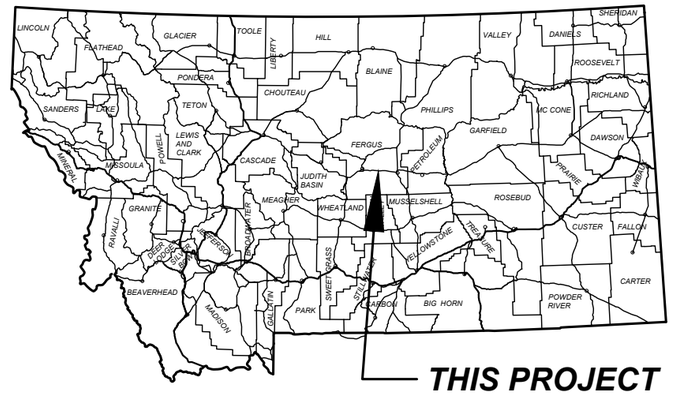
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MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT HSIP-NH 57-3(66)94

PL. MIX SURF., GRADE, GRAVEL

SF 169 N57 SLDR WID & SLP FLAT

FERGUS COUNTY

LENGTH 0.8 MILES

RP 95.573
28.5' X 38.0' TIMBER BRIDGE
P00057095+05731
MDT ID #05990
PARR CREEK
NOT THIS CONTRACT
TO BE REPLACED UNDER NHPB STWD(787)

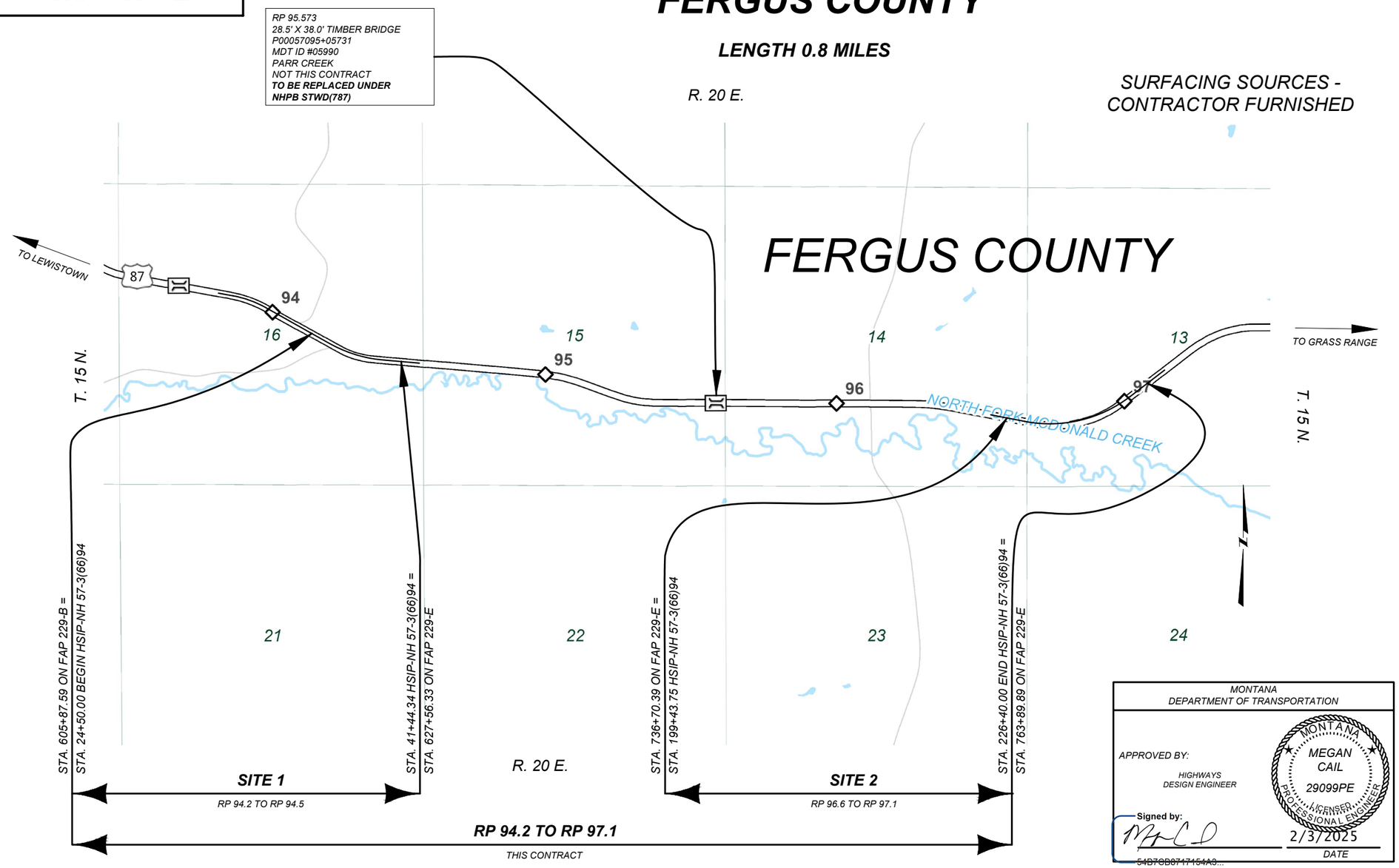
SURFACING SOURCES - CONTRACTOR FURNISHED

PROJECT DESIGN DATA

PRESENT	2023	A.D.T. =	1490
LETTING	2023	A.D.T. =	1490
DESIGN	2043	A.D.T. =	1820
		D.H.V. =	280
		TRUCKS =	14.3%
		V. =	60 MPH
		18 KIP ESAL'S =	110 DAILY
		GROWTH RATE =	1.0%

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R/W	HSIP 57-3(74)94
I.C.	HSIP 57-3(75)94
P.E.	HSIP 57-3(65)94

RELATED PROJECTS
NHPB STWD(787)



MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY:
HIGHWAYS
DESIGN ENGINEER

MONTANA
MEGAN CAIL
29099PE
LICENSED PROFESSIONAL ENGINEER

Signed by:
54B7CB8747154A3...
2/3/2025
DATE

SHEET NO.
1

TITLE SHEET

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY: A. BOSE 07/2024
REVIEWED BY: J. BROTZLER 07/2024
CHECKED BY: T. JOHNSON 04/2024
9422000RDTTL001_NEW.DWG

MONTANA
Department of Transportation

ROAD PLANS

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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

COMP. AGGREGATE WEIGHT	= 3625 LBS. PER CUBIC YARD
COMP. WEIGHT OF PL. MIX BIT. SURF.	= 4167 LBS. PER CUBIC YARD
BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
EMULSIFIED ASPHALT - TACK (ALL OTHER SURFACES)	= 0.05 GAL. PER SQ.YARD (UNDILUTED)
EMULSIFIED ASPHALT - FOG SEAL (RUMBLE STRIPS)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

MAILBOX TURNOUTS

CONSTRUCT MAILBOX TURNOUTS AT LOCATIONS SHOWN IN THE PLANS OR AS STAKED BY THE PROJECT MANAGER.

PROVIDE THE FOLLOWING SURFACING:
- 0.3' PLANT MIX BITUMINOUS SURF.
- 0.75' CRUSHED AGGREGATE COURSE

CLEARING AND GRUBBING

CLEAR AND GRUB TO CONSTRUCTION LIMITS. INCLUDE THE COST OF CLEARING AND GRUBBING IN THE UNIT PRICE BID FOR UNCLASSIFIED EXCAVATION.

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING. ALL CLEARANCES OR DEPTHS PROVIDED FOR UTILITIES ARE FROM EXISTING GROUND LINE.

SOILS INFORMATION

SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION. THE LOCATION OF GEOTECHNICAL BORINGS IS SHOWN ON THE PLAN VIEW WITH THE FOLLOWING SYMBOL:

BORING NUMBER



(GEOTECHNICAL BORING)

WETLANDS

A WETLAND DELINEATION WAS CONDUCTED FOR THIS PROJECT. NO WETLANDS WERE DELINEATED WITHIN THE PROJECT LIMITS. WETLANDS MAY EXIST BEYOND THE PROJECT LIMITS. ANY ACTION IMPACTING WETLAND AREAS OUTSIDE OF THE PERMANENT IMPACT AREAS SHOWN IS THE RESPONSIBILITY OF THE CONTRACTOR.

SHEET NO.
2

NOTES SHEET

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	07/2024	REVIEWED BY	07/2024	CHECKED BY	04/2024
A. BOSE		J. BROTZLER		T. JOHNSON	

MONTANA
Department of Transportation

ROAD PLANS

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CENTERLINE COORDINATE TABLE AND APPROACHES TABLE

CENTERLINE COORDINATE TABLE - SITE 1

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
6+20.99	BOA	1026071.559	2043559.635	
8+87.51	PC	1026022.996	2043821.691	
15+15.48	PT	1025810.025	2044409.449	
16+50.00	POT	1025744.120	2044526.714	
24+50.00	POT	1025352.168	2045224.119	BEG. SITE 1
28+17.59	PC	1025172.072	2045544.565	
38+20.69	PT	1024879.216	2046496.024	
41+44.34	POT	1024851.685	2046818.496	END SITE 1
44+70.17	EOA	1024823.969	2047143.143	

ALIGNMENT: **HA_West_Crv - NEW.xml**

CENTERLINE COORDINATE TABLE - SITE 2

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
196+50.00	BOA	1023901.651	2057331.365	
199+43.75	POT	1023845.804	2057619.758	BEG. SITE 2
201+00.00	POT	1023816.098	2057773.158	
202+67.40	PC	1023784.273	2057937.501	
222+58.57	PT	1024229.218	2059817.716	
224+83.75	POT	1024366.570	2059996.151	
226+40.00	POT	1024461.878	2060119.968	END SITE 2
230+31.69	EOA	1024700.799	2060430.353	

ALIGNMENT: **HA_East_Crv - NEW.xml**

* APPROACHES (FOR INFORMATION ONLY)

STATION	TYPE	linear feet				EXISTING SURFACING	feet		PROPOSED SURFACE	sq. yards	tons		cu. yards		tons	gallons	sq. yards		REMARKS
		WIDTH	RADIUS #		LENGTH		PMS THK.	CAC THK.		COVER TYPE 1	COMM. MIX-PG 58V-34	COMM. PLANT MIX - MISC	CRUSHED AGG. COURSE	SPECIAL BORROW NEAT LINE	EMULS. ASPHALT CHFRS-2P	EMULS. ASPHALT TACK	AGG. TREAT.	STAB. GEOTEXTILE	
			LEFT	RIGHT															
220+48	FARM FIELD	12	25	25	69.8	GRAVEL	0.2	0.6	12' ASPHALT STRIP, GRAVEL TO LENGTH			7	26			2	128		BOYCE RANCH FARM FIELD APP. LT
SUBTOTAL	FARM FIELD									~	~	7	26	~	~	2	128	~	
220+48	PRIVATE	24	%	%	162.8	GRAVEL	0.2	0.6	ASPHALT TO ROW, GRAVEL TO LENGTH	339		52	117		0.6	18	584		BOYCE RANCH PRIV. APP. RT
SUBTOTAL	PRIVATE									339	~	52	117	~	0.6	18	584	~	
27+70	PUBLIC	24	%	%	411.5	GRAVEL	0.2	0.6	ASPHALT TO ROW, GRAVEL TO LENGTH	417	65		266		0.7	22	1,330		DIVIDE ROAD RT.
SUBTOTAL	PUBLIC									417	65	~	266	~	0.7	22	1,330	~	

% SEE GEOMETRIC DETAILS
# ALL RADII MEASURED TO EDGE OF SHOULDER
* APPROACH QUANTITIES MEASURED ON CADD

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

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MONTANA Department of Transportation

ROAD PLANS

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CONTROL DIAGRAM

SCALE: N/A

NOTE:

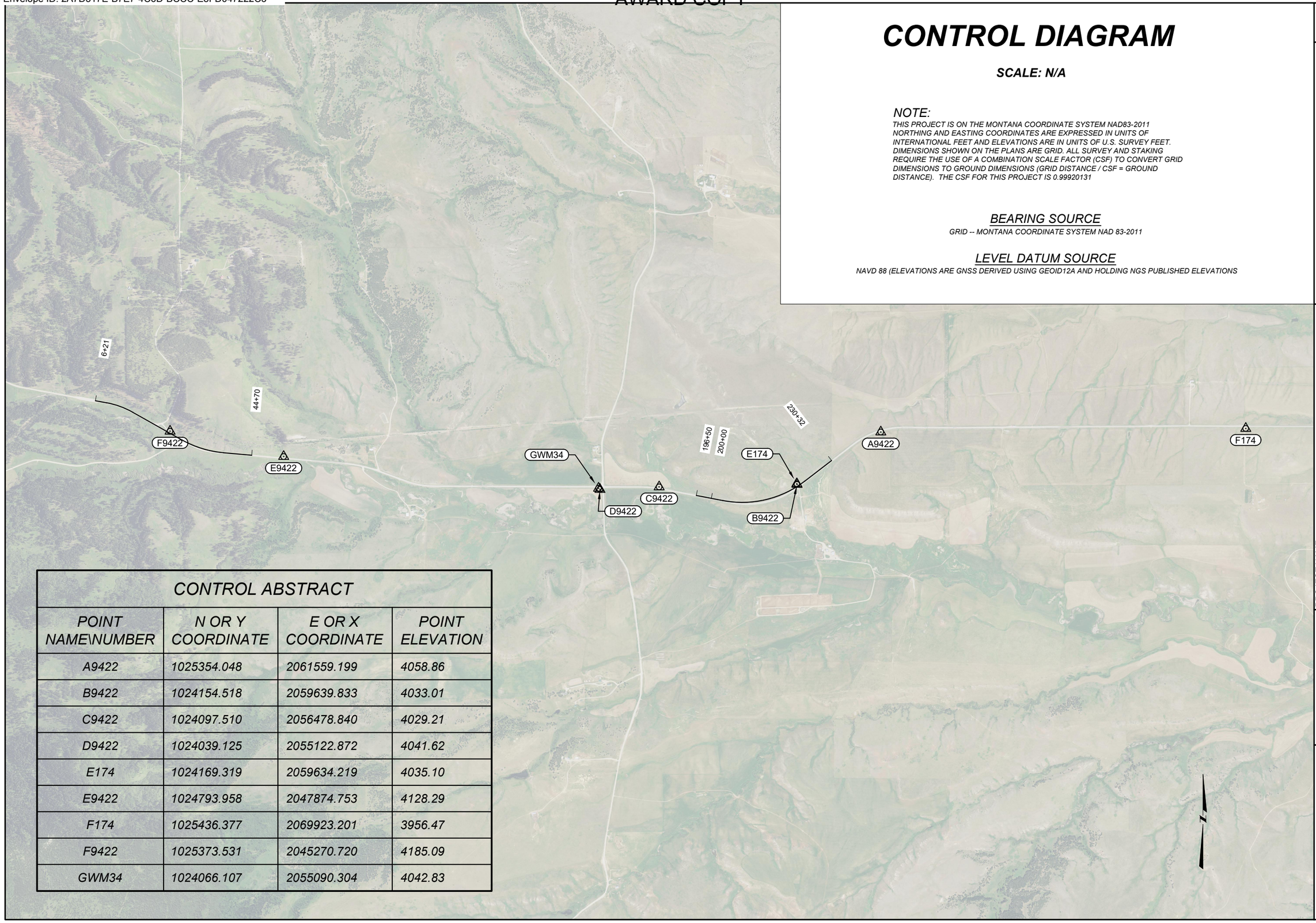
THIS PROJECT IS ON THE MONTANA COORDINATE SYSTEM NAD83-2011 NORTHING AND EASTING COORDINATES ARE EXPRESSED IN UNITS OF INTERNATIONAL FEET AND ELEVATIONS ARE IN UNITS OF U.S. SURVEY FEET. DIMENSIONS SHOWN ON THE PLANS ARE GRID. ALL SURVEY AND STAKING REQUIRE THE USE OF A COMBINATION SCALE FACTOR (CSF) TO CONVERT GRID DIMENSIONS TO GROUND DIMENSIONS (GRID DISTANCE / CSF = GROUND DISTANCE). THE CSF FOR THIS PROJECT IS 0.99920131

BEARING SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011

LEVEL DATUM SOURCE

NAVD 88 (ELEVATIONS ARE GNSS DERIVED USING GEOID12A AND HOLDING NGS PUBLISHED ELEVATIONS



CONTROL ABSTRACT

POINT NAME\NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
A9422	1025354.048	2061559.199	4058.86
B9422	1024154.518	2059639.833	4033.01
C9422	1024097.510	2056478.840	4029.21
D9422	1024039.125	2055122.872	4041.62
E174	1024169.319	2059634.219	4035.10
E9422	1024793.958	2047874.753	4128.29
F174	1025436.377	2069923.201	3956.47
F9422	1025373.531	2045270.720	4185.09
GWM34	1024066.107	2055090.304	4042.83

SHEET NO. 4

CONTROL DIAGRAM

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT

COUNTY: FERGUS COUNTY

PROJECT ID: HSIP-NH 57-3(66)94

UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	
REVIEWED BY	J. BROTZLER	07/2024	
CHECKED BY	T. JOHNSON	04/2024	

MONTANA Department of Transportation

ROAD PLANS

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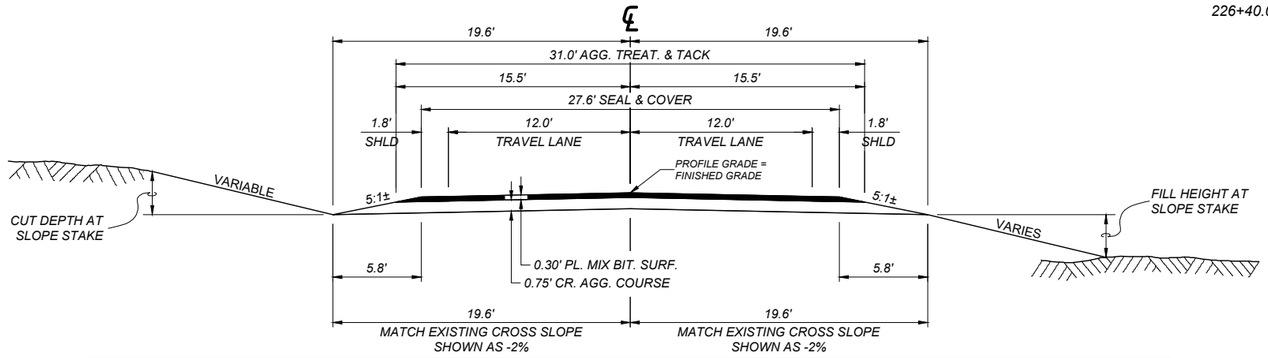
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TYPICAL SECTION NO. 1

MAINLINE

SITE 1		
24+50.00	ONLY	TYP. NO. 1
24+50.00	TO 24+62.00	TRANS. TYP. NO. 1 TO TYP. NO. 2
41+44.34	ONLY	TYP. NO. 1

SITE 2		
199+43.75	ONLY	TYP. NO. 1
199+43.75	TO 199+55.75	TRANS. TYP. NO. 1 TO TYP. NO. 2
226+40.00	ONLY	TYP. NO. 1



QUANTITIES									
UNIT	AGGREGATE				STABILIZATION GEOTEXTILE	UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE	SPECIAL BORROW NEAT LINE			EMULSIFIED ASPHALT CHFRS-2P	EMULSIFIED ASPHALT TACK*	AGG. TREATMENT
AREA square feet		8.79	26.33	#		square yards PER STATION	307	688	344
cubic yards PER STATION		32.6	97.5	#		tons PER STATION	0.55		
tons PER STATION		67.9			#	gals. PER STATION		34	
square yards PER STATION	307								

SEE SURFACING SUMMARY FOR QUANTITIES. QUANTITIES MEASURED ON CAD

* BASED ON 2 APPLICATIONS

*FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

*BACK SLOPES	
0' - 5'	5:1
5' - 10'	4:1
10' - 15'	3:1
OVER 20'	2:1

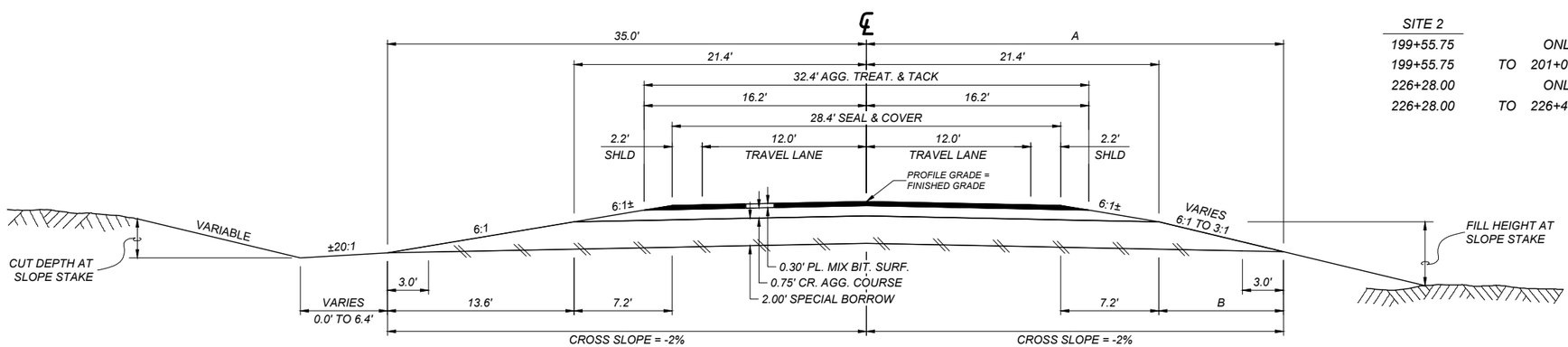
*SEE CROSS SECTIONS FOR DEVIATIONS

TYPICAL SECTION NO. 2

MAINLINE

SITE 1		
24+62.00	ONLY	TYP. NO. 2
24+62.00	TO 26+06.25	TRANS. TYP. NO. 2 TO TYP. NO. 3
41+32.34	ONLY	TYP. NO. 2
41+32.34	TO 41+44.34	TRANS. TYP. NO. 2 TO TYP. NO. 1

SITE 2		
199+55.75	ONLY	TYP. NO. 2
199+55.75	TO 201+00.00	TRANS. TYP. NO. 2 TO TYP. NO. 3
226+28.00	ONLY	TYP. NO. 2
226+28.00	TO 226+40.00	TRANS. TYP. NO. 2 TO TYP. NO. 1



QUANTITIES									
UNIT	AGGREGATE				STABILIZATION GEOTEXTILE	UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE	SPECIAL BORROW NEAT LINE			EMULSIFIED ASPHALT CHFRS-2P	EMULSIFIED ASPHALT TACK*	AGG. TREATMENT
AREA square feet		9.12	28.20	#		square yards PER STATION	316	720	360
cubic yards PER STATION		33.8	104.4	#		tons PER STATION	0.56		
tons PER STATION		70.4			#	gals. PER STATION		36	
square yards PER STATION	316								

SEE SURFACING SUMMARY FOR QUANTITIES. QUANTITIES MEASURED ON CAD

* BASED ON 2 APPLICATIONS

SPECIAL BORROW FILL SLOPE	WIDTHS (ft)	
	A	B
6:1	35.0	13.6
5:1	32.5	11.1
4:1	30.1	8.7
3:1	27.7	6.4

SHEET NO. 5

TYPICAL SECTIONS

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY: A. BOSE 07/2024
REVIEWED BY: J. BROTZLER 07/2024
CHECKED BY: T. JOHNSON 04/2024
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MONTANA Department of Transportation

ROAD PLANS

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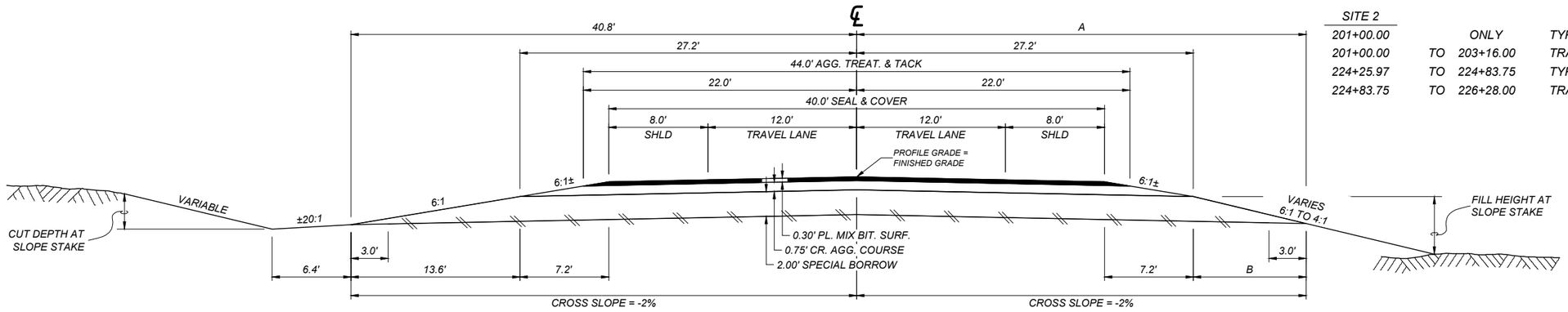
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TYPICAL SECTION NO. 3

MAINLINE

SITE 1			
26+06.25	TO	26+50.19	TYP. NO. 3
26+50.19	TO	28+66.19	TRANS. TYP. NO. 3 TO TYP. NO. 4
39+88.09		ONLY	TYP. NO. 3
39+88.09	TO	41+32.34	TRANS. TYP. NO. 3 TO TYP. NO. 2

SITE 2			
201+00.00		ONLY	TYP. NO. 3
201+00.00	TO	203+16.00	TRANS. TYP. NO. 3 TO TYP. NO. 4
224+25.97	TO	224+83.75	TYP. NO. 3
224+83.75	TO	226+28.00	TRANS. TYP. NO. 3 TO TYP. NO. 2



QUANTITIES									
UNIT	AGGREGATE				STABILIZATION GEOTEXTILE	UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE	SPECIAL BORROW NEAT LINE			EMULSIFIED ASPHALT CHFRS-2P	EMULSIFIED ASPHALT TACK*	AGG. TREATMENT
AREA square feet		12.60	36.90	#		square yards PER STATION	444	978	489
cubic yards PER STATION		46.7	136.7	#		tons PER STATION	0.79		
tons PER STATION		97.3			#	gals. PER STATION		49	
square yards PER STATION	444								

SEE SURFACING SUMMARY FOR QUANTITIES. QUANTITIES MEASURED ON CAD

* BASED ON 2 APPLICATIONS

SPECIAL BORROW FILL SLOPE	WIDTHS (ft)	
	A	B
6:1	40.8	13.6
5:1	38.3	11.1
4:1	35.9	8.7

*FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

*BACK SLOPES	
0' - 5'	5:1
5' - 10'	4:1
10' - 15'	3:1
OVER 20'	2:1

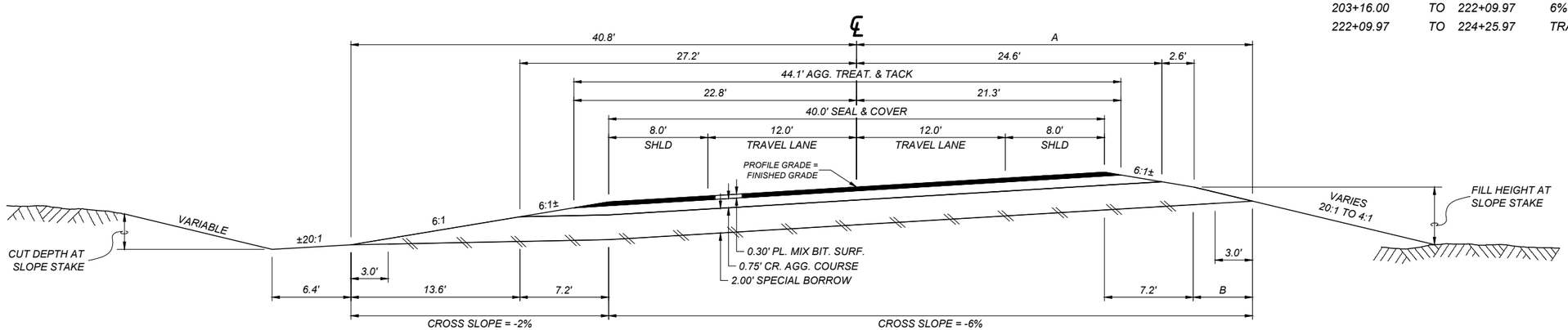
*SEE CROSS SECTIONS FOR DEVIATIONS

TYPICAL SECTION NO. 4

MAINLINE

SITE 1			
28+66.19	TO	37+72.09	6% LT.
37+72.09	TO	39+88.09	TRANS. TYP. NO. 4 TO TYP. NO. 3

SITE 2			
203+16.00	TO	222+09.97	6% LT.
222+09.97	TO	224+25.97	TRANS. TYP. NO. 4 TO TYP. NO. 3



QUANTITIES									
UNIT	AGGREGATE				STABILIZATION GEOTEXTILE	UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX	CR. AGG. COURSE	SPECIAL BORROW NEAT LINE			EMULSIFIED ASPHALT CHFRS-2P	EMULSIFIED ASPHALT TACK*	AGG. TREATMENT
AREA square feet		12.62	35.96	#		square yards PER STATION	444	980	490
cubic yards PER STATION		46.7	133.2	#		tons PER STATION	0.79		
tons PER STATION		97.3			#	gals. PER STATION		49	
square yards PER STATION	444								

SEE SURFACING SUMMARY FOR QUANTITIES. QUANTITIES MEASURED ON CAD

* BASED ON 2 APPLICATIONS

SPECIAL BORROW FILL SLOPE	WIDTHS (ft)	
	A	B
20:1	40.2	13.0
6:1	33.4	6.3
5:1	32.6	5.5
4:1	31.8	4.6

SHEET NO.
6

TYPICAL SECTIONS

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	CHECKED BY
A. BOSE 07/2024	T. JOHNSON 04/2024
REVIEWED BY	
J. BROTZLER 07/2024	

MONTANA Department of Transportation

ROAD PLANS

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SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE 1	AGGREGATE tons COMMERCIAL MIX-PG 58H-34	AGGREGATE tons COMMERCIAL PLANT MIX - MISC	AGGREGATE cu. yards CRUSHED AGG. COURSE	AGGREGATE cu. yards SPECIAL BORROW NEAT LINE *	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	sq. yards AGG. TREAT.	sq. yards STABILIZATION GEOTEXTILE *	REMARKS
SITE 1																
24+50.00	24+62.00	12.00	12.00				37	8		12	23	0.1	4	42	61	TRANS. TYP. NO. 1 TO TYP. NO. 2
24+62.00	26+06.25	144.25	144.25				548	121		174	647	1.0	61	612	1,075	TRANS. TYP. NO. 2 TO TYP. NO. 3
26+06.25	26+50.19	43.94	43.94				195	43		60	221	0.3	22	215	328	TYP. NO. 3
26+50.19	28+66.19	216.00	216.00				959	210		291	1,031	1.7	106	1,057	1,610	TRANS. TYP. NO. 3 TO TYP. NO. 4
28+66.19	37+72.09	905.90	905.90				4,022	881		1,207	4,182	7.2	444	4,439	6,754	TYP. NO. 4
37+72.09	39+88.09	216.00	216.00				959	210		291	1,021	1.7	106	1,057	1,610	TRANS. TYP. NO. 4 TO TYP. NO. 3
39+88.09	41+32.34	144.25	144.25				548	121		174	633	1.0	61	612	1,075	TRANS. TYP. NO. 3 TO TYP. NO. 2
41+32.34	41+44.34	12.00	12.00				37	8		12	23	0.1	4	42	60	TRANS. TYP. NO. 2 TO TYP. NO. 1
SUBTOTAL		1,694.34	1,694.34				7,305	1,602		2,221	7,781	13.1	808	8,076	12,573	
SITE 2																
199+43.75	199+55.75	12.00	12.00				37	8		12	24	0.1	4	42	62	TRANS. TYP. NO. 1 TO TYP. NO. 2
199+55.75	201+00.00	144.25	144.25				548	121		174	658	1.0	61	612	1,106	TRANS. TYP. NO. 2 TO TYP. NO. 3
201+00.00	203+16.00	216.00	216.00				959	210		291	1,033	1.7	106	1,057	1,656	TRANS. TYP. NO. 3 TO TYP. NO. 4
203+16.00	222+09.97	1,893.97	1,893.97				8,409	1,843		2,523	8,860	15.0	928	9,280	14,523	TYP. NO. 4
222+09.97	224+25.97	216.00	216.00				959	210		291	1,042	1.7	106	1,057	1,656	TRANS. TYP. NO. 4 TO TYP. NO. 3
224+25.97	224+83.75	57.78	57.78				257	56		79	291	0.5	28	283	443	TYP. NO. 3
224+83.75	226+28.00	144.25	144.25				548	121		174	668	1.0	61	612	1,106	TRANS. TYP. NO. 3 TO TYP. NO. 2
226+28.00	226+40.00	12.00	12.00				37	8		12	25	0.1	4	42	66	TRANS. TYP. NO. 2 TO TYP. NO. 1
SUBTOTAL		2,696.25	2,696.25				11,754	2,577		3,556	12,601	21.1	1,298	12,985	20,618	
						ADDITIONAL SURFACING	784	65	65	416		1.4	45	2,070		
TOTAL		4,390.59	4,390.59	~	~		19,843	4,244	65	6,193	20,382	35.6	2,151	23,131	33,191	

* MEASURED ON CADD

* ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE 1	AGGREGATE tons COMMERCIAL MIX-PG 58V-34	AGGREGATE tons COMMERCIAL PLANT MIX - MISC	AGGREGATE cu. yards CRUSHED AGG. COURSE	AGGREGATE cu. yards SPECIAL BORROW NEAT LINE	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	sq. yards AGG. TREAT.	sq. yards STABILIZATION GEOTEXTILE	REMARKS
						1- PUBLIC APPROACHES	417	65		266		0.7	22	1,330		SEE APPROACHES FRAME
						1 - PRIVATE APPROACHES	339		52	117		0.6	18	584		SEE APPROACHES FRAME
						1 - FARM FIELD APPROACHES			7	26			2	128		SEE APPROACHES FRAME
219+67.00	221+19.00					MAILBOX TURNOUT LT	28		6	7		0.1	3	28		
TOTAL		~	~	~	~		784	65	65	416	~	1.4	45	2,070	~	

* MEASURED ON CADD

SHEET NO. 7

SUMMARIES

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
A. BOSE	07/2024	J. BROTZLER	07/2024	T. JOHNSON	04/2024

9422000RDSUM001_NEW.DWG

MONTANA Department of Transportation

ROAD PLANS

11/20/2024 1:42 PM

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

SUMMARY

GRADING

STATION	cu. yards UNCL. EXC.	cu. yards EXCESS EXC.	cu. yards EMB.+	REMARKS
24+50.00				
	9,678		19,364	SITE 1
41+44.34				
199+43.75				
	34,880		11,353	SITE 2
226+40.00				
TOTAL	44,558	# 13,841	# 30,717	

FOR INFORMATION ONLY

ADDITIONAL GRADING

STATION FROM	STATION TO	cu. yards INCL. IN ROADWAY UNCL. EXC.	cu. yards INCL. IN ROADWAY EMB.+	cu. yards ADD. UNCL. EXC.	REMARKS
SITE 1					
24+50.00	41+44.34		4,015		TOPSOIL REPLACEMENT (INCL. APP.)
27+70.00		45	6,495		PUBLIC APP. RT. - DIVIDE RD.
34+24.00			10		DITCH BLOCK LT.
SITE 2					
199+43.75	226+40.00		5,705		TOPSOIL REPLACEMENT (INCL. APP.)
201+35.00			15		DITCH BLOCK LT.
220+48.00		15	345		PRIVATE APP. RT. - BOYCE RANCH
220+48.00		15	170		FARM FIELD APP. LT. - BOYCE RANCH FARM
TOTAL		~	~	~	

SUBEXCAVATION

STATION FROM	STATION TO	cubic yards INCL. IN GRADING FRAME UNCL. EXC.	REMARKS
SITE 1			
24+50.00	24+62.00	22	
24+62.00	26+06.25	565	
26+06.25	26+50.19	185	
26+50.19	28+66.19	569	
28+66.19	37+72.09	348	
37+72.09	39+88.09	537	
39+88.09	41+32.34	481	
41+32.34	41+44.34	21	
SUBTOTAL		2,728	
SITE 2			
199+43.75	199+55.75	21	
199+55.75	201+00.00	547	
201+00.00	203+16.00	807	
203+16.00	222+09.97	5,307	
222+09.97	224+25.97	886	
224+25.97	224+83.75	122	
224+83.75	226+28.00	594	
226+28.00	226+40.00	25	
SUBTOTAL		8,309	
TOTAL		# 11,037	

FOR INFORMATION ONLY

TOPSOIL & SEEDING

STATION FROM	STATION TO	cu. yards TOPSOIL SALVAGING & PLACING	acres SEED NO. 1	SEED NO. 2	SEED NO.3	FERTILIZER NO. 1	FERTILIZER NO. 2	#CONDITION SEEDBED	MULCH - COMPOST	REMARKS
24+50.00	41+44.34	3,345	3.7	1.4	1.2	3.7	1.4	4.9	1.4	SITE 1, INCL. MAINLINE & APP.
199+43.75	226+40.00	4,756	5.2	2.1	1.7	5.2	2.1	6.9	2.1	SITE 2, INCL. MAINLINE & APP
TOTAL		8,101	8.9	3.5	2.9	8.9	3.5	~	3.5	

#FOR INFORMATION ONLY

SHEET NO. 8

SUMMARIES

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT

COUNTY: FERGUS COUNTY

PROJECT ID: HSIP-NH 57-3(66)94

UPN: 9422000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
A. BOSE	07/2024	J. BROTZLER	07/2024	T. JOHNSON	04/2024

MONTANA Department of Transportation

ROAD PLANS

1/15/2025 1:53 PM

9422000RDSUM001_NEW.DWG

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

SUMMARY

CATTLE GUARD

STATION	each CATTLE GUARD LIGHT DUTY 24 ft	each CATTLE GUARD HEAVY DUTY 24 ft	each REMOVE CATTLE GUARD	REMARKS
2+72 (DIVIDE ROAD)			1	DIVIDE RD. APP.
4+00 (DIVIDE ROAD)		1		DIVIDE RD. APP.
TOTAL	~	1	1	

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	56		56
STRIPING - YELLOW PAINT	gallon	44		44
WORDS & SYMBOLS - WHITE PAINT	gallon	2		2
STRIPING - WHITE EPOXY	gallon		37	37
STRIPING - YELLOW EPOXY	gallon		29	29
WORDS & SYMBOLS - WHITE EPOXY	gallon		1	1
TEMPORARY STRIPING	linear feet			4,391
FINAL SWEEP AND BROOM	course mile			0.8

BASED ON 2 APPLICATIONS

RUMBLE STRIPS

STATION FROM	STATION TO	miles RUMBLE STRIPS CONTINUOUS	miles RUMBLE STRIPS INTERMITTENT	miles RUMBLE STRIPS CENTERLINE TYPE 3	gals EMULSIFIED ASPHALT FOG SEAL #	REMARKS
24+50.00	41+44.34		0.6	0.3	106	SITE 1 LT. & RT.
199+43.75	226+40.00		1.0	0.5	176	SITE 2 LT. & RT.
SUBTOTAL		0.0	1.6	0.8	282	
TOTAL		1.6		0.8	~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS

MAILBOXES

STATION	each MAILBOXES	each RESET MAILBOXES	REMARKS
220+48		1	LT.
TOTAL	~	1	

FENCING

STATION FROM	STATION TO	linear feet FARM FENCE TYPE F5M *	linear feet FARM FENCE TYPE ----	linear feet TEMP. FENCE	each FARM FENCE PANEL SINGLE FW	each FARM FENCE PANEL SINGLE FM	each FARM FENCE PANEL DOUBLE FW	each FARM FENCE PANEL DOUBLE FM	each DEADMAN	linear feet FARM GATE TYPE G2	linear feet FARM GATE TYPE G3	REMARKS
24+06.93	41+50.00	1,743				4		4				LT. MAINLINE
24+34.95	27+00.00	265						3				RT. MAINLINE
1+15.26	4+00.00	285						1				RT. DIVIDE ROAD
+76.07	4+00.00	324				1		2				LT. DIVIDE ROAD
29+16.97	42+25.00	1,308				3		2				RT. MAINLINE
199+00.00	220+42.00	2,142				5		4				LT. MAINLINE
220+42.00	220+54.00									12		LT. MAINLINE
220+54.00	224+50.00	396				1		2				LT. MAINLINE
199+00.00	220+00.00	2,100				5		3				RT. MAINLINE
225+75.00	227+00.00	125						1				RT. MAINLINE
TOTAL		8,688	0	0	0	19	0	22	4	12	0	

SHEET NO. 9

SUMMARIES

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	REVIEWED BY	CHECKED BY
A. BOSE 07/2024	J. BROTZLER 07/2024	T. JOHNSON 04/2024

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MONTANA Department of Transportation

ROAD PLANS

11/20/2024 1:42 PM

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SUMMARY

CULVERTS (INCLUDED IN CULVERT SUMMARY RECAP)

STATION	BASIC BID ITEMS			PIPE OPTIONS in			END SECTIONS		cu. yards		sq. yards	linear feet	SKEW ANGLE	CULVERT IN PL. in x ft	REMARKS
	CULVERT PIPE in	linear feet		STEEL - 2 2/3 X 1/2 CORR. CONCRETE ALUMINUM - 2 2/3 x 1/2 CORR.	CLASS OR THK.	COATING *	LEFT	RIGHT	FOUND-ATION MATERIAL	SPECIAL BACKFILL #	GEOTEXT. STAB.	HEIGHT OF COVER			
		LENGTH OF PIPE	REMOVE PIPE CULVERT												
33+94	36	112		36 CSP 36 RCP	0.064 CL. 2	Yes	FETS FETS	FETS FETS	52	236	181	2.7			DRAIN - SEE DETAIL
34+00			60.0											18 x 60 CMP	REMOVE
201+49			100.0											24 x 100 CMP	REMOVE
201+65	24	104		24 CSP 24 CAP	0.064 0.060	Yes	FETS FETS	FETS FETS				2.5			DRAIN
210+68			63.0											18 x 63 CMP	REMOVE
223+67			65.0											30 x 65 CMP	REMOVE
225+50	30	86		30 RCP	CL. 3	Yes	FETS	FETS	35	11	122	1.0			DRAIN
TOTAL	~	~	288.0	~	~	~	~	~	~	~	~	~	~	~	

* SEE STANDARD SPEC. SEC. 709.05
\# MEASURED ON CADD

APPROACH PIPE (INCLUDED IN CULVERT SUMMARY RECAP)

STATION	BASIC BID ITEMS			PIPE OPTIONS in				END SECTIONS		linear feet	SKEW ANGLE	CULVERT IN PL. in x ft	REMARKS
	CULVERT PIPE in	linear feet		STEEL - 2 2/3 x 1/2 CORR. 0.064 THK.	CONCRETE - CLASS 3	ALUMINUM - 2 2/3 x 1/2 CORR. 0.060 THK.	CORRU-GATED POLY-ETHYLENE PIPE	LEFT	RIGHT	HEIGHT OF COVER			
		LENGTH OF PIPE	REMOVE PIPE CULVERT										
1+15	24	50		24	24	24	24	FETS	FETS	2.4			SEE BOYCE RANCH APPROACH DETAIL
1+34			65.0									18 x 65 CMP	SEE BOYCE RANCH APPROACH DETAIL
TOTAL	~	~	65.0	~	~	~	~	~	~	~	~	~	

CULVERT SUMMARY RECAP

BASIC BID	linear feet		cu. yards			sq. yards
	NEW PIPE (TOTAL)	REMOVE PIPE CULVERT	FOUND-ATION MATERIAL	GRANULAR BEDDING MATERIAL	SPECIAL BACKFILL	GEOTEXT. STAB.
18" CMP DR		188.0				
24" DR	154	100.0				
30" RCP DR	86	65.0	35	19	11	122
36" DR	112		52	24	236	181
TOTAL	~	353.0	87	~	247	303

RANDOM RIPRAP

STATION		cu. yards		sq. yards		REMARKS
		RANDOM RIPRAP		STABILIZATION GEOTEXTILE	RIPRAP REVEGE-TATION	
FROM	TO	CL. 1	CL. 2			
33+94.00		11.6		17		CULVERT RIPRAP OUTLET RT. - SEE HYDRAULIC DETAIL
TOTAL		11.6	~	17	~	

SHEET NO. 10

SUMMARIES

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

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MONTANA Department of Transportation

ROAD PLANS

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HYDRAULIC DATA SUMMARY *

SHEET NO. 11

STATION	STREAM NAME (IF NAMED)	DRAINAGE AREA (mi^2)	SIZE/TYPE STRUCTURE ① ② ⑤	DESIGN FLOOD			BASE FLOOD (1%)		OVERTOPPING FLOOD ③ ④			REMARKS (FLOOD OF RECORD, Qp(max), etc.) ⑥
				MAGNITUDE (cfs)	FREQUENCY (%)	H.W. ELEV. (ft)	MAGNITUDE (cfs)	H.W. ELEV. (ft)	MAGNITUDE (cfs)	APPROX. FREQUENCY (%)	H.W. ELEV. (ft)	
33+94	-	0.029	36" x 112' CSP	19	2	4172.09	22	4172.26	21	1.4	4172.20	O.T. Ditch @ 34+24 LT
225+50	-	0.045	30" x 86' RCP	22	2	4022.93	27	4023.23	36	<1.0	4024.10	Overtopping flow was extrapolated, O.T. Ditch @ 228+61 LT

NOTES:
** H.W. ELEVATIONS SHOWN ARE BASED UPON PEAK FLOW ANALYSIS UNLESS NOTED IN REMARKS COLUMN.*
ADDITIONAL GUIDANCE ON THE HYDRAULIC DATA SUMMARY SHEET CAN BE FOUND IN SECTION 11.8.2 OF THE HYDRAULICS MANUAL.

① *STRUCTURE SIZE OR TYPE AND RELATED HYDRAULIC DATA MAY NOT REFLECT CHANGES MADE DUE TO R/W OR OTHER CONSIDERATIONS (I.E. STOCKPASS ADDED, STRUCTURE SIZE OR TYPE CHANGED, ROAD GRADE CHANGED DURING CONSTRUCTION, ETC.)*

② *BRIDGE TOP LENGTH AND NUMBER OF SPANS OR BASE BID CULVERT SIZE AND SHAPE.*

③ *OVERTOPPING IS DEFINED AS FLOW OVER THE ROAD, FLOW THROUGH A SIGNIFICANT RELIEF STRUCTURE OR FLOW OVER THE BASIN DIVIDE WHICHEVER IS LOWER.*

④ *FOR THOSE CROSSINGS NOTED BY Qp(max) IN THE REMARKS COLUMN, OVERTOPPING DOES NOT OCCUR THROUGH THE Qp(max) EVENT. Qp(max) IS THE 200 YEAR EVENT FOR CULVERTS AND THE 500 YEAR EVENT FOR BRIDGES.*

⑤ *HIGH WATER ELEVATIONS MAY VARY SLIGHTLY DEPENDING UPON THE PIPE OPTION SELECTED.*

⑥ *NOTE ANY CULVERTS THAT WERE SIZED USING THE HEADWATER EXCEPTION PROCEDURE PER SECTION 11.3.1.3.2 OF THE HYDRAULICS MANUAL. (FORMERLY CALLED PM10.)*

EXCEEDANCE PROBABILITY

25 YEAR	4% CHANCE
50 YEAR	2% CHANCE
100 YEAR	1% CHANCE
200 YEAR	0.5% CHANCE
500 YEAR	0.2% CHANCE

HYDRAULIC DATA SUMMARY

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024		
REVIEWED BY	J. BROTZLER	07/2024		
CHECKED BY	T. JOHNSON	04/2024		

MONTANA Department of Transportation

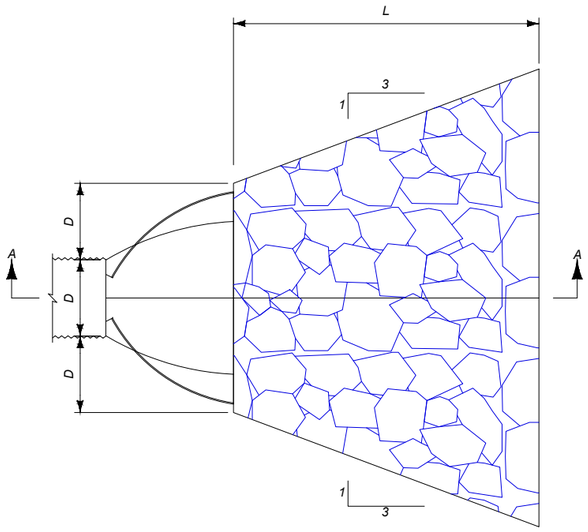
ROAD PLANS

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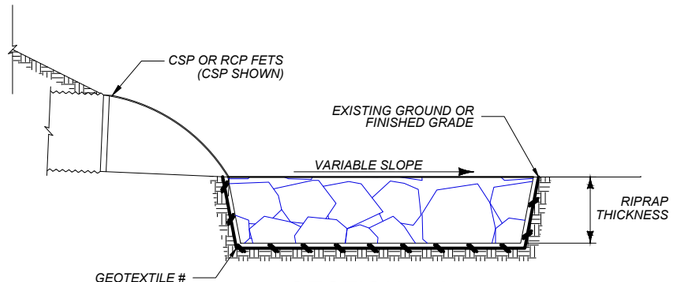
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AWARD COPY



PLAN VIEW

NO SCALE



SECTION A-A

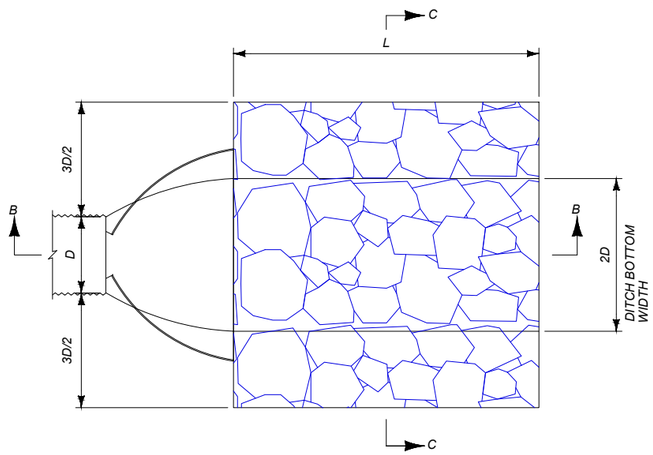
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CULVERT OUTLET RIPRAP WITHOUT DITCH

CULVERT OUTLET RIPRAP WITHOUT DITCH - DIMENSIONS AND ESTIMATED QUANTITIES

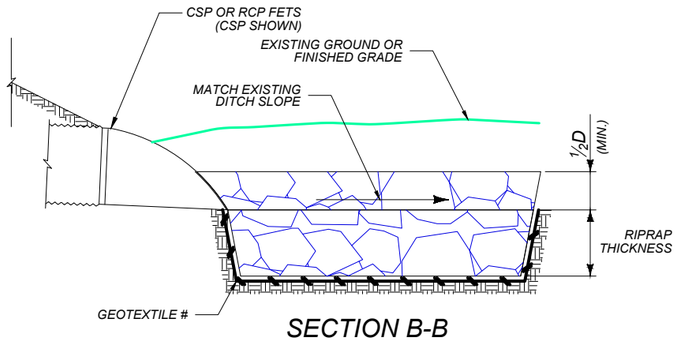
	CLASS I RIPRAP (2' THICK)			CLASS II RIPRAP (2.5' THICK)		
CULVERT DIA. OR SPAN D (in.)	LENGTH OF APRON L (ft.)	Class I Riprap (yd³)	Geotextile # (yd²)	LENGTH OF APRON L (ft.)	Class II Riprap (yd³)	Geotextile # (yd²)
12	4	1.3	2	6	2.8	3
18	6	2.9	4	9	6.3	8
21	7	3.9	6	11	9.1	11
22	8	4.8	7	11	9.3	11
24	8	5.1	8	12	11.1	13
26	9	6.3	10	13	13.0	16
28	10	7.7	11	14	15.1	18
28½	10	7.7	12	15	16.8	20
30	10	8.0	12	15	17.4	21
35	12	11.3	17	18	24.6	30
36	12	11.6	17	18	25.0	30
36¼	13	12.9	19	19	27.1	33
42	14	15.7	24	21	34.0	41
43¾	15	17.7	27	22	37.2	45
48	16	20.5	31	24	44.4	53
49	17	22.6	34	25	47.6	57
51⅛	18	25.0	38	26	51.6	62
53	18	25.7	39	27	55.6	67
57	19	29.0	43	29	64.2	77
58½	20	31.5	47	30	68.4	82

GEOTEXTILE STABILIZATION



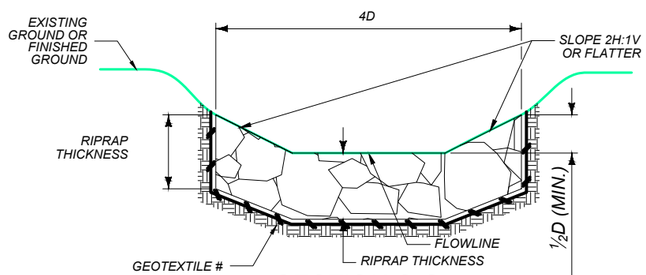
PLAN VIEW

NO SCALE



SECTION B-B

NO SCALE



SECTION C-C

NO SCALE

CULVERT OUTLET RIPRAP WITH DITCH

CULVERT OUTLET RIPRAP WITH DITCH - DIMENSIONS AND ESTIMATED QUANTITIES

	CLASS I RIPRAP (2' THICK)			CLASS II RIPRAP (2.5' THICK)		
CULVERT DIA. OR SPAN D (in.)	LENGTH OF APRON L (ft.)	Class I Riprap (yd³)	Geotextile # (yd²)	LENGTH OF APRON L (ft.)	Class II Riprap (yd³)	Geotextile # (yd²)
12	4	1.2	2	6	2.2	3
18	6	2.7	4	9	5.0	6
21	7	3.6	6	11	7.1	9
22	8	4.3	7	11	7.5	9
24	8	4.7	8	12	8.9	11
26	9	5.8	9	13	10.4	13
28	10	6.9	11	14	12.1	15
28½	10	7.0	11	15	13.2	17
30	10	7.4	12	15	13.9	18
35	12	10.4	16	18	19.4	25
36	12	10.7	17	18	20.0	25
36¼	13	11.6	18	19	21.3	27
42	14	14.5	23	21	27.2	35
43¾	15	16.2	26	22	29.7	38
48	16	19.0	30	24	35.6	45
49	17	20.6	33	25	37.8	48
51⅛	18	22.7	36	26	41.0	52
53	18	23.6	37	27	44.2	56
57	19	26.7	42	29	51.0	65
58½	20	28.9	46	30	54.2	69

GEOTEXTILE STABILIZATION

CULVERT STATION	CULVERT DIA. OR SPAN D (in.)	OUTLET RIPRAP LOCATION (LT or RT)	RIPRAP CLASS	WITH DITCH	WITHOUT DITCH
33+94	36	RT	I	~	X

CULVERT OUTLET RIPRAP FOR CULVERTS WITH FETS (48" EQUIVALENT AND SMALLER) NOT TO SCALE

SHEET NO. 12

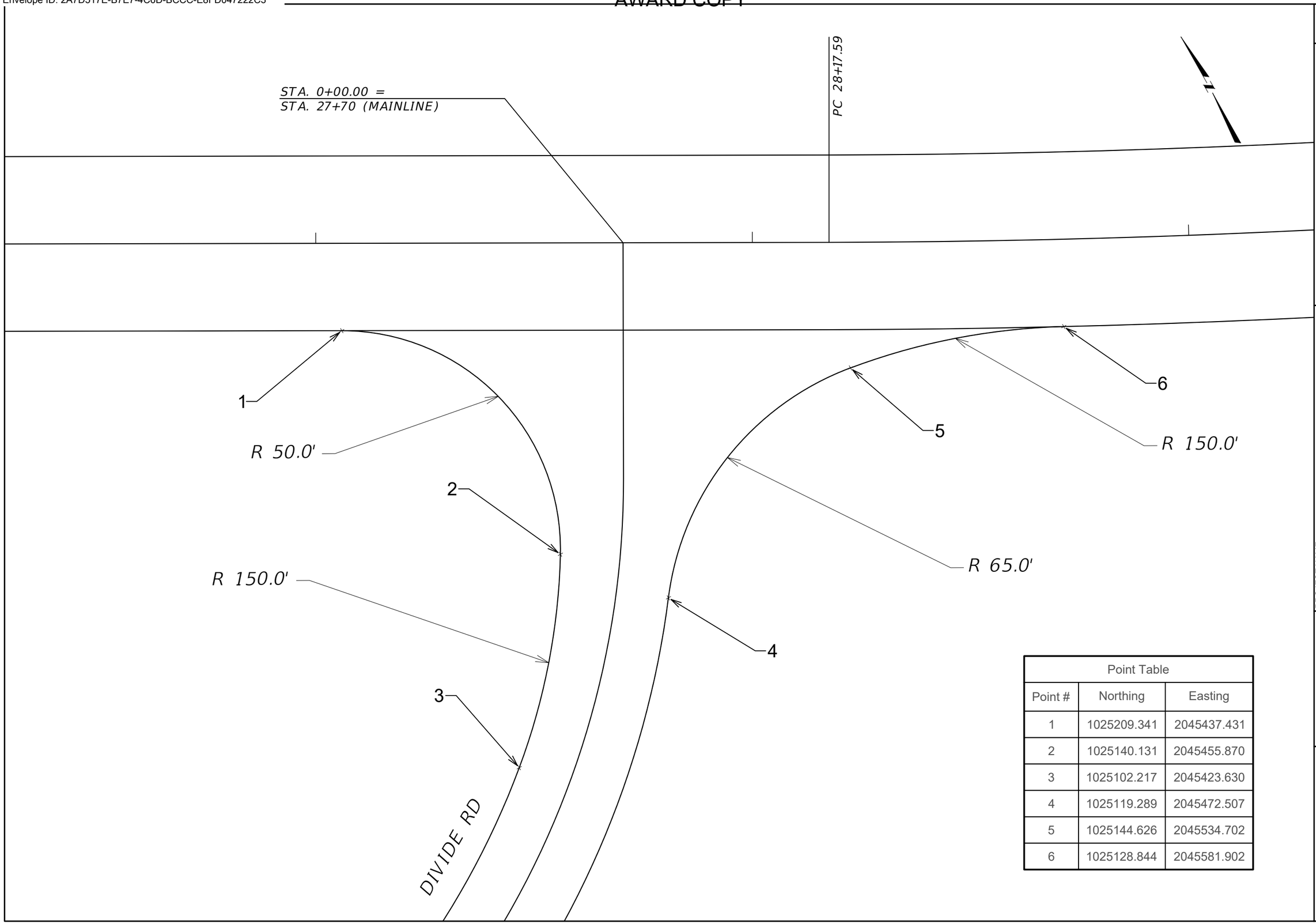
MONTANA Department of Transportation

ROAD PLANS

PROJECT NAME	SF 169 N57 SLDR WID & SLP FLAT		
COUNTY	FERGUS COUNTY		
PROJECT ID	HSIP-NH 57-3(66)94		
UPN	9422000		
DESIGNED BY	A. BOSE	07/2024	
REVIEWED BY	J. BROTZLER	07/2024	
CHECKED BY	T. JOHNSON	04/2024	
9422000HYDET001.DWG			

6/12/2024 6:26 PM

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Point Table		
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2	1025140.131	2045455.870
3	1025102.217	2045423.630
4	1025119.289	2045472.507
5	1025144.626	2045534.702
6	1025128.844	2045581.902

SHEET NO. 13

GEOMETRIC DETAIL - DIVIDE ROAD PUBLIC APP.

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

9422000GEMAP001.DWG

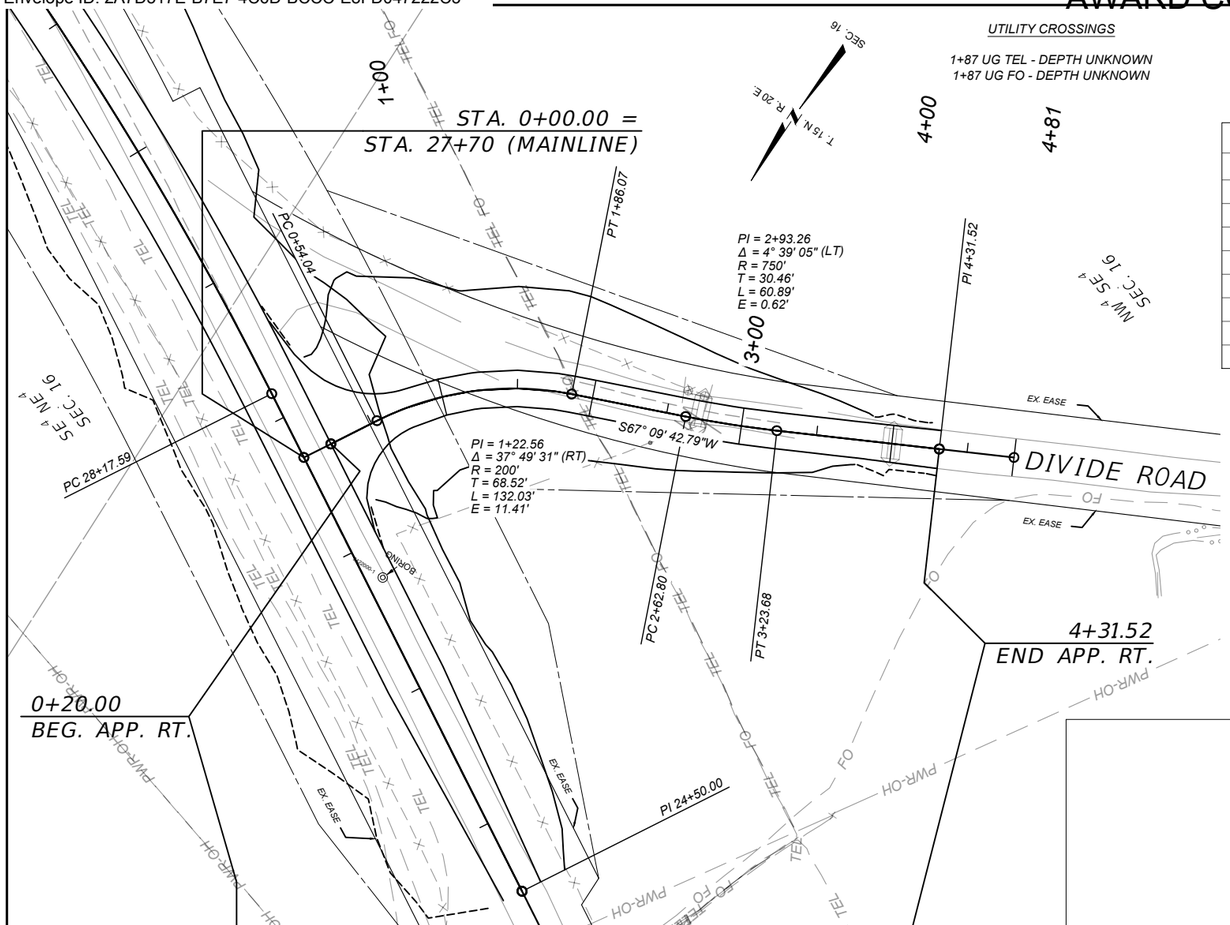
MONTANA Department of Transportation

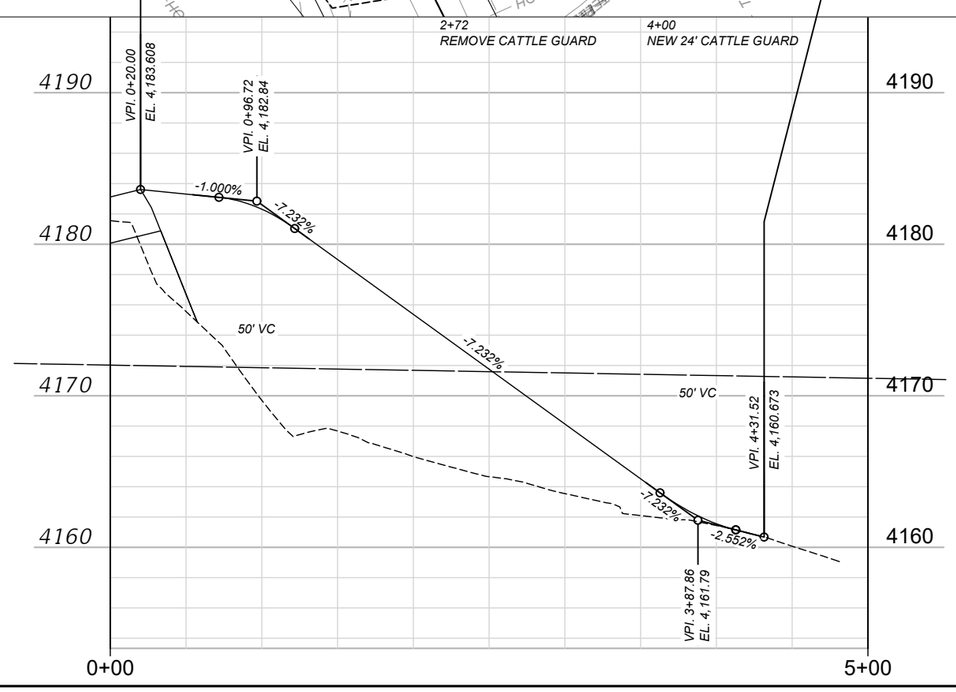
ROAD PLANS

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DIVIDE RD. APPROACH DETAIL





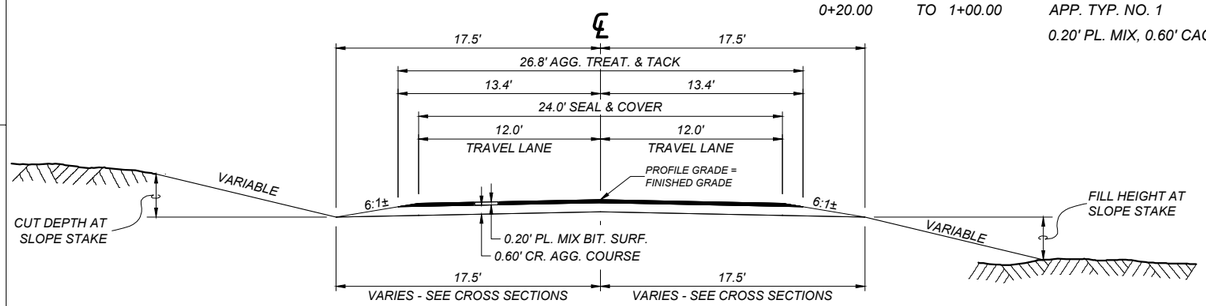
APPROACH ALIGNMENT COORDINATE TABLE - DIVIDE ROAD				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
0+00.00	BOA	1025195.194	2045503.424	
0+20.00	PI	1025177.759	2045493.625	BEGIN DIVIDE RD. APP.
0+54.04	PC	1025148.087	2045476.948	
1+86.07	PT	1025061.754	2045380.223	
2+62.80	PC	1025031.975	2045309.514	
3+23.68	PT	1025006.092	2045254.421	
4+31.52	PI	1024956.316	2045158.759	END DIVIDE RD. APP.
4+81.15	EOA	1024933.410	2045114.737	

APP. TYP. NO. 1 - STA. 27+70 RT

DIVIDE ROAD APPROACH

0+20.00 TO 1+00.00 APP. TYP. NO. 1

0.20' PL. MIX, 0.60' CAC



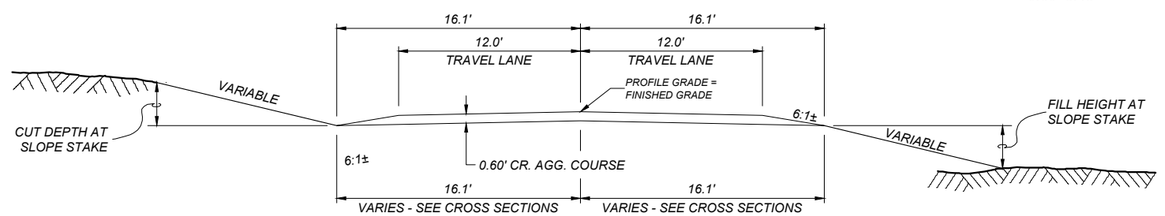
QUANTITIES FROM CAD
SEE ADD. SURF. FRAME

APP. TYP. NO. 2 - STA. 27+70 RT

DIVIDE ROAD APPROACH

1+00.00 TO 4+31.52 APP. TYP. NO. 2

0.60' CAC



QUANTITIES FROM CAD
SEE ADD. SURF. FRAME

SHEET NO. 14

DIVIDE ROAD APPROACH PLAN & PROFILE

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	DATE
A. BOSE	07/2024
REVIEWED BY	DATE
J. BROTZLER	07/2024
CHECKED BY	DATE
T. JOHNSON	04/2024

9422000RDPLP002_NEW.DWG

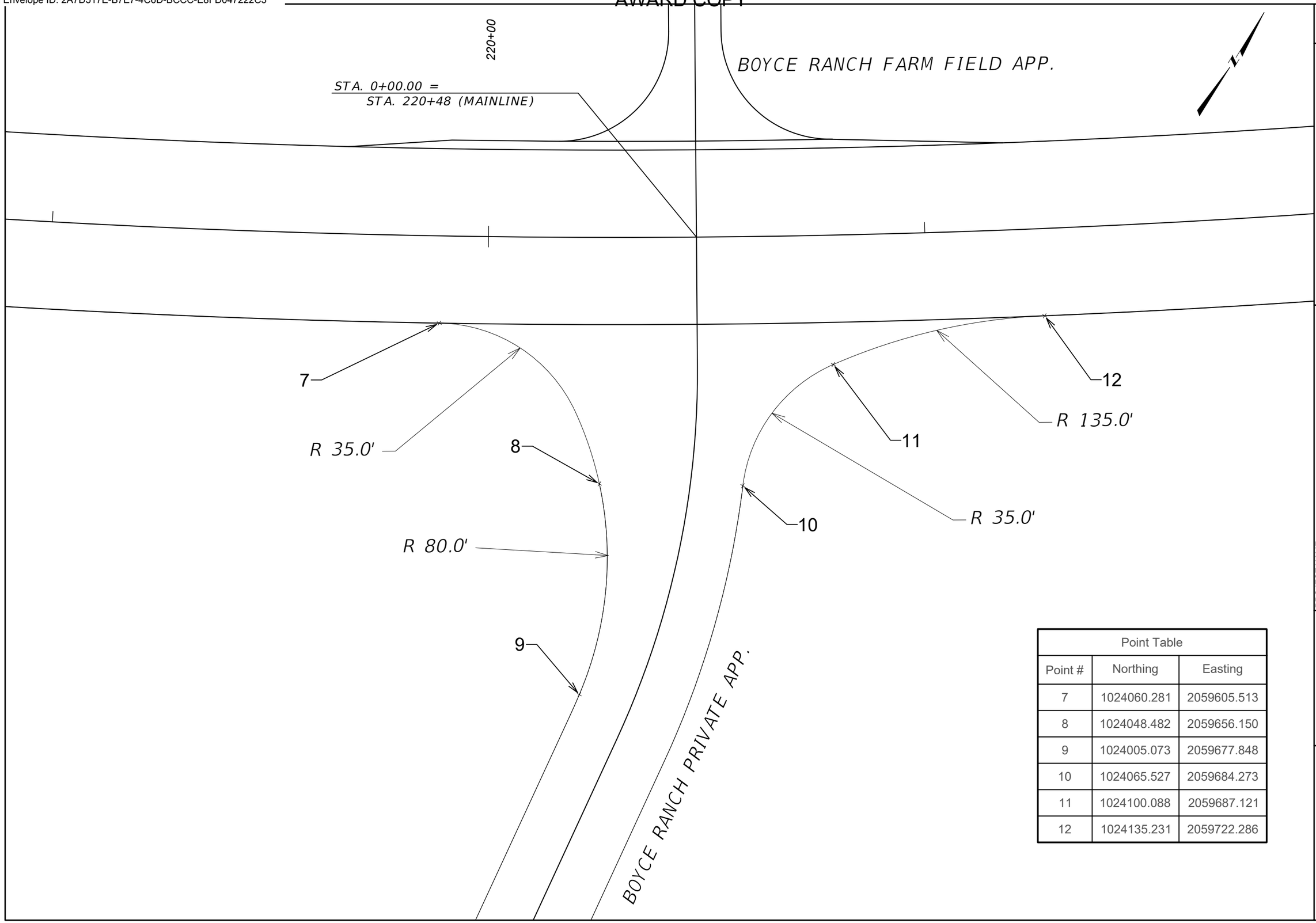
MONTANA Department of Transportation

ROAD PLANS

11/20/2024 12:09 PM

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Point Table		
Point #	Northing	Easting
7	1024060.281	2059605.513
8	1024048.482	2059656.150
9	1024005.073	2059677.848
10	1024065.527	2059684.273
11	1024100.088	2059687.121
12	1024135.231	2059722.286

SHEET NO.
15

GEOMETRIC DETAIL - BOYCE RANCH FARM & PRIVATE APP.

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	DATE
A. BOSE	07/2024
REVIEWED BY	DATE
J. BROTZLER	07/2024
CHECKED BY	DATE
T. JOHNSON	04/2024

9422000GEMAP001.DWG

MONTANA
Department of Transportation

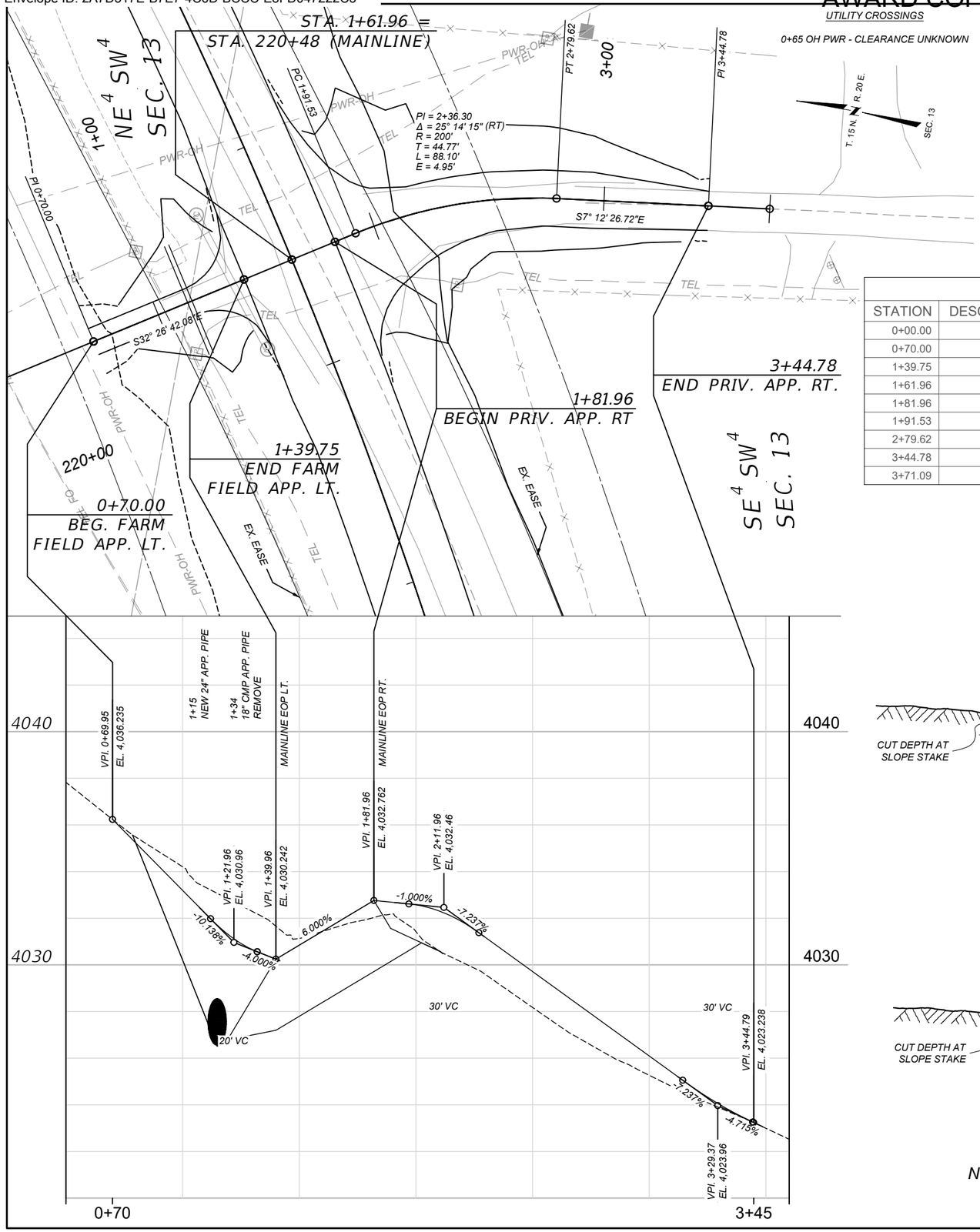
ROAD PLANS

11/20/2024 11:50 AM

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY

BOYCE RANCH APP. DETAIL



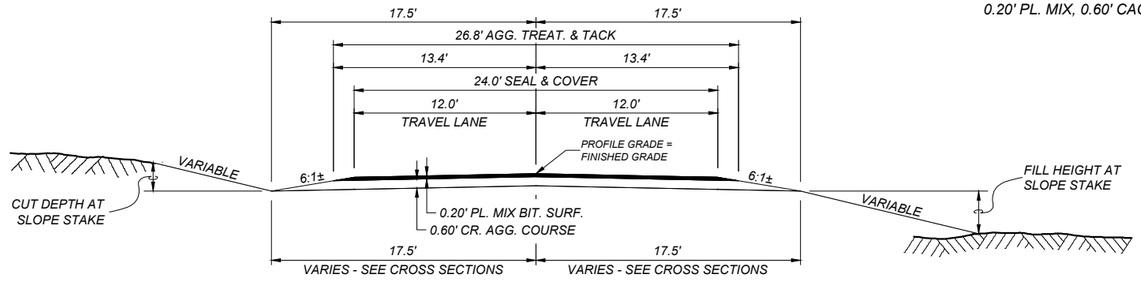
APPROACH CENTERLINE COORDINATE TABLE - BOYCE RANCH APPROACHES				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
0+00.00	BOA	1024244.911	2059558.141	
0+70.00	PI	1024185.838	2059595.696	BEGIN FARM FIELD APP.
1+39.75	PI	1024126.975	2059633.116	END FARM FIELD APP.
1+61.96	PI	1024108.231	2059645.032	
1+81.96	PI	1024091.351	2059655.763	BEGIN BOYCE RANCH PRIV. APP
1+91.53	PC	1024083.281	2059660.893	
2+79.62	PT	1024001.075	2059690.532	
3+44.78	PI	1023936.429	2059698.707	END BOYCE RANCH PRIV. APP.
3+71.09	EOA	1023910.334	2059702.007	

APP. TYP. NO. 1 - STA. 220+48 RT

BOYCE RANCH PRIV. APPROACH

1+81.96 TO 2+50.00 APP. TYP. NO. 1

0.20' PL. MIX, 0.60' CAC



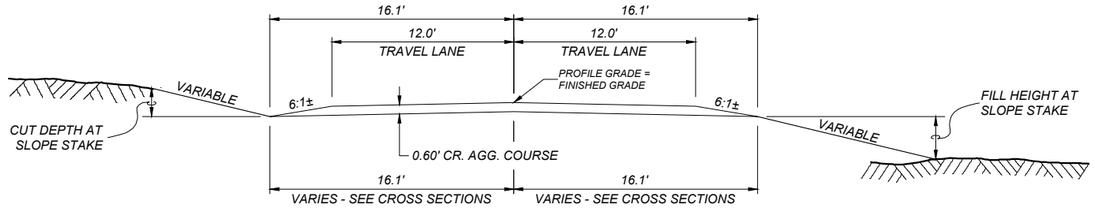
QUANTITIES FROM CAD
SEE ADD. SURF. FRAME

APP. TYP. NO. 2 - STA. 220+48 RT

BOYCE RANCH PRIV. APPROACH

2+50.00 TO 3+44.79 APP. TYP. NO. 2

0.60' CAC



QUANTITIES FROM CAD
SEE ADD. SURF. FRAME

NOTE: CONSTRUCT FIELD APP. LT AS TYPICAL 12' WIDE FARM FIELD APP. SECTION

SHEET NO. 16

BOYCE RANCH APPROACH
PLAN & PROFILE

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

9422000RDPLP002_NEW.DWG

MONTANA
Department of Transportation

ROAD PLANS

11/20/2024 12:09 PM

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UTILITY CROSSINGS

24+12 OH PWR - AERIAL CLEARANCE: 19.8'

SW 4 NE 4 SEC. 16

SE 4 NE 4 SEC. 16

NE 4 SE 4 SEC. 16

NW 4 SW 4 SEC. 15

NW 4 SE 4 SEC. 16

STILLMAN ROAD

DIVIDE ROAD

T. 15 N. R. 20 E. SEC. 16

PI = 33+26.90
Δ = 24° 27' 25" (LT)
R = 2,350'
T = 509.31'
L = 1,003.11'
E = 54.56'

PC 28+17.59

SE 6.00%
DS 60 m/h

DS 60 m/h
SE 6.00%

PT 38+20.69

PI 41+44.34

EOA 44+70.17

24+06.93 R/W 70.80' EX. EASE=R/W PI 24+50.00

25+50.00 R/W 100.00'

40+00.00 R/W 100.00'

41+50.00 R/W 70.15' R/W=EX. EASE.

R/W 24+34.95 49.07' EX. EASE=R/W

R/W 26+00.00 95.00'

R/W 1+15.26 64.07'

0+76.07 R/W 152.70'

R/W 40+25.00 95.00'

R/W 42+25.00 29.84' R/W=EX. EASE.

R/W 4+81.15 28.51' R/W=EX. EASE.

4+00.00 R/W 31.86' R/W=EX. EASE.

EX. EASE

PWR-OH

TEL

FO

S60° 39' 48.00"E

S85° 07' 13.00"E

24+50.00
BEG. SITE 1 - HSIP-NH 57-3(66)94

33+94 NEW 36" DR.

34+00 18" CMP DR. IN PL. REMOVE

41+44.34
END SITE 1 - HSIP-NH 57-3(66)94

27+70
PUBLIC APP. RT.
24' WIDTH

33+94
CULVERT RIPRAP OUTLET RT.
RIPRAP & GEOTEXTILE
SEE DETAIL

34+24
DITCH BLOCK LT.

24+50 - 41+44
SUBEXCAVATION
SEE TYP. SECTIONS

VPI. 24+50.00
EL. 4,185.138

-0.600%

VPI. 33+94.34
EL. 4,179.47

-0.600%

-2.452%

+94
1,500' VC

VPI. 41+44.34
EL. 4,161.081

4220
4210
4200
4190
4180
4170
4160
4150
4140
4130

20+00
25+00
30+00
35+00
40+00
45+00

SHEET NO.
17

PLAN & PROFILE SHEETS
SITE 1

PROJECT NAME SF 169 N57 SLDR WID & SLP FLAT

COUNTY FERGUS COUNTY

PROJECT ID HSIP-NH 57-3(66)94

UPN 9422000

DESIGNED BY	DATE
A. BOSE	07/2024
REVIEWED BY	DATE
J. BROTZLER	07/2024
CHECKED BY	DATE
T. JOHNSON	04/2024

MONTANA
Department of Transportation

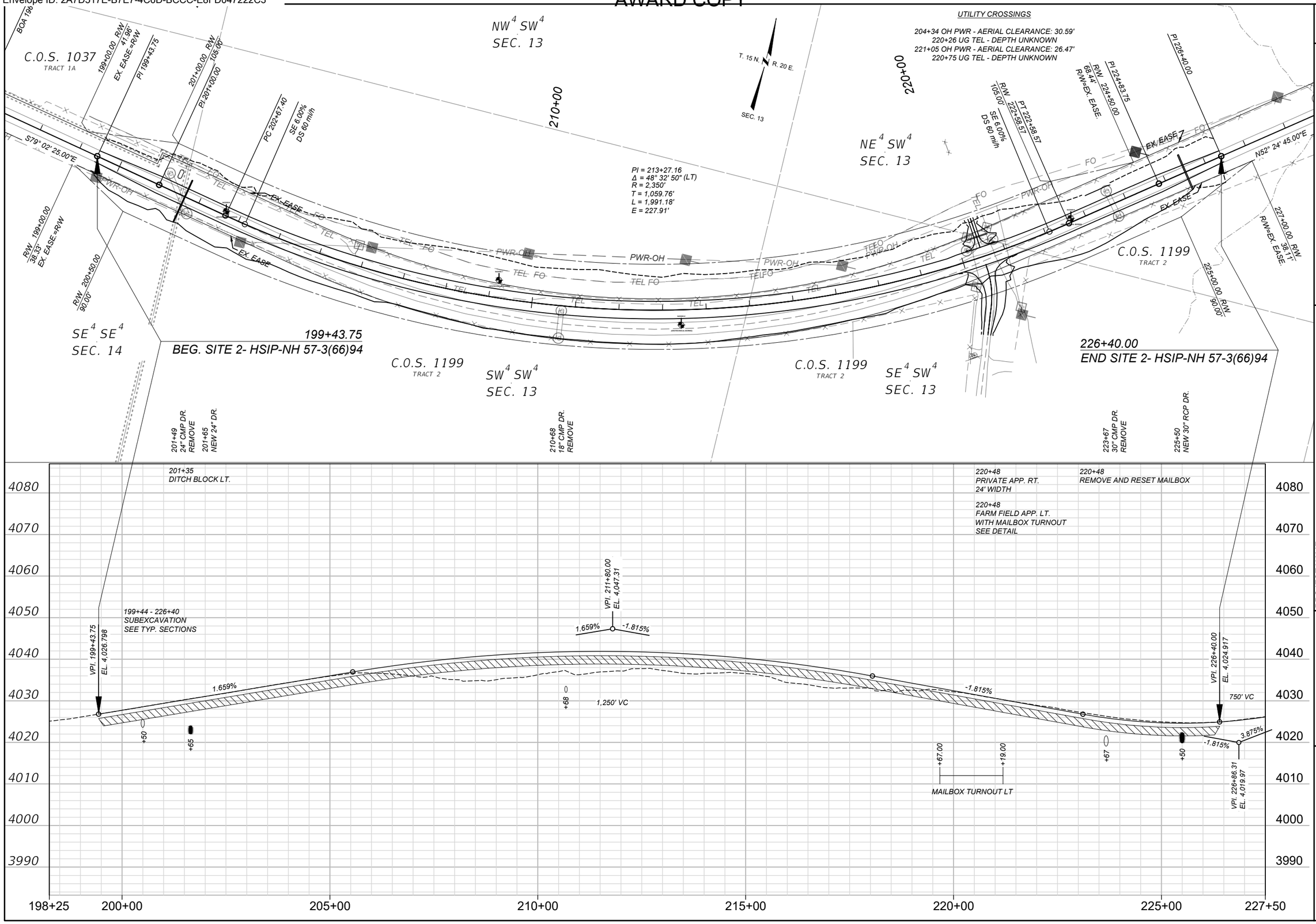
ROAD PLANS

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AWARD COPY



SHEET NO. 18

PLAN & PROFILE SHEETS SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	DATE
A. BOSE	07/2024
REVIEWED BY	DATE
J. BROTZLER	07/2024
CHECKED BY	DATE
T. JOHNSON	04/2024

MONTANA Department of Transportation

ROAD PLANS

9422000RDPLP001_NEW.DWG

11/20/2024 12:09 PM

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

NOTES AND ABBREVIATIONS:

MOUNTING HEIGHT REQUIREMENTS:
MOUNTING HEIGHTS SHOWN REFER TO THE BOTTOM OF THE MAJOR PANEL. SEE DETAILED DRAWINGS 619-00 & 619-08

ALL MARKINGS ARE PAINT, EXCEPT AS NOTED. WHERE SPECIFIED ON THE PLANS AS PLASTIC, INSTALL INLAID HOT EXTRUDED HYDRO-CARBON THERMOPLASTIC PAVEMENT MARKINGS.

SEE LOCATION AND SPECIFICATION SHEETS FOR PORTIONS OF PROJECT NOT INCLUDED WITHIN SIGNING PLAN SHEETS.

SIGN POSTS SYMBOLS SHOWN ARE FOR REFERENCE ONLY TO SHOW EXISTING SIGNS THAT REQUIRE NO ACTION.

SIGNING LOCATIONS ARE APPROXIMATE. ENGINEERING PROJECT MANAGER TO FIELD ADJUST AS NECESSARY.

ADOPT A HIGHWAY:
IF SIGNS N7-1/N7-1P EXIST, CONTRACTOR WILL CONFIRM THAT THE GROUP NAME ON THE SIGN(S) EXISTING AT THE TIME OF CONSTRUCTION CORRESPONDS TO THE GROUP NAME ON THE SIGN(S) SHOWN IN PLANS. IF NAME IS DIFFERENT, ENGINEERING PROJECT MANAGER WILL CONTACT TRAFFIC & SAFETY BUREAU SIGNING SECTION WITH THE CORRECT NAME AND A NEW SIGN DESIGN WILL BE PROVIDED.

✕ = STANDARD BREAKAWAY DEVICE:
- FOR WOOD POST SEE DETAILED DRAWING 619-20.
- FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

▲ = SINGLE SQUARE TUBE REQUIRED. MOUNTED IN HEAVY DUTY STUB.

▮ = FRANGIBLE SIGN POST. BREAKAWAY DEVICE REQUIRED.

BBR = BACKBRACING REQUIRED:
- -FOR WOOD POST 2" X 4" REQ'D.
- - FOR STRUCTURAL STEEL 2" X 2" X 1/4" ANGLE IRON REQ'D.

FY = FLUORESCENT YELLOW SHEETING REQUIRED.

MBB = MOUNT BACK TO BACK

RSFO = REPLACE SIGN FACE ONLY.

SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTALS	UNIT
SIGNS-ALUM REFL SHEET XI	17.9	SQFT
REMOVE SIGN	2	EACH
POLES-TREATED WOOD 5 IN	14	LNFT
DELINEATOR TYPE 1	18	EACH

DELINEATION SPECIFICATIONS

SYMBOL	DESIGN	TOTALS
⊣	A	10
⊩⊣	D	2
⊣	F	6

SHEET NO.
S1

SITE 1 - SUMMARY NOTES AND ABBREVIATIONS

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS
PROJECT ID: HSIP NH-57-3(66)94
UPN: 94220000

DESIGNED BY: S MORANO 10/2023
REVIEWED BY:
CHECKED BY: N STYREN 10/2023

MONTANA Department of Transportation

SIGNING PLANS

7/31/2024 11:39 AM

9422000SIMAP001.DWG

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SIGN LOCATION				SIGN PANEL SPECIFICATIONS										FEET			FEET							SIGN ASSEMBLY QUANTITIES												ADDITIONAL SIGN INFORMATION		
STATION / R.P.		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)	SLOPE	TYPE OF SUPPORT	SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED)			CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE		STEEL POST (LBS.)				BREAKAWAY	REMV		RESET		SIGN TEXT	SIGN IMAGE	REMARKS
LFT	MDN	RGT			W	X	H	BG	LEG												X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE			
US HWY 87/ MT200 EAST (SITE 1)																																						
27+91.00		EB														5" Treated Wood Pole		5.00		3.0	12.4			X		5.8			14.00									{street name}		NEW = (2) D3 HWY 87 EAST
		X		D3-2	42	x	10	XI	XI					6.00																									
				D3-2	42	x	10	XI	XI																	5.8												{street name}		NEW = (2) D3 DIVIDE RD
				R1-1	30	x	30	XI	XI																	6.3												STOP		NEW = R1-1
29+10.45		EB		R1-1 REMOVE		x		XI																											1			STOP		REMOVE = R1-1
		X																																				
29+30.74				D3-2 REMOVE		x		XI																											1			{street name}		REMOVE = (2) D3 HWY 87 EAST & DIVIDE RD
		X																																				
																								TOTALS		17.9			14.0						2.0					

SHEET NO.
S2

SITE 1 - SIGNING LOCATION AND SPECIFICATION

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS
PROJECT ID: HSIP NH-57-3(66)94
UPN: 94220000

DESIGNED BY: S MORANO 10/2023
REVIEWED BY:
CHECKED BY: N STYREN 10/2023

MONTANA Department of Transportation

SIGNING PLANS

7/31/2024 11:39 AM
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SHEET NO.	S3
SITE 1 - PLAN SHEET	
PROJECT NAME	SF 169 N57 SLDR WID & SLP FLAT
COUNTY	FERGUS
PROJECT ID	HSIP NH-57-3(66)94
UPN	94220000
DESIGNED BY	S MORANO 10/2023
REVIEWED BY	
CHECKED BY	N STYREN 10/2023
MONTANA Department of Transportation	
SIGNING PLANS	
7/31/2024 11:39 AM	9422000SIMAP001.DWG

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

NOTES AND ABBREVIATIONS:

MOUNTING HEIGHT REQUIREMENTS:
MOUNTING HEIGHTS SHOWN REFER TO THE BOTTOM OF THE MAJOR PANEL. SEE DETAILED DRAWINGS 619-00 & 619-08

ALL MARKINGS ARE PAINT, EXCEPT AS NOTED. WHERE SPECIFIED ON THE PLANS AS PLASTIC, INSTALL INLAID HOT EXTRUDED HYDRO-CARBON THERMOPLASTIC PAVEMENT MARKINGS.

SEE LOCATION AND SPECIFICATION SHEETS FOR PORTIONS OF PROJECT NOT INCLUDED WITHIN SIGNING PLAN SHEETS.

SIGN POSTS SYMBOLS SHOWN ARE FOR REFERENCE ONLY TO SHOW EXISTING SIGNS THAT REQUIRE NO ACTION.

SIGNING LOCATIONS ARE APPROXIMATE. ENGINEERING PROJECT MANAGER TO FIELD ADJUST AS NECESSARY.

ADOPT A HIGHWAY:
IF SIGNS N7-1/N7-1P EXIST, CONTRACTOR WILL CONFIRM THAT THE GROUP NAME ON THE SIGN(S) EXISTING AT THE TIME OF CONSTRUCTION CORRESPONDS TO THE GROUP NAME ON THE SIGN(S) SHOWN IN PLANS. IF NAME IS DIFFERENT, ENGINEERING PROJECT MANAGER WILL CONTACT TRAFFIC & SAFETY BUREAU SIGNING SECTION WITH THE CORRECT NAME AND A NEW SIGN DESIGN WILL BE PROVIDED.

X = STANDARD BREAKAWAY DEVICE:
- FOR WOOD POST SEE DETAILED DRAWING 619-20.
- FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

▲ = SINGLE SQUARE TUBE REQUIRED. MOUNTED IN HEAVY DUTY STUB.

■ = FRANGIBLE SIGN POST. BREAKAWAY DEVICE REQUIRED.

BBR = BACKBRACING REQUIRED:
- -FOR WOOD POST 2" X 4" REQ'D.
- - FOR STRUCTURAL STEEL 2" X 2" X 1/4" ANGLE IRON REQ'D.

FY = FLUORESCENT YELLOW SHEETING REQUIRED.

MBB = MOUNT BACK TO BACK

RSFO = REPLACE SIGN FACE ONLY.

SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTALS	UNIT
SIGNS-ALUM REFL SHEET XI	18.8	SQFT
REMOVE SIGN	1	EACH
POSTS-STEEL U SIGN	20	LB
POLES-TREATED WOOD 5 IN	18	LNFT
DELINEATOR TYPE 1	24	EACH

DELINEATION SPECIFICATIONS

SYMBOL	DESIGN	TOTALS
⊣	A	12
⊢	F	12

SHEET NO.
S4

SITE 2 - SUMMARY NOTES AND ABBREVIATIONS

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS
PROJECT ID: HSIP 57-3(66)94
UPN: 9422000

DESIGNED BY: S MORANO 10/2023
REVIEWED BY:
CHECKED BY: N STYREN 10/2023

MONTANA Department of Transportation

SIGNING PLANS

9422000SIMAP001.DWG

7/31/2024 11:39 AM

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY

SIGN LOCATION				SIGN PANEL SPECIFICATIONS																																		ADDITIONAL SIGN INFORMATION	
STATION / R.P.		DIRECTON	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			REFLECTIVE SHEETING TYPE		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	DOUBLE FACE SIGN / MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	SLOPE	TYPE OF SUPPORT	FEET						CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE		STEEL POST (LBS.)				BREAKAWAY	REMV		RESET			
LFT	MDN	RGT			W X H		BG	LEG						CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)			SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X Y Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE	SIGN TEXT	REMARKS
US HWY 87/ MT200 EAST (SITE 2)																																						
221+26.19		EB		D10-2	10 X 27		XI	XI						4.00		2.0lb Steel U Post		4.00		3.0	10.0				3.8						20.00		1				MILE MARKER {___}	REPLACE = REF. POST (97)
		X																																				
221+26.19		EB		N7-1	36 X 48		XI	XI						20.00		5" Treated Wood Pole		5.00		3.5	17.2		X		12.0			18.00				X				ADOPT A HIGHWAY	N7-1 = USE AS IS
X																																						
				N7-1P	36 X 12		XI	XI																	3.0											SUPP TO N7-1	REPLACE = N7-1p SEVENTH DAY ADVENTIST
X																																						
																							TOTALS		18.8			18.0			20.0		1.0					

SHEET NO.
S5

SITE 2 - SIGN LOCATION AND SPEIFICATON

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS
PROJECT ID: HSIP 57-3(66)94
UPN: 9422000

DESIGNED BY: S MORANO 10/2023
REVIEWED BY:
CHECKED BY: N STYREN 10/2023

MONTANA Department of Transportation

SIGNING PLANS

7/31/2024 11:39 AM

9422000SIMAP001.DWG

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY

200+00

POT: 199+43.75

STA 199+43.75 HSIP 57-3(65)94
BEGIN SITE 2

PI: 201+00.00

PC: 202+67.40

RADIUS=2350'
160', 320', 400' DELINEATOR
SPACING

N

SHEET NO.
S6

SITE 2 - PLAN SHEET

PROJECT NAME
SF 169 N57 SLDR WID & SLP FLAT

COUNTY
FERGUS

PROJECT ID
HSIP 57-3(66)94

UPN
94220000

DESIGNED BY
S MORANO 10/2023

REVIEWED BY

CHECKED BY
N STYREN 10/2023

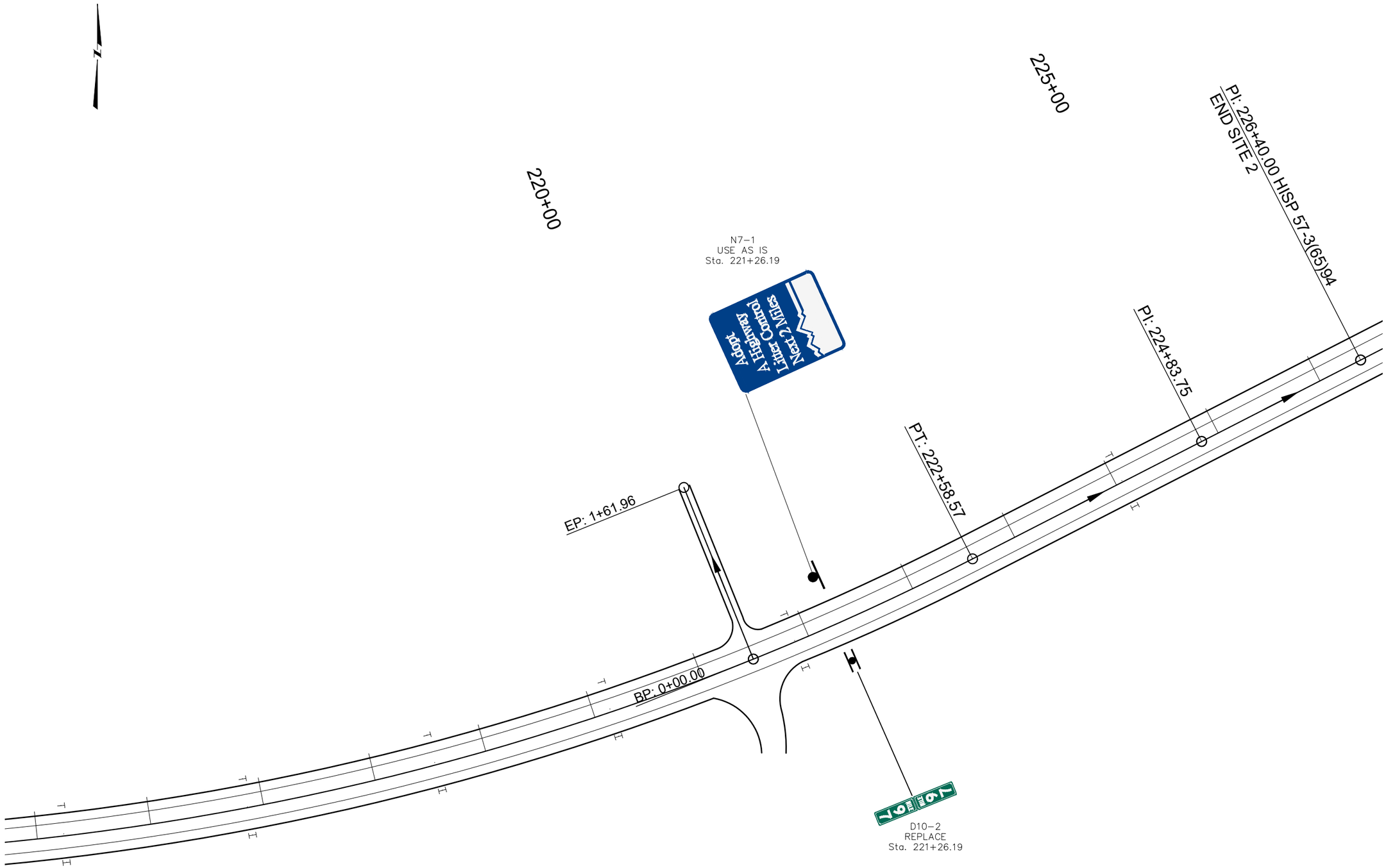
MONTANA
Department of Transportation

SIGNING PLANS

7/31/2024 11:39 AM

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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3



SHEET NO.
S7

SITE 2 - PLAN SHEET

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS**
PROJECT ID: **HSIP 57-3(66)94**
UPN: **94220000**

DESIGNED BY	S MORANO	10/2023
REVIEWED BY		
CHECKED BY	N STYREN	10/2023

MONTANA
Department of Transportation

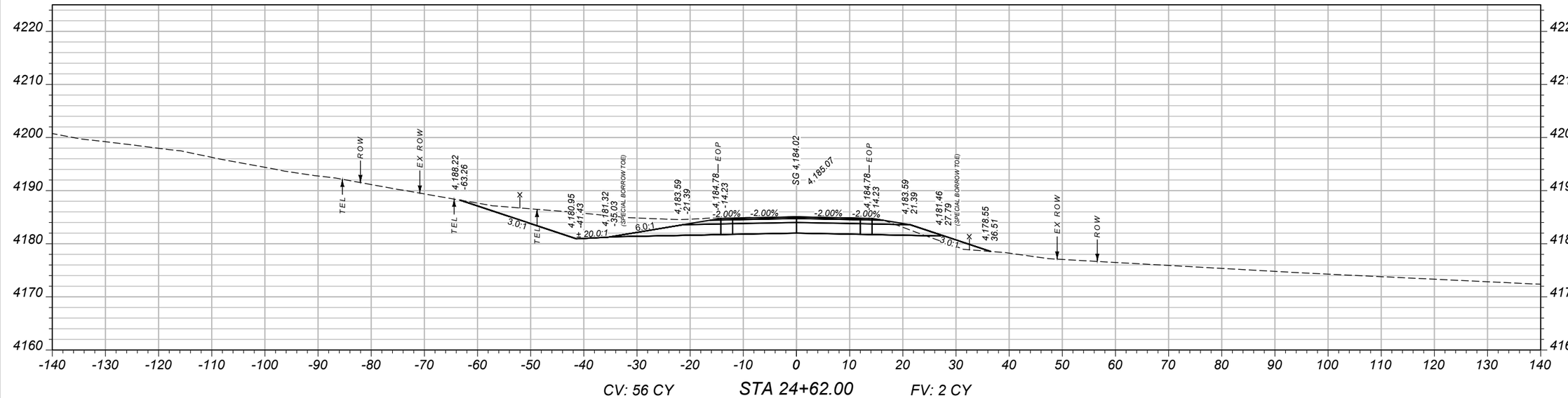
SIGNING PLANS

9422000SIMAP001.DWG

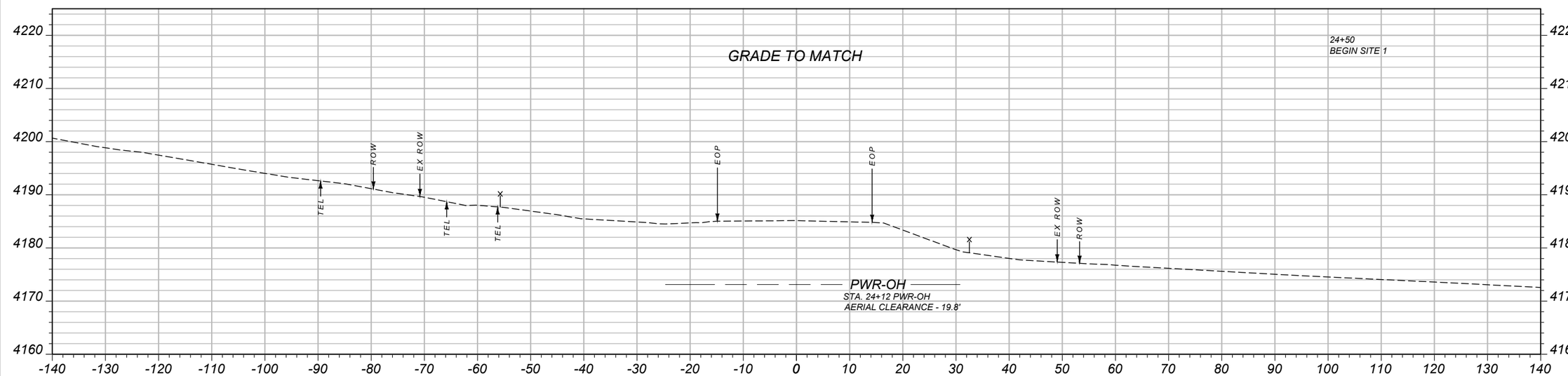
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AWARD COPY



CV: 56 CY STA 24+62.00 FV: 2 CY



CV: 0 CY STA 24+50.00 FV: 0 CY

SHEET NO.
XS1

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY		DATE
A. BOSE		07/2024
REVIEWED BY		
J. BROTZLER		07/2024
CHECKED BY		
T. JOHNSON		04/2024

9422000RDXSF001_NEW.DWG

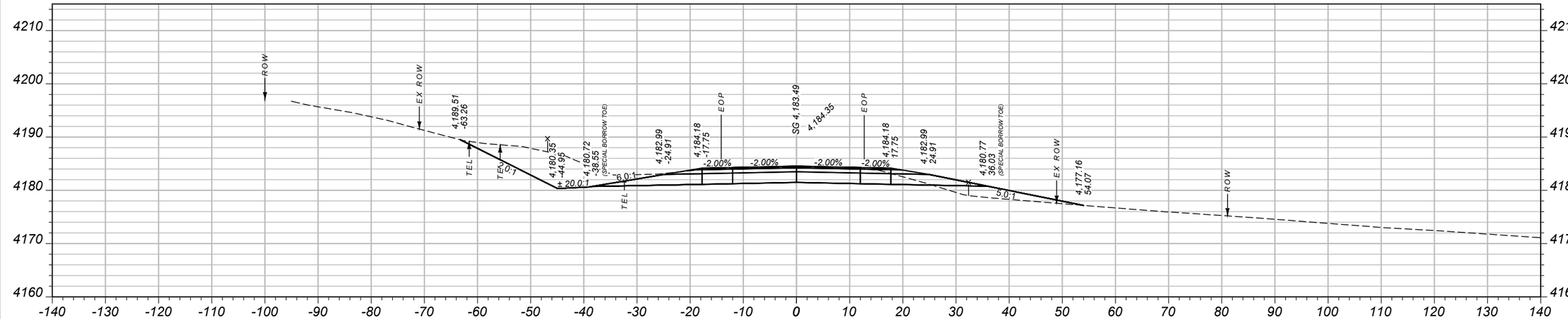
MONTANA Department of Transportation

SITE 1

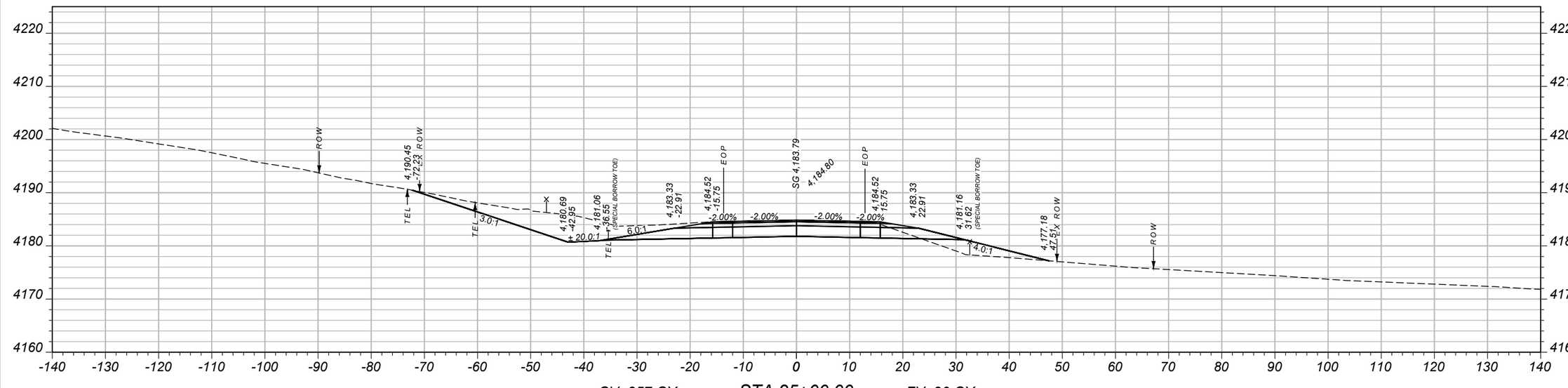
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AWARD COPY



CV: 472 CY STA 25+50.00 FV: 61 CY



CV: 357 CY STA 25+00.00 FV: 30 CY

SHEET NO.
XS2

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

9422000RDXSF001_NEW.DWG

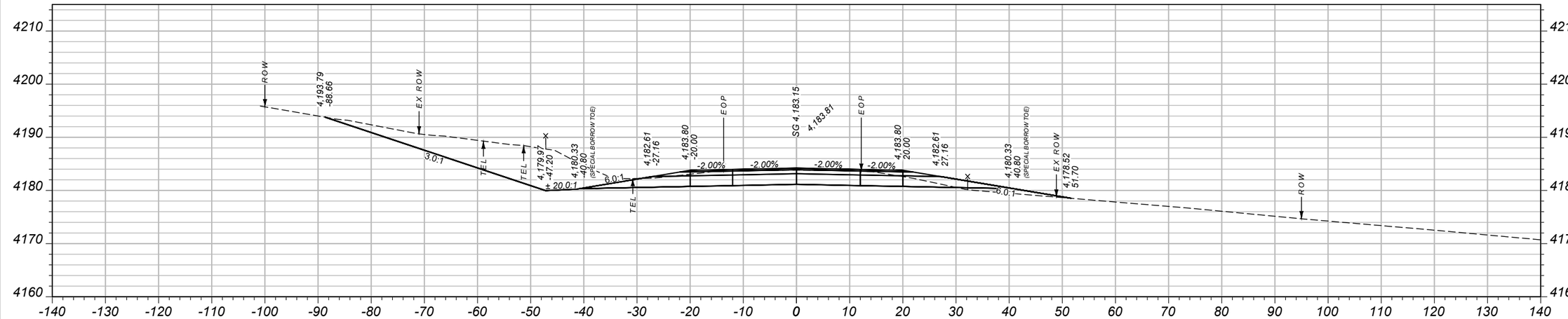
MONTANA Department of Transportation

SITE 1

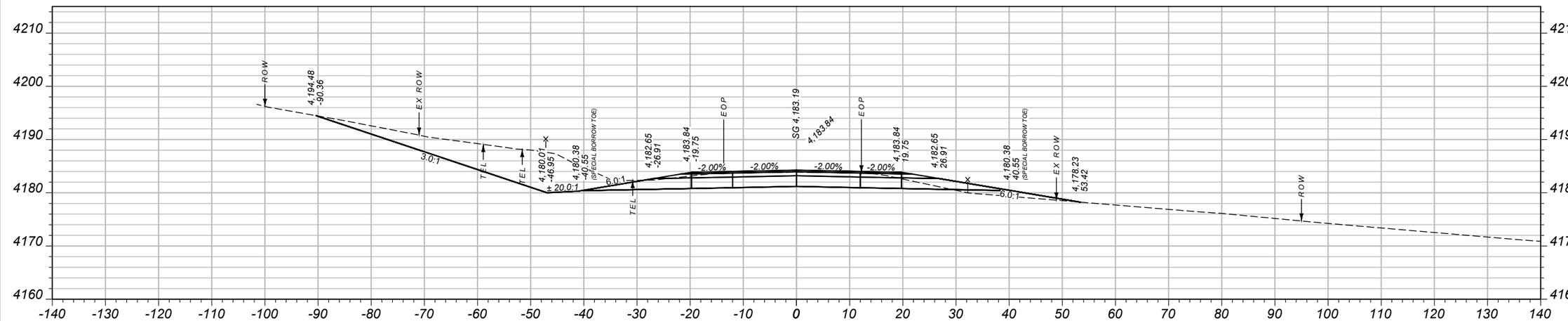
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AWARD COPY



CV: 82 CY STA 26+06.25 FV: 3 CY



CV: 559 CY STA 26+00.00 FV: 44 CY

SHEET NO.
XS3

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	
REVIEWED BY	J. BROTZLER	07/2024	
CHECKED BY	T. JOHNSON	04/2024	

9422000RDXSF001_NEW.DWG

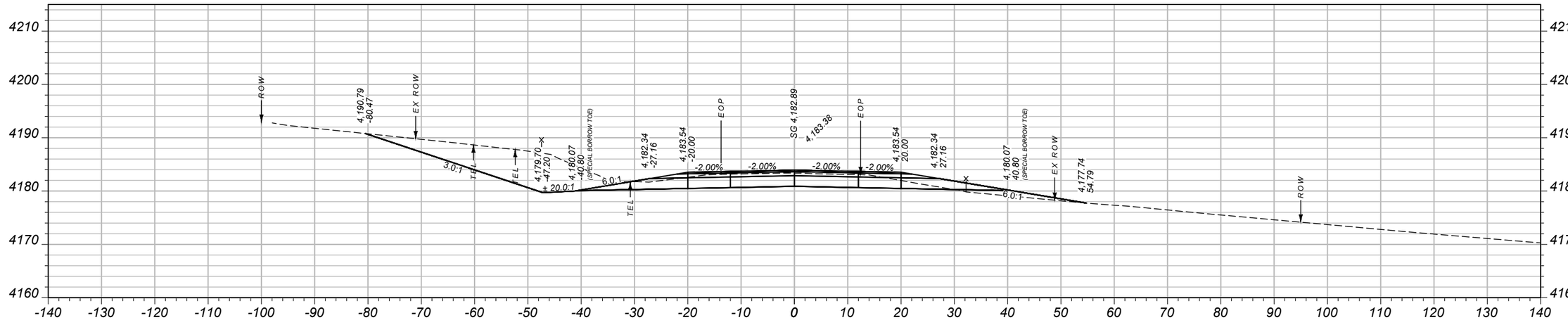
MONTANA
Department of Transportation

SITE 1

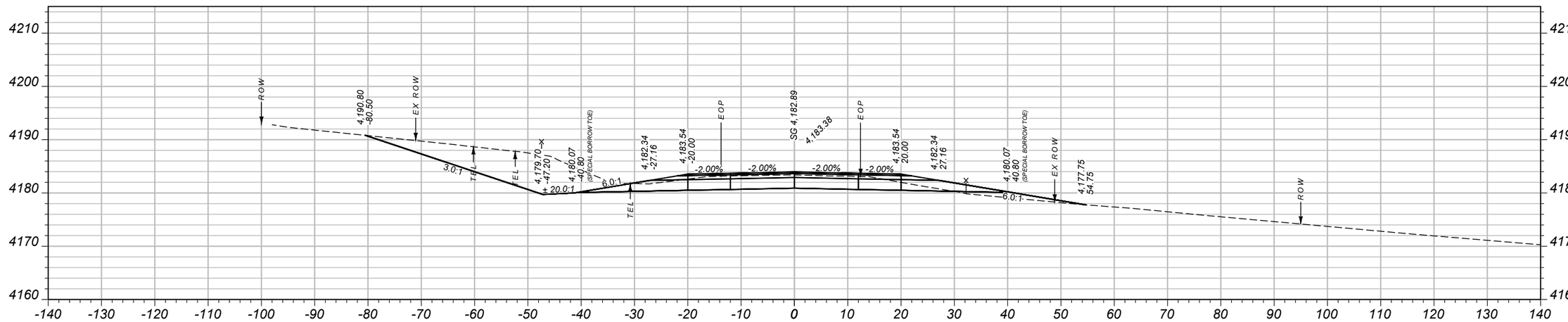
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AWARD COPY



CV: 2 CY STA 26+50.19 FV: 0 CY



CV: 542 CY STA 26+50.00 FV: 20 CY

SHEET NO.
XS4

CROSS SECTIONS - SITE 1

PROJECT NAME SF 169 N57 SLDR WID & SLP FLAT
COUNTY FERGUS COUNTY
PROJECT ID HSIP-NH 57-3(66)94
UPN 9422000

DESIGNED BY		DATE
A. BOSE		07/2024
REVIEWED BY		DATE
J. BROTZLER		07/2024
CHECKED BY		DATE
T. JOHNSON		04/2024

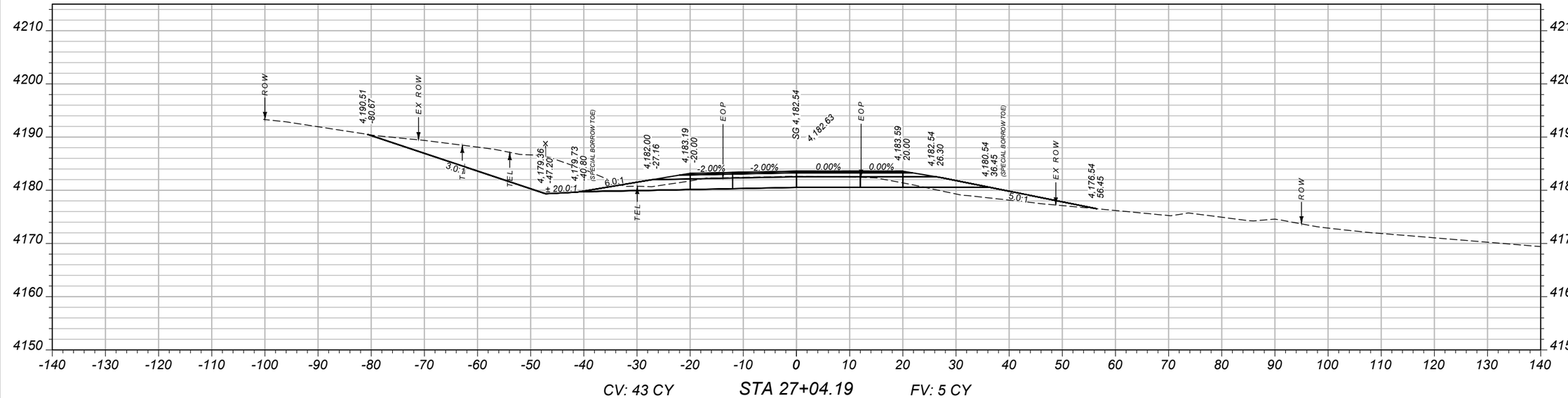
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MONTANA
Department of Transportation

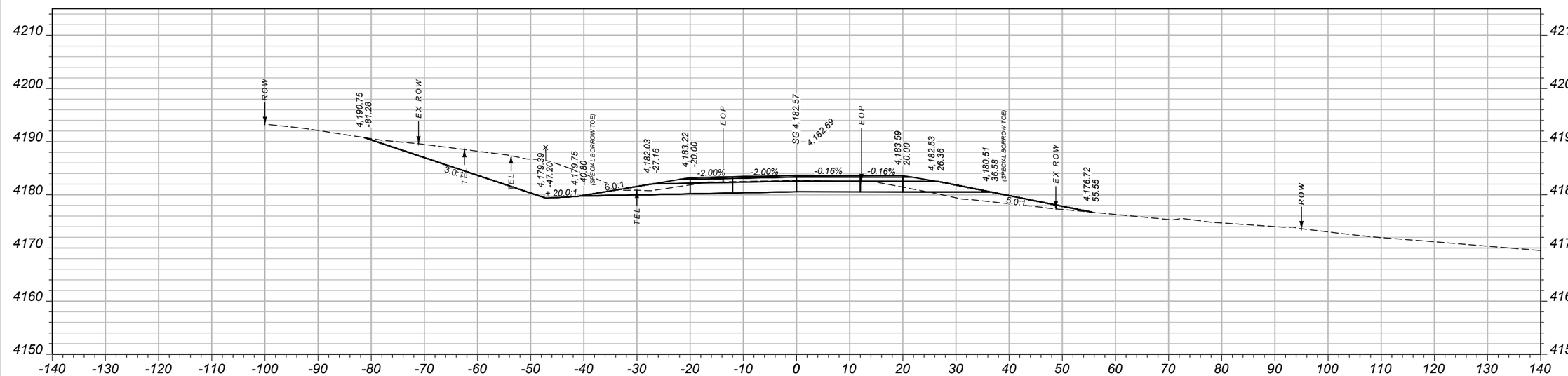
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CV: 43 CY STA 27+04.19 FV: 5 CY



CV: 543 CY STA 27+00.00 FV: 41 CY

SHEET NO.
XS5

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

9422000RDXSF001_NEW.DWG

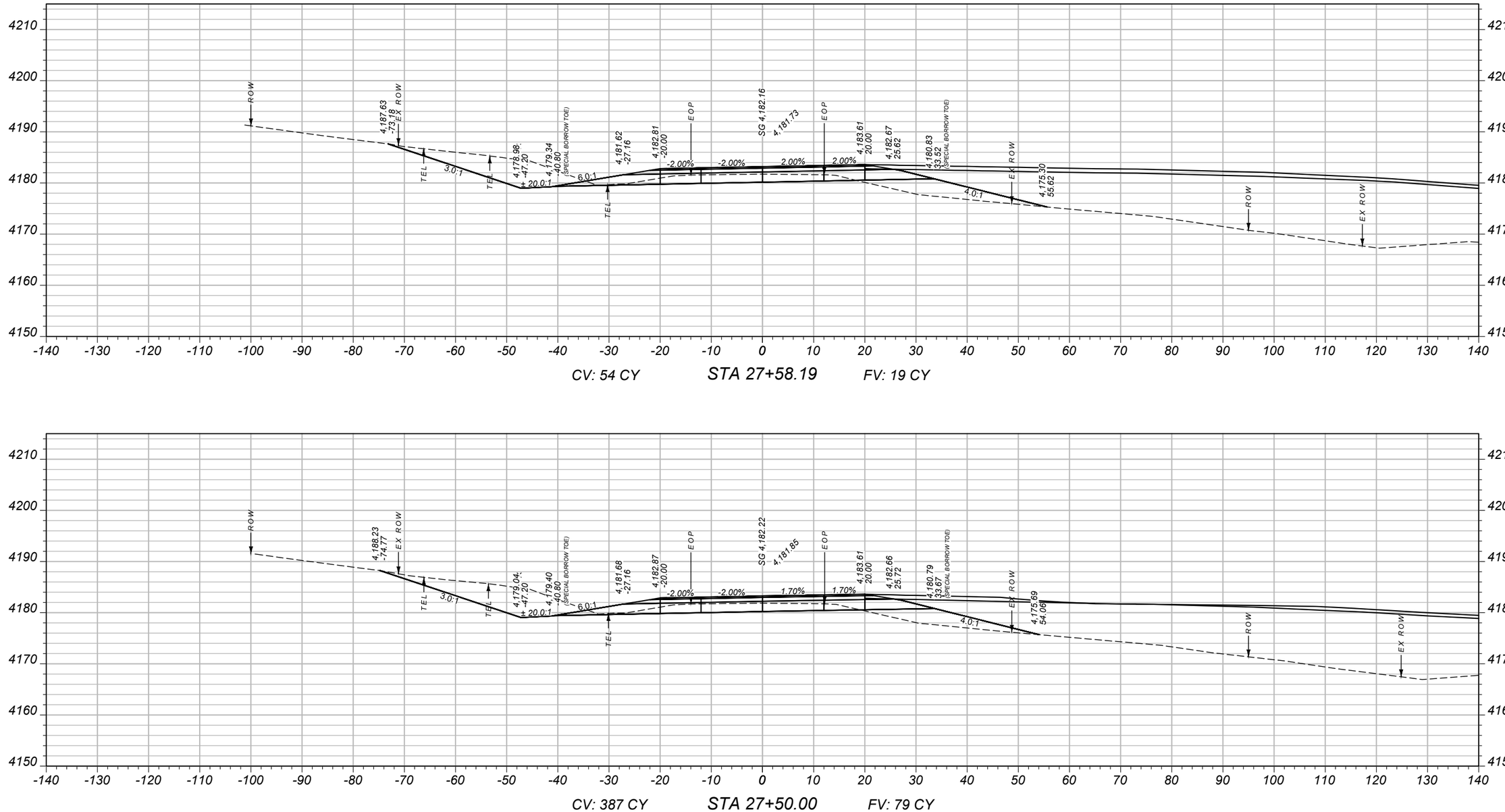
MONTANA Department of Transportation

SITE 1

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AWARD COPY



SHEET NO.
XS6

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	
REVIEWED BY	J. BROTZLER	07/2024	
CHECKED BY	T. JOHNSON	04/2024	

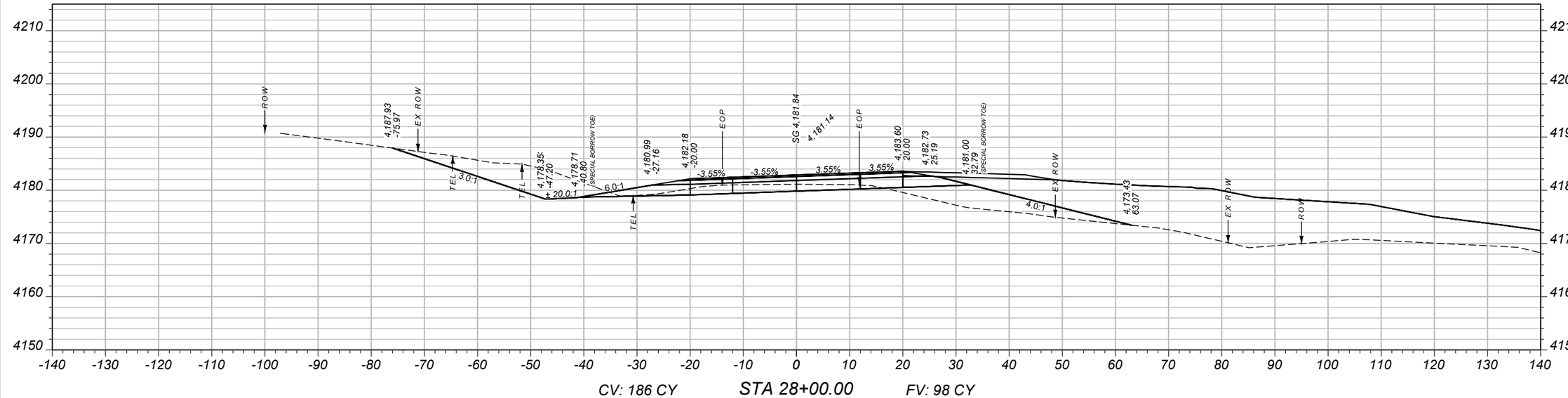
MONTANA
Department of Transportation

SITE 1

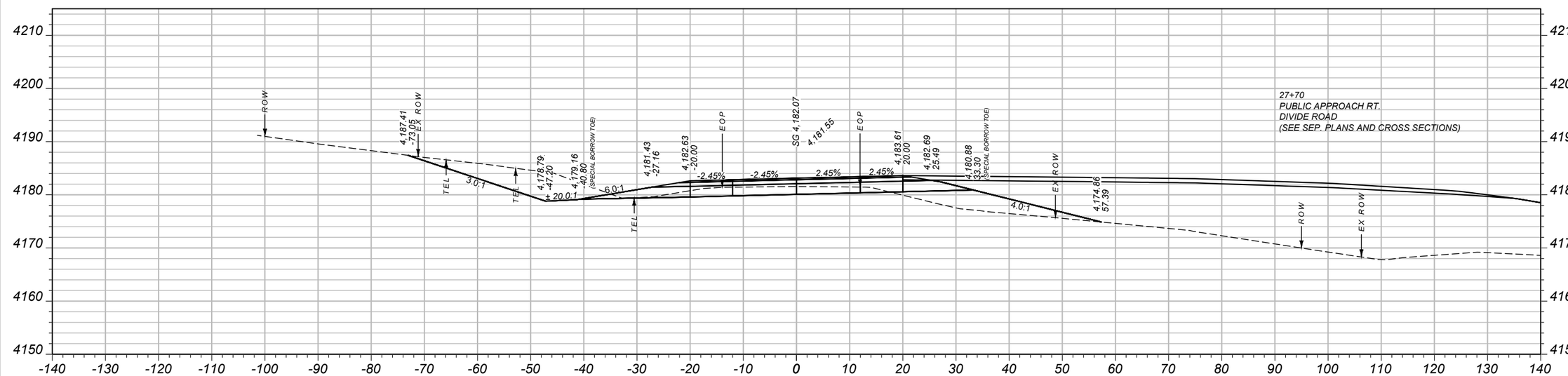
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9422000RDXSF001_NEW.DWG

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3



CV: 186 CY STA 28+00.00 FV: 98 CY



CV: 77 CY STA 27+70.39 FV: 33 CY

SHEET NO.
XS7

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

9422000RDXSF001_NEW.DWG

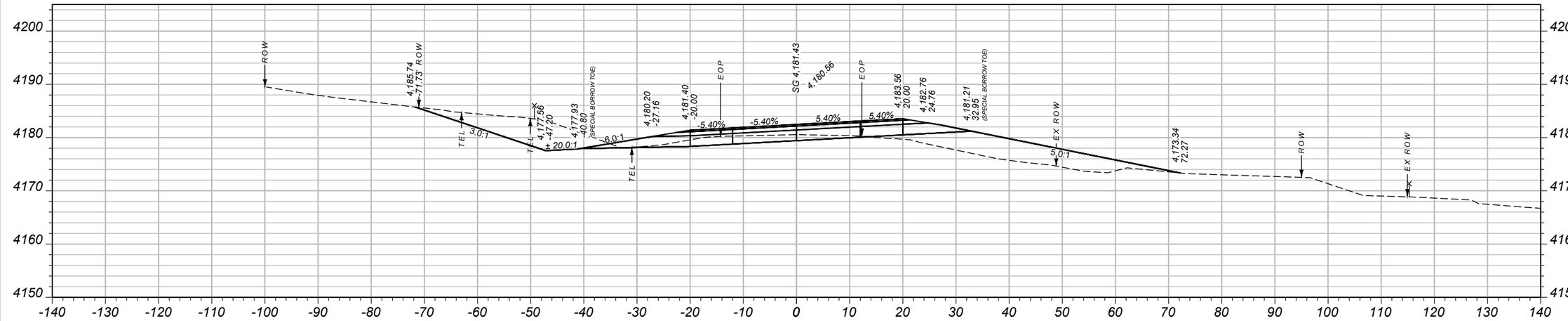
MONTANA Department of Transportation

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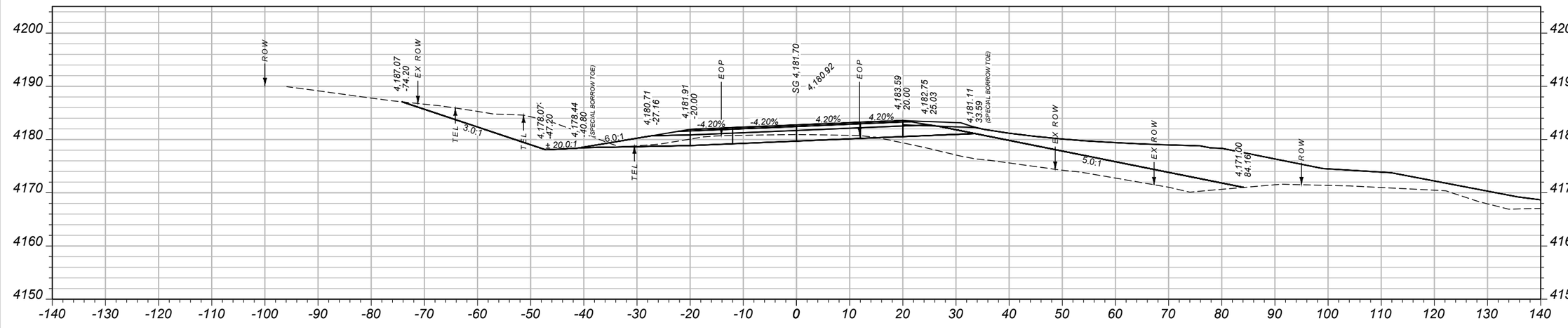
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AWARD COPY



CV: 188 CY STA 28+50.00 FV: 203 CY



CV: 109 CY STA 28+17.59 FV: 98 CY

SHEET NO.
XS8

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

MONTANA Department of Transportation

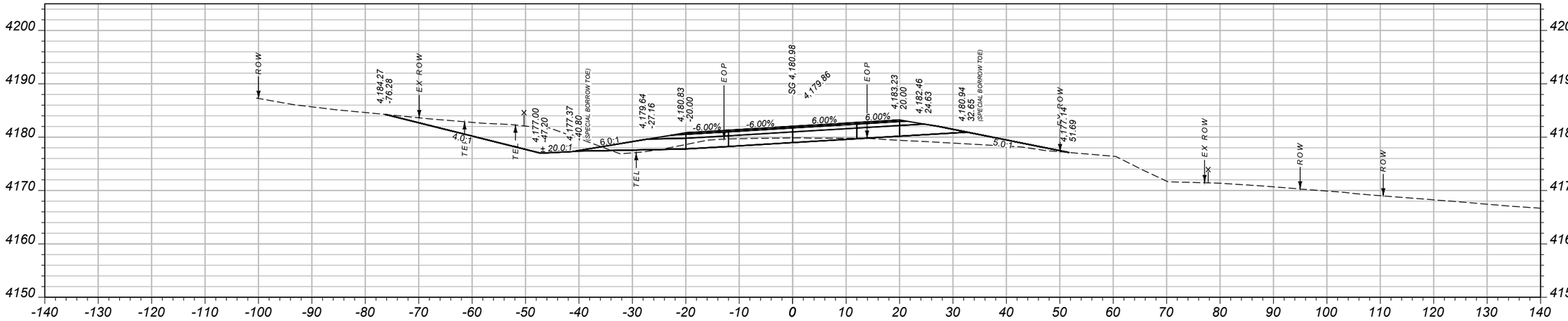
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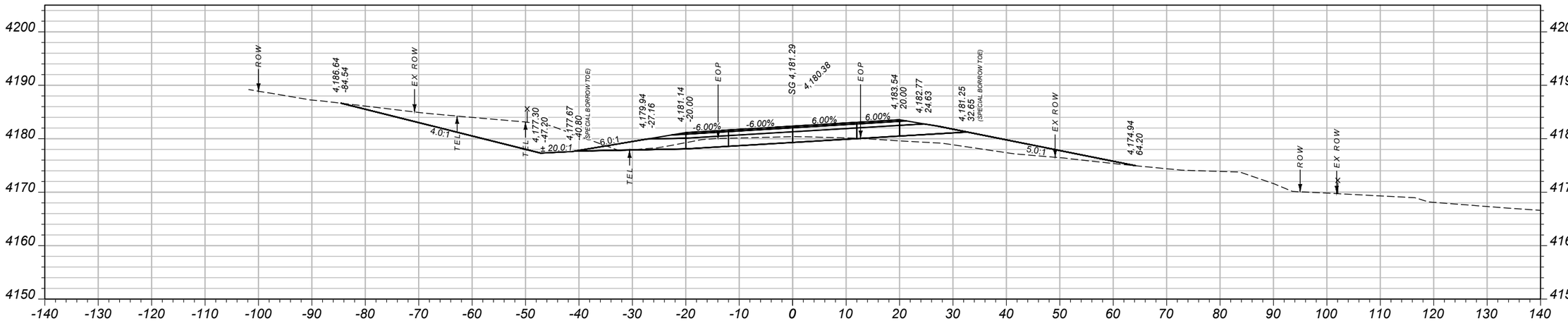
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 197 CY STA 29+00.00 FV: 73 CY



CV: 99 CY STA 28+66.19 FV: 64 CY

SHEET NO.
XS9

CROSS SECTIONS - SITE 1

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

DESIGNED BY	07/2024	A. BOSE	
REVIEWED BY	07/2024	J. BROTZLER	
CHECKED BY	04/2024	T. JOHNSON	

MONTANA Department of Transportation

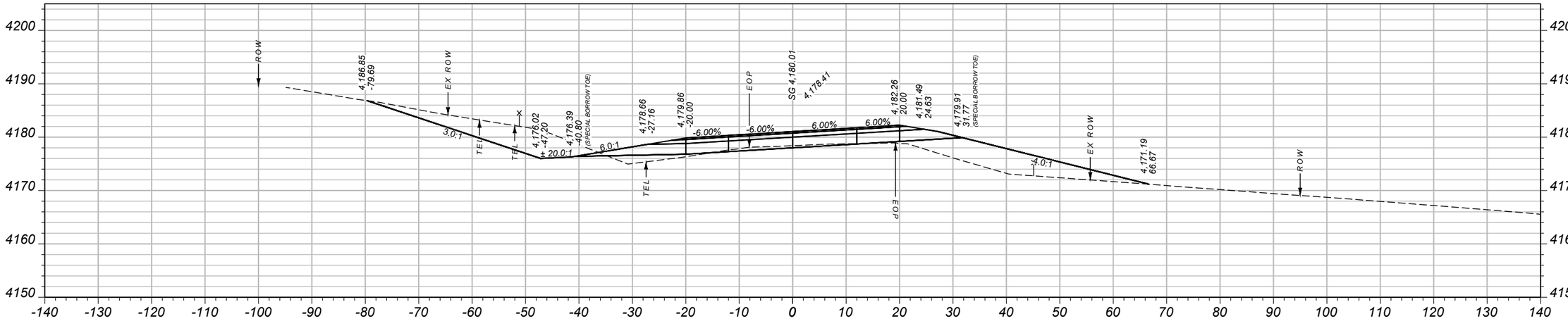
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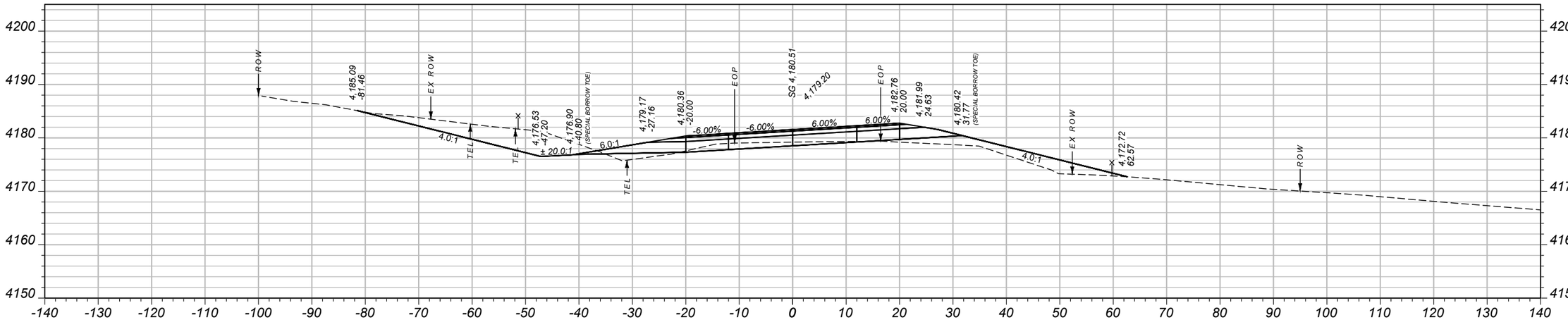
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 234 CY STA 30+00.00 FV: 202 CY



CV: 240 CY STA 29+50.00 FV: 109 CY

SHEET NO.
XS10

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

MONTANA Department of Transportation

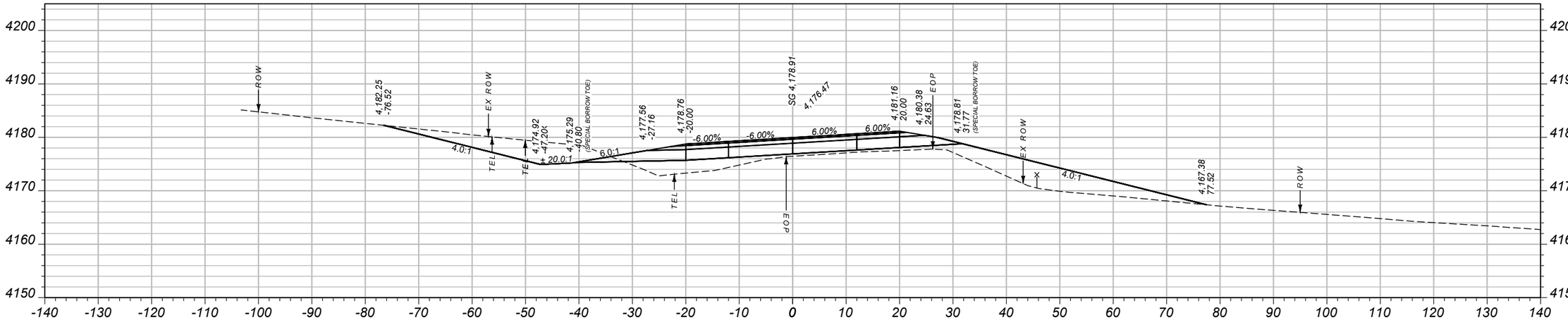
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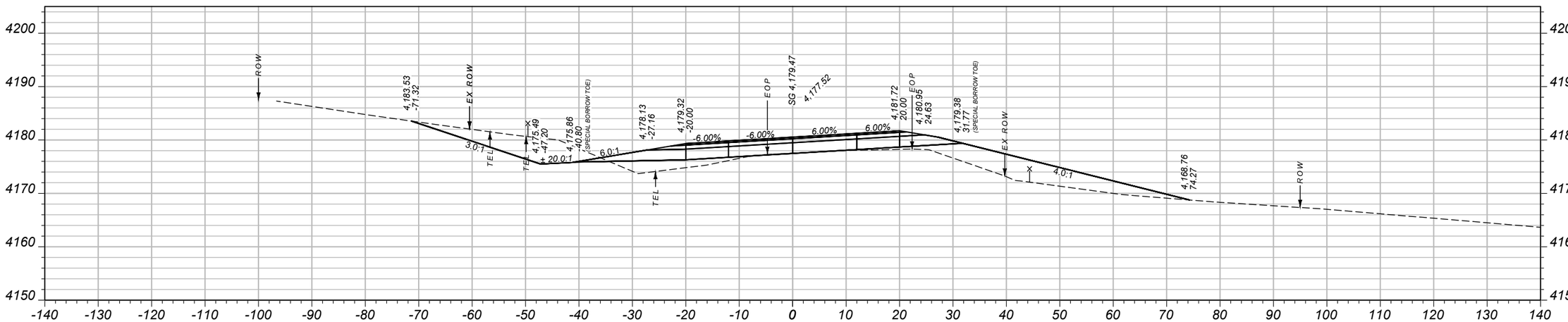
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 178 CY STA 31+00.00 FV: 350 CY



CV: 201 CY STA 30+50.00 FV: 294 CY

SHEET NO.
XS11

CROSS SECTIONS - SITE 1

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

DESIGNED BY		REVIEWED BY		CHECKED BY	
A. BOSE	07/2024	J. BROTZLER	07/2024	T. JOHNSON	04/2024

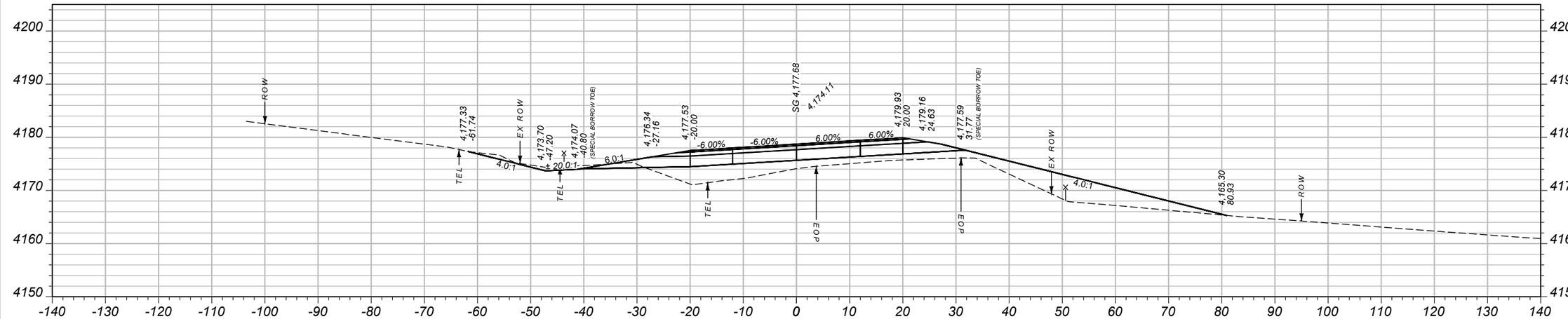
MONTANA
Department of Transportation

SITE 1

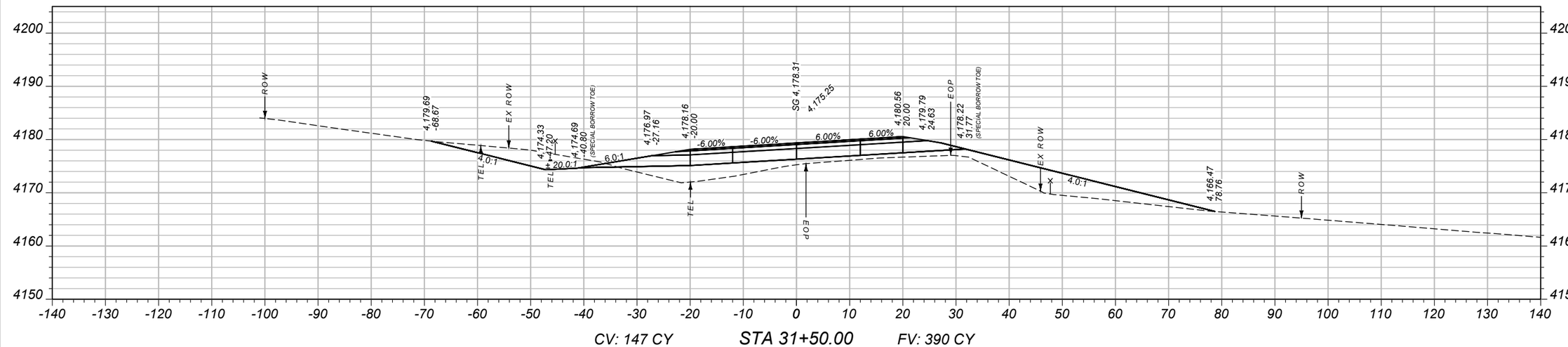
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 71 CY STA 32+00.00 FV: 418 CY



CV: 147 CY STA 31+50.00 FV: 390 CY

SHEET NO.
XS12

CROSS SECTIONS - SITE 1

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

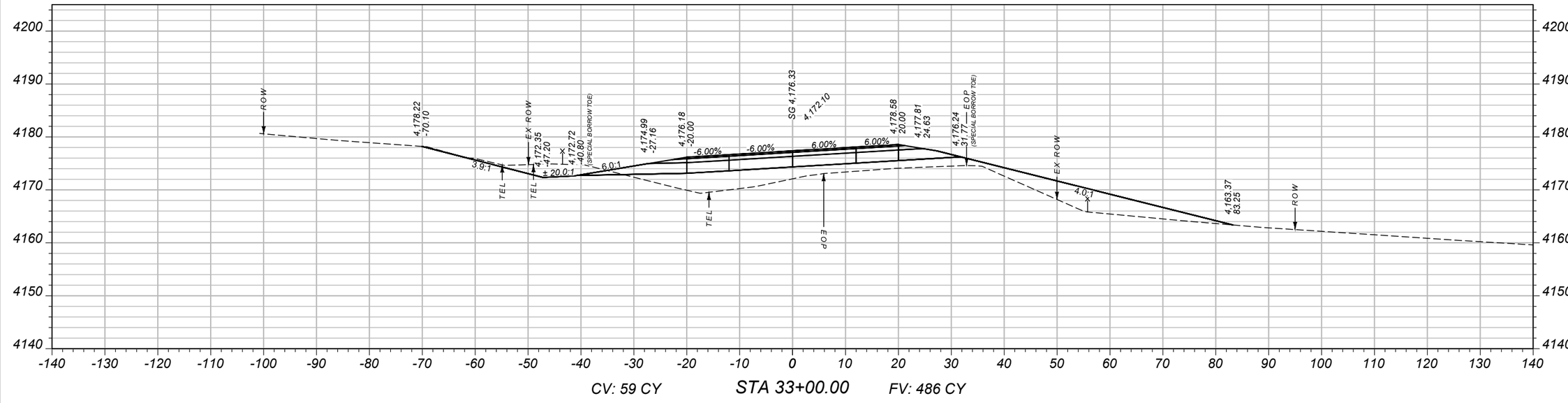
DESIGNED BY		REVIEWED BY		CHECKED BY	
A. BOSE	07/2024	J. BROTZLER	07/2024	T. JOHNSON	04/2024

MONTANA
Department of Transportation

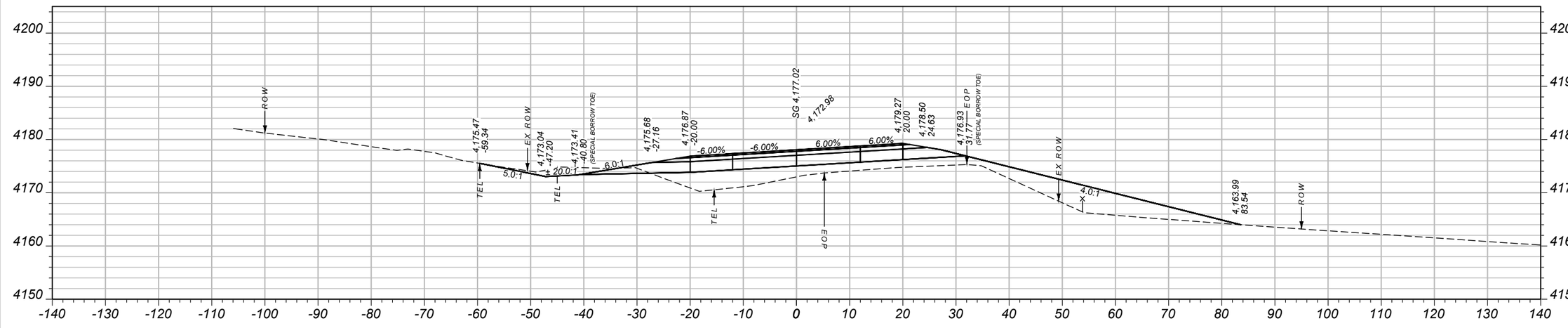
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3



CV: 59 CY STA 33+00.00 FV: 486 CY



CV: 41 CY STA 32+50.00 FV: 465 CY

SHEET NO.
XS13

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

9422000RDXSF001_NEW.DWG

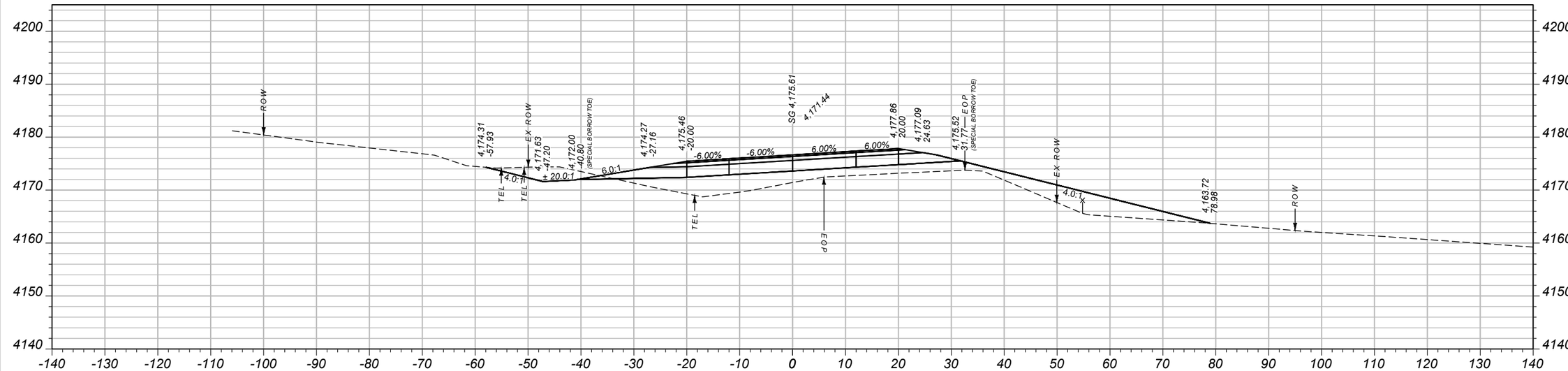
MONTANA Department of Transportation

SITE 1

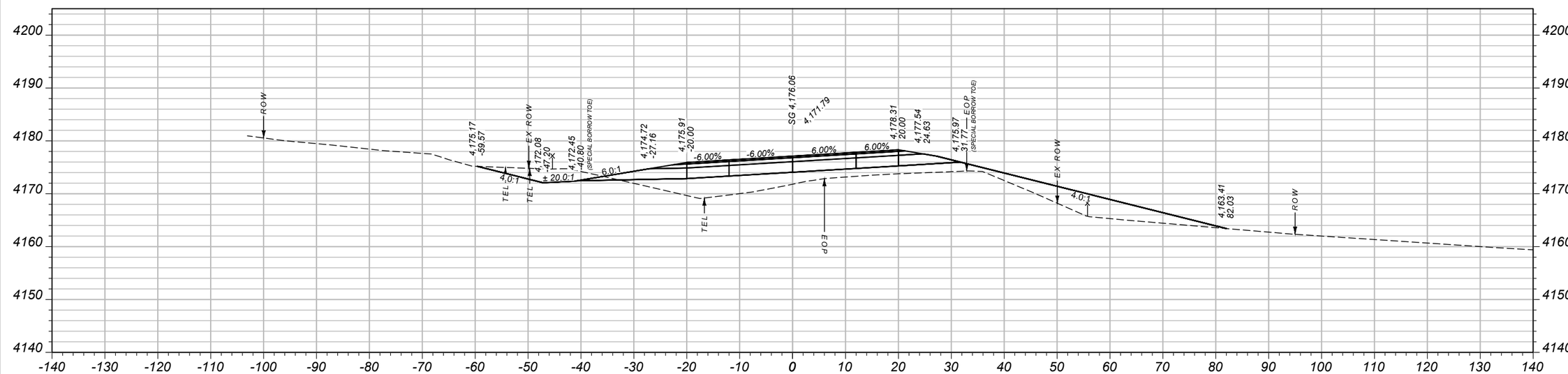
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 43 CY STA 33+50.00 FV: 281 CY



CV: 28 CY STA 33+19.14 FV: 179 CY

SHEET NO.
XS14

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	
REVIEWED BY	J. BROTZLER	07/2024	
CHECKED BY	T. JOHNSON	04/2024	

MONTANA Department of Transportation

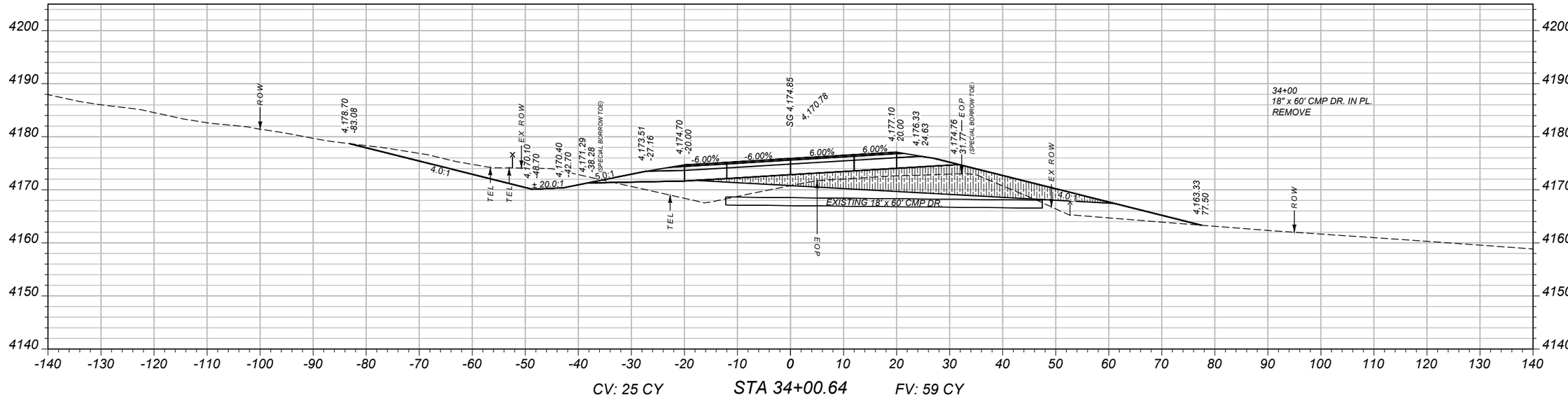
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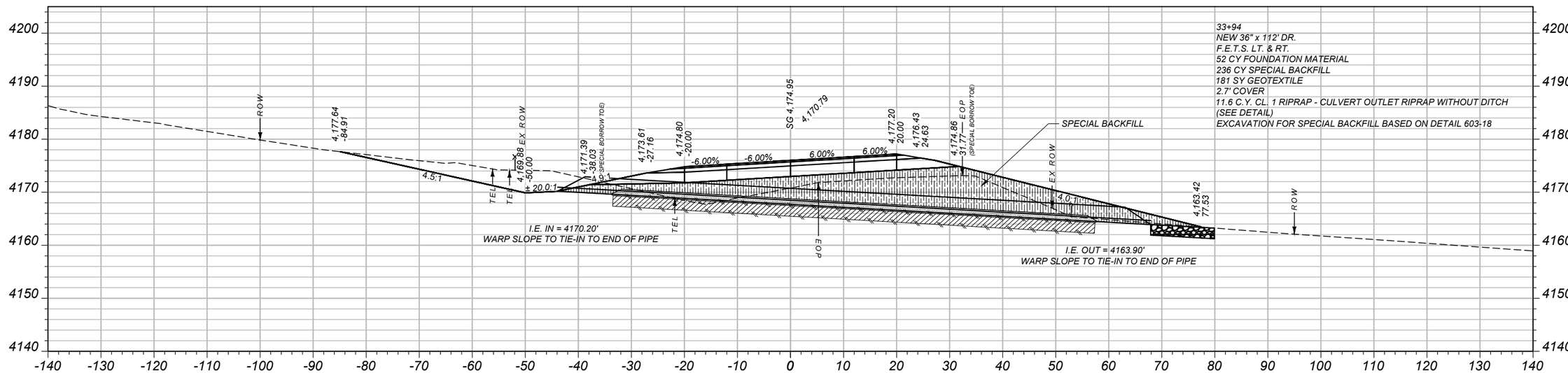
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 25 CY STA 34+00.64 FV: 59 CY



CV: 115 CY STA 33+94.00 FV: 163 CY

SHEET NO.
XS15

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	
REVIEWED BY	J. BROTZLER	07/2024	
CHECKED BY	T. JOHNSON	04/2024	9422000RDXSF001_NEW.DWG

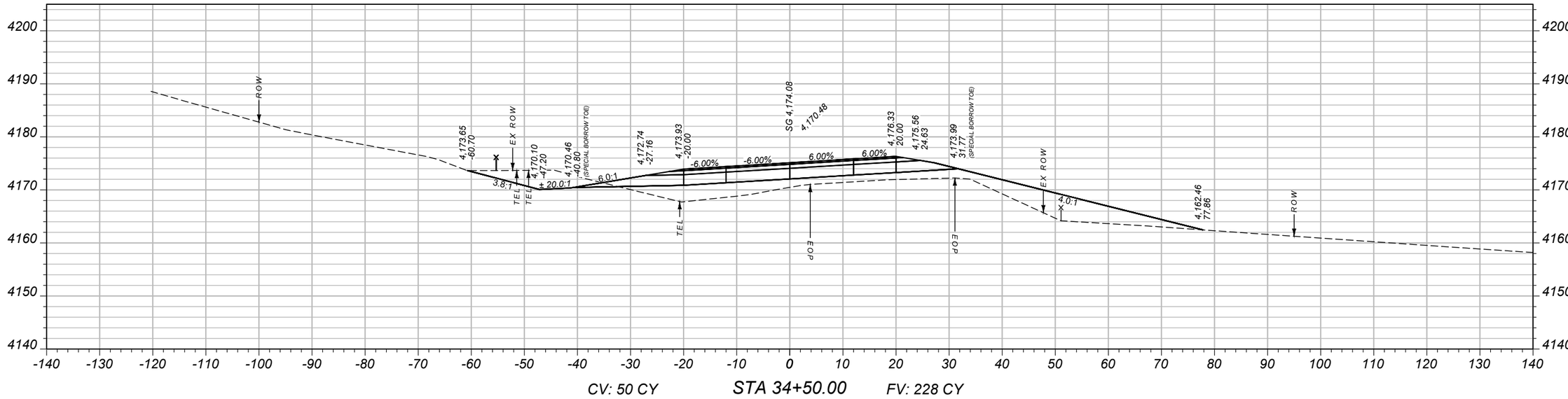
MONTANA Department of Transportation

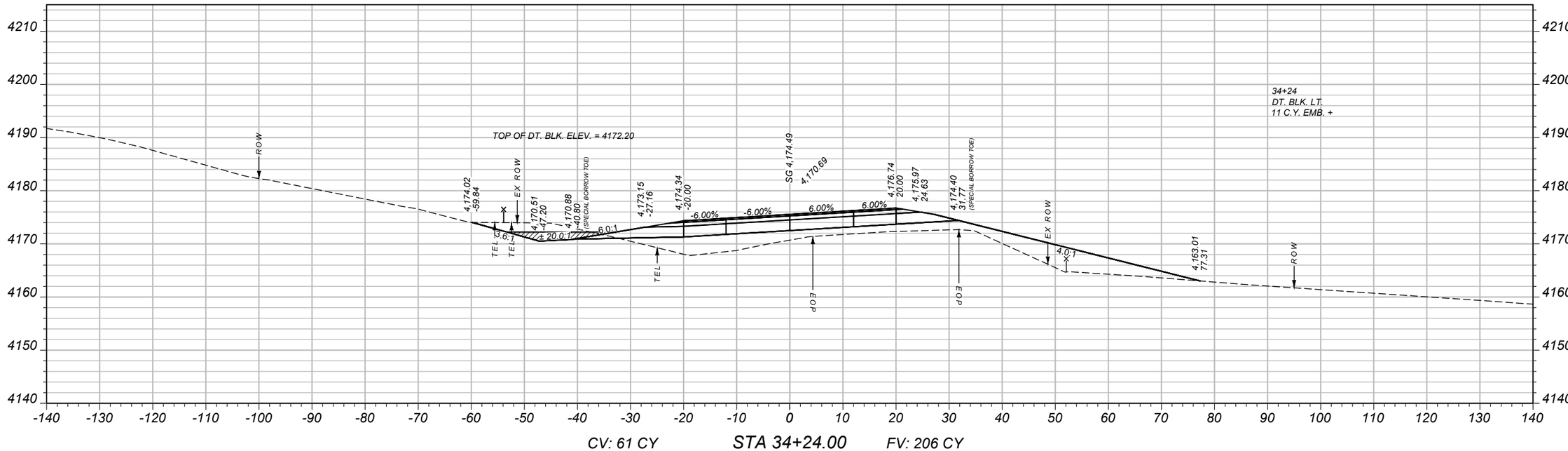
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11/20/2024 1:43 PM

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY





SHEET NO.
XS16

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

9422000RDXSF001_NEW.DWG

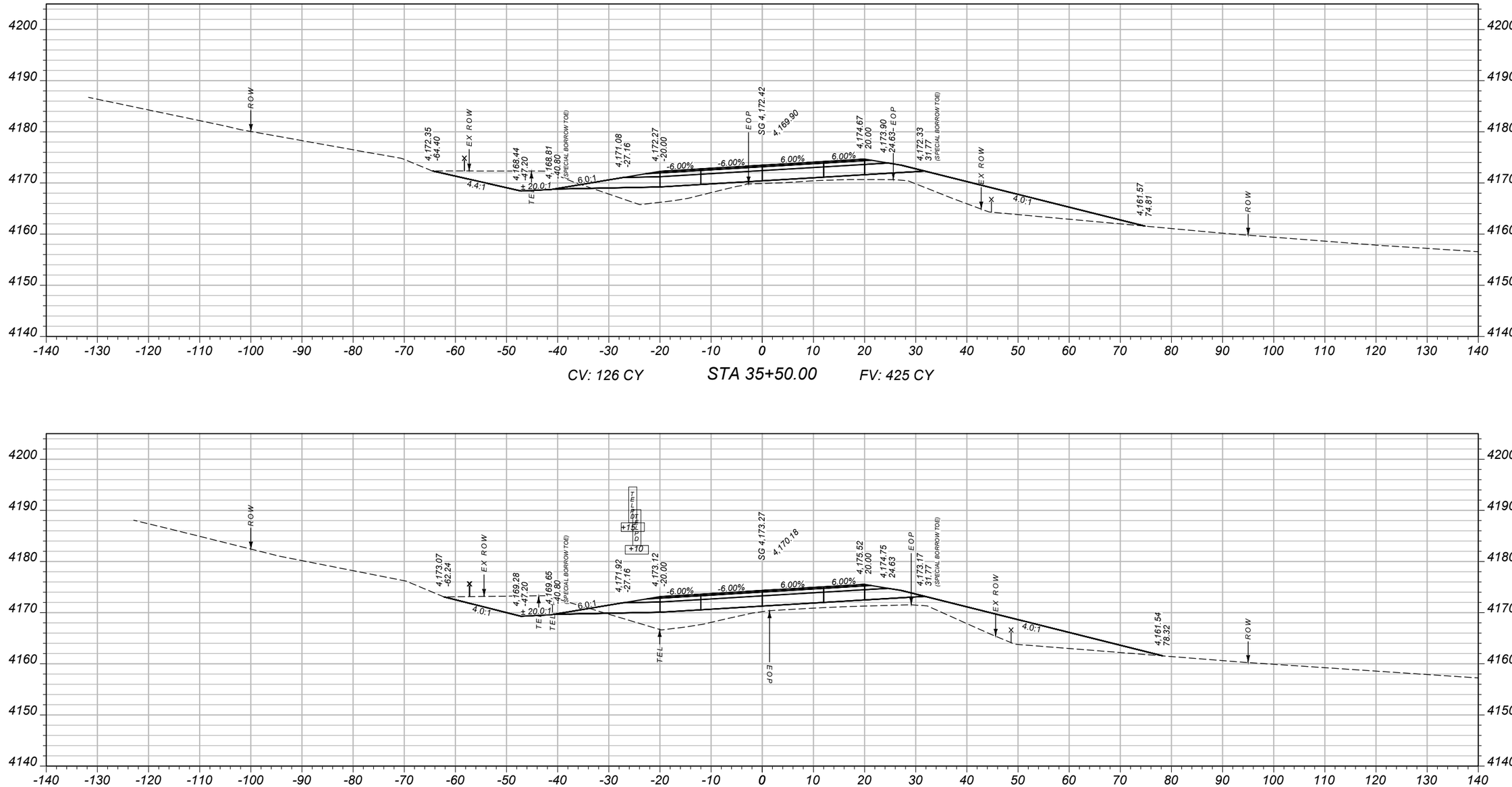
MONTANA
Department of Transportation

SITE 1

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AWARD COPY



SHEET NO.
XS17

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	
REVIEWED BY	J. BROTZLER	07/2024	
CHECKED BY	T. JOHNSON	04/2024	

MONTANA
Department of Transportation

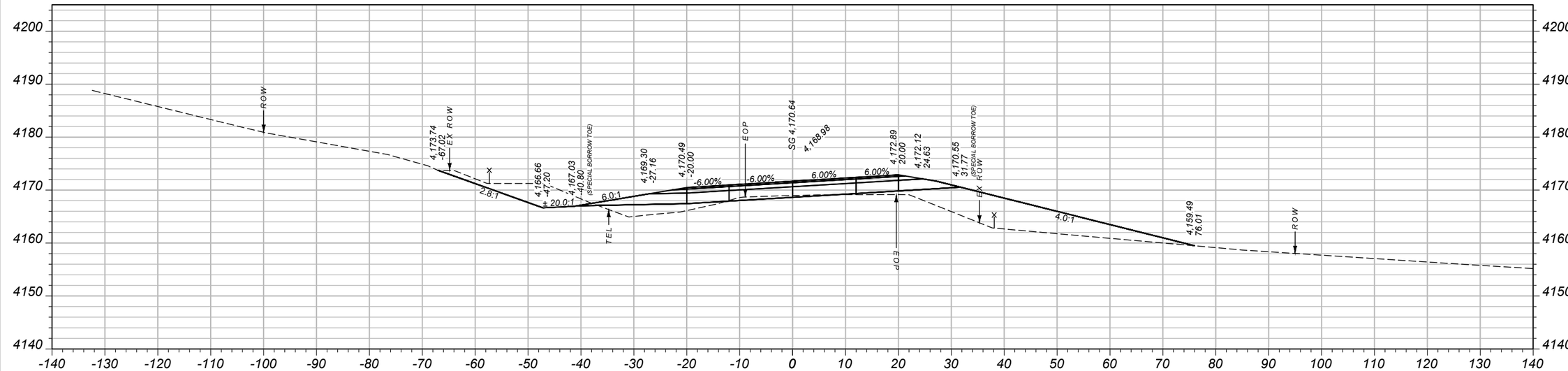
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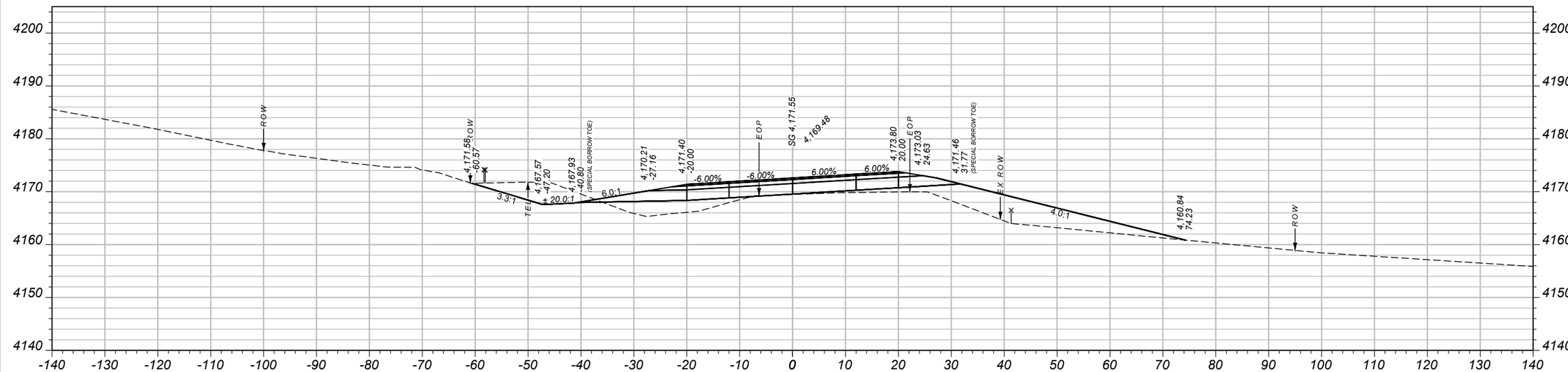
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 110 CY STA 36+50.00 FV: 397 CY



CV: 111 CY STA 36+00.00 FV: 395 CY

SHEET NO.
XS18

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
A. BOSE	07/2024	J. BROTZLER	07/2024	T. JOHNSON	04/2024

MONTANA Department of Transportation

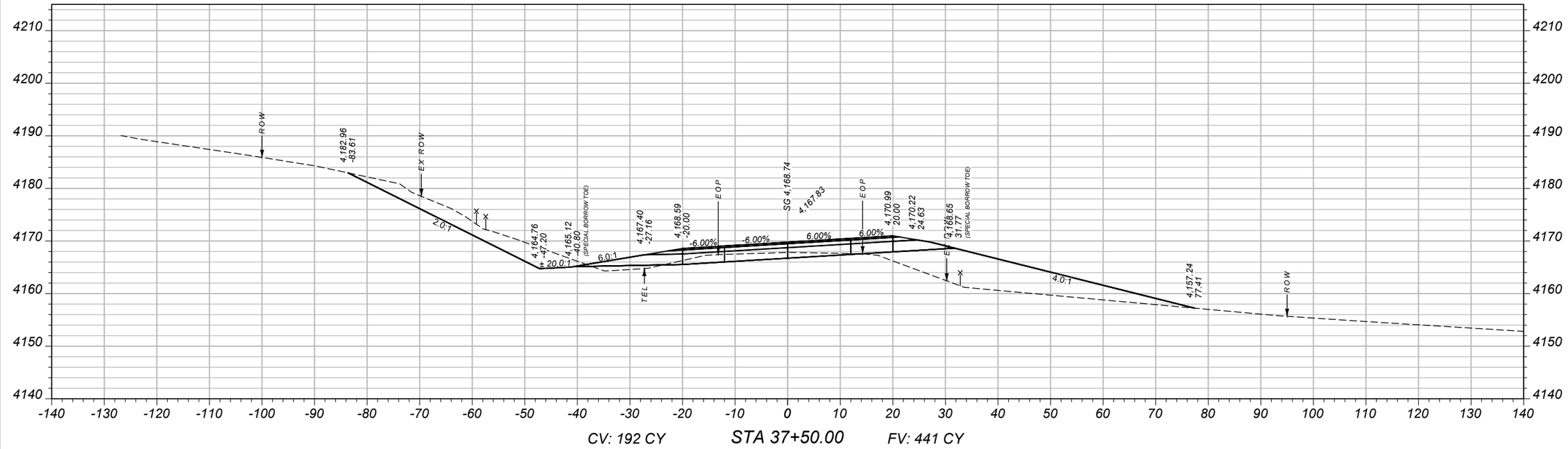
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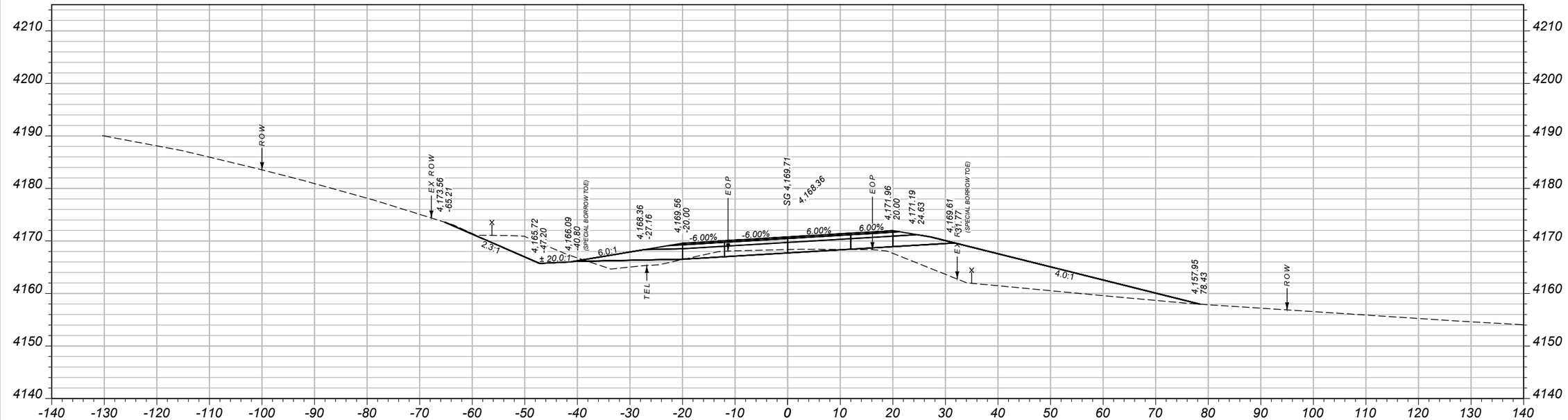
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AWARD COPY



CV: 192 CY STA 37+50.00 FV: 441 CY



CV: 121 CY STA 37+00.00 FV: 434 CY

SHEET NO.
XS19

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	07/2024	A. BOSE	
REVIEWED BY	07/2024	J. BROTZLER	
CHECKED BY	04/2024	T. JOHNSON	

9422000RDXSF001_NEW.DWG

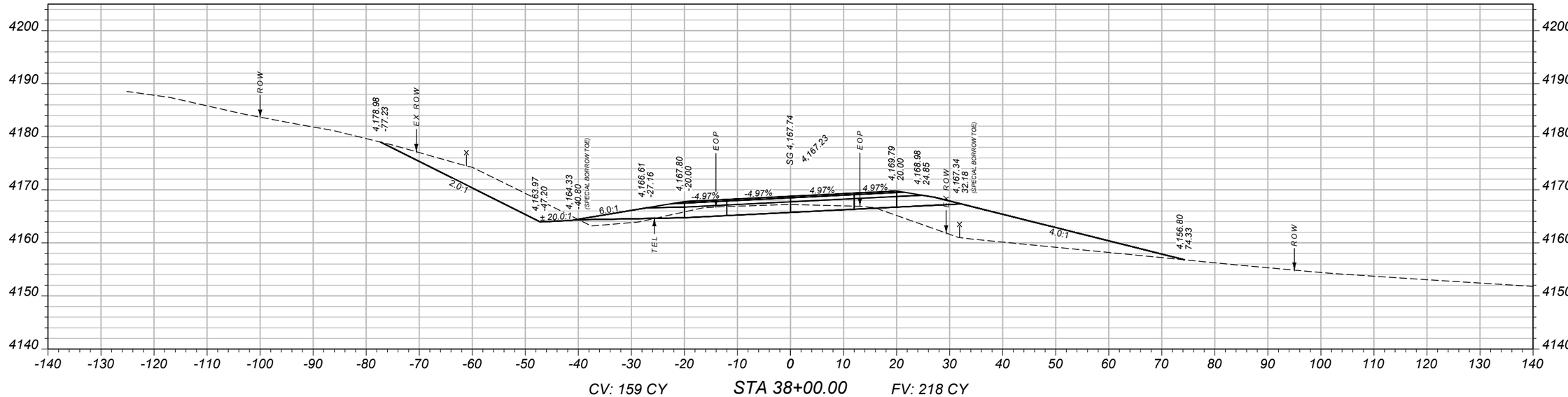
MONTANA Department of Transportation

SITE 1

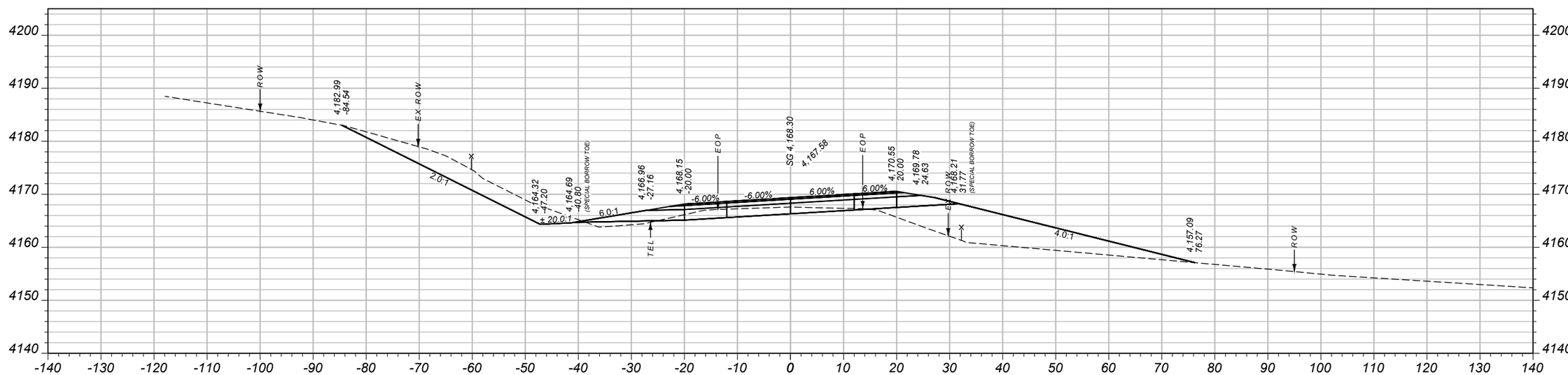
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AWARD COPY



CV: 159 CY STA 38+00.00 FV: 218 CY



CV: 125 CY STA 37+72.09 FV: 185 CY

SHEET NO.
XS20

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

9422000RDXSF001_NEW.DWG

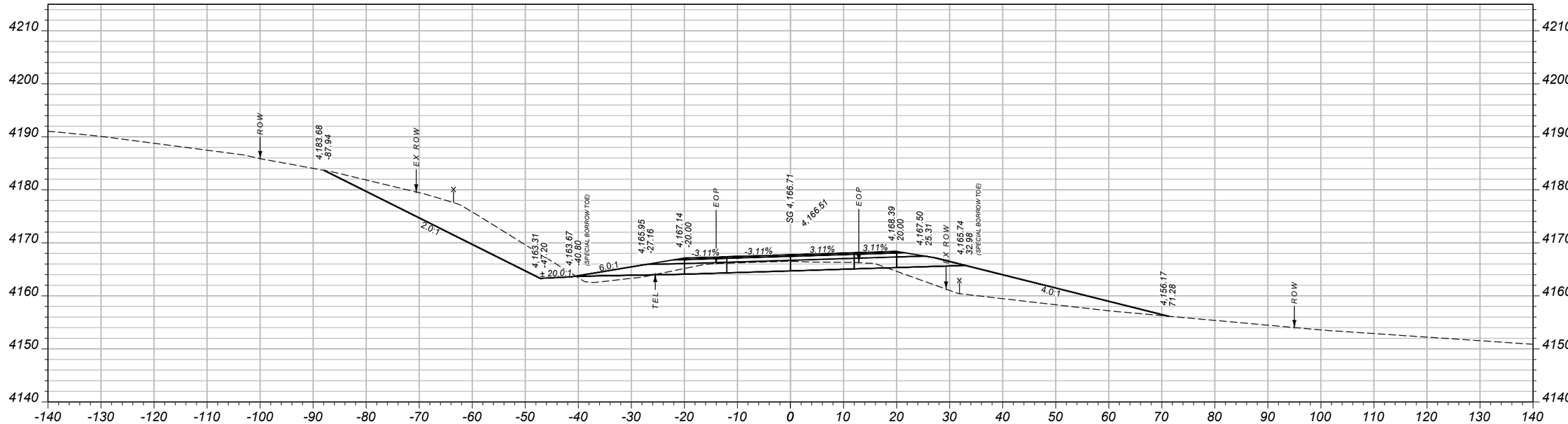
MONTANA Department of Transportation

SITE 1

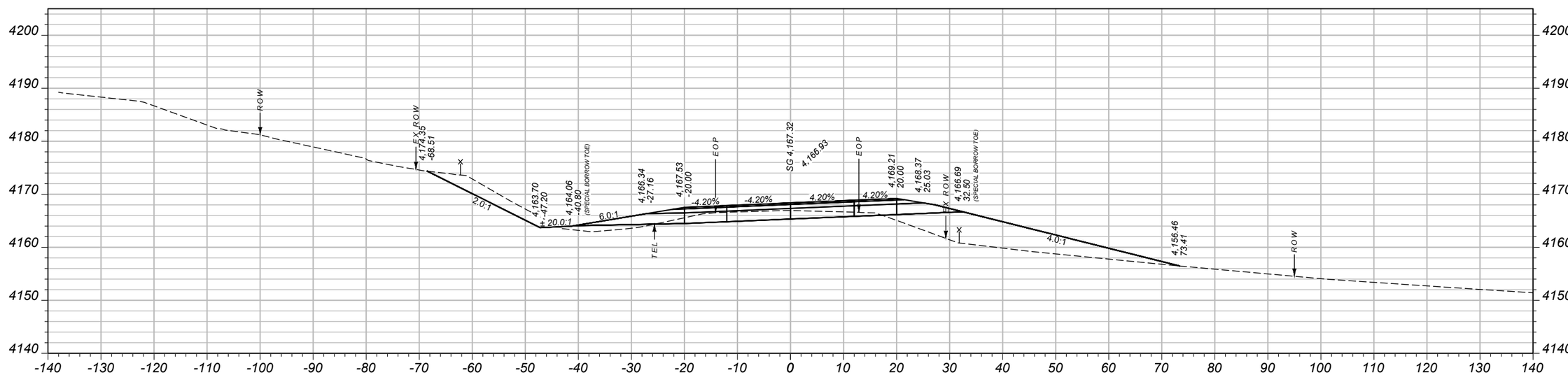
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 188 CY STA 38+50.00 FV: 189 CY



CV: 95 CY STA 38+20.69 FV: 147 CY

SHEET NO.
XS21

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	CHECKED BY	T. JOHNSON	04/2024
REVIEWED BY	J. BROTZLER	07/2024			

MONTANA Department of Transportation

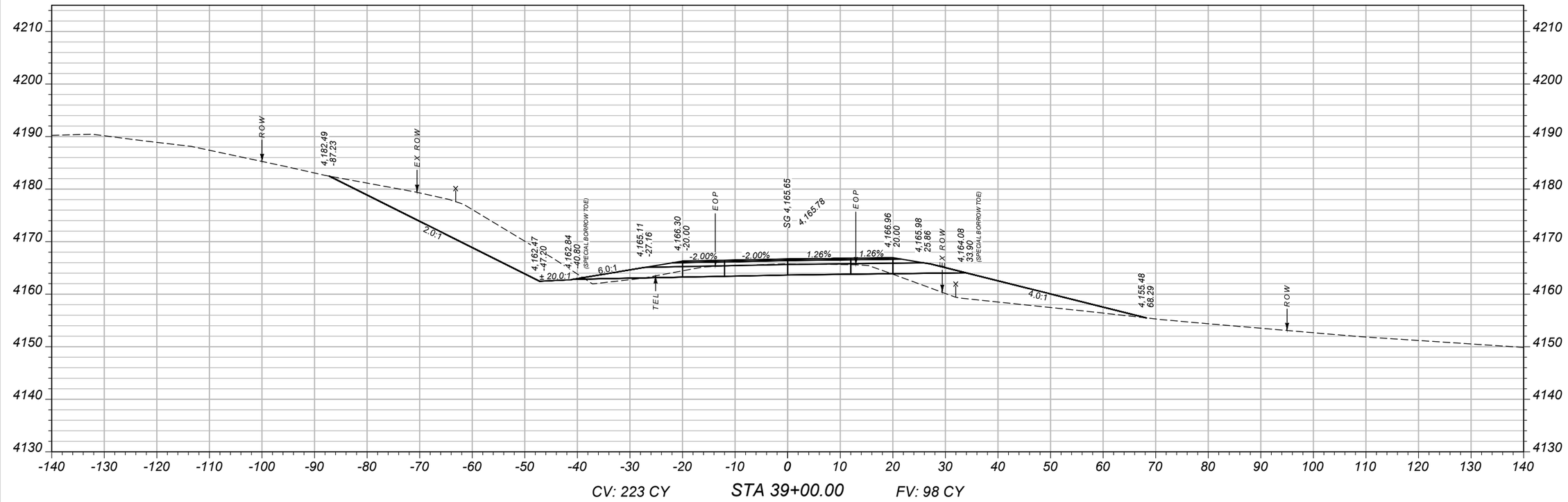
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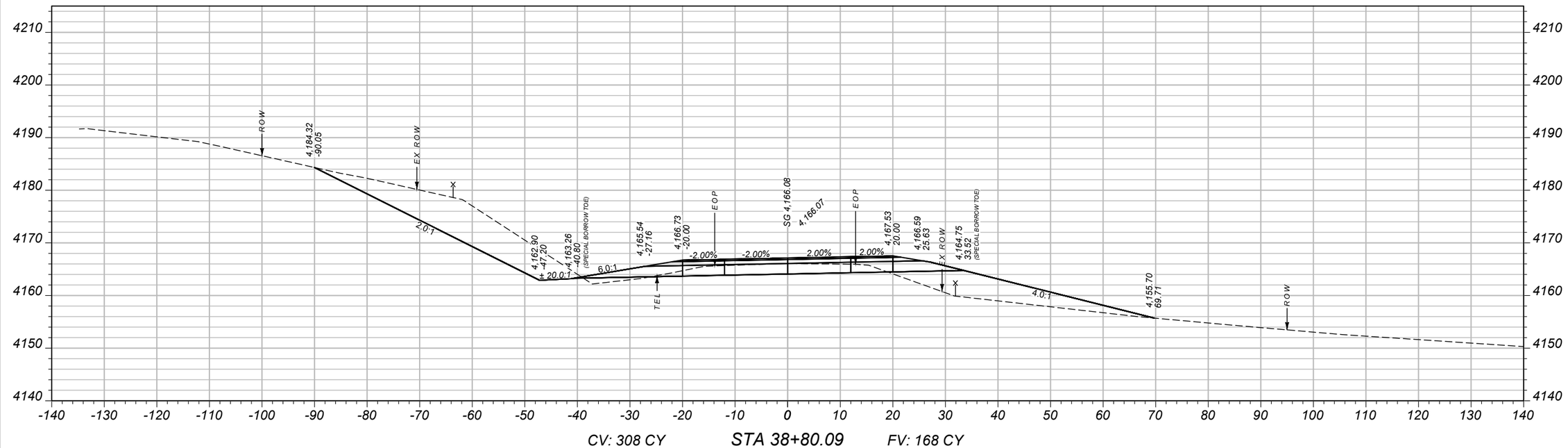
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9422000RDXSF001_NEW.DWG

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY





SHEET NO.
XS22

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

9422000RDXSF001_NEW.DWG

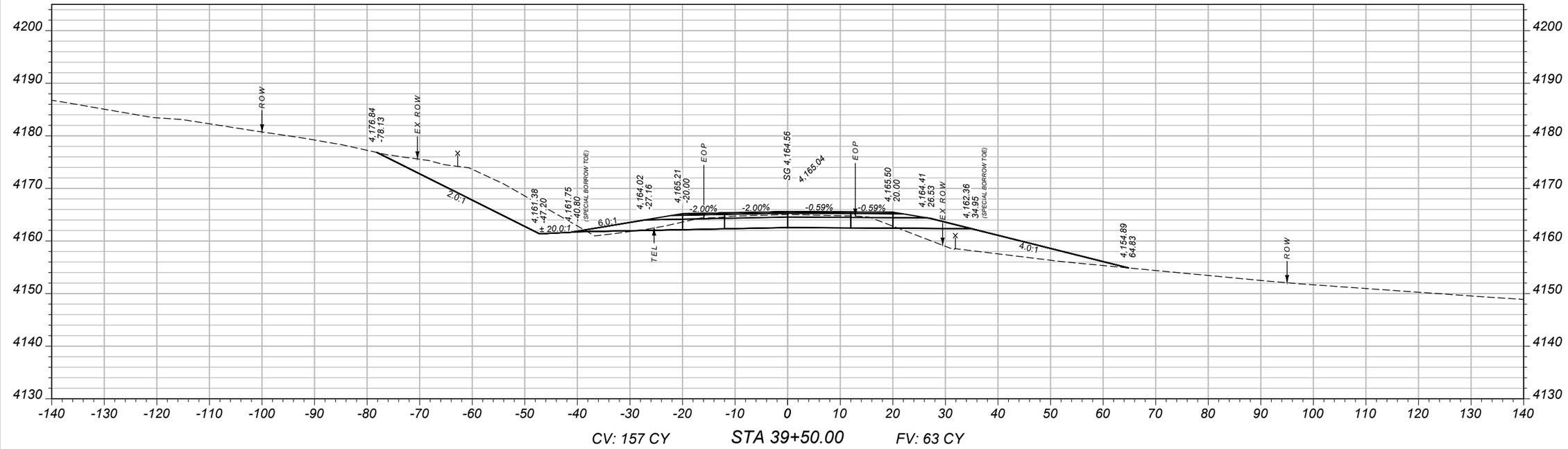
MONTANA
Department of Transportation

SITE 1

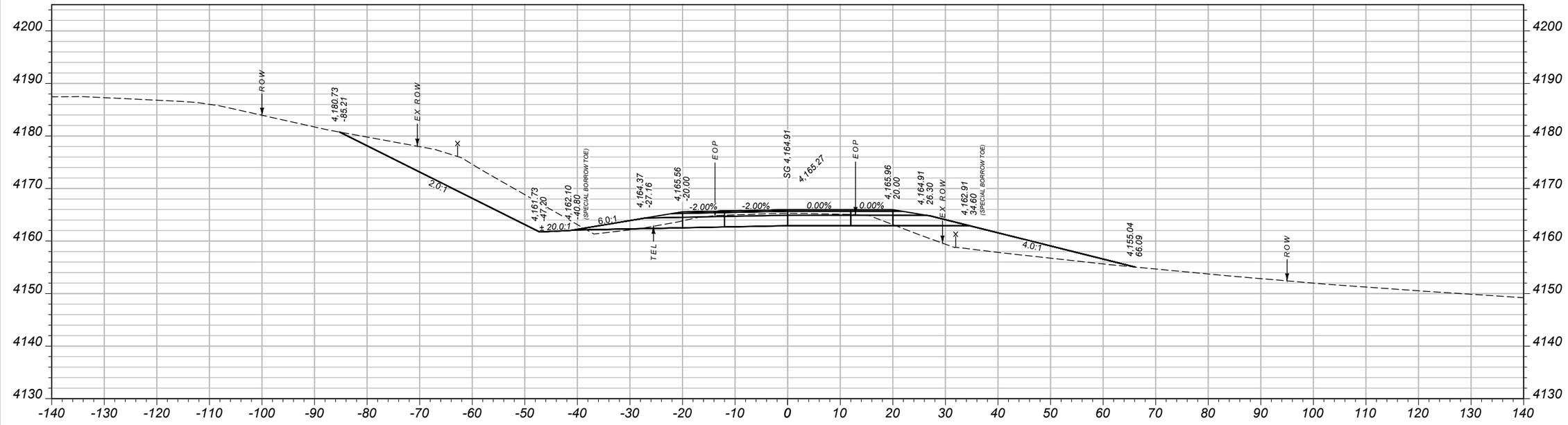
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AWARD COPY



CV: 157 CY STA 39+50.00 FV: 63 CY



CV: 369 CY STA 39+34.09 FV: 151 CY

SHEET NO.
XS23

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	REVIEWED BY	CHECKED BY
A. BOSE 07/2024	J. BROTZLER 07/2024	T. JOHNSON 04/2024

MONTANA Department of Transportation

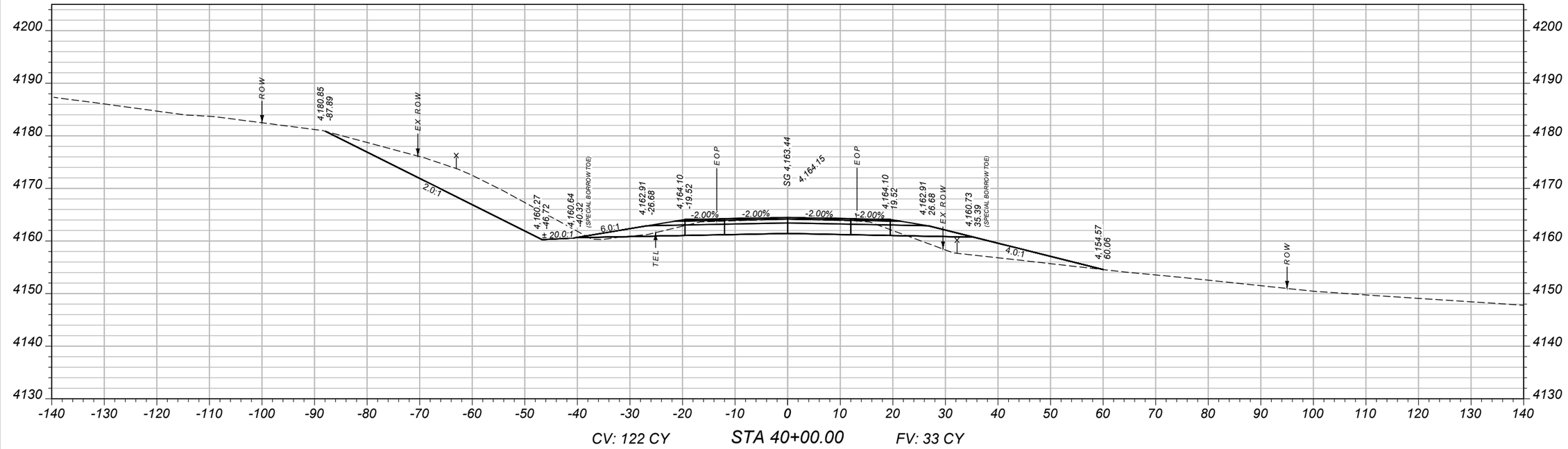
SITE 1

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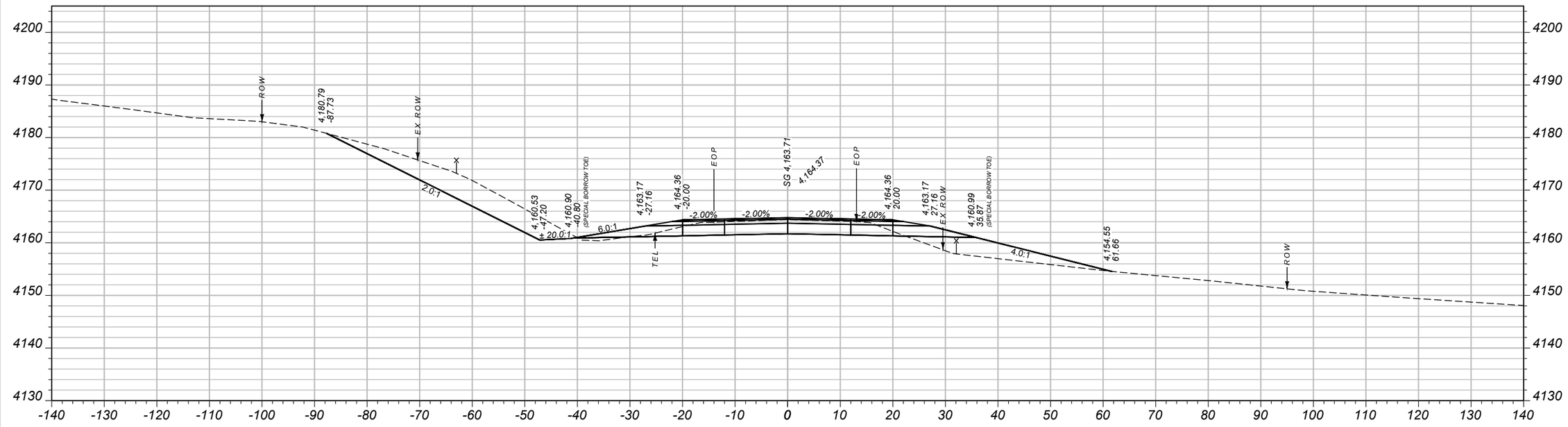
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 122 CY STA 40+00.00 FV: 33 CY



CV: 359 CY STA 39+88.09 FV: 129 CY

SHEET NO.
XS24

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

9422000RDXSF001_NEW.DWG

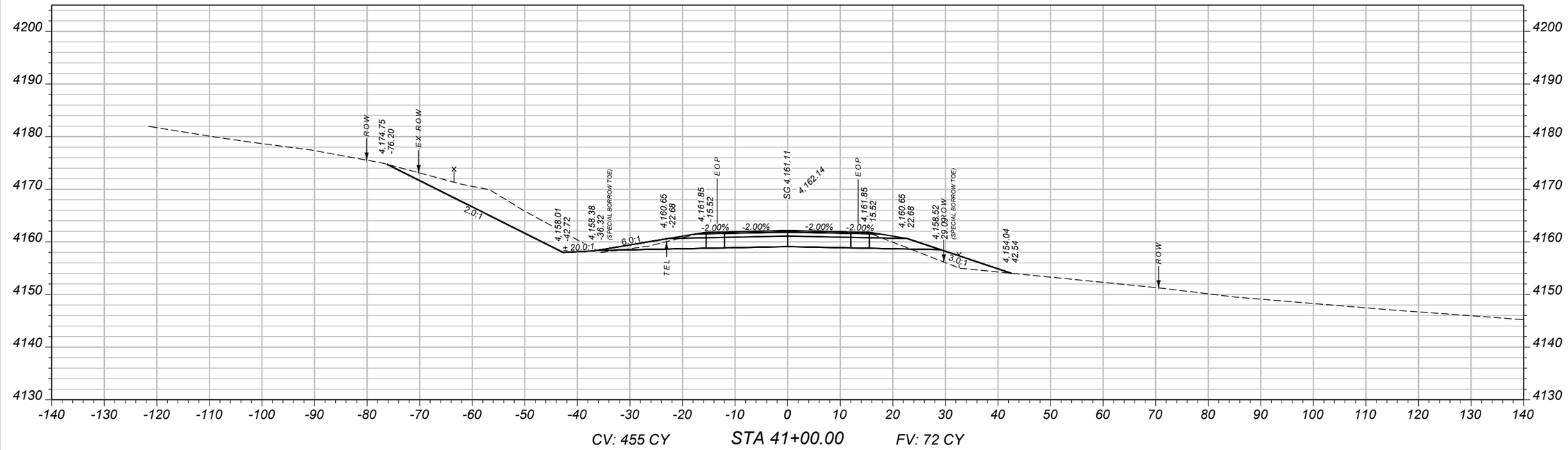
MONTANA
Department of Transportation

SITE 1

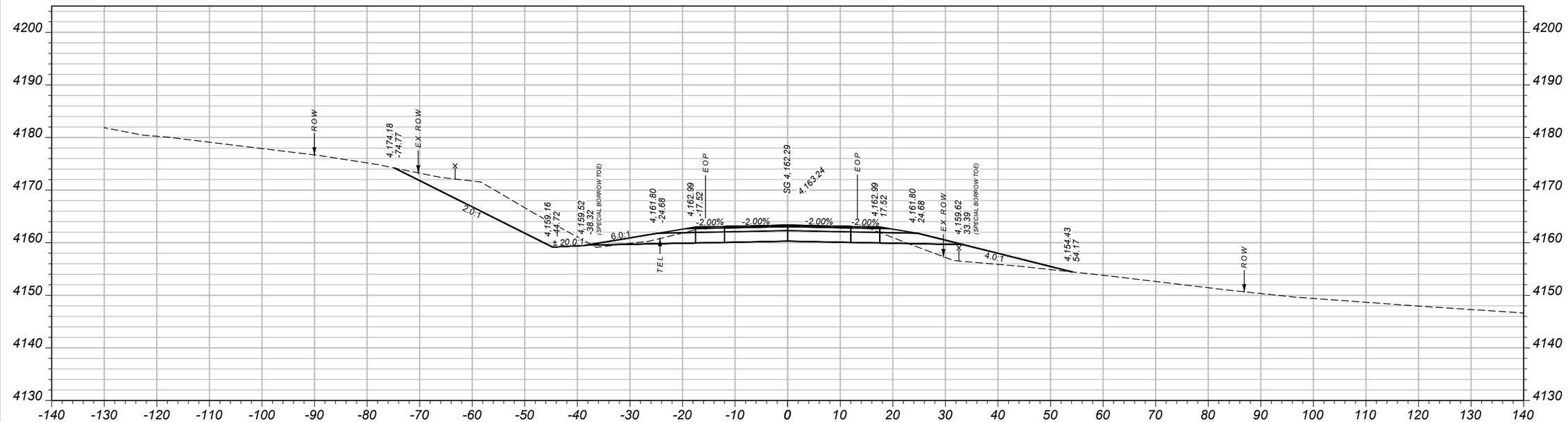
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 455 CY STA 41+00.00 FV: 72 CY



CV: 499 CY STA 40+50.00 FV: 112 CY

SHEET NO.
XS25

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

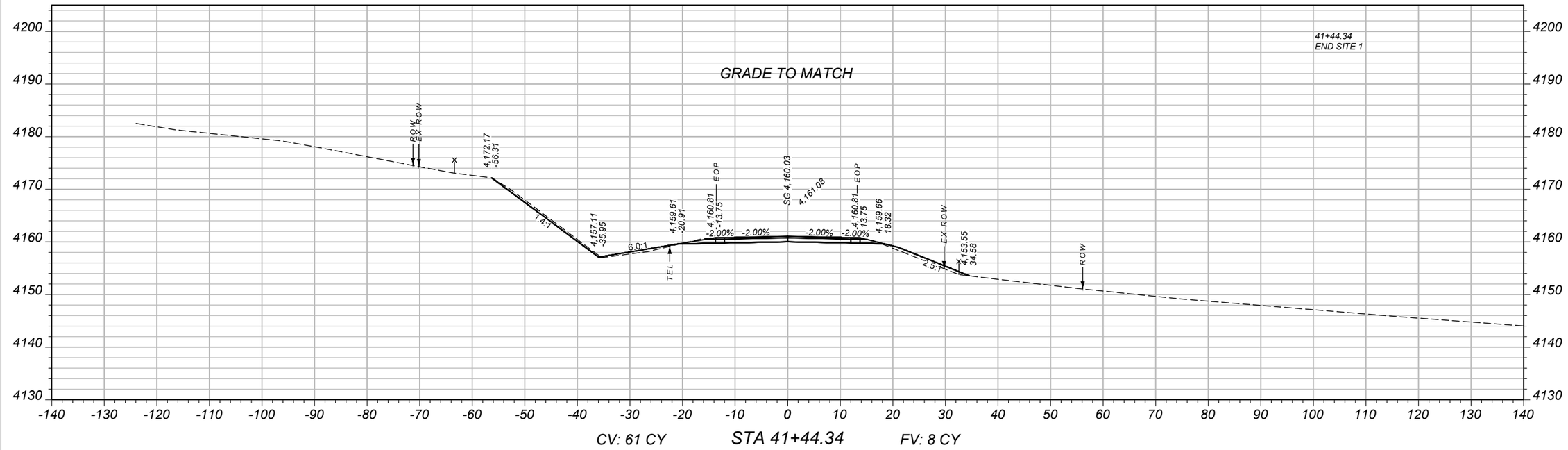
DESIGNED BY		07/2024
A. BOSE	REVIEWED BY	07/2024
J. BROTZLER	CHECKED BY	04/2024
T. JOHNSON	9422000RDXSF001_NEW.DWG	

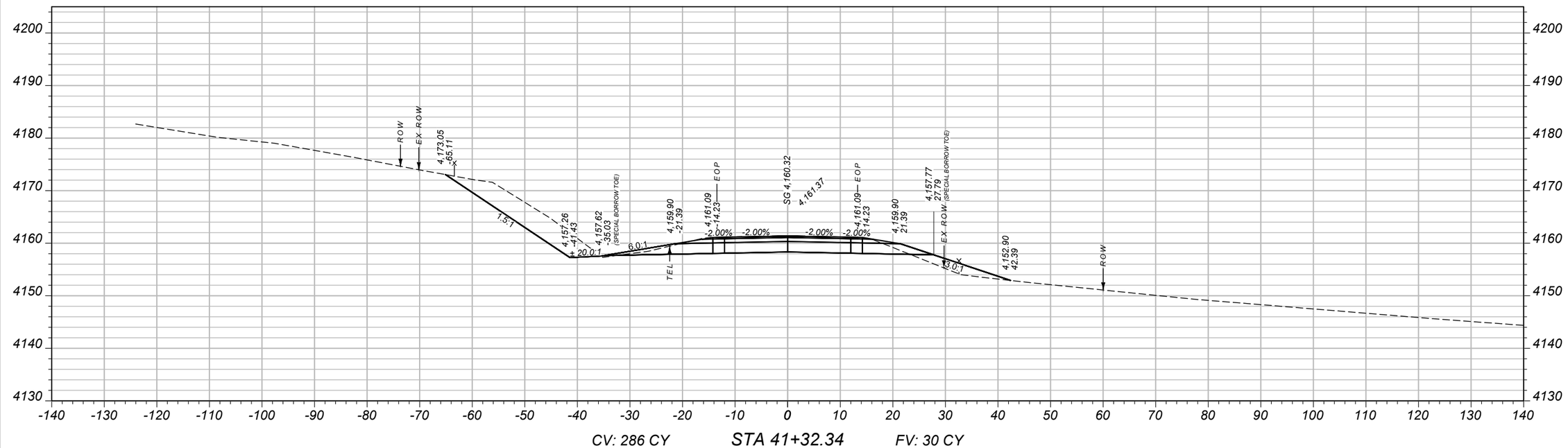
MONTANA
Department of Transportation

SITE 1

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SHEET NO.
XS26

CROSS SECTIONS - SITE 1

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	
REVIEWED BY	J. BROTZLER	07/2024	
CHECKED BY	T. JOHNSON	04/2024	

9422000RDXSF001_NEW.DWG

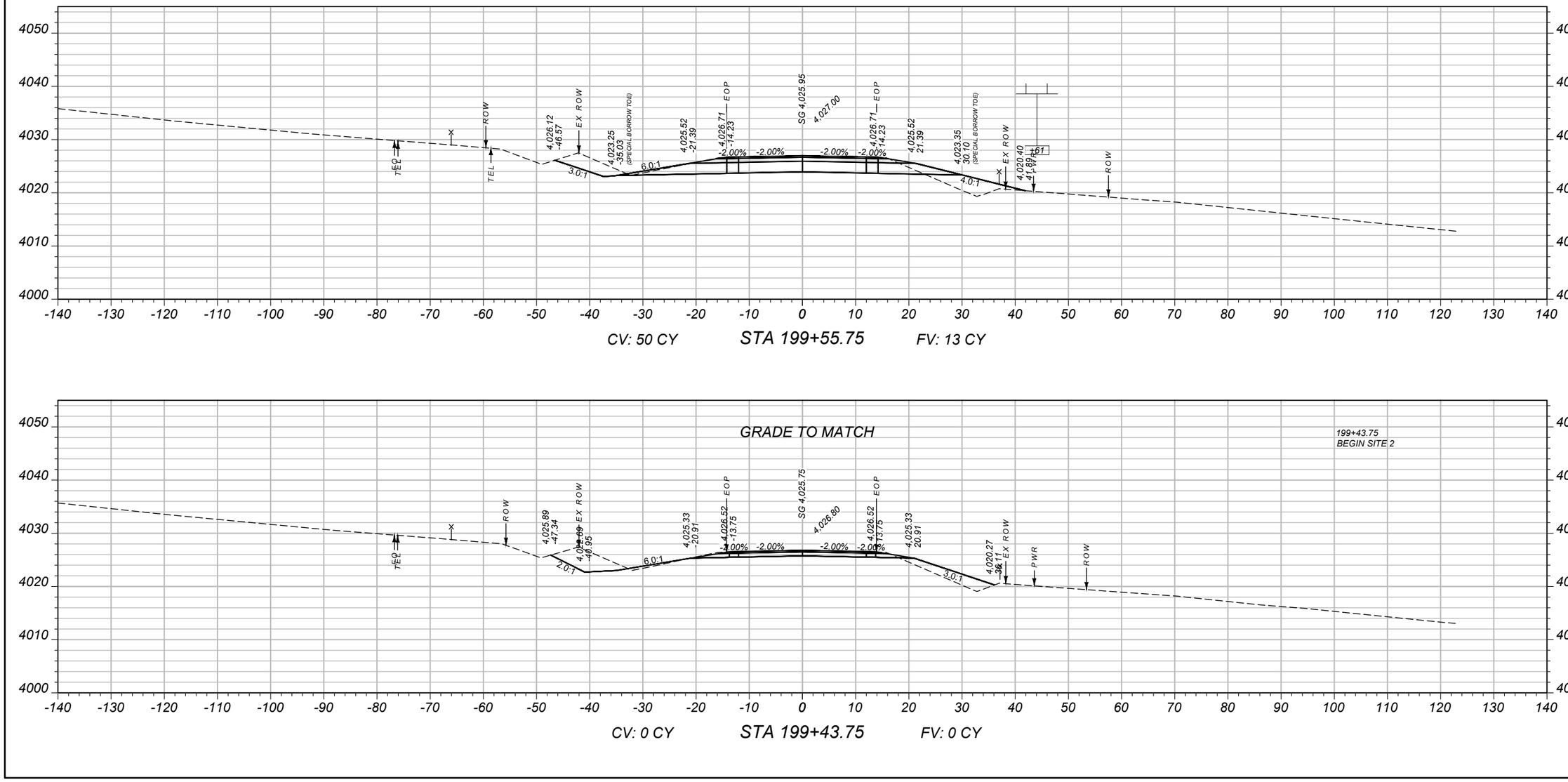
MONTANA
Department of Transportation

SITE 1

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AWARD COPY



SHEET NO.
XS27

CROSS SECTIONS - SITE 2

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

DESIGNED BY		REVIEWED BY		CHECKED BY	
A. BOSE	07/2024	J. BROTZLER	07/2024	T. JOHNSON	04/2024

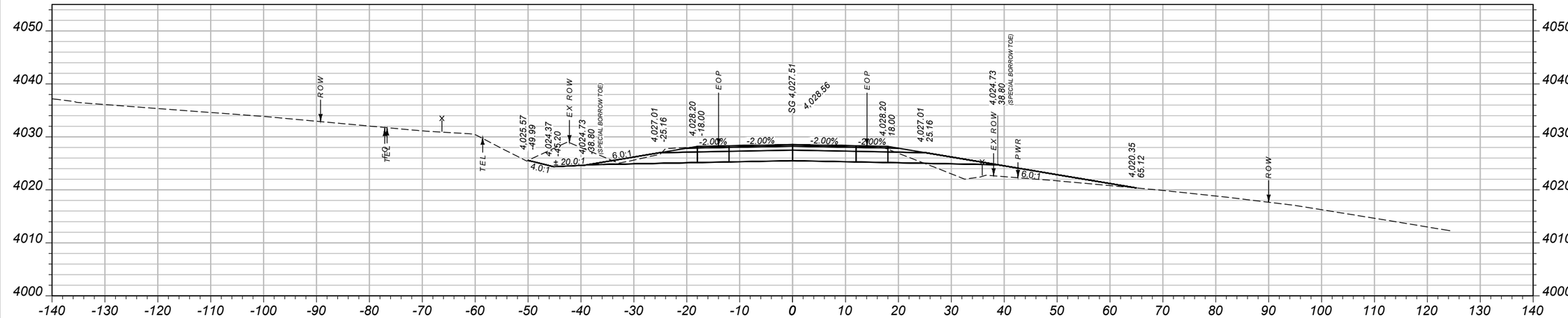
MONTANA
Department of Transportation

SITE 2

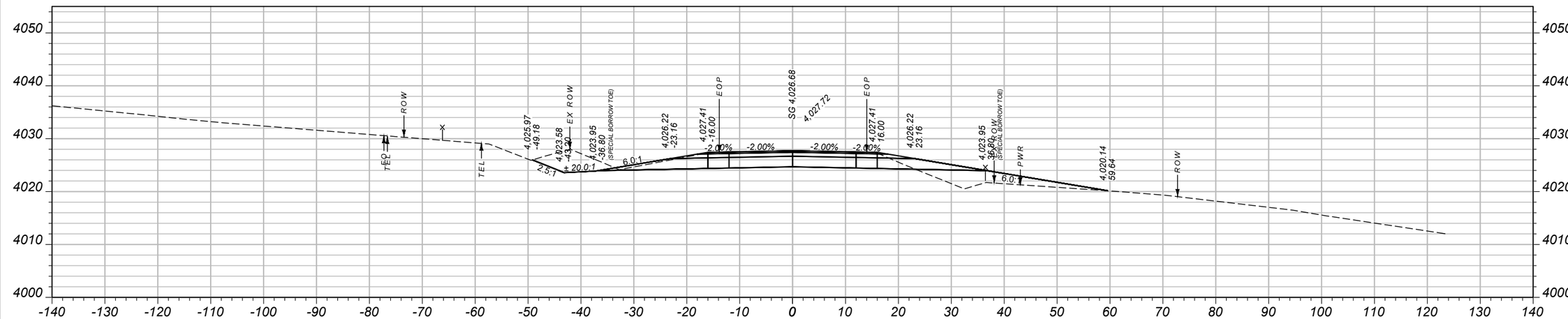
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AWARD COPY



CV: 330 CY STA 200+50.00 FV: 99 CY



CV: 267 CY STA 200+00.00 FV: 69 CY

SHEET NO.
XS28

CROSS SECTIONS - SITE 2

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

DESIGNED BY	07/2024	A. BOSE	
REVIEWED BY	07/2024	J. BROTZLER	
CHECKED BY	04/2024	T. JOHNSON	

MONTANA
Department of Transportation

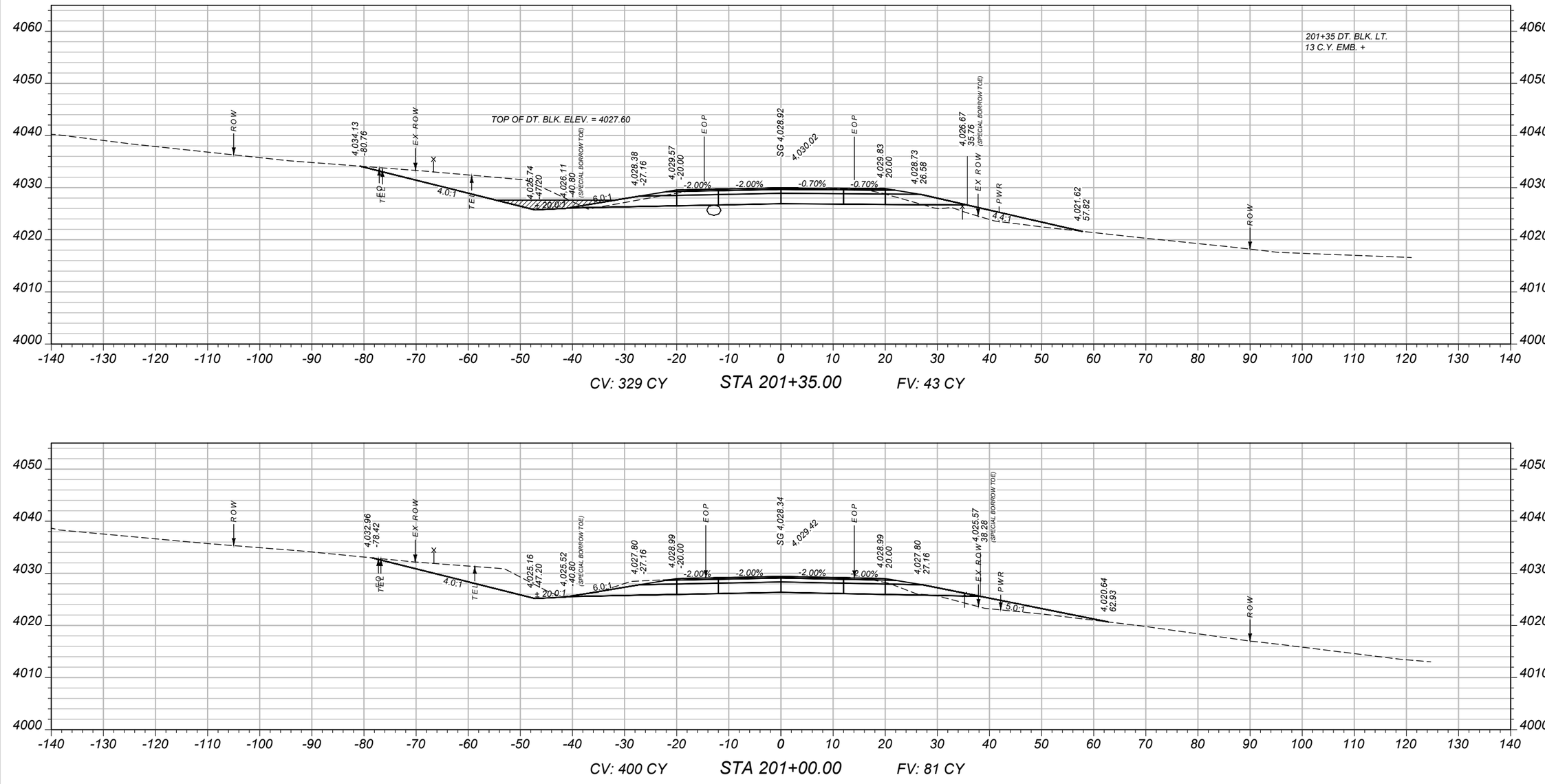
SITE 2

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9422000RDXSF002_NEW.DWG

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



SHEET NO.
XS29

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY			REVIEWED BY			CHECKED BY		
A. BOSE		07/2024	J. BROTZLER		07/2024	T. JOHNSON		04/2024

MONTANA
Department of Transportation

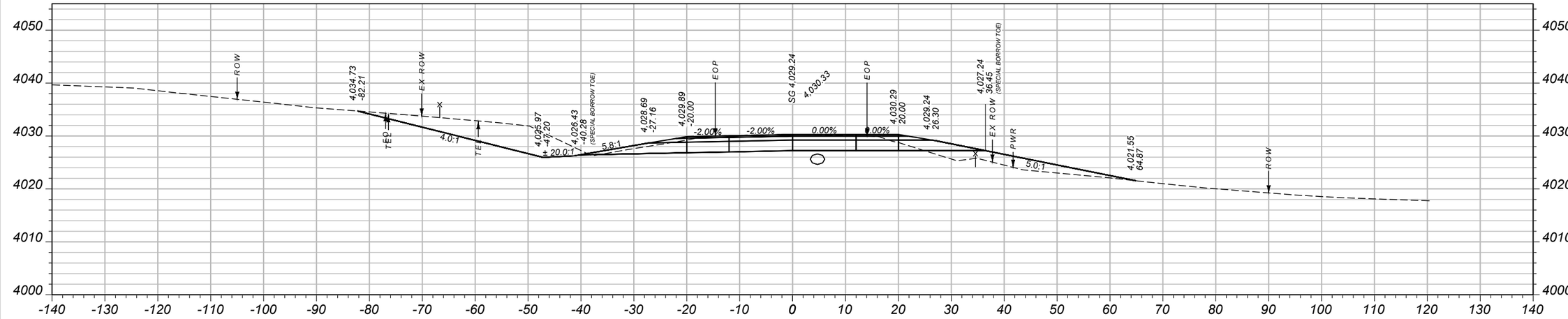
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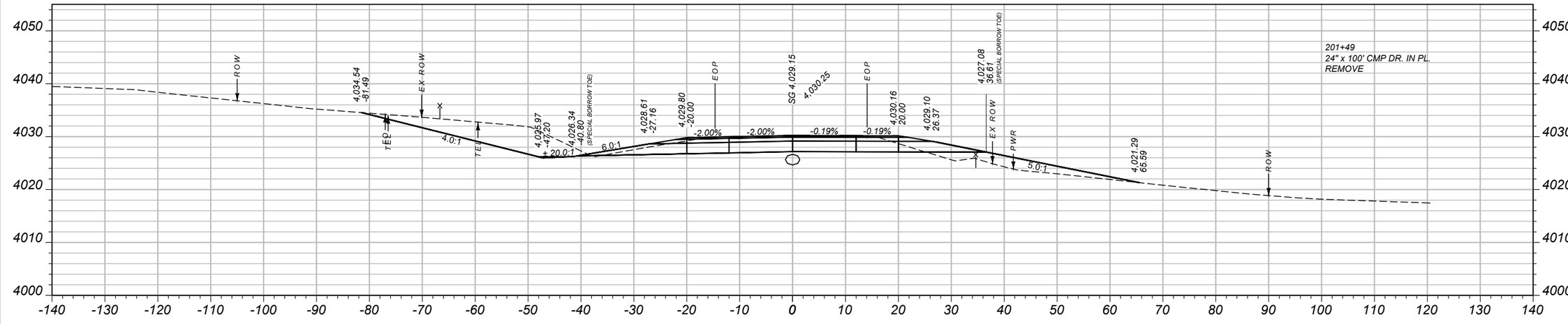
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 49 CY STA 201+54.00 FV: 10 CY



CV: 134 CY STA 201+48.91 FV: 21 CY

SHEET NO.
XS30

CROSS SECTIONS - SITE 2

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

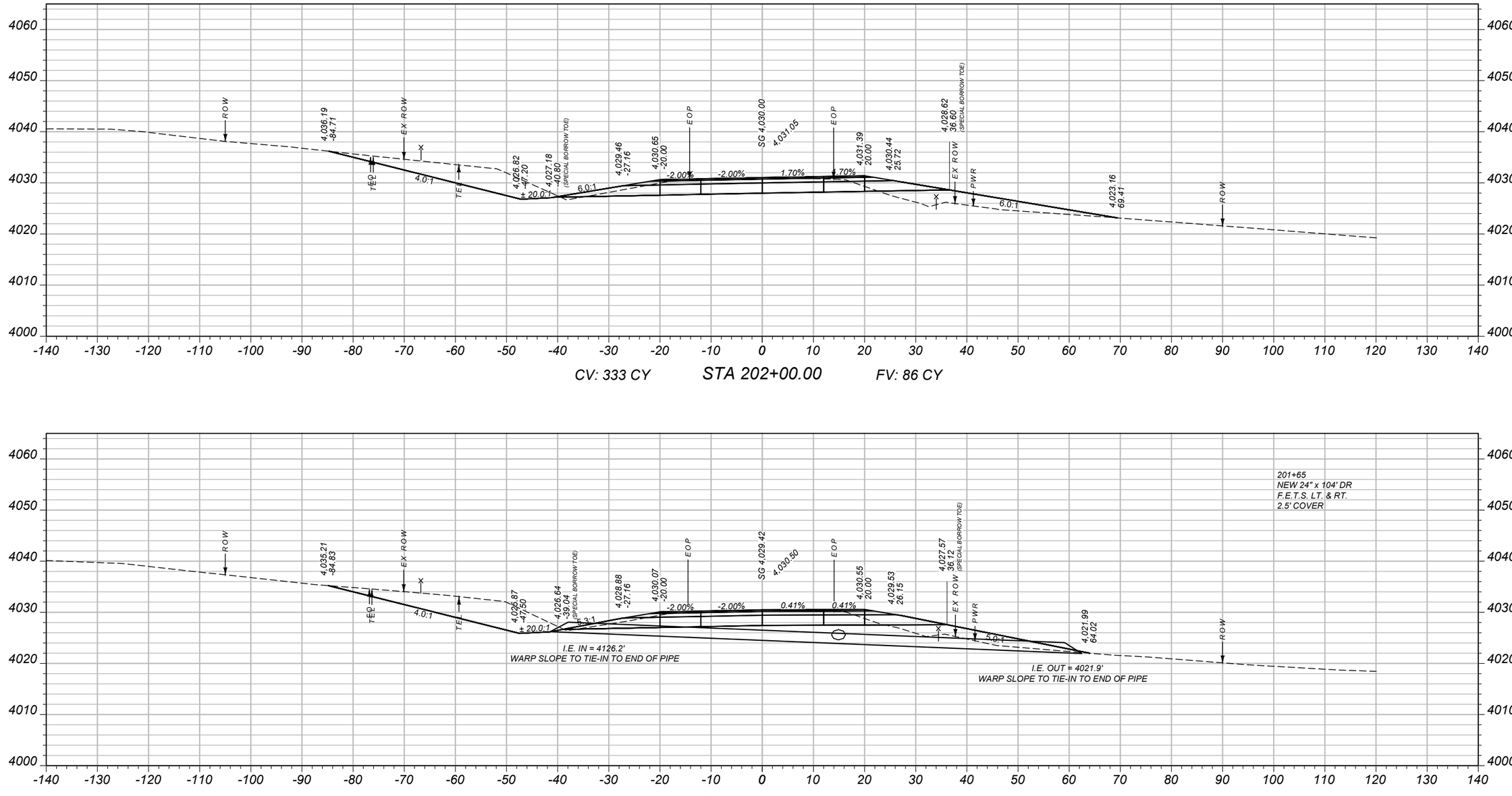
MONTANA Department of Transportation

SITE 2

11/20/2024 1:44 PM

9422000RDXSF002_NEW.DWG

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3



SHEET NO.
XS31

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	
REVIEWED BY	J. BROTZLER	07/2024	
CHECKED BY	T. JOHNSON	04/2024	

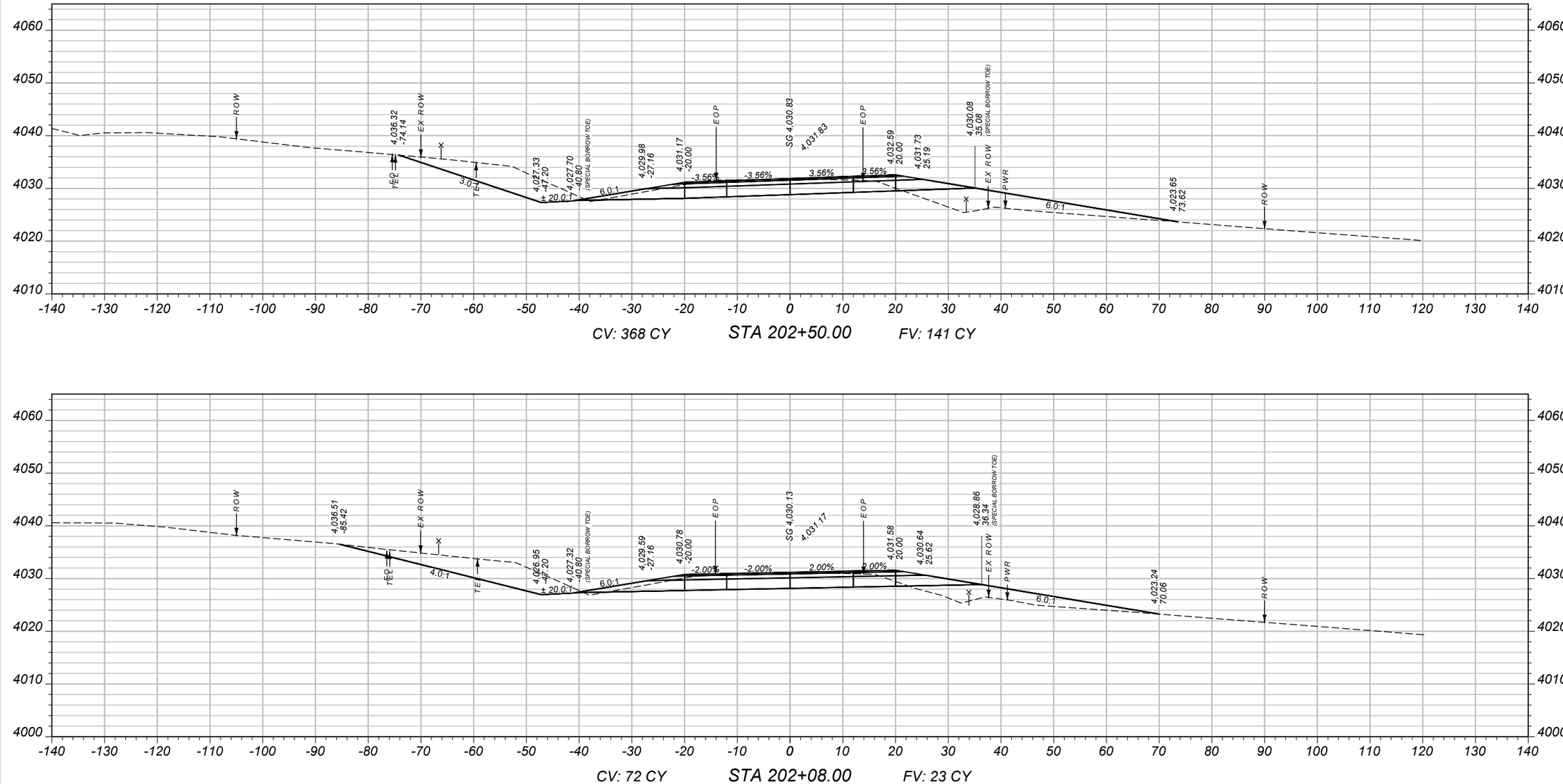
9422000RDXSF002_NEW.DWG

MONTANA
Department of Transportation

SITE 2

11/20/2024 1:44 PM

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3



SHEET NO.
XS32

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

9422000RDXSF002_NEW.DWG

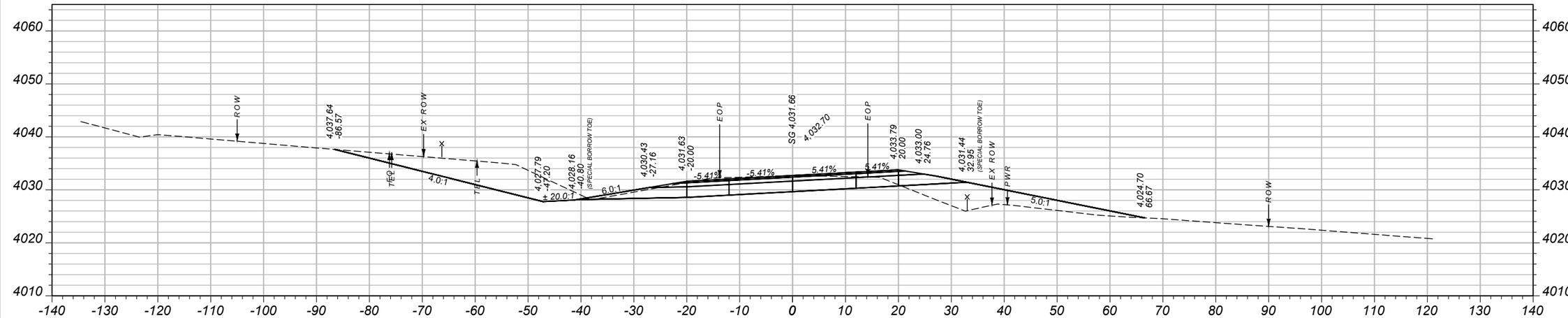
MONTANA
Department of Transportation

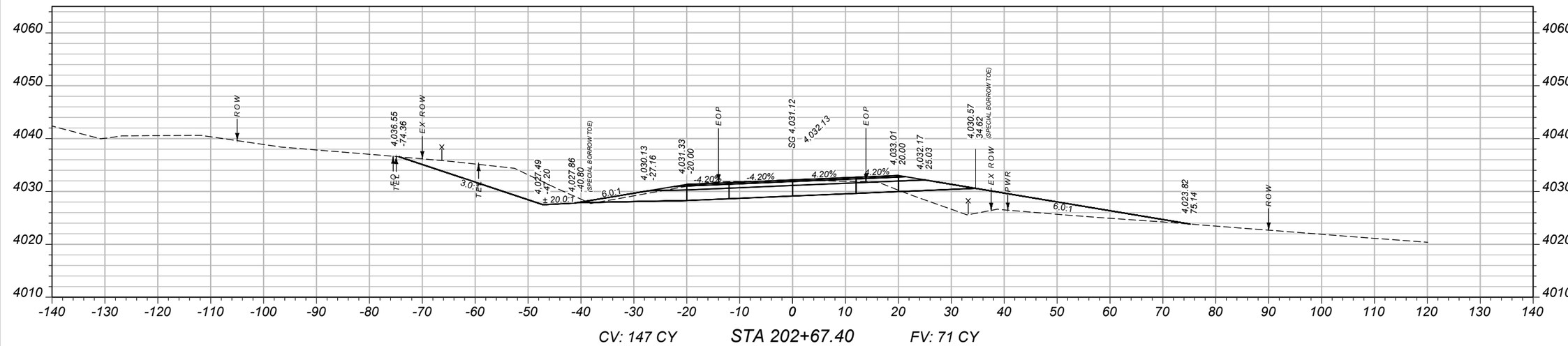
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11/20/2024 1:44 PM

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY





SHEET NO.
XS33

CROSS SECTIONS - SITE 2

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

DESIGNED BY		REVIEWED BY		CHECKED BY	
A. BOSE	07/2024	J. BROTZLER	07/2024	T. JOHNSON	04/2024

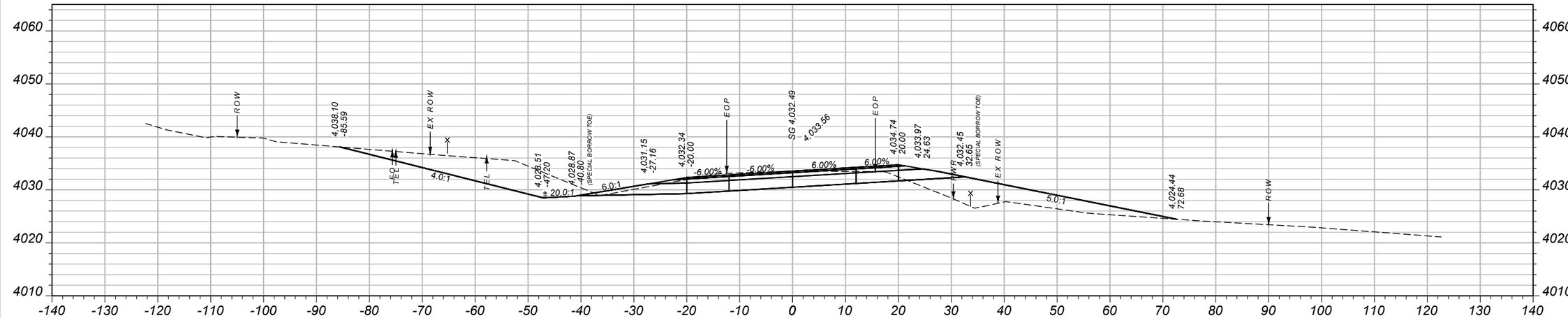
MONTANA
Department of Transportation

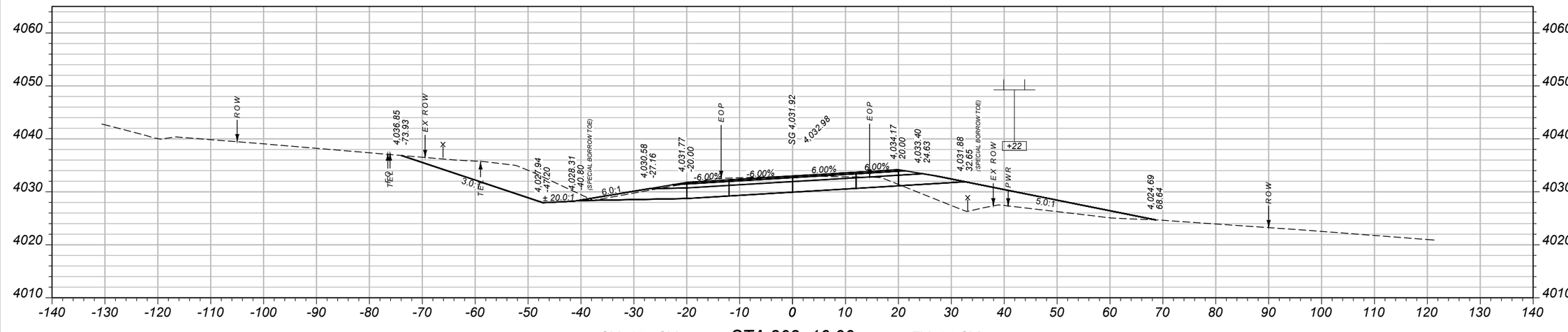
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11/20/2024 1:44 PM
9422000RDXSF002_NEW.DWG

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY





SHEET NO.
XS34

CROSS SECTIONS - SITE 2

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

DESIGNED BY		REVIEWED BY		CHECKED BY	
A. BOSE	07/2024	J. BROTZLER	07/2024	T. JOHNSON	04/2024

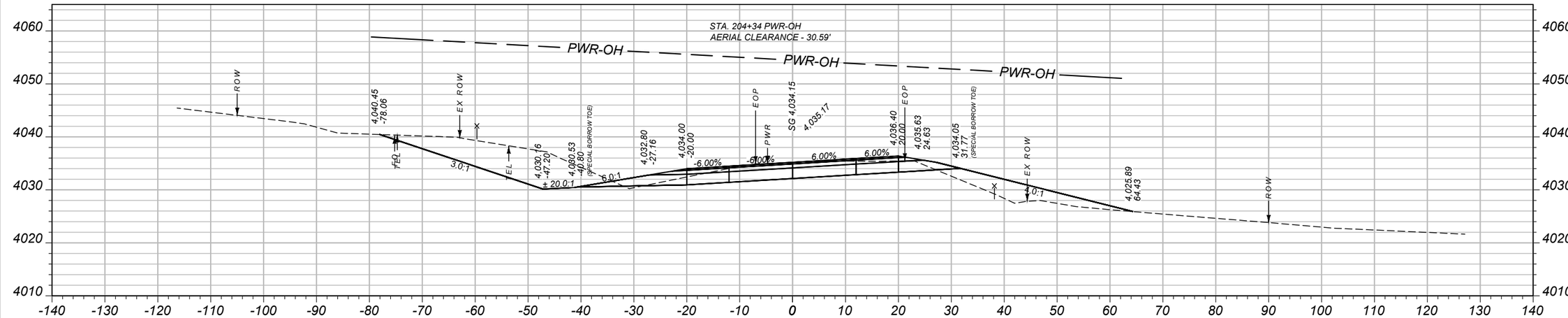
MONTANA
Department of Transportation

SITE 2

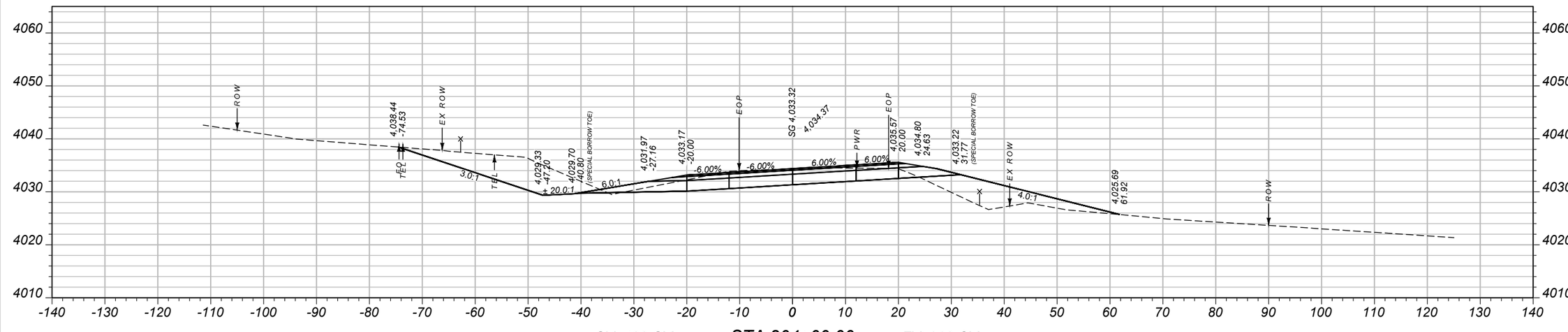
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 508 CY STA 204+50.00 FV: 157 CY



CV: 488 CY STA 204+00.00 FV: 202 CY

SHEET NO.
XS35

CROSS SECTIONS - SITE 2

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

DESIGNED BY	REVIEWED BY	CHECKED BY
A. BOSE 07/2024	J. BROTZLER 07/2024	T. JOHNSON 04/2024

942200RDXSF002_NEW.DWG

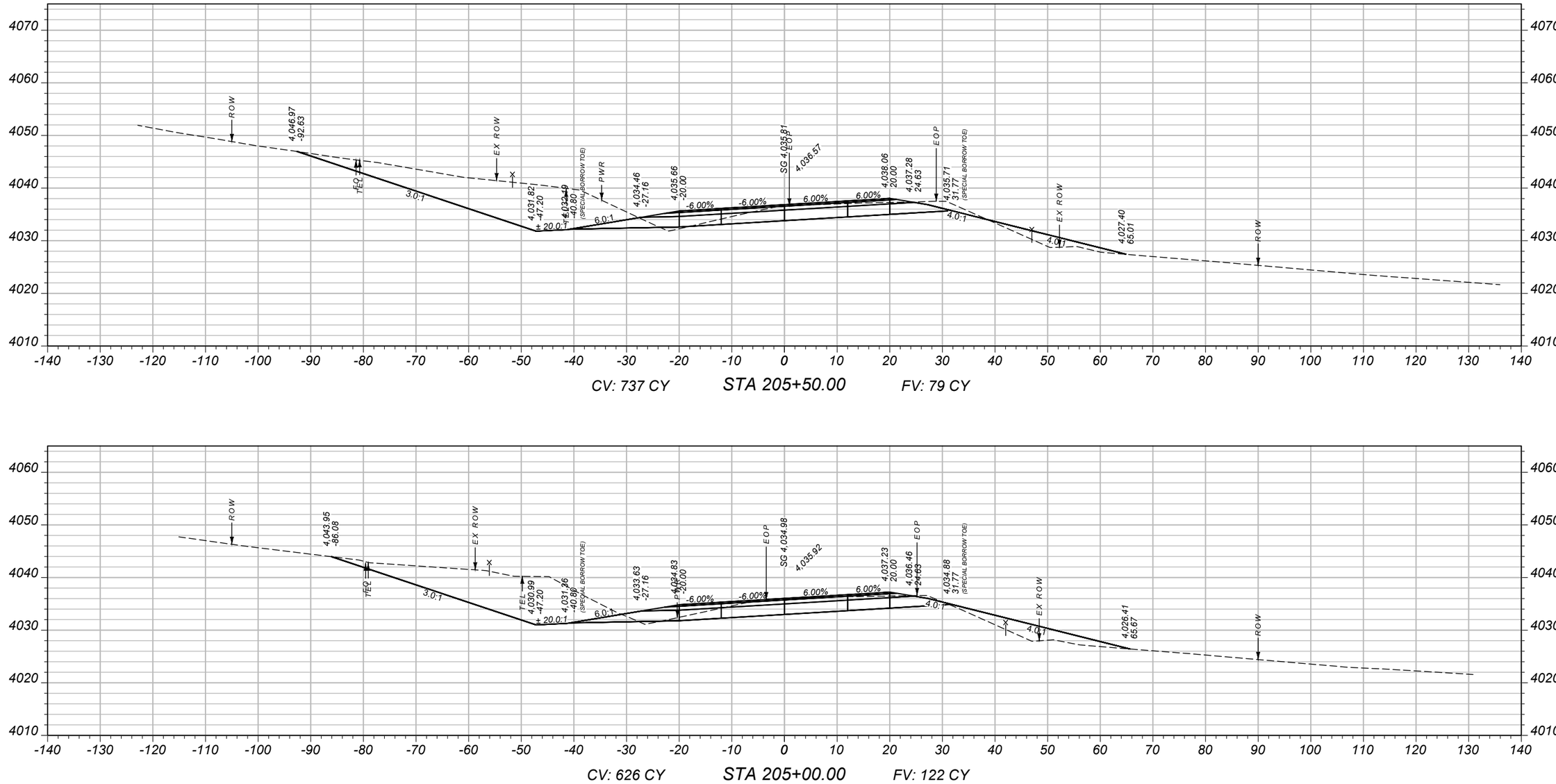
MONTANA
Department of Transportation

SITE 2

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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



SHEET NO.
XS36

CROSS SECTIONS - SITE 2

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

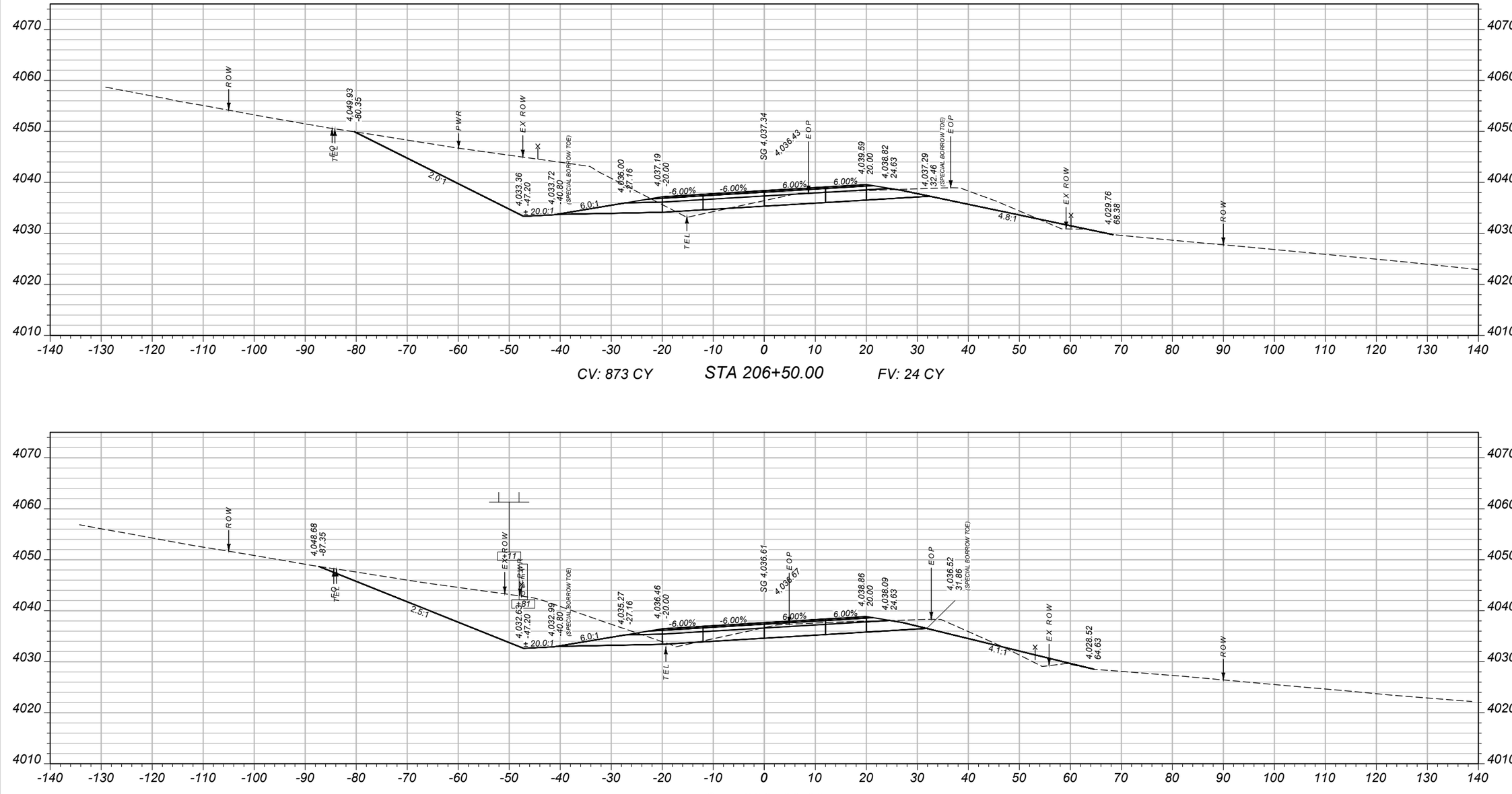
DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
A. BOSE	07/2024	J. BROTZLER	07/2024	T. JOHNSON	04/2024

MONTANA
Department of Transportation

SITE 2

9422000RDXSF002_NEW.DWG
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3



SHEET NO.
XS37

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

9422000RDXSF002_NEW.DWG

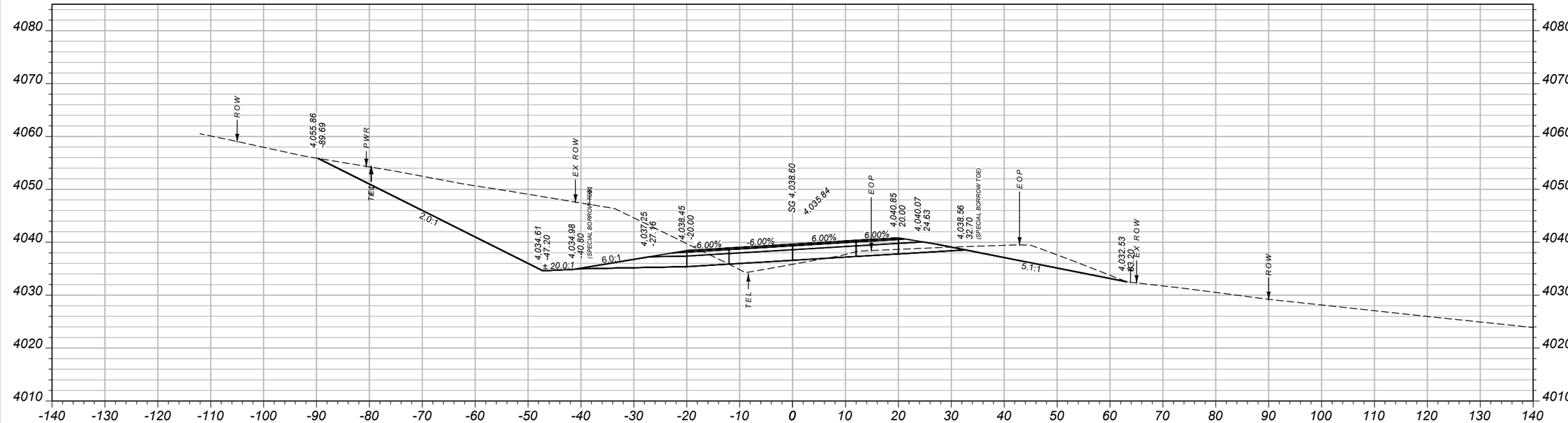
MONTANA
Department of Transportation

SITE 2

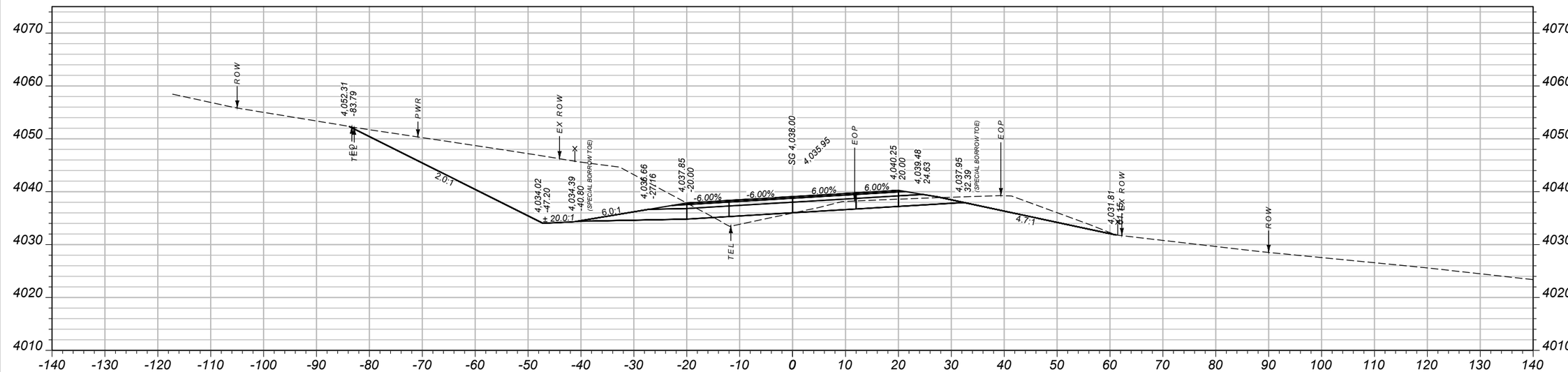
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AWARD COPY



CV: 1134 CY STA 207+50.00 FV: 29 CY



CV: 985 CY STA 207+00.00 FV: 24 CY

SHEET NO.
XS38

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

9422000RDXSF002_NEW.DWG

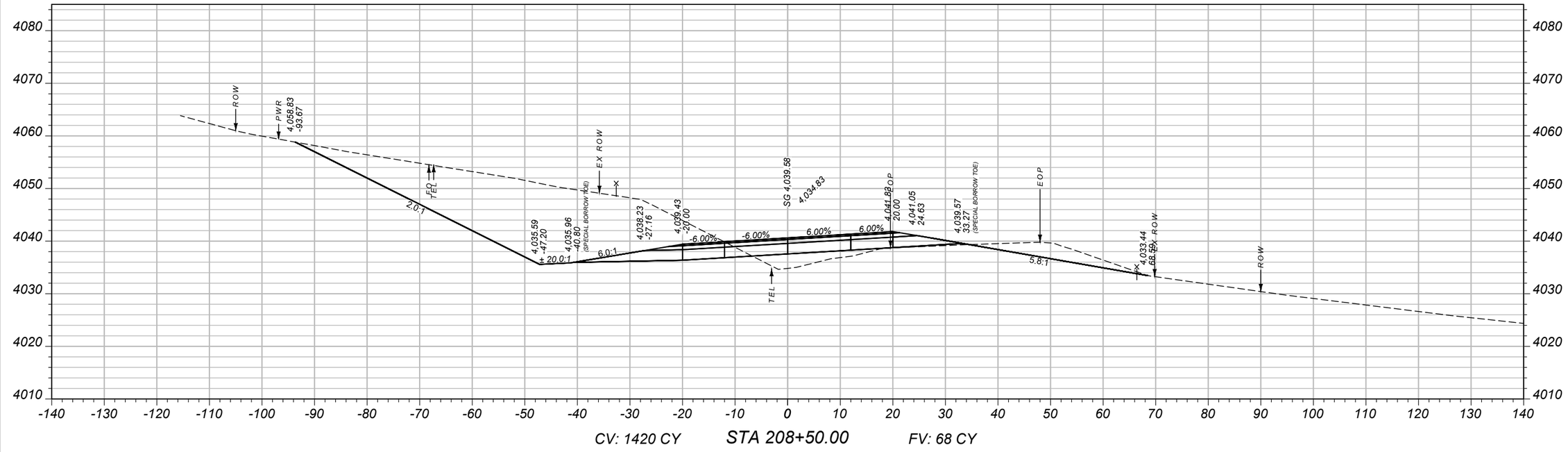
MONTANA Department of Transportation

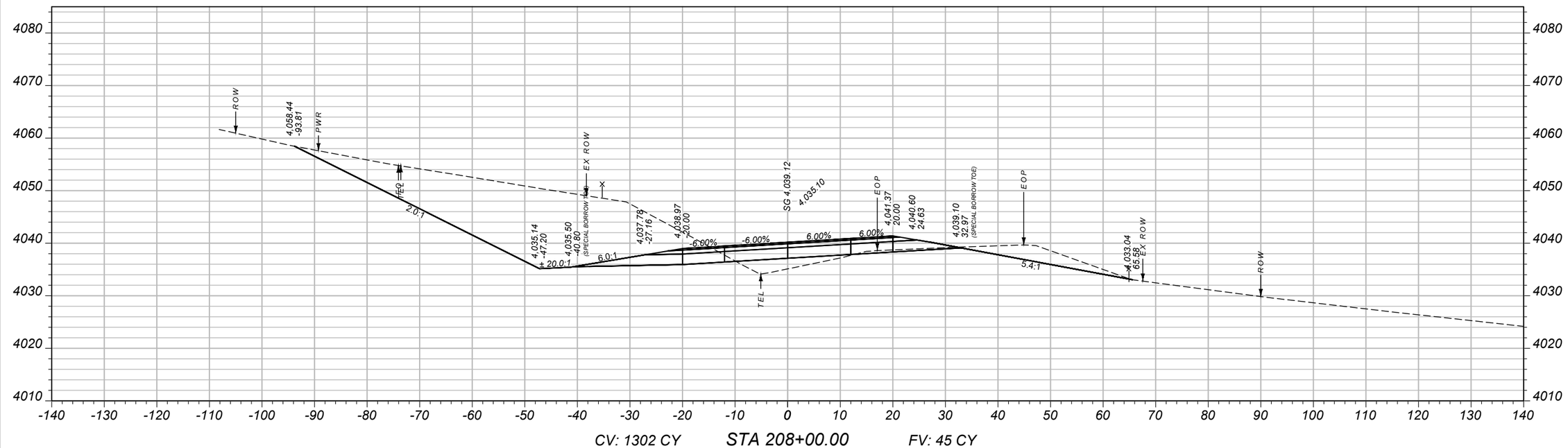
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY





SHEET NO.
XS39

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	07/2024	CHECKED BY	04/2024
A. BOSE		T. JOHNSON	
REVIEWED BY	07/2024	9422000RDXSF002_NEW.DWG	
J. BROTZLER			

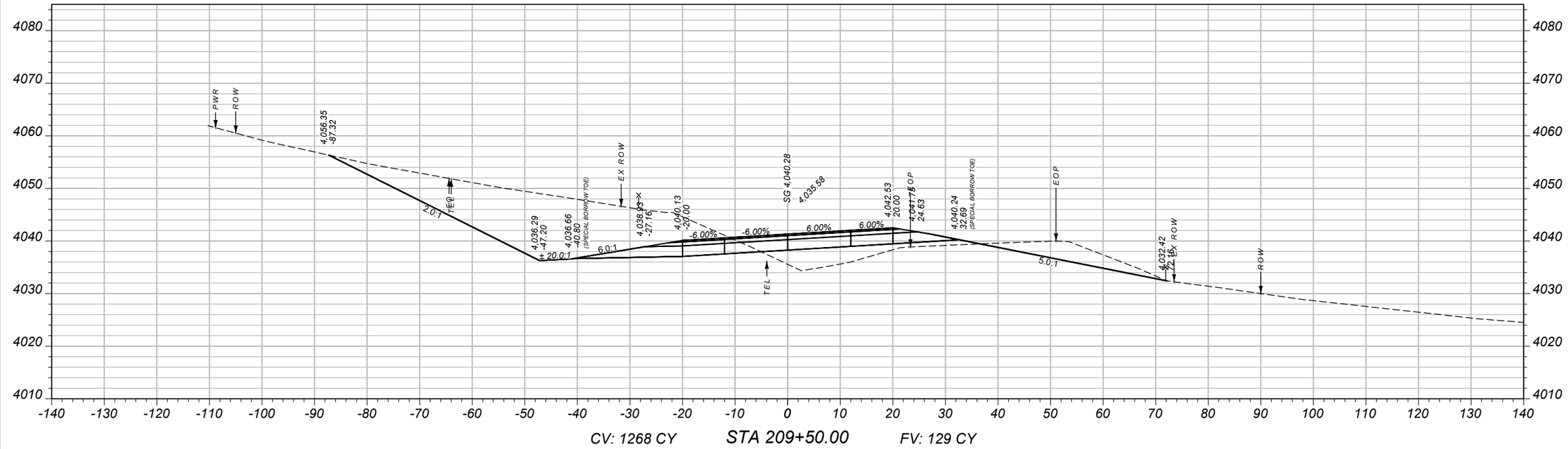
MONTANA
Department of Transportation

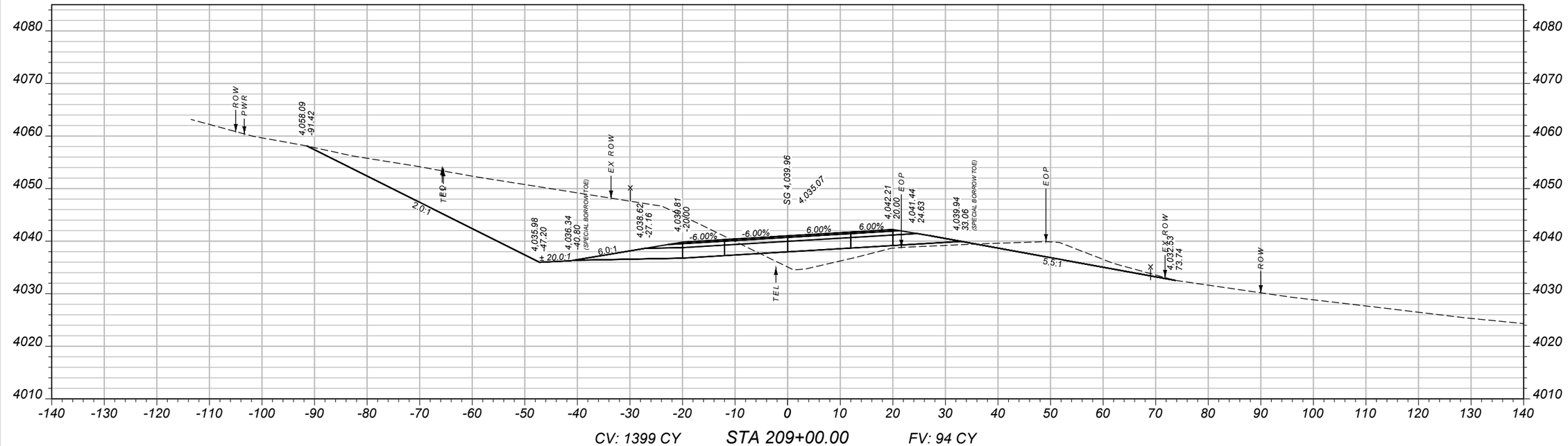
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY





SHEET NO.
XS40

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY		DATE
A. BOSE		07/2024
REVIEWED BY		DATE
J. BROTZLER		07/2024
CHECKED BY		DATE
T. JOHNSON		04/2024

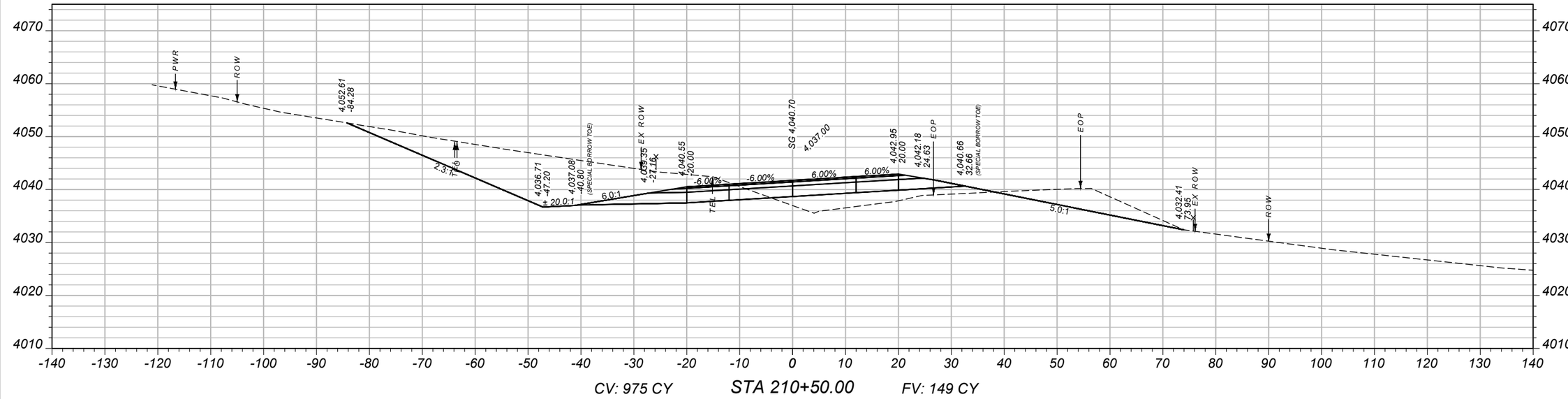
MONTANA
Department of Transportation

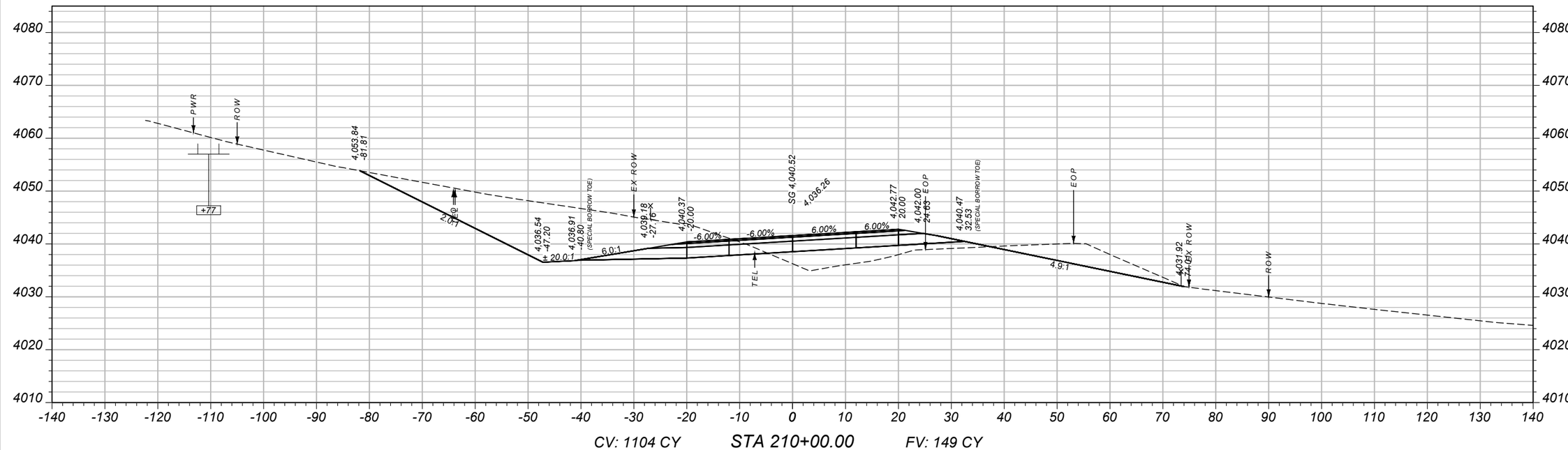
SITE 2

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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3





SHEET NO.
XS41

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024	9422000RDXSF002_NEW.DWG		

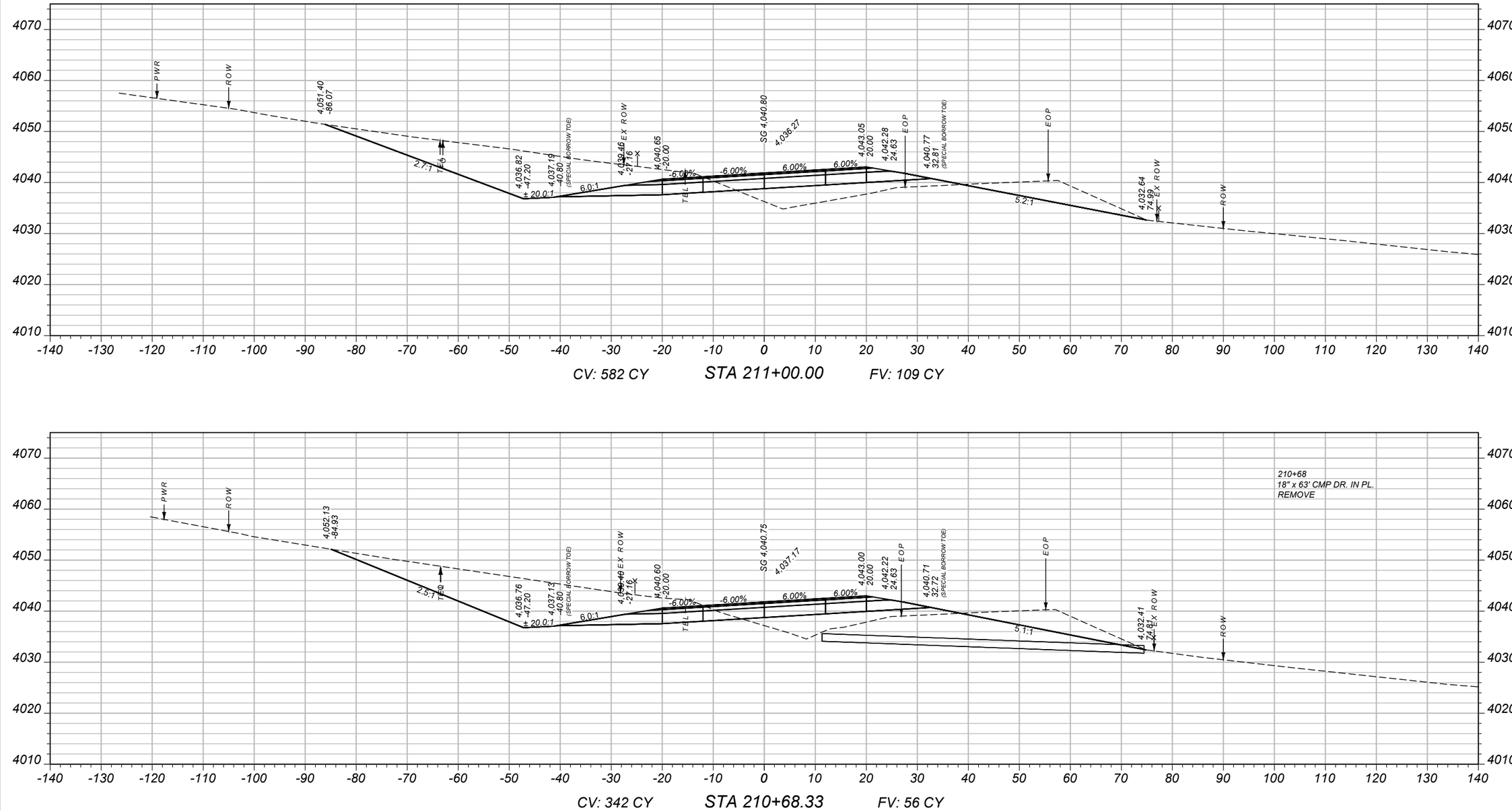
MONTANA
Department of Transportation

SITE 2

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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



SHEET NO.
XS42

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

MONTANA
Department of Transportation

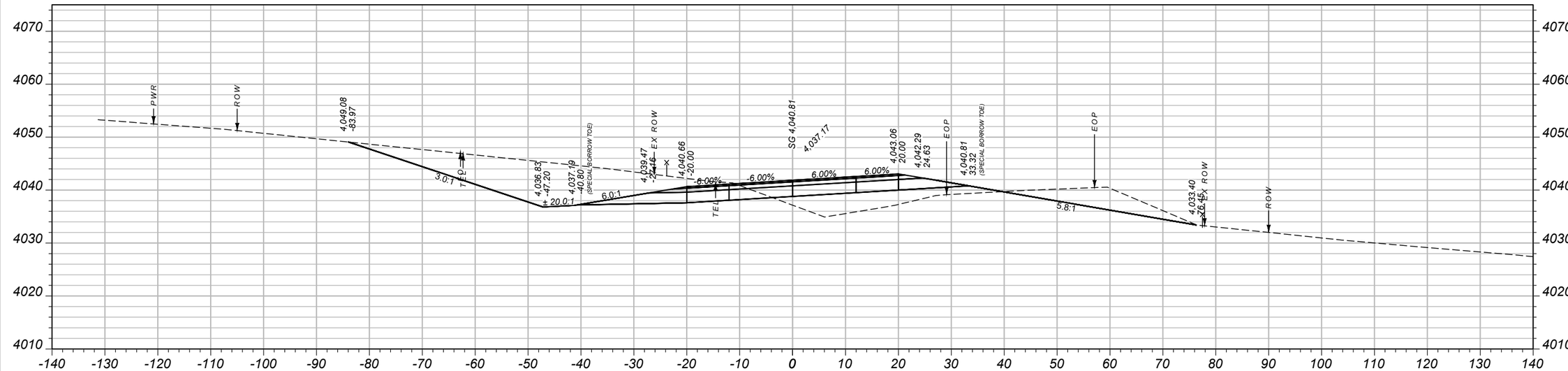
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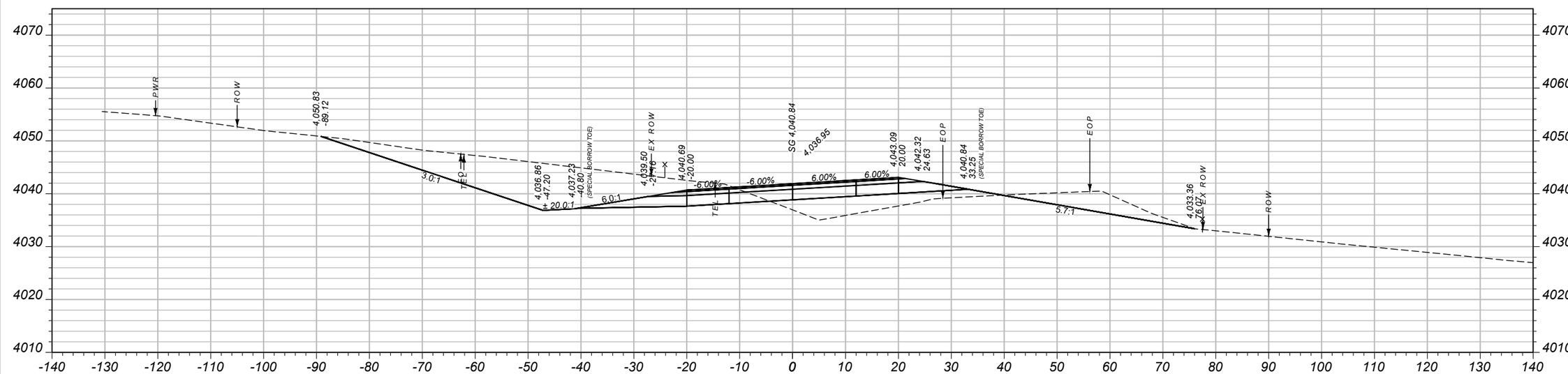
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AWARD COPY



CV: 864 CY STA 212+00.00 FV: 180 CY



CV: 894 CY STA 211+50.00 FV: 179 CY

SHEET NO.
XS43

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	
REVIEWED BY	J. BROTZLER	07/2024	
CHECKED BY	T. JOHNSON	04/2024	

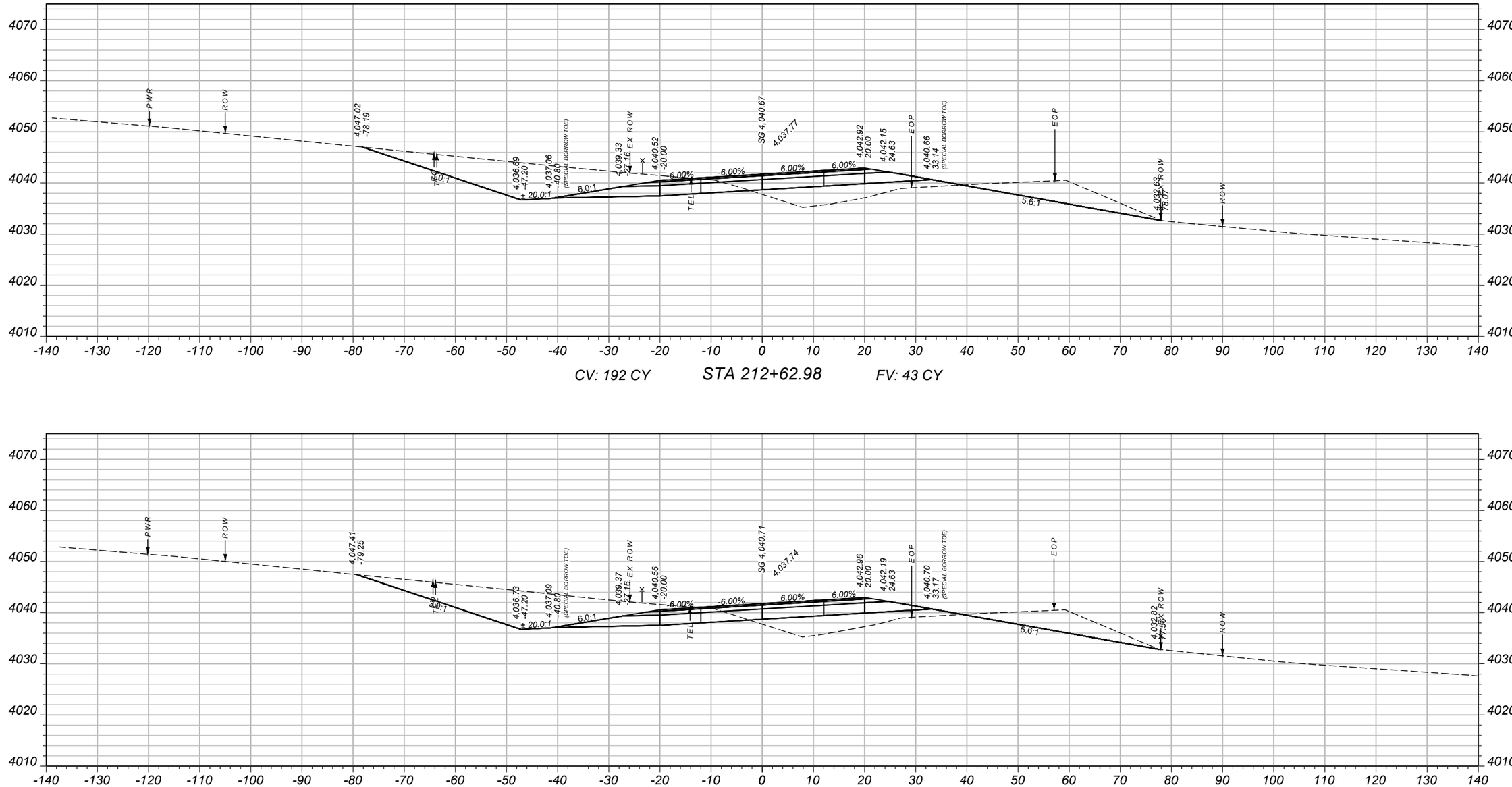
MONTANA
Department of Transportation

SITE 2

9422000RDXSF002_NEW.DWG

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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3



SHEET NO.
XS44

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	
REVIEWED BY	J. BROTZLER	07/2024	
CHECKED BY	T. JOHNSON	04/2024	

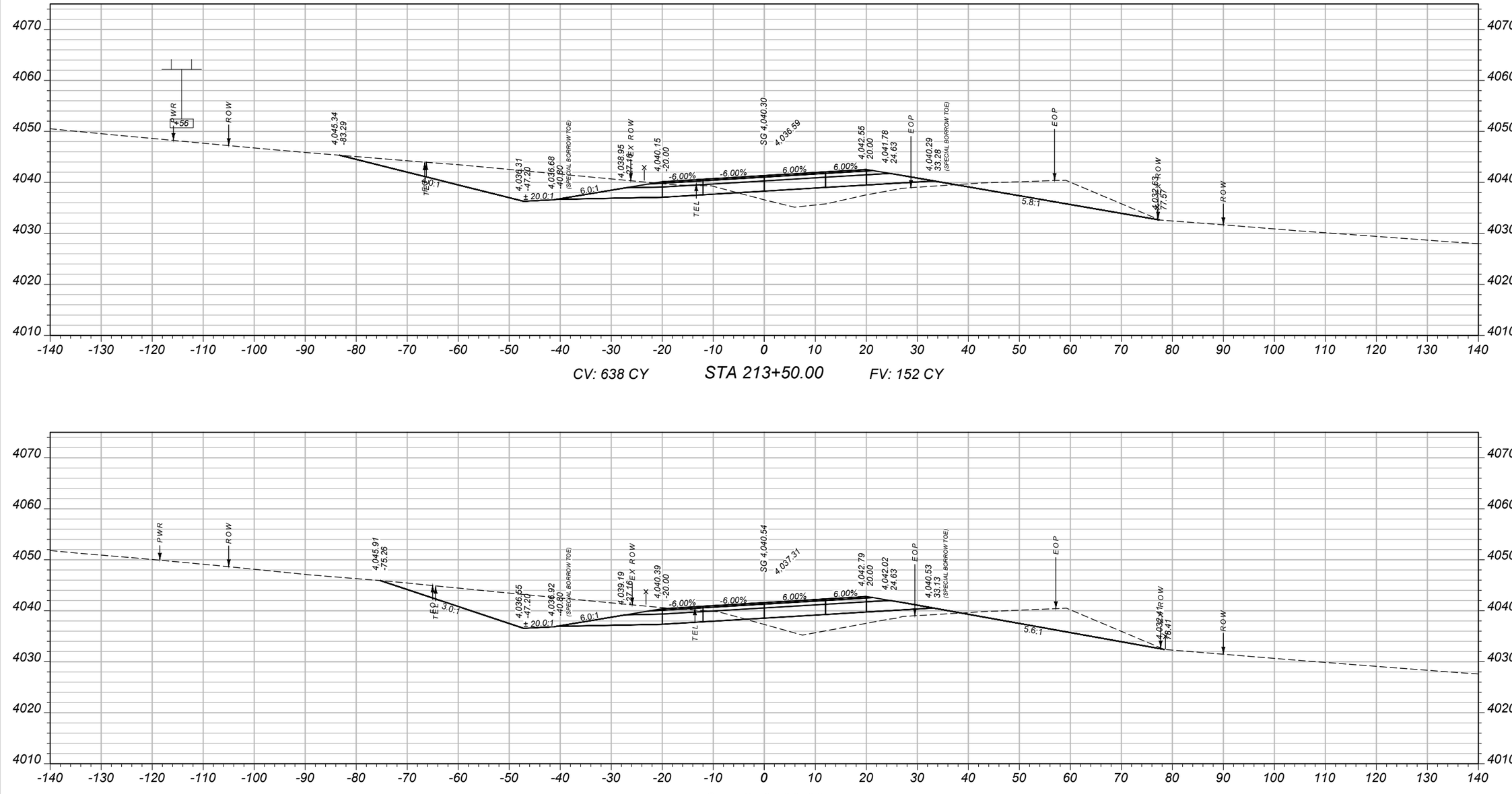
MONTANA
Department of Transportation

SITE 2

11/20/2024 1:44 PM

9422000RDXSF002_NEW.DWG

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3



SHEET NO.
XS45

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

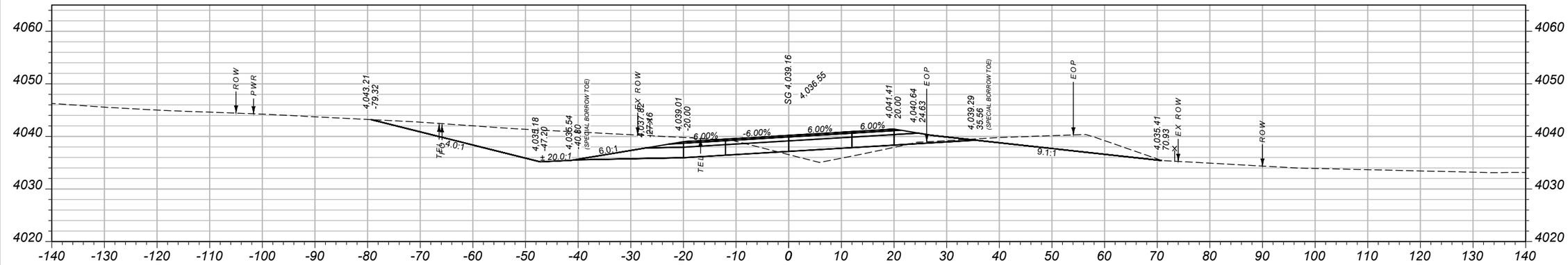
DESIGNED BY	A. BOSE	07/2024	REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024	9422000RDXSF002_NEW.DWG		

MONTANA
Department of Transportation

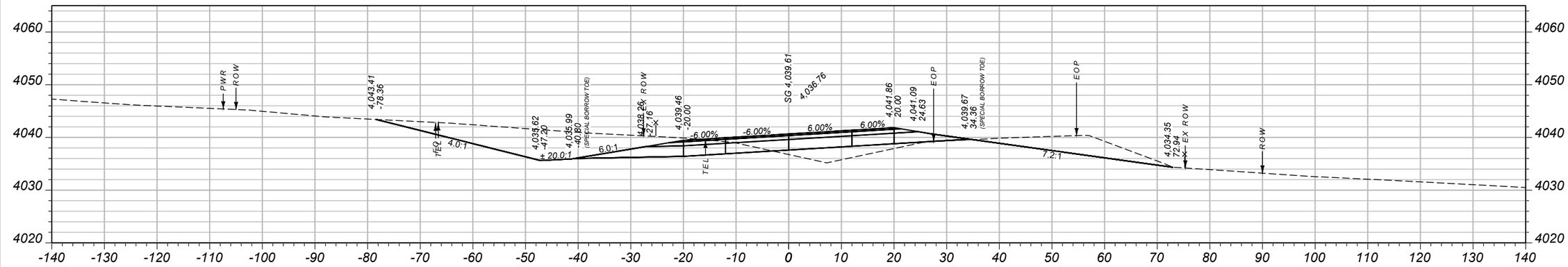
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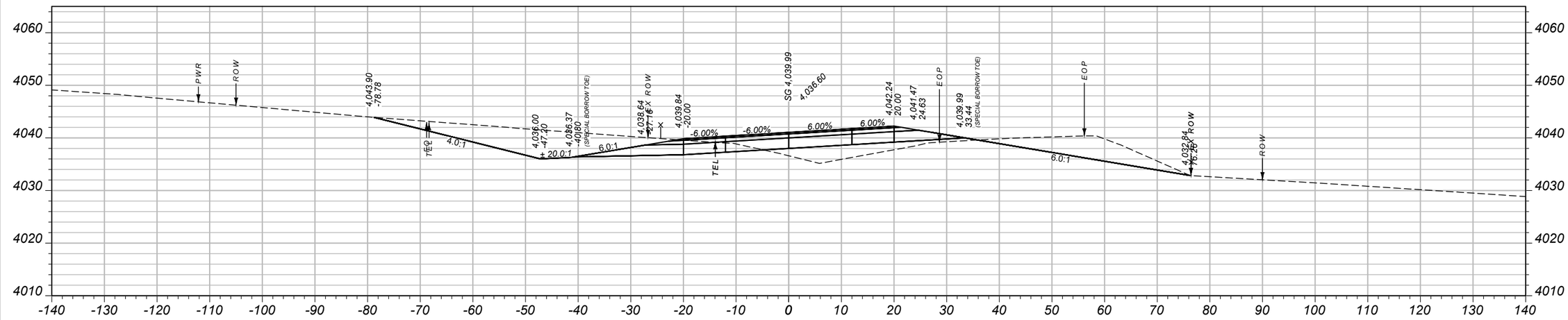
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CV: 611 CY STA 215+00.00 FV: 68 CY



CV: 593 CY STA 214+50.00 FV: 96 CY



CV: 608 CY STA 214+00.00 FV: 131 CY

SHEET NO.
XS46

CROSS SECTIONS - SITE 2

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
A. BOSE	07/2024	J. BROTZLER	07/2024	T. JOHNSON	04/2024

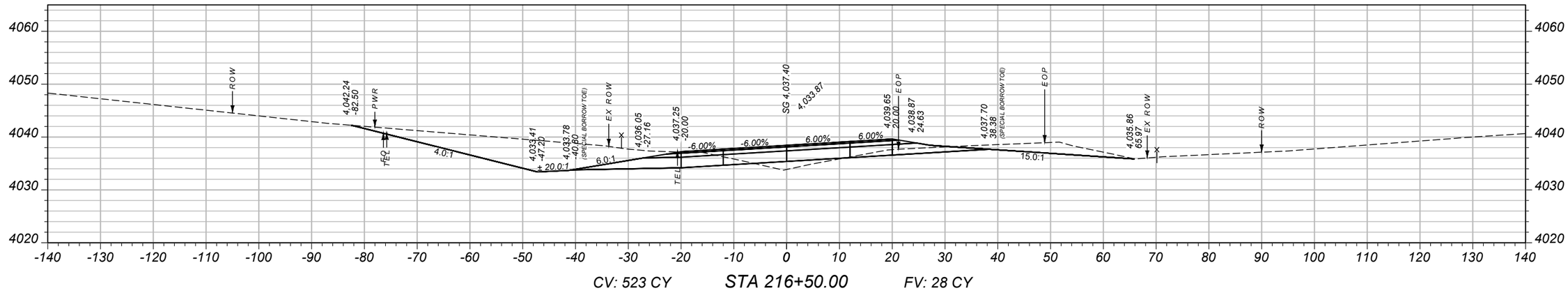
MONTANA
Department of Transportation

SITE 2

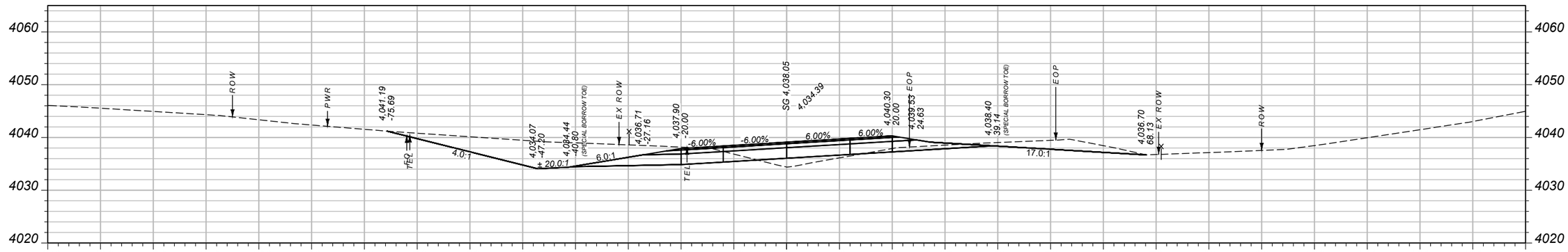
11/20/2024 1:44 PM
9422000RDXSF002_NEW.DWG

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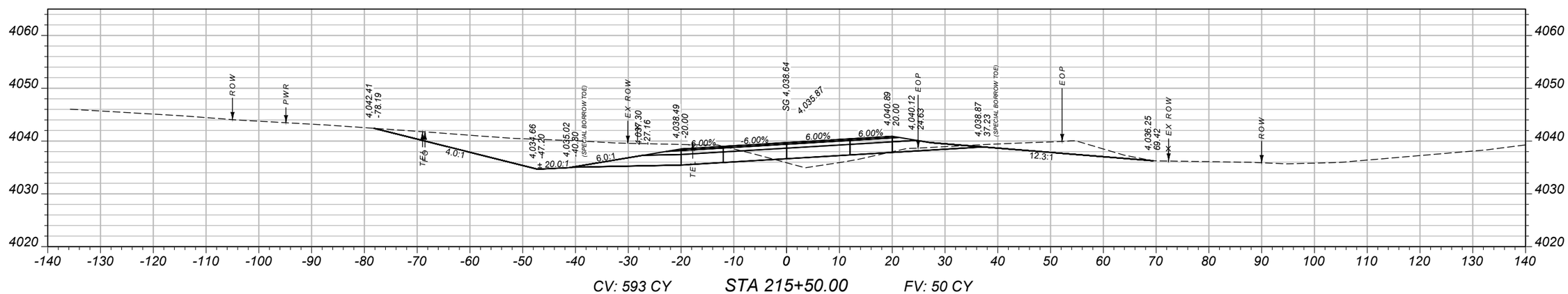
AWARD COPY



CV: 523 CY STA 216+50.00 FV: 28 CY



CV: 526 CY STA 216+00.00 FV: 37 CY



CV: 593 CY STA 215+50.00 FV: 50 CY

SHEET NO.
XS47

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024	9422000RDXSF002_NEW.DWG		

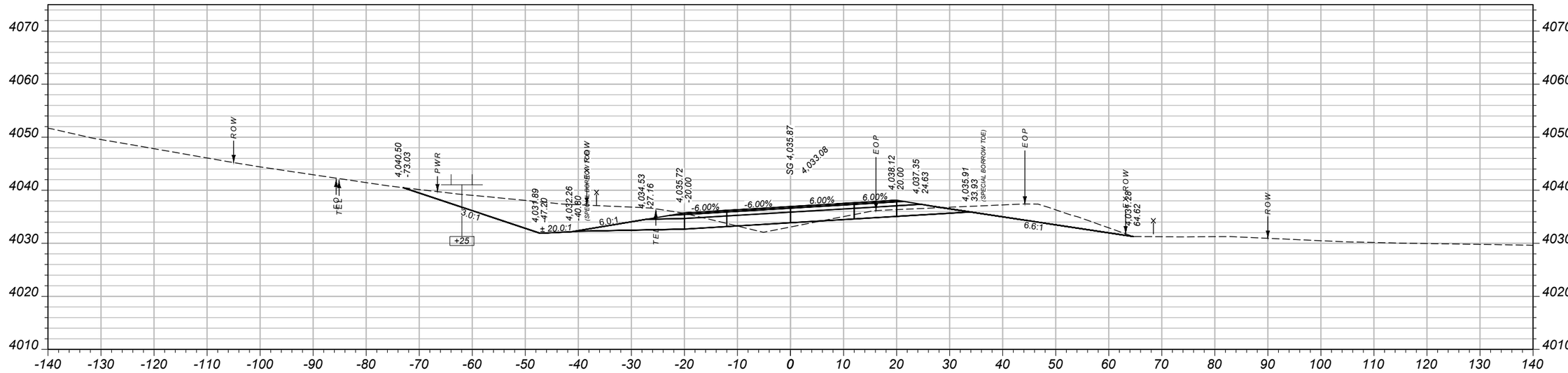
MONTANA Department of Transportation

SITE 2

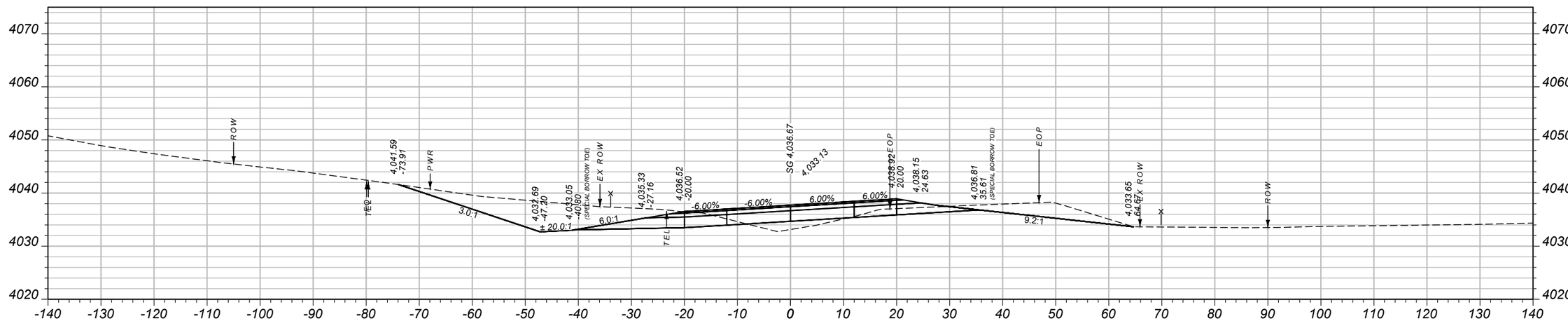
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 537 CY STA 217+50.00 FV: 28 CY



CV: 536 CY STA 217+00.00 FV: 30 CY

SHEET NO.
XS48

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	
REVIEWED BY	J. BROTZLER	07/2024	
CHECKED BY	T. JOHNSON	04/2024	

MONTANA Department of Transportation

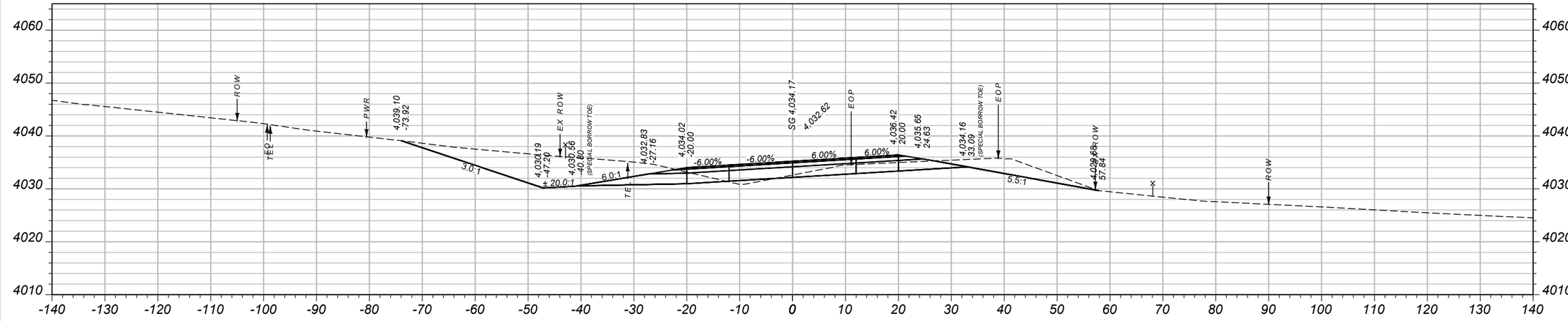
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11/20/2024 1:44 PM

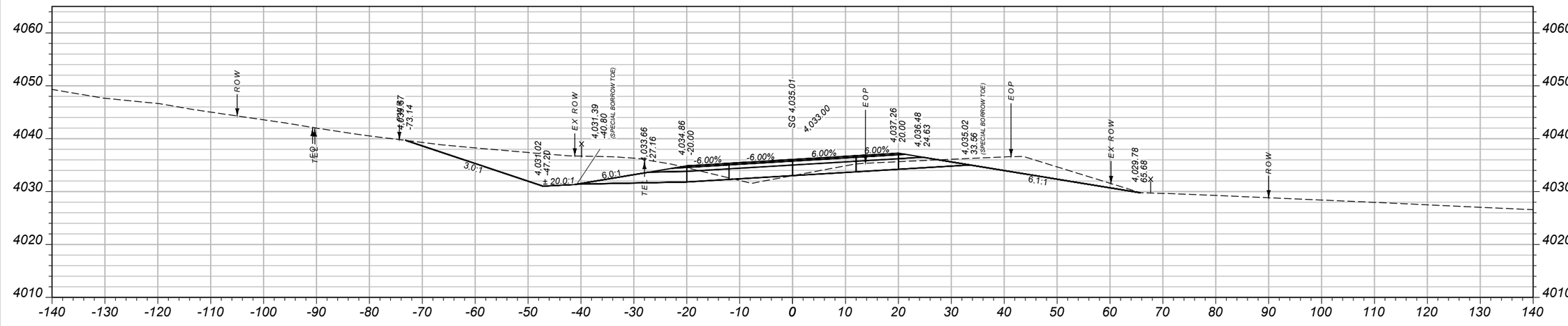
9422000RDXSF002_NEW.DWG

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 524 CY STA 218+46.00 FV: 8 CY



CV: 569 CY STA 218+00.00 FV: 16 CY

SHEET NO.
XS49

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	07/2024	A. BOSE	
REVIEWED BY	07/2024	J. BROTZLER	
CHECKED BY	04/2024	T. JOHNSON	

MONTANA Department of Transportation

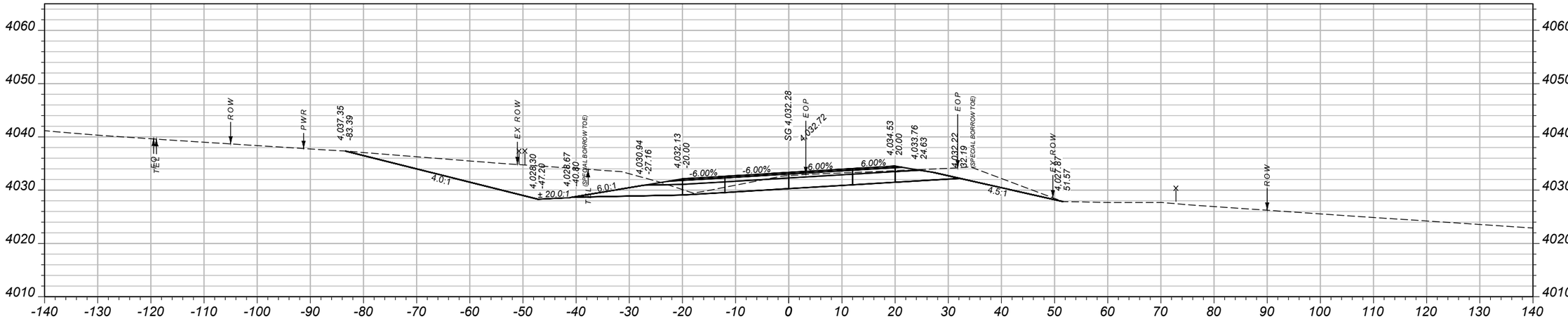
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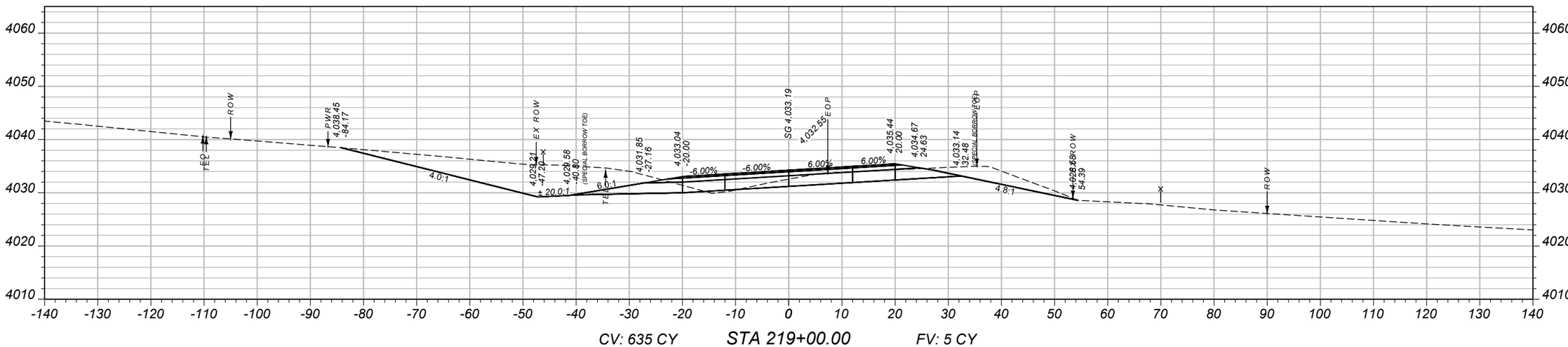
11/20/2024 1:44 PM

9422000RDXSF002_NEW.DWG

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY





SHEET NO.
XS50

CROSS SECTIONS - SITE 2

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

DESIGNED BY		DATE
A. BOSE		07/2024
REVIEWED BY		DATE
J. BROTZLER		07/2024
CHECKED BY		DATE
T. JOHNSON		04/2024

MONTANA
Department of Transportation

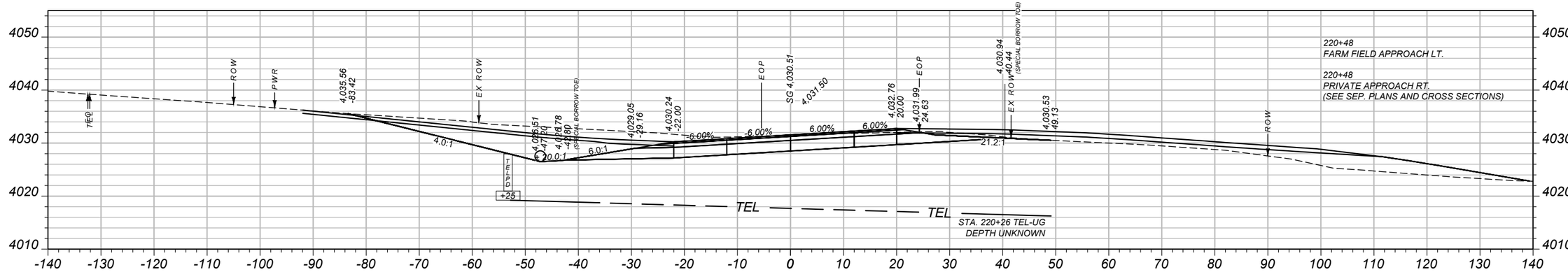
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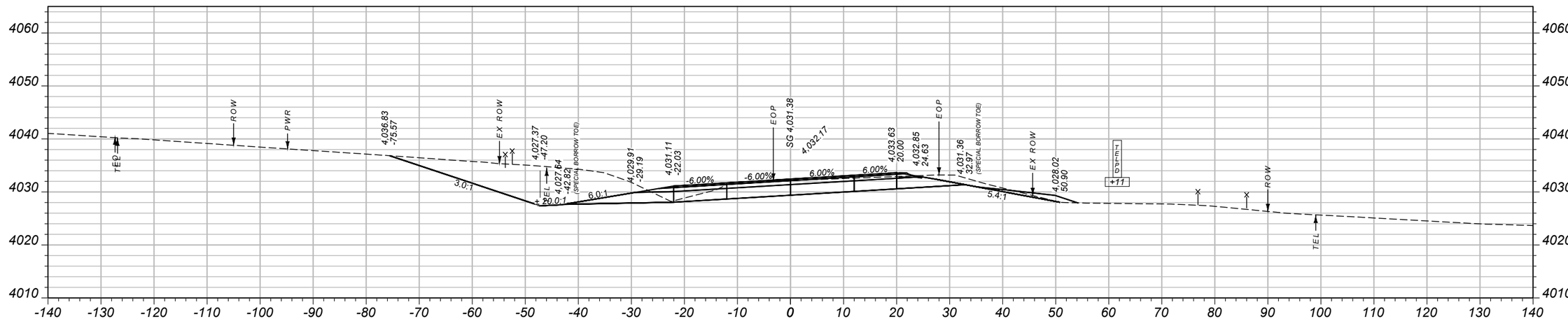
9422000RDXSF002_NEW.DWG

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 683 CY STA 220+47.65 FV: 0 CY



CV: 659 CY STA 220+00.00 FV: 0 CY

SHEET NO.
XS51

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	
REVIEWED BY	J. BROTZLER	07/2024	
CHECKED BY	T. JOHNSON	04/2024	

9422000RDXSF002_NEW.DWG

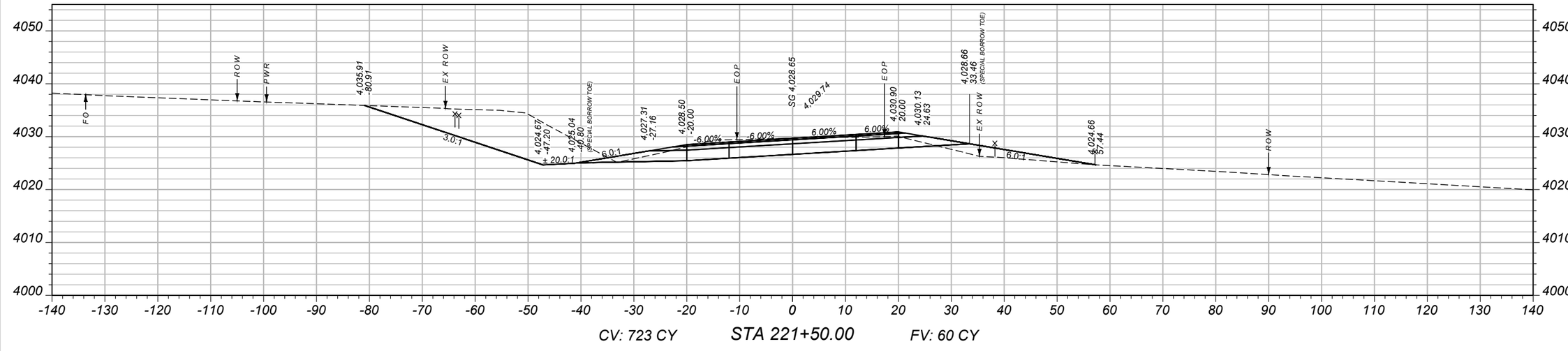
MONTANA Department of Transportation

SITE 2

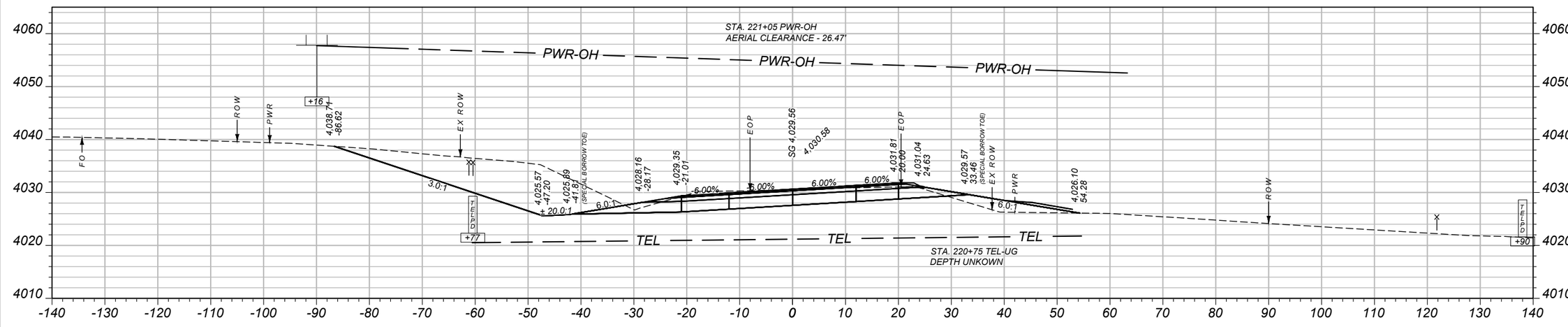
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AWARD COPY



CV: 723 CY STA 221+50.00 FV: 60 CY



CV: 813 CY STA 221+00.00 FV: 32 CY

SHEET NO.
XS52

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

MONTANA Department of Transportation

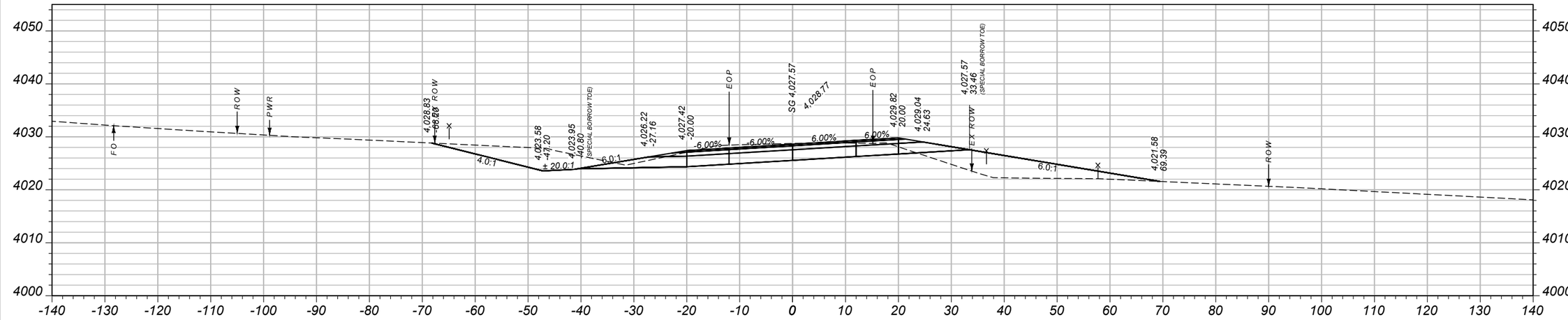
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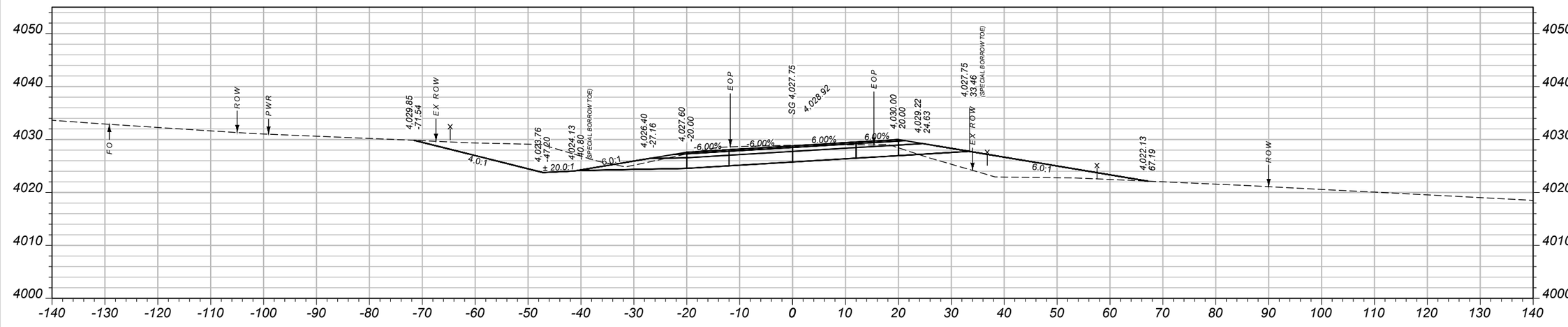
9422000RDXSF002_NEW.DWG

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 86 CY STA 222+09.97 FV: 36 CY



CV: 553 CY STA 222+00.00 FV: 114 CY

SHEET NO.
XS53

CROSS SECTIONS - SITE 2

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

DESIGNED BY	07/2024	A. BOSE	
REVIEWED BY	07/2024	J. BROTZLER	
CHECKED BY	04/2024	T. JOHNSON	

MONTANA Department of Transportation

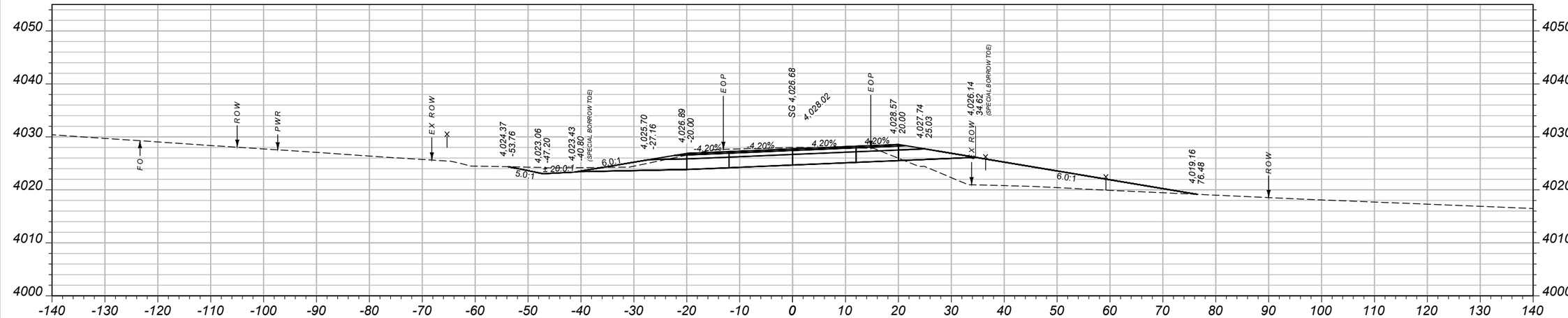
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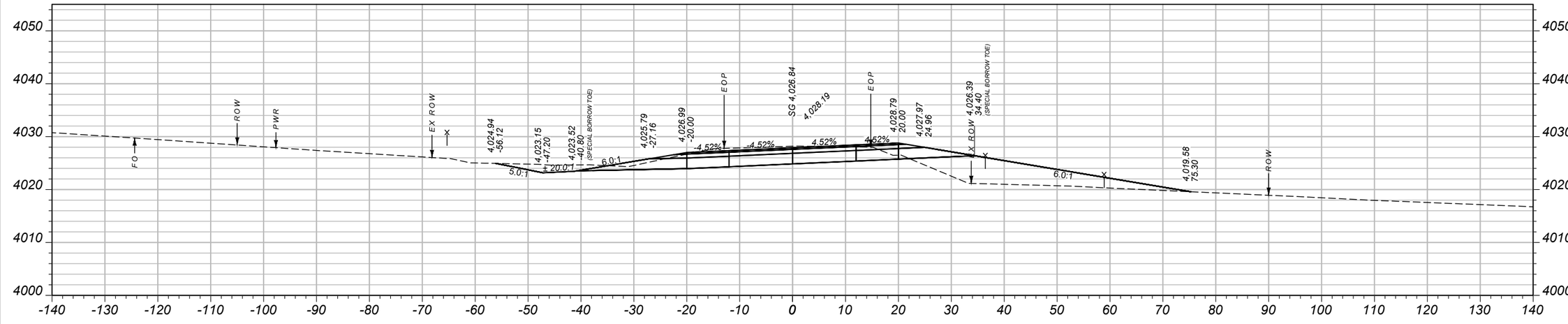
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



CV: 50 CY STA 222+58.57 FV: 45 CY



CV: 285 CY STA 222+50.00 FV: 181 CY

SHEET NO.
XS54

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	
REVIEWED BY	J. BROTZLER	07/2024	
CHECKED BY	T. JOHNSON	04/2024	

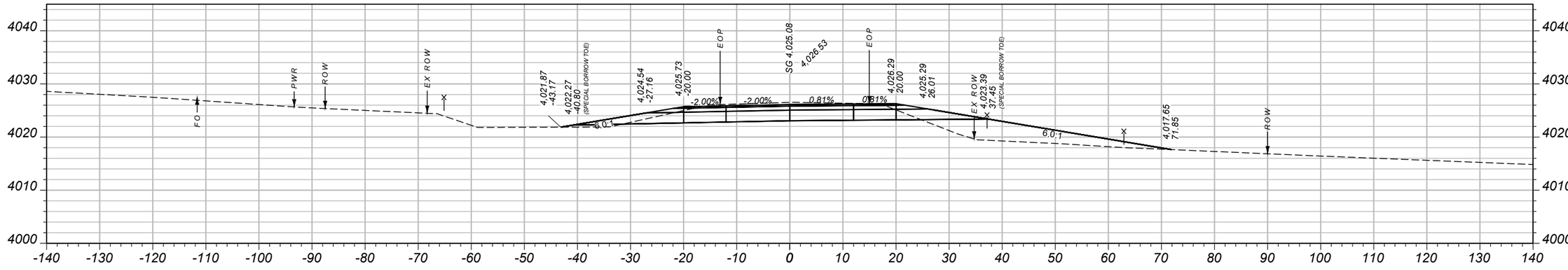
MONTANA Department of Transportation

SITE 2

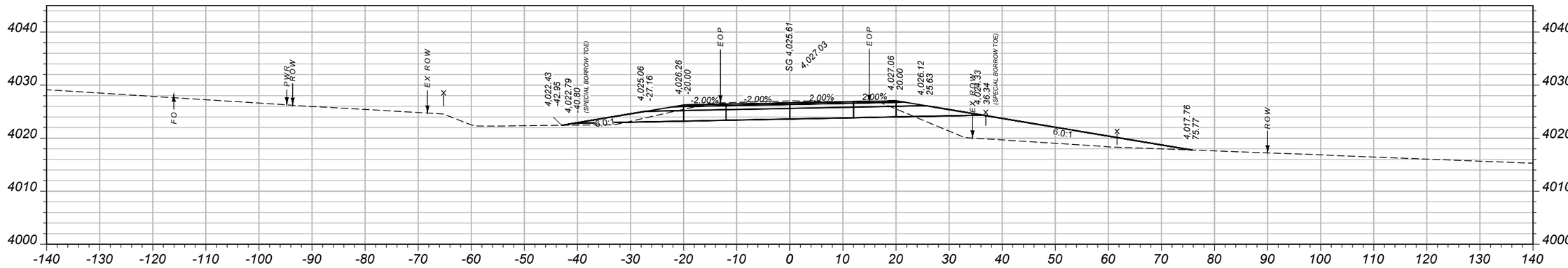
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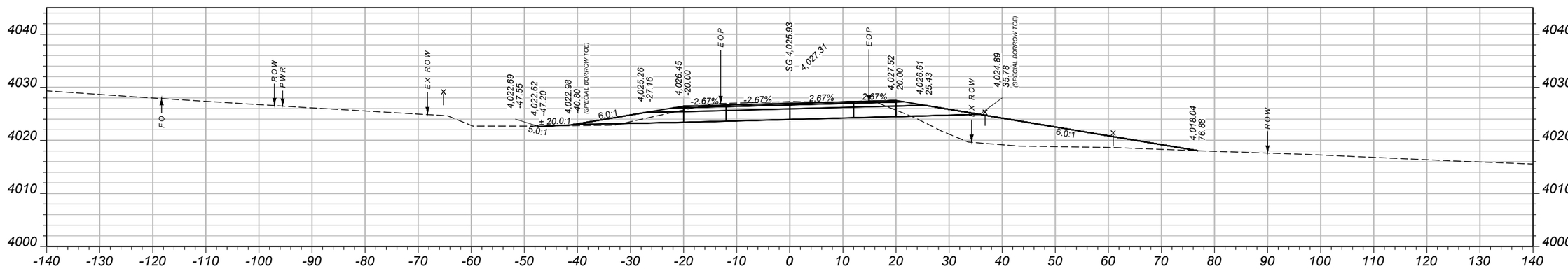
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CV: 168 CY STA 223+50.00 FV: 138 CY



CV: 91 CY STA 223+17.97 FV: 96 CY



CV: 223 CY STA 223+00.00 FV: 230 CY

SHEET NO.
XS55

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	07/2024	CHECKED BY	04/2024
A. BOSE		T. JOHNSON	
REVIEWED BY	07/2024		
J. BROTZLER			

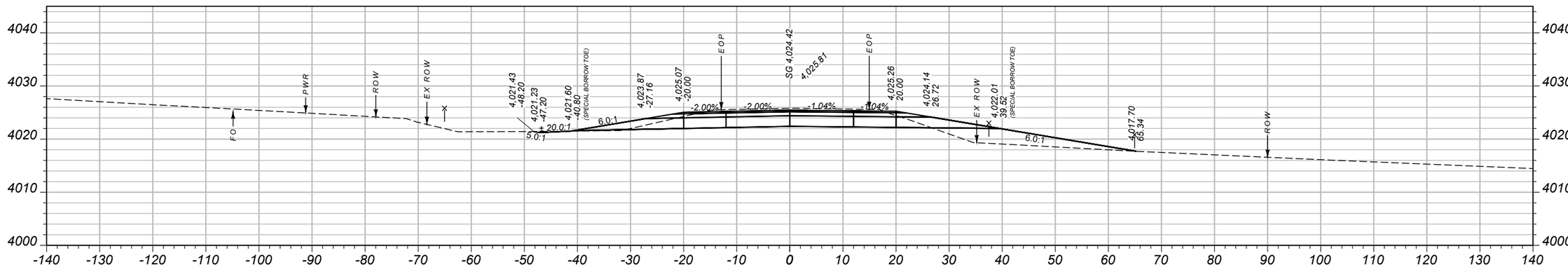
MONTANA
Department of Transportation

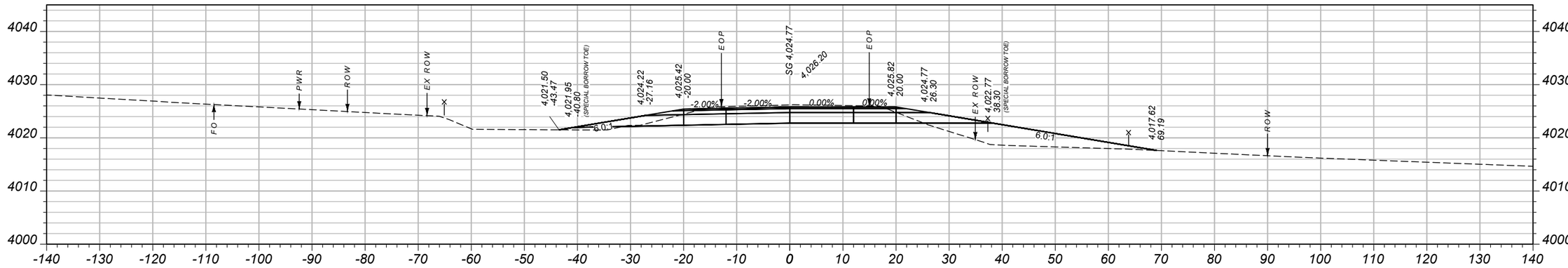
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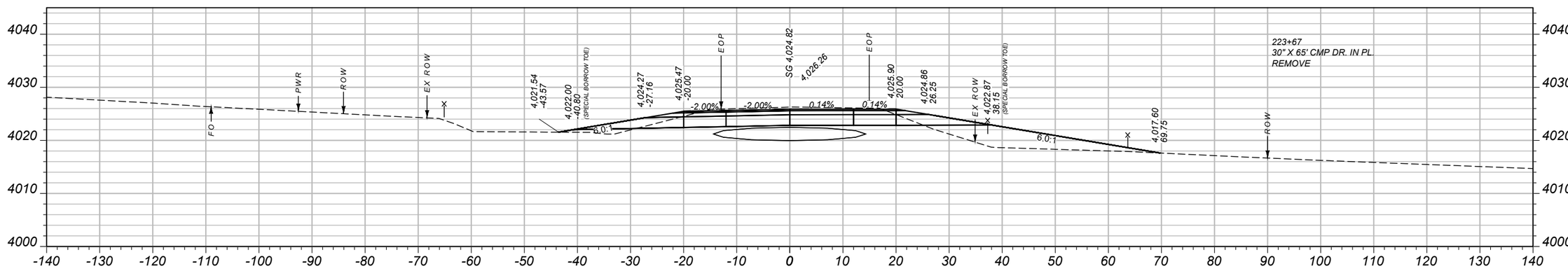
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9422000RDXSF002_NEW.DWG

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3







SHEET NO.
XS56

CROSS SECTIONS - SITE 2

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

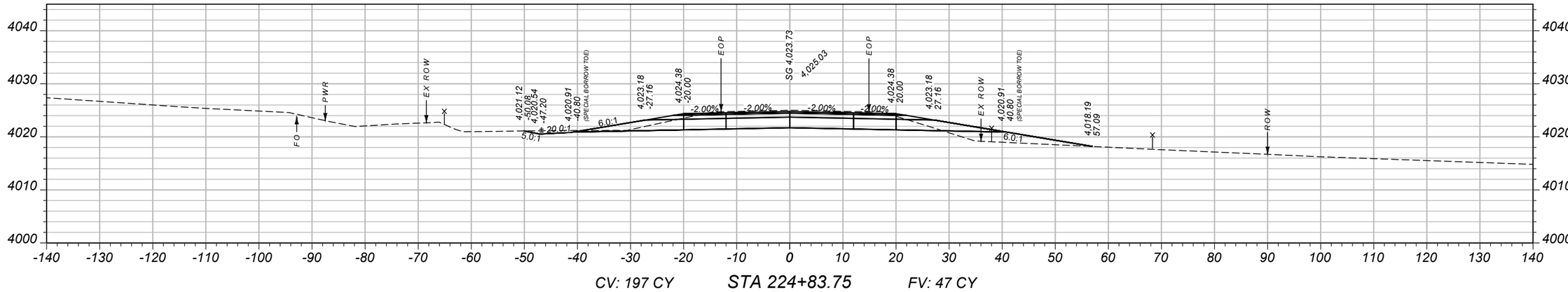
DESIGNED BY	07/2024	REVIEWED BY	07/2024	CHECKED BY	04/2024
A. BOSE		J. BROTZLER		T. JOHNSON	9422000RDXSF002_NEW.DWG

MONTANA
Department of Transportation

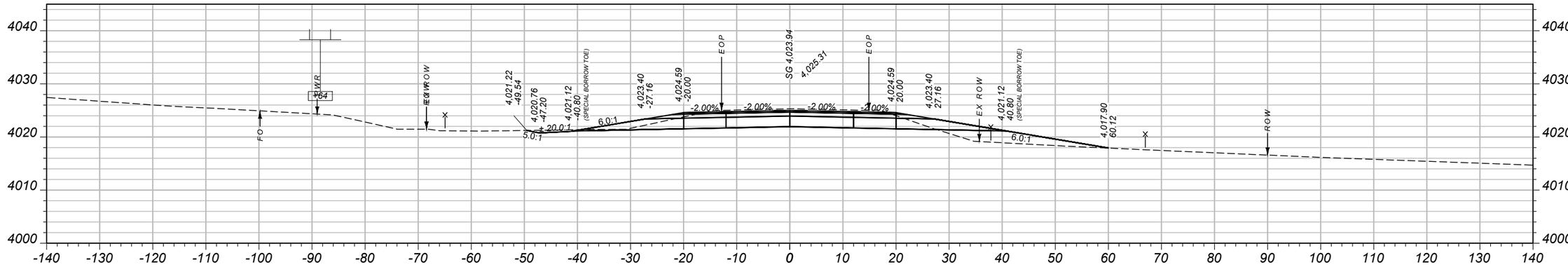
SITE 2

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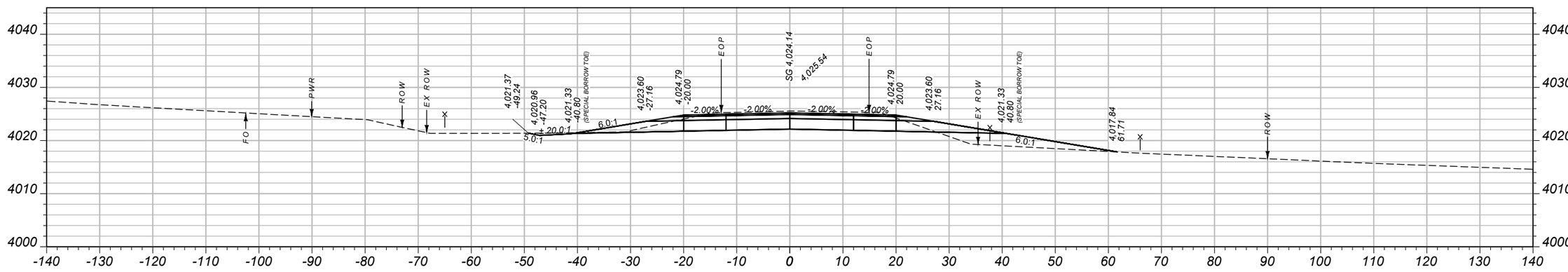
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CV: 197 CY STA 224+83.75 FV: 47 CY



CV: 140 CY STA 224+50.00 FV: 40 CY



CV: 149 CY STA 224+25.97 FV: 53 CY

SHEET NO.
XS57

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	07/2024	A. BOSE	
REVIEWED BY	07/2024	J. BROTZLER	
CHECKED BY	04/2024	T. JOHNSON	

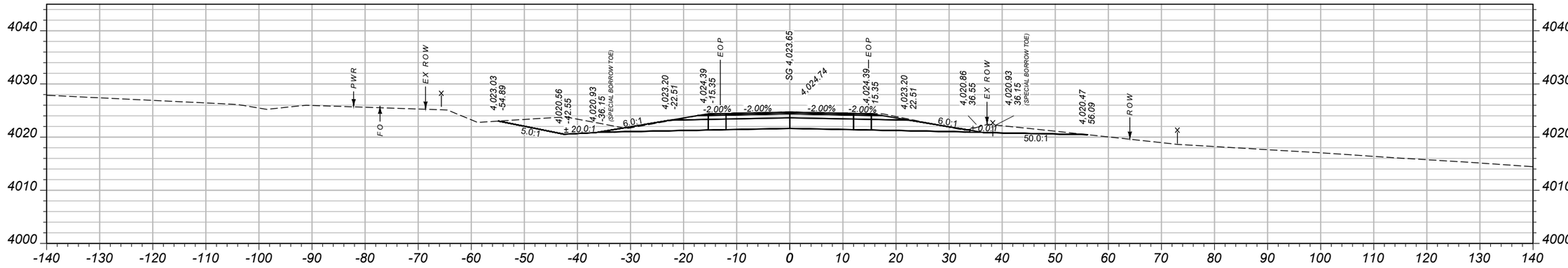
MONTANA Department of Transportation

SITE 2

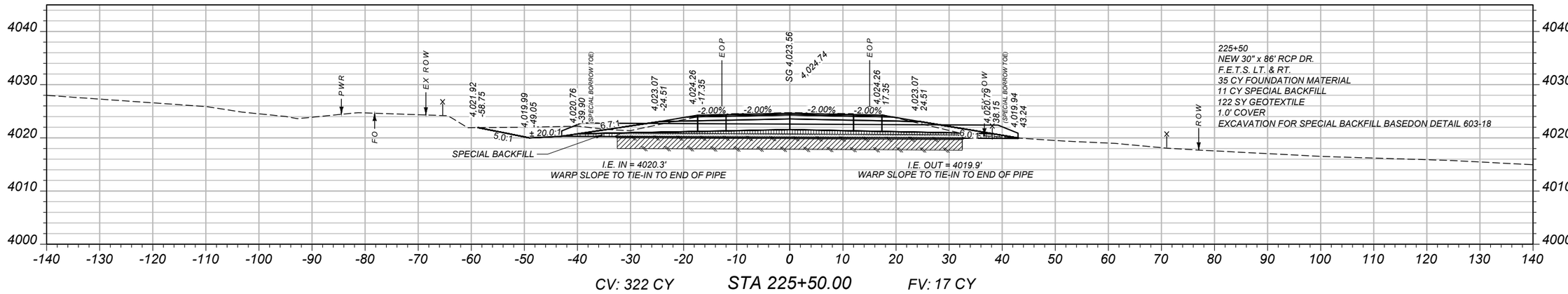
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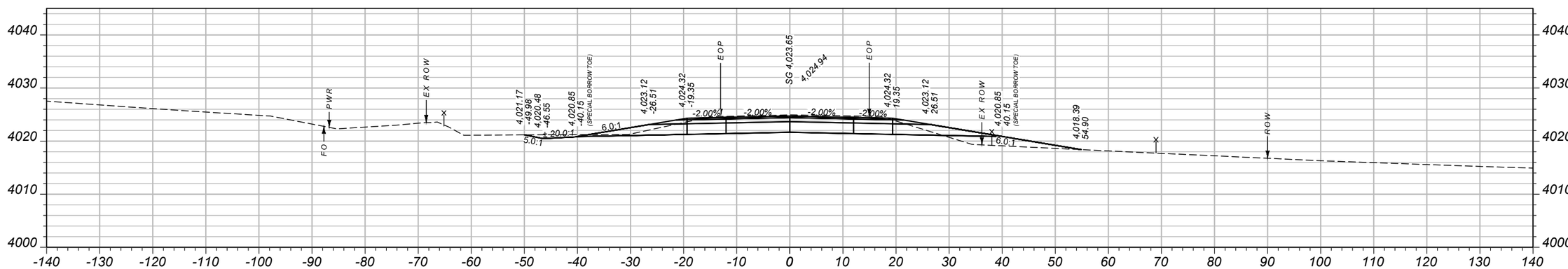
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CV: 376 CY STA 226+00.00 FV: 3 CY



CV: 322 CY STA 225+50.00 FV: 17 CY



CV: 95 CY STA 225+00.00 FV: 18 CY

SHEET NO.
XS58

CROSS SECTIONS - SITE 2

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024	
REVIEWED BY	J. BROTZLER	07/2024	
CHECKED BY	T. JOHNSON	04/2024	

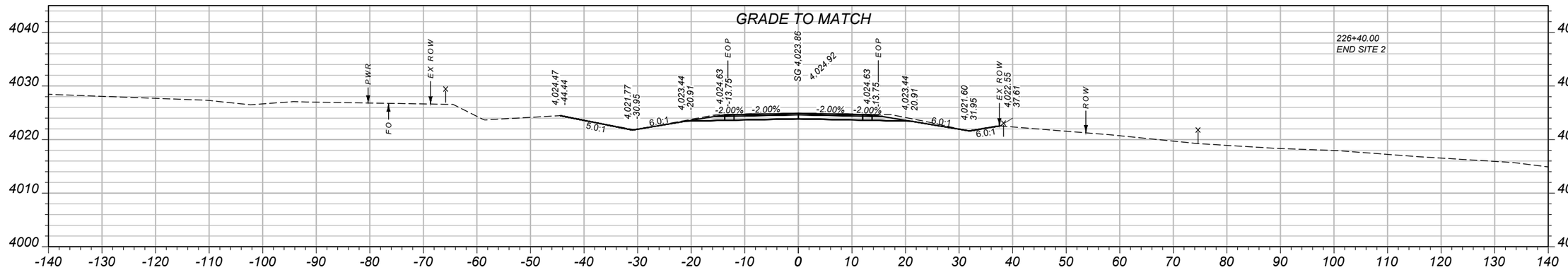
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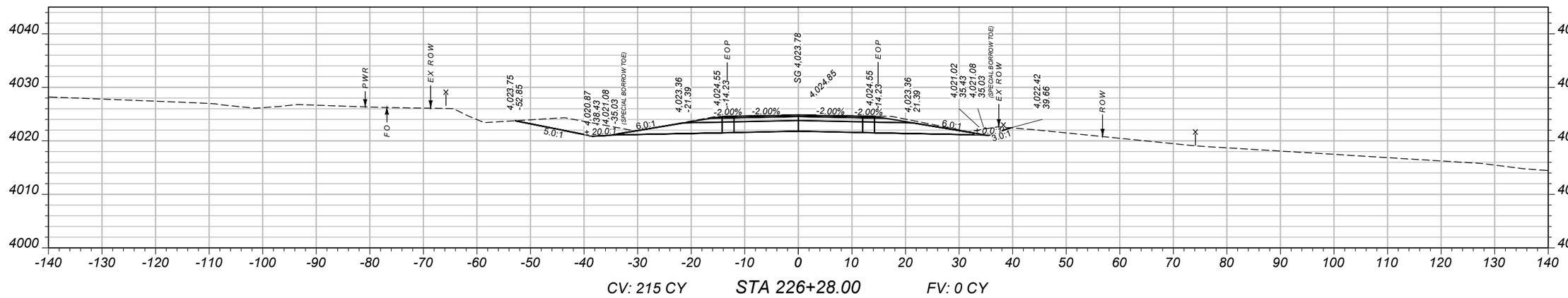
MONTANA
Department of Transportation

SITE 2

11/20/2024 1:44 PM

Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3





SHEET NO.
XS59

CROSS SECTIONS - SITE 2

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

DESIGNED BY	07/2024	REVIEWED BY	07/2024	CHECKED BY	04/2024
A. BOSE		J. BROTZLER		T. JOHNSON	

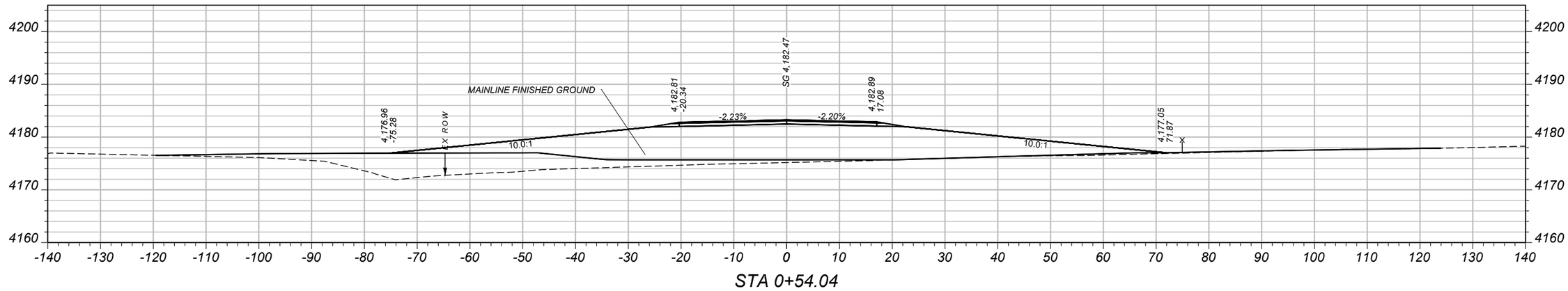
MONTANA
Department of Transportation

SITE 2

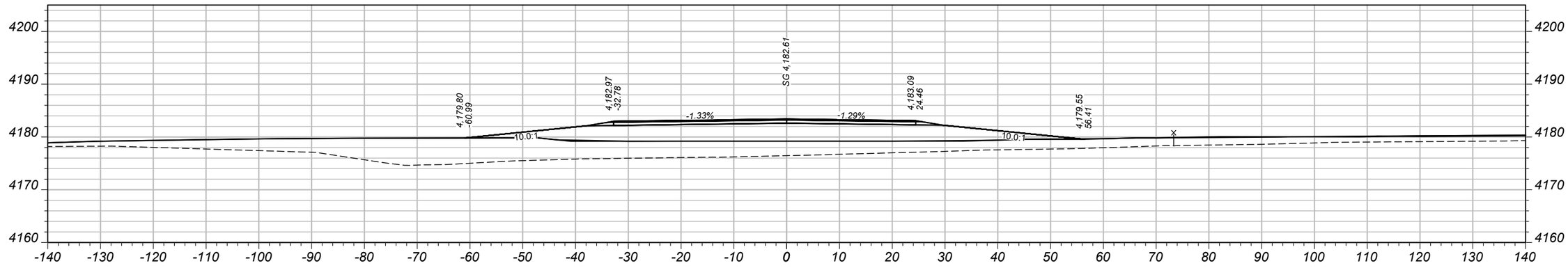
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9422000RDXSF002_NEW.DWG

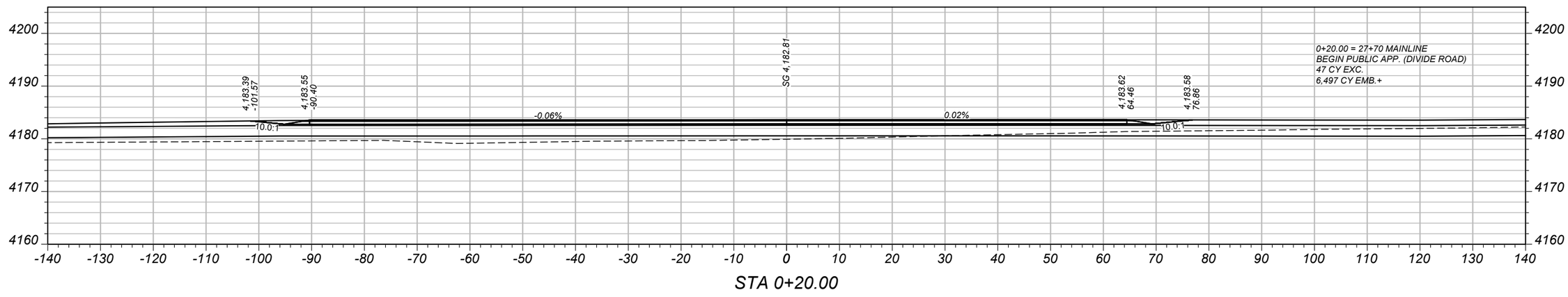
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STA 0+54.04



STA 0+40.00



STA 0+20.00

SHEET NO.
XS60

CROSS SECTIONS - DIVIDE ROAD

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

9422000RDXSF003_NEW.DWG

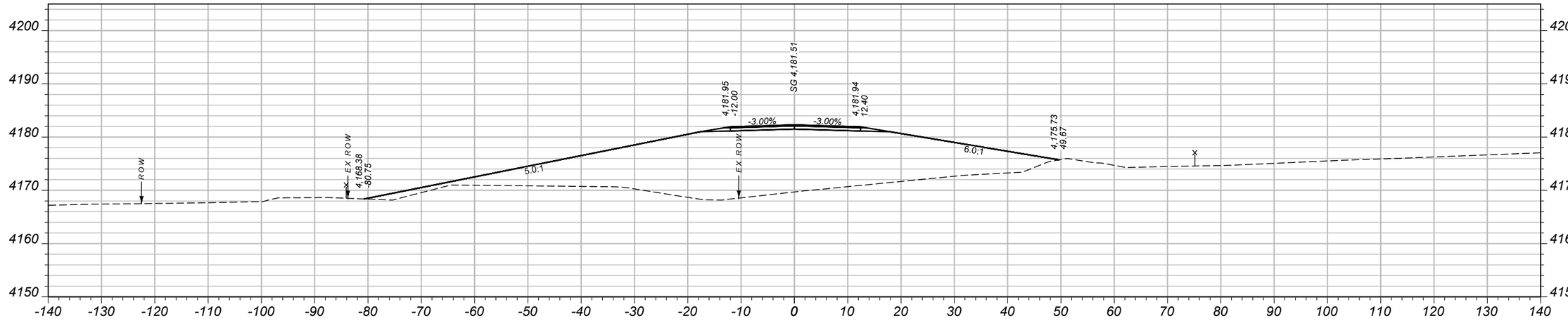
MONTANA
Department of Transportation

DIVIDE RD.

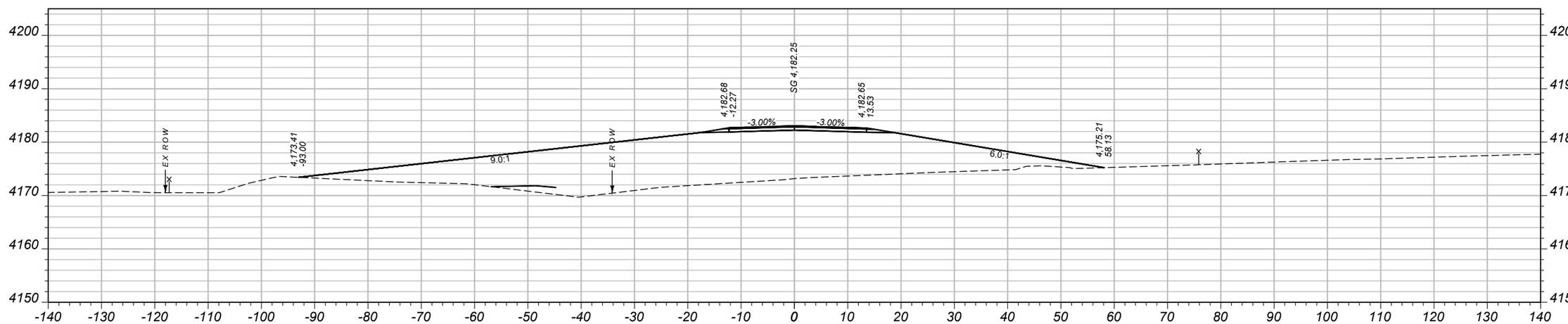
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AWARD COPY



STA 1+00.00



STA 0+75.00

SHEET NO.
XS61

CROSS SECTIONS - DIVIDE ROAD

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	07/2024	A. BOSE	
REVIEWED BY	07/2024	J. BROTZLER	
CHECKED BY	04/2024	T. JOHNSON	

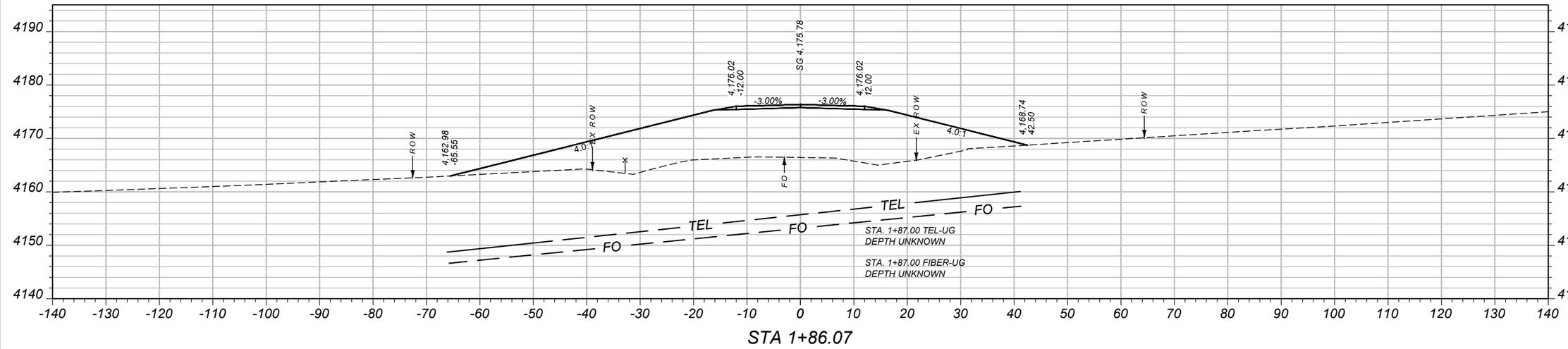
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MONTANA
Department of Transportation

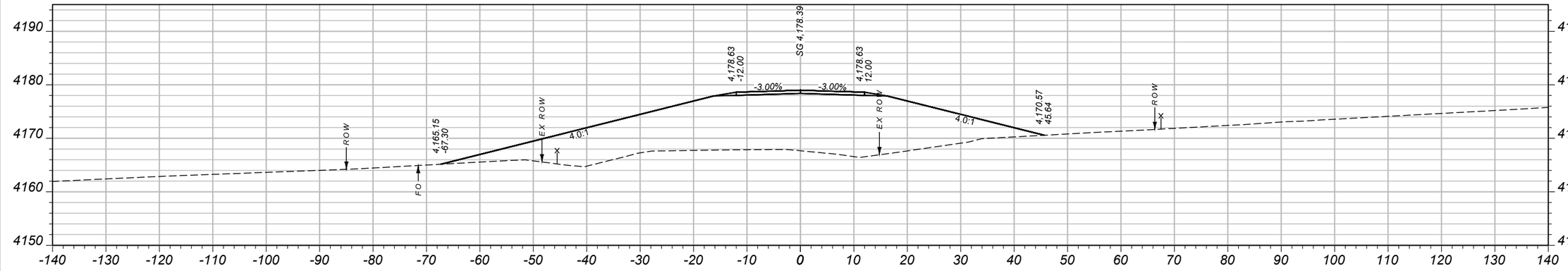
DIVIDE RD.

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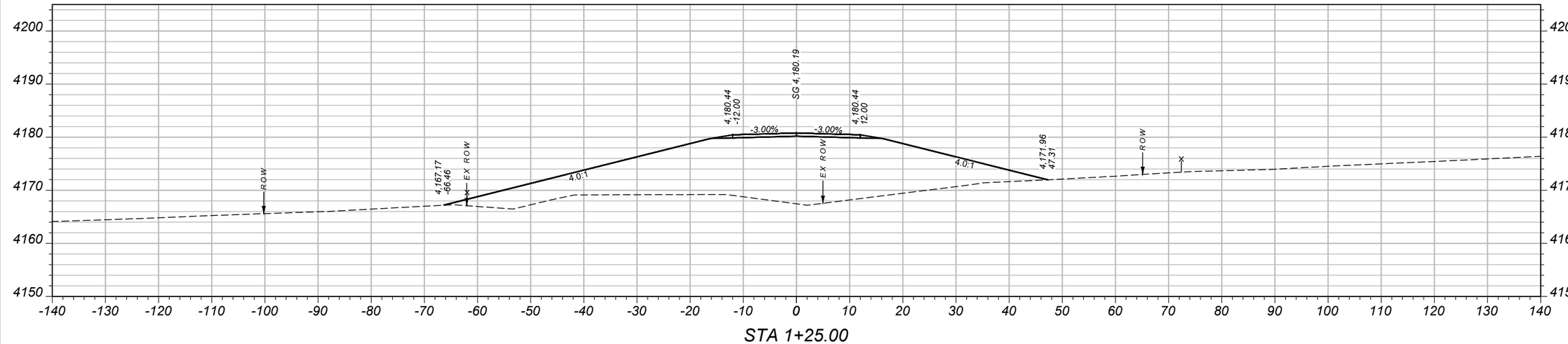
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STA 1+86.07



STA 1+50.00



STA 1+25.00

SHEET NO.
XS62

CROSS SECTIONS - DIVIDE ROAD

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY		REVIEWED BY		CHECKED BY	
A. BOSE	07/2024	J. BROTZLER	07/2024	T. JOHNSON	04/2024

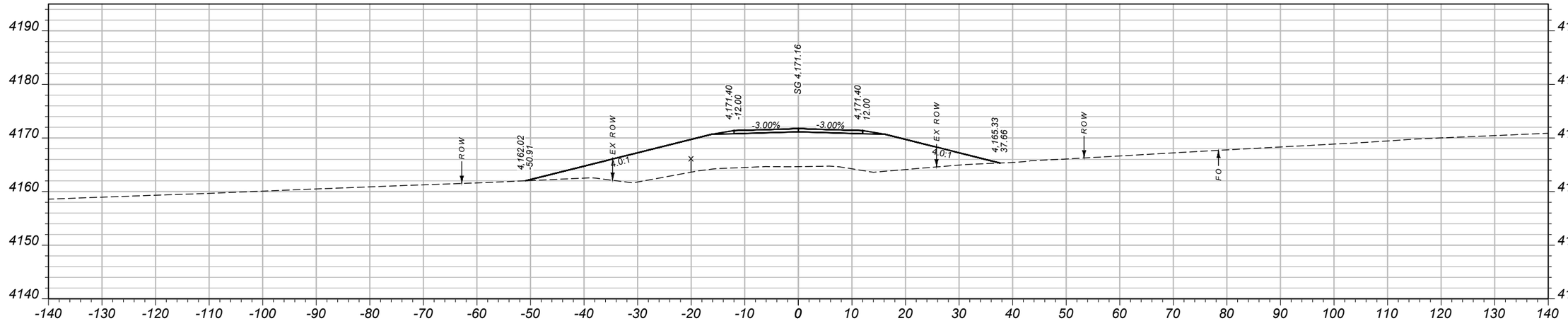
MONTANA
Department of Transportation

DIVIDE RD.

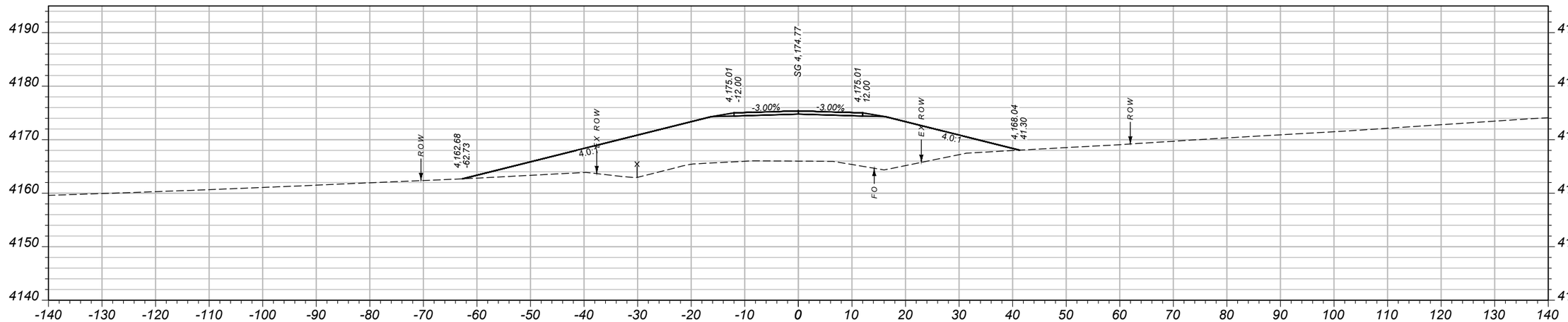
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Docusign Envelope ID: 2A7D517E-B7E7-4C6D-BCCC-E8FD047222C3

AWARD COPY



STA 2+50.00



STA 2+00.00

SHEET NO.
XS63

CROSS SECTIONS - DIVIDE ROAD

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

MONTANA Department of Transportation

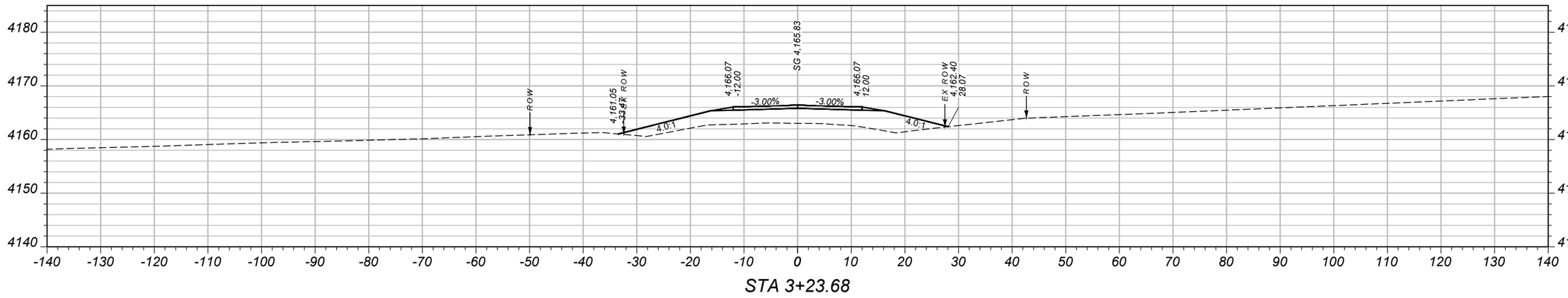
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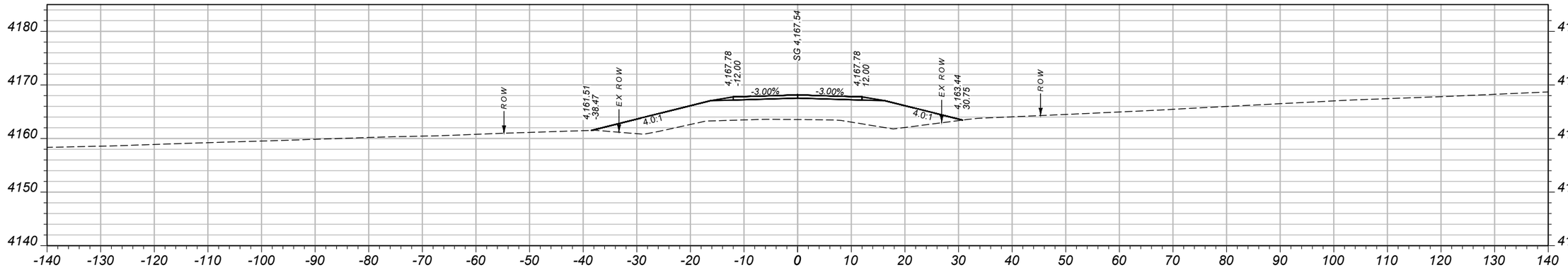
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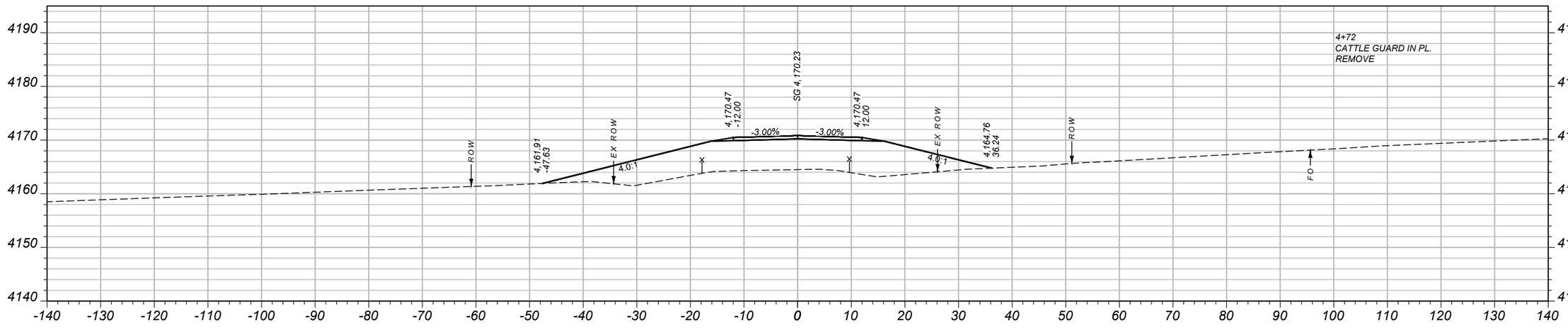
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STA 3+23.68



STA 3+00.00



STA 2+62.80

SHEET NO.
XS64

CROSS SECTIONS - DIVIDE ROAD

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY		REVIEWED BY		CHECKED BY	
A. BOSE	07/2024	J. BROTZLER	07/2024	T. JOHNSON	04/2024

9422000RDXSF003_NEW.DWG

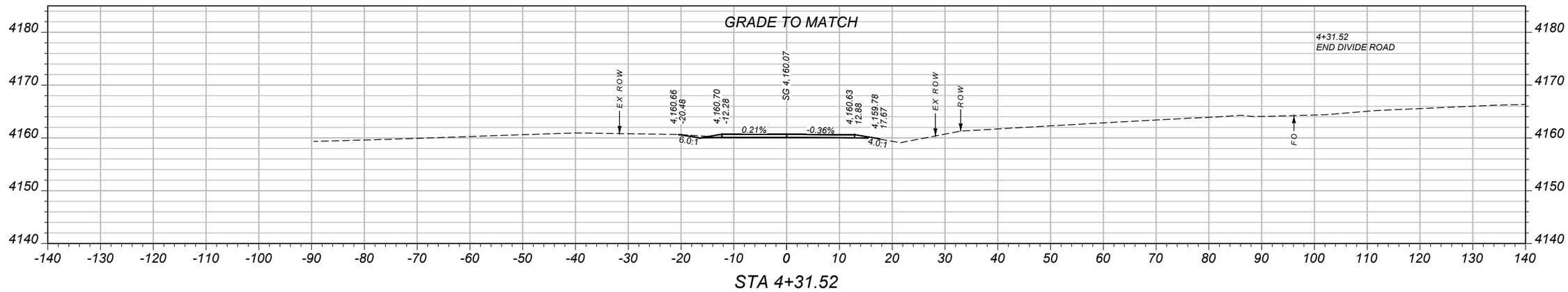
MONTANA Department of Transportation

DIVIDE RD.

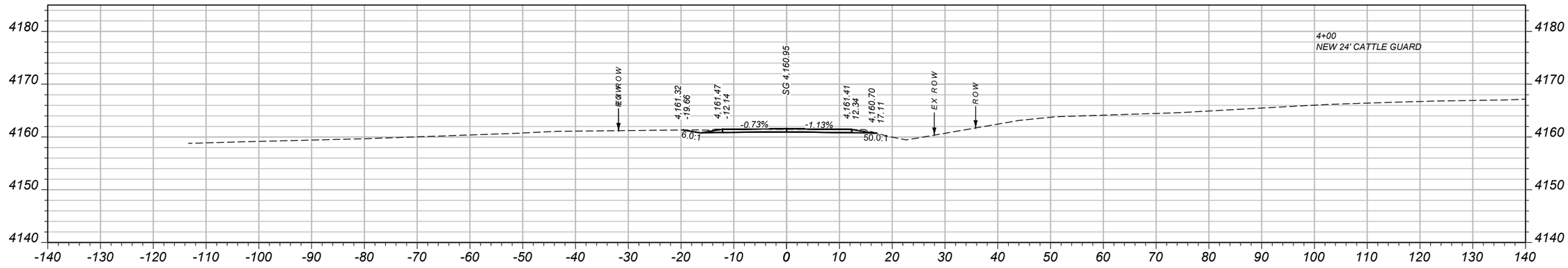
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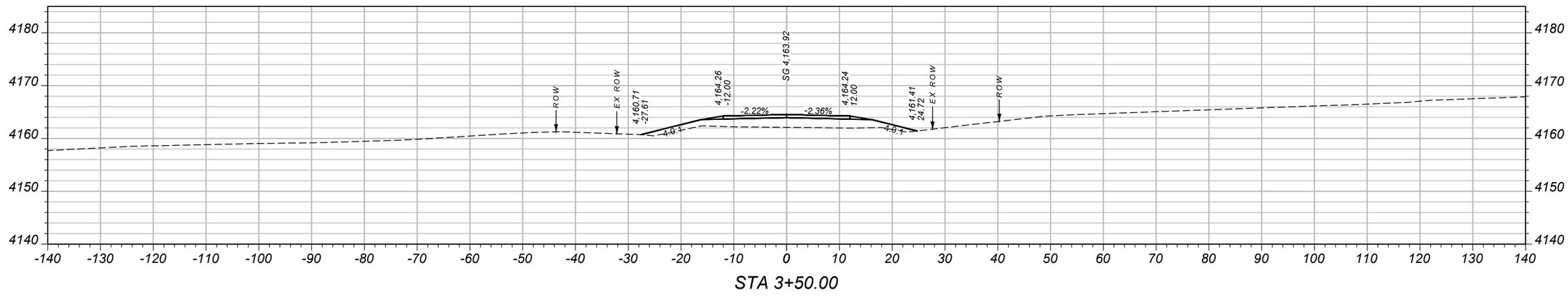
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STA 4+31.52



STA 4+00.00



STA 3+50.00

SHEET NO.
XS65

CROSS SECTIONS - DIVIDE ROAD

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	A. BOSE	07/2024
REVIEWED BY	J. BROTZLER	07/2024
CHECKED BY	T. JOHNSON	04/2024

9422000RDXSF003_NEW.DWG

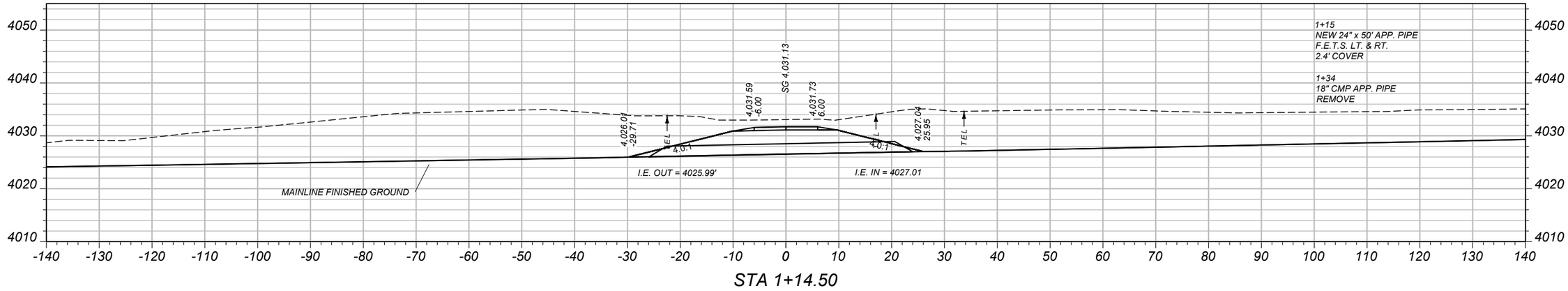
MONTANA
Department of Transportation

DIVIDE RD.

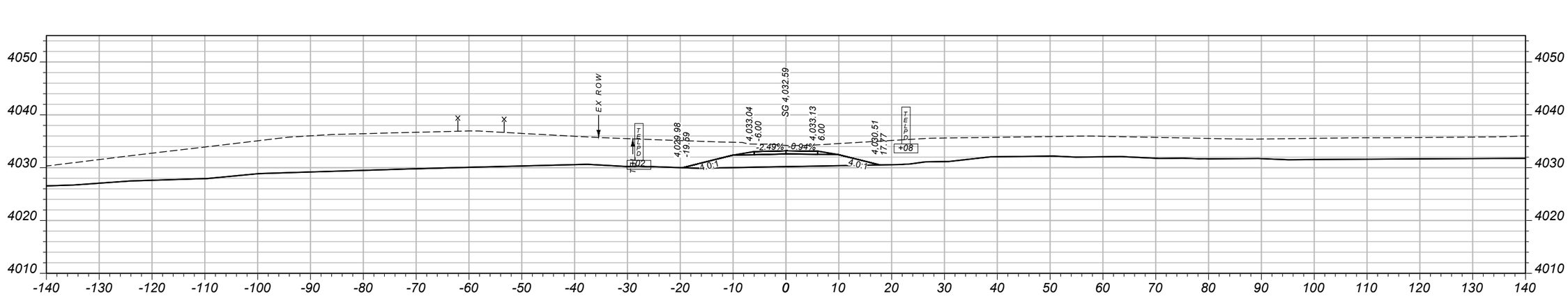
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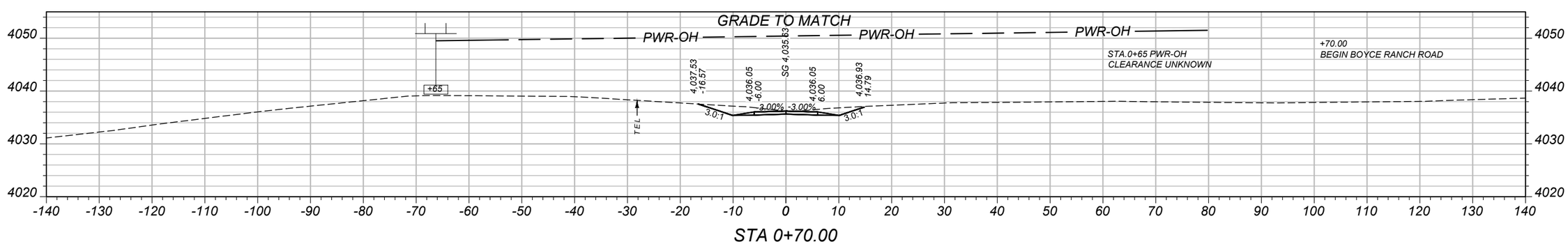
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STA 1+14.50



STA 1+00.00



STA 0+70.00

SHEET NO.
XS66

CROSS SECTIONS - BOYCE RANCH

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY		07/2024
A. BOSE		
REVIEWED BY		07/2024
J. BROTZLER		
CHECKED BY		04/2024
T. JOHNSON		

9422000RDXSF004_NEW.DWG

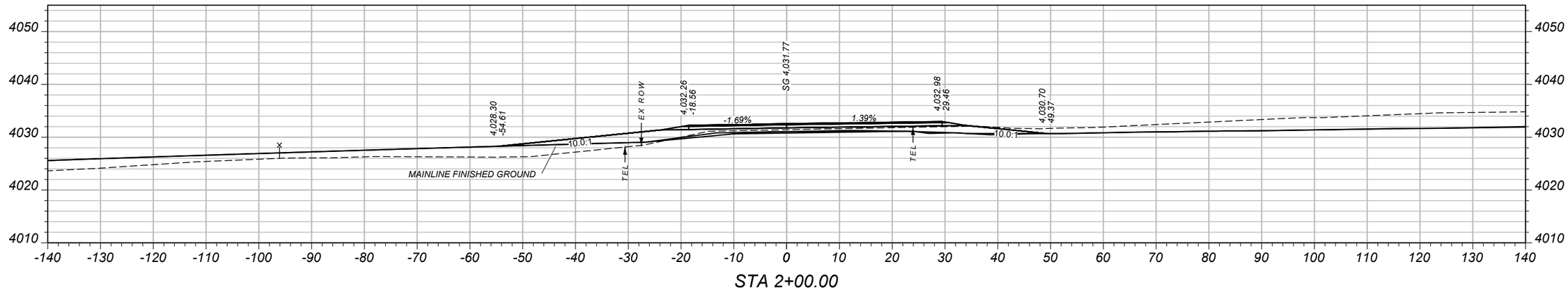
MONTANA Department of Transportation

BOYCE RANCH

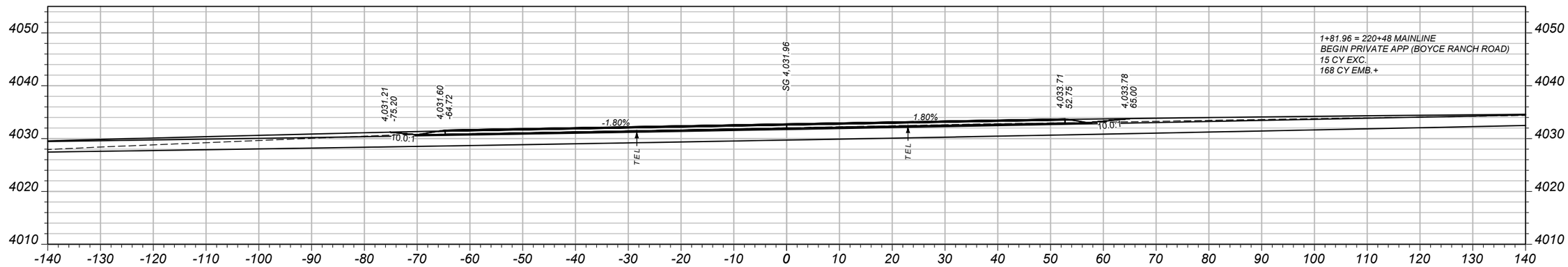
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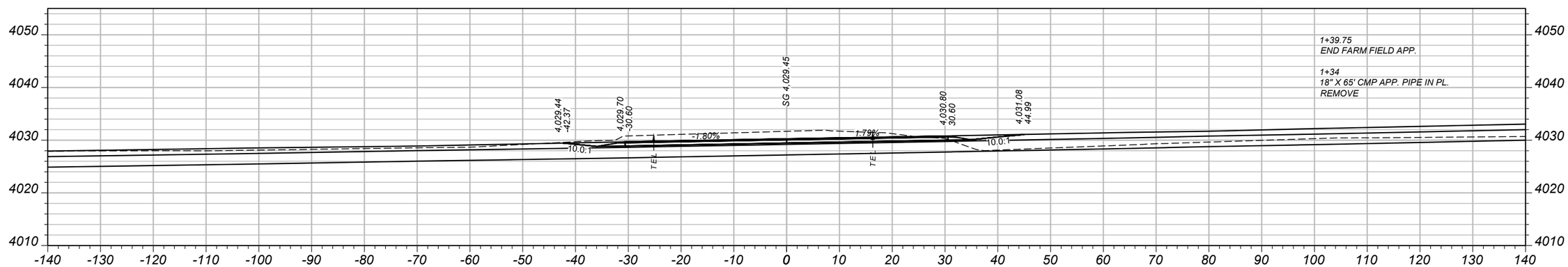
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STA 2+00.00



STA 1+81.96



STA 1+39.75

SHEET NO.
XS67

CROSS SECTIONS - BOYCE RANCH

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY	07/2024	REVIEWED BY	07/2024	CHECKED BY	04/2024
A. BOSE		J. BROTZLER		T. JOHNSON	

9422000RDXSF004_NEW.DWG

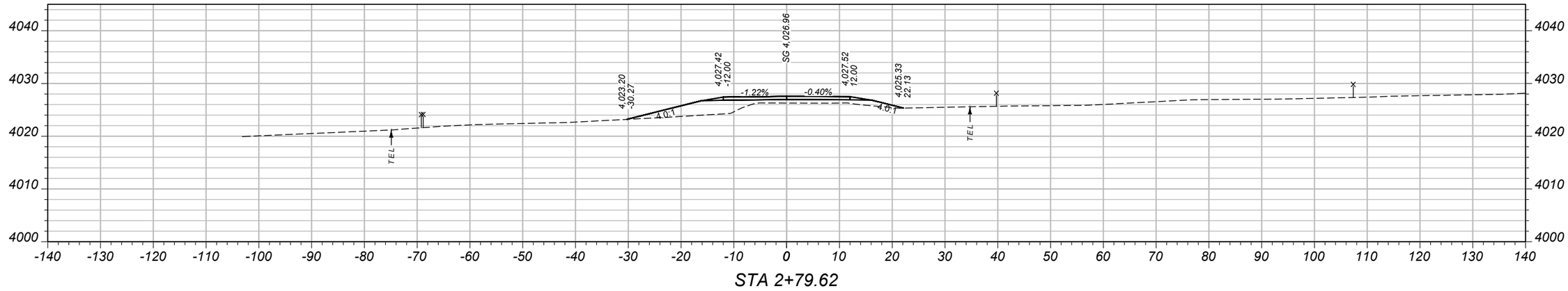
MONTANA
Department of Transportation

BOYCE RANCH

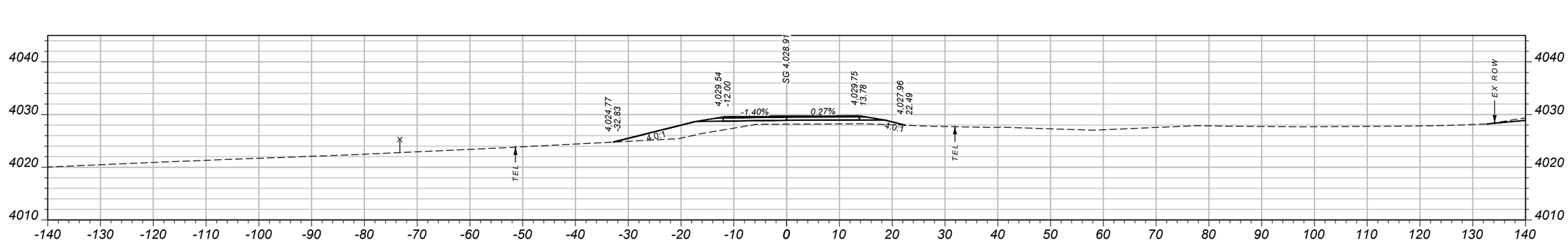
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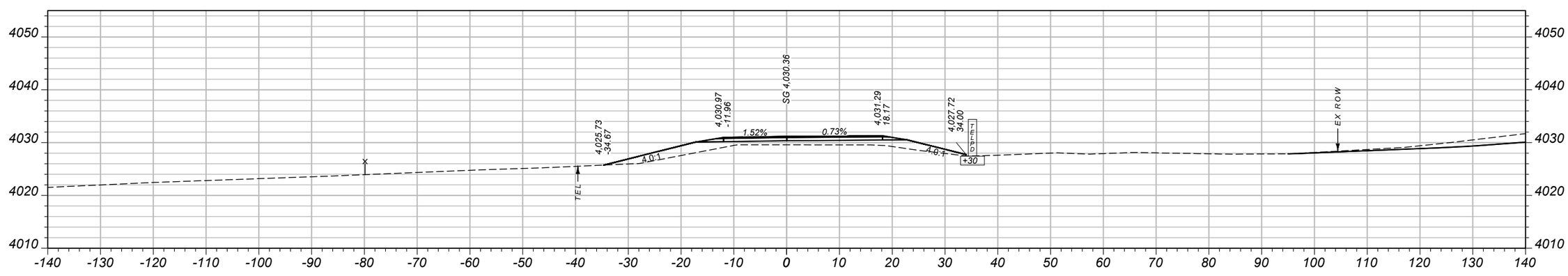
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STA 2+79.62



STA 2+50.00



STA 2+30.00

SHEET NO.
XS68

CROSS SECTIONS - BOYCE RANCH

PROJECT NAME: SF 169 N57 SLDR WID & SLP FLAT
COUNTY: FERGUS COUNTY
PROJECT ID: HSIP-NH 57-3(66)94
UPN: 9422000

DESIGNED BY		07/2024
A. BOSE		
REVIEWED BY		07/2024
J. BROTZLER		
CHECKED BY		04/2024
T. JOHNSON		

9422000RDXSF004_NEW.DWG

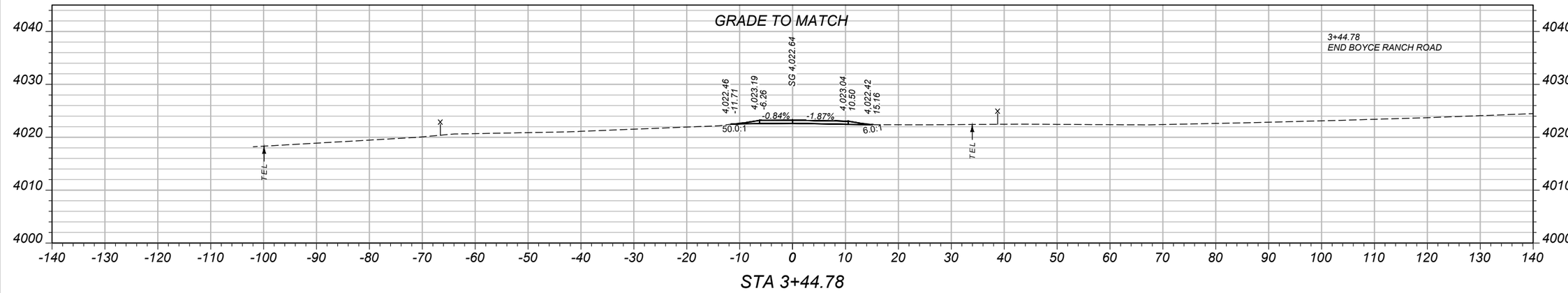
MONTANA
Department of Transportation

BOYCE RANCH

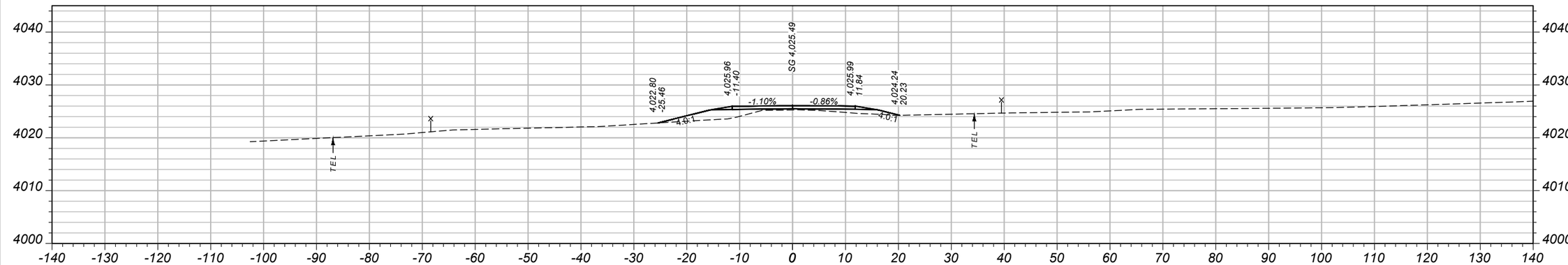
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AWARD COPY



STA 3+44.78



STA 3+00.00

SHEET NO.
XS69

CROSS SECTIONS - BOYCE RANCH

PROJECT NAME: **SF 169 N57 SLDR WID & SLP FLAT**
COUNTY: **FERGUS COUNTY**
PROJECT ID: **HSIP-NH 57-3(66)94**
UPN: **9422000**

DESIGNED BY	REVIEWED BY	CHECKED BY
A. BOSE 07/2024	J. BROTZLER 07/2024	T. JOHNSON 04/2024

9422000RDXSF004_NEW.DWG

MONTANA
Department of Transportation

BOYCE RANCH

11/20/2024 12:10 PM