

PROJECT NAME	SANDERS COUNTY PAVE PRES
COUNTY	SANDERS COUNTY
PROJECT ID	STPP 6-1(188)0
UPN	10686000

DESIGNED BY	03/2026
J. SOLIDAY	
REVIEWED BY	03/2026
J. DOLD	
CHECKED BY	05/2026
J. CERECK	
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MONTANA

Department of Transportation

ROAD PLANS

MONTANA DEPARTMENT OF TRANSPORTATION

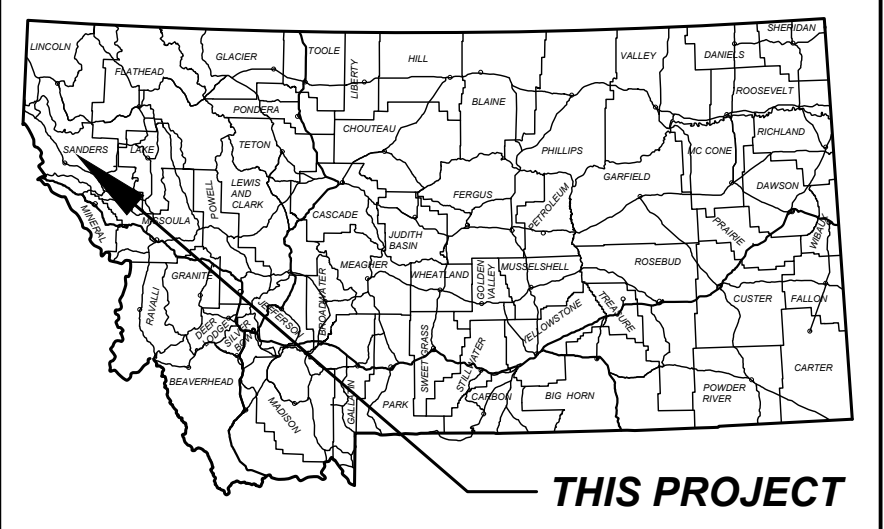
FEDERAL AID PROJECT STPP 6-1(188)0

COLD MILL & OVERLAY, SEAL & COVER, FOG SEAL

SANDERS COUNTY PAVE PRES

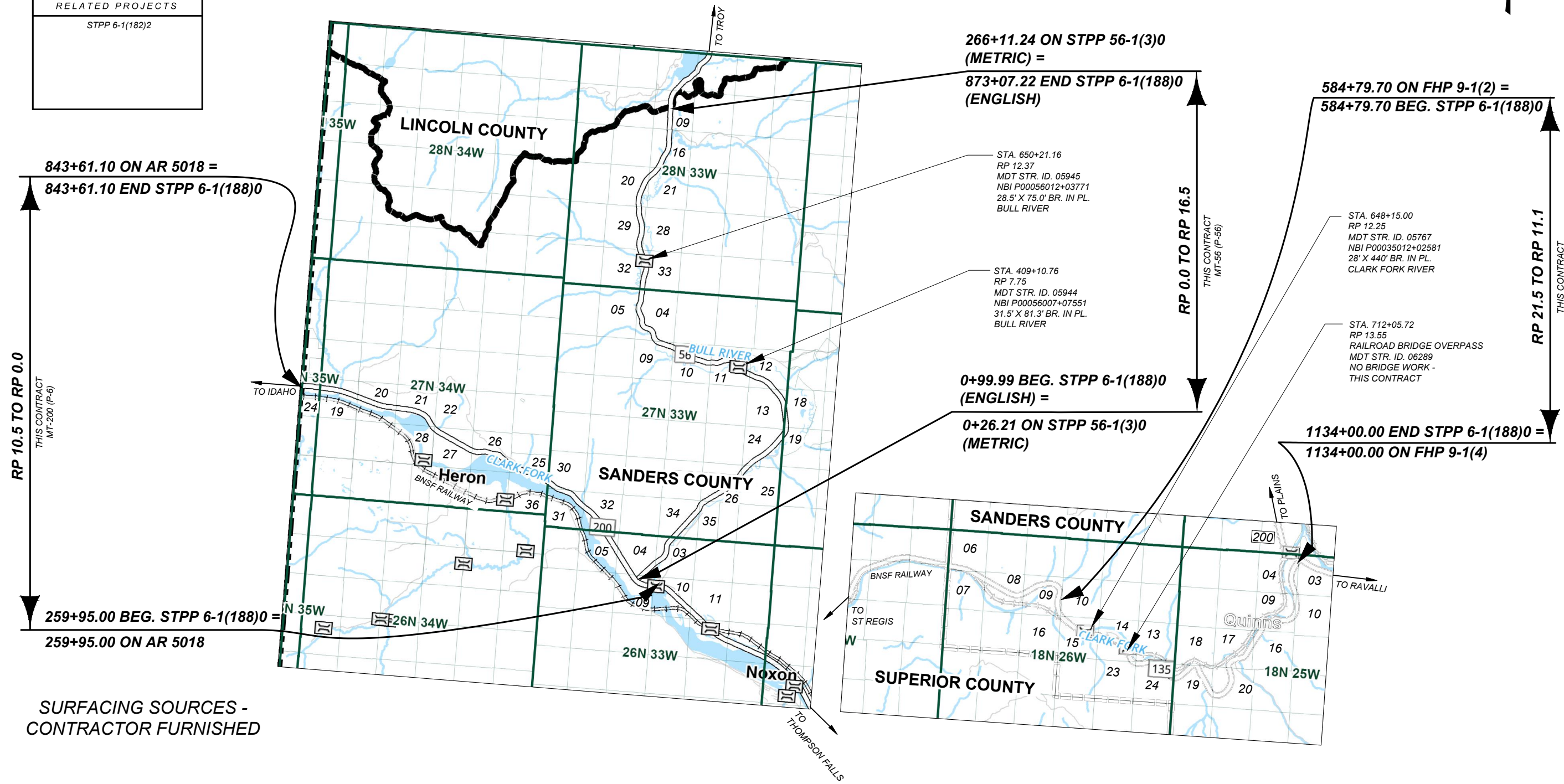
SANDERS COUNTY

LENGTH 37.4 MILES



THIS PROJECT

RELATED PROJECTS
STPP 6-1(182)2



SURFACING SOURCES -
CONTRACTOR FURNISHED

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ROAD PLANS

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AS-BUILTS

FOR HORIZONTAL ALIGNMENT AND STATIONING, REFER TO THE FOLLOWING "AS-BUILT" PROJECT(S):

- AR 5018 (RECONSTRUCT - 1952)
- FHP 6-1(1) (RECONSTRUCT - 1963)
- STPP 56-1(3)0 (OVERLAY - 1984)
- FHP 9-1(1) (RECONSTRUCT - 1961)
- FHP 9-1(2) (RECONSTRUCT - 1962)
- FHP 9-1(3) (RECONSTRUCT - 1965)
- FHP 9-1(4) (RECONSTRUCT - 1966)

STATIONING - REFERENCE POSTS

STATIONING RUNS IN OPPOSITE DIRECTION AS REFERENCE POSTS FOR HIGHWAY 200 (P-6).

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.

WETLANDS

WETLANDS MAY EXIST ADJACENT TO THE ROADWAY AND BEYOND THE PROJECT LIMITS. A WETLAND DELINEATION HAS NOT BEEN COMPETED FOR THIS PROJECT. IMPACTS TO WETLAND AREAS ARE NOT ANTICIPATED IN ASSOCIATION WITH THE PROPOSED WORK. NO PERMITS HAVE BEEN OBTAINED. ANY ACTION IMPACTING WETLAND AREAS WITHIN THE APPROPRIATE PERMITTING IS THE RESPONSIBILITY OF THE CONTRACTOR.

SHEET NO.

2

TABLE OF CONTENTS
AND NOTES

PROJECT NAME
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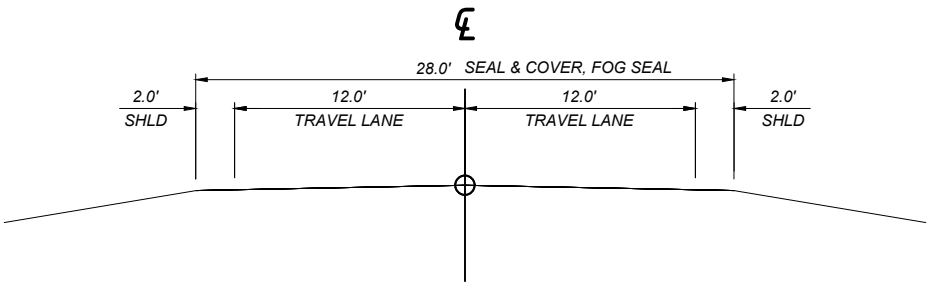


ROAD PLANS

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TYPICAL SECTION NO. 1

MT-200 (P-6)



QUANTITIES				
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL	
	COVER		EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT FOG SEAL
AREA square feet	311	square yards PER STATION	311	311
cubic yards PER STATION		tons PER STATION	0.56	
tons PER STATION		gals. PER STATION		23
square yards PER STATION				

259+95.00 TO 632+18.43 THEN TO TYP. NO. 2
661+25.16 TO 843+61.10

NOTE: SEE SURFACING FRAME FOR STATION EQUATIONS

SHEET NO.

3

TYPICAL SECTION

PROJECT NAME SANDERS COUNTY PAVE PRES

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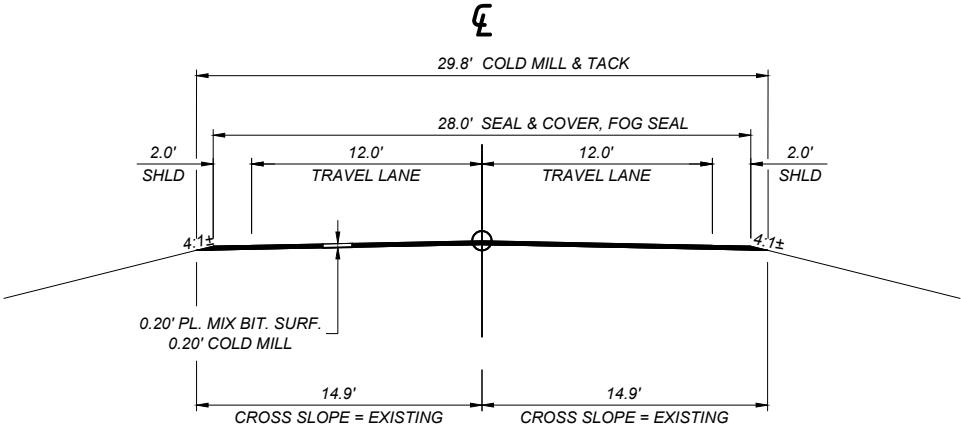


ROAD PLANS

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TYPICAL SECTION NO. 2

MT-200 (P-6)



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*	EMULSIFIED ASPHALT FOG SEAL
AREA square feet		5.78	square yards PER STATION	311	331	311
cubic yards PER STATION		21.4	tons PER STATION	0.56		
tons PER STATION		41.2	gals. PER STATION		17	23
square yards PER STATION	311					

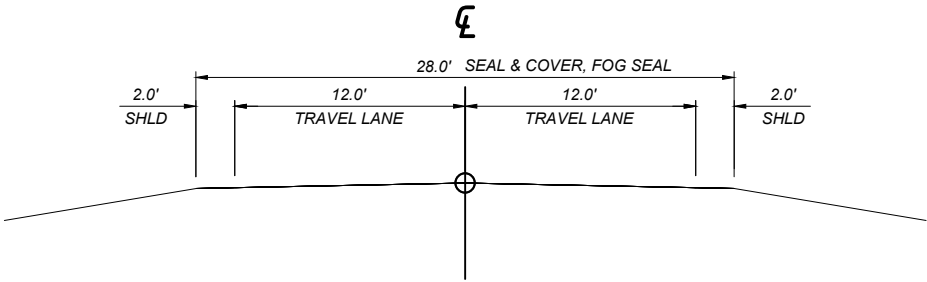
* BASED ON 1 APPLICATION

632+18.43 TO 661+25.16 THEN TO TYP. NO. 1

NOTE: SEE SURFACING FRAME FOR STATION EQUATIONS

TYPICAL SECTION NO. 3

MT-56 (P-56)



QUANTITIES				
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL	
	COVER		EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT FOG SEAL
AREA square feet	311	square yards PER STATION	311	311
cubic yards PER STATION		tons PER STATION	0.56	
tons PER STATION		gals. PER STATION		23
square yards PER STATION				

0+99.99 TO 270+13.99 THEN TO TYP. NO. 4
359+89.99
408+70.14 B.E. TO 409+51.39 B.E.
649+83.66 B.E. TO 650+58.66 B.E.
TO 873+07.22

SHEET NO.

4

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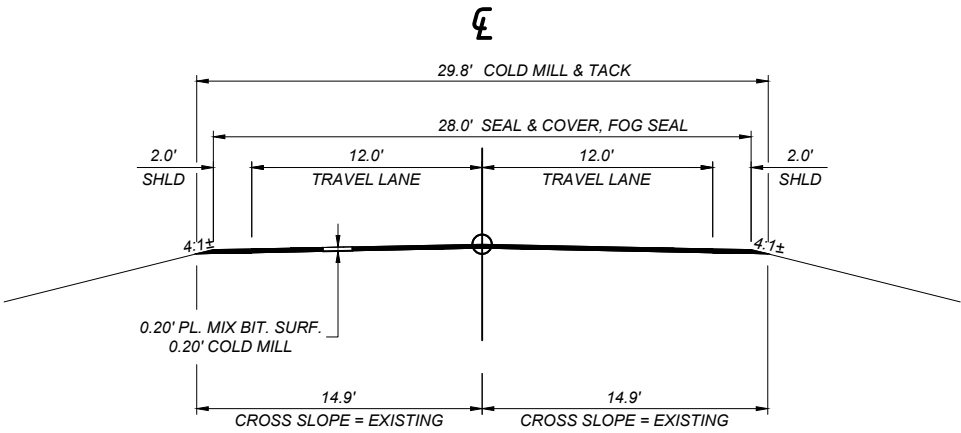
ROAD PLANS

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270+13.99 TO 359+89.99 THEN TO TYP. NO. 3

TYPICAL SECTION NO. 4

MT-56 (P-56)



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*	EMULSIFIED ASPHALT FOG SEAL
AREA square feet	311	5.78	square yards PER STATION	311	331	311
cubic yards PER STATION		21.4	tons PER STATION	0.56		
tons PER STATION		41.2	gals. PER STATION		17	23
square yards PER STATION						

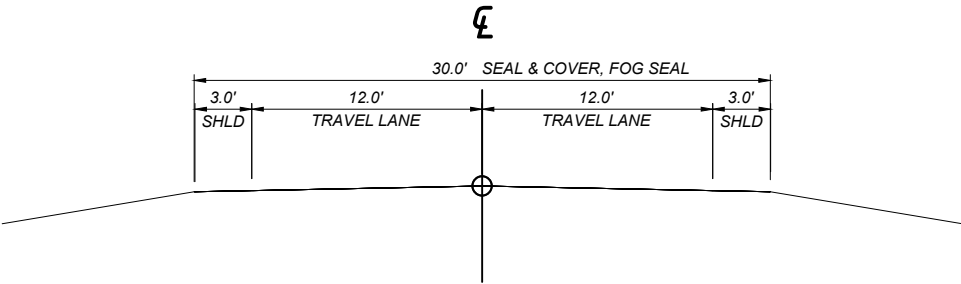
* BASED ON 1 APPLICATION

TYPICAL SECTION NO. 5

MT-135 (P-35)

584+79.70 TO 645+95.00 B.E.
650+35.00 B.E. TO 1134+00.00

NOTE: SEE SURFACING FRAME FOR STATION EQUATIONS



QUANTITIES				
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL	
	COVER		EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT FOG SEAL
AREA square feet	333	square yards PER STATION	333	333
cubic yards PER STATION		tons PER STATION	0.59	
tons PER STATION		gals. PER STATION		25
square yards PER STATION				

SHEET NO.

5

TYPICAL SECTION

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ROAD PLANS

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SUMMARY

SHEET NO.

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SUMMARY

SURFACING													
STATION		linear feet				FOR	AGGREGATE		BITUMINOUS MATERIAL			REMARKS	
		GROSS	NET	+	-		sq. yards	tons	tons	gals.			
							COVER TYPE 1	COMMER- CIAL MIX 1/2" PG 58V-34	EMULSIFIED ASPHALT CHFRS-2P	EMULSIFIED ASPHALT TACK	EMULSIFIED ASPHALT FOG SEAL		
FROM	TO												
MT - 200													
259+95.00													
270+57.40 BK	278+25.60 AH				768.20	EQUATION							
316+48.67 BK	316+50.48 AH				1.81	EQUATION							
365+90.60 BK	367+48.71 AH				158.11	EQUATION							
538+44.40 BK	538+60.90 AH				16.50	EQUATION							
579+01.10 BK	582+47.20 AH				346.10	EQUATION							
	632+18.43	37,223.43	35,932.71				111,751		201.2		8,265	TYP. NO. 1	
632+18.43													
644+14.39 BK	644+17.12 AH				2.73	EQUATION							
	661+25.16	2,906.73	2,904.00				9,031	1,196	16.3	494.0	668	TYP. NO. 2	
661+25.16													
680+76.98 BK	697+58.92 AH				1,681.94	EQUATION							
804+67.60 BK	804+95.20 AH				27.60	EQUATION							
	843+61.10	18,235.94	16,526.40				51,397		92.5		3,801	TYP. NO. 1	
						ADDITIONAL SURFACING	2,084		3.7		156		
MT - 200 SUBTOTAL		58,366.10	55,363.11	~	3,002.99		174,263	1,196	313.7	494.0	12,890		
MT - 56													
0+99.99	270+13.99	26,914.00	26,914.00				83,703		150.7		6,190	TYP. NO. 3	
270+13.99	359+89.99	8,976.00	8,976.00				27,915	3,698	50.3	1,526.0	2,064	TYP. NO. 4	
359+89.99													
408+69.82 B.E.	409+51.71 B.E.				81.89	BRIDGE							
649+83.66 B.E.	650+58.66 B.E.				75.00	PAVED BRIDGE							
	873+07.22	51,317.23	51,160.34				159,111		286.5		11,767	TYP. NO. 3	
						ADDITIONAL SURFACING	2,159		3.9		162		
MT - 56 SUBTOTAL		87,207.23	87,050.34	~	156.89		272,888	3,698	491.4	1,526.0	20,183		
MT - 135													
584+79.70													
578+19.46 BK	578+22.88 AH				3.42	EQUATION							
606+49.32 BK	607+00.00 AH				50.68	EQUATION							
617+34.94 BK	617+53.41 AH				18.47	EQUATION							
645+95.00 B.E.	650+35.00 B.E.				440.00	BRIDGE							
684+53.00 BK	684+52.21 AH			0.79		EQUATION							
712+07.96 BK	712+27.16 AH				19.20	EQUATION							
807+90.32 BK	807+99.59 AH				9.27	EQUATION							
921+54.97 BK	921+46.07 AH			8.90		EQUATION							
962+66.31 BK	962+67.30 AH				0.99	EQUATION							
1031+34.77 BK	1031+35.79 AH				1.02	EQUATION							
1068+08.82 BK	1068+21.54 AH				12.72	EQUATION							
1123+63.03 BK	1123+59.91 AH			3.12		EQUATION							
	1134+00.00	54,920.30	54,377.34				181,076		320.8		13,594	TYP. NO. 5	
						ADDITIONAL SURFACING	299		0.5		22		
MT - 135 SUBTOTAL		54,920.30	54,377.34	12.81	555.77		181,375	~	321.3	~	13,616		
TOTAL		200,493.63	196,790.79	12.81	3,715.65		628,526	4,894	1,126.4	2,020.0	46,689		

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ROAD PLANS

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SUMMARY

SHEET NO.

7

SUMMARY

* ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)												
STATION		linear feet				FOR	AGGREGATE		BITUMINOUS MATERIAL			REMARKS
		GROSS	NET	+	-		sq. yards	tons	tons	gals.		
							COVER TYPE 1	COMMER- CIAL MIX 1/2" PG 58V-34	EMULSIFIED ASPHALT CHFRS-2P	EMULSIFIED ASPHALT TACK	EMULSIFIED ASPHALT FOG SEAL	
FROM	TO											
MT - 200												
824+21.10	827+61.10					PULLOUT LT.	2,084		3.7		156	SEAL & COVER, FOG SEAL PAVED AREA
MT - 200 SUBTOTAL												
							2,084		3.7		156	
MT - 56												
0+99.99	1+97.99					INTERSECTION AREA RADIUS	536		1.0		40	SEAL & COVER, FOG SEAL
66+02.22	68+42.22					PULLOUT RT.	314		0.6		24	SEAL & COVER, FOG SEAL PAVED AREA
137+64.63	139+34.63					PULLOUT RT.	189		0.3		14	SEAL & COVER, FOG SEAL PAVED AREA
192+90.83	195+19.83					PULLOUT RT.	281		0.5		21	SEAL & COVER, FOG SEAL PAVED AREA
272+77.63	274+92.63					PULLOUT RT.	272		0.5		20	SEAL & COVER, FOG SEAL PAVED AREA
377+79.03	380+79.03					PULLOUT RT.	329		0.6		25	SEAL & COVER, FOG SEAL PAVED AREA
649+83.66	650+58.66					PAVED BRIDGE	238		0.4		18	28.5' X 75.0' MDT STR. ID. 05945
MT - 56 SUBTOTAL												
							2,159		3.9		162	
MT - 135												
1133+05.00	1134+00.00					INTERSECTION AREA RADIUS	299		0.5		22	SEAL & COVER, FOG SEAL
MT - 135 SUBTOAL												
							299		0.5		22	
TOTAL		~	~	~	~		4,542	~	8.1	~	340	

*MEASURED ON CAD

COLD MILLING			
STATION		sq. yards	REMARKS
		COLD MILLING	
FROM	TO	0.20 ft	
MT - 200			
632+18.43			
644+14.39 BK	644+17.12 AH		EQUATION = (-2.73')
	661+25.16	9,615	29.8' WIDTH
SUBTOTAL MT - 200		9,615	
MT - 56			
270+13.99	359+89.99	29,721	29.8' WIDTH
SUBTOTAL MT - 56		29,721	
TOTAL		39,336	

CRACK SEALING							
STATION		TRANSVERSE & LONGITUDINAL CRACK SEALING, MASTIC PATCH AREA					REMARKS
		CRACK SEALING		MASTIC CRACK FILLING			
FROM	TO	pounds	linear feet	pounds	linear feet	area (sq. ft.)	
MT - 200							
259+95.00	843+61.10	5,057	7,225	183,188	2,379	17,061	
MT - 200 SUBTOTAL		5,057	7,225	183,188	2,379	17,061	
MT - 56							
0+99.99	873+07.22	44,311	63,302	27,543	2,008	2,298	
MT - 56 SUBTOTAL		44,311	63,302	27,543	2,008	2,298	
MT - 135							
584+79.70	1134+00.00	25,263	36,090	47,926	2,686	4,251	
MT - 135 SUBTOTAL		25,263	36,090	47,926	2,686	4,251	
TOTAL		74,631	#	258,657	#	#	

FOR INFORMATION ONLY

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MONTANA

Department of Transportation

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SUMMARY

SUMMARY

RUMBLE STRIPS					
STATION		miles		gals	REMARKS
		RUMBLE STRIPS		EMULSIFIED ASPHALT FOG SEAL #	
		SINUSOIDAL CENTERLINE	CENTERLINE TYPE 2		
FROM	TO				
MT - 200					
632+18.43	661+25.16		0.6	65	
MT - 200 SUBTOTAL		~	0.6	65	
MT - 56					
270+13.99	359+89.99	1.7		199	SEE DETAIL
MT - 56 SUBTOTAL		1.7	~	199	
TOTAL		1.7	0.6	~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS

BRIDGE DECK TREATMENT						
STATION		square yards			linear foot	REMARKS
		CLASS A BRIDGE DECK REPAIR	CLASS B BRIDGE DECK REPAIR	BRIDGE DECK CRACK SEAL	EXPANSION JOINT PRE-COMPRESSED	
		FROM	TO			
645+95.00	650+35.00	8.3	6.0	1,384	66.7	MDT STR. ID. 05767 (MT - 135)
408+69.82	409+51.71	9.0		289		MDT STR. ID. 05944 (MT - 56)
TOTAL		17.3	6.0	1,673	66.7	

PAVEMENT MARKINGS											
ITEM	UNIT	MT-200 (P-6)			MT-56 (P-56)			MT-135 (P-5)			PROJECT TOTAL
		INTERIM APPLICA-TION #	FINAL APPLICA-TION	SUBTOTAL	INTERIM APPLICA-TION #	FINAL APPLICA-TION	SUBTOTAL	INTERIM APPLICA-TION #	FINAL APPLICA-TION	SUBTOTAL	
STRIPING - WHITE PAINT	gallon	401		401	661		661	379		379	1,441
STRIPING - YELLOW PAINT	gallon	251		251	489		489	302		302	1,042
WORDS & SYMBOLS - WHITE PAINT	gallon				1		1	1		1	2
STRIPING - WHITE EPOXY	gallon		508	508		798	798		505	505	1,811
STRIPING - YELLOW EPOXY	gallon		317	317		590	590		402	402	1,309
WORDS & SYMBOLS - WHITE EPOXY	gallon					1	1		1	1	2
TEMPORARY STRIPING	linear feet										23,760

BASED ON 2 APPLICATIONS IN THE MILL/FILL AREAS AND 1 APPLICATION IN THE SEAL & COVER AREAS.

TEMPORARY BARRIER RAIL										
STATION		linear feet				each				REMARKS
		TEMPORARY BARRIER RAIL		RESET TEMPORARY BARRIER RAIL		TEMPORARY IMPACT ATTENUATOR		RESET TEMPORARY IMPACT ATTENUATOR		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
408+26.00	409+96.00	130			130	2			2	MDT STR. ID. 05944 (MT - 56)
645+55.00	650+75.00	480			480	2			2	MDT STR. ID. 05767 (MT - 135)
SUBTOTAL		610	~	~	610	4	~	~	4	
TOTAL		610		610		4		4		

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DETAIL

SHEET NO.

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SINUSOIDAL
CENTERLINE RUMBLE
STRIPS

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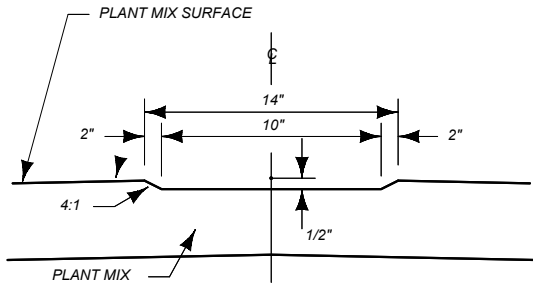
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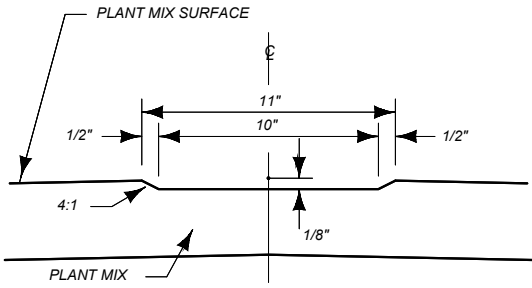


ROAD PLANS

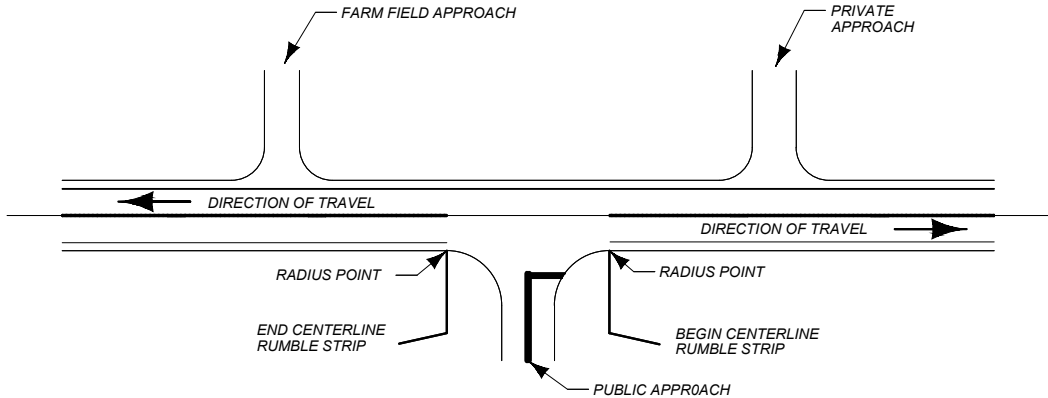
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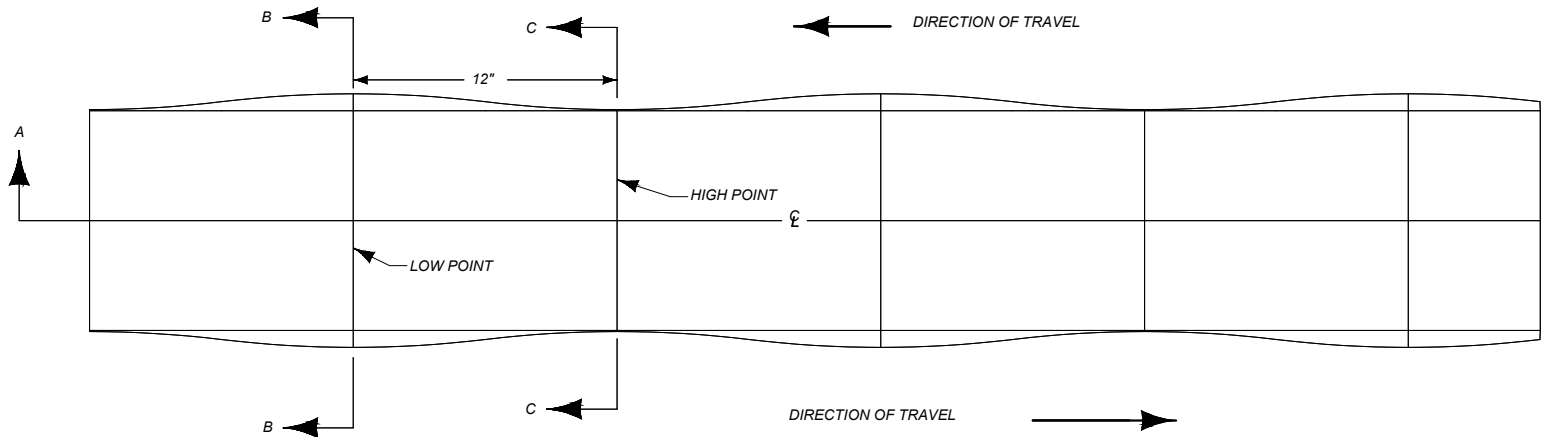
SECTION B-B



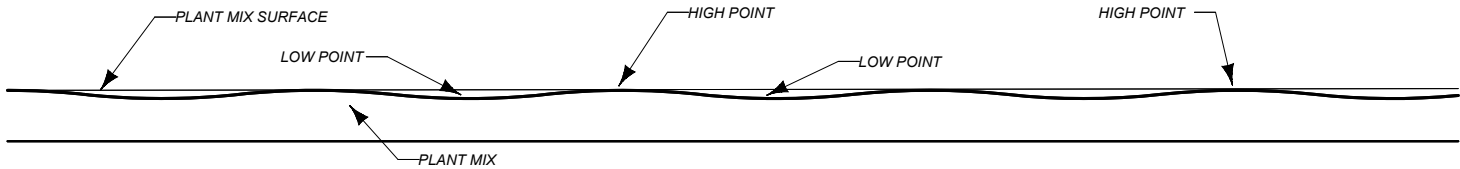
SECTION C-C



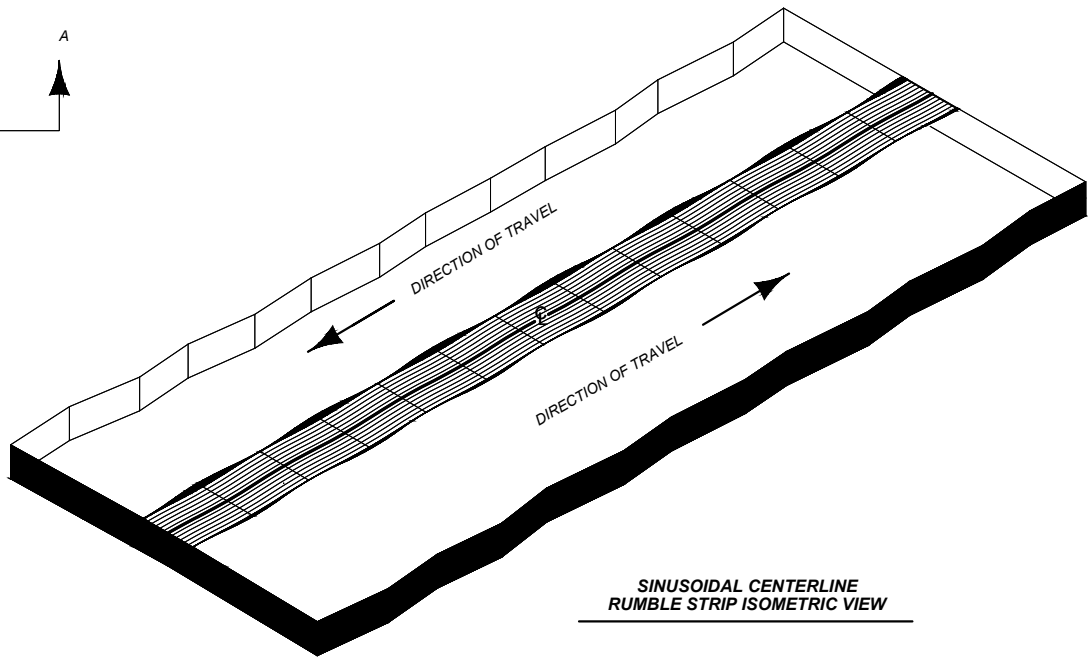
SINUSOIDAL CENTERLINE
RUMBLE STRIP APPROACH DETAIL



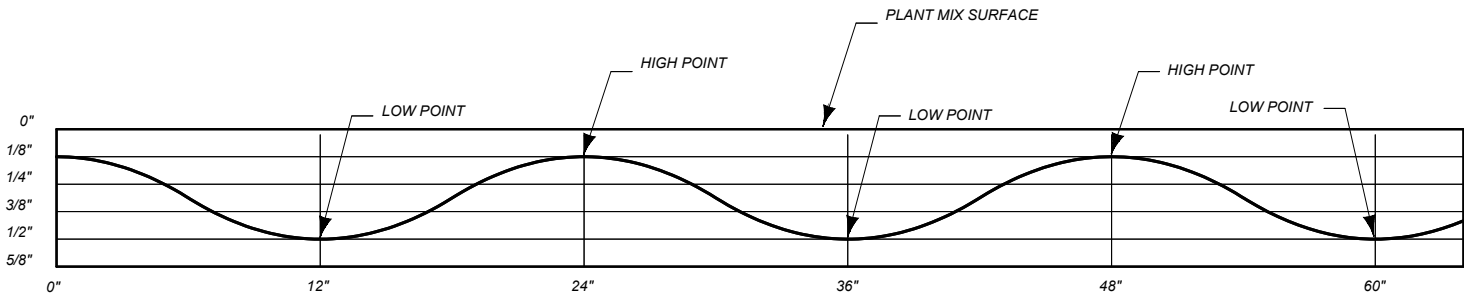
SINUSOIDAL CENTERLINE RUMBLE STRIP
WITH TAPERED GROOVE PLAN VIEW



SECTION A-A



SINUSOIDAL CENTERLINE
RUMBLE STRIP ISOMETRIC VIEW



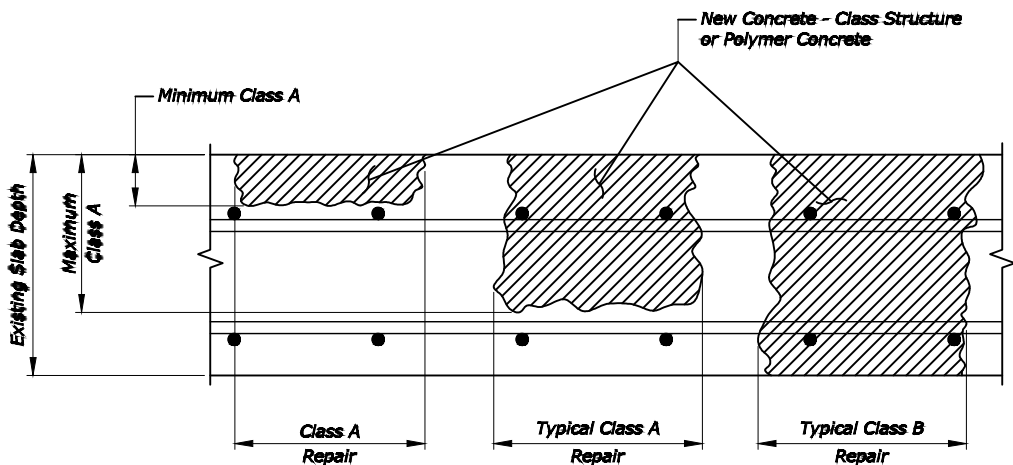
SINUSOIDAL CENTERLINE
RUMBLE STRIP PROFILE VIEW

EXAGGERATED VERTICAL SCALE 10:1

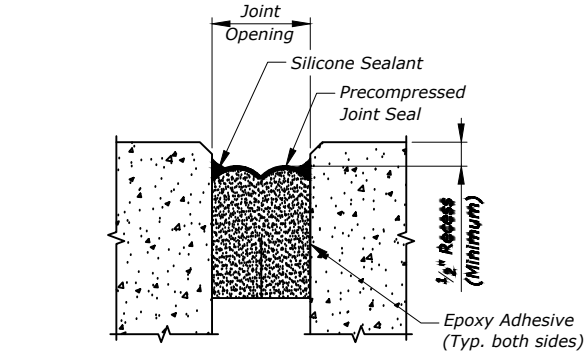
NOTES:
BREAK SINUSOIDAL CENTERLINE RUMBLE STRIPS FOR PUBLIC APPROACHES ONLY.
DO NOT INSTALL SINUSOIDAL CENTERLINE RUMBLE STRIPS ON CONCRETE
BRIDGE DECKS AND CONCRETE BRIDGE APPROACH SLABS.
DO NOT INSTALL SINUSOIDAL CENTERLINE RUMBLE STRIPS IN AREAS POSTED
AT 45 MPH OR LESS.
ROUTES WITHIN DESIGNATED CITY OR URBAN LIMITS USE ENGINEERING
JUDGEMENT ON A CASE BY CASE BASIS TO DETERMINE IF SINUSOIDAL
CENTERLINE RUMBLE STRIP INSTALLATION IS APPROPRIATE.
MINIMUM VERTICAL MILLING DEPTHS AND DIFFERENCE BETWEEN MILLING HIGH POINTS
AND LOW POINTS SHOWN IN DETAIL. ADDITIONAL 1/8" DEPTH OF MILLING IS ALLOWABLE
ON INSTALLATION OF SINUSOIDAL CENTERLINE RUMBLE STRIP.
SEE DETAILED DRAWING 620-30 FOR CENTERLINE RUMBLE STRIP PAVEMENT MARKING
INFORMATION.

ADVERTISED COPY

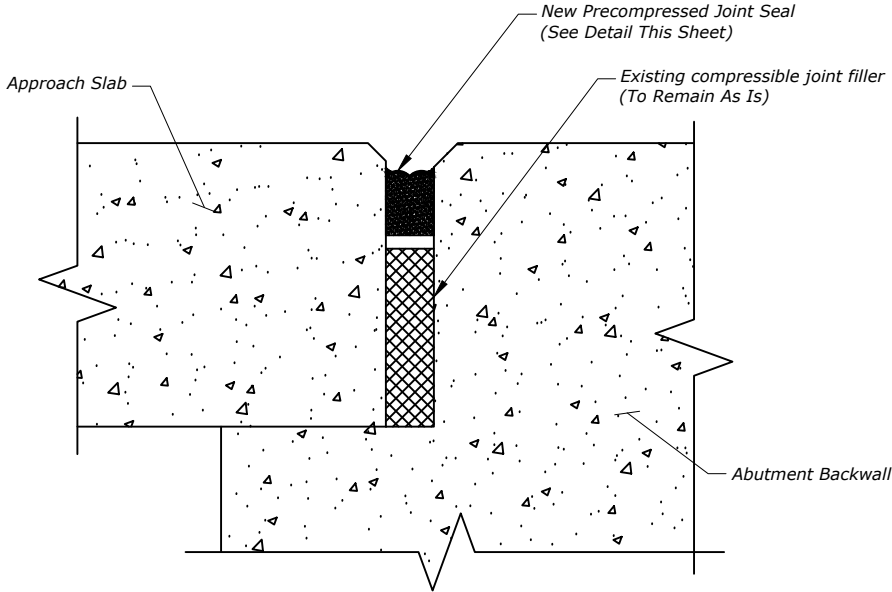
DETAIL



BRIDGE DECK REPAIR AND THIN OVERLAY DEFINITION
No Scale
(05767, 05944)



PRECOMPRESSED JOINT SEAL DETAIL
No Scale
(05767)



APPROACH SLAB JOINT SEAL DETAIL
No Scale
(05767)

SHEET NO.

10

BRIDGE WORK

PROJECT NAME	SANDERS COUNTY PAVE PRES
COUNTY	SANDERS COUNTY
PROJECT ID	STPP 6-1(188)0
UPN	10686000

DESIGNED BY	03/2026
REVIEWED BY	03/2026
CHECKED BY	05/2026



MONTANA

Department of Transportation

ROAD PLANS

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MONTANA DEPARTMENT OF TRANSPORTATION

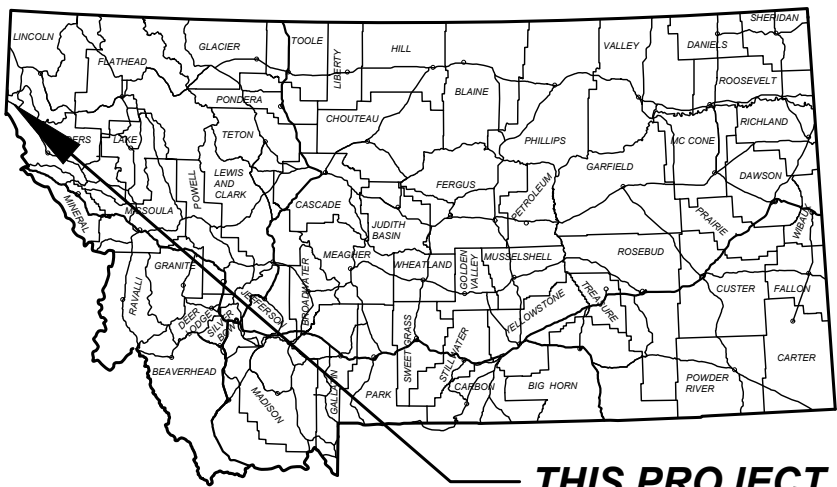
FEDERAL AID PROJECT STPP 6-1(182)2
MT-200 SLIDE REPAIRS - HERON
DIGOUTS & DRAINAGE IMPROVEMENTS
SANDERS COUNTY

LENGTH N/A MILES

SHEET NO.

1

TITLE SHEET



PROJECT DESIGN DATA

PRESENT 2025 A.D.T. = 1,430
LETTING 2026 A.D.T. = 1,440
DESIGN 2046 A.D.T. = 1,760
D.H.V. = 210
TRUCKS = 7.1%
V. = 45 MPH
18 KIP ESAL'S = 48 DAILY
ANNUAL GROWTH RATE = 1.0%

ASSOCIATED PROJECT
AGREEMENT NUMBERS

R/W	#####
I. C.	STPP 6-1(189)2
P. E.	STPP 6-1(181)2

RELATED PROJECTS

STPP 6-1(188)0

SURFACING SOURCES -
CONTRACTOR FURNISHED

SITE 1
STA 27+50.00 to 33+55.50
RP 3.2 to RP 3.3

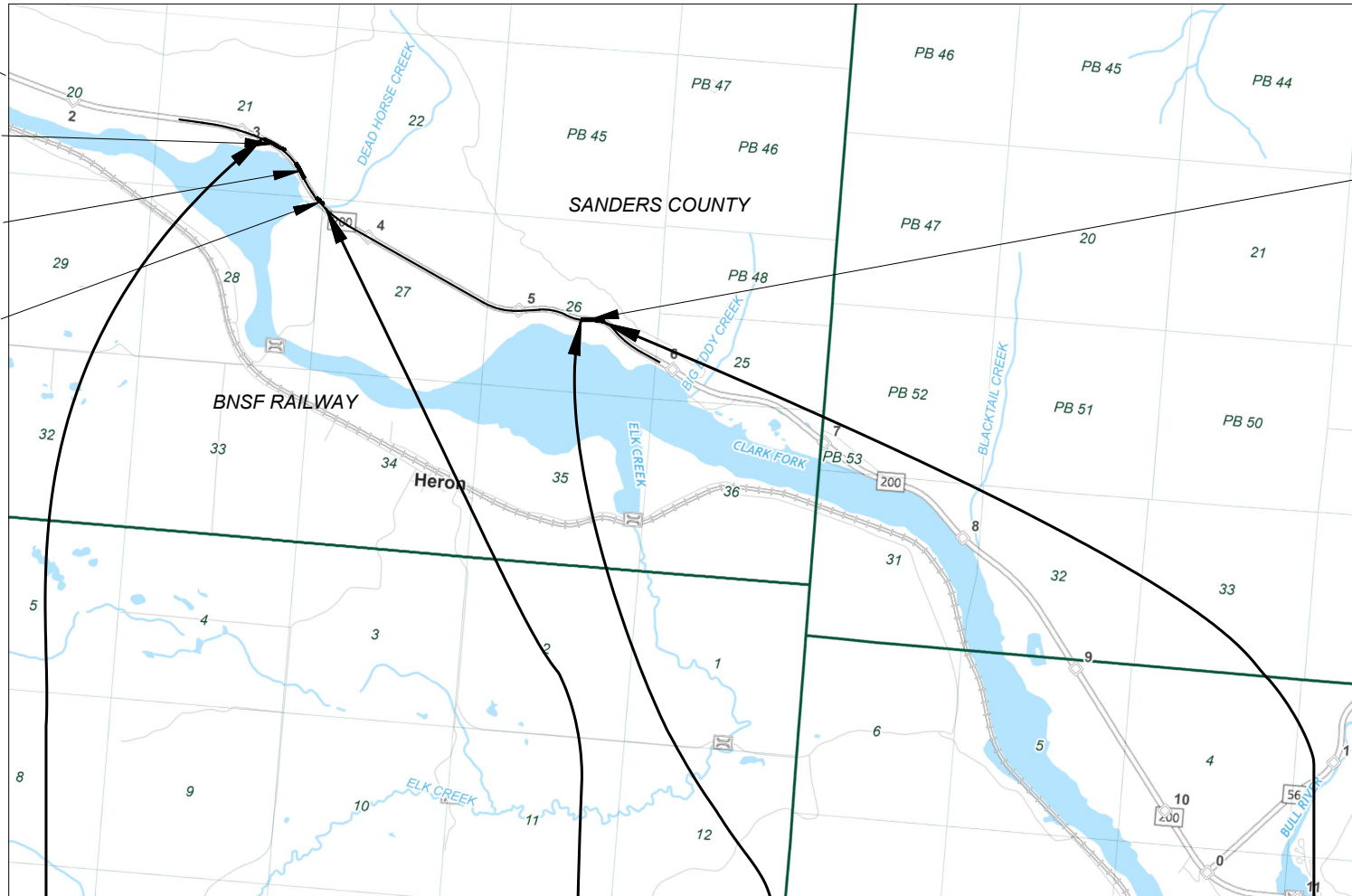
SITE 2
STA 38+50.00 to 43+51.09
RP 3.4 to RP 3.5

SITE 3
STA 51+00.00 to 53+67.05
RP 3.6 to RP 3.7

SITE 4
STA 143+00.00 to 150+00.00
RP 5.4 to RP 5.5

T 27 N

T 26 N



STA 660+01.32
ON AR-5018 =

STA 27+50.00
BEG. STPP 6-1(182)2

RP 3.2 TO RP 3.7
THIS CONTRACT

STA 53+67.05
END STPP 6-1(182)2 =

STA 633+83.98
ON AR-5018

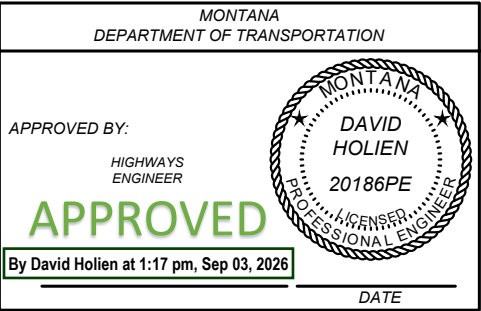
STA 541+31.93
ON AR-5018 =

STA 143+00.00
BEG. STPP 6-1(182)2

RP 5.4 TO RP 5.5
THIS CONTRACT

STA 150+00.00
END STPP 6-1(182)2 =

STA 533+96.23
ON AR-5018



PROJECT NAME
MT-200 SLIDE REPAIRS - HERON

COUNTY
SANDERS

PROJECT ID
STPP 6-1(182)2

UPN
10396000

DESIGNED BY
J. MCKINNEY

REVIEWED BY
MM/YYYY

CHECKED BY
J. CERCK

DATE
5/2026



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ROAD PLANS

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BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)	
COMP. AGGREGATE WEIGHT	= 3700 LBS. PER CUBIC YARD
COMP. WEIGHT OF PL. MIX BIT. SURF.	= 3855 LBS. PER CUBIC YARD
ASPHALT BINDER - GRADE S - 1/2" AGG.	= 5.8% OF PL.MIX BIT.SURF.
HYDRATED LIME	= 1.4% OF PL.MIX BIT.SURF.
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)
EMULSIFIED ASPHALT SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

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.

AS-BUILTS

FOR ORIGINAL HORIZONTAL ALIGNMENT AND STATIONING. REFER TO THE FOLLOWING "AS-BUILT" PROJECT:

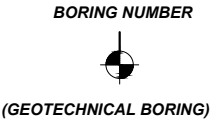
AR-5018

HORIZONTAL ALIGNMENT

THE ALIGNMENT USED IN THESE PLANS IS A BEST FIT COMBINATION OF THE AS-BUILT GEOMETRY AND THE SURVEYED CENTERLINE.

SOILS INFORMATION

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

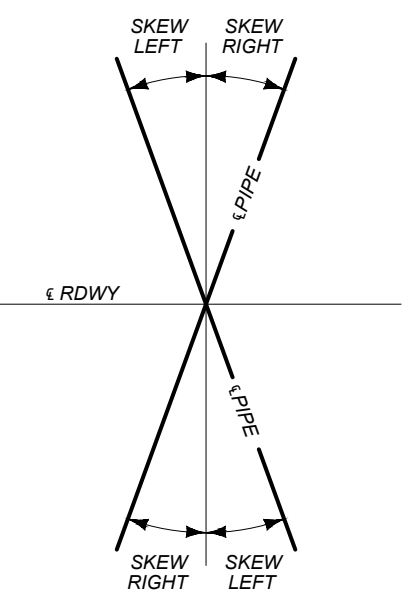


INSTRUMENT PROTECTION

PROTECT GEOTECHNICAL INSTRUMENT DEVICES TO THE GREATEST EXTENT POSSIBLE, AT THE FOLLOWING LOCATIONS (PER THE DIRECTION OF THE PROJECT MANAGER AND THE GEOTECHNICAL SECTION):

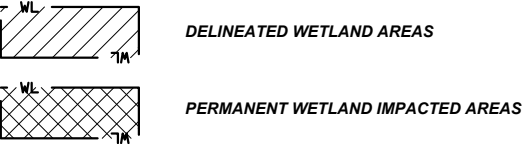
BORING 3.6-1, STA. 52+06, 23 FT. LT.
BORING 3.4-5, STA. 40+56, 35 FT. LT.
BORING N-18, STA. 146+57, 24 FT. LT.

SKEW DIAGRAM



WETLANDS

WETLANDS EXIST ADJACENT TO THE ROADWAY AND MAY EXIST BEYOND THE PROJECT LIMITS. WETLAND AREAS AND PERMANENT WETLAND IMPACT AREAS WITHIN THE PROJECT LIMITS HAVE BEEN DELINEATED AND ARE SHOWN ON THE PLANS. ANY ACTION IMPACTING WETLAND AREAS OUTSIDE OF THE PERMANENT IMPACT AREAS SHOWN IS THE RESPONSIBILITY OF THE CONTRACTOR.



WETLAND DELINEATION TABLE					
WETLAND DESIGNATION	STATION		WETLAND AREA (acres)		REMARKS
			DELINEATED AREA	PERMANENT IMPACTED AREA	
	FROM	TO			
WL-11 #	35+32	35+53	0.002		LT.
WL-10a #	37+32	37+42	0.002		LT.
WL-9b #	43+75	49+46	0.094		LT.
WL-9a #	49+46	52+01	0.212	0.035	LT.
WL-8c #	50+46	53+26	0.304		RT.
WL-8b #	52+43	55+05	0.102		RT.
WL-8a #	54+51	55+40	0.055		LT.
WL-6 #	57+75	60+88	0.075		RT.
WL-7 #	58+67	59+39	0.008		LT.
WL-5 #	123+94	124+57	0.018		LT.
WL-4 #	149+58	151+73	0.081		LT.
TOTAL			0.95	0.04	

AREA OF EXISTING WETLAND EXTENDS BEYOND PLAN LIMITS.

SHEET NO.

2

TABLE OF CONTENTS & NOTES

PROJECT NAME
MT-200 SLIDE REPAIRS - HERON

COUNTY

SANDERS

PROJECT ID

STPP 6-1(182)2

UPN

10396000

DESIGNED BY
J. MCKINNEY

03/2026

REVIEWED BY
FIRST INITIAL LAST NAME

MM/YYYY

CHECKED BY
J. CERECK

5/2026

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ROAD PLANS

6/23/2026 4:00 PM

CENTERLINE
COORDINATE TABLE

CENTERLINE COORDINATE TABLE - MAINLINE				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
-0+99.60	BOA	1,464,467.874	383,811.430	BEGIN PROJECT ALIGNMENT
6+17.64	TS	1,464,369.737	384,521.930	
10+17.64	SC	1,464,310.735	384,917.536	
27+19.05	CS	1,463,797.531	386,534.055	
27+50.00		1,463,784.133	386,561.946	BEGIN PROJECT, BEGIN SITE 1
31+19.05	SC	1,463,604.873	386,884.216	
33+55.50		1,463,461.778	387,072.248	END SITE 1
38+20.60	CS	1,463,116.010	387,381.460	
38+50.00		1,463,091.665	387,397.954	BEGIN SITE 2
42+20.60	ST	1,462,771.229	387,583.841	
43+51.09		1,462,656.372	387,645.778	END SITE 2
44+52.08	PC	1,462,567.484	387,693.713	
48+72.27	PT	1,462,208.095	387,911.099	
49+46.73	PC	1,462,146.365	387,952.738	
51+00.00		1,462,022.962	388,043.570	BEGIN SITE 3
51+60.67	PT	1,461,976.246	388,082.275	
51+78.76	PC	1,461,962.509	388,094.038	
53+67.05		1,461,822.440	388,219.843	END SITE 3
54+95.80	PT	1,461,730.156	388,309.620	
55+02.52	PC	1,461,725.414	388,314.385	
63+69.93	PT	1,461,202.342	389,003.102	
111+83.58	PC	1,458,826.851	393,189.785	
123+19.97	PT	1,458,571.462	394,281.238	
129+54.09	PC	1,458,607.202	394,914.353	
137+54.30	PT	1,458,461.152	395,693.213	
139+69.87	PC	1,458,371.854	395,889.412	
143+00.00		1,458,292.638	396,207.986	BEGIN SITE 4
143+55.50	PT	1,458,291.002	396,263.468	
145+61.37	PC	1,458,291.283	396,469.333	
148+07.80	PT	1,458,271.287	396,714.667	
148+90.85	PC	1,458,257.725	396,796.608	
150+00.00		1,458,229.806	396,901.953	END SITE 4, END PROJECT
152+74.46	PT	1,458,077.849	397,127.376	
155+19.31	PC	1,457,896.816	397,292.230	
164+95.94	PT	1,457,296.596	398,056.915	
171+30.59	EOA	1,456,992.986	398,614.231	END PROJECT ALIGNMENT

PROJECT NAME
MT-200 SLIDE REPAIRS - HERON

COUNTY

SANDERS

PROJECT ID

STPP 6-1(182)2

UPN

10396000



ROAD PLANS

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CONTROL DIAGRAM

SHEET NO.
4

CONTROL DIAGRAM

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 0.999456760

BEARING SOURCE
GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011

LEVEL DATUM SOURCE
NAVD 88 (GNSS DERIVED ELEVATIONS USING GEOID 12A)



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CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
5E	1,457,440.653	397,763.957	2,331.16
E522	1,458,192.467	387,999.085	2,317.35
JB5992	1,460,909.452	389,393.071	2,297.87
JT5992	1,462,548.343	381,684.721	2,246.62
MD5992	1,450,249.669	406,680.525	2,302.71

 MONTANA Department of Transportation	DESIGNED BY J. MCKINNEY	PROJECT NAME MT-200 SLIDE REPAIRS - HERON
	REVIEWED BY FIRST INITIAL LAST NAME MM/YYYY	COUNTY SANDERS
	CHECKED BY J. CEREC	PROJECT ID STPP 6-1(182)2
		UPN 10396000
ROAD PLANS		
6/18/2026 10:53 AM		

TYPICAL SECTION NO. 1

MAINLINE - SITE 4

143+00.00

143+00.00

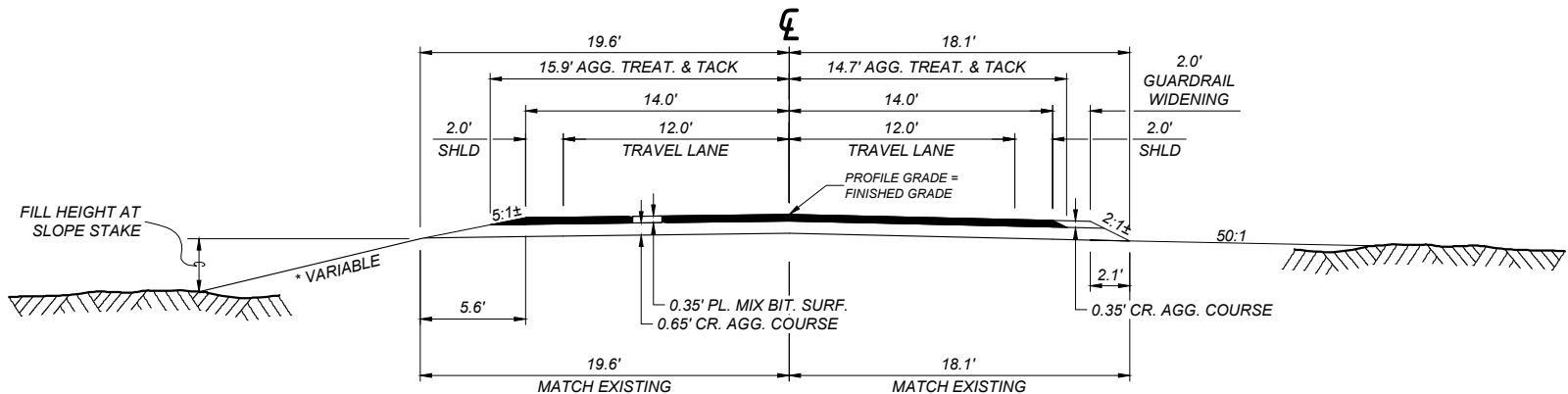
TO 143+10.00

ONLY

TRANS. TYP. NO. 1 TO TYP. NO. 2

(LT. LN. -1.30% & RT. LN. -2.30% TO

LT. LN -1.75% & RT. LN. -2.00%)



MATCH EXISTING LANE WIDTHS AND CROSS SLOPES
SEE CROSS SECTIONS

QUANTITIES MEASURED IN CAD

*FILL SLOPES		*BACK SLOPES	
0' - 10'	6:1	0' - 5'	5:1
10' - 20'	4:1	5' - 10'	4:1
20' - 30'	3:1	10' - 15'	3:1
OVER 30'	2:1	OVER 20'	2:1

*SEE CROSS SECTIONS FOR DEVIATIONS

TYPICAL SECTION NO. 2

MAINLINE - SITE 4

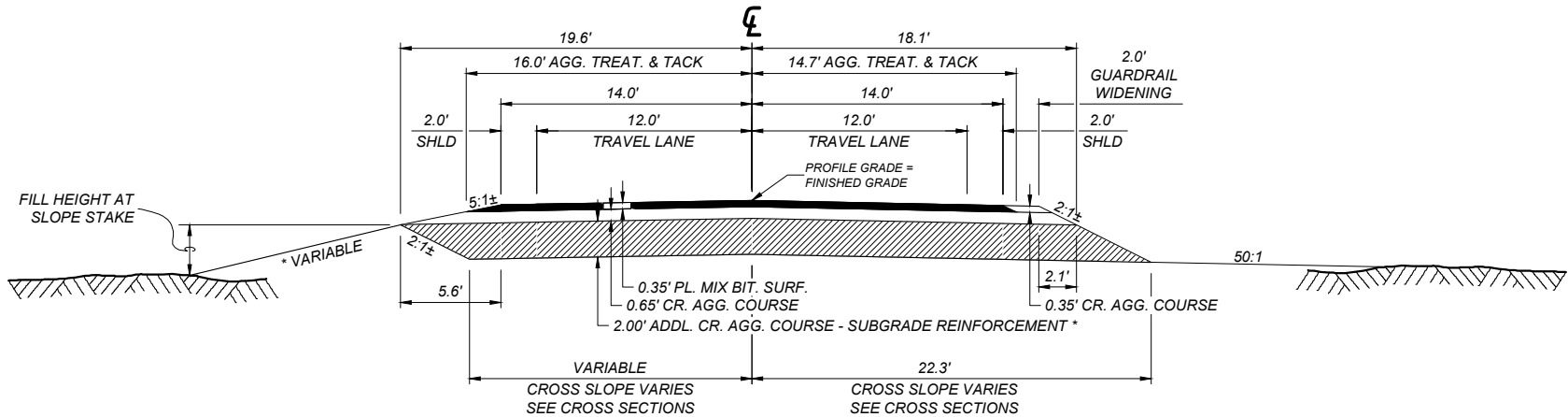
143+10.00

TO 145+89.50

THEN TO TYP. NO. 3

(143+15.40 TO 144+24.97: NC

144+24.97 TO 145+89.50: TRANS. NC TO 5.48% RT.)



QUANTITIES MEASURED IN CAD

SEE CROSS SECTIONS FOR VARYING SUBGRADE DAYLIGHT CONFIGURATIONS

* ADDL. CR. AGG. COURSE QUANTIFIED IN SUBGRADE REINFORCEMENT FRAME
SEE DETAIL

SHEET NO.

5

TYPICAL SECTIONS

PROJECT NAME
MT-200 SLIDE REPAIRS - HERON

COUNTY

SANDERS

PROJECT ID

STPP 6-1(182)2

UPN

10396000

DESIGNED BY

J. MCKINNEY

03/2026

REVIEWED BY

FIRST INITIAL LAST NAME

MM/YYYY

CHECKED BY

J. CERECK

5/2026

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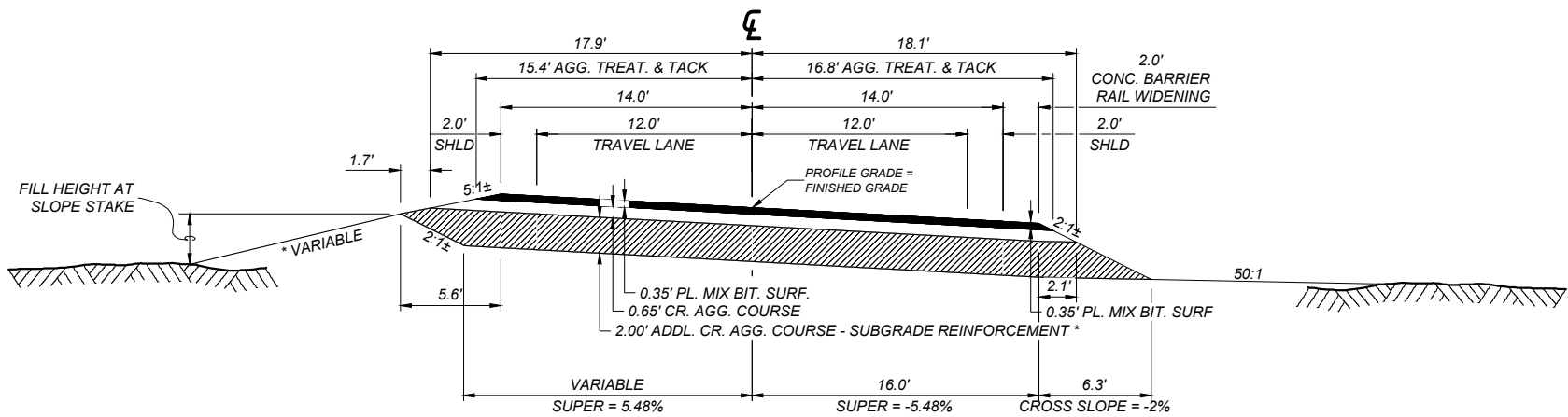


ROAD PLANS

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TYPICAL SECTION NO. 3
MAINLINE - SITE 4

145+89.50 TO 146+00.97
ONLY
TRANS. TYP. NO. 3 TO TYP. NO. 4
(LT. LN. 5.48% & RT. LN. -5.48% TO
LT. LN 6.00% & RT. LN. -6.00%)



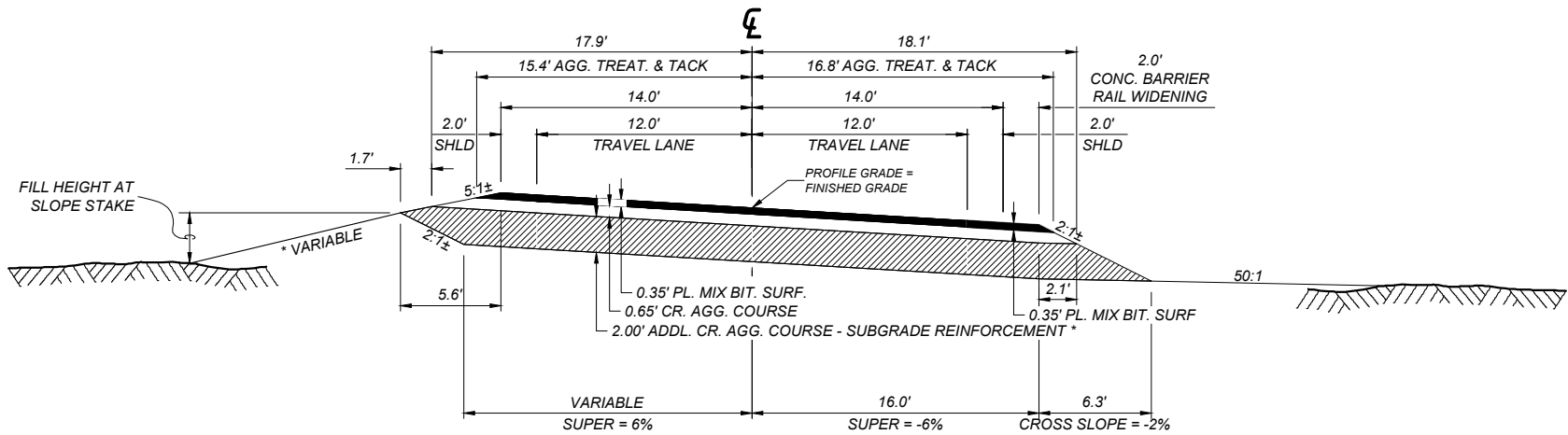
QUANTITIES MEASURED IN CAD
SEE CROSS SECTIONS FOR VARYING SUBGRADE DAYLIGHT CONFIGURATIONS
* ADDL. CR. AGG. COURSE QUANTIFIED IN SUBGRADE REINFORCEMENT FRAME
SEE DETAIL

*FILL SLOPES		*BACK SLOPES	
0' - 10'	6:1	0' - 5'	5:1
10' - 20'	4:1	5' - 10'	4:1
20' - 30'	3:1	10' - 15'	3:1
OVER 30'	2:1	OVER 20'	2:1

*SEE CROSS SECTIONS FOR DEVIATIONS

146+00.97 TO 149+00.00 THEN TO TYP. NO. 5

TYPICAL SECTION NO. 4
MAINLINE - SITE 4



QUANTITIES MEASURED IN CAD
SEE CROSS SECTIONS FOR VARYING SUBGRADE DAYLIGHT CONFIGURATIONS
* ADDL. CR. AGG. COURSE QUANTIFIED IN SUBGRADE REINFORCEMENT FRAME
SEE DETAIL

SHEET NO.

6

TYPICAL SECTIONS

PROJECT NAME
MT-200 SLIDE REPAIRS - HERON

COUNTY
SANDERS

PROJECT ID
STPP 6-1(182)2

UPN
10396000

DESIGNED BY
J. MCKINNEY

REVIEWED BY
FIRST INITIAL LAST NAME MM/YYYY

CHECKED BY
J. CERECK

5/2026
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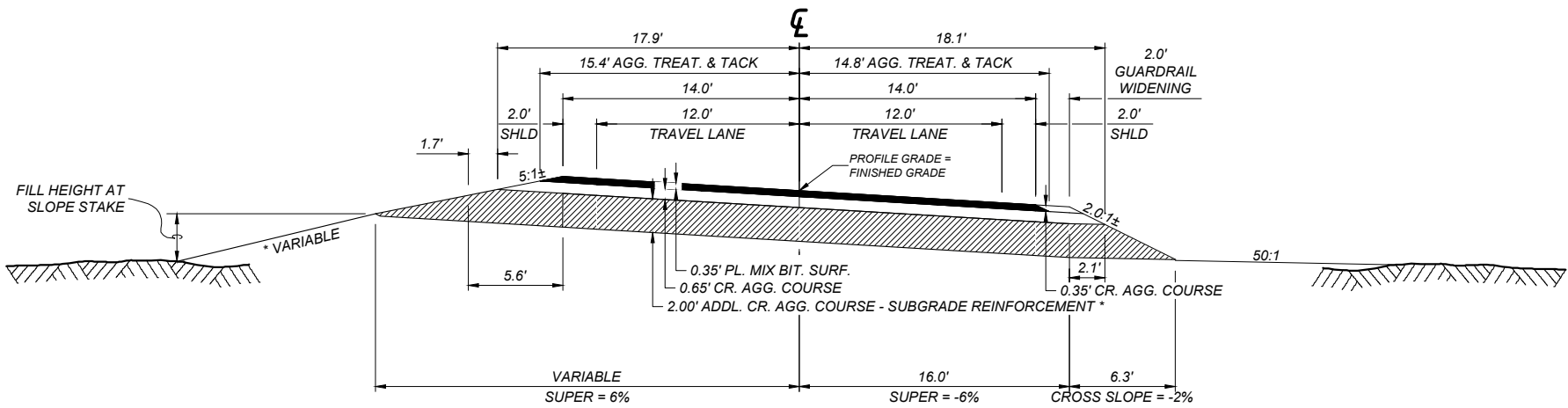
ROAD PLANS

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TYPICAL SECTION NO. 5

MAINLINE - SITE 4

149+00.00 TO 149+78.00
149+78.00 TO 149+90.00
TRANS. TYP. NO. 5 TO TYP. NO. 6



QUANTITIES MEASURED IN CAD
SEE CROSS SECTIONS FOR VARYING SUBGRADE DAYLIGHT CONFIGURATIONS
* ADDL. CR. AGG. COURSE QUANTIFIED IN SUBGRADE REINFORCEMENT FRAME
SEE DETAIL

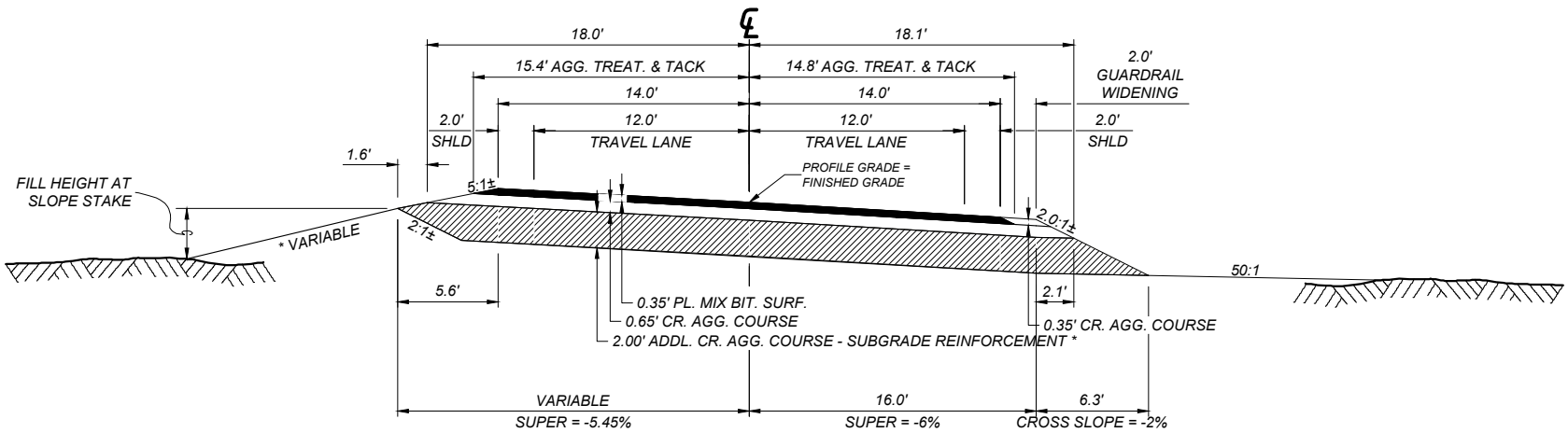
*FILL SLOPES		*BACK SLOPES	
0' - 10'	6:1	0' - 5'	5:1
10' - 20'	4:1	5' - 10'	4:1
20' - 30'	3:1	10' - 15'	3:1
OVER 30'	2:1	OVER 20'	2:1

*SEE CROSS SECTIONS FOR DEVIATIONS

TYPICAL SECTION NO. 6

MAINLINE - SITE 4

149+90.00 ONLY
149+90.00 TO 150+00.00
TRANS. TYP. NO. 6 TO TYP. NO. 7



QUANTITIES MEASURED IN CAD
SEE CROSS SECTIONS FOR VARYING SUBGRADE DAYLIGHT CONFIGURATIONS
* ADDL. CR. AGG. COURSE QUANTIFIED IN SUBGRADE REINFORCEMENT FRAME
SEE DETAIL

SHEET NO.

7

TYPICAL SECTIONS

PROJECT NAME
MT-200 SLIDE REPAIRS - HERON

COUNTY

SANDERS

PROJECT ID

STPP 6-1(182)2

UPN

10396000

DESIGNED BY

J. MCKINNEY

03/2026

REVIEWED BY

FIRST INITIAL LAST NAME

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CHECKED BY

J. CERECK

5/2026

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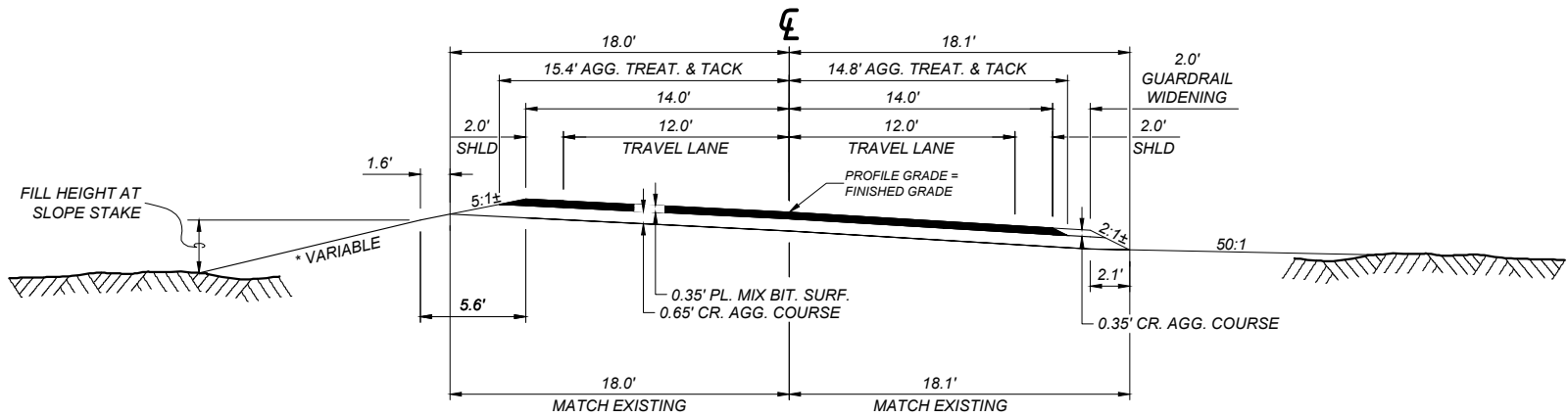


ROAD PLANS

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TYPICAL SECTION NO. 7

MAINLINE - SITE 4



MATCH EXISTING LANE WIDTHS AND CROSS SLOPES
SEE CROSS SECTIONS
QUANTITIES MEASURED IN CAD

*FILL SLOPES		*BACK SLOPES	
0' - 10'	6:1	0' - 5'	5:1
10' - 20'	4:1	5' - 10'	4:1
20' - 30'	3:1	10' - 15'	3:1
OVER 30'	2:1	OVER 20'	2:1

*SEE CROSS SECTIONS FOR DEVIATIONS

TYPICAL SECTIONS

PROJECT NAME
MT-200 SLIDE REPAIRS - HERON

COUNTY

SANDERS

PROJECT ID

STPP 6-1(182)2

UPN

10396000

DESIGNED BY
J. MCKINNEY

03/2026

REVIEWED BY
FIRST INITIAL LAST NAME

MM/YYYY

CHECKED BY
J. CERECK

5/2026

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ROAD PLANS

8/10/2026 5:55 PM

SUMMARY

SHEET NO.

9

SUMMARIES

SURFACING												
STATION		linear feet				FOR	AGGREGATE			BITUMINOUS MATERIAL	sq. yards	REMARKS
		GROSS	NET	+	-		tons	cu. yards		gals.		
							COMMERCIAL MIX-1/2 IN-PG 58V-34	CRUSHED AGG. COURSE	SHOULDER GRAVEL	EMULSIFIED ASPHALT TACK *	AGG. TREAT.	
FROM	TO											
143+00.00	150+00.00	700.00	700.00				490	594		252	2,516	SITE 4, RP 5.4. ALL TYPICALS COMBINED, MEASURED IN CAD
						ADDITIONAL SURFACING		194	25			
TOTAL		700.00	700.00	~	~		490	788	25	252	2,516	

* BASED ON 2 APPLICATIONS

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)												
STATION		linear feet				FOR	AGGREGATE			BITUMINOUS MATERIAL	sq. yards	REMARKS
		GROSS	NET	+	-		tons	cu. yards		gals.	agg. treat.	
							COMMERCIAL MIX- 1/2 IN-PG 58V-34	CRUSHED AGG. COURSE	SHOULDER GRAVEL	EMULSIFIED ASPHALT TACK		
FROM	TO											
						2 - PRIVATE APPROACHES		5				PRIVATE APPROACH TOP SURFACE REGRADING - AS NEEDED. 39+03 LT. 52+35 LT.
146+00.00	149+00.00							189				SITE 4 - SHOULDER WIDENING
148+83.83	150+00.00								25			SITE 4 - GUARDRAIL END SECTION WIDENING LT.
SUBTOTAL		~	~	~	~		~	194	25	~	~	

GRADING				
STATION	cu. yards			REMARKS
	UNCL. EXC.	EXCESS EXC.	EMB. +	
27+50.00				
	135	-70	205	SITE 1 - DITCH GRADING
32+97.00				
38+50.00				
	520	-225	745	SITE 2 - DITCH GRADING
43+51.09				
51+00.00				
	80	-90	170	SITE 3 - DITCH GRADING WEST OF APPR
52+07.60				
52+59.10				
	75	20	55	SITE 3 - DITCH GRADING EAST OF APPR
53+67.05				
143+00.00	3,120	3,105	15	SITE 4 - ROADWAY EXCAVATION
150+00.00				
TOTAL	3,930	# 2,740	# 1,190	

FOR INFORMATION ONLY

ADDITIONAL GRADING				
STATION		cu. yards		REMARKS
		INCL. IN ROADWAY		
		UNCL. EXC.	EMB.+	
FROM	TO			
27+50.00	32+97.00		105	SITE 1 - TOPSOIL REPLACEMENT
38+50.00	43+51.09		220	SITE 2 - TOPSOIL REPLACEMENT
51+00.00	53+67.05		130	SITE 3 - TOPSOIL REPLACEMENT
143+00.00	150+00.00		55	SITE 4 - TOPSOIL REPLACEMENT
148+43.00	149+35.00	180		SITE 4 - ADDITIONAL EXCAVATION
31+60.00	32+97.00	75	5	SITE 1 - PRIVATE APPROACH DITCHLINE GRADING
52+07.60	52+59.10	25		SITE 3 - PRIVATE APPROACH GRADING
TOTAL		~	~	

GEOSYNTHETIC CLAY LINED DITCH *			
STATION		sq. yards	REMARKS
		GEOSYNTHETIC CLAY LINER	
FROM	TO		
31+60.00	32+97.00	180	SITE 1 (RP 3.2) APPROACH DITCHLINE
38+50.00	43+51.09	1,200	SITE 2 (RP 3.4)
TOTAL		1,380	

* SEE DETAILS AND CROSS SECTIONS

PLANT MIX DITCH *						
STATION		linear feet	gals.			REMARKS
		CURB - SPECIAL DESIGN ##	PLANT MIX DITCH	EMULSIFIED ASPHALT TACK	EMULSIFIED ASPHALT FOG SEAL	
FROM	TO	9"			COMM. PLANT MIX - MISC.	
27+50.00	31+60.00		410	14	36	62
29+40.00	31+00.00	160				
TOTAL		160	410	# 14	# 36	# 62

FOR INFORMATION ONLY, INCLUDED IN THE COST OF PLANT MIX DITCH - LINEAR FOOT
* SEE DETAIL AND CROSS SECTIONS
CURB - SPECIAL DESIGN - PAID FOR AS CONC. MEDIAN CURB TYPE A, SEE DETAIL.

PROJECT NAME
MT-200 SLIDE REPAIRS - HERON

COUNTY
SANDERS

PROJECT ID
STPP 6-1(182)2

UPN
10396000

DESIGNED BY
J. MCKINNEY

03/2026

REVIEWED BY
FIRST INITIAL LAST NAME

MM/YYYY

CHECKED BY
J. CERECK

5/2026

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SUMMARY

SHEET NO.
10

SUMMARIES

REVEGETATION												
STATION		cu. yards	acres							sq. yards		REMARKS
		TOPSOIL SALVAGING & PLACING	SEEDING AREA NO. 1	SEEDING AREA NO. 2	SEEDING AREA NO. 3	FERTILIZING AREA NO. 1	FERTILIZING AREA NO. 2	CONDITION SEEDBED SURFACE	MULCH	TURF REINF MAT - SYNTHETIC FIBER *	EROSION CONTROL BLANKET - LONG TERM	
FROM	TO											
27+50	31+60	55										SITE 1 - PLANT MIX DITCH
29+85	30+85									111		SITE 1 - LT*
31+60	32+97	30			0.04			0.04			265	SITE 1 - GEOSYNTHETIC CLAY LINED DITCH
38+50	43+51	180		0.13	0.20		0.13	0.20	0.13		1,616	SITE 2 - GEOSYNTHETIC CLAY LINED DITCH
51+00	52+08	45		0.08			0.08		0.08			SITE 3 - DITCH GRADING
52+08	52+59	10		0.02			0.02		0.02			SITE 3 - APPROACH GRADING
52+59	53+67	40	0.07			0.07		0.07				SITE 3 - DITCH GRADING
143+00	150+00	45			0.17			0.17				SITE 4 GRADING
TOTAL		405	0.1	0.2	0.4	0.1	0.2	# 0.5	0.2	111	1881	

FOR INFORMATION ONLY
* AS NEEDED AT THE DIRECTION OF THE PROJECT MANAGER

CLEARING & GRUBBING			
STATION		acres	REMARKS
		CLEARING AND GRUBBING	
FROM	TO		
27+50	32+97	0.2	SITE 1 - RP 3.2
38+50	43+51	0.2	SITE 2 - RP 3.4
51+00	53+67	0.2	SITE 3 - RP 3.6
143+00	150+00	0.1	SITE 4 - RP 5.4
TOTAL		0.7	

SUBSURFACE DRAIN										
STATION		linear feet		sq. yards	cu. yards				each	REMARKS
		15" CORRUGATED POLYETHYLENE PIPE		GEOTEXTILE SUBSURFACE DRAINAGE FILTER	TRENCH EXC. #	GRANULAR BEDDING MATERIAL	SPECIAL BACKFILL	EMB.+ *	ACCESS CLEANOUT TEE #	
		PERFORATED	NON-PERFORATED	HIGH SURVIVABILITY CLASS B						
FROM	TO	PERFORATED	NON-PERFORATED							
51+00.00	52+07.60	108		205	85	67	9	9	2	SITE 3 (RP 3.6) - LT.
52+07.60	53+67.00		158							SITE 3 (RP 3.6) - LT.
SUBTOTAL		108	158	205	85	67	9	9	2	
TOTAL		266		205	~	67	9	~	~	

FOR INFORMATION ONLY, INCLUDED IN THE COST OF THE 15" CORRUGATED POLYETHYLENE PIPE
* INCLUDED IN GRADING QUANTITIES

SUBGRADE REINFORCEMENT *							
STATION		cu. yards		sq. yards			REMARKS
		CRUSHED AGGREGATE COURSE	SPECIAL BORROW - NEAT LINE	STABILIZATION GEOTEXTILE	BIAXIAL GEOGRID	UNIAXIAL GEOGRID	
FROM	TO						
143+00.00	150+00.00	1,975	180	2,847	11,387	770	SITE 4
TOTAL		1,975	180	2,847	11,387	770	

* SEE DETAIL, INCLUDES THE ADDITIONAL EXCAVATION AREA

GUARDRAIL														
STATION		linear feet				each				each				REMARKS
		REMOVE GUARDRAIL		RESET GUARDRAIL **		MGS LONG POST GUARDRAIL		RESET CONCRETE BARRIER RAIL		RESET OPTIONAL TERMINAL SECTION		BRIDGE APPROACH SECTION TYPE 2		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
SITE 2														
38+50.00	38+74.00	25.0		25.0										
38+74.00	38+82.00	37.5		37.5										RESET 24' RADIUS INTERSECTING ROADWAY TERMINAL SECT.
SITE 4														
142+89.70	145+89.70		300.0				275.0						1	INCLUDES 2 25.0' MASH TO W-BEAM TRANSITION SECTIONS *
145+89.70	149+00.00								31					
149+31.65	150+03.55	71.9		25.0						1				
149+00.00	150+00.00		100.0				75.0						1	INCLUDES 2 25.0' MASH TO W-BEAM TRANSITION SECTIONS #
SUBTOTAL		134.4	400.0	87.5	~	~	350.0	~	31	1	~	~	2	
TOTAL		534.4		87.5		350.0		31		1		2		

* GUARDRAIL TIES INTO EXISTING GUARDRAIL AT STA 142+89.70
GUARDRAIL TIES INTO EXISTING GUARDRAIL AT STA 150+00.00
** REMOVE GUARDRAIL AND CAREFULLY STOCKPILE GUARDRAIL FOR RE-USE AFTER CONSTRUCTION OPERATIONS. RESET GUARDRAIL AND IRT AFTER DITCH AND CULVERT WORK IS COMPLETED.

TEMPORARY BARRIER RAIL										
STATION		linear feet				each				REMARKS
		TEMPORARY BARRIER RAIL		RESET TEMPORARY BARRIER RAIL		TEMPORARY IMPACT ATTENUATOR		RESET TEMPORARY IMPACT ATTENUATOR		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
142+71.00	150+29.00	720			720	2			2	WORKZONE PROTECTION - SITE 4
SUBTOTAL		720	~	~	720	2	~	~	2	
TOTAL		720		720		2		2		

CULVERTS (INCLUDED IN CULVERT SUMMARY RECAP)			
STATION	cu. yards	CULVERT IN PL. in x ft	REMARKS
29+71	7	24" x 84" CMP	SITE 1
35+17		24" x 121" CMP	EAST OF SITE 1 - DO NOT DISTURB
43+71		24" x 98" CMP	EAST OF SITE 2 - DO NOT DISTURB
54+57		60" x 140" CMP	EAST OF SITE 3 - DO NOT DISTURB
142+68		24" x 122" CMP	WEST OF SITE 4 - DO NOT DISTURB
149+88		24" x 104" CMP	EAST END OF DIGOUT AT SITE 4 - DO NOT DISTURB
TOTAL		7	~

PROJECT NAME
MT-200 SLIDE REPAIRS - HERON

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SANDERS

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STPP 6-1(182)2

UPN
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REVIEWED BY
FIRST INITIAL LAST NAME
MM/YYYY

CHECKED BY
J. CERECK

5/2026

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MONTANA
Department of Transportation

ROAD PLANS

SUMMARIES

* COATING PER STANDARD SPEC. SECTION 709.05 & 709.12

BASED ON 2 APPLICATIONS.

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS


MONTANA
 Department of Transportation
ROAD PLANS
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PAVED DITCH & 9" CONCRETE CURB DETAIL
SITE 1

PROJECT NAME
MT-200 SLIDE REPAIRS - HERON

COUNTY

SANDERS

PROJECT ID

STPP 6-1(182)2

UPN

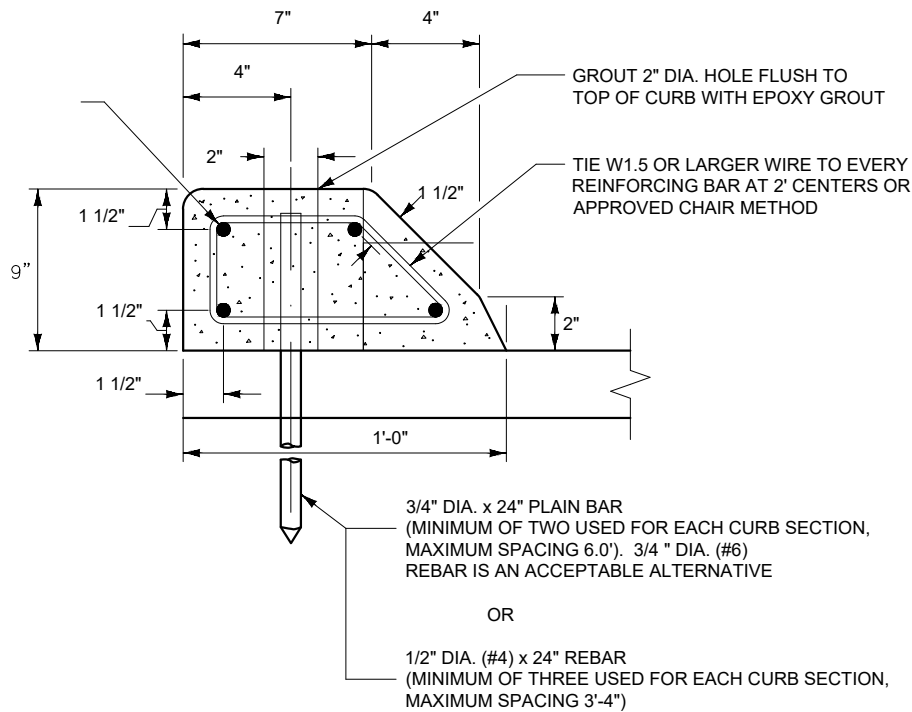
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ROAD PLANS

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9" CONCRETE CURB DETAIL



CONSTRUCTION:

- CURBS MAY BE CONSTRUCTED USING ANY OF THE FOLLOWING THREE METHODS:
(1) PRECAST
(2) CAST IN PLACE
(3) CONSTRUCTED BY THE USE OF AN APPROVED CURB FORMING OR SLIP FORM MACHINE.
- WHEN USING EITHER METHOD (2) OR (3), REINFORCING STEEL IS NOT REQUIRED, WITH THE EXCEPTION OF THE PINS. SCORE OR SAW CUT CURBS TO A DEPTH OF 1" TO FORM CONTRACTION JOINTS AT INTERVALS OF 10 FT. OR LESS. EXTEND 1/2" MIN. WIDTH EXPANSION JOINTS COMPLETELY THROUGH CURB EVERY 100 FT. ($\pm$ 30 FT.), AT INTERVALS EQUAL TO THE NEAREST MULTIPLE OF THE CONTRACTION JOINT INTERVAL AND FILL WITH PREFORMED EXPANSION JOINT FILLER MEETING SECTION 707.
- FORM PRECAST CURBS IN THEIR INVERTED POSITION, IN LENGTHS NOT LESS THAN 4 FT., OR MORE THAN 10 FT.
- ROUND ALL EXPOSED EDGES TO 3/4" RADIUS.

MATERIAL:

- CONSTRUCT CURBS WITH CLASS GENERAL CONCRETE OR AN APPROVED EQUIVALENT MIX.
- EPOXY BINDER FOR GROUTING MUST MEET THE REQUIREMENTS OF (AASHTO M 235) (ASTM C 881).

PAVED DITCH DETAIL

EXISTING SLOPE VARIES

9" CONC. CURB - SPECIAL DESIGN **

20:1

1.0'

VARIES (SEE CROSS SECTIONS)

TACK AND FOG SEAL

FORESLOPE WIDTH VARIES

4:1

FOG SEAL TOP SURFACE

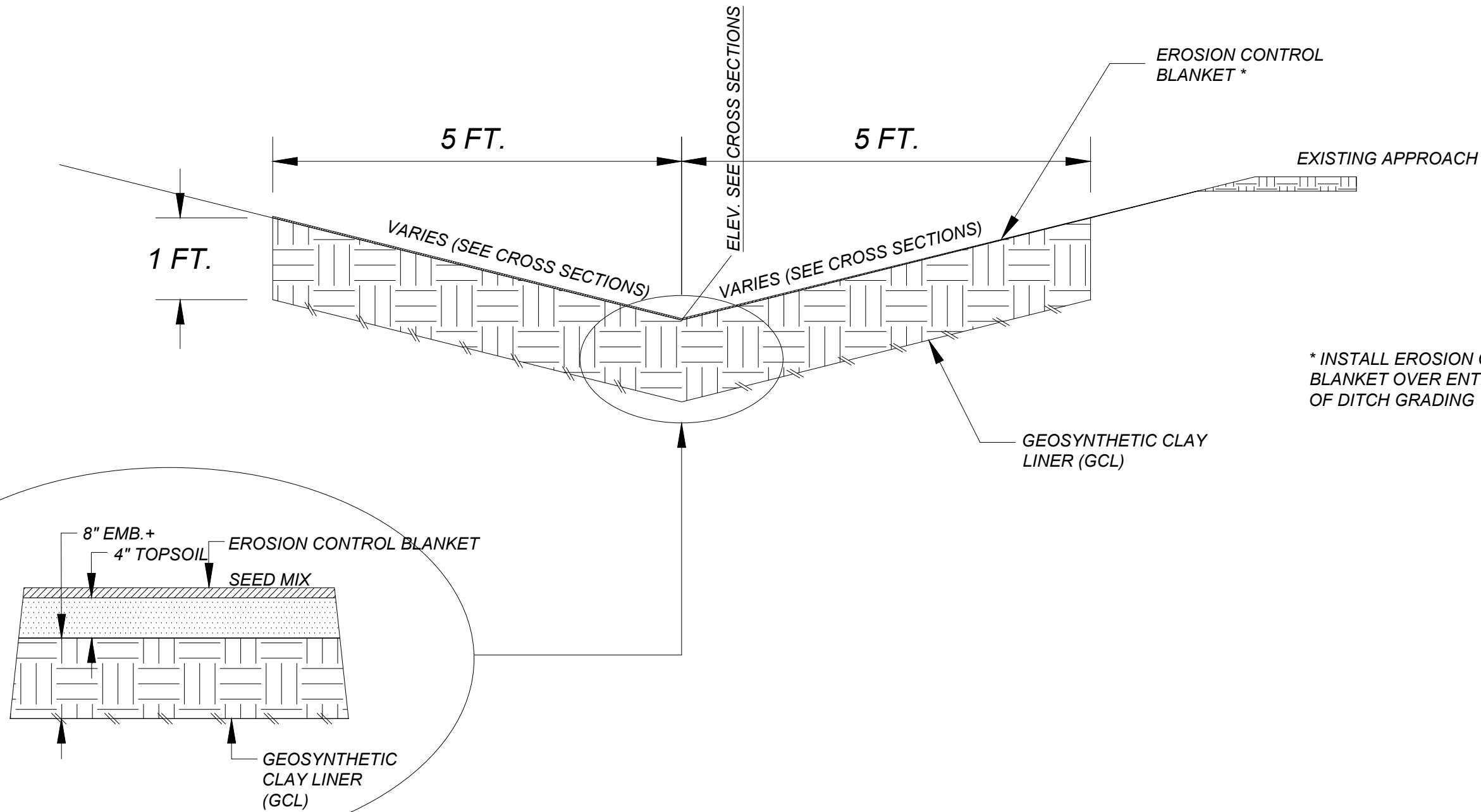
0.20' PL. MIX BIT. SURF.

1.0' TYP.
0.5 FT. MIN. ELEV. SEE CROSS SECTIONS

ASPHALT LINED DITCH STA 27+50.00 TO STA 31+60.00

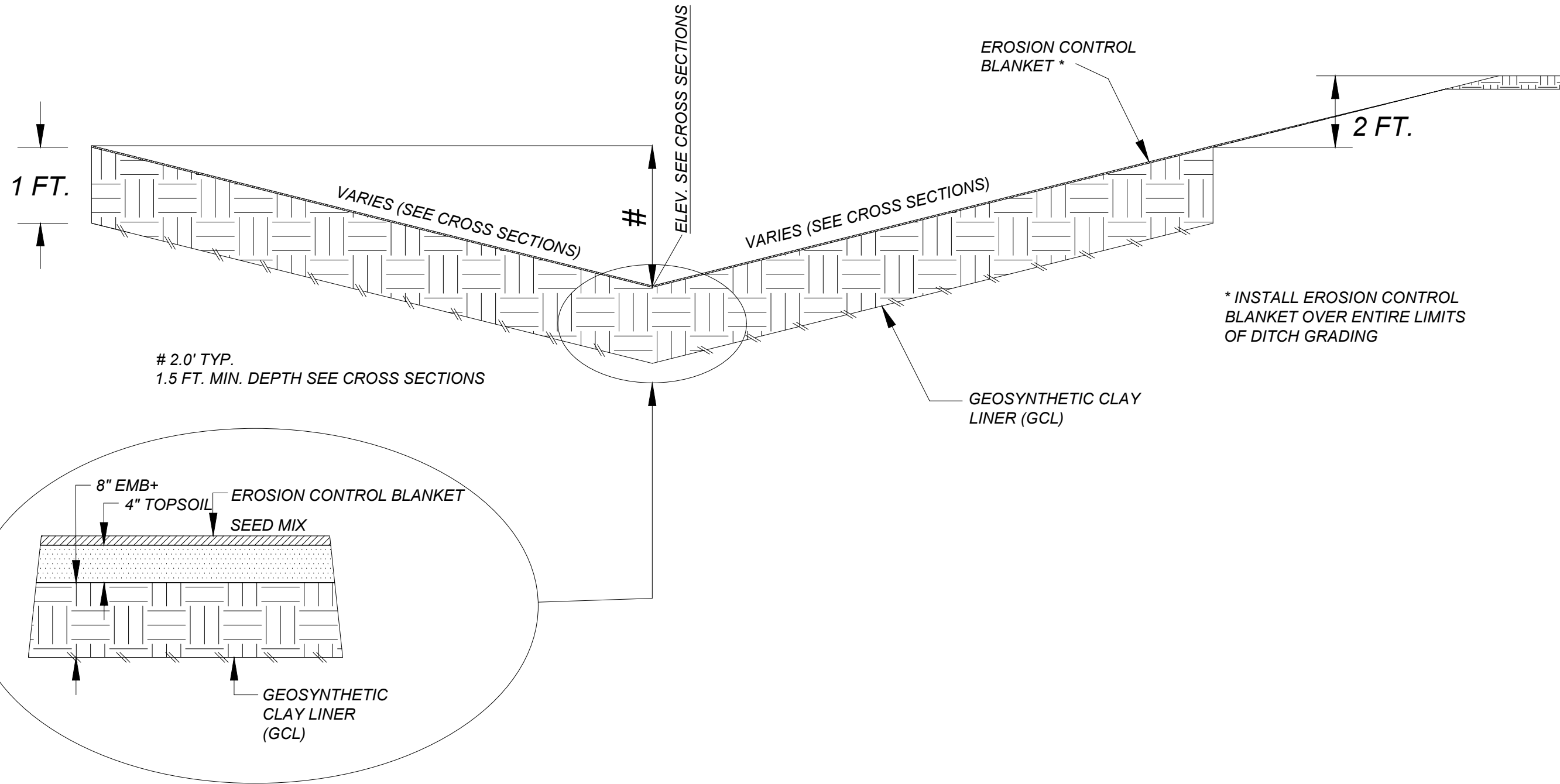
** CURBING STA. 29+40.00 - 31+00.00

SHAPE AND COMPACT DITCH SUBGRADE AS NECESSARY TO PROVIDE SUITABLE PAVING SURFACE. COMPACTION REQUIREMENTS FOR PLANT MIX AND GROUND ARE WAIVED BUT SUBJECT TO ENGINEER'S APPROVAL.



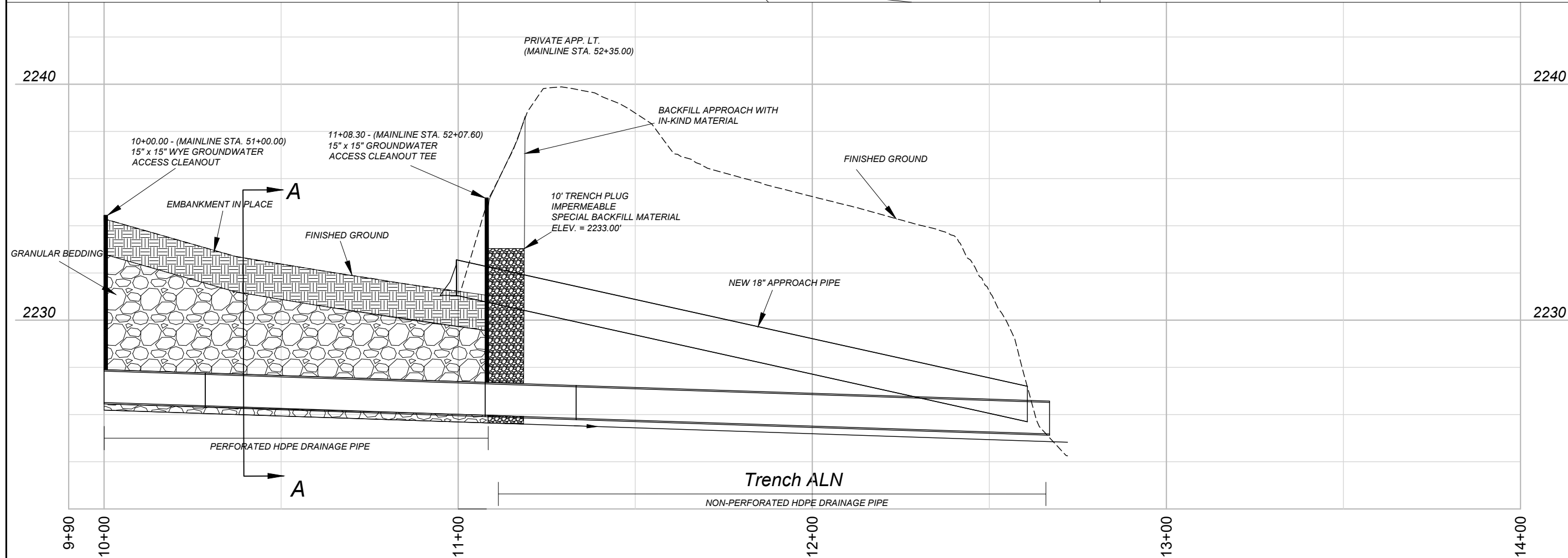
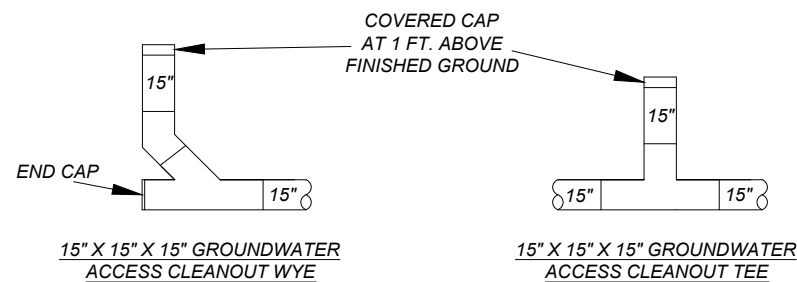
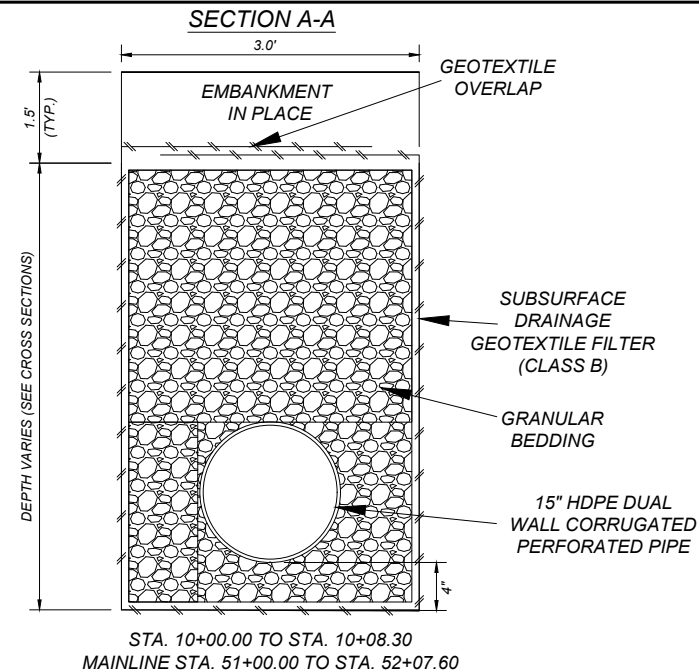
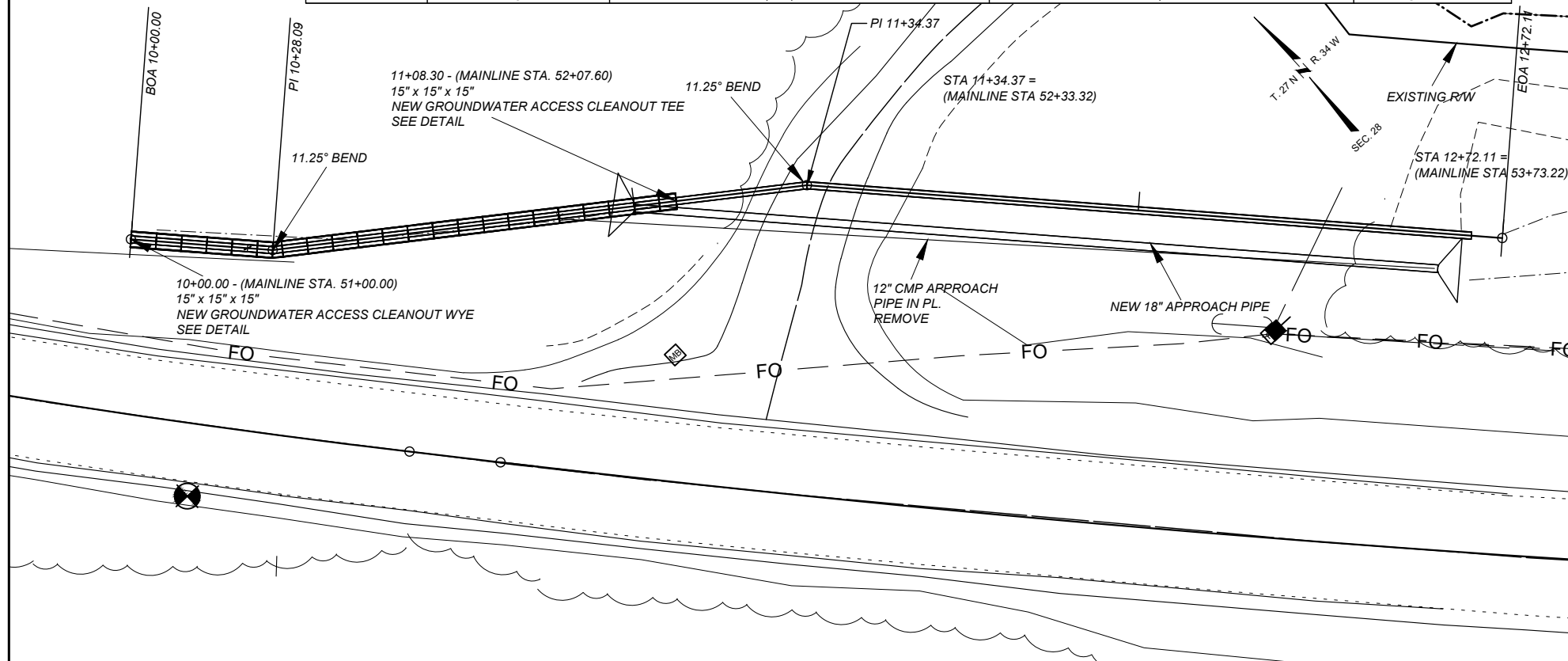
* INSTALL EROSION CONTROL
BLANKET OVER ENTIRE LIMITS
OF DITCH GRADING

DITCH REGRADING AND GEOSYNTHETIC CLAY LINER
SITE 1 STA (31+60.00 TO 32+97.00)



DITCH REGRADING AND LINING - SITE 2 (38+50.00 TO 43+51.09)

CENTERLINE COORDINATE TABLE - TRENCH DRAIN				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
10+00.00	BOA	1,462,044.352	388,070.256	BEGIN ALIGNMENT
10+28.09	PI	1,462,023.790	388,089.396	11.25° BEND
11+08.30	PI	1,461,940.667	388,112.879	15° x 15° x 15° TEE
11+34.37	PI	1,461,961.620	388,175.593	11.25° BEND
12+72.11	EOA	1,461,860.800	388,269.441	END ALIGNMENT



SUBGRADE REINFORCEMENT
DETAIL
SITE 4

PROJECT NAME
MT-200 SLIDE REPAIRS - HERON

COUNTY
SANDERS

PROJECT ID
STPP 6-1(182)2

UPN
10396000

DESIGNED BY
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03/2026

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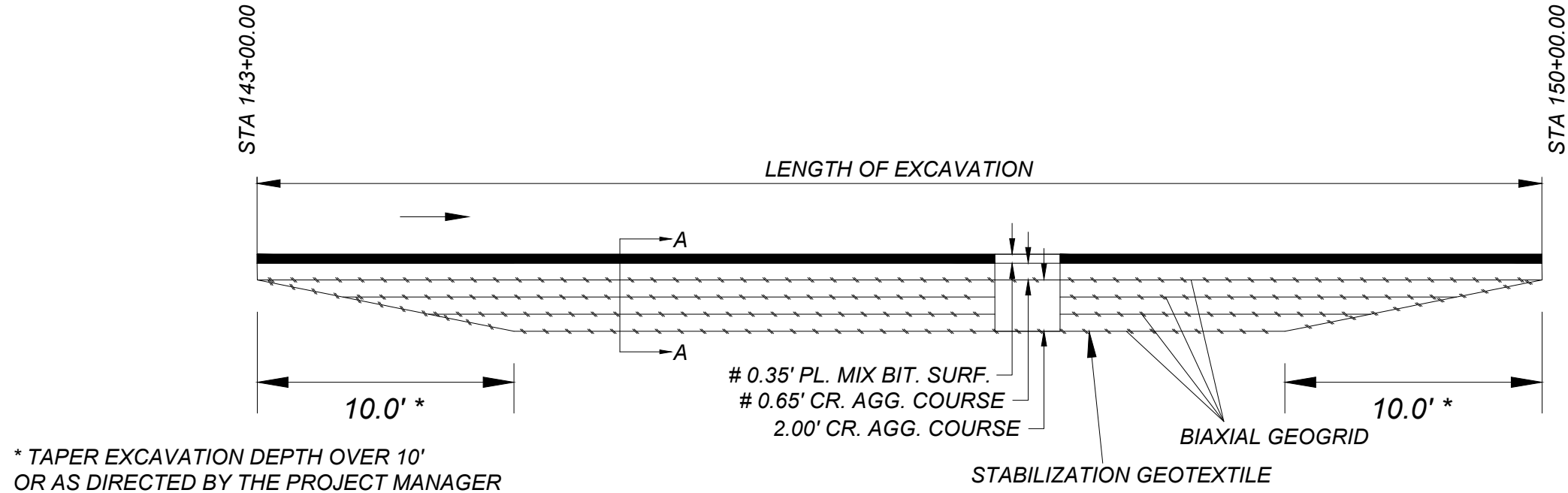
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ROAD PLANS

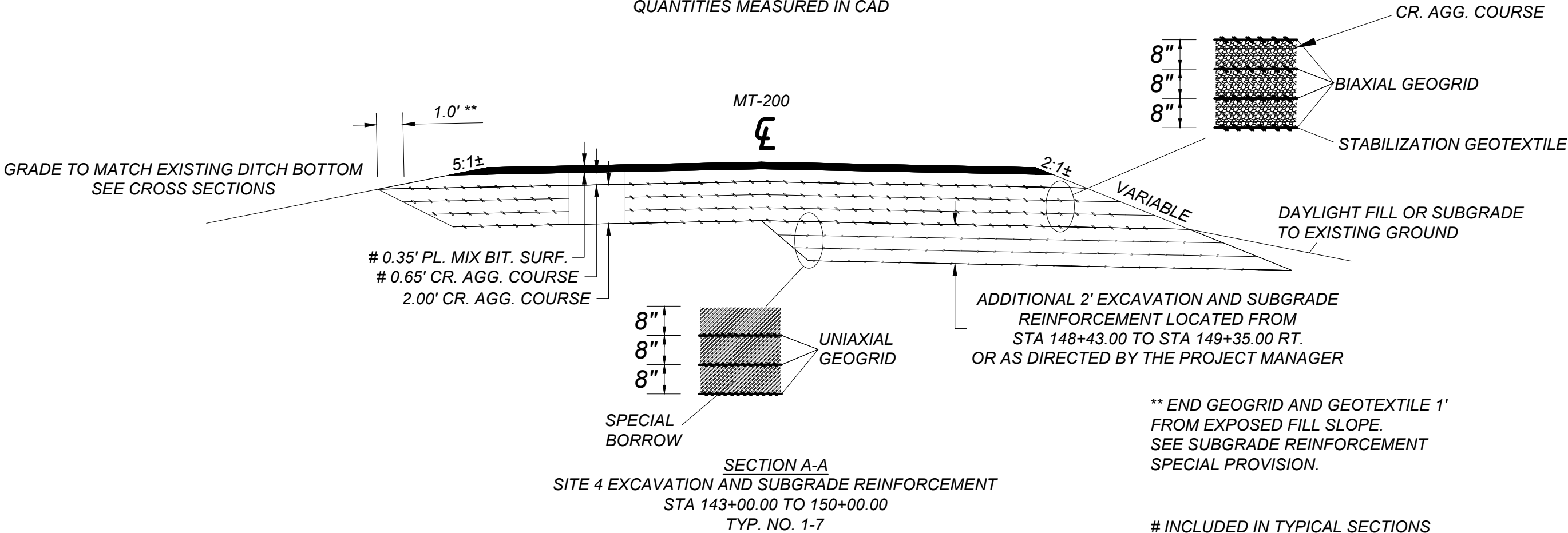
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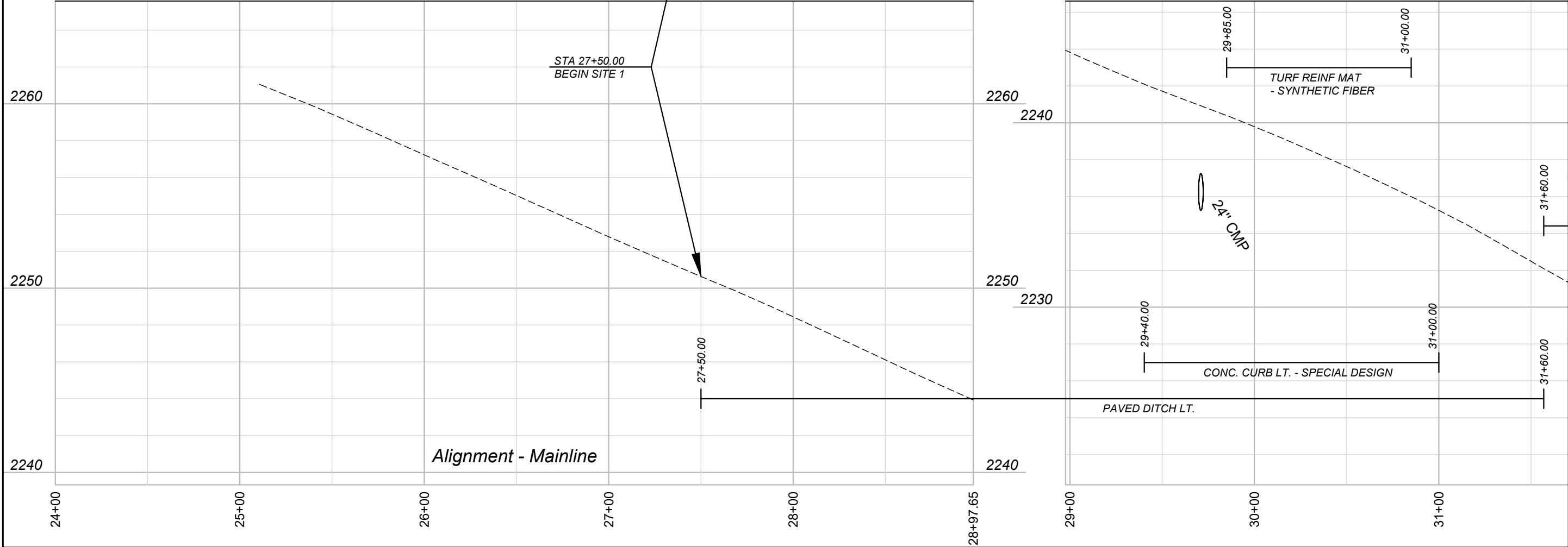
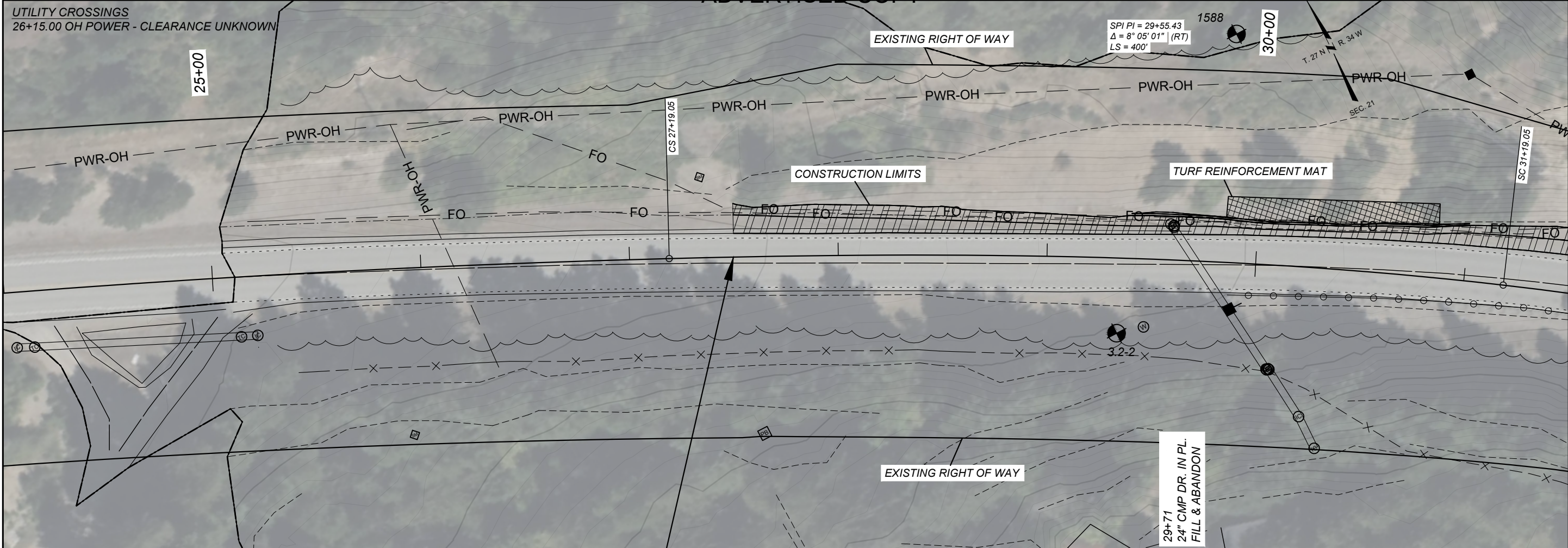


EXCAVATION AND SUBGRADE REINFORCEMENT BEGIN/END TRANSITION PROFILE

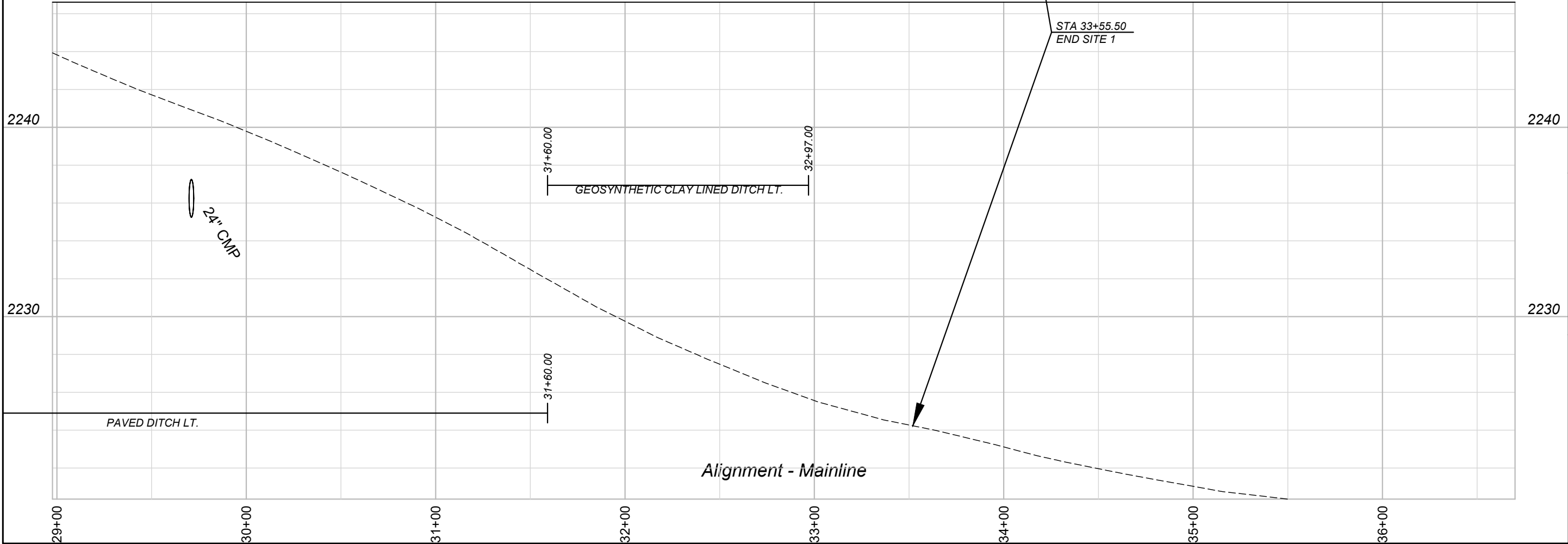
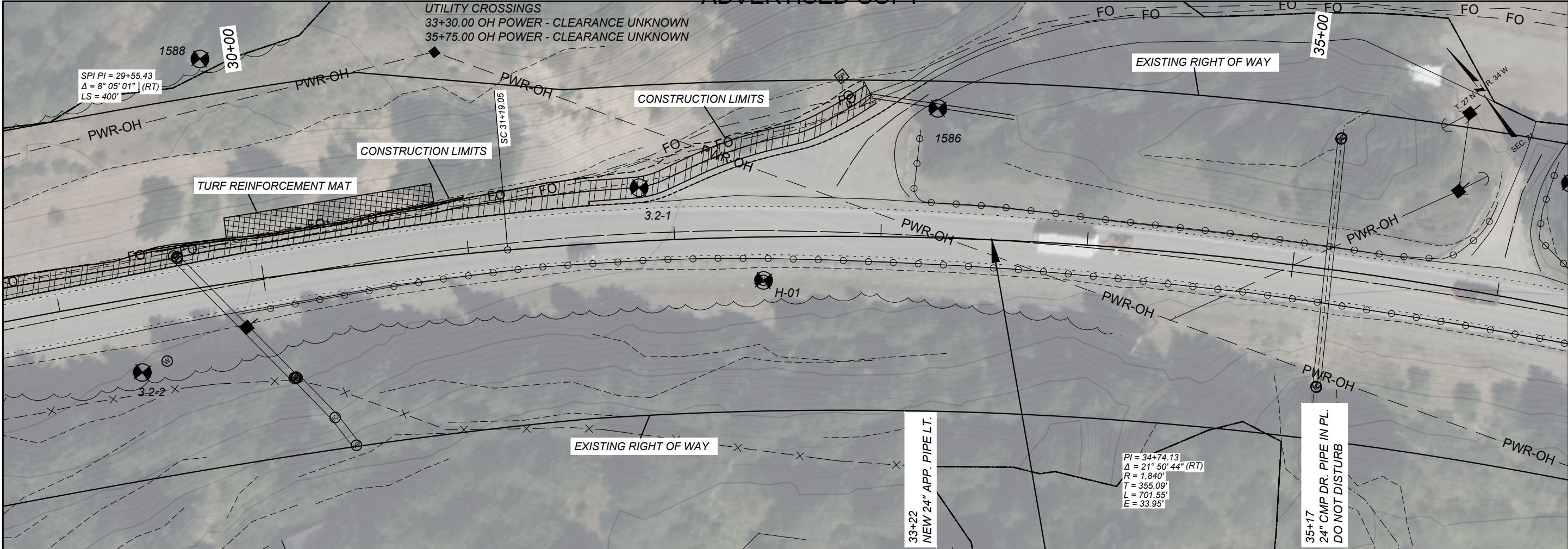
MATCH EXISTING LANE WIDTHS AND CROSS SLOPES
SEE CROSS SECTIONS

QUANTITIES MEASURED IN CAD





SHEET NO.		17
PLAN & PROFILE		SITE 1 - RP 3.2
PROJECT NAME	MT-200 SLIDE REPAIRS - HERON	
COUNTY	SANDERS	
PROJECT ID	STPP 6-1(182)2	
UPN	10396000	
DESIGNED BY	J. MCKINNEY	03/2026
REVIEWED BY		
FIRST INITIAL LAST NAME	MM/YYYY	
CHECKED BY	J. CEREC	5/2026
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MONTANA	Department of Transportation	
ROAD PLANS		
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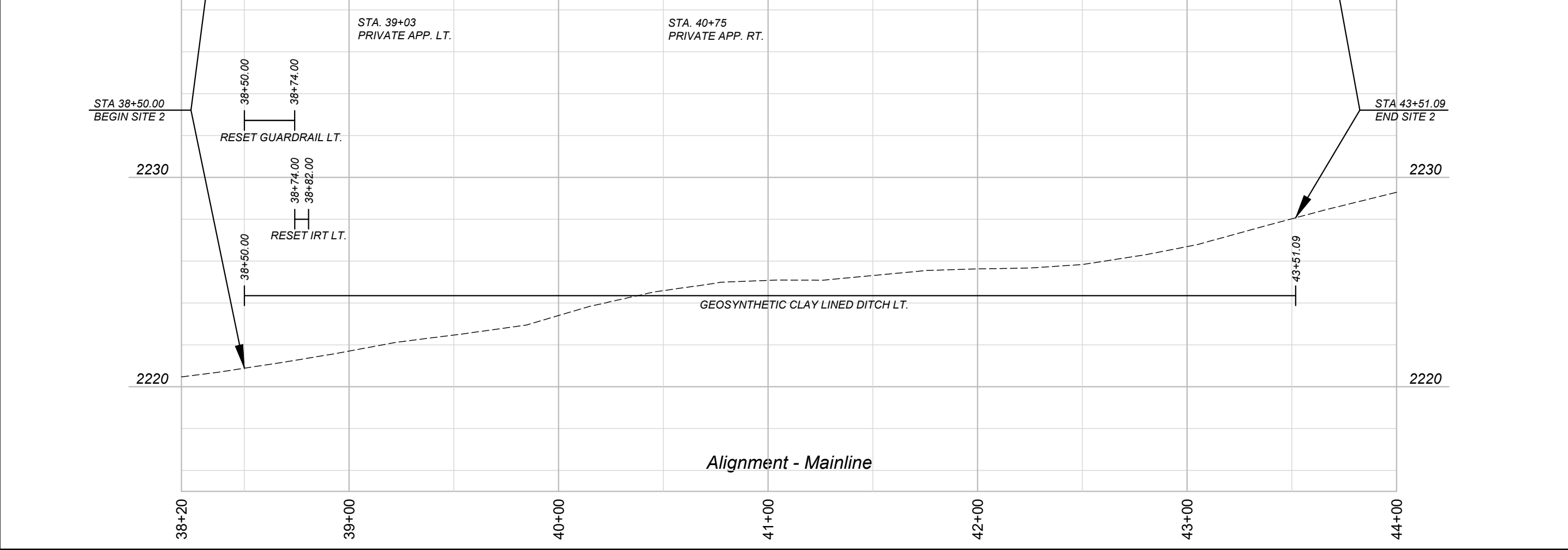
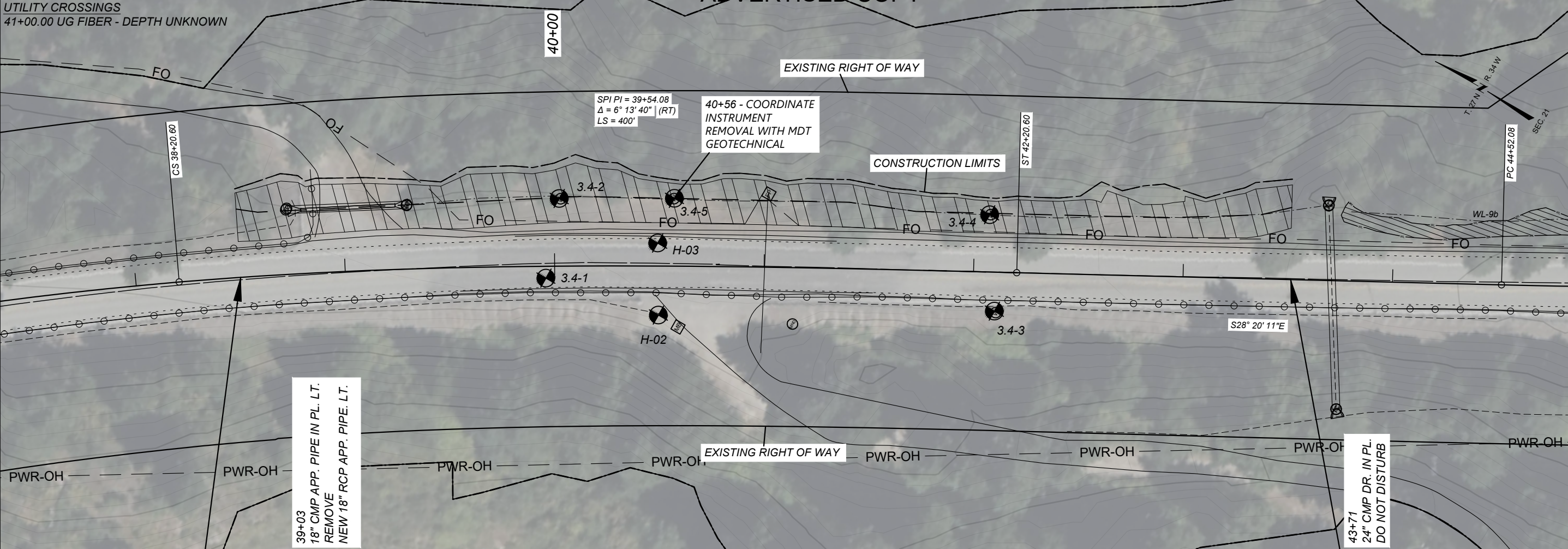
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PLAN & PROFILE		SITE 1 - RP 3.2	
PROJECT NAME MT-200 SLIDE REPAIRS - HERON	DESIGNED BY	J. MCKINNEY	03/2026
	COUNTY	SANDERS	
	REVIEWED BY	FIRST INITIAL LAST NAME	MM/YYYY
	CHECKED BY	J. CERECK	5/2026
PROJECT ID		STPP 6-1(182)2	
UPN		10396000	
MONTANA Department of Transportation		ROAD PLANS	
8/10/2026 5:57 PM		10396000RDPLP002.DWG	

UTILITY CROSSINGS
41+00.00 UG FIBER - DEPTH UNKNOWN

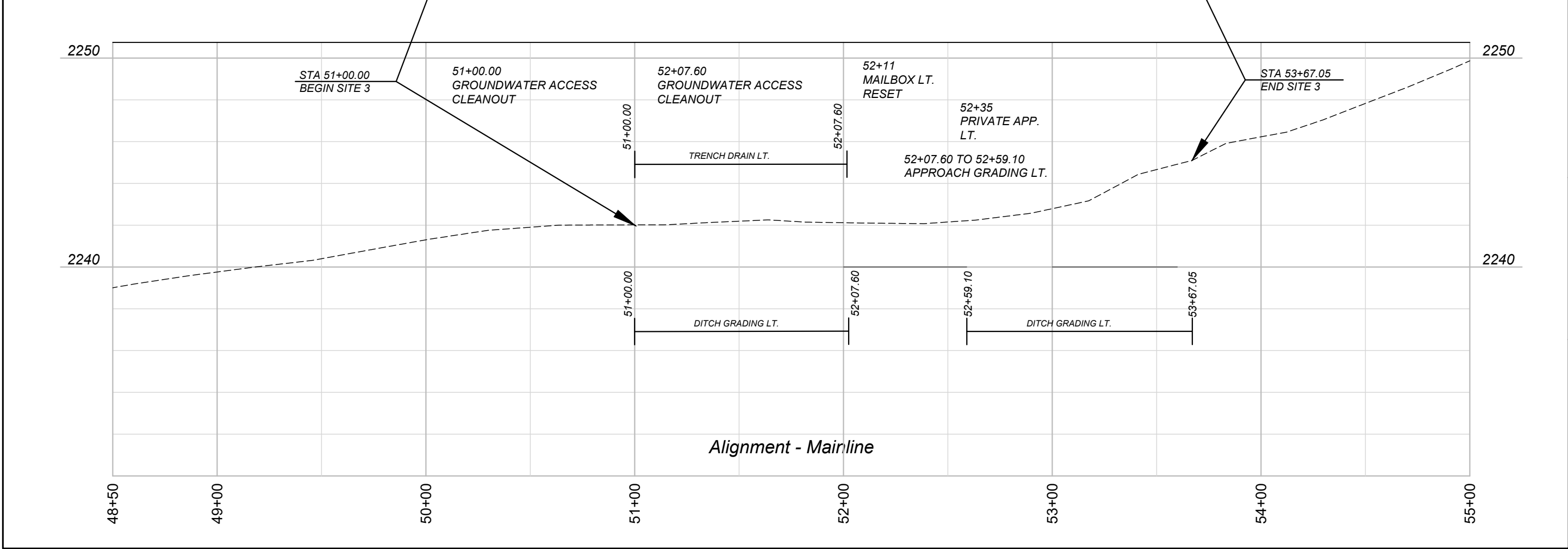
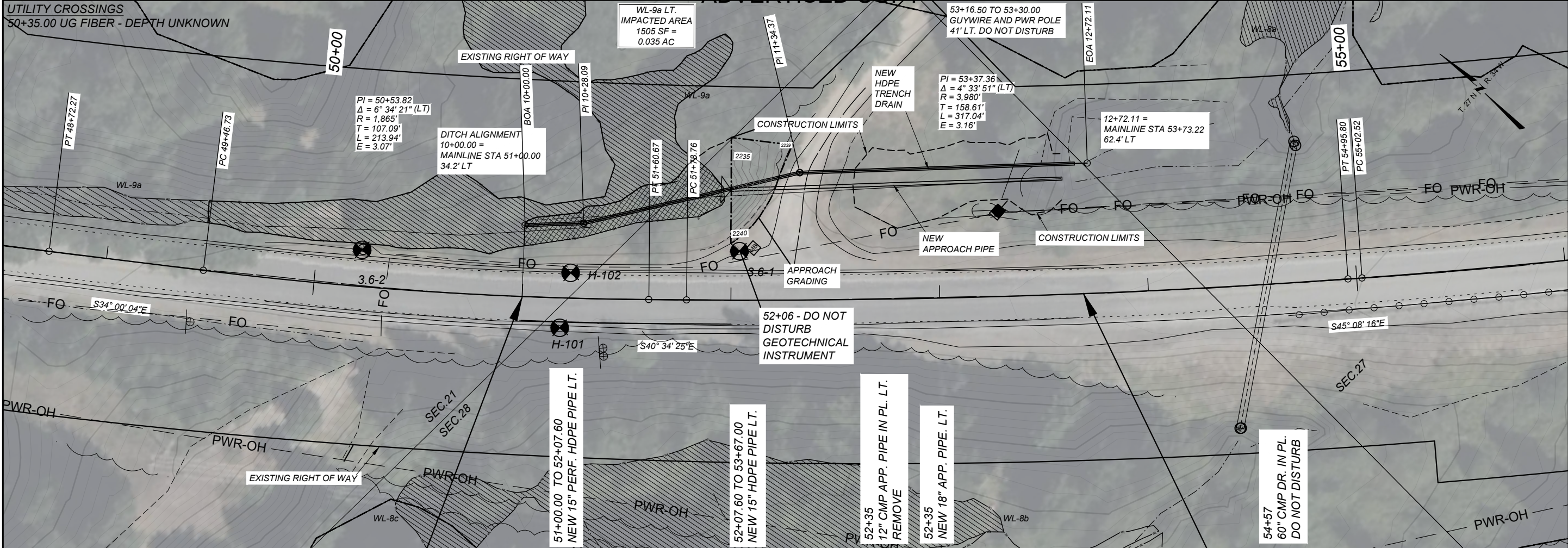
SHEET NO.

19

PLAN & PROFILE
SITE 2 - RP 3.4



 MONTANA Department of Transportation	PROJECT NAME MT-200 SLIDE REPAIRS - HERON	
	DESIGNED BY J. MCKINNEY	COUNTY SANDERS
	REVIEWED BY FIRST INITIAL LAST NAME MM/YYYY	PROJECT ID STPP 6-1(182)2
	CHECKED BY J. CERECK	UPN 10396000
ROAD PLANS		10396000 8/10/2026 5:57 PM



SHEET NO. 20	
PLAN & PROFILE SITE 3 - RP 3.6	
PROJECT NAME MT-200 SLIDE REPAIRS - HERON	
COUNTY SANDERS	
PROJECT ID STPP 6-1(182)2	
UPN 10396000	
DESIGNED BY J. MCKINNEY	03/2026
REVIEWED BY FIRST INITIAL LAST NAME	MM/YYYY
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