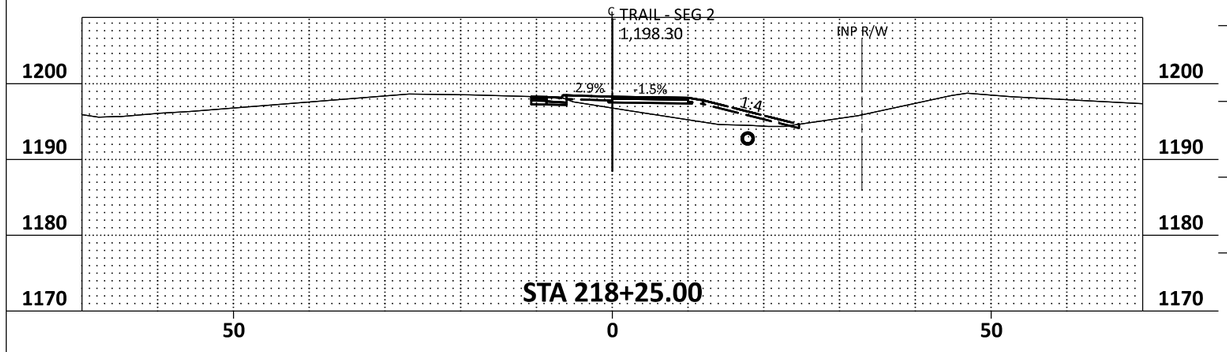


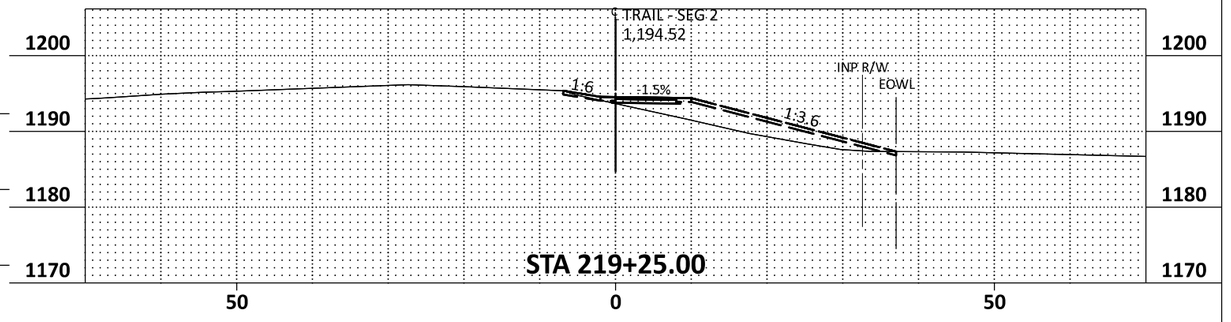


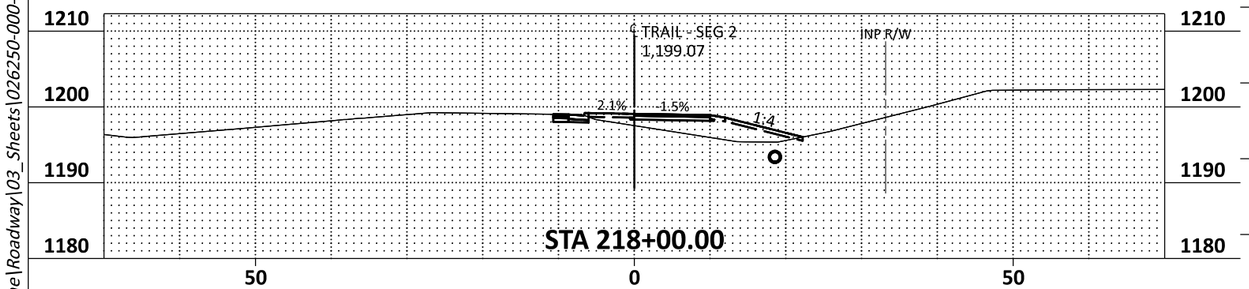
DATE: 4/20/2026 TIME: 9:53:02 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

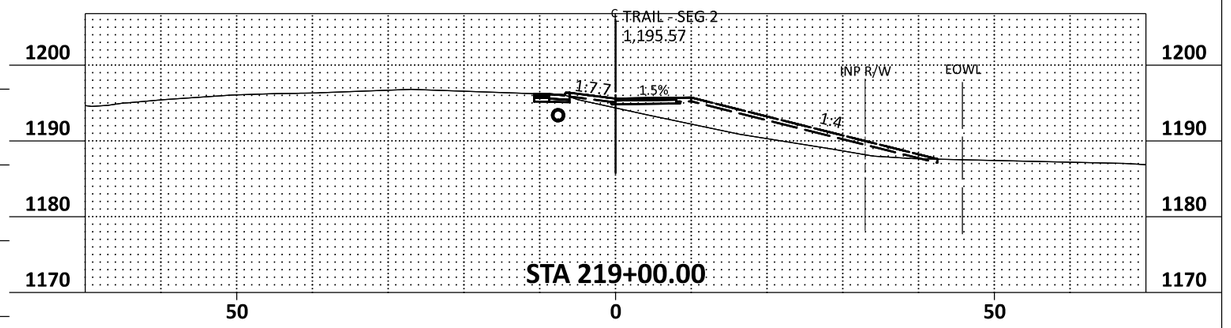
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X18 of X27 Sheets

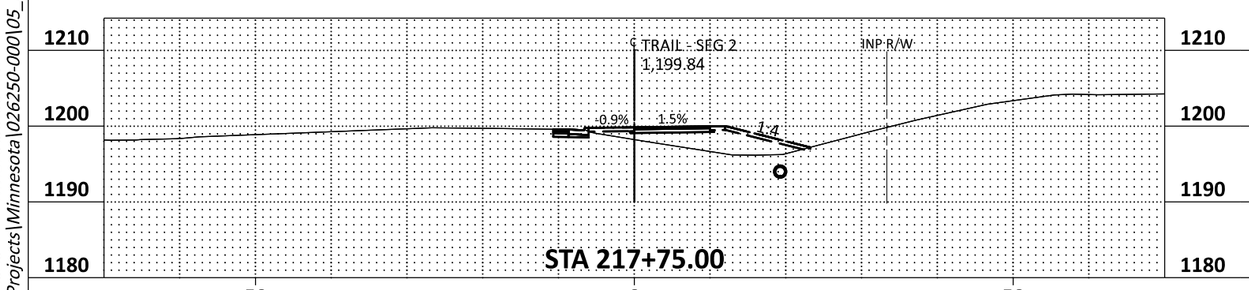


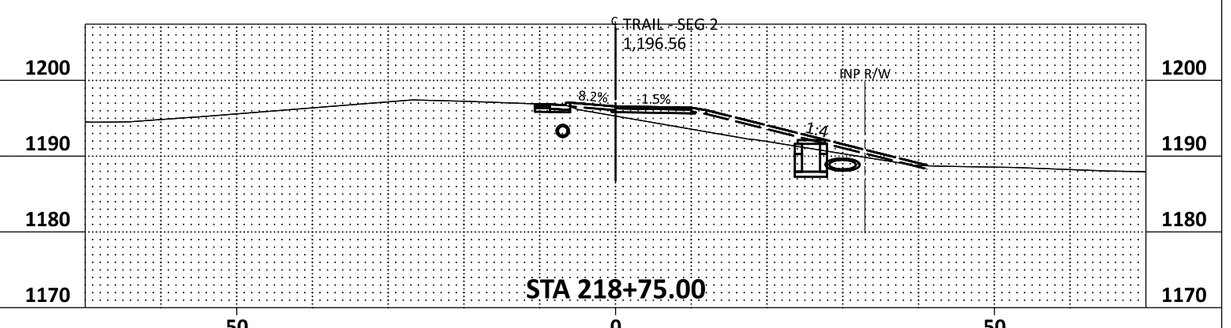






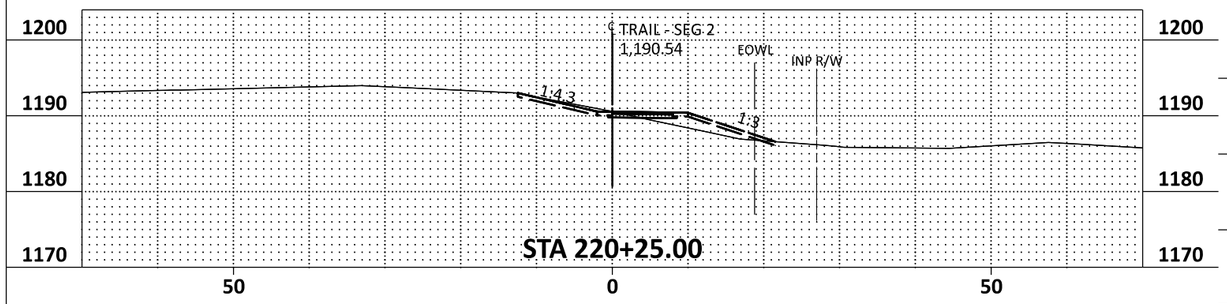


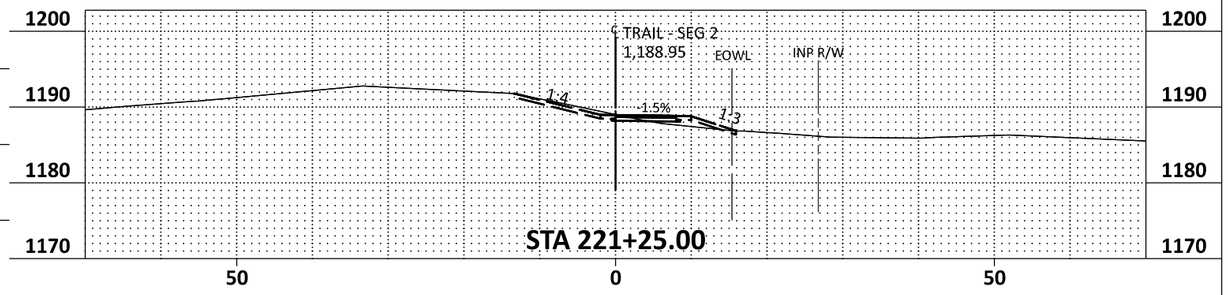


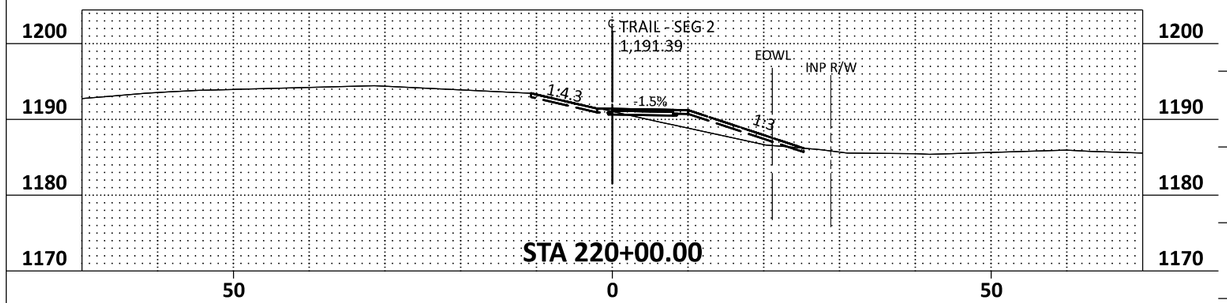


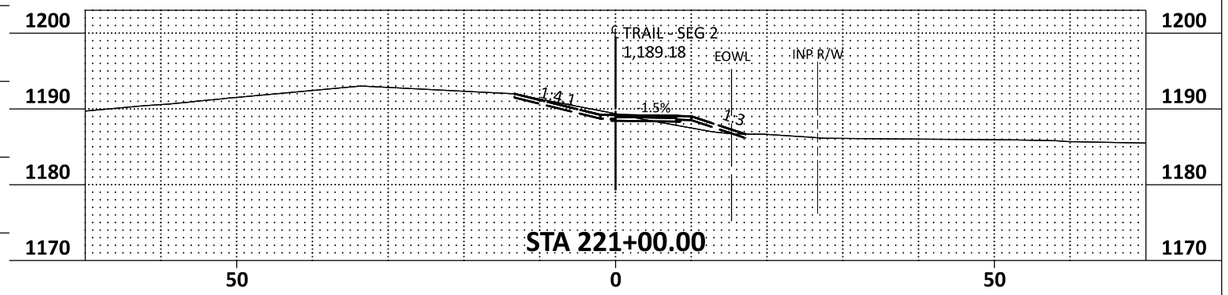
DATE: 4/20/2026 TIME: 9:53:06 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

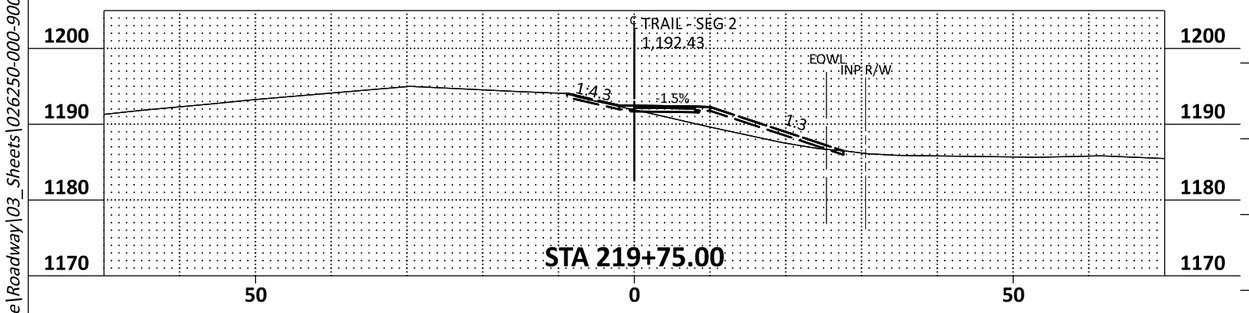
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X19 of X27 Sheets

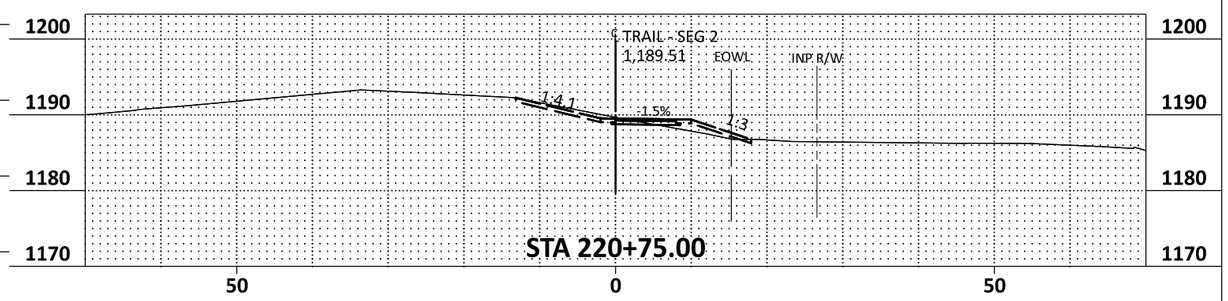


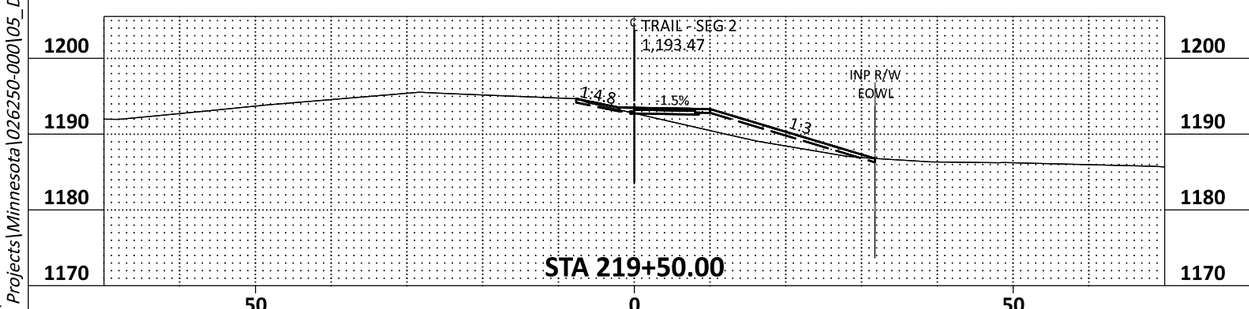


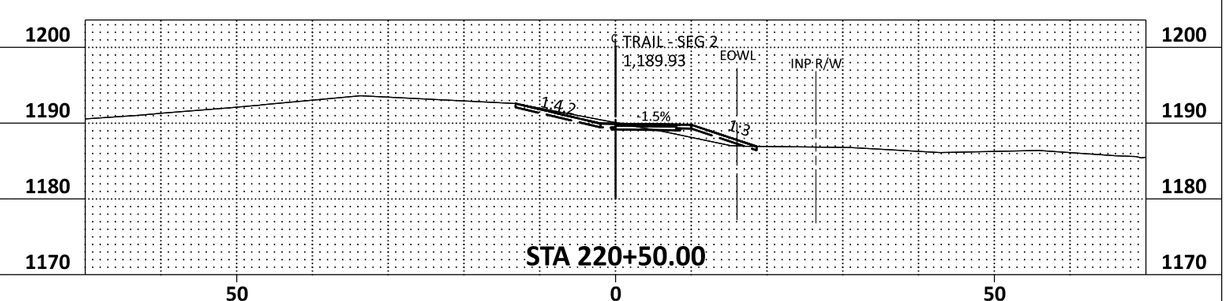






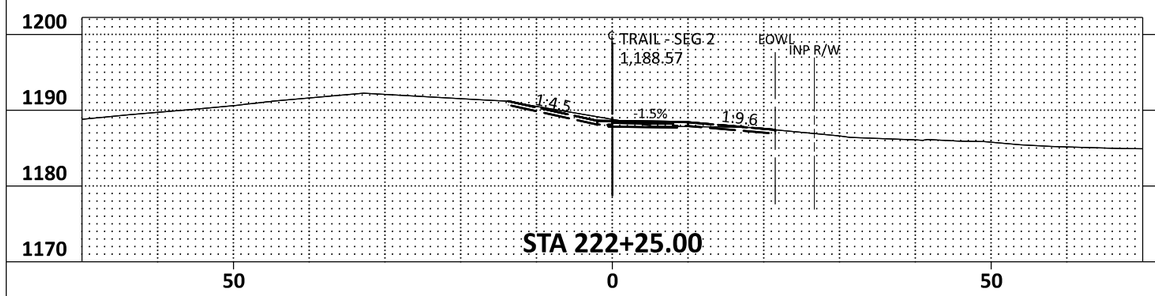


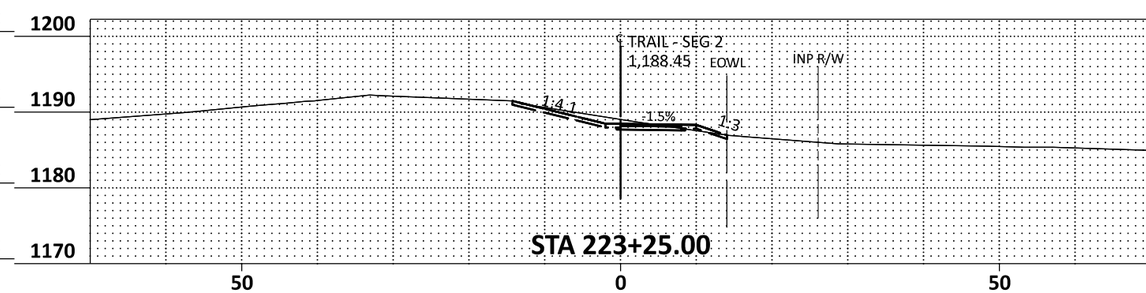


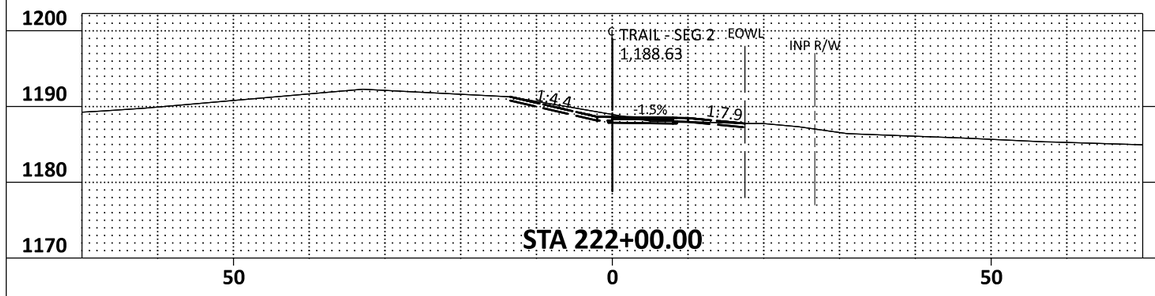


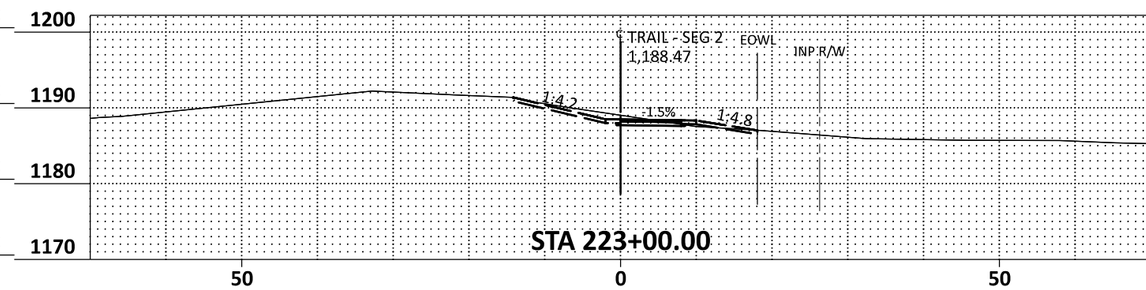
DATE: 4/20/2026 TIME: 9:53:08 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

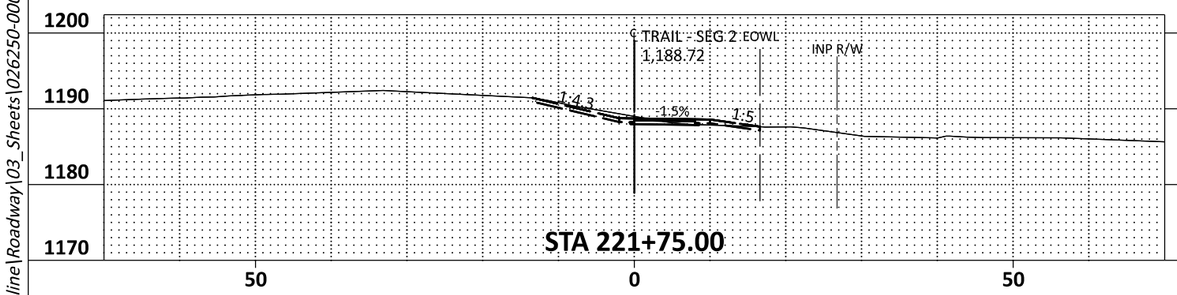
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X20 of X27 Sheets

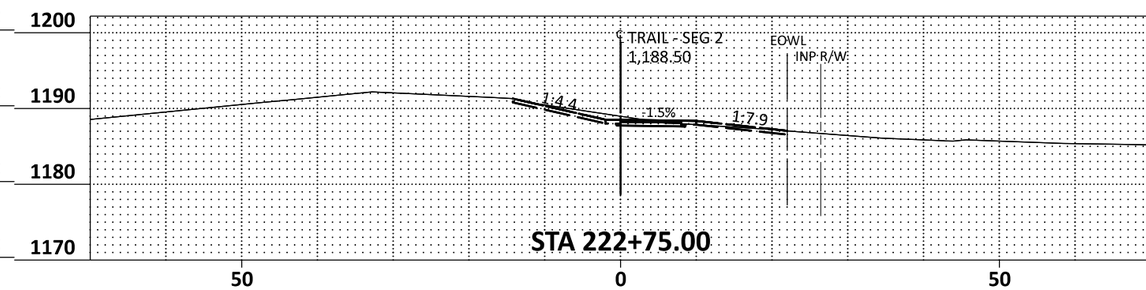


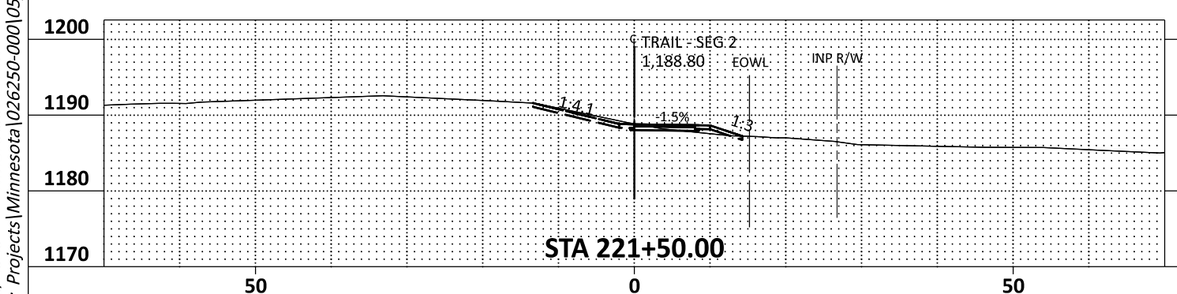


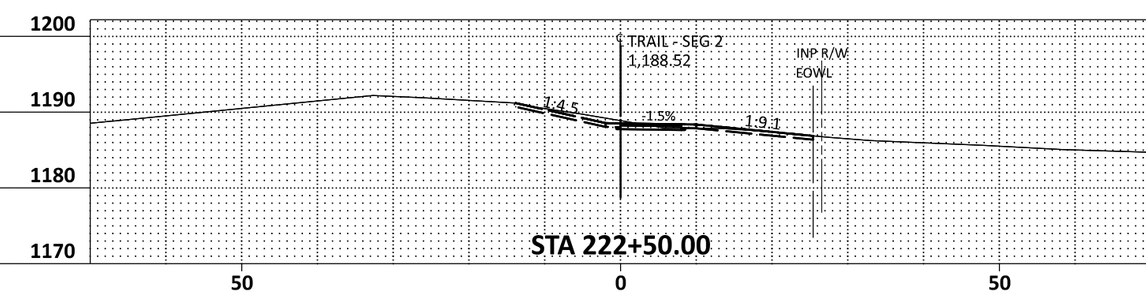






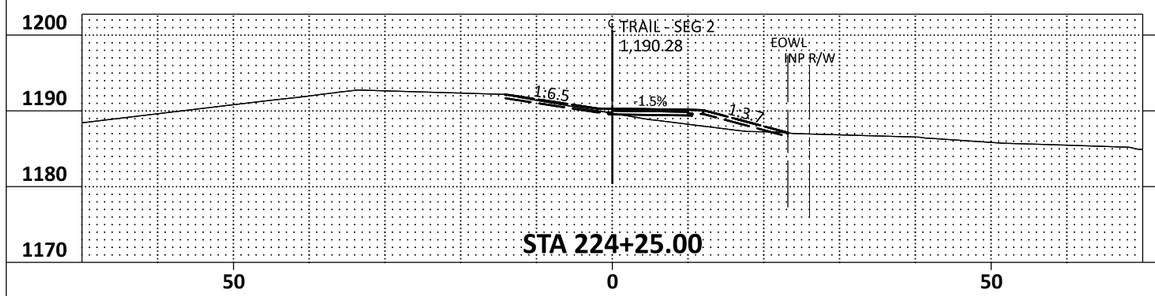


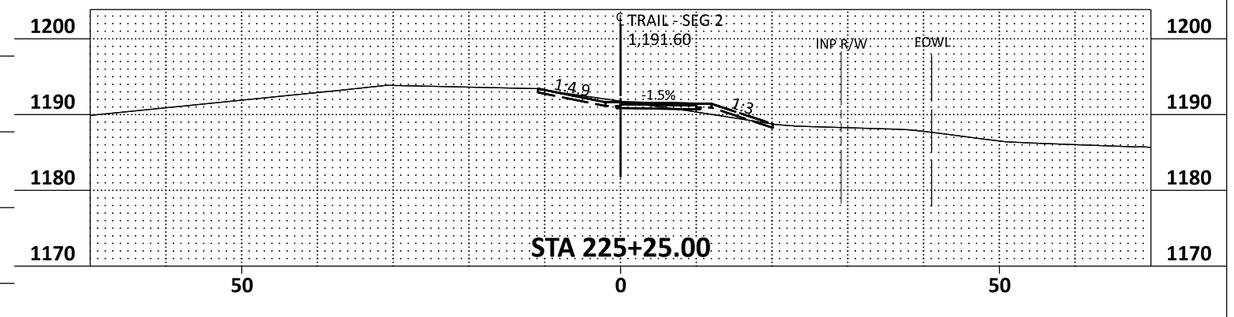


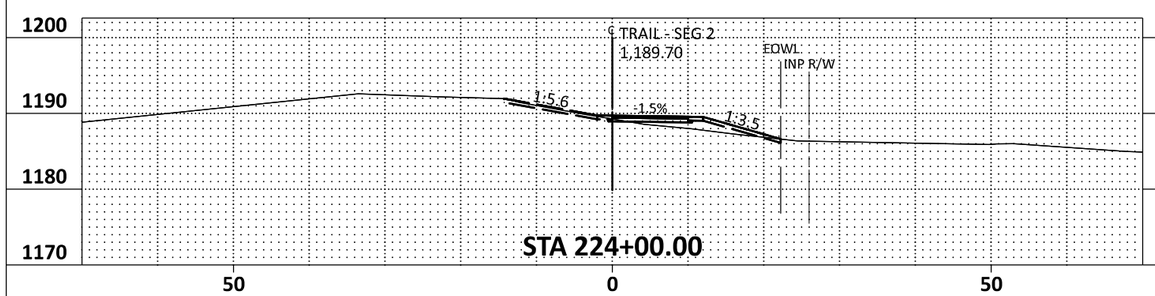


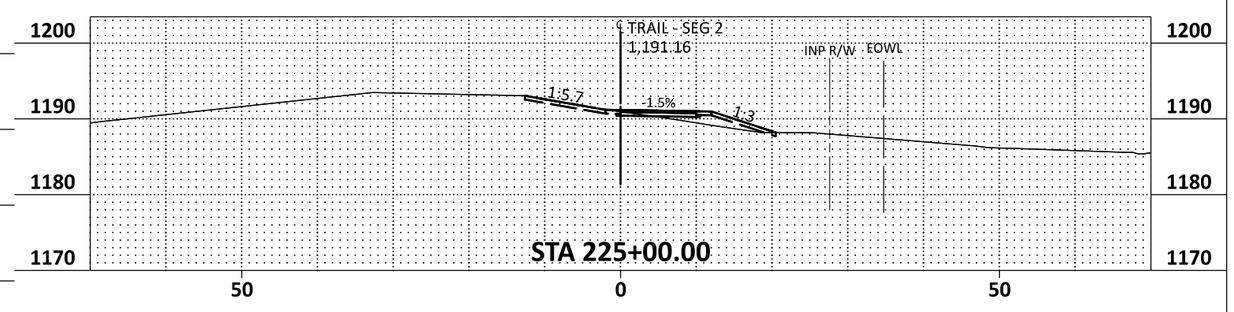
DATE: 4/20/2026 TIME: 9:53:12 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

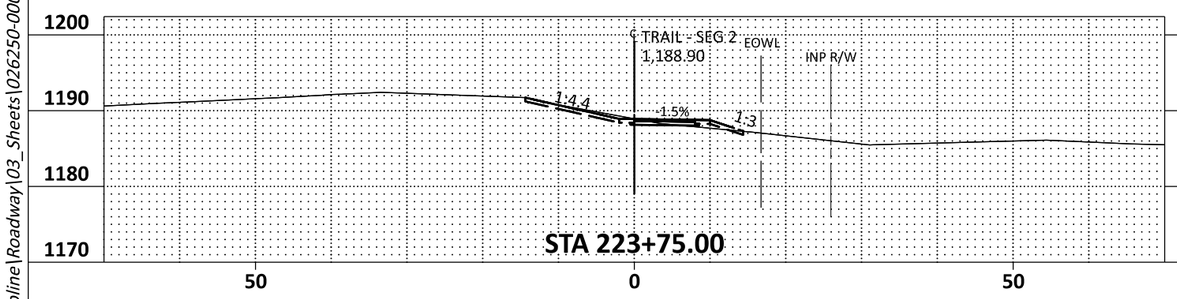
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK		wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X21 of X27 Sheets

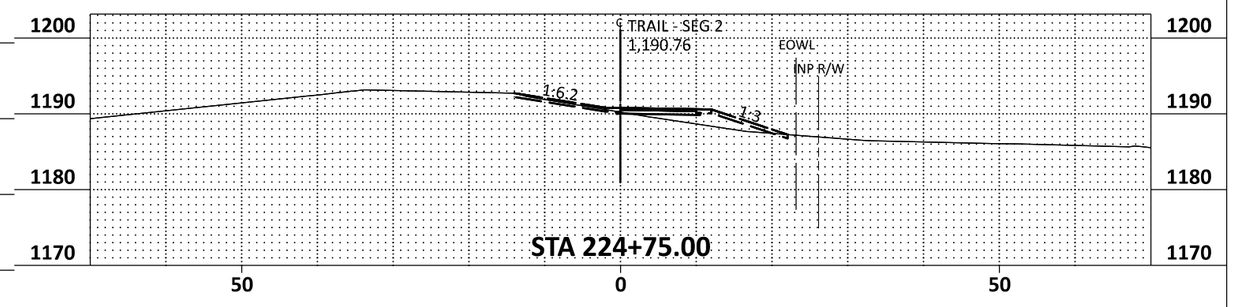


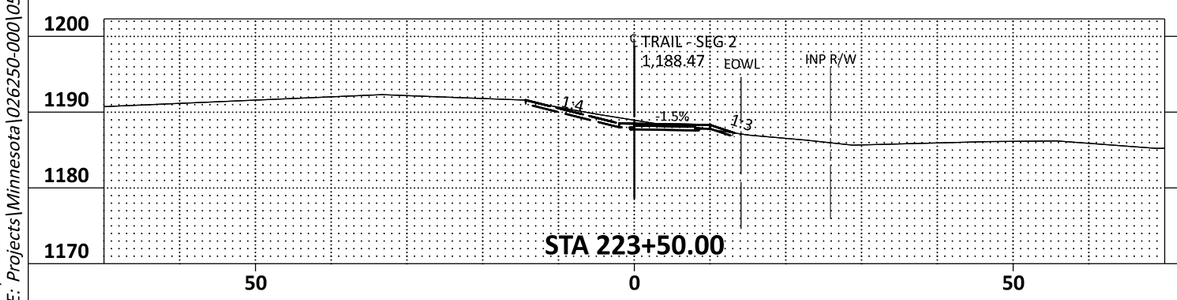


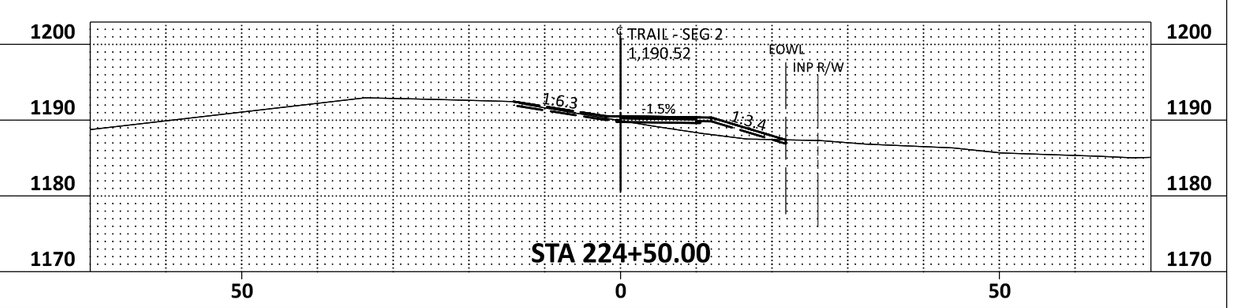






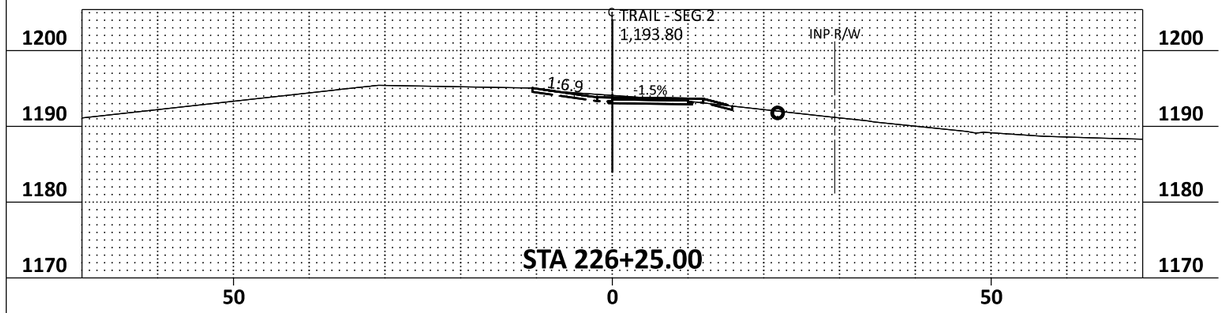


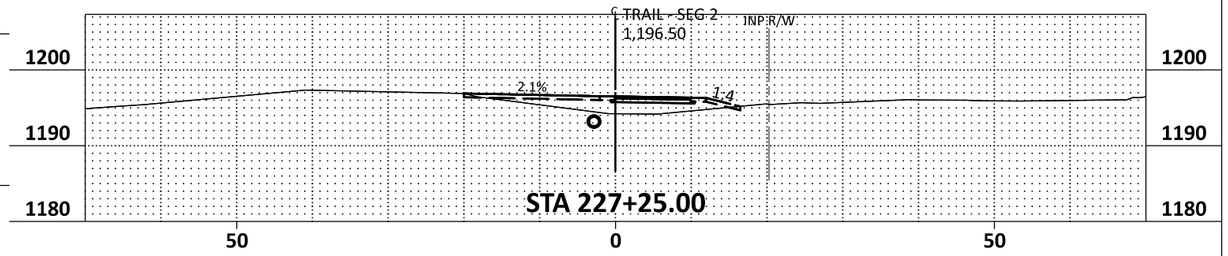


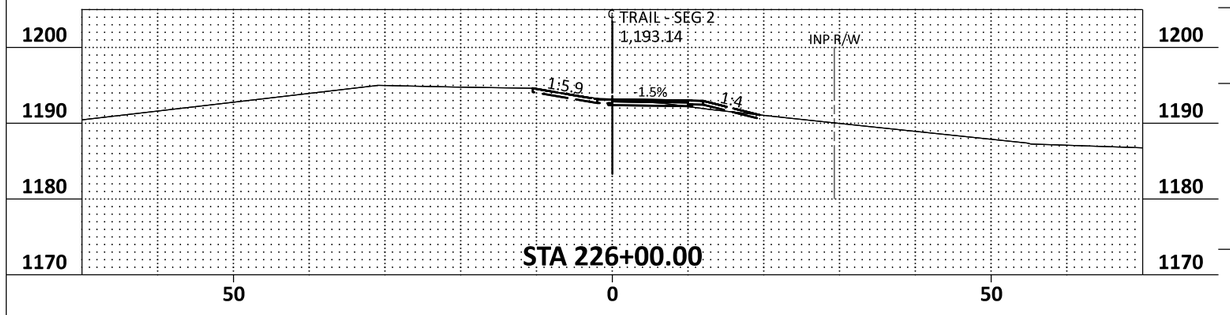


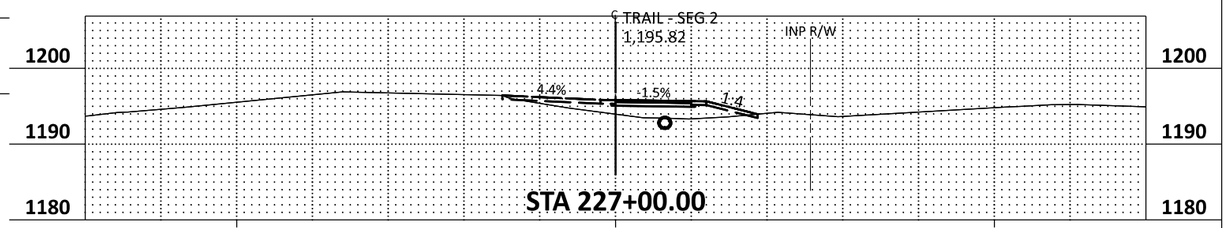
DATE: 4/20/2026 TIME: 9:53:14 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

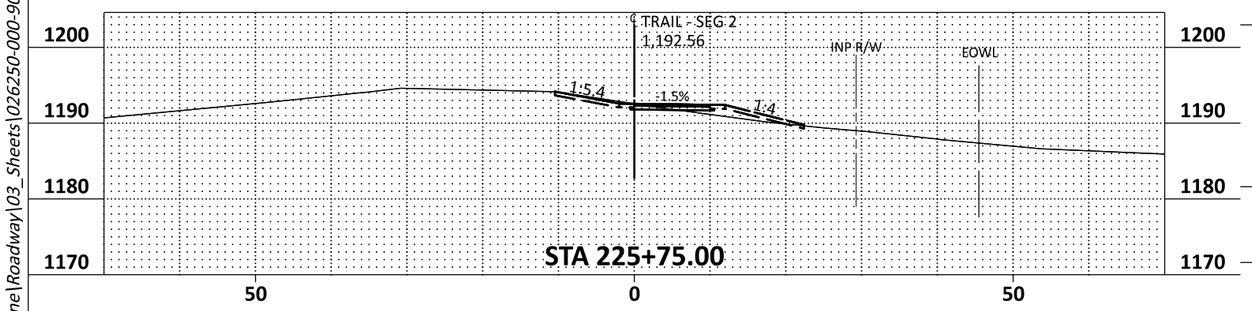
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK		wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X22 of X27 Sheets

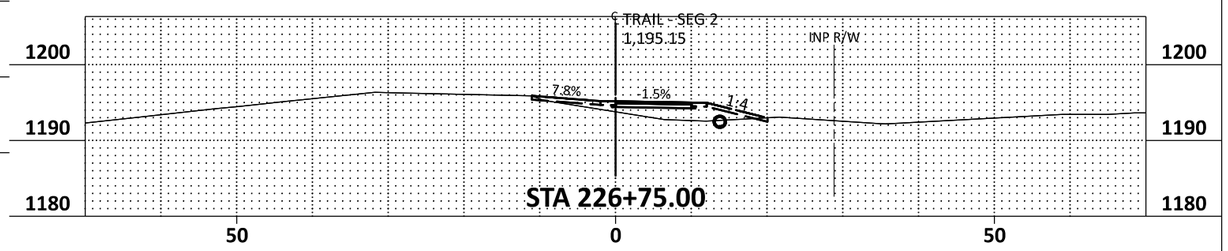


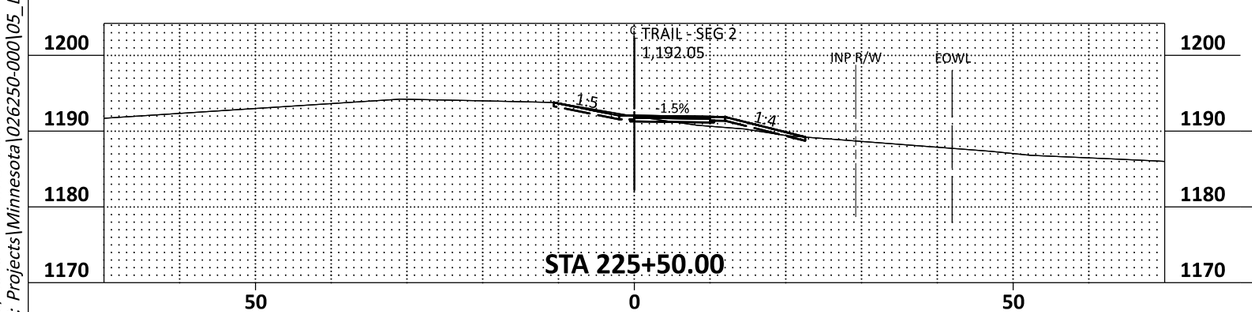


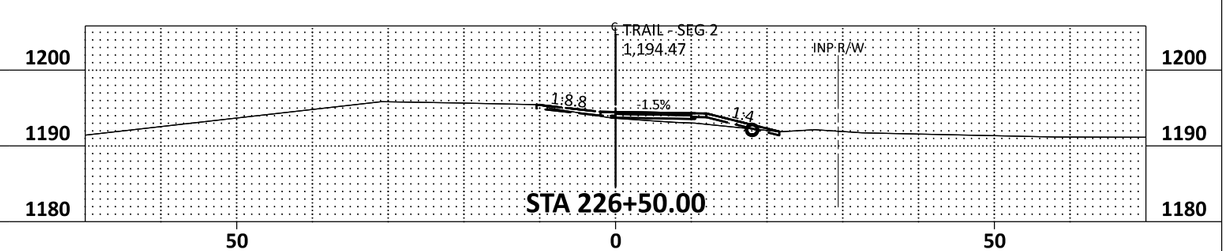






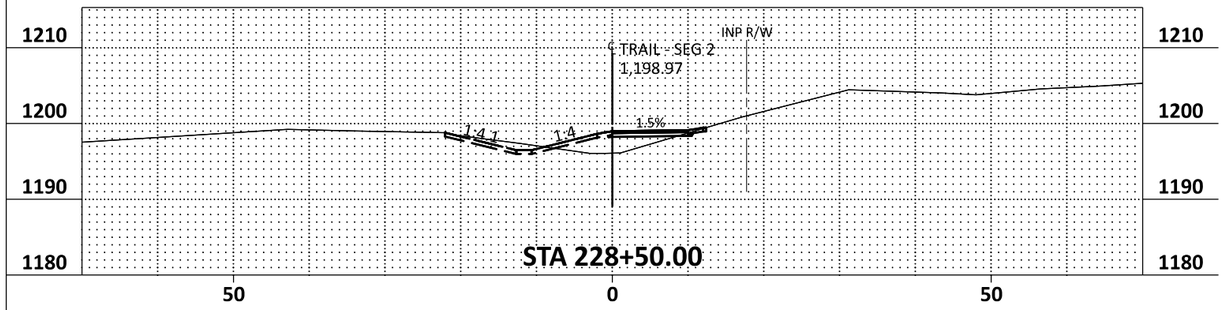


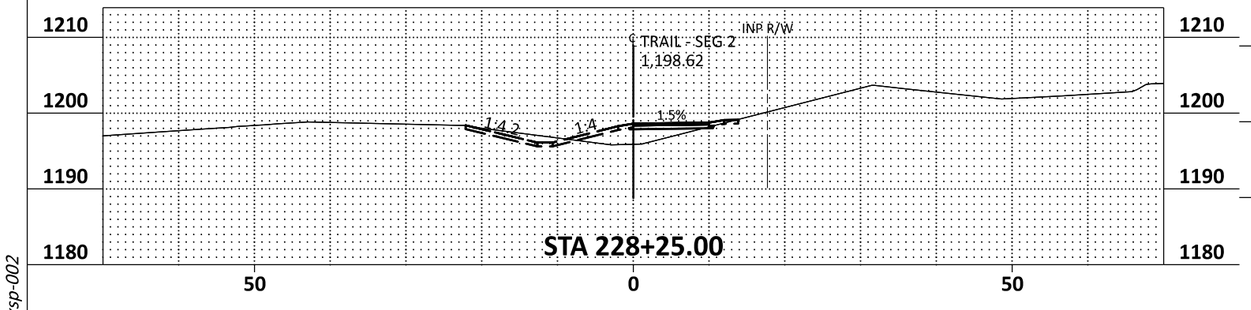


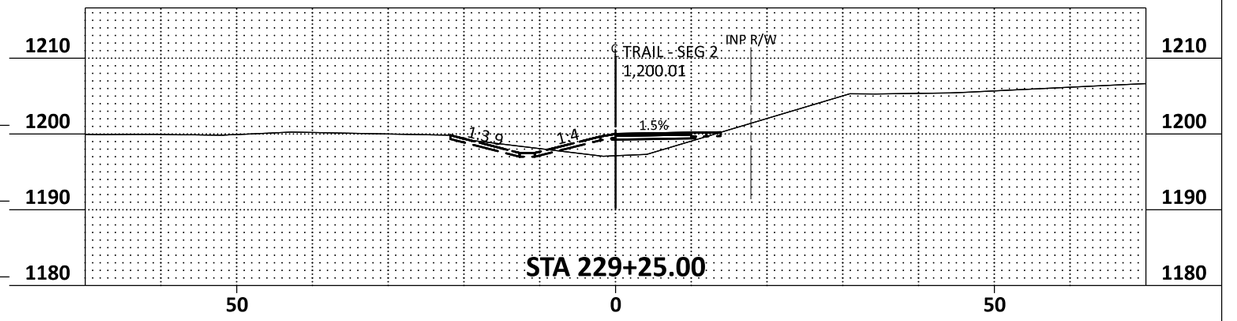


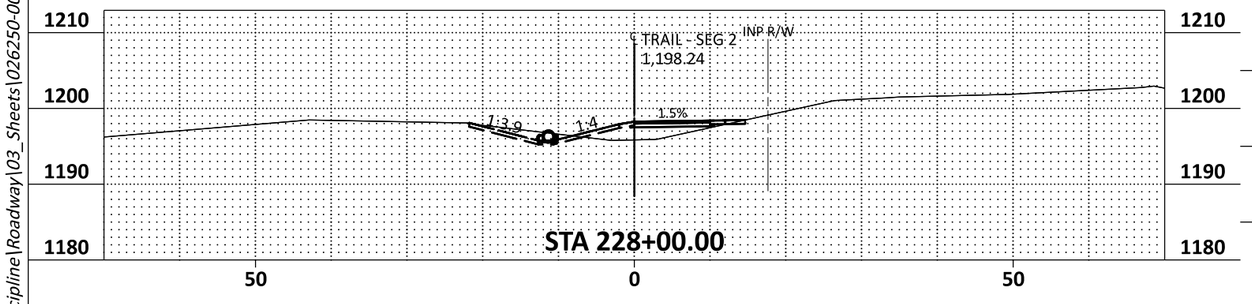
DATE: 4/20/2026 TIME: 9:53:17 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

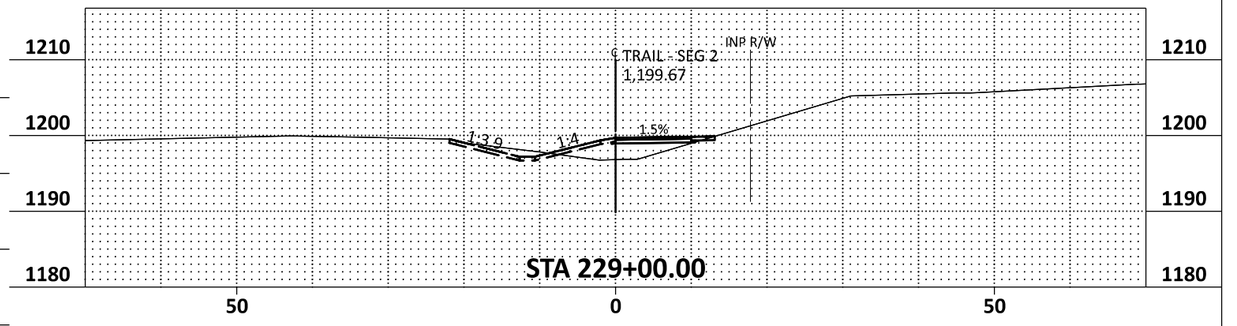
DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK	wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X23 of X27 Sheets

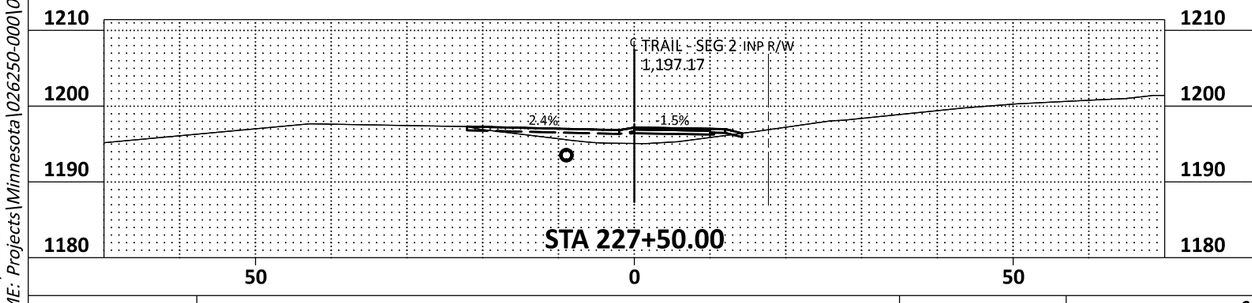


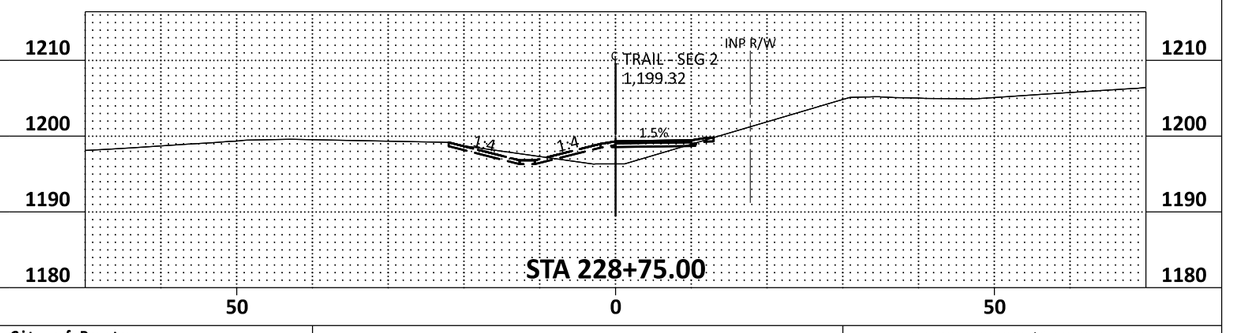












DATE: 4/20/2026 TIME: 9:53:20 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

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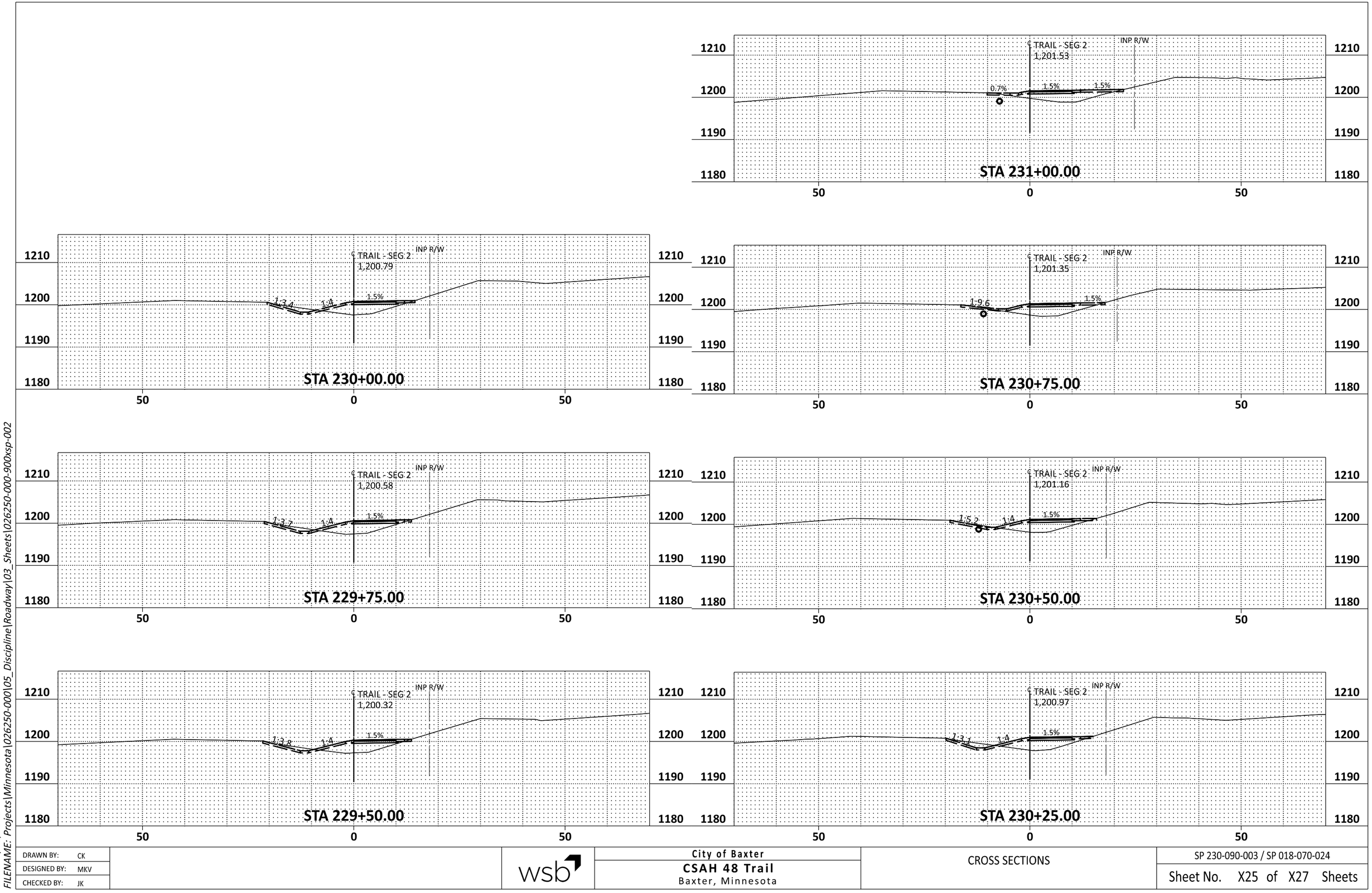

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FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

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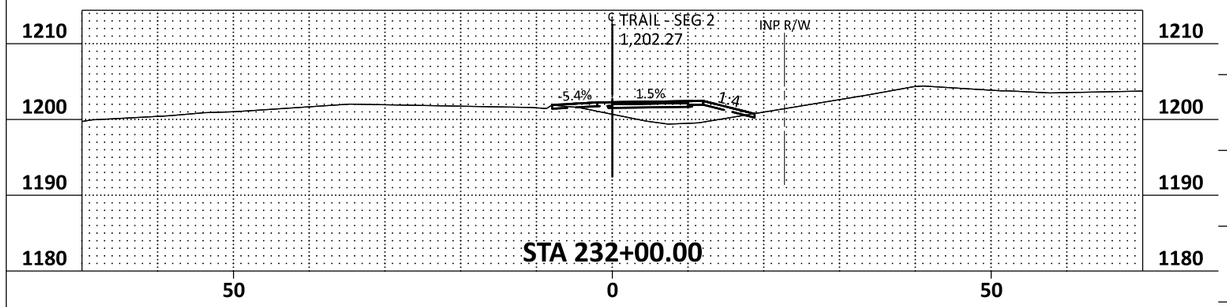

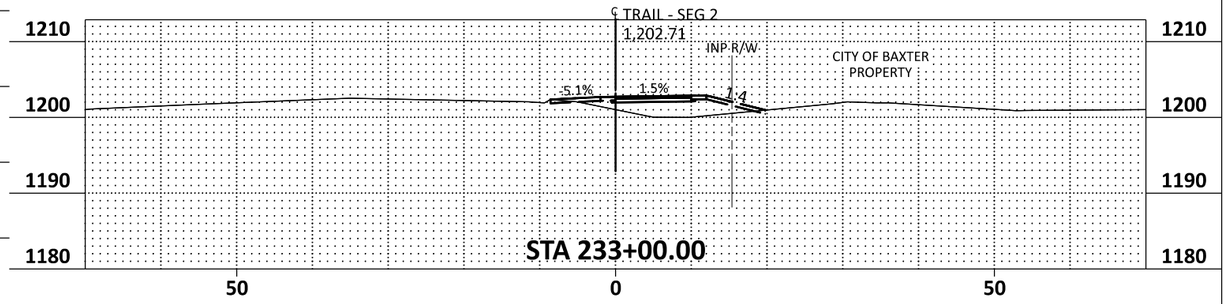

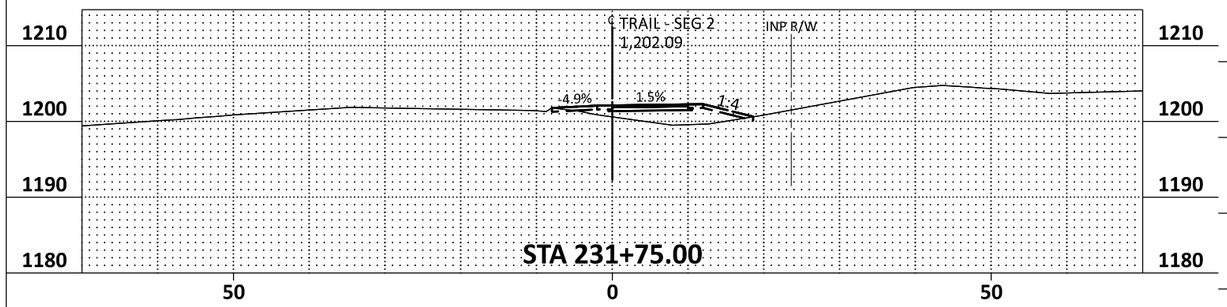

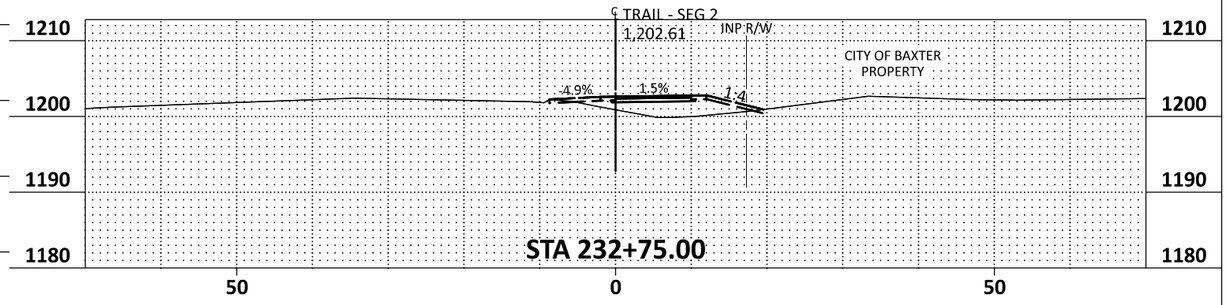

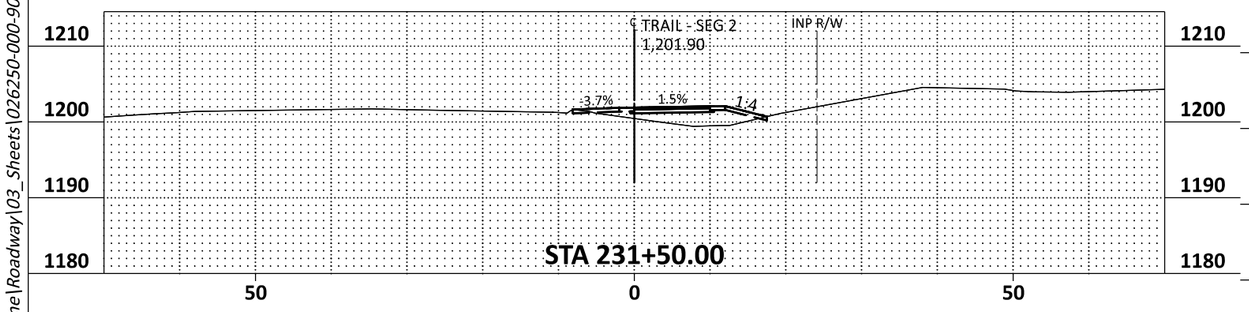

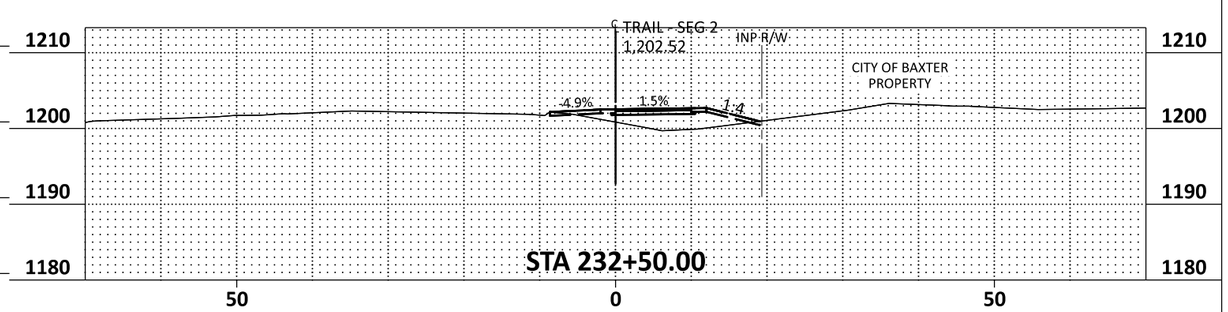

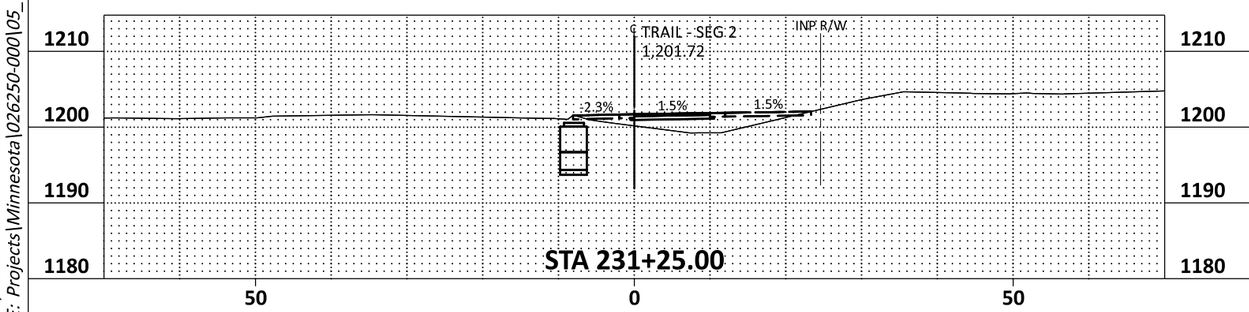

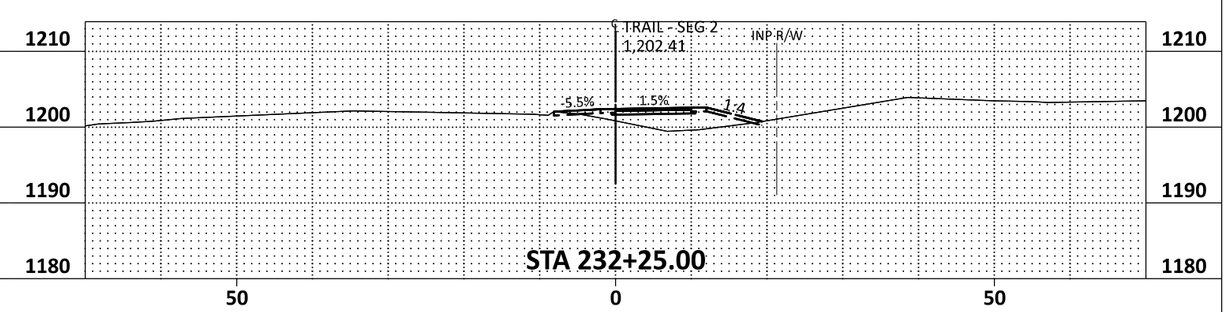

DATE: 4/20/2026 TIME: 9:53:25 AM
FILENAME: Projects\Minnesota\026250-000\05_Discipline\Roadway\03_Sheets\026250-000-900xsp-002

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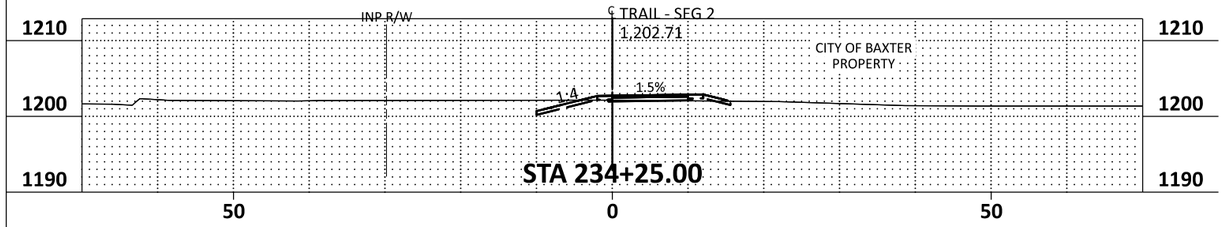

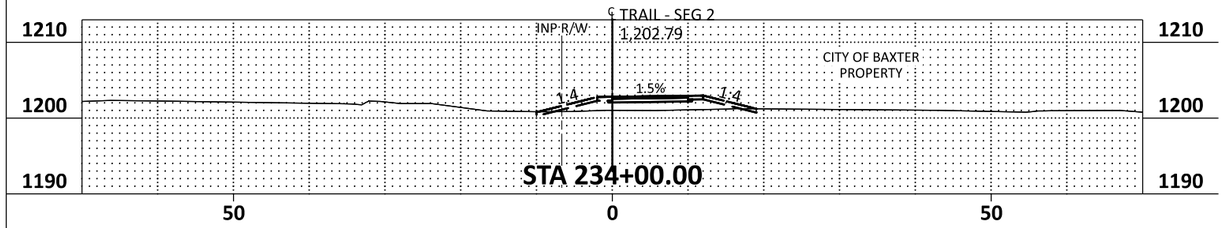

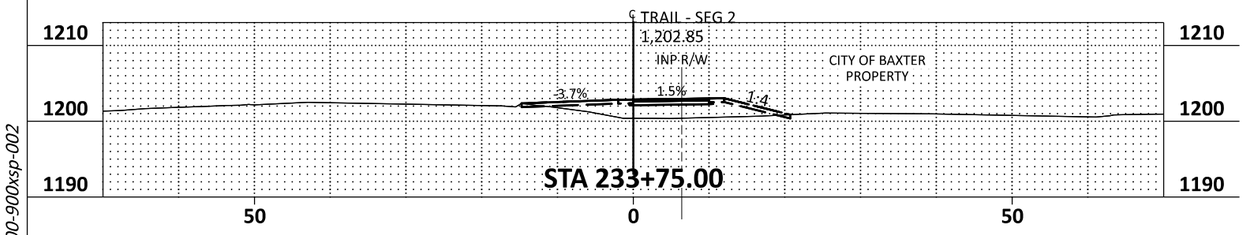

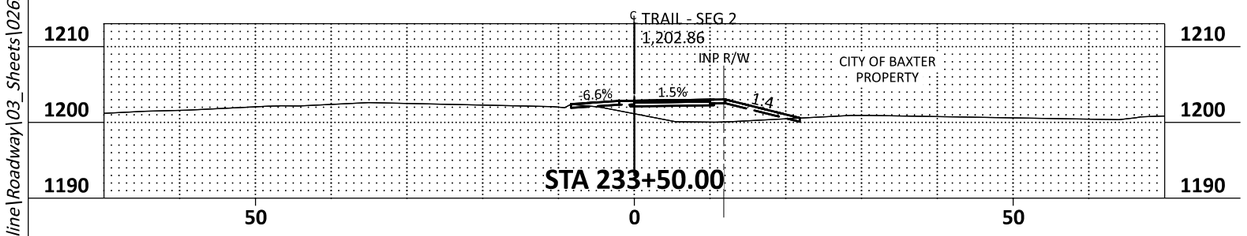

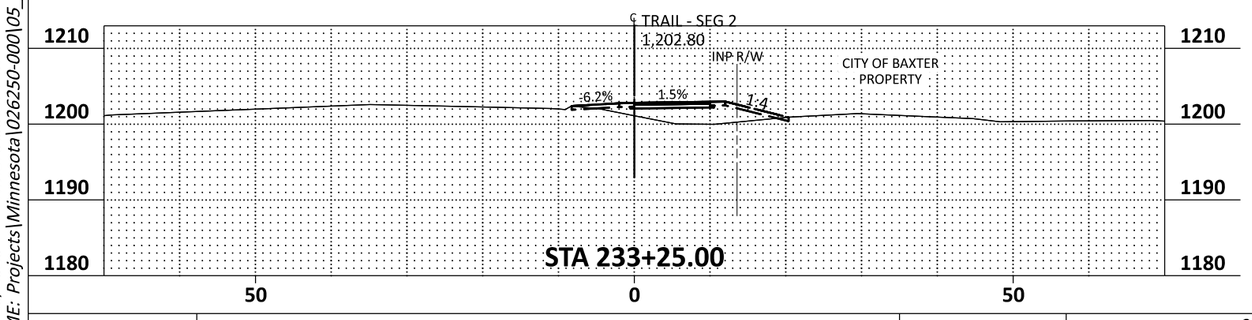

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DRAWN BY: CK DESIGNED BY: MKV CHECKED BY: JK		wsb	City of Baxter **CSAH 48 Trail** Baxter, Minnesota	CROSS SECTIONS	SP 230-090-003 / SP 018-070-024 Sheet No. X27 of X27 Sheets