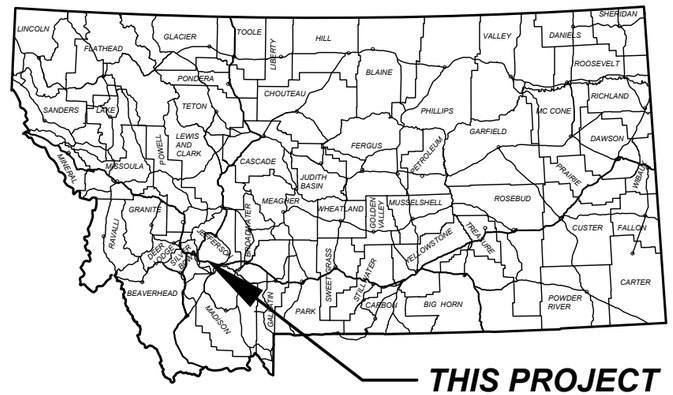
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MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT IM 90-5(101)249
PULVERIZATION & CULVERT REPLACEMENT
WHITEHALL - EAST
JEFFERSON COUNTY

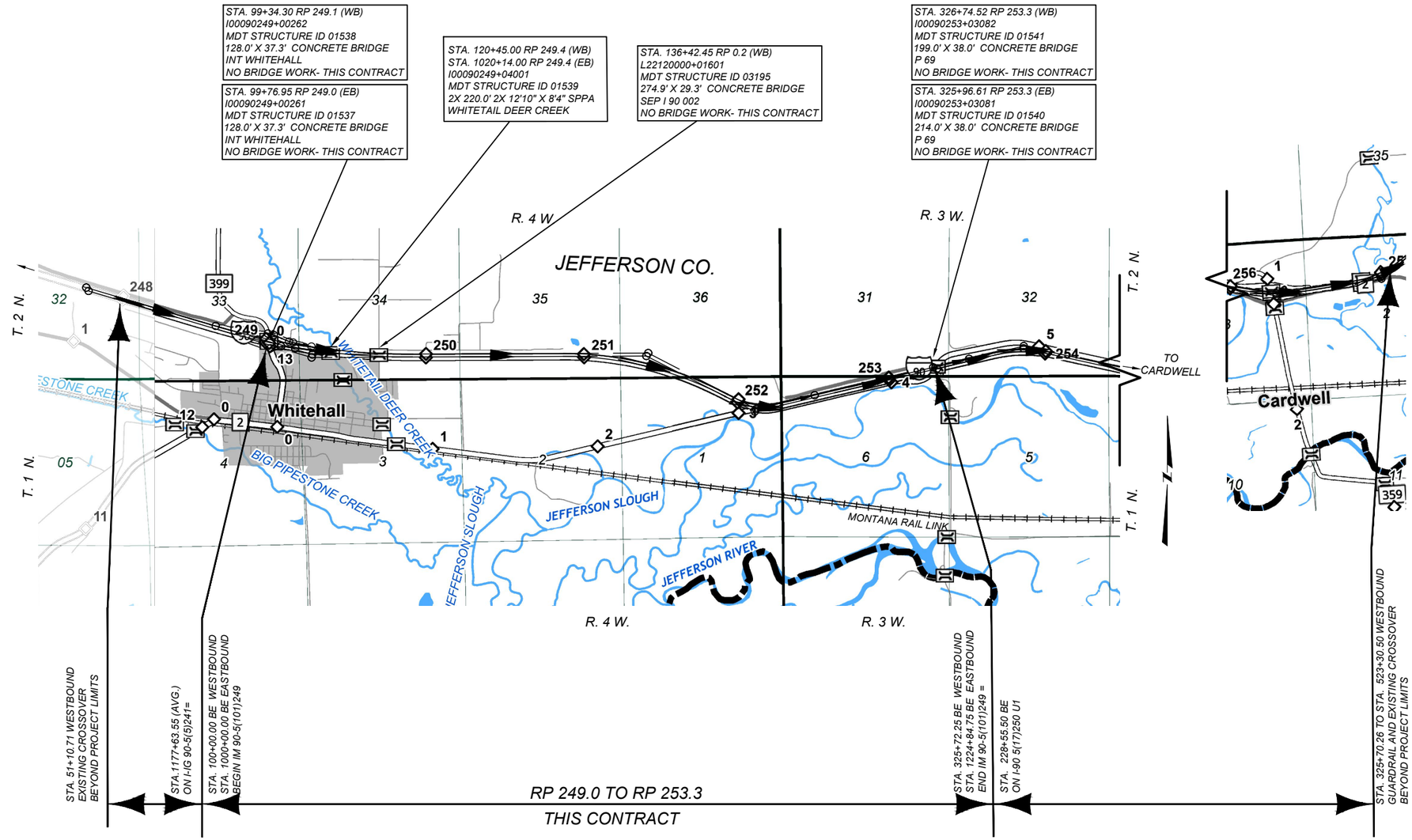
LENGTH 4.3 MILES

PROJECT DESIGN DATA

PRESENT	2024	A.D.T. =	10,670
LETTING	2026	A.D.T. =	11,150
DESIGN	2046	A.D.T. =	17,230
		D.H.V. =	2,190
		TRUCKS =	23.5%
		V. =	70 mph
		18 KIP ESAL'S =	1,517 DAILY
		ANNUAL GROWTH RATE =	2.20%

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R/W	
I.C.	
P.E.	IM 90-5(88)249

RELATED PROJECTS
IM 90-5(91)257 IM 90-5(102)249



MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY:

HIGHWAYS ENGINEER

Signed by: David Holien
4FA8874BB4E5415...

MONTANA DAVID HOLIEN 20186PE LICENSED PROFESSIONAL ENGINEER

9/17/2026
DATE

SHEET NO. 1

TITLE

PROJECT NAME	WHITEHALL - EAST
COUNTY	JEFFERSON
PROJECT ID	IM 90-5(101)249
UPN	10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

MONTANA
Department of Transportation

ROAD PLANS

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NOTES

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 - 3/4" AGG.	= 5.4% 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)
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD
CURING SEAL	= 0.20 GAL. PER SQ.YARD
CEMENT TREATED PULVERIZED BASE (CTPB)	= 3620 LBS. PER CUBIC YARD
BLOTTER	= 15 LBS. PER SQ.YARD
PORTLAND CEMENT	= 4% OF CTPB DRY WT.

STATIONING - RESTATIONING

THE ROAD PLANS WERE STATIONED WITH AN ASSUMED BEGINNING STATION:
WESTBOUND STATION 100+00.00;
EASTBOUND STATION 1000+00.00;
WHITEHALL INTERCHANGE RAMP "A" 79+53.00;
WHITEHALL INTERCHANGE RAMP "B" 20+00.00;
WHITEHALL INTERCHANGE RAMP "C" 30+00.00.

AS-BUILTS

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

I-90-5(17)250 U1 (GRADE,GRAVEL, PMS, STRUCTURES. - 1968)
I-IG 90-5(5)241 (GRADE, GRAVEL, SURFACING, & STRUCTURES. - 1966)

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING.

DO NOT DISTURB

ALL CATTLEGUARDS
ALL CULVERTS UNLESS NOTED
ALL BRIDGE APPROACH SECTIONS UNLESS NOTED

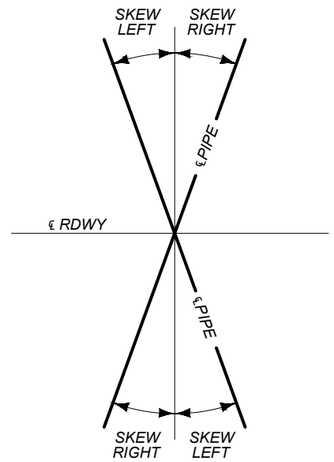
SOILS INFORMATION

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)

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.



DELINEATED WETLAND AREAS



PERMANENT WETLAND IMPACTED AREAS

WETLAND DELINEATION TABLE

WETLAND DESIGNATION	STATION FROM	STATION TO	WETLAND AREA (acres) DELINEATED AREA #	WETLAND AREA (acres) PERMANENT IMPACTED AREA	REMARKS
WL1	118+91	120+43	0.162	0.000	LT. WHITETAIL DEER CR. WB
WL2	120+61	121+72	0.067	0.000	LT. WHITETAIL DEER CR. WB
WL3	1019+12	1019+99	0.054	0.000	RT. WHITETAIL DEER CR. EB
WL4	1020+26	1021+11	0.040	0.000	RT. WHITETAIL DEER CR. EB
TOTAL			0.32	~	

AREA OF EXISTING WETLAND EXTENDS BEYOND PLAN LIMITS

SHEET NO. 2

TABLE OF CONTENTS AND NOTES

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

MONTANA Department of Transportation

ROAD PLANS

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CENTERLINE COORDINATE TABLES

MAINLINE WESTBOUND

CENTERLINE COORDINATE TABLE 10003001_RD_PA-WESTBOUND-MAINLINE				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
36+00.00	PI	606,469.137	1,300,107.170	BPL
81+05.65	PI	605,050.146	1,304,383.539	BPL
100+00.00	BOP	604,528.625	1,306,204.126	BPL
147+80.82	PT	603,895.339	1,310,934.044	BEGIN PROJECT
197+94.47	PC	603,751.916	1,315,945.647	
253+50.58	PT	602,283.354	1,321,248.269	
256+02.71	TS	602,159.887	1,321,468.098	
258+52.71	SC	602,041.499	1,321,688.251	
272+13.13	CS	601,831.921	1,323,011.915	
274+63.13	ST	601,876.509	1,323,257.872	
285+05.84	PI	602,081.303	1,324,280.275	
325+72.75	EOP	602,881.813	1,328,267.113	END PROJECT
337+99.86	PI	603,123.884	1,329,470.615	BPL
346+33.85	PC	603,287.699	1,330,288.363	BPL
366+78.64	PT	603,236.342	1,332,315.595	BPL
475+53.53	PC	600,563.092	1,342,856.796	BPL
493+44.09	PT	600,399.048	1,344,632.516	BPL
510+58.74	PC	600,508.923	1,346,343.643	BPL
528+05.68	PT	601,074.105	1,347,974.350	BPL
536+47.82	EOA	601,551.789	1,348,667.899	BPL

MAINLINE EASTBOUND

CENTERLINE COORDINATE TABLE 10003001_RD_PA-EASTBOUND_MAINLINE				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
936+55.38	BOA	606,352.849	1,300,178.306	BPL
980+61.31	PC	604,956.989	1,304,357.276	BPL
1000+00.00	BOP	604,421.966	1,306,220.067	BEGIN PROJECT
1047+34.85	PT	603,796.325	1,310,904.758	
1097+67.56	PC	603,652.793	1,315,935.416	
1152+15.61	PT	602,227.261	1,321,140.136	
1155+13.35	TS	602,082.911	1,321,400.548	
1157+63.35	SC	601,965.622	1,321,621.291	
1171+67.70	CS	601,753.594	1,322,988.454	
1174+17.70	ST	601,798.514	1,323,234.353	
1224+84.75	EOP	602,797.374	1,328,201.979	END PROJECT
1226+74.95	PI	602,834.868	1,328,388.449	BPL
1246+00.61	PC	603,213.453	1,330,276.529	BPL
1266+45.49	PT	603,162.445	1,332,303.848	BPL
1375+25.07	PC	600,489.771	1,342,850.042	BPL
1393+21.81	PT	600,326.419	1,344,631.950	BPL
1410+64.57	PC	600,440.255	1,346,370.995	BPL
1428+07.50	PT	601,005.184	1,347,997.697	BPL
1436+69.51	EOA	601,494.140	1,348,707.605	BPL

RAMP B

CENTERLINE COORDINATE TABLE 10003001_RD_PA-WESTBOUND-WHITEHALL_RAMP_B				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
19+68.02	BOA	604,738.544	1,306,112.260	BPL
20+00.00	BOP	604,729.727	1,306,143.001	BEGIN PROJECT
20+42.75	PC	604,717.942	1,306,184.093	
22+99.70	PT	604,627.820	1,306,424.434	
25+71.33	PC	604,512.568	1,306,670.398	
28+77.04	PT	604,409.435	1,306,957.719	
34+89.78	EOA	604,257.216	1,307,551.245	CONN. TO PTW

RAMP C

CENTERLINE COORDINATE TABLE 10003001_RD_PA-EASTBOUND-WHITEHALL_RAMP_C				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
29+68.95	BOA	604,241.872	1,306,183.955	
30+00.00	BOP	604,246.676	1,306,214.631	BEGIN PROJECT
31+03.52	PC	604,262.695	1,306,316.899	
35+51.97	PT	604,259.877	1,306,763.396	
38+02.43	PI	604,217.998	1,307,010.332	
46+85.68	EOA	604,073.544	1,307,881.685	CONN. TO PTW

RAMP A

CENTERLINE COORDINATE TABLE WHITEHALL RAMP A				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
79+53.00	BOA	605,121.675	1,304,240.746	BPL
88+28.76	PC	604,865.233	1,305,078.115	BPL
90+21.86	PT	604,827.040	1,305,267.086	BPL
98+71.08	EOA	604,740.849	1,306,111.927	BPL

BPL - BEYOND PROJECT LIMITS

SHEET NO. 3

CENTERLINE COORDINATE TABLES

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	DATE
B. BOONE	07/2025
REVIEWED BY	DATE
J. BRAZILL	05/2026
CHECKED BY	DATE
J. SOLIDAY	05/2026

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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 0.99938174

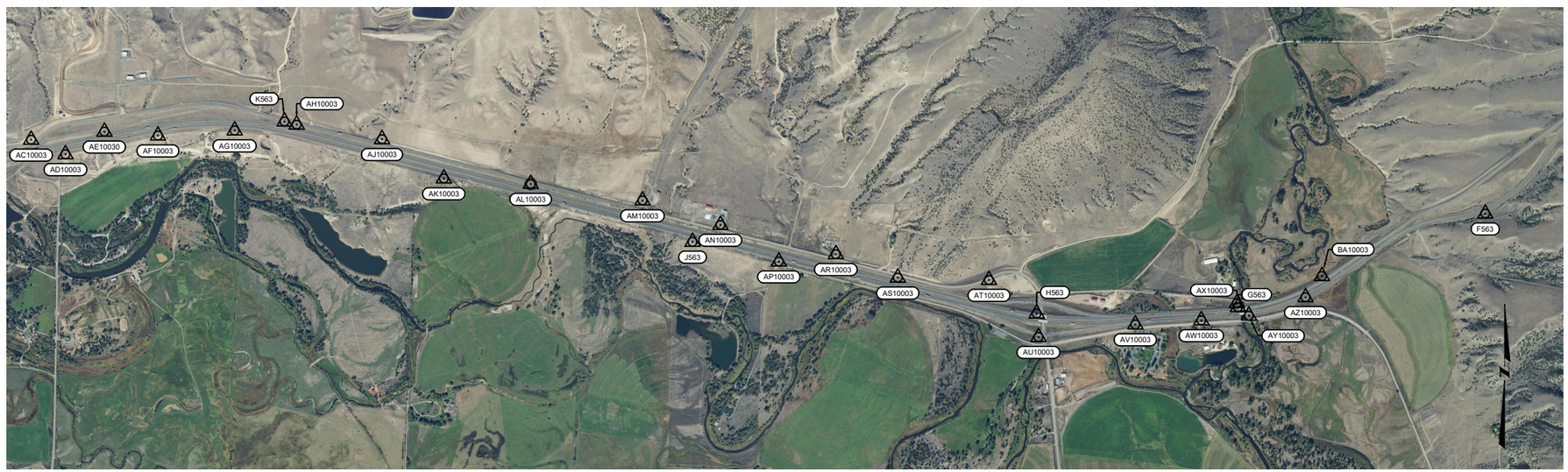
BEARING SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011

LEVEL DATUM SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011
NAVD 88 (GNSS DERIVED ELEVATIONS USING GEOID18 AND HOLDING BMS A10003, AC10003, AND AE10003)





SHEET NO.	4
CONTROL DIAGRAM	
PROJECT NAME	WHITEHALL - EAST
COUNTY	JEFFERSON
PROJECT ID	IM 90-5(101)249
UPN	10003001
DESIGNED BY	B. BOONE 07/2025
REVIEWED BY	J. BRAZILL 05/2026
CHECKED BY	J. SOLIDAY 05/2026
MONTANA Department of Transportation	
ROAD PLANS	
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CONTROL ABSTRACT

CONTROL ABSTRACT			
POINT NAME\NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
A10030	605,075.670	1,303,769.204	4,453.75
AA10003	602,387.846	1,326,395.189	4,342.79
AB10003	602,753.934	1,327,257.961	4,350.18
AC10003	603,073.372	1,328,362.700	4,345.38
AD10003	602,853.850	1,328,879.834	4,350.27
AE10030	603,194.288	1,329,465.630	4,348.98
AF10003	603,136.595	1,330,271.950	4,348.71
AG10003	603,212.313	1,331,427.049	4,362.07
AH10003	603,301.785	1,332,360.949	4,367.46
AJ10003	603,081.932	1,333,646.568	4,365.53
AK10003	602,489.518	1,334,576.771	4,351.45
AL10003	602,407.141	1,335,886.043	4,331.98
AM10003	602,157.458	1,337,568.504	4,338.99
AN10003	601,789.729	1,338,741.652	4,335.24
AP10003	601,237.932	1,339,621.751	4,301.41
AR10003	601,347.854	1,340,480.555	4,315.47
AS10003	600,995.407	1,341,413.003	4,303.85
AT10003	600,960.418	1,342,786.232	4,305.96
AU10003	600,100.192	1,343,531.838	4,278.42
AV10003	600,290.815	1,344,989.995	4,282.01
AW10003	600,352.636	1,345,984.518	4,281.82
AX10003	600,610.747	1,346,519.882	4,281.77
AY10003	600,422.697	1,346,701.090	4,286.10
AZ10003	600,700.710	1,347,553.027	4,293.70
B10003	605,233.672	1,306,125.229	4,383.35

CONTROL ABSTRACT			
POINT NAME\NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
BA10003	601,018.724	1,347,799.736	4,289.88
C10003	604,308.663	1,306,546.661	4,383.67
D10003	604,037.907	1,308,021.581	4,376.00
E562	605,708.897	1,301,779.723	4,472.89
E10030	604,228.757	1,308,136.396	4,361.65
F563	601,959.582	1,350,259.626	4,399.38
F10003	603,992.720	1,308,309.955	4,376.77
G562	601,697.165	1,322,304.619	4,325.96
G563	600,550.535	1,346,534.612	4,288.00
G10003	604,127.006	1,308,773.836	4,388.80
H563	600,454.922	1,343,503.907	4,305.72
H10003	604,047.663	1,309,569.913	4,409.77
J558	604,539.653	1,306,081.645	4,398.35
J563	601,535.442	1,338,323.007	4,306.30
J10030	603,716.890	1,310,518.204	4,408.15
K563	603,347.488	1,332,178.367	4,367.54
K10003	603,951.279	1,311,644.035	4,408.94
L10003	603,675.487	1,313,050.617	4,398.87
M10003	603,903.681	1,313,785.656	4,412.94
N10003	603,611.448	1,315,344.724	4,398.55
P10030	603,825.993	1,315,903.269	4,416.52
R10003	603,557.690	1,316,585.114	4,411.45
S10003	603,762.113	1,317,012.335	4,412.49
T10003	603,168.320	1,318,646.771	4,402.31
U10030	602,775.216	1,319,856.955	4,377.31

CONTROL ABSTRACT			
POINT NAME\NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
V10003	602,463.153	1,320,601.927	4,353.52
W10003	602,221.818	1,321,508.932	4,325.86
X10030	601,956.225	1,323,300.139	4,338.37
Y10003	602,008.425	1,324,510.028	4,346.10
Z10003	602,292.756	1,324,908.941	4,348.92

SHEET NO. 5

CONTROL ABSTRACT

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

MONTANA
Department of Transportation

ROAD PLANS

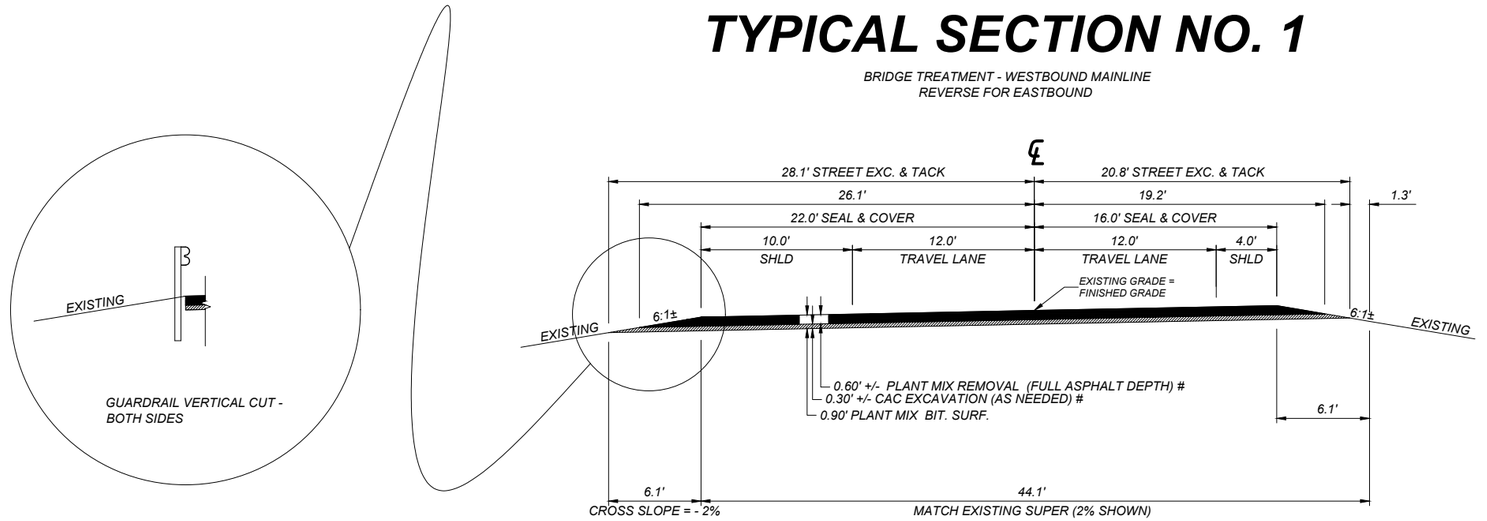
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TYPICAL SECTION NO. 1

BRIDGE TREATMENT - WESTBOUND MAINLINE
REVERSE FOR EASTBOUND



= STREET EXCAVATION

= CAC EXCAVATION

FOR QUANTITIES SEE TYPICAL NO. 4

WESTBOUND

100+00.00	BE		BEGIN PROJECT
100+00.00	BE	TO 102+00.00	2% LT. THEN TO TYP. NO. 2

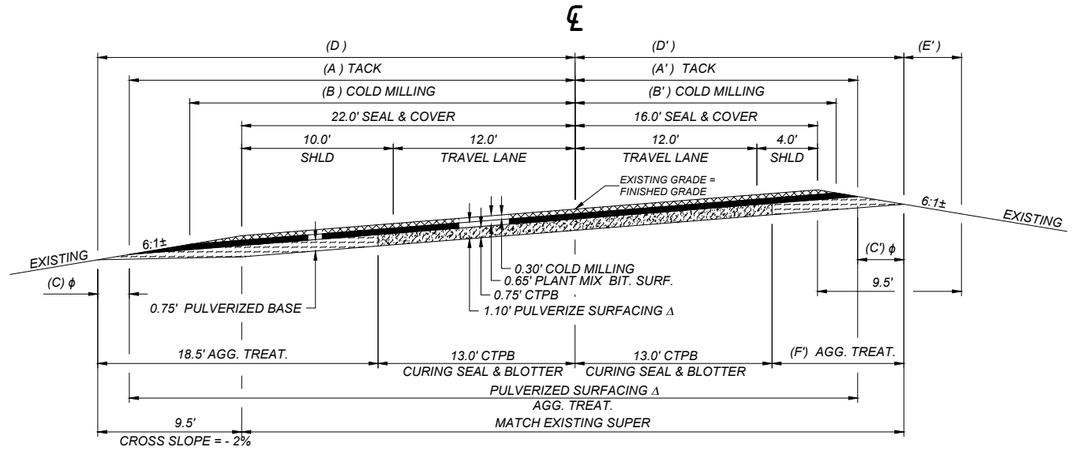
EASTBOUND

1000+00.00	BE		BEGIN PROJECT
1000+00.00	BE	TO 1002+00.00	2% LT. THEN TO TYP. NO. 3

\# REMOVE EXISTING PLANT MIX FULL DEPTH (APPROXIMATELY 0.60') AND EXCAVATE EXISTING CAC (APPROXIMATELY 0.30') AS REQUIRED PRIOR TO PAVEMENT REPLACEMENT.
COMPACT EXISTING CAC PRIOR TO PAVING.

TYPICAL SECTION NO. 2

PULVERIZATION - WESTBOUND MAINLINE
REVERSE FOR EASTBOUND



= COLD MILLING

= CTPB

= PULVERIZED BASE

FOR QUANTITIES SEE TYPICAL NO. 3

SUPER %	WIDTHS (ft)									
	A	B	C	D	A'	B'	C'	D'	E'	F'
2%	26.4	24.0	5.1	31.5	19.5	17.6	4.0	23.5	2.0	10.5
8%	29.4	25.4	2.1	31.5	18.6	17.2	3.1	21.7	3.8	8.7

WESTBOUND

102+00.00	TO	147+53.82	2% LT.
147+53.82	TO	149+33.82	TRANS. TYP. NO 2 TO TYP. NO. 3
198+21.47	TO	253+23.58	2% RT.
253+23.58	TO	258+52.34	TRANS. (2% RT.) TO (8% LT.)
258+52.34	TO	272+13.19	8% LT.
272+13.19	TO	276+63.39	TRANS. TYP. NO. 2 TO TYP. NO. 3

EASTBOUND

1002+00.00	TO	1047+07.85	2% LT.
1047+07.85	TO	1048+87.85	TRANS. TYP. NO 2 TO TYP. NO. 3
1097+94.56	TO	1151+86.61	2% RT.
1151+86.61	TO	1157+63.35	TRANS. (2% RT.) TO (8% LT.)
1157+63.35	TO	1171+67.70	8% LT.
1171+67.70	TO	1176+17.70	TRANS. TYP. NO. 2 TO TYP. NO. 3

Δ PULVERIZE SURFACE TO A DEPTH OF 1.10' AND REMOVE APPROXIMATELY 0.35' PRIOR TO CEMENT TREATMENT OF PULVERIZED BASE.
SEE PAVEMENT PULVERIZATION SPECIAL PROVISION.

ϕ EXCESS PULVERIZED BASE MATERIAL OR CRUSHED AGGREGATE COURSE (PER STANDARD SPECIFICATION) MAY BE USED FOR SURFACE INSLOPES .

SHEET NO. 6

TYPICAL SECTIONS

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: B. BOONE 07/2025
REVIEWED BY: J. BRAZILL 05/2026
CHECKED BY: J. SOLIDAY 05/2026

MONTANA Department of Transportation

ROAD PLANS

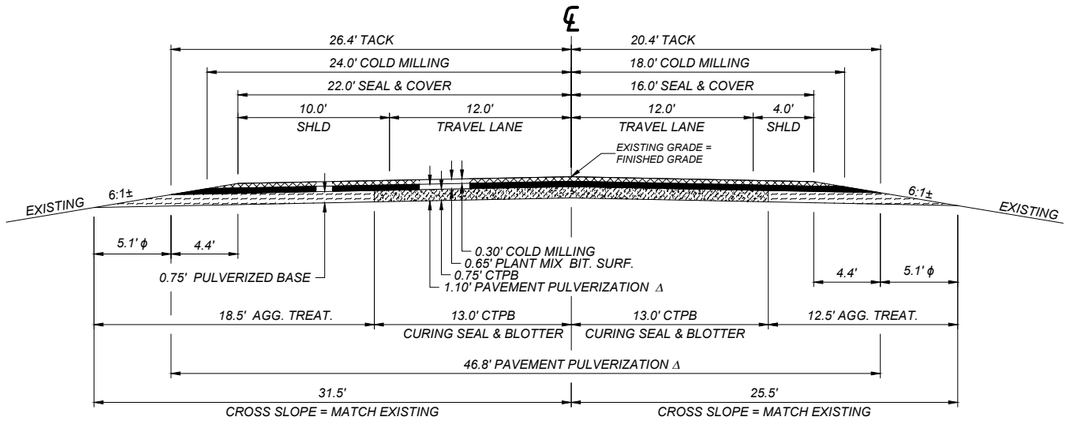
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TYPICAL SECTION NO. 3

PULVERIZATION - WESTBOUND MAINLINE
REVERSE FOR EASTBOUND



WESTBOUND

149+33.82	TO	196+41.47	
196+41.47	TO	198+21.47	TRANS. TYP. NO. 3 TO TYP. NO. 2
276+63.39	TO	323+72.25	THEN TO TYP. NO. 4

EASTBOUND

1048+87.85	TO	1096+14.56	
1096+14.56	TO	1097+94.56	TRANS. TYP. NO. 3 TO TYP. NO. 2
1176+17.70	TO	1222+84.75	THEN TO TYP. NO. 4

Δ PULVERIZE SURFACE TO A DEPTH OF 1.10' AND REMOVE APPROXIMATELY 0.35' PRIOR TO CEMENT TREATMENT OF PULVERIZED BASE.
SEE PAVEMENT PULVERIZATION SPECIAL PROVISION.

ϕ EXCESS PULVERIZED BASE MATERIAL OR CRUSHED AGGREGATE COURSE (PER STANDARD SPECIFICATION) MAY BE USED FOR SURFACE INSLOPES .

= COLD MILLING

= CTPB

= PULVERIZED BASE

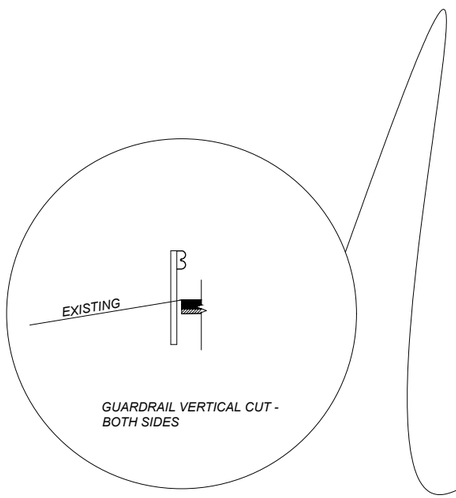
QUANTITIES

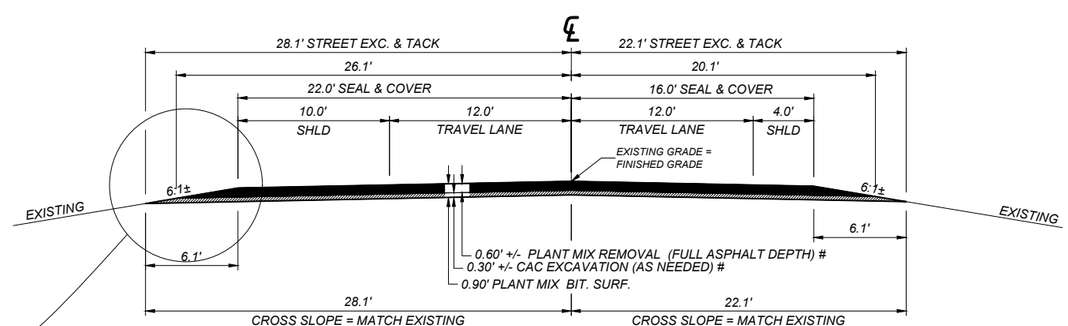
UNIT	AGGREGATE				CEMENT	UNIT	BITUMINOUS MATERIAL				AGG. TREAT.	COLD MILLING
	COVER	PLANT MIX	CTPB	BLOTTER	PORTLAND CEMENT		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT CURING SEAL	EMULSIFIED ASPHALT TACK*		
AREA square feet		27.56	19.50			square yards PER STATION		422	289	2080	344	467
cubic yards PER STATION		102.1	72.2			tons PER STATION	10.63	0.75	0.25			
tons PER STATION		196.8	139.2 **		5.23	gals. PER STATION				104		
square yards PER STATION	422		289	289								

* BASED ON 4 APPLICATIONS
** FOR INFORMATION ONLY

TYPICAL SECTION NO. 4

BRIDGE TREATMENT - WESTBOUND MAINLINE
REVERSE FOR EASTBOUND





WESTBOUND

323+72.25	TO	325+72.25	BE
		325+72.25	BE END PROJECT

EASTBOUND

1222+84.75	TO	1224+84.75	BE
		1224+84.75	BE END PROJECT

= STREET EXCAVATION

= CAC EXCAVATION

QUANTITIES

UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL			STREET EXC.
	COVER	PLANT MIX		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*	
AREA square feet		39.69	square yards PER STATION		422	2789	558
cubic yards PER STATION		147.0	tons PER STATION	15.30	0.75		
tons PER STATION		283.3	gals. PER STATION			139	
square yards PER STATION	422		cubic yards PER STATION				167

* BASED ON 5 APPLICATIONS

\# REMOVE EXISTING PLANT MIX FULL DEPTH (APPROXIMATELY 0.60') AND EXCAVATE EXISTING CAC (APPROXIMATELY 0.30') AS REQUIRED PRIOR TO PAVEMENT REPLACEMENT.
COMPACT EXISTING CAC PRIOR TO PAVING.

SHEET NO. 7

TYPICAL SECTIONS

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

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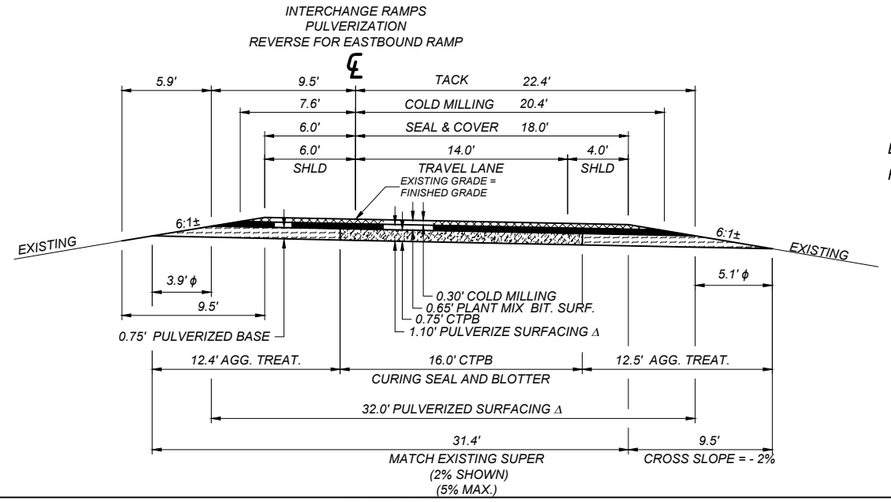
MONTANA Department of Transportation

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TYPICAL SECTION NO. 5



WESTBOUND

RAMP "B"

20+00.00	TO	20+75.55	
20+75.55	TO	22+64.90	4% RT.
22+64.90	TO	26+31.37	
26+31.37	TO	28+05.93	5% LT.
28+05.93	TO	29+53.95	
29+53.95	TO	34+96.73	CONN. TO PTW - INCLUDES TAPER & GORE

EASTBOUND

RAMP "C"

30+00.00	TO	31+50.02	
31+50.02	TO	35+05.47	5% LT.
35+05.47	TO	46+85.68	CONN. TO PTW - INCLUDES TAPER & GORE

Δ *PULVERIZE SURFACE TO A DEPTH OF 1.10' AND REMOVE APPROXIMATELY 0.35' PRIOR TO CEMENT TREATMENT OF PULVERIZED BASE.*
SEE PAVEMENT PULVERIZATION SPECIAL PROVISION.

ϕ *EXCESS PULVERIZED BASE MATERIAL OR CRUSHED AGGREGATE COURSE (PER STANDARD SPECIFICATION) MAY BE USED FOR SURFACE INSLOPES .*

= COLD MILLING

= CTPB

= PULVERIZED BASE

QUANTITIES

UNIT	AGGREGATE				CEMENT	UNIT	BITUMINOUS MATERIAL				AGG. TREAT.	COLD MILLING
	COVER	PLANT MIX	CTPB	BLOTTER	PORTLAND CEMENT		ASPHALT BINDER	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT CURING SEAL	EMULSIFIED ASPHALT TACK*		
AREA square feet		18.17	12.00			square yards PER STATION		267	178	1418	277	311
cubic yards PER STATION		67.3	44.4		3.22	tons PER STATION	7.00	0.48	0.15			
tons PER STATION		129.7	85.6 **			gals. PER STATION				71		
square yards PER STATION	267		178	178								

* BASED ON 4 APPLICATIONS
** FOR INFORMATION ONLY

SHEET NO. 8

TYPICAL SECTION

WHITEHALL - EAST
JEFFERSON
IM 90-5(101)249
10003001

DESIGNED BY	B. BOONE	07/2025	PROJECT NAME
REVIEWED BY	J. BRAZILL	05/2026	COUNTY
CHECKED BY	J. SOLIDAY	05/2026	PROJECT ID
			UPN

MONTANA
Department of Transportation

ROAD PLANS

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SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	+	-	FOR	tons HYDRATED LIME	AGGREGATE sq. yards COVER TYPE II	AGGREGATE tons PLANT MIX BIT. SURF. 3/4"	AGGREGATE cu. yards CRUSHED AGG. COURSE	AGGREGATE cu. yards SPECIAL BORROW NEAT LINE	AGGREGATE sq. yards CEMENT TREAT. PULV. BASE	AGGREGATE sq. yards BLOTTER	BITUMINOUS MATERIAL tons ASPHALT BINDER PG 58V-34	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CURING CRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	sq. yards AGG. TREAT.	sq. yards COLD MILLING 0.30 ft	tons PORTLAND CEMENT	REMARKS
WESTBOUND																					
100+00.00 BE	102+00.00	200.00	200.00					844	567					30.6	1.5		278				TYPICAL SECTION NO. 1
102+00.00	147+53.82	4,553.82	4,553.82					19,217	8,962			13,161	13,161	484.1	34.2	11.4	4,736	15,665	21,266	238	TYPICAL SECTION NO. 2
147+53.82	149+33.82	180.00	180.00					760	354			520	520	19.1	1.4	0.3	187	619	841	9	TRANS. TYP. SECT. NO. 2 TO TYP. SECT. NO. 3
149+33.82	196+41.47	4,707.65	4,707.65					19,866	9,265			13,605	13,605	500.4	35.3	11.8	4,896	16,194	21,985	246	TYPICAL SECTION NO. 3
196+41.47	198+21.47	180.00	180.00					760	354			520	520	19.1	1.4	0.3	187	619	841	9	TRANS. TYP. SECT. NO. 3 TO TYP. SECT. NO. 2
198+21.47	272+13.19	7,391.72	7,391.72					31,193	14,547			21,362	21,362	785.7	55.4	18.5	7,687	25,428	34,519	387	TYPICAL SECTION NO. 2
272+13.19	276+63.39	450.20	450.20					1,900	886			1,301	1,301	47.9	3.4	0.7	468	1,549	2,102	24	TRANS TYP. SECT. NO. 2 TO TYP. SECT. NO. 3
276+63.39	323+72.25	4,708.86	4,708.86					19,871	9,267			13,609	13,609	500.6	35.3	11.8	4,897	16,198	21,991	246	TYPICAL SECTION NO. 3
323+72.25	325+72.25 BE	200.00	200.00					844	567					30.6	1.5		278				TYPICAL SECTION NO. 4
EASTBOUND																					
1000+00.00 BE	1002+00.00	200.00	200.00					844	567					30.6	1.5		278				TYPICAL SECTION NO. 1
1002+00.00	1047+07.85	4,507.85	4,507.85					19,023	8,871			13,028	13,028	479.2	33.8	11.3	4,688	15,507	21,052	236	TYPICAL SECTION NO. 2
1047+07.85	1048+87.85	180.00	180.00					760	354			520	520	19.1	1.4	0.3	187	619	841	9	TRANS. TYP. SECT. NO. 2 TO TYP. SECT. NO. 3
1048+87.85	1096+14.56	4,726.71	4,726.71					19,947	9,302			13,660	13,660	502.4	35.5	11.8	4,916	16,260	22,074	247	TYPICAL SECTION NO. 3
1096+14.56	1097+94.56	180.00	180.00					760	354			520	520	19.1	1.4	0.3	187	619	841	9	TRANS TYP. SECT. NO. 3 TO TYP. SECT. NO. 2
1097+94.56	1171+67.70	7,373.14	7,373.14					31,115	14,510			21,308	21,308	783.8	55.3	18.4	7,668	25,364	34,432	386	TYPICAL SECTION NO. 2
1171+67.70	1176+17.70	450.00	450.00					1,899	886			1,301	1,301	47.8	3.4	0.7	468	1,548	2,102	24	TRANS. TYP. SECT. NO. 2 TO TYP. SECT. NO. 3
1176+17.70	1222+84.75	4,667.05	4,667.05					19,695	9,185			13,488	13,488	496.1	35.0	11.7	4,854	16,055	21,795	244	TYPICAL SECTION NO. 3
1222+84.75	1224+84.75 BE	200.00	200.00					844	567					30.6	1.5		278				TYPICAL SECTION NO. 4
						ADDITIONAL SURFACING		6,155	3,437	272	1,028	4,102	4,102	185.5	11.0	3.4	1,871	7,561	7,168	74	
TOTAL		45,057.00	45,057.00	~	~		1,299	196,297	92,802	272	1,028	132,005	132,005	5,012.3	349.2	112.7	49,009	159,805	213,850	2,388	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	+	-	FOR	HYDRATED LIME	AGGREGATE sq. yards COVER TYPE II	AGGREGATE tons PLANT MIX BIT. SURF. 3/4"	AGGREGATE cu. yards CRUSHED AGG. COURSE	AGGREGATE cu. yards SPECIAL BORROW NEAT LINE	AGGREGATE sq. yards CEMENT TREAT. PULV. BASE	AGGREGATE sq. yards BLOTTER	BITUMINOUS MATERIAL tons ASPHALT BINDER PG 58V-34	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CURING CRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	sq. yards AGG. TREAT.	sq. yards COLD MILLING 0.30 ft	tons PORTLAND CEMENT	REMARKS
CULVERT																					
WESTBOUND																					
120+00.00	121+15.00	115.00	115.00						224	134	494			12.1			117	588			BOX CULVERT DIGOUT
EASTBOUND																					
1019+67.00	1020+82.00	115.00	115.00						224	138	534			12.1			117	588			BOX CULVERT DIGOUT
WHITEHALL INTERCHANGE																					
RAMP "B"																					WESTBOUND
20+00.00	29+53.95	953.95	945.95		8.00	CATTLE GUARD		2,526	1,227			1,684	1,684	66.2	4.5	1.4	672	2,620	2,942	30	TYPICAL SECTION NO. 5 -INCLUDES RADII
29+53.95	34+96.73	542.78	271.39					725	352			483	483	19.0	1.3	0.4	193	752	844	9	TYPICAL SECTION NO. 5- INCLUDES TAPER & GORE
RAMP "C"																					EASTBOUND
30+00.00	35+05.47	505.47	497.47		8.00	CATTLE GUARD		1,328	645			885	885	34.8	2.4	0.7	353	1,378	1,547	16	TYPICAL SECTION NO. 5 - INCLUDES RADII
35+05.47	46+85.68	1,180.21	590.11					1,576	765			1,050	1,050	41.3	2.8	0.9	419	1,635	1,835	19	TYPICAL SECTION NO. 5 - IINCLUDES TAPER & GORE
SUBTOTAL		~	~	~	~		~	6,155	3,437	272	1,028	4,102	4,102	185.5	11.0	3.4	1,871	7,561	7,168	74	

SHEET NO. 9

SUMMARY

PROJECT NAME WHITEHALL - EAST
COUNTY JEFFERSON
PROJECT ID IM 90-5(101)249
UPN 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

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MONTANA Department of Transportation

ROAD PLANS

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SUMMARY

BIOENGINEERED BANK

STATION ## FROM	STATION ## TO	lump sum BIOENGINEERED BANK	cu. yards NATIVE STREAMBED MATERIAL	each WILLOW CUTTINGS	linear feet COIR FIBER ROLL	REMARKS
120+45		1	447	1,350	135	CULVERT, SEE DETAIL
TOTAL		1	# 447	# 1,350	# 135	

FOR INFORMATION ONLY
STATIONING DERIVED FROM WESTBOUND ALIGNMENT.

REVEGETATION

STATION ## FROM	STATION ## TO	lump sum REVEGE-TATION	cu. yards TOPSOIL SALVAGING & PLACING	acres SEED	acres FERTILIZER	sq. yards EROSION CONTROL BLANKET	REMARKS
120+45		1	265	1.00	1.00		CULVERT
120+45						138	BIOENGINEERED BANK, INLET WHITETAIL DEER CR. @
120+45						130	BIOENGINEERED BANK, OUTLET WHITETAIL DEER CR. @
TOTAL		1	# 265	# 1	# 1	268	

FOR INFORMATION ONLY
STATIONING DERIVED FROM WESTBOUND ALIGNMENT.
@ SEE DETAIL

TEMPORARY GUARDRAIL **

STATION FROM	STATION TO	linear feet REMOVE GUARDRAIL LEFT	linear feet REMOVE GUARDRAIL RIGHT	linear feet TEMPORARY METAL GUARDRAIL LEFT	linear feet TEMPORARY METAL GUARDRAIL RIGHT	each TEMPORARY OPTIONAL TERMINAL SECTION LEFT	each TEMPORARY OPTIONAL TERMINAL SECTION RIGHT	each BRIDGE APPROACH SECTION TYPE 3 LEFT	each BRIDGE APPROACH SECTION TYPE 3 RIGHT	each GUARDRAIL END SECTION WIDENING LEFT	each GUARDRAIL END SECTION WIDENING RIGHT	REMARKS
NEW RAIL												
WESTBOUND												
115+19.82	120+04.19			450.0		1				1		LT.
133+29.21	136+13.58			250.0		1				1		LT.
210+67.03	217+51.40			650.0		1				1		LT.
233+64.80	234+99.17			100.0		1				1		LT.
321+34.98	322+69.35			100.0		1				1		LT.
322+08.45	325+55.32 BE				287.5		1		1		1	RT.
REMOVE RAIL												
WESTBOUND												
119+79.19	120+04.19	25.0										LT. - INCLUDES DEPARTURE SECTION.
135+88.58	136+13.58	25.0										LT. - INCLUDES DEPARTURE SECTION.
217+26.40	217+51.40	25.0										LT. - INCLUDES DEPARTURE SECTION.
234+74.17	234+99.17	25.0										LT. - INCLUDES DEPARTURE SECTION.
322+44.35	322+69.35	25.0										LT. - INCLUDES DEPARTURE SECTION.
SUBTOTAL		125.0	~	1,550.0	287.5	5	1	~	1	5	1	
TOTAL		125		1,838		6		1		6		

** TO BE INSTALLLED PRIOR TO TWO-WAY TRAFFIC CONFIGURATION.

TOPSOIL & SEEDING

STATION FROM	STATION TO	cu. yards TOPSOIL SALVAGING & PLACING	acres SEED # NO. 3	REMARKS
WESTBOUND				
102+00.00	323+72.25	1,914	3.6	
EASTBOUND				
1002+00.00	1222+84.75	1,907	3.5	
WHITEHALL INTERCHANGE				
RAMP "B"				
20+00.00	34+96.73	129	0.2	
RAMP "C"				
30+00.00	46+85.68	146	0.3	
TOTAL		4,096	7.6	

SEE REVEGETATION SPECIAL PROVISION FOR THE SEEDING BLEND, SEED PER SUBSECTION 610.

FENCING

STATION FROM	STATION TO	linear feet FARM FENCE REMOVE FENCE #	linear feet FARM FENCE TYPE F2-32WW	TEMP. FENCE	each FARM FENCE PANEL DOUBLE FW	REMARKS
WESTBOUND						
119+72.52	120+94.51	175	180	130	4	CULVERT INSTALL.
EASTBOUND						
1019+18.34	1020+66.67	198	200	150	4	CULVERT INSTALL.
TOTAL		~	380	280	8	

FOR INFORMATION ONLY

CULVERTS

STATION	BASIC BID ITEMS CULVERT PIPE ft	linear feet LENGTH OF PIPE	linear feet REMOVE PIPE CULVERT	cu. yards FOUND-ATION MATERIAL	cu. yards GRANULAR BEDDING MATERIAL	cu. yards SPECIAL BACKFILL	cu. yards CULVERT INFILL *	cu. yards CONCRETE - CLASS GENERAL	sq. yards GEOTEXT. STAB.	PIPE OPTIONS in REINFORCED CONCRETE	PIPE OPTIONS in CLASS OR THK. *	END SECTIONS LEFT	END SECTIONS RIGHT	linear feet HEIGHT OF COVER	SKEW ANGLE	CULVERT IN PL.	REMARKS
120+45 (WB) 1020+14 (EB)			445.5													DBL. 12'10" X 8'4" X 445.5' SPPA	REMOVE
120+45 (WB) 1020+14 (EB)	20' X 11'	228		448	224	8,302	338.0	16.6	1,444	20' X' 11' RCB		2:1	2:1	8.1	0.4° LT.		WHITETAIL DEER CREEK
TOTAL	~	228	445.5	448	224	8,302	338	16.6	1,444	~	~	~	~	~	~	~	

* SEE DETAIL

SHEET NO. 10

SUMMARY

PROJECT NAME WHITEHALL - EAST
COUNTY JEFFERSON
PROJECT ID IM 90-5(101)249
UPN 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

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MONTANA Department of Transportation

ROAD PLANS

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SUMMARY

GUARDRAIL

STATION		linear feet								each						REMARKS
		REMOVE GUARDRAIL		RESET GUARDRAIL		MGS GUARDRAIL		MGS GUARDRAIL STIFFENED		MASH W-BEAM TERMINAL SECTION		BRIDGE APPROACH SECTION TYPE 3		GUARDRAIL END SECTION WIDENING		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
NEW RAIL																
WHITEHALL INTERCHANGE																
RAMP "A"																
87+40.43 *	88+24.80 *					# 50.0				1				1		LT. - RAMP "A" ALIGNMENT **
CULVERT REPLACEMENT																
WESTBOUND																
119+83.37	121+08.37			125.0												LT. - CULVERT REPLACEMENT
EASTBOUND																
1019+50.71	1020+75.71				125.0											RT. - CULVERT REPLACEMENT
WESTBOUND																
94+69.47 *	95+53.85 *					# 50.0				1				1		LT. **
95+02.45 *	98+77.42 * BE						# 287.5				1		1		1	RT. **
99+91.64 BE	106+88.52					# 612.5				1		1		1		LT.
100+06.90 BE	104+53.78						# 362.5				1		1		1	RT.
115+26.07	128+82.32					1,287.5				2				2		LT.
133+44.63	136+04.00					225.0				1				1		LT.
136+04.00	136+79.00							75.0								LT.
136+79.00	138+38.38					125.0				1				1		LT.
210+57.65	223+76.40					1,250.0				2				2		LT.
233+55.42	238+24.17					400.0				2				2		LT.
321+21.23	325+93.10 BE					# 387.5				1		1		1		LT.
322+08.34	325+30.21						# 262.5				1				1	RT. - BR. APP. SEC. IN PLACE, USE AS IS
360+66.97 *	362+26.34 *					# 125.0				1				1		LT. **
476+62.85 *	479+22.22 *					# 225.0				1				1		LT. **
478+36.95 *	482+21.32 * BE						# 325.0				1		1		1	RT. **
508+69.14 *	512+53.51 * BE					# 325.0				1		1		1		LT. **
510+07.24 *	512+54.11 * BE						# 187.5				1		1		1	RT. **
EASTBOUND																
999+93.20 BE	1002+80.70					# 200.0				1		1		1		LT.
1000+08.32 BE	1002+33.32						# 137.5				1		1		1	RT.
1013+56.11	1026+99.86						1,275.0				2				2	RT.
1033+91.04	1035+87.91						162.5				1				1	RT.
1035+87.91	1036+62.91								75.0							RT.
1036+62.91	1037+34.79						37.5				1				1	RT.
1083+35.05	1091+16.30						712.5				2				2	RT.
1104+83.08	1124+14.33						1,862.5				2				2	RT.
1220+53.53	1225+00.40 BE					# 362.5				1		1		1		LT.
1215+03.47	1224+62.84 BE						# 875.0				1		1		1	RT.
REMOVE RAIL																
WHITEHALL INTERCHANGE																
RAMP "A"																
88+12.30 *	88+24.80 *	12.5														LT.-INCLUDES DEPART. SECT.- RAMP "A" ALIGN. **
CULVERT REPLACEMENT																
WESTBOUND																
119+83.37	121+08.37	125.0														LT. - CULVERT REPLACEMENT
EASTBOUND																
1019+50.71	1020+75.71		125.0													RT.- CULVERT REPLACEMENT
WESTBOUND																
95+06.95 *	95+56.95 *	50.0														LT. - INCLUDES DEPARTURE SECTION. **
99+91.64 BE	106+91.64	700.0														LT. - REMOVAL INCLUDES OTS & BR. APP. SEC.
100+06.90 BE	104+56.90		450.0													RT. - REMOVAL INCLUDES OTS & BR. APP. SEC.
115+19.82	128+94.82	1,375.0														LT. - REMOVAL INCLUDES 2 OTS
133+29.21	138+41.71	512.5														LT. - REMOVAL INCLUDES OTS
210+51.40	223+88.90	1,337.5														LT. - REMOVAL INCLUDES OTS
233+49.17	238+36.67	487.5														LT. - REMOVAL INCLUDES OTS
321+30.60	325+93.10 BE	462.5														LT. - REMOVAL INCLUDES OTS & BR. APP. SEC.
321+92.82	325+55.32		362.5													RT. - REMOVAL INCLUDES OTS, LEAVE BR. APP. SEC. IN PLACE
361+88.86 *	362+26.34 *	37.5														LT. - INCLUDES DEPARTURE SECTION. **
478+84.74 *	479+22.22 *	37.5														LT. - INCLUDES DEPARTURE SECTION. **
EASTBOUND																
999+93.20 BE	1002+93.20	300.0														LT. - REMOVAL INCLUDES OTS & BR. APP. SEC.
1000+08.32 BE	1002+45.82		237.5													RT. - REMOVAL INCLUDES OTS & BR. APP. SEC.
1013+43.61	1027+06.11		1,362.5													RT. - REMOVAL INCLUDES 2 OTS
1034+17.96	1037+17.96		300.0													RT. - REMOVAL INCLUDES 2 OTS
1083+22.55	1091+22.55		800.0													RT. - REMOVAL INCLUDES 2 OTS
1104+70.58	1124+20.58		1,950.0													RT. - REMOVAL INCLUDES 2 OTS
1220+62.90	1225+00.40 BE	437.5														LT. - REMOVAL INCLUDES OTS
1215+12.84	1224+62.84 BE		950.0													RT. - REMOVAL INCLUDES OTS
SUBTOTAL		**5,875.0**	**6,537.5**	**125.0**	**125.0**	**5,625.0**	**6,487.5**	**75.0**	**75.0**	**17**	**15**	**5**	**6**	**17**	**15**	
TOTAL		**12,413**		**250**		**12,113**		**150**		**32**		**11**		**32**		

INCLUDES 25.0 FT. MGS TO METAL GUARDRAIL HEIGHT TRANSITION
* BEYOND PROJECT LIMITS - SEE DETAILS
** TO BE INSTALLLED PRIOR TO TWO-WAY TRAFFIC CONFIGURATION.

SHEET NO.
11

SUMMARY

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: B. BOONE 07/2025
REVIEWED BY: J. BRAZILL 05/2026
CHECKED BY: J. SOLIDAY 05/2026

MONTANA Department of Transportation
ROAD PLANS

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SUMMARY

GRADING

STATION FROM	STATION TO	cu. yards UNCL. EXC.	cu. yards EXCESS EXC.	cu. yards EMB.+	REMARKS
WESTBOUND					
102+00.00	323+72.25	16,592		3,141	MAINLINE #
196+14.00	203+00.00			1,546	RE-GRADE TO MATCH PROFILE
212+50.00	222+63.00			1,580	RE-GRADE TO MATCH PROFILE
254+50.00	263+10.52			746	RE-GRADE TO MATCH PROFILE
EASTBOUND					
1002+00.00	1222+84.75	16,527		3,129	MAINLINE #
1049+00.00	1056+50.00			650	RE-GRADE TO MATCH PROFILE
1171+99.95	1177+50.00			715	RE-GRADE TO MATCH PROFILE
1215+68.54	1223+00.00			380	RE-GRADE TO MATCH PROFILE
WHITEHALL INTERCHANGE					
RAMP "B"					
20+00.00	34+96.73	825		212	#
RAMP "C"					
30+00.00	46+85.68	930		239	#
TOTAL		34,874	* 22,536	* 12,338	

GRADE 0.35' DEPTH DURING PULVERIZATION PROCESS. QUANTITIES INCLUDE SURFACING INSLOPES. SEE TYPICALS.
* FOR INFORMATION ONLY

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	516		516
STRIPING - YELLOW PAINT	gallon	422		422
WORDS & SYMBOLS - WHITE PAINT	gallon	2		2
STRIPING - WHITE EPOXY	gallon		345	345
STRIPING - YELLOW EPOXY	gallon		281	281
WORDS & SYMBOLS - WHITE EPOXY	gallon		2	2
TEMPORARY STRIPING *	linear feet			14,606
FINAL SWEEP AND BROOM	course mile			8.6

BASED ON 2 APPLICATIONS.
* BASED ON 4" WIDE STRIPING

STREET EXCAVATION

STATION FROM	STATION TO	cu. yards STREET EXC.	REMARKS
WESTBOUND			
100+00.00 BE	102+00.00	334	TYPICAL SECTION NO. 1
323+72.25	325+72.25 BE	334	TYPICAL SECTION NO. 4
EASTBOUND			
1000+00.00 BE	1002+00.00	334	TYPICAL SECTION NO. 1
1222+84.75	1224+84.75 BE	334	TYPICAL SECTION NO. 4
TOTAL		1,336	

INCLUDES EXISTING PLANT MIX REMOVAL AND CAC EXCAVATION, AVG. DEPTH BASED ON 0.90'

PULVERIZATION

STATION FROM	STATION TO	sq. yards PAVEMENT PULVERIZATION 1.10 FT	REMARKS
WEST BOUND			
102+00.00	323+72.25	115,296	TYPICAL SECTION NO. 2 & TYPICAL SECTION NO. 3
EAST BOUND			
1002+00.00	1222+84.75	114,841	TYPICAL SECTION NO. 2 & TYPICAL SECTION NO. 3
WESTBOUND RAMP "B"			
20+00.00	29+53.95	3,392	TYPICAL SECTION NO.5
29+53.95	34+96.73	965	TYPICAL SECTION NO. 5 (INCLUDES GORE/TAPER)
EASTBOUND RAMP "C"			
30+00.00	35+05.47	1,797	TYPICAL SECTION NO. 5
35+05.47	46+85.68	2,098	TYPICAL SECTION NO. 5 (INCLUDES GORE/TAPER)
TOTAL		238,390	

TRAFFIC CONTROL *

STATION # FROM	STATION # TO	each RAMP CROSSOVER	each CROSSOVER	miles TWO-WAY TRAFFIC	REMARKS
45+89	56+36		3		BEYOND PROJECT LIMITS-WEST
109+03	119+45	3			
444+16	451+63	3			BEYOND PROJECT LIMITS-EAST
519+51	526+79		3		BEYOND PROJECT LIMITS-EAST
45+89	526+79			9.3	PHASE 2 - CULVERT
45+89	526+79			9.3	PHASE 3 -CULVERT, PULV.
45+89	526+79			9.3	PHASE 4 -PULV.
TOTAL		6	6	27.9	

STATIONING DERIVED FROM WESTBOUND ALIGNMENT
* SEE SPECIAL PROVISIONS FOR ANTICIPATED SEQUENCING PHASES

RUMBLE STRIPS

STATION FROM	STATION TO	miles RUMBLE STRIPS CONTIN-UOUS	miles RUMBLE STRIPS INTER-MITTENT	gals EMULSIFIED ASPHALT FOG SEAL #	REMARKS
WESTBOUND					
100+00.00 BE	325+72.25 BE	4.3	3.6	463	
EASTBOUND					
1000+00.00 BE	1224+84.75 BE	4.3	3.5	458	
SUBTOTAL		8.6	7.1	921	
TOTAL		15.7		~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS

MEDIAN CROSSOVER *

STATION # FROM	STATION # TO	each CROSSOVER - MAINTAIN & CLOSE	linear feet HIGH - TENSION CABLE RAIL	linear feet RESET CABLE GUARDRAIL	each HIGH - TENSION CABLE RAIL - TERMINAL SECTION	REMARKS
45+89	56+36	1		416		
109+03	119+45	1	444		2	RAMP CROSSOVER
444+16	451+63	1	425		2	RAMP CROSSOVER
519+51	526+79	1	405		2	
TOTAL		4	1,274	416	6	

* SEE SPECIAL PROVISIONS
# STATIONING DERVIVED FROM WESTBOUND ALIGNMENT

TEMPORARY BARRIER RAIL

STATION FROM	STATION TO	each TEMPORARY BARRIER RAIL	each RESET TEMPORARY BARRIER RAIL	each TEMPORARY IMPACT ATTENUATOR	each RESET TEMPORARY IMPACT ATTENUATOR	REMARKS
WESTBOUND						
119+08.00	122+08.00	300		2		CULVERT INSTALLATION PHASE 1
EASTBOUND						
1018+75.00	1021+75.00		300		2	CULVERT INSTALLATION PHASE 2
TOTAL		300	300	2	2	

MISCELLANEOUS ITEMS

STATION FROM	STATION TO	hours EXPLORATORY EXCAVATION	REMARKS
119+85 (WB)		10	GAS TRANS. MAIN @ CULVERT
TOTAL		10	

SHEET NO. 12

SUMMARY

PROJECT NAME WHITEHALL - EAST
COUNTY JEFFERSON
PROJECT ID IM 90-5(101)249
UPN 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

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MONTANA Department of Transportation

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HYDRAULIC DATA SUMMARY *

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)	
120+45 (WB), 1020+14 (EB)	Whitetail Creek (Whitetail Deer Creek)	180.4	20' x 11' RCB	2,030	1	4370.87	2,030	4370.87	2,760	0.25	4375.40	Qp(max)

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 HEAD 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

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PRELIMINARY

SHEET NO. 13

HYDRAULIC DATA SUMMARY

PROJECT NAME WHITEHALL-EAST
COUNTY JEFFERSON
PROJECT ID IM 90-5(101)249
UPN 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

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MONTANA Department of Transportation

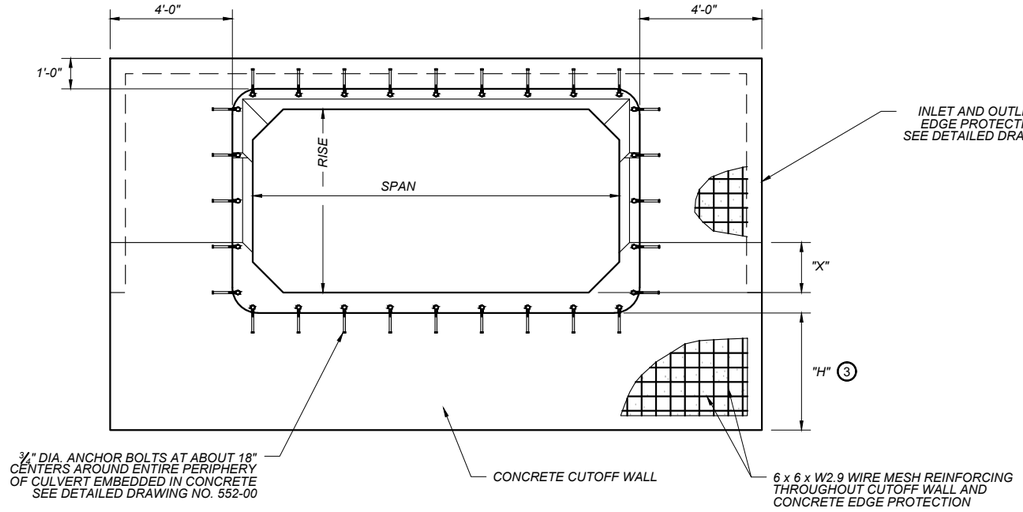
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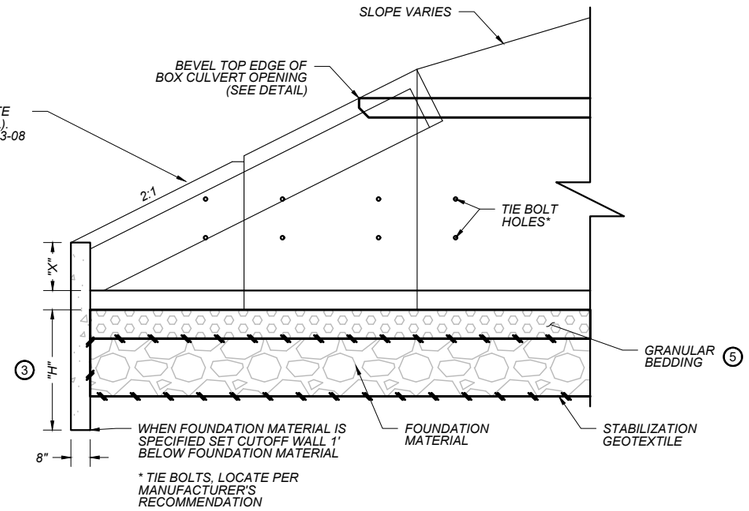
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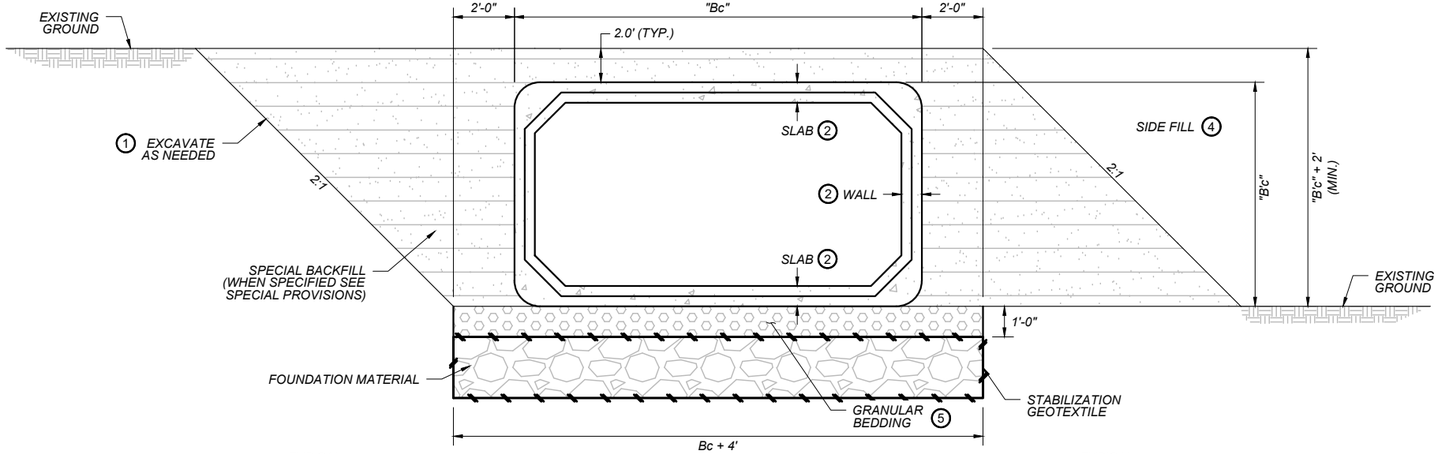
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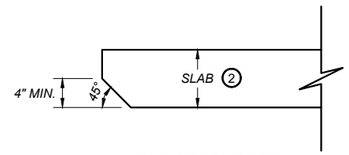
FRONT ELEVATION



SIDE ELEVATION



BEDDING DETAIL



TOP BEVEL DETAIL

DIMENSIONS										
STATION	SPAN (ft.)	RISE (ft.)	LENGTH (ft.)	WALL (in.)	SLAB (in.)	"X" (ft.)	"Bc" (ft.)	"B'c" (ft.)	"H" (ft.)	COVER (ft.)
120+45 (WB), 1020+14 (EB)	20	11	228	16	16	2	13.67	15.67	4	3.9
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

NOTES:
INCLUDE REINFORCING, CUTOFF WALL, AND CONCRETE EDGE PROTECTION IN THE UNIT PRICE BID PER CUBIC YARD OF CLASS GENERAL CONCRETE.
INCLUDE ANCHOR BOLTS IN THE UNIT PRICE BID PER LINEAR FOOT OF CULVERT.
PROVIDE BOX CULVERTS MEETING ASTM C1577.
QUANTITIES ARE BASED ON THE DIMENSIONS IN THE TABLE.

NOTES:

1. EXCAVATE A SUFFICIENT AMOUNT TO PROVIDE A SAFE WORKING ENVIRONMENT AND TO ALLOW ACHIEVEMENT OF ALL CULVERT INSTALLATION AND COMPACTION REQUIREMENTS. SLOPE, BENCH OR PROVIDE SHORING FOR ALL EXCAVATIONS IN ACCORDANCE WITH THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION.
2. FOR ESTIMATING QUANTITIES ONLY. ACTUAL DIMENSION TO BE DETERMINED BY PRECAST MANUFACTURER.
3. 3'-0" MIN.OR 1'-0" BELOW BOTTOM OF FOUNDATION MATERIAL IF SPECIFIED.
4. COMPACT AND PLACE SIDE FILL PER SECTION 603 AND 203 OF THE STANDARD SPECIFICATIONS.
5. SEE SECTION 701 OF THE STANDARD SPECIFICATIONS FOR GRANULAR BEDDING REQUIREMENTS. THE CONTRACTOR HAS THE OPTION OF USING A SAND CUSHION ABOVE THE GRANULAR BEDDING TO FACILITATE JOINING OF THE BOX CULVERT SECTIONS.

PRELIMINARY

SHEET NO. 14

RCB CULVERT DETAIL

PROJECT NAME: WHITEHALL-EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

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MONTANA Department of Transportation

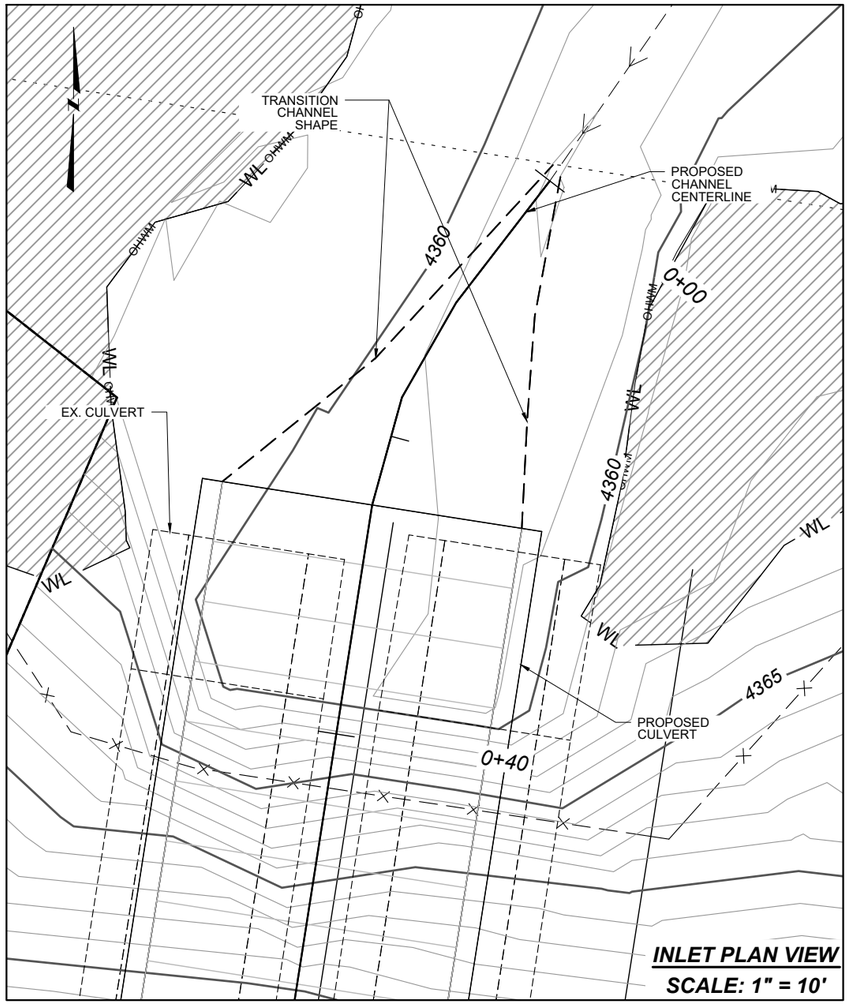
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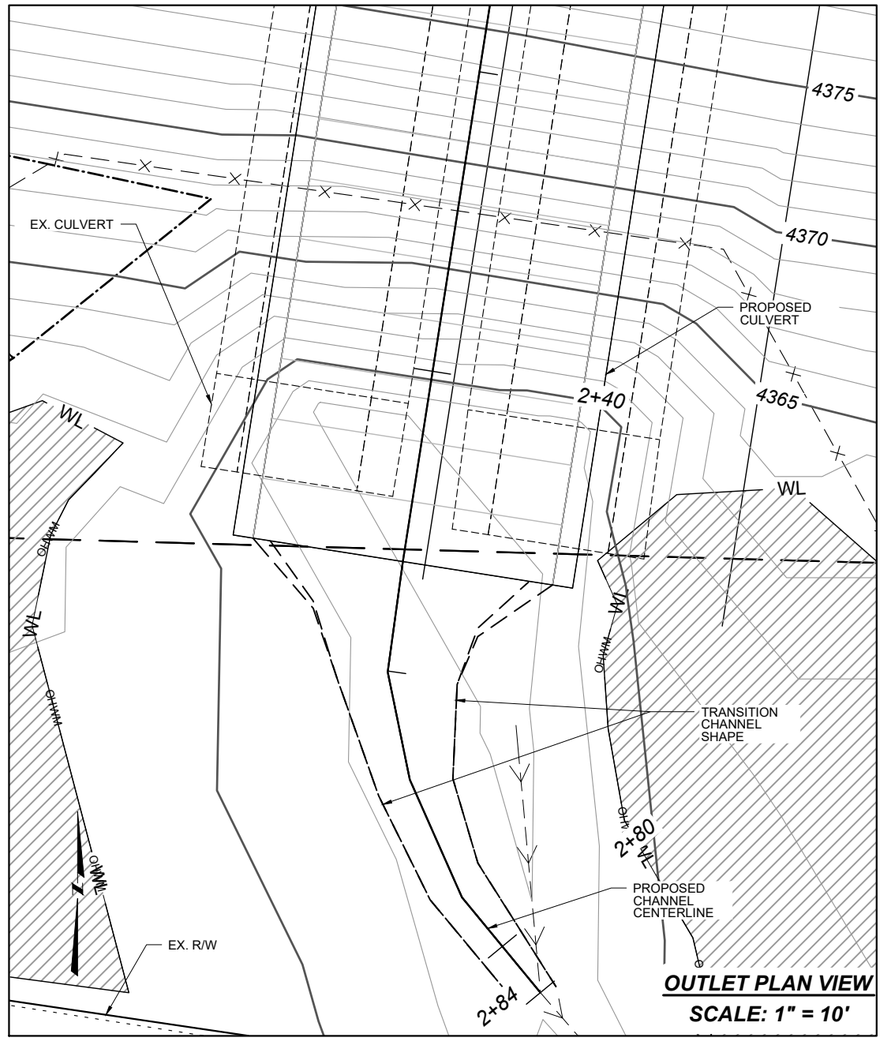
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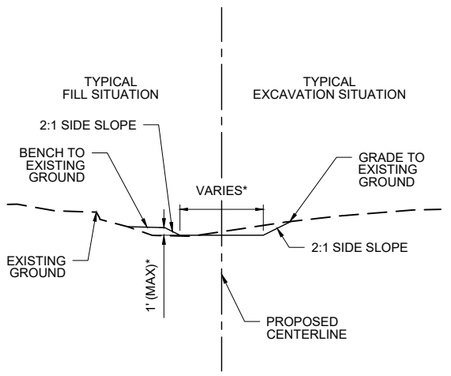


INLET PLAN VIEW
SCALE: 1" = 10'

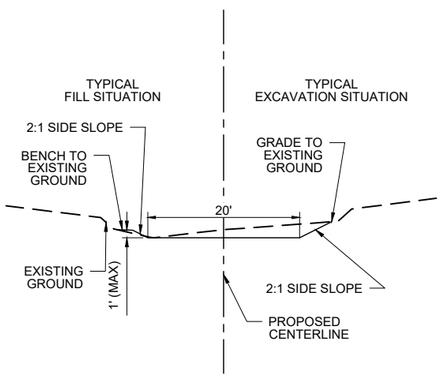


OUTLET PLAN VIEW
SCALE: 1" = 10'

CHANNEL SECTION NO. 1

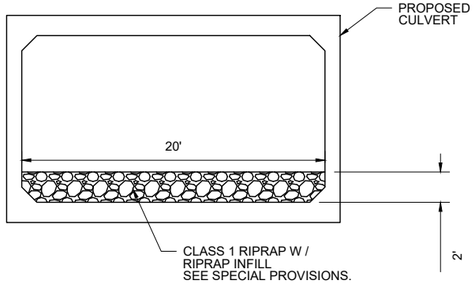


CHANNEL SECTION NO. 2



*TIE INTO PRECONSTRUCTION (EXISTING) CONDITIONS AT THE BEGINNING AND END OF THE ALIGNMENT

CHANNEL SECTION NO. 3



CHANNEL GRADING TABLE					
			0+00.00		EXISTING GROUND
0+00.00		TO	0+24.70		TRANS CHAN. SEC. NO.1 TO CHAN. SEC. NO. 2
0+24.70		TO	2+52.70		CHAN. SEC. 3
2+52.70		TO	2+84.00		TRANS CHAN. SEC. NO. 2 TO CHAN. SEC. NO. 1
2+84.00					EXISTING GROUND

PRELIMINARY

SHEET NO. 15

CHANNEL GRADING DETAIL

PROJECT NAME: WHITEHALL-EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

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MONTANA Department of Transportation

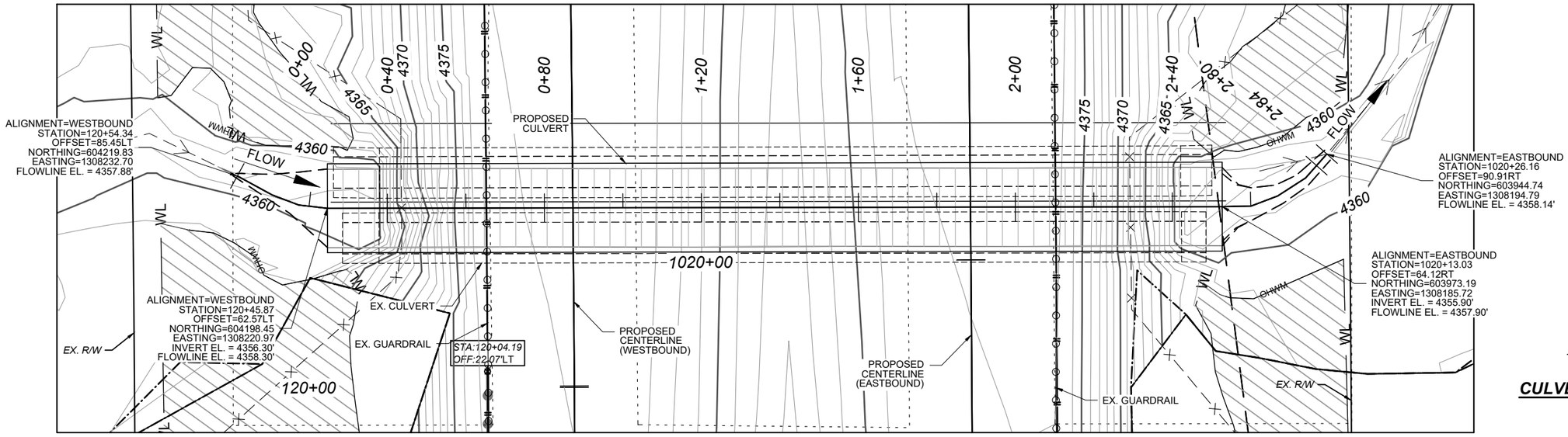
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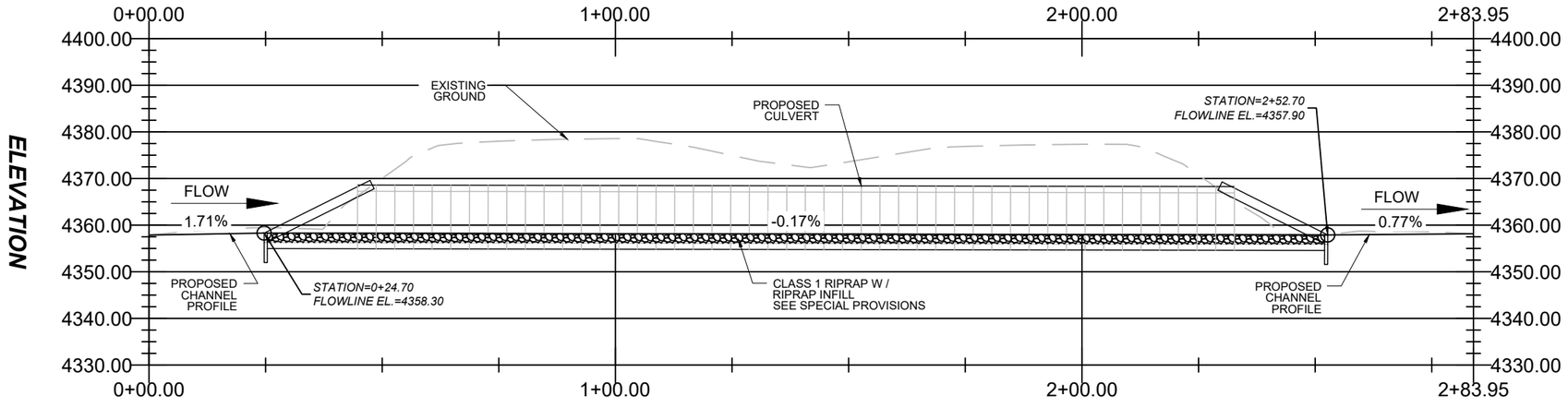
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CULVERT INFILL PLAN VIEW
SCALE: 1" = 30'



CULVERT INFILL PROFILE VIEW
SCALE: 1" = 30'

PRELIMINARY

SHEET NO. 16

CULVERT INFILL DETAIL

PROJECT NAME: WHITEHALL-EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025	
REVIEWED BY	J. BRAZILL	05/2026	
CHECKED BY	J. SOLIDAY	05/2026	

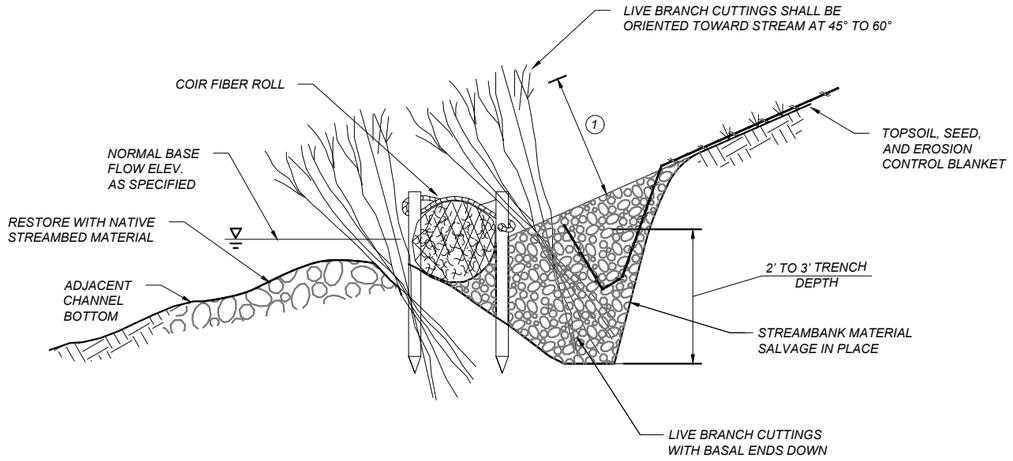
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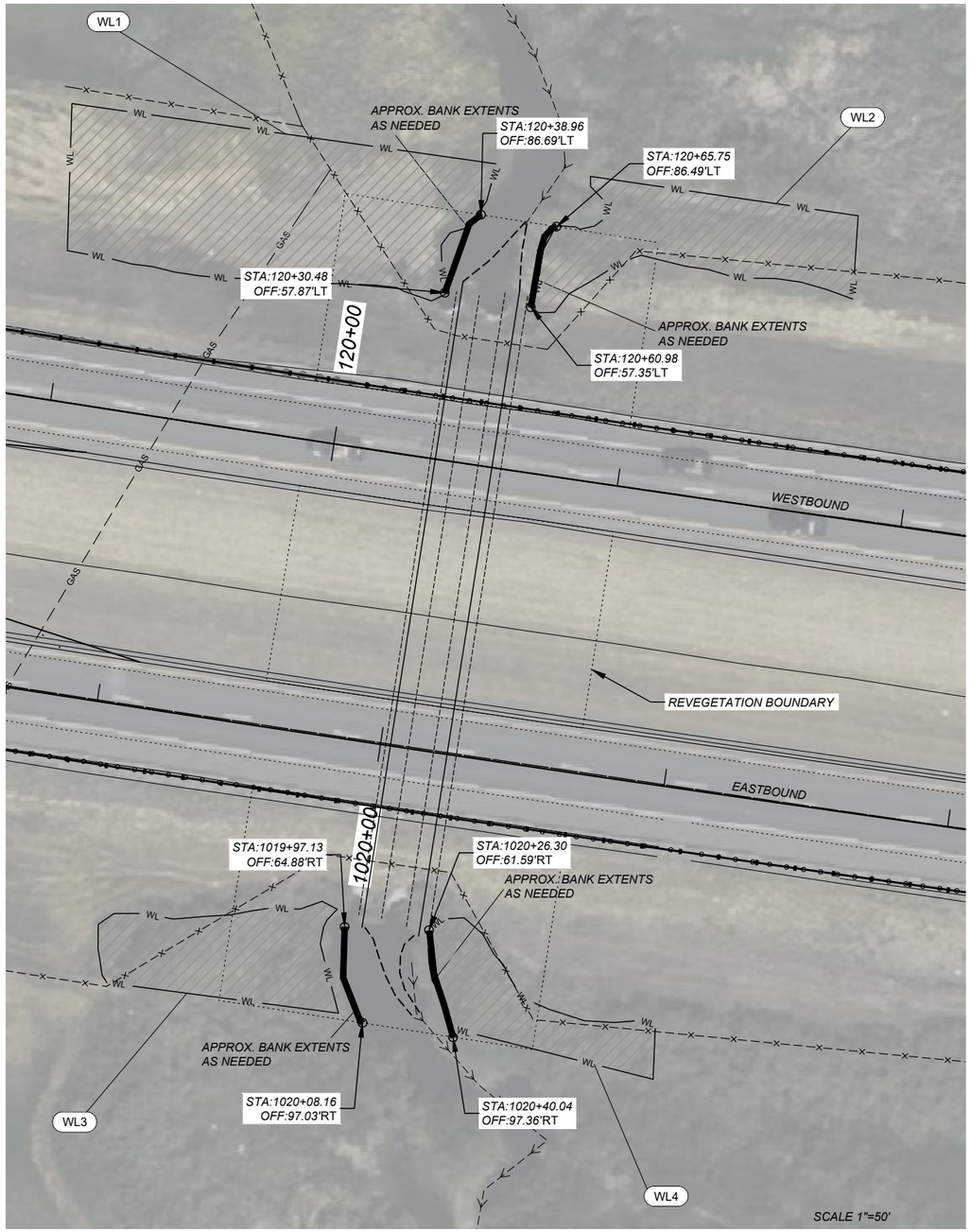


SECTION VIEW

WILLOW CUTTINGS WITH REVEGETATED SLOPE

NOTES:

1. *1/3 OF THE BRANCH LENGTH SHALL BE ABOVE TRENCH*
2. *SOURCE LOCAL WILLOWS IN VICINITY OF PROJECT, 3 to 5 FEET IN LENGTH 0.25-TO-2.0-INCH DIAMETER*
3. *PLACE LIVE AND DORMANT WILLOW SPRIGS AT A QUANTITY OF 10 SPRIGS TOTAL PER LINEAR FOOT ALONG APPROXIMATE EDGE OF BANK. NOTIFY MDT DISTRICT BIOLOGIST PRIOR TO WILLOW PLACEMENT.*
4. *GRADE, TOPSOIL, SEED, AND BLANKET EXPOSED AREA*
5. *CONTRACTOR MUST OBTAIN ALL NECESSARY PERMITS*
6. *GRADE SOIL TO MEET EXISTING UPSTREAM BANK*
7. *SEE SPECIAL PROVISIONS FOR ALLOWABLE MATERIALS*



SHEET NO. 17

BIOENGINEERED BANK DETAIL

PROJECT NAME: WHITEHALL - EAST

COUNTY: JEFFERSON

PROJECT ID: IM 90-5(101)249

UPN: 10003001

DESIGNED BY	B. BOONE	07/2025	
REVIEWED BY	J. BRAZILL	05/2026	
CHECKED BY	J. SOLIDAY	05/2026	

MONTANA Department of Transportation

ROAD PLANS

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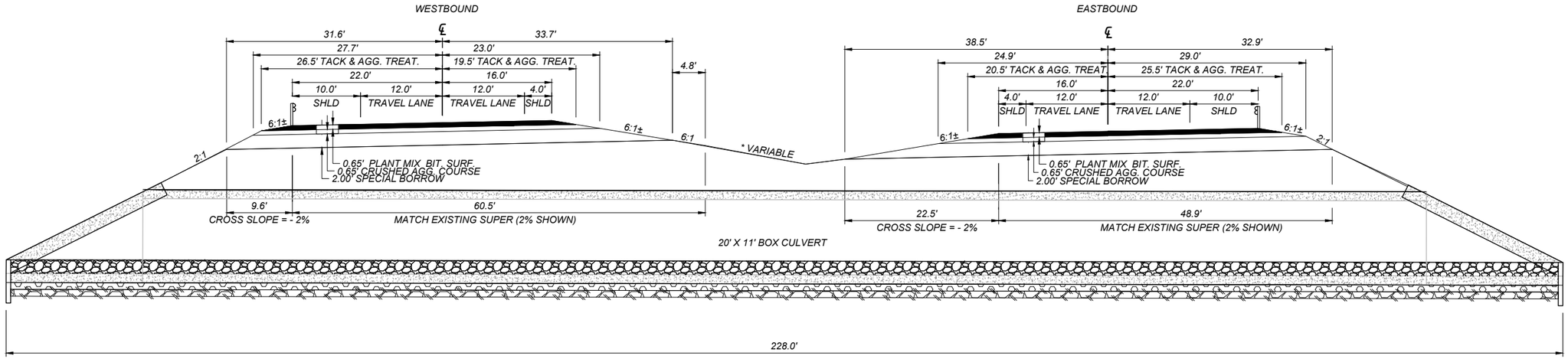
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WESTBOUND
120+00.00 TO 121+15.00

EASTBOUND
1019+67.00 TO 1020+82.00

119+08.00 TO 122+08.00 (WB)
INSTALL TEMP. BARRIER RAIL AND
IMPACT ATTENUATORS
CULVERT INSTALLATION PHASE 1

1018+75.00 TO 1021+75.00 (EB)
RESET TEMP. BARRIER RAIL AND
IMPACT ATTENUATORS
CULVERT INSTALLATION PHASE 2



IE = 4356.30'
EMBED 24"
120+45.87 (WB)
62.57' LT.

120+45 (WB) 1020+14 (EB)
REMOVE DBL. 12'-10" X 8'-4" SPPA
NEW 20' X 11' X 228' RCB
2:1 SLOPED ENDS LT. & RT.
5.7 C.Y. GENERAL CUTOFF WALLS LT. & RT.
10.9 C.Y. GENERAL CONCRETE INLET & OUTLET EDGE PROTECTION
8,302 C.Y. SPECIAL BACKFILL
224 C.Y. GRANULAR BEDDING MATERIAL
448 C.Y FOUNDATION MATERIAL
1,444 S.Y. GEOTEXTILE STAB.
SKEWED 0.4° LT.
8.1' COVER

IE = 4355.90'
EMBED 24"
1020+13.03 (EB)
64.12 RT.

ROAD QUANTITIES (WESTBOUND)

UNIT				UNIT	BITUMINOUS MATERIAL		
	PLANT MIX	CR. AGG. COURSE	SPECIAL BORROW		ASPHALT BINDER	AGG. TREATMENT	EMULSIFIED ASPHALT TACK*
AREA square feet	27.27	31.40	116.00	square yards PER STATION		511	2040
cubic yards PER STATION	101.0	116.3	429.6	tons PER STATION	10.51		
tons PER STATION	194.7			gals. PER STATION			102
square yards PER STATION							

* BASED ON 4 APPLICATIONS

ROAD QUANTITIES (EASTBOUND)

UNIT				UNIT	BITUMINOUS MATERIAL		
	PLANT MIX	CR. AGG. COURSE	SPECIAL BORROW		ASPHALT BINDER	AGG. TREATMENT	EMULSIFIED ASPHALT TACK*
AREA square feet	27.27	32.44	125.30	square yards PER STATION		511	2040
cubic yards PER STATION	101.0	120.1	464.1	tons PER STATION	10.51		
tons PER STATION	194.7			gals. PER STATION			102
square yards PER STATION							

* BASED ON 4 APPLICATIONS

SHEET NO.
18

BOX CULVERT DIGOUT DETAIL

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY		REVIEWED BY		CHECKED BY	
B. BOONE	07/2025	J. BRAZILL	05/2026	J. SOLIDAY	05/2026

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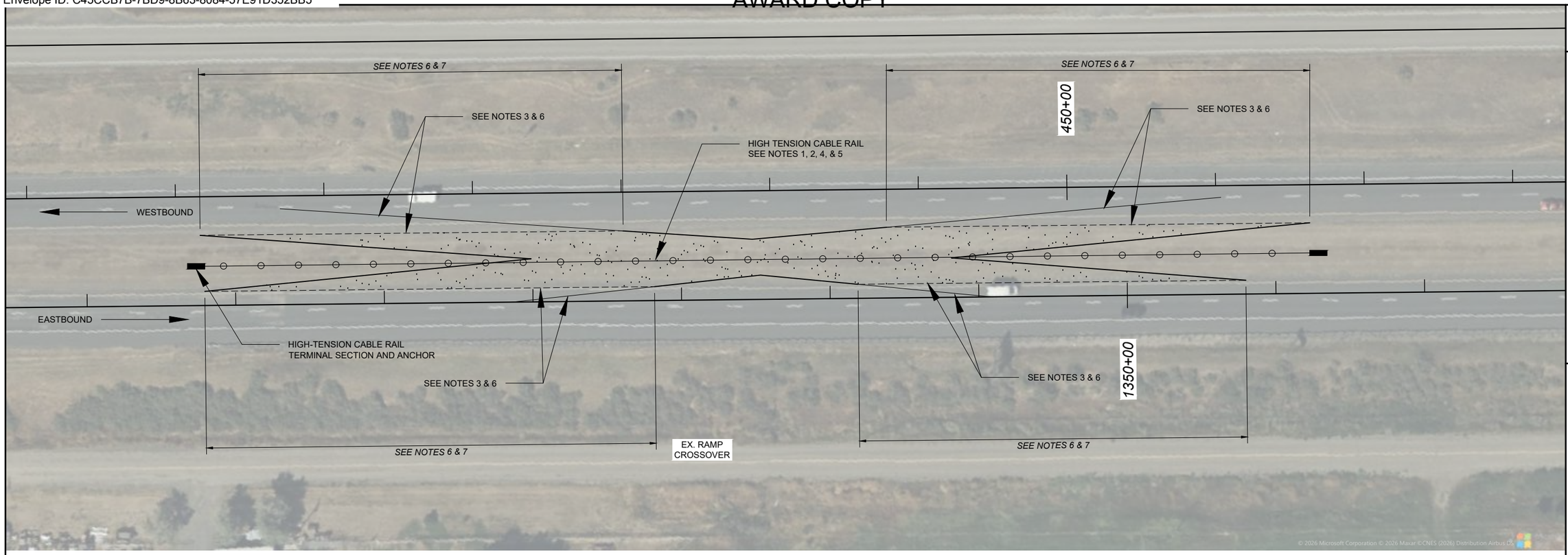
MONTANA
Department of Transportation

ROAD PLANS

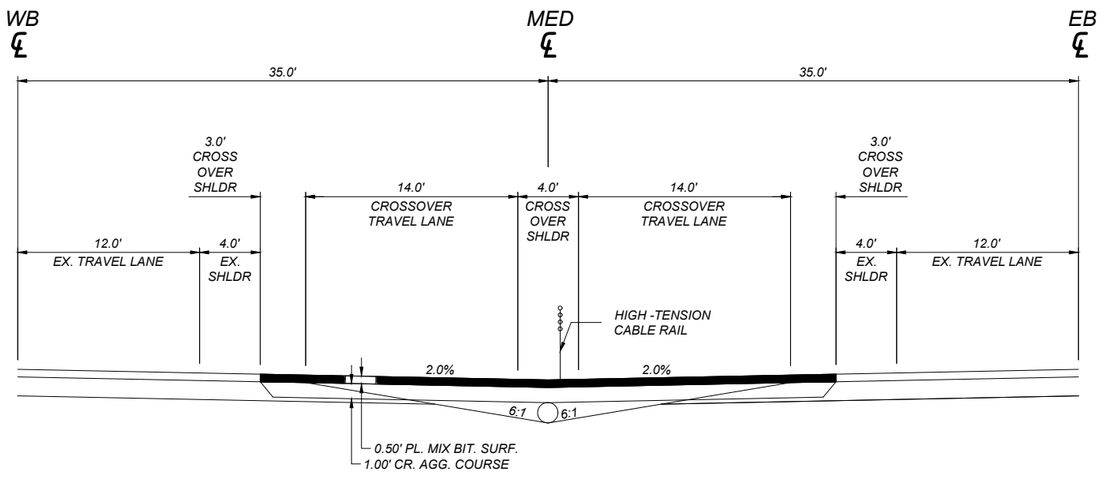
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CROSSOVER CLOSURE SECTION



NOTES:

1. INSTALL CABLE RAIL PER MANUFACTURER'S SPECIFICATIONS.
2. PLACE CABLE RAIL FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT (MINIMUM) EXCLUSIVE OF TERMINALS.
3. REMOVE CONFLICTING PAVEMENT MARKINGS, WHEN THEY NO LONGER APPLY, BY GRINDING, ABRASIVE BLASTING, OR HYDROBLASTING. APPLY FOG COAT TO AREAS WHERE PAVEMENT MARKINGS HAVE BEEN REMOVED.
4. DETERMINE FINAL LENGTH OF CABLE RAIL TO BE INSTALLED ONCE CONSTRUCTION OF THE CROSSOVER IS COMPLETE. INSTALL CABLE RAIL UPON COMPLETION OF CONSTRUCTION ACTIVITIES. CABLE RAIL AND TERMINALS ARE INCLUDED IN THE COST OF THE CROSSOVER.
5. REMOVE ALL TRAFFIC CONTROL DEVICES UPON COMPLETION OF CONSTRUCTION ACTIVITIES. CABLE RAIL TO MEET MASH TEST LEVEL 3 CRITERIA FOR HIGH TENSION CABLE RAIL SYSTEM AND TERMINALS APPROVED FOR USE IN MEDIANS OR BOTH TEMPORARY AND PERMANENT APPLICATIONS.
6. REESTABLISH MAINLINE LONGITUDINAL PAVEMENT MARKING LINE.
7. REESTABLISH RUMBLE STRIPS IF APPLICABLE.

SHEET NO. 19

CROSSOVER CLOSURE DETAILS

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

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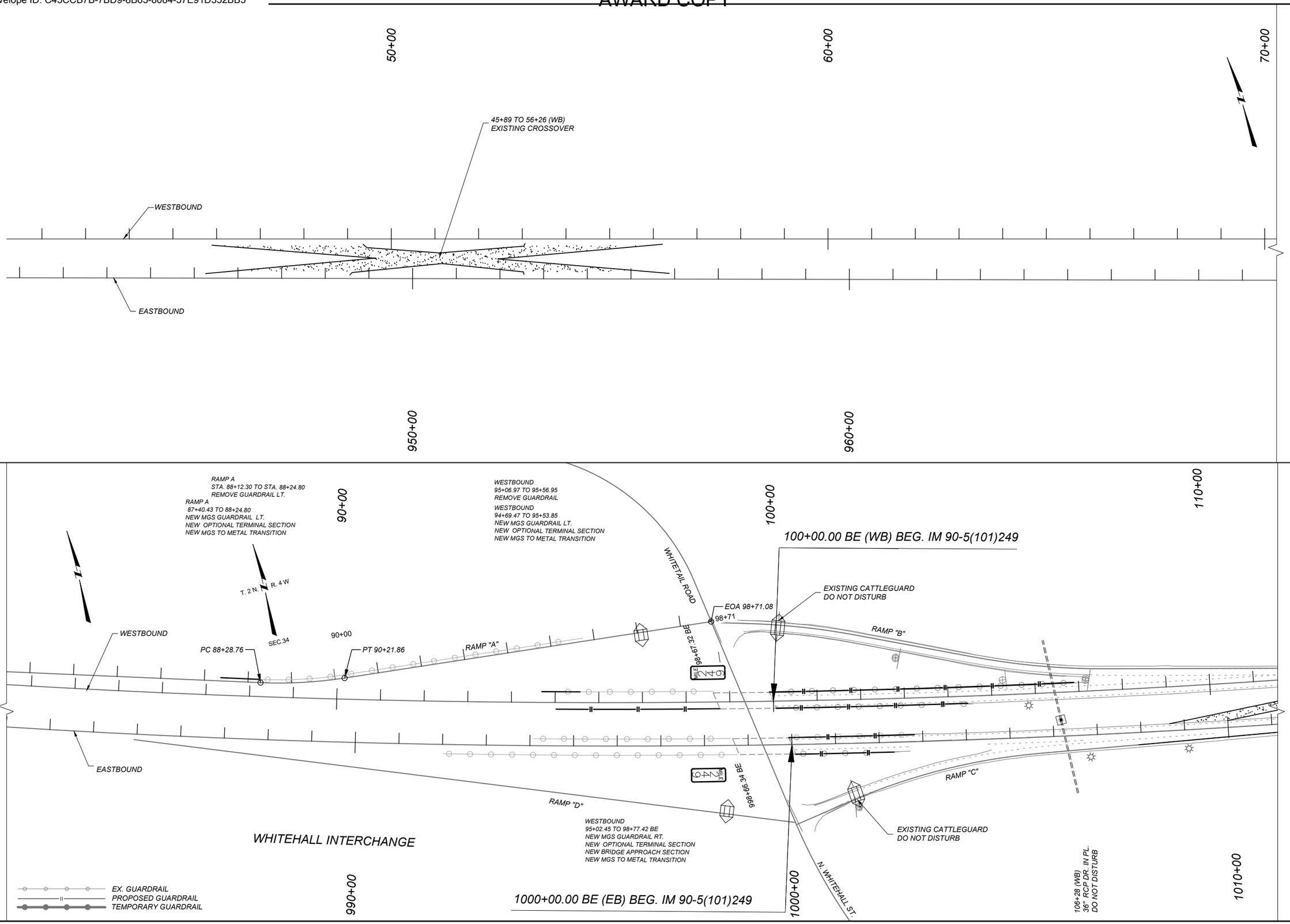
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SHEET NO. 20

GUARDRAIL AND MEDIAN CROSSOVER BEYOND PROJECT LIMITS - DETAIL

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	07/2025	B. BOONE	
REVIEWED BY	05/2026	J. BRAZILL	
CHECKED BY	05/2026	J. SOLIDAY	

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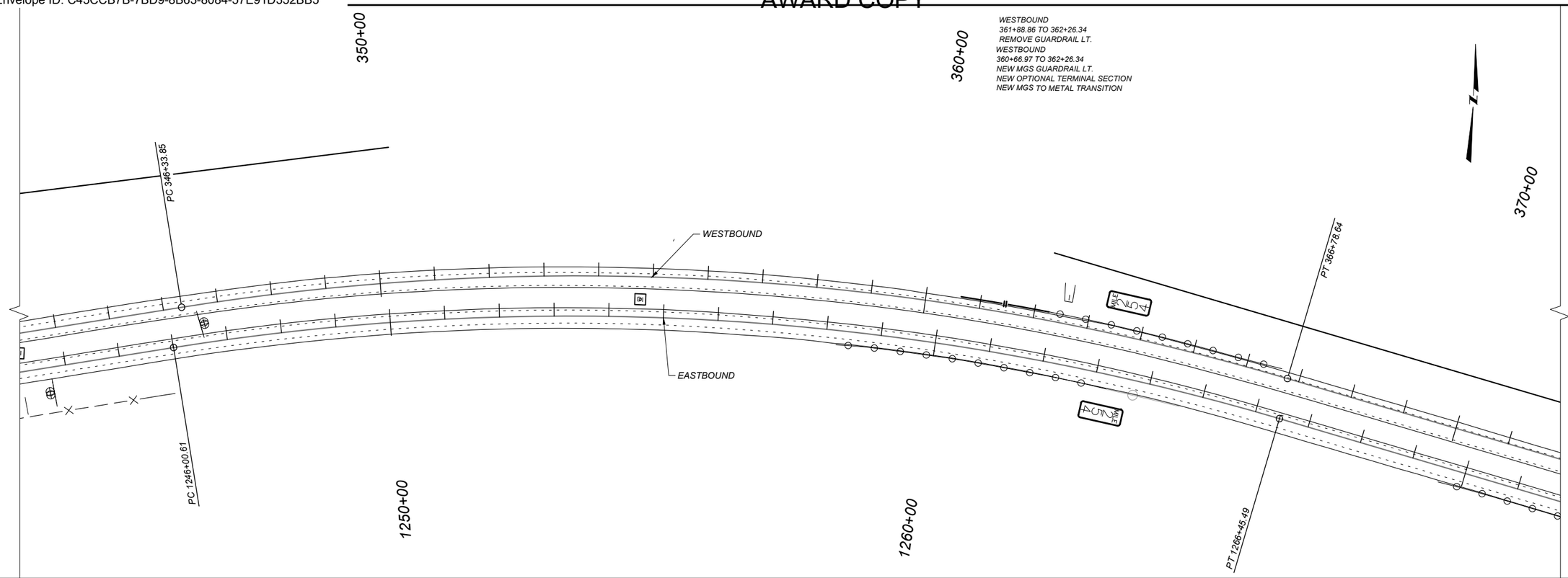
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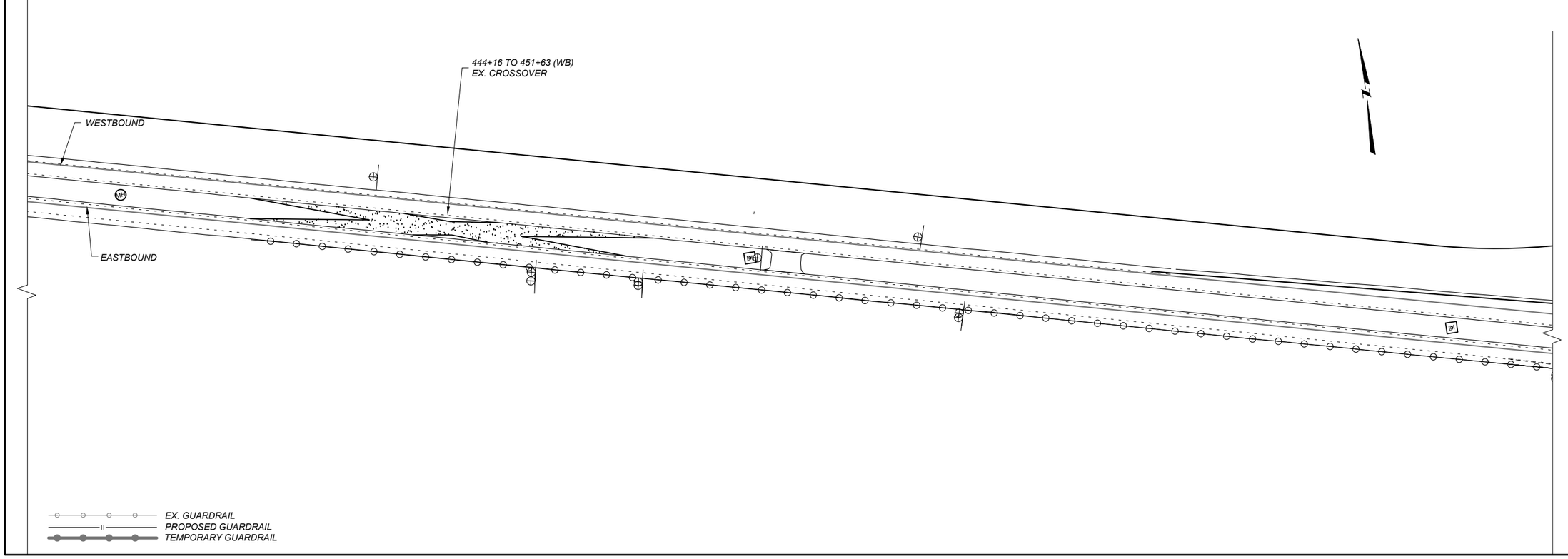
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SHEET NO. 21

GUARDRAIL BEYOND PROJECT LIMITS - DETAIL

PROJECT NAME **WHITEHALL - EAST**

COUNTY **JEFFERSON**

PROJECT ID **IM 90-5(101)249**

UPN **10003001**

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

10003001RDPLP003.DWG

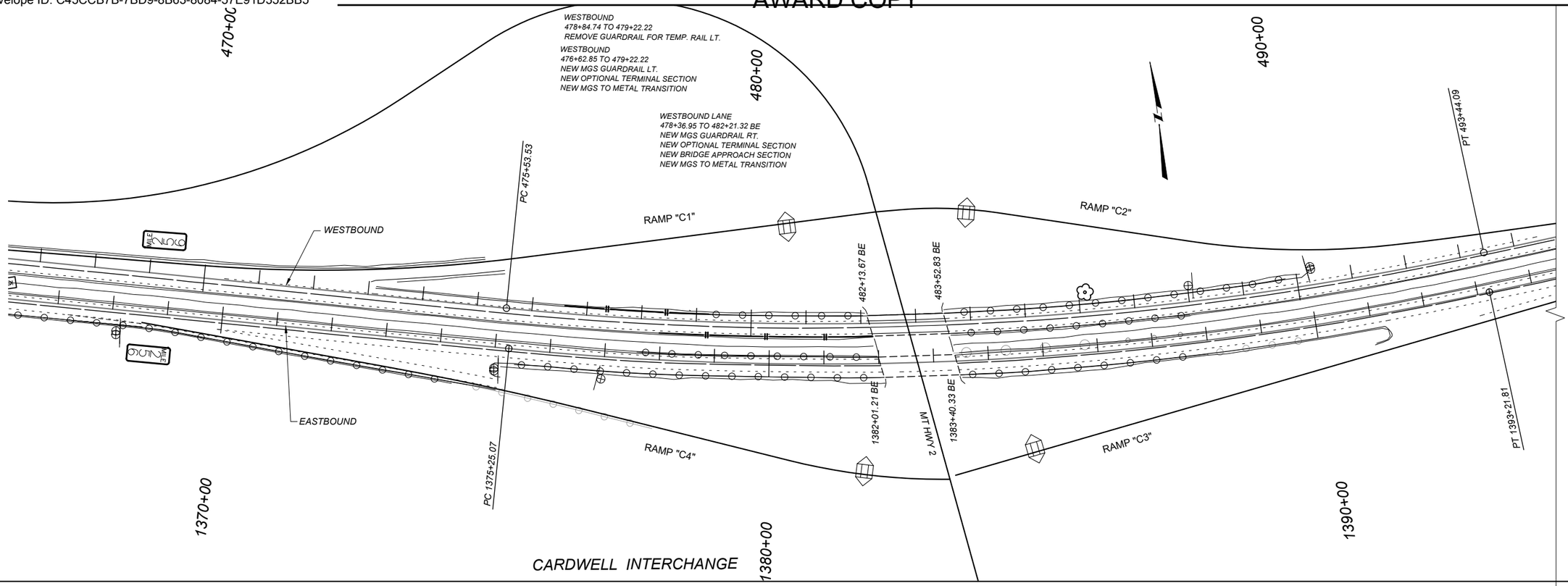
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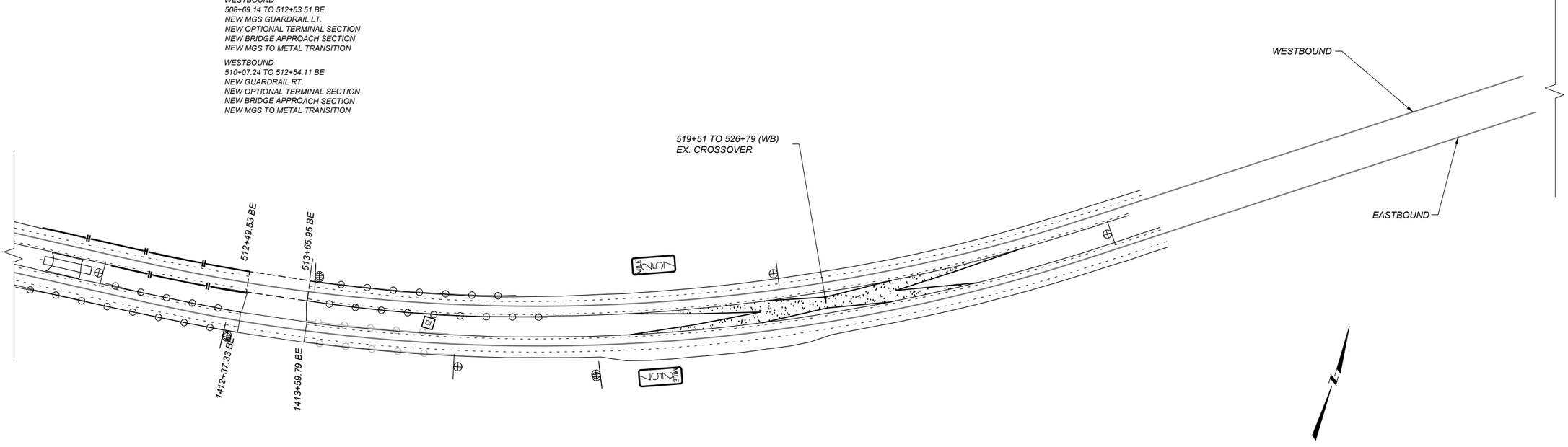
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SHEET NO.
22

GUARDRAIL AND MEDIAN CROSSOVER BEYOND PROJECT LIMITS - DETAIL

PROJECT NAME	WHITEHALL - EAST
COUNTY	JEFFERSON
PROJECT ID	IM 90-5(101)249
UPN	10003001

DESIGNED BY	B. BOONE 07/2025
REVIEWED BY	J. BRAZILL 05/2026
CHECKED BY	J. SOLIDAY 05/2026

MONTANA
Department of Transportation

ROAD PLANS

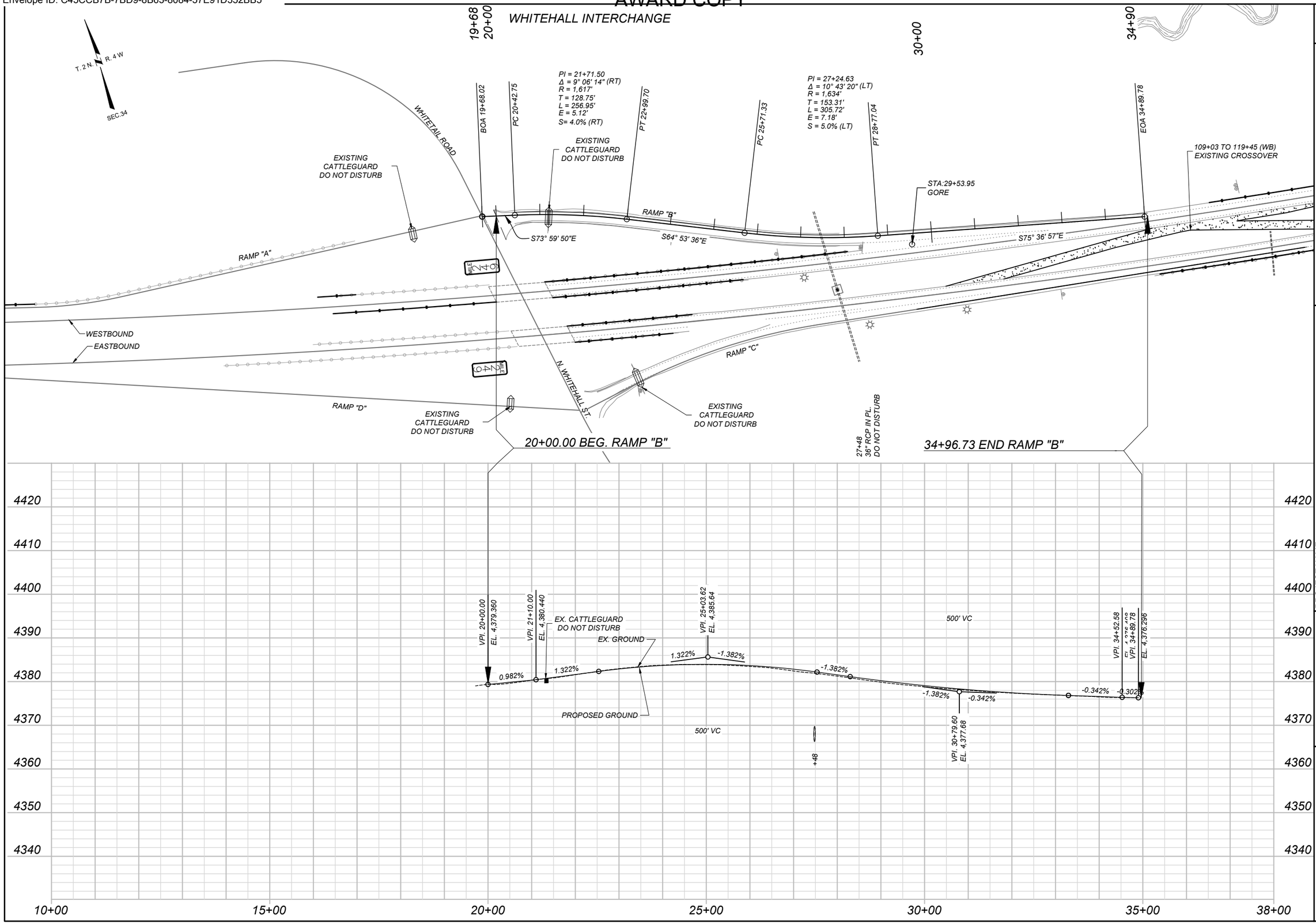
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WHITEHALL INTERCHANGE



SHEET NO. 23

PLAN AND PROFILE
WESTBOUND
RAMP "B"

PROJECT NAME	WHITEHALL - EAST
COUNTY	JEFFERSON
PROJECT ID	IM 90-5(101)249
UPN	10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

MONTANA
Department of Transportation

ROAD PLANS

10003001RDPLP004.DWG

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EXISTING CATTLEGUARD DO NOT DISTURB

WHITETAIL ROAD

EXISTING CATTLEGUARD DO NOT DISTURB

RAMP "B"

T. 2. N. R. 4. W.

SEC. 34

109+03 TO 119+45 (WB) EXISTING CROSSOVER

STA:35+05.38 GORE

WESTBOUND

EASTBOUND

N81° 05' 53"E

RAMP "C"

S80° 22' 29"E

S80° 35' 13"E

50:1 TAPER

EXISTING CATTLEGUARD DO NOT DISTURB

BOA 29+68.95

EXISTING CATTLEGUARD DO NOT DISTURB

WHITEHALL INTERCHANGE

N. WHITEHALL ST.

PC 31+03.52

PI = 33+29.72
Δ = 18° 31' 39" (RT)
R = 1,387'
T = 226.20'
L = 448.46'
E = 18.33'
S = 5.0% (LT)

PT 35+51.97

PI 38+02.43

36+18 36" RCP IN PL. DO NOT DISTURB

46+05 24" RCP IN PL. DO NOT DISTURB

EOA 46+85.68

30+00.00 BEG. RAMP "C"

46+85.68 END RAMP "C"

4420
4410
4400
4390
4380
4370
4360
4350
4340

VPI. 30+00.00
EL. 4,375.645

VPI. 33+02.28
EL. 4,385.54

VPI. 40+48.28
EL. 4,378.358

VPI. 44+12.04
EL. 4,376.357

VPI. 46+85.68
EL. 4,376.155

3.794% 3.058%

3.058%

-0.963%

EX. GROUND

-0.963%

-0.550%

-0.074%

EX. CATTLEGUARD DO NOT DISTURB

PROPOSED GROUND

401' VC

+18

+05

20+00 25+00 30+00 35+00 40+00 45+00 47+25

SHEET NO. 24

PLAN AND PROFILE EASTBOUND RAMP "C"

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

MONTANA Department of Transportation

ROAD PLANS

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100+00

110+00

120+00

T. 2 N. R. 4 W

SEC. 34

WHITETAIL ROAD

N. WHITEHALL ST.

WHITETAIL DEER CR.

EXISTING CATTLEGUARD DO NOT DISTURB

EXISTING CATTLEGUARD DO NOT DISTURB

WESTBOUND

EASTBOUND

98+70.80 BE

100+00.00 BE

100+00.00 BE (WB) BEG. IM 90-5(101)249

WHITEHALL INTERCHANGE

EX. GUARDRAIL
PROPOSED GUARDRAIL
TEMPORARY GUARDRAIL

PI = 114+67.12
Δ = 16° 43' 04" (LT)
R = 22,878'
T = 3,361.47'
L = 6,675.17'
E = 245.64'
S = 2.0% (LT)

109+03 TO 119+45 (WB)
EXISTING CROSSOVER

WL1 (WB)
DELINEATED AREA = 0.162 ACRES
PERMANENT IMPACT AREA = 0.000 ACRES

WL2 (WB)
DELINEATED AREA = 0.067 ACRES
PERMANENT IMPACT AREA = 0.000 ACRES

UTILITY CROSSINGS
119+41.78 (WB) - U.G.TRANSMISSION, UNKNOWN DEPTH

119+72.52 TO 120+94.51 LT.
REMOVE FENCE - CULVERT INSTALL.
NEW FARM FENCE

WL1
WL2
WL3
WL4

WL3 (EB)
DELINEATED AREA = 0.054 ACRES
PERMANENT IMPACT AREA = 0.000 ACRES

WL4 (EB)
DELINEATED AREA = 0.040 ACRES
PERMANENT IMPACT AREA = 0.000 ACRES

106+44
36" RCP IN PL.
DO NOT DISTURB

120+47
12'-10" X 8'-4" DBL SPPA
REMOVE

120+45
NEW 20' X 11' RCB

99+91.64 BE TO 106+91.64
REMOVE GUARDRAIL LT.

+91.64 BE

+88.52

NEW MGS GUARDRAIL LT.
NEW TYPE 3 BRIDGE APPROACH SECTION
NEW MGS TO METAL TRANSITION
NEW OPTIONAL TERMINAL SECTION

B.E. 98+71.00
EL. 4,398.04

B.E. 100+00.00
EL. 4,395.06

VPI. 100+00.00
EL. 4,395.063

4.340%

EX. GROUND

PROPOSED GROUND

+44

100+06.90 BE TO 104+56.90
REMOVE GUARDRAIL RT.

+06.90 BE

+53.78

NEW MGS GUARDRAIL RT.
NEW TYPE 3 BRIDGE APPROACH SECTION
NEW MGS TO METAL TRANSITION
NEW OPTIONAL TERMINAL SECTION

+19.82

+04.19

119+79.19 TO 120+04.19
REMOVE GUARDRAIL FOR TEMP. RAIL LT.

NEW TEMP. GUARDRAIL LT.
NEW TEMP. OPTIONAL TERMINAL SECTION

+26.07

115+19.82 TO 128+94.82
REMOVE GUARDRAIL

NEW MGS GUARDRAIL LT.
2 NEW OPTIONAL TERMINAL SECTIONS LT.

+95.13

+20.13

119+95.13 TO 121+20.13
REMOVE GUARDRAIL
RESET GUARDRAIL
(CULVERT INSTALL.)

3,000' VC

-2.340%

2.394%

+47

+46

VPI. 115+56.92
EL. 4,358.64

4430
4420
4410
4400
4390
4380
4370
4360
4350
4340

97+00
100+00
105+00
110+00
115+00
120+00
124+00

SHEET NO.
25

PLAN AND PROFILE
WESTBOUND

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: B. BOONE 07/2025
REVIEWED BY: J. BRAZILL 05/2026
CHECKED BY: J. SOLIDAY 05/2026
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Department of Transportation

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130+00

140+00

150+00

T. 2 N. R. 4 W.

SEC. 34

PI = 114+67.12
Δ = 16° 43' 04" (LT)
R = 22,878'
T = 3,361.47'
L = 6,675.17'
E = 245.64'
S = 2.0% (RT)

PT 147+80.82

S88° 21' 39"E

WESTBOUND

EASTBOUND

10003001-6

EX. GUARDRAIL
PROPOSED GUARDRAIL
TEMPORARY GUARDRAIL

137+47
24" RCP IN PL
DO NOT DISTURB

145+40
65' x40" RCAP IN PL
DO NOT DISTURB

+29.21

+13.58

135+88.58 TO 136+13.58
REMOVE GUARDRAIL FOR TEMP. RAIL LT.

NEW TEMP. GUARDRAIL LT.
NEW TEMP. OPTIONAL TERMINAL SECTION

+44.63

133+29.21TO 138+41.71
REMOVE GUARDRAIL

+04.00

+79.00

+38.38

+82.32

NEW MGS GUARDRAIL LT.
2 NEW OPTIONAL TERMINAL SECTIONS LT.

NEW MGS GUARDRAIL LT.
1 NEW OPTIONAL TERMINAL SECTION

NEW STIFFEN GUARDRAIL LT.

NEW MGS GUARDRAIL LT.
1 NEW OPTIONAL TERMINAL SECTION

VPI 144+88.04
EL. 4,428.80

2.394%

-1.965%

EX. GROUND

PROPOSED GROUND

2.394%

1,400' VC

+47

+40

4450
4440
4430
4420
4410
4400
4390
4380
4370

125+00
130+00
135+00
140+00
145+00
150+00

SHEET NO.
26

PLAN AND PROFILE
WESTBOUND

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	07/2025	REVIEWED BY	05/2026	
B. BOONE		J. BRAZILL		
CHECKED BY	05/2026	10003001RDPLP001.DWG		
J. SOLIDAY				

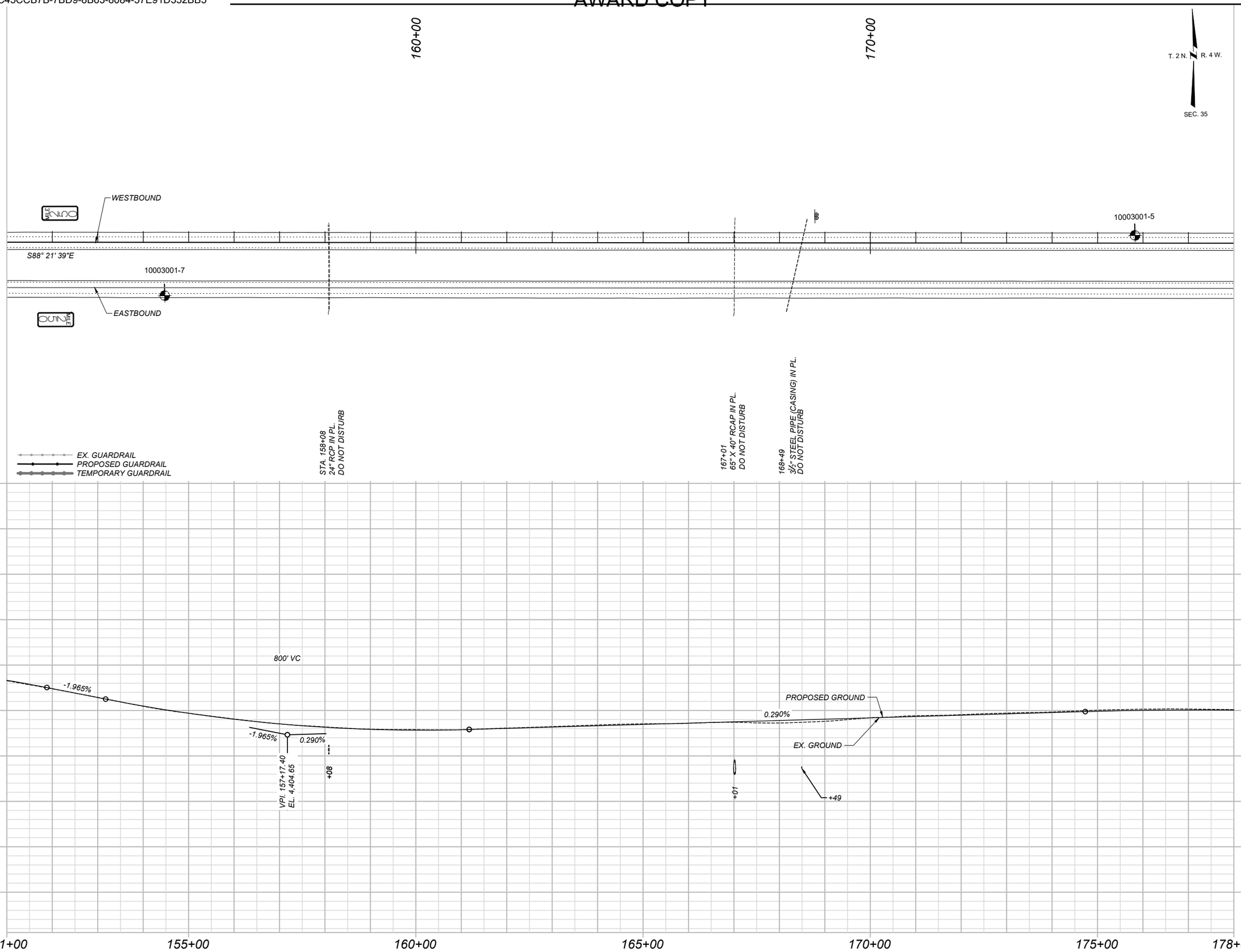
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Department of Transportation

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SHEET NO.
27

PLAN AND PROFILE
WESTBOUND

PROJECT NAME: **WHITEHALL - EAST**
COUNTY: **JEFFERSON**
PROJECT ID: **IM 90-5(101)249**
UPN: **10003001**

DESIGNED BY	07/2025	REVIEWED BY	05/2026	CHECKED BY	05/2026
B. BOONE		J. BRAZILL		J. SOLIDAY	

10003001RDPLP001.DWG

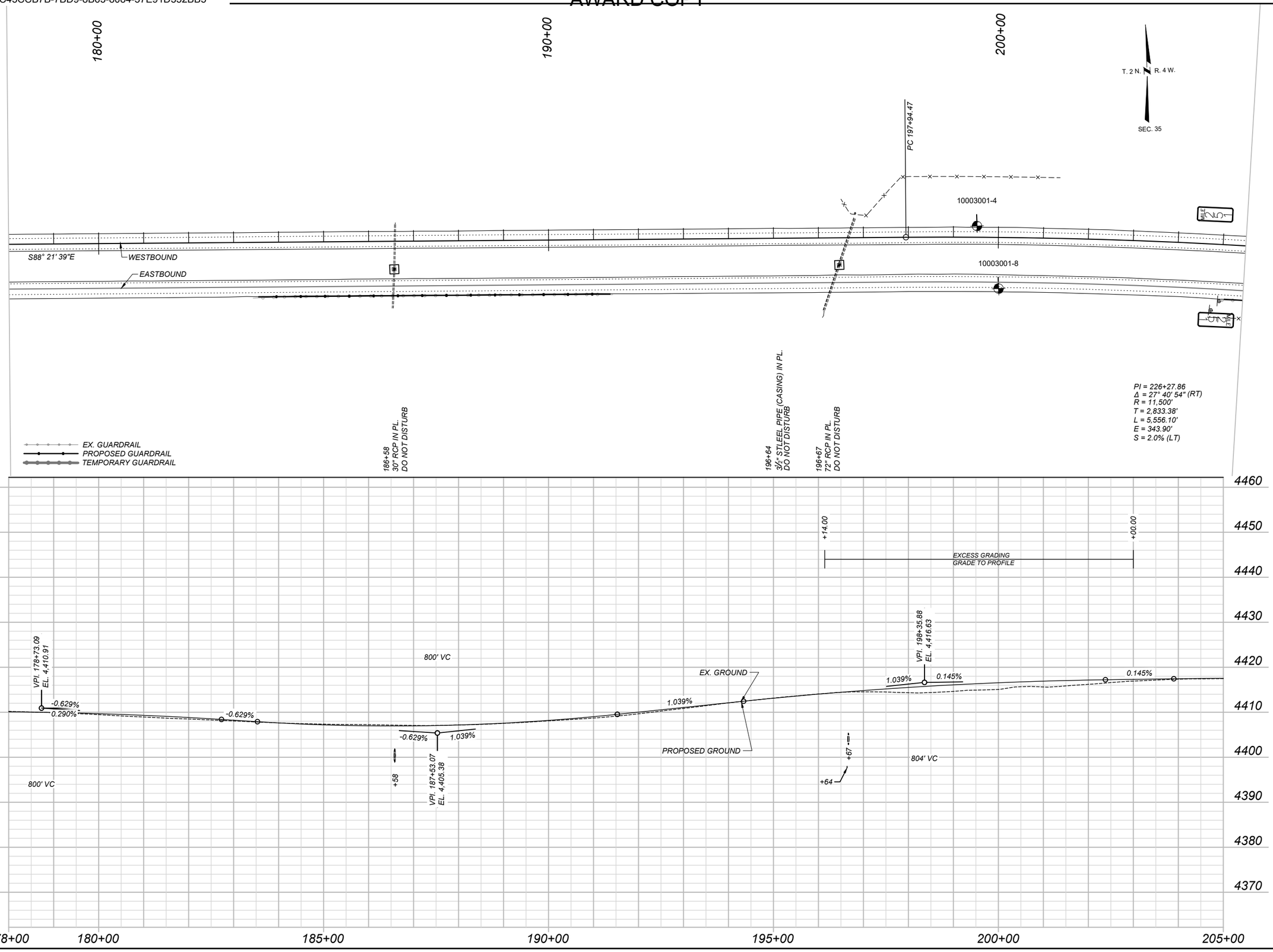
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Department of Transportation

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SHEET NO.
28

PLAN AND PROFILE
WESTBOUND

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

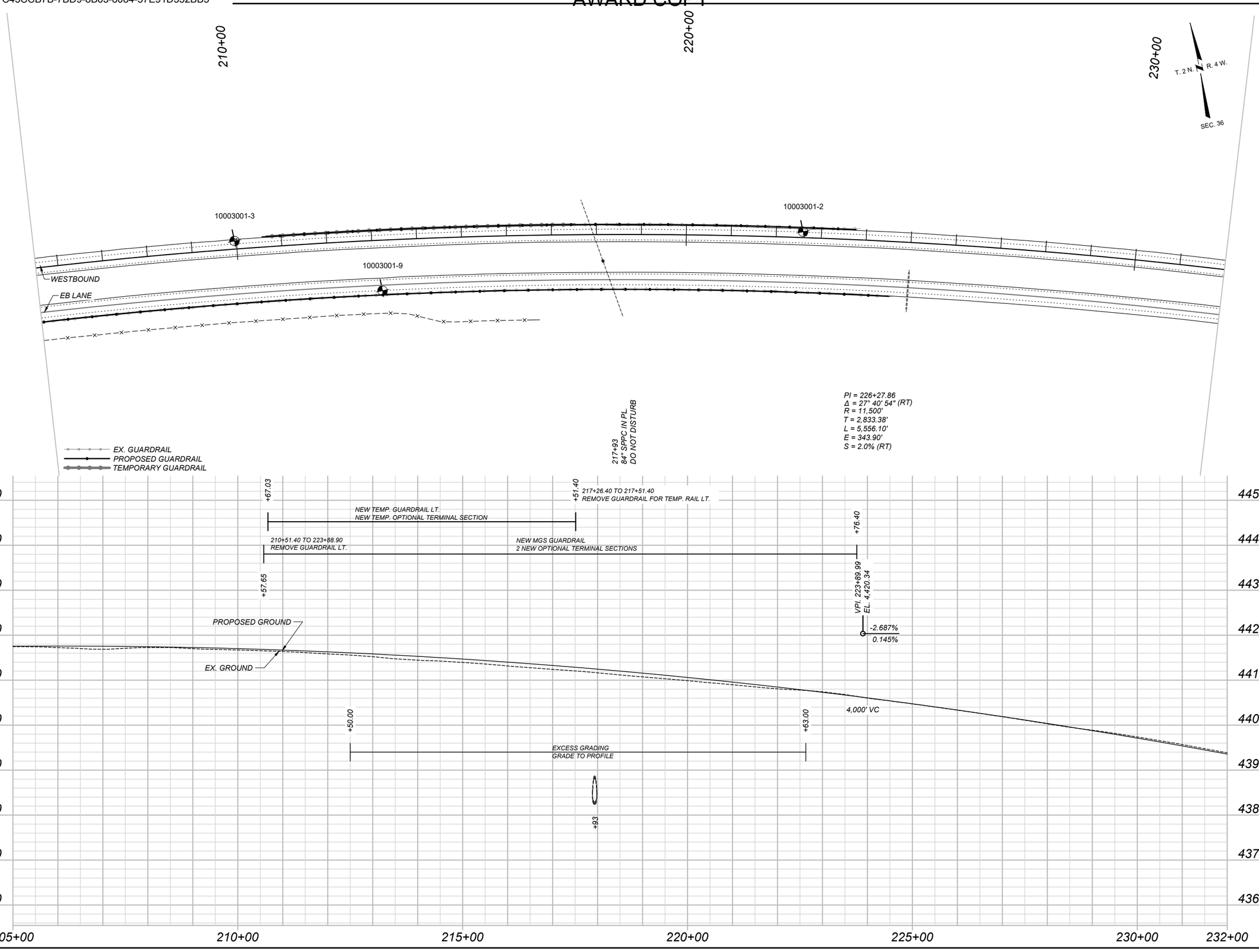
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Department of Transportation

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SHEET NO.
29

PLAN AND PROFILE WESTBOUND

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025	REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026			

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MONTANA
Department of Transportation

ROAD PLANS

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240+00

250+00

T. 1 N. R. 4 W.

SEC. 1

PT 253+50.58

TS 256+02.71

SC 258+52.71

MILE 2

WESTBOUND

EASTBOUND

S60° 40' 45"E

PI = 226+27.86
Δ = 27° 40' 54" (RT)
R = 11,500'
T = 2,833.38'
L = 5,556.10'
E = 343.90'
S = 2.0% (RT)

235+09
60" RCP IN PL.
DO NOT DISTURB

EX. GUARDRAIL
PROPOSED GUARDRAIL
TEMPORARY GUARDRAIL

+64.80

+99.17

234+74.17 TO 234+99.17
REMOVE GUARDRAIL FOR TEMP. RAIL LT.

NEW TEMPORARY GUARDRAIL LT.
NEW TEMP. OPTIONAL TERMINAL SECTION

+55.42

233+49.17 TO 238+36.67
REMOVE GUARDRAIL LT.

+24.17

NEW MGS GUARDRAIL LT.
2 NEW OPTIONAL TERMINAL SECTIONS

+09

EX. GROUND

PROPOSED GROUND

-2.687%

+50.00

EXCESS GRADING
GRADE TO PROFILE

4410
4400
4390
4380
4370
4360
4350
4340
4330

232+00
235+00
240+00
245+00
250+00
255+00
259+00

SHEET NO.
30

PLAN AND PROFILE
WESTBOUND

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: B. BOONE 07/2025
REVIEWED BY: J. BRAZILL 05/2026
CHECKED BY: J. SOLIDAY 05/2026

MONTANA
Department of Transportation

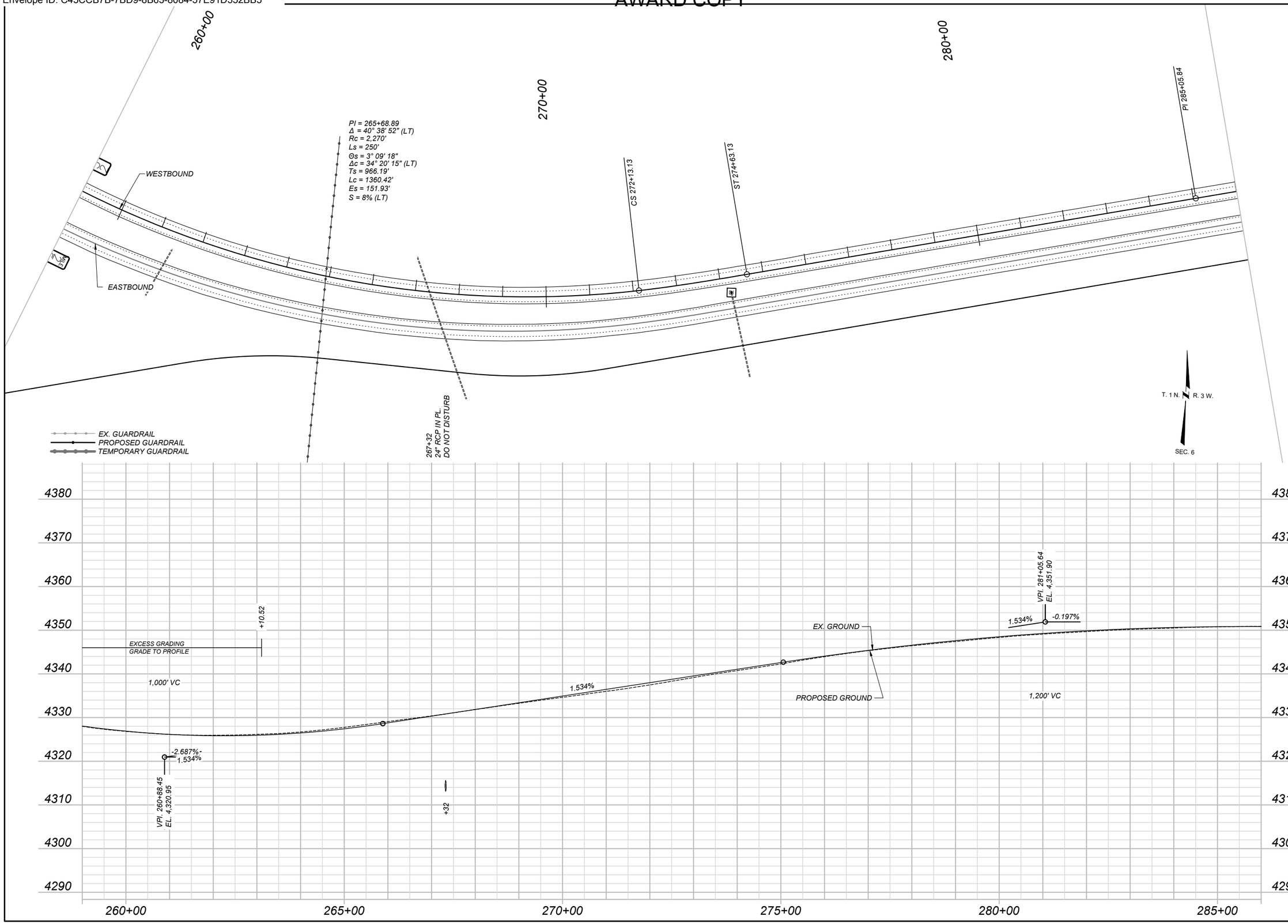
ROAD PLANS

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SHEET NO.
31

PLAN AND PROFILE
WESTBOUND

PROJECT NAME: **WHITEHALL - EAST**
COUNTY: **JEFFERSON**
PROJECT ID: **IM 90-5(101)249**
UPN: **10003001**

DESIGNED BY	B. BOONE	07/2025	REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026	10003001RDPLP001.DWG		

MONTANA
Department of Transportation

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290+00

300+00

310+00

WESTBOUND

EASTBOUND

10003001-10

EX. GUARDRAIL
PROPOSED GUARDRAIL
TEMPORARY GUARDRAIL

289+62
48" RCP IN PL.
DO NOT DISTURB

300+81
24" RCP IN PL.
DO NOT DISTURB

308+28
54" RCP IN PL.
DO NOT DISTURB

T. 1 N.
R. 3 W.
SEC. 6

PROPOSED GROUND

EX. GROUND

-0.197%

-0.197%

0.186%

800' VC

+62

+81

+28

VPI 306+72.79
EL. 4,346.65

4390
4380
4370
4360
4350
4340
4330
4320
4310
4300

286+00
290+00
295+00
300+00
305+00
310+00
313+00

SHEET NO.
32

PLAN AND PROFILE
WESTBOUND

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: B. BOONE 07/2025
REVIEWED BY: J. BRAZILL 05/2026
CHECKED BY: J. SOLIDAY 05/2026

MONTANA
Department of Transportation

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320+00

330+00

T. 2 N. R. 3 W.

SEC. 31

PI 325+72.42

MT HIGHWAY 2

WESTBOUND

10003001-1

10003001-11

EASTBOUND

325+72.33 BE

325+72.25 BE (WB) END IM 90-5(101)249

323+57
60" SSPPC IN PL
DO NOT DISTURB

EX. GUARDRAIL
PROPOSED GUARDRAIL
TEMPORARY GUARDRAIL

NEW TEMP. GUARDRAIL LT.
NEW TEMP. OPTIONAL TERMINAL SECTION

+34.98

+69.35

322+44.35 TO 322+69.35
REMOVE GUARDRAIL FOR
TEMP. RAIL LT.

+21.23

321+30.60 TO 325+93.10 BE
REMOVE GUARDRAIL LT.

+93.10

NEW MGS GUARDRAIL LT.
NEW OPTIONAL TERMINAL SECTION
NEW MGS TO METAL TRANSITION
NEW TYPE 3 BRIDGE APPROACH SECTION.

B.E. 325+72.25
EL. 4,350.39

B.E. 327+73.87
EL. 4,350.19

EX. GROUND

0.186%

VPI. 325+71.79
EL. 4,350.390

PROPOSED GROUND

+08.34

+57

+30.21

+55.32 BE

321+92.73 TO 325+30.23
REMOVE GUARDRAIL RT.

NEW MGS GUARDRAIL RT.
NEW OPTIONAL TERMINAL SECTION
NEW MGS TO METAL TRANSISTION

BRIDGE APPROACH SECTION
USE AS IS - ADDED UNDER
TEMPORARY GUARDRAIL

NEW TEMP. GUARDRAIL RT.
NEW TEMP. OPTIONAL TERMINAL SECTION
NEW TEMP. BRIDGE APPROACH SECTION

+08.45

+55.32 BE

4390
4380
4370
4360
4350
4340
4330
4320
4310
4300

313+00
315+00
320+00
325+00
330+00

SHEET NO. 33

PLAN AND PROFILE
WESTBOUND

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025	
REVIEWED BY	J. BRAZILL	05/2026	
CHECKED BY	J. SOLIDAY	05/2026	

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Department of Transportation

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990+00 1000+00 1010+00

T. 2 N. R. 4 W
SEC.34

WHITETAIL ROAD

EXISTING CATTLEGUARD DO NOT DISTURB

EXISTING CATTLEGUARD DO NOT DISTURB

RAMP "A"

RAMP "B"

PI = 1014+22.30
Δ = 16° 50' 10" (LT)
R = 22,711'
T = 3,360.99'
L = 6,673.54'
E = 247.35'
S = 2.0% (RT)

MILE 6.276

WESTBOUND

EASTBOUND

MILE 6.242

RAMP "C"

1008+66 TO 1019+00 (EB)
EXISTING CROSSOVER

RAMP "D"

EXISTING CATTLEGUARD DO NOT DISTURB

1000+00.00 BE (EB) BEG. IM 90-5(101)249

EXISTING CATTLEGUARD DO NOT DISTURB

N. WHITEHALL ST.

1006+25
36" RCP IN PL.
DO NOT DISTURB

WHITEHALL INTERCHANGE

EX. GUARDRAIL
PROPOSED GUARDRAIL
TEMPORARY GUARDRAIL

999+93.20 BE TO 1002+93.20
REMOVE GUARDRAIL LT.

+93.20 BE

+80.70

NEW MGS GUARDRAIL LT.
NEW TYPE 3 BRIDGE APPROACH SECTION
NEW MGS TO METAL TRANSITION
NEW OPTIONAL TERMINAL SECTION

B.E. 998+70.65
EL. 4,396.86

VPI. 999+99.00
EL. 4,394.12

-2.140%

EX. GROUND

PROPOSED GROUND

+25

1000+08.32 BE TO 1002+45.82
REMOVE GUARDRAIL RT.

+08.32 BE

+33.32

NEW MGS GUARDRAIL RT.
NEW TYPE 3 BRIDGE APPROACH SECTION
NEW MGS TO METAL TRANSITION
NEW OPTIONAL TERMINAL SECTION

1013+43.61 TO 1027+06.11
REMOVE GUARDRAIL RT.

+56.11

NEW MGS GUARDRAIL RT.
2 NEW OPTIONAL TERMINAL SECTIONS

4430 4420 4410 4400 4390 4380 4370 4360 4350 4340

988+00 990+00 995+00 1000+00 1005+00 1010+00 1015+00

SHEET NO. 34

PLAN AND PROFILE EASTBOUND

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

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UTILITY CROSSINGS
1018+70.07 (EB) - U.G.TRANSMISSION, UNKNOWN DEPTH

1020+00 | 1030+00 | 1040+00

WL1 (WB)
DELINEATED AREA = 0.162 ACRES
PERMANENT IMPACT AREA = 0.000 ACRES

WL2 (WB)
DELINEATED AREA = 0.067 ACRES
PERMANENT IMPACT AREA = 0.000 ACRES

T. 2 N. R. 4 W
SEC. 34

PI = 1014+22.30
Δ = 16° 50' 10" (LT)
R = 22,711'
T = 3,360.99'
L = 6,673.54'
E = 247.35'
S = 2.0% (RT)

1008+66 TO 1019+00 (EB)
EX. CROSSOVER

WESTBOUND

10003001-6

EASTBOUND

1036+25.41
GR_TEMP-

1037+22.29
GR_TEMP-

1019+18.34 TO 1020+66.67 (EB)
REMOVE FENCE - CULVERT INSTALL.
NEW FARM FENCE

WHITETAIL DEER CR.

1060+18
24" RCP IN PL.
DO NOT DISTURB

1020+14
NEW 20' X 11' RCB

1020+14
12'-10" X 8'-4" DBL. SPPA
REMOVE

WL3 (EB)
DELINEATED AREA = 0.054 ACRES
PERMANENT IMPACT AREA = 0.000 ACRES

WL4 (EB)
DELINEATED AREA = 0.040 ACRES
PERMANENT IMPACT AREA = 0.000 ACRES

1026+83
24" CSP IN PL.
DO NOT DISTURB

1037+23
24" RCP IN PL.
DO NOT DISTURB

EX. GUARDRAIL
PROPOSED GUARDRAIL
TEMPORARY GUARDRAIL

4420 | 4410 | 4400 | 4390 | 4380 | 4370 | 4360 | 4350 | 4340

PROPOSED GROUND
EX. GROUND

2.279%

3,000' VC

+18
+83
+23

-2.140%
2.279%

VPI. 1016+19.54
EL. 4,359.44

+14

+62.15
+13
+87.15

1019+62.15 TO 1020+87.15
REMOVE GUARDRAIL
RESET GUARDRAIL
(CULVERT INSTALL.)

NEW MGS GUARDRAIL RT.
2 NEW OPTIONAL TERMINAL SECTIONS

+99.86

1034+17.96 TO 1037+17.96
REMOVE GUARDRAIL RT.

NEW MGS GUARDRAIL-STIFFENED RT.

+91.04
+87.91
+62.91
+34.79

NEW MGS GUARDRAIL RT.
NEW OPTIONAL TERMINAL SECTION

NEW MGS GUARDRAIL RT.
NEW OPTIONAL TERMINAL SECTION

1015+00 | 1020+00 | 1025+00 | 1030+00 | 1035+00 | 1040+00 | 1042+00

SHEET NO. 35

PLAN AND PROFILE EASTBOUND

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: B. BOONE 07/2025
REVIEWED BY: J. BRAZILL 05/2026
CHECKED BY: J. SOLIDAY 05/2026

MONTANA Department of Transportation

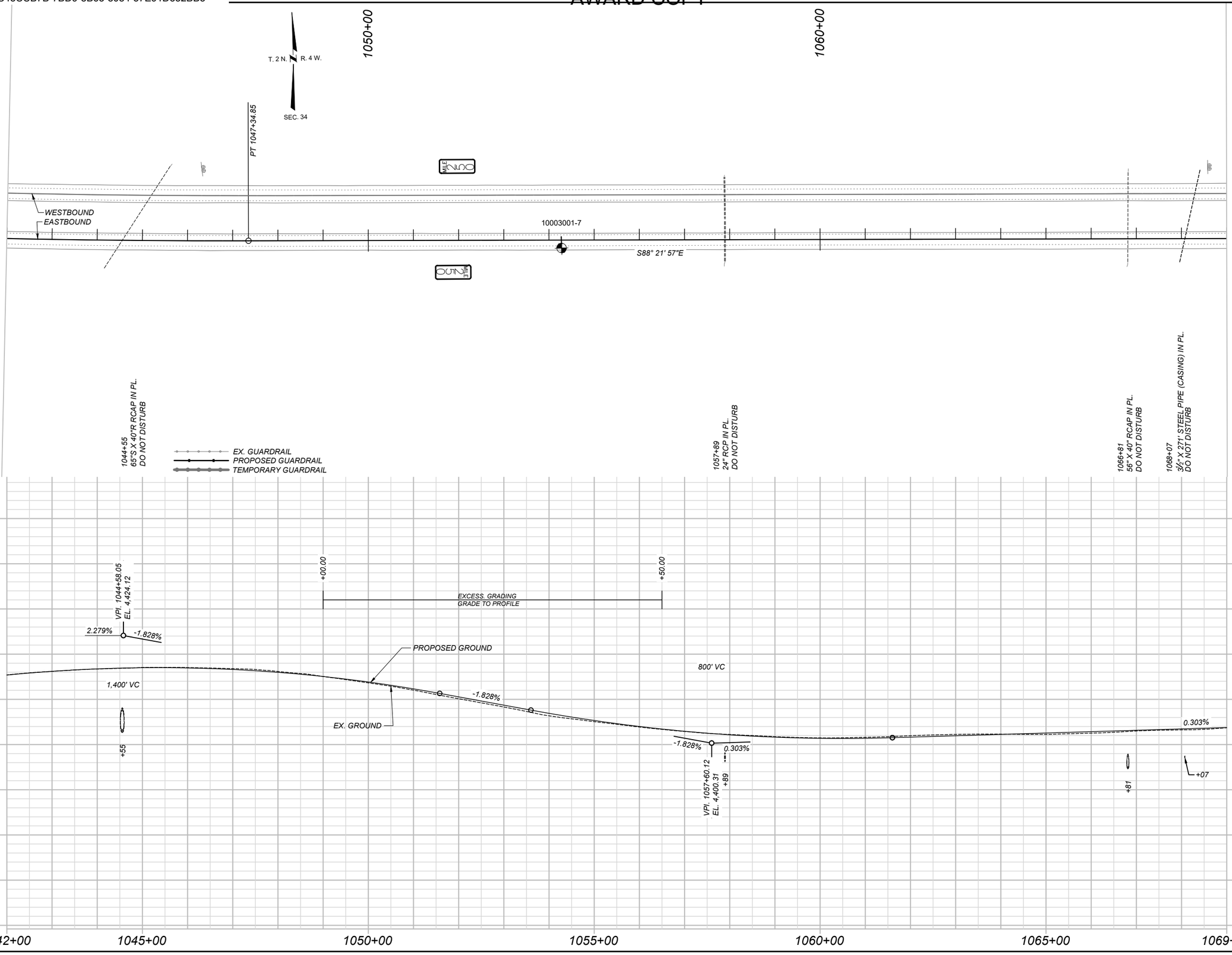
ROAD PLANS

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SHEET NO.
36

PLAN AND PROFILE
EASTBOUND

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

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MONTANA
Department of Transportation

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1070+00 1080+00 1090+00

T. 2 N. R. 4 W.

SEC. 35

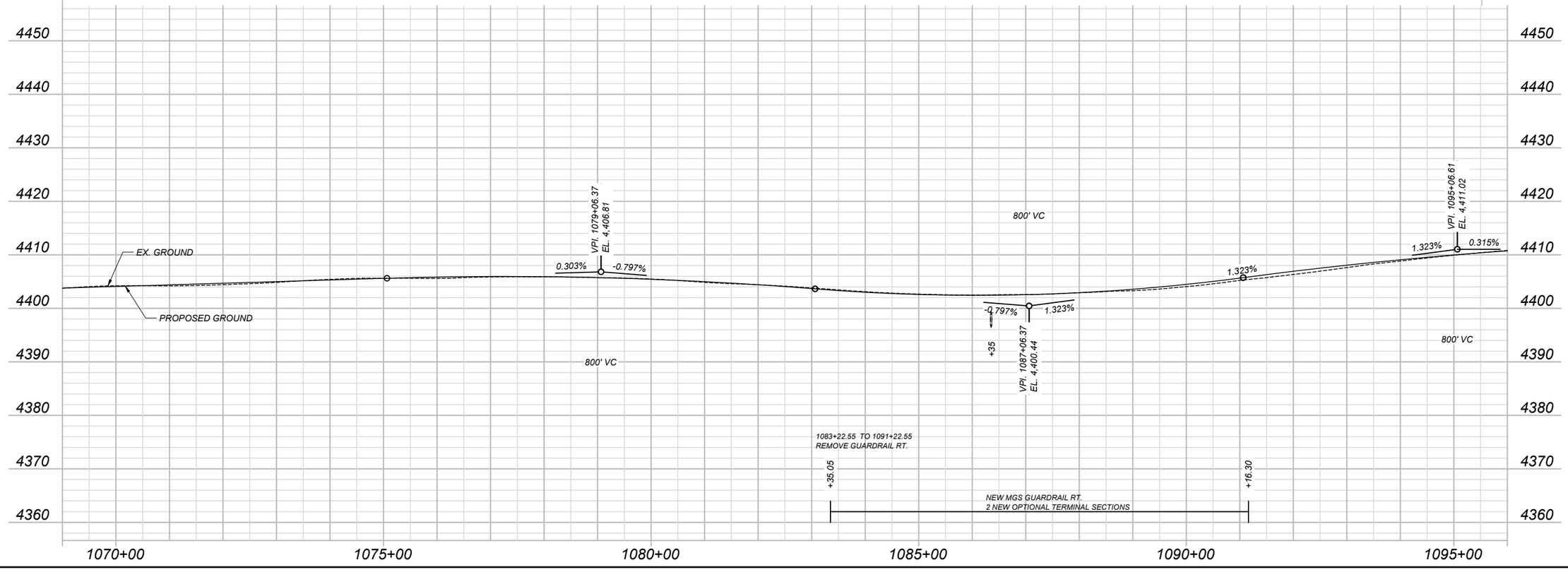
10003001-5

WESTBOUND
EASTBOUND

S88° 21' 57"E

1086+35
30" RCP IN PL.
DO NOT DISTURB

EX. GUARDRAIL
PROPOSED GUARDRAIL
TEMPORARY GUARDRAIL



SHEET NO. 37

PLAN AND PROFILE EASTBOUND

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

MONTANA Department of Transportation

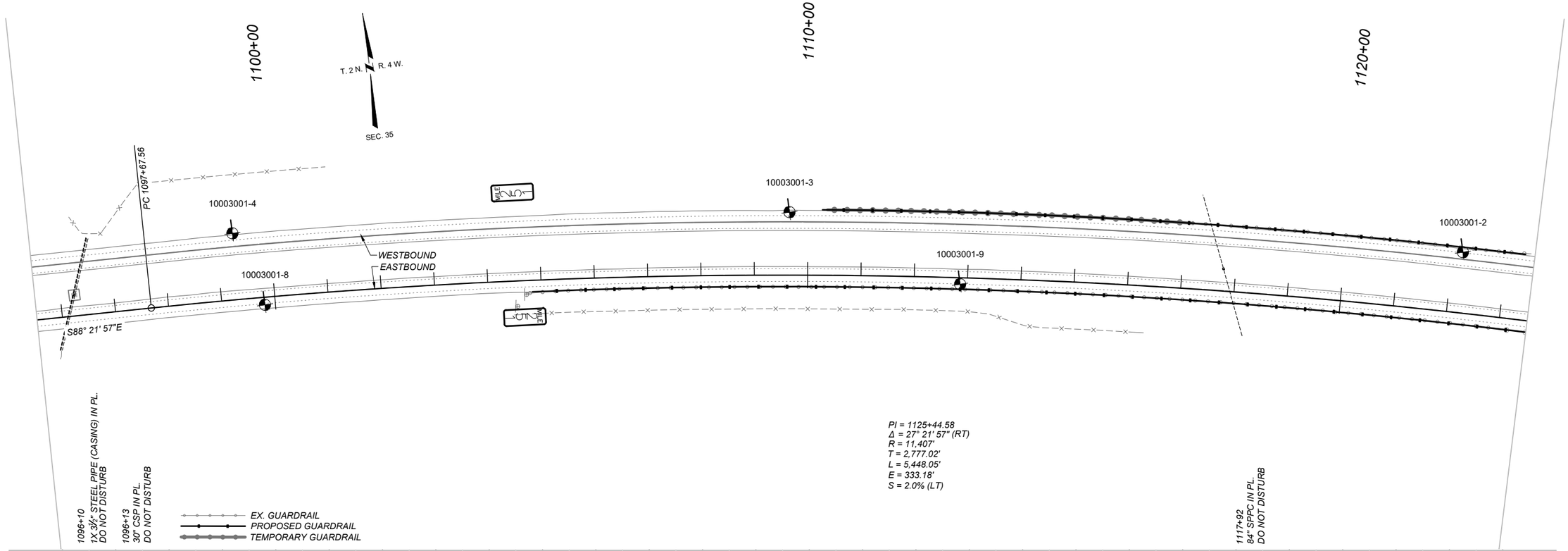
ROAD PLANS

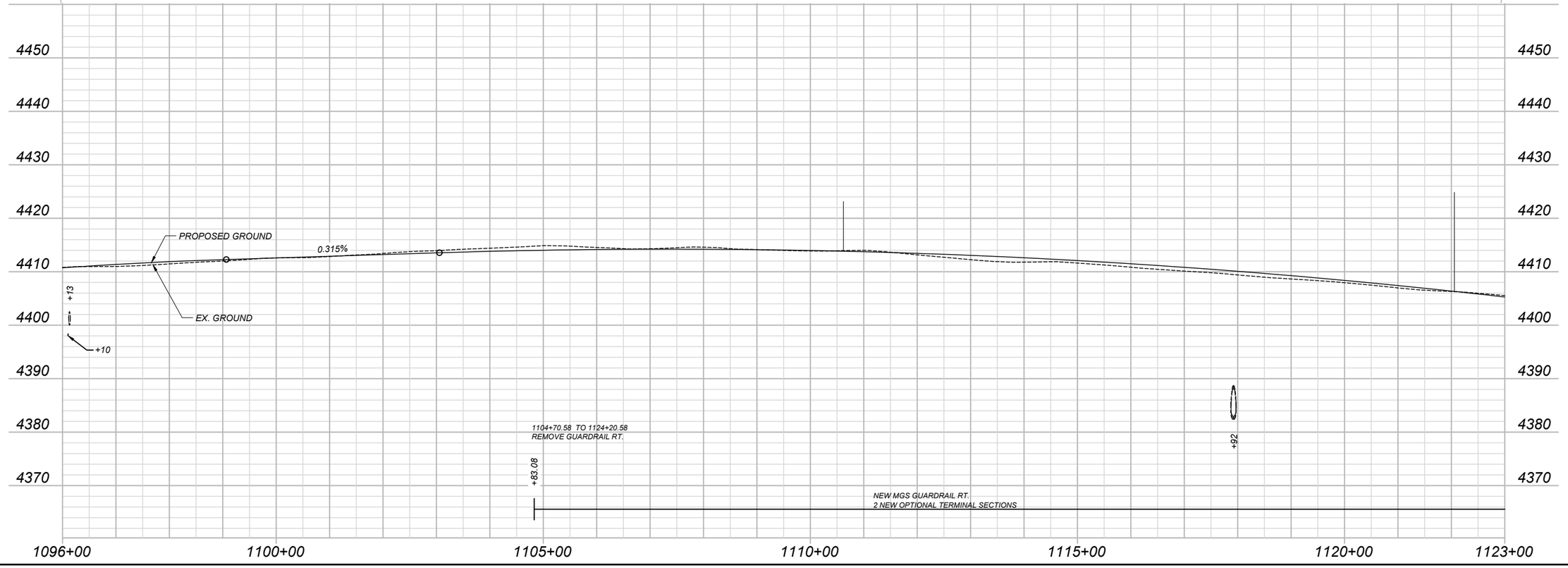
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SHEET NO. 38

PLAN AND PROFILE EASTBOUND

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

10003001RDPLP002.DWG

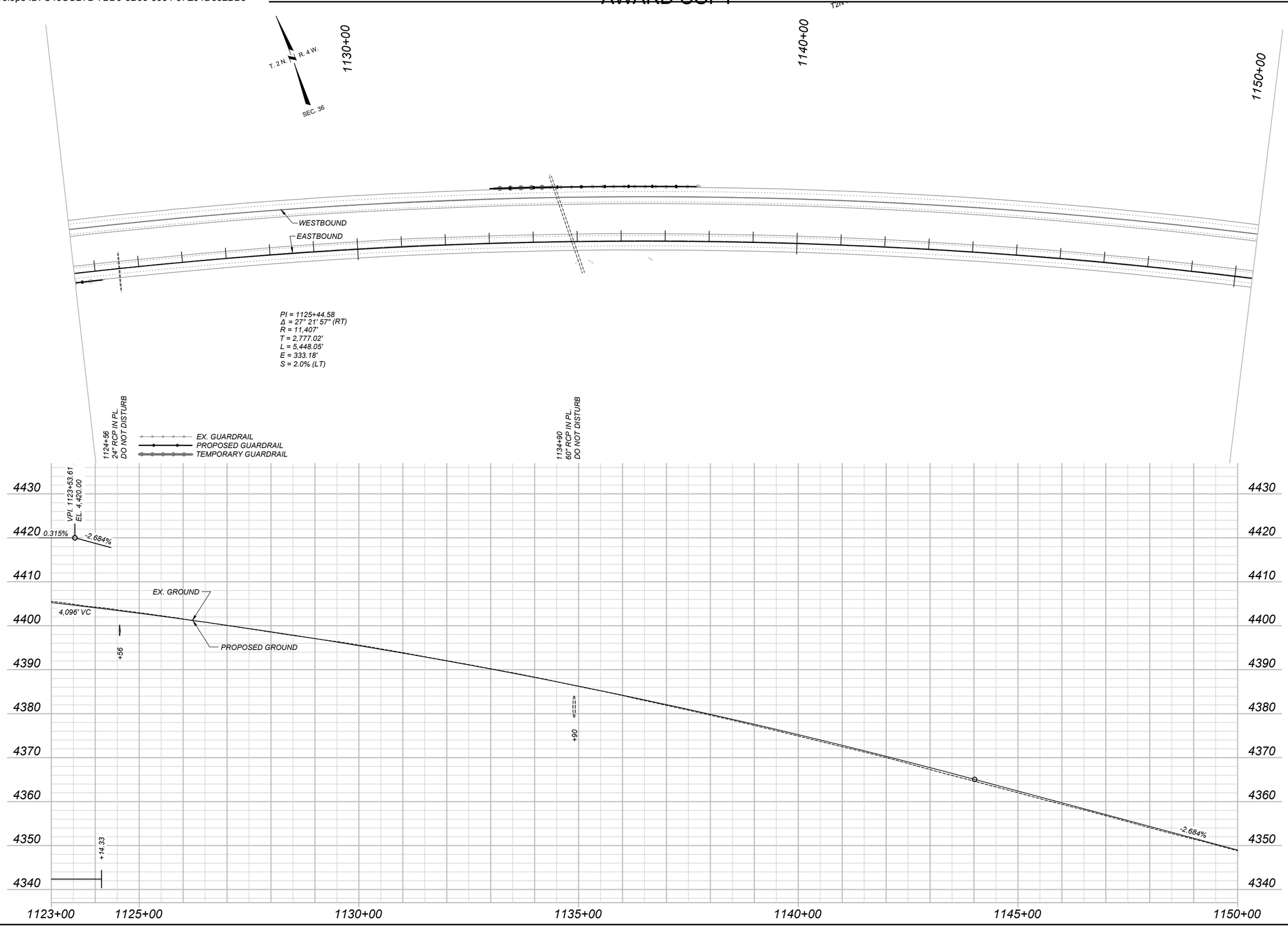
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SHEET NO. 39

PLAN AND PROFILE EASTBOUND

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY		REVIEWED BY		CHECKED BY	
B. BOONE	07/2025	J. BRAZILL	05/2026	J. SOLIDAY	05/2026

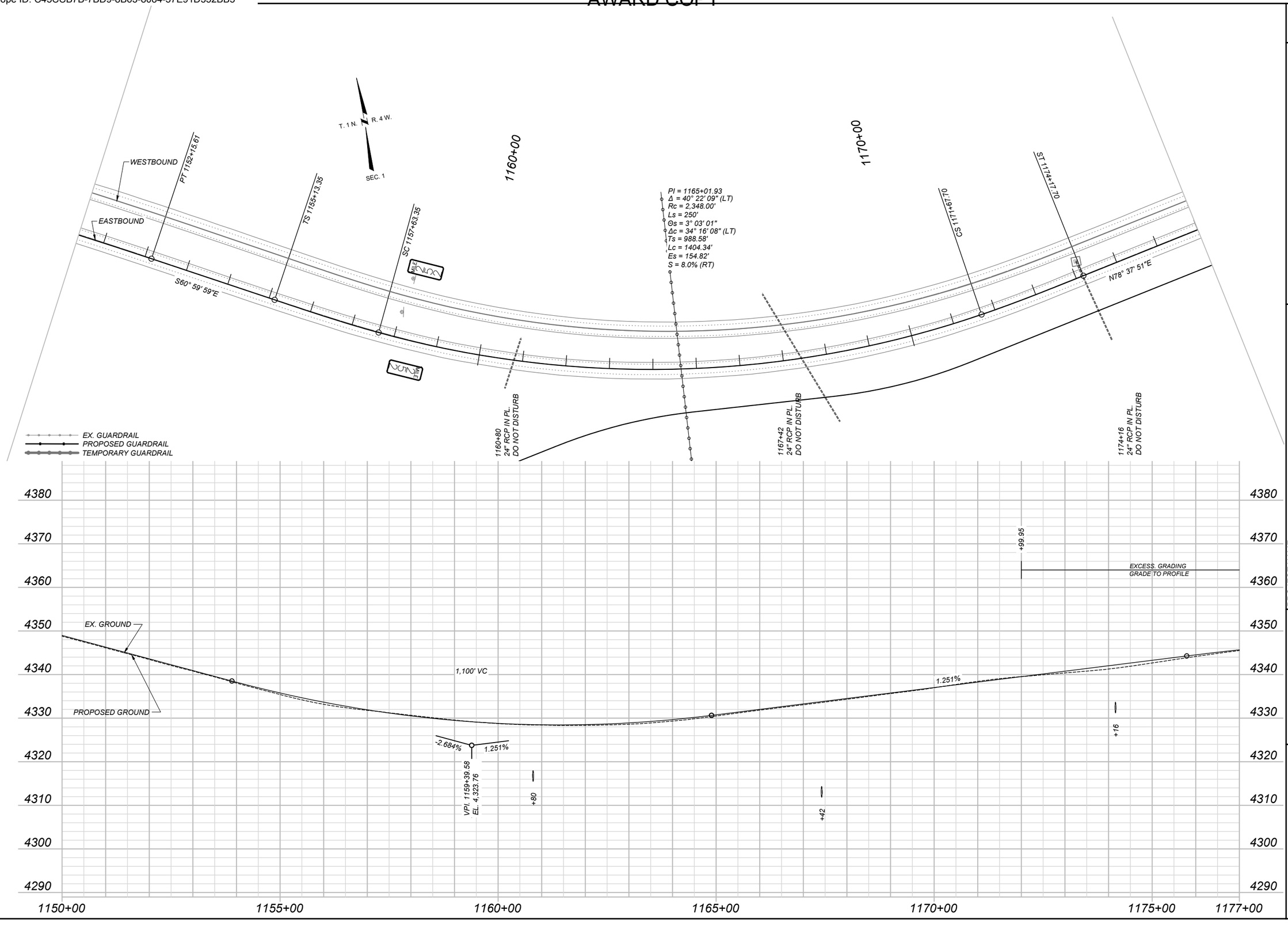
MONTANA
Department of Transportation

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SHEET NO.
40

PLAN AND PROFILE
EASTBOUND

PROJECT NAME	WHITEHALL - EAST
COUNTY	JEFFERSON
PROJECT ID	IM 90-5(101)249
UPN	10003001

DESIGNED BY	07/2025	REVIEWED BY	05/2026	CHECKED BY	05/2026
B. BOONE		J. BRAZILL		J. SOLIDAY	10003001RDPLP002.DWG

MONTANA
Department of Transportation

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1180+00 1190+00 1200+00

WESTBOUND

EASTBOUND

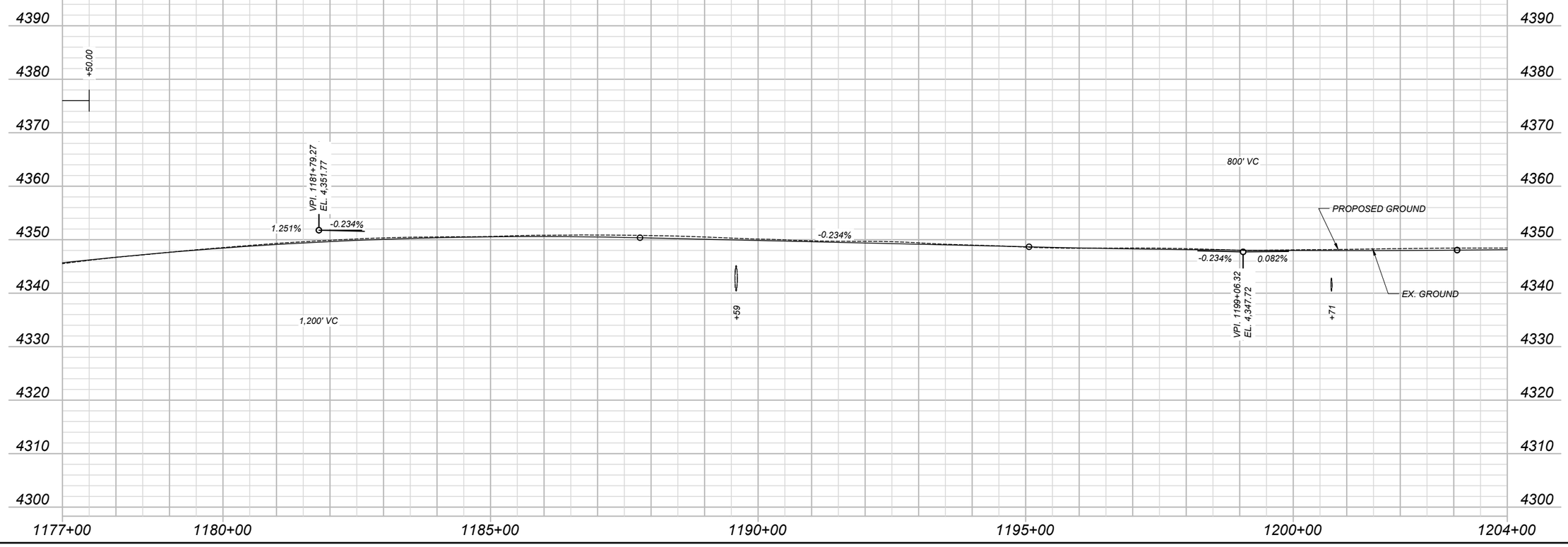
N78° 37' 51"E

T. 1 N. R. 3 W.
SEC. 6

EX. GUARDRAIL
PROPOSED GUARDRAIL
TEMPORARY GUARDRAIL

1189+59
48" RCP IN PL
DO NOT DISTURB

1200+71
24" RCP IN PL
DO NOT DISTURB



SHEET NO. 41

PLAN AND PROFILE EASTBOUND

PROJECT NAME	WHITEHALL - EAST
COUNTY	JEFFERSON
PROJECT ID	IM 90-5(101)249
UPN	10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

MONTANA Department of Transportation

ROAD PLANS

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PLAN AND PROFILE EASTBOUND

1210+00 1220+00 1230+00

T. 2 N. R. 3 W.
SEC. 31

PI 1226+74.95

MT HIGHWAY 2

WESTBOUND
EASTBOUND

10003001-1
10003001-10
10003001-11

N78° 37' 51"E

1224+84.75 BE (EB) END IM 90-5(101)249

EX. GUARDRAIL
PROPOSED GUARDRAIL
TEMPORARY GUARDRAIL

1208+21
54" RCP IN PL.
DO NOT DISTURB

1216+71
24" RCP IN PL.
DO NOT DISTURB

1223+49
60" SSPPC IN PL.
DO NOT DISTURB

1220+62.90 TO 1225+00.40 BE
REMOVE GUARDRAIL LT.

+53.53

+00.40 BE

NEW MGS GUARDRAIL LT.
NEW OPTIONAL TERMINAL SECTION
NEW MGS TO METAL TRANSITION
NEW TYPE 3 BRIDGE APPROACH SECTION

+68.54

+00.00

EXCESS. GRADING
GRADE TO PROFILE

VPI. 1224+84.75
EL. 4,349.835

B.E. 1227+00.52
EL. 4,350.03

PROPOSED GROUND

0.082%

EX. GROUND

+21

+71

+49

1215+12.84 TO 1224+62.84 BE
REMOVE GUARDRAIL RT.

+03.47

+62.84 BE

NEW MGS GUARDRAIL RT.
NEW OPTIONAL TERMINAL SECTION
NEW MGS TO METAL TRANSITION
NEW TYPE 3 BRIDGE APPROACH SECTION

4390 4380 4370 4360 4350 4340 4330 4320 4310 4300

1203+50 1205+00 1210+00 1215+00 1220+00 1225+00 1230+00

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	B. BOONE	07/2025
REVIEWED BY	J. BRAZILL	05/2026
CHECKED BY	J. SOLIDAY	05/2026

10003001RDPLP002.DWG

MONTANA
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NOTES AND ABBREVIATIONS:

WOOD POLE LINEAR FOOT MEASUREMENTS ARE FOR INFORMATIONAL PURPOSES ONLY. WOOD POLE QUANTITIES ARE PAID FOR BY EACH.

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

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 AND PAVEMENT MARKING LOCATIONS ARE APPROXIMATE. 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, PROJECT MANAGER WILL CONTACT TRAFFIC & SAFETY BUREAU SIGNING SECTION WITH THE CORRECT NAME AND A NEW SIGN DESIGN WILL BE PROVIDED.

RSFO = REPLACE SIGN FACE ONLY

FY = FLUORESCENT YELLOW SHEETING REQUIRED

FYG = FLUORESCENT YELLOW-GREEN SHEETING REQUIRED

1 AIR = 1 OR 2 ANGLE IRONS REQUIRED
2 AIR = 2 1/2" x 2 1/2" x 3/8" x 6'-4" (37 lbs.EACH)
IF Y POST DOES NOT REACH TOP 6" OF PANEL, 2 ANGLE IRONS REQUIRED.

BBR = BACKBRACING REQUIRED:
- FOR WOOD POLE SEE DET. DWG 619-22
- FOR STEEL POST 2" X 2" X 1/4" REQUIRED. SEE DET. DWG 619-16
- FOR STRUCTURAL STEEL POST 2 3/4" X 2 3/8" EXTRUDED "T" SECTION BACKBRACE REQUIRED. SEE DET. DWG 619-19
- FOR CANTILEVER POST, SEE DET. DWG 619-18
- FOR GUIDE SIGN PANELS, USE EXTRUDED "T" SECTION BACKBRACE. SEE DET. DWG 619-04

USE HARDWARE MEETING REQUIREMENTS OF SECTION 704

MBB = MOUNT BACK TO BACK

CAM = CHEVRON ANGLE MOUNT (SEE DET. DWG 619-24)

CBR = CONCRETE BARRIER RAIL

× = 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.

★ = TELESCOPED SQUARE TUBES (2-1/4" & 2-1/2") WITH SLIP BASE BREAKAWAY REQUIRED. MOUNTED IN HEAVY DUTY STUB.

▮ = FRANGIBLE SIGN POST. BREAKAWAY DEVICE REQUIRED.

BGR = BEHIND GUARDRAIL

SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET XI	634.4	SQFT
SIGNS-ALUM SHEET INCR XI	953.3	SQFT
REMOVE SIGN	37	EACH
REMOVE SIGN-GUIDE	5	EACH
POSTS-TUBULAR STEEL	886	LB
POSTS-STEEL U SIGN	451	LB
POSTS-STEEL STRUCTURAL SIGN	942	LB
POLES-TREATED WOOD 4 IN	11	EACH
POLES-TREATED WOOD 5 IN	9	EACH
FRANG SIGN POST BKWY-S4 X 7.7 (S100X11)	2	EACH
FRANG SIGN POST BKWY-S5 X 10 (S130X15)	2	EACH
FRANG SIGN POST BKWY-3.5 IN RD (89MM)	1	EACH
FRANG SIGN POST BKWY-4 IN RD (100 MM)	4	EACH
DELINEATOR TYPE 1	435	EACH

DELINEATION SPECIFICATIONS		
SYMBOL	DESIGN	TOTAL
⊣	A	176
⊣|	B	12
|⊣|	D	4
⊣<	G	40
⊣>	H	154
×⊣|	BJ	30
×⊣<	GJ	19

SHEET NO.
S1

SIGNING NOTES AND SUMMARY FRAMES

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: S. WATSON 04/2026
REVIEWED BY:
CHECKED BY: N. STYREN 04/2026

MONTANA Department of Transportation

SIGNING PLANS

7/7/2026 10:22 AM

10003001SISUM001.DWG

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SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
								FEET		FEET								PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)					REMOVE		RESET			
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES) W X H	FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X Y Z	CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	# OF BREAKAWAYS	SIGN	GUIDE	SIGN	GUIDE	SIGN IMAGE	REMARKS
I-90 Eastbound																															
982+16.00	R	RSFO	E-249	132 X 30		2 AIR												27.5					74							EXIT 249	AIR (2 1/2" X 2 1/2" X 3/8" X 6'4")
			G4-14	156 X 144														156.0												TO 55 69 Whitehall	
989+77.00	R	RSFO	EG-249	96 X 60														40.0												EXIT 249	
993+12.00	R	RSFO	W8-13	48 X 48		BBR											16.0													BRIDGE ICES BEFORE ROAD	HINGED-REPLACES "WATCH FOR ICE ON BRIDGE"
998+24.00	R	REPLACE	D10-6	12 X 48				2.0	3.0lb Steel U Post		4.0	3.0	11.6			BGR	4.0						35		1					MILE 249	
1011+26.00	R	REMOVE SIGN	W11-3																							1					
			W7-3aP																											NEXT 8 MILES	
1022+13.00	R	REPLACE	M3-2P	36 X 18				5.0	5" Treated Wood Pole		7.0	3.5	16.7			BGR	4.5			18					1					EAST	
			M1-1	36 X 36													7.2													INTERSTATE 90	
1026+52.00	M	REPLACE	R5-11 (2x)	30 X 24			MBB	30.0	5" Treated Wood Pole		7.0	3.5	15.2		X		10.0			16					1					AUTHORIZED VEHICLES ONLY	
1032+27.00	R	RSFO	R2-1	48 X 60													20.0													SPEED LIMIT 80	
			R2-2P	48 X 36													12.0													TRUCKS 70	
1042+25.00	R	RSFO	G11-295	126 X 60														52.5												Cardwell 7 Bozeman 56 Billings 198	

SHEET NO.
S2

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: S. WATSON 04/2026
REVIEWED BY:
CHECKED BY: N. STYREN 04/2026

MONTANA Department of Transportation

SIGNING PLANS

10003001SISUM001.DWG

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AWARD COPY

SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
								FEET		FEET								PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)					REMOVE		RESET			
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES) W X H	FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z	CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	# OF BREAKAWAYS	SIGN	GUIDE	SIGN	GUIDE	SIGN IMAGE	REMARKS
1051+93.00	R	REPLACE	D10-6	12 X 48				4.0	3.0lb Steel U Post		4.0	3.0	11.8						4.0							36		1				
1104+68.00	R	REPLACE	D10-6	12 X 48				4.0	3.0lb Steel U Post		4.0	3.0	11.8						4.0							36		1				
1104+69.00	R	REPLACE	N7-1 MT	36 X 48				20.0	5" Treated Wood Pole		7.0	3.5	18.2				X		12.0			20						1				
1158+46.00	R	REPLACE	D10-6	12 X 48				4.0	3.0lb Steel U Post		4.0	3.0	11.8						4.0							36		1				
1210+26.00	R	REPLACE	D10-6	12 X 48				4.0	3.0lb Steel U Post		4.0	3.0	11.8						4.0							36		1				
1218+97.00	R	RSFO	W8-13	48 X 48		BBR													16.0													HINGED-REPLACES "WATCH FOR ICE ON BRIDGE"
1227+69.00	R	NEW	W11-20	36 X 36				20.0	5" Treated Wood Pole		7.0	3.5	18.3				X		9.0			20										
1403+91.00	R	NEW	W11-21	48 X 48					**		8.1								16.0													**SEE ELECTRICAL PLANS
			W7-3aP	30 X 24															5.0													
I-90 Eastbound Off Ramp (Ramp "D")																																
D1	R	RSFO	W3-1	48 X 48		BBR													16.0													
D2	R	REPLACE	R5-1a	42 X 30				10.0	4" Treated Wood Pole		4.0	3.0	11.4						8.8		12							1				
D3	L	REPLACE	R5-1a	42 X 30				10.0	4" Treated Wood Pole		4.0	3.0	11.4						8.8		12							1				
D4	R	RSFO	G10-125	120 X 66																55.0												RSFO
			D9-1																													REMOVE
			M6-1PR																													REMOVE
D5	R	REPLACE	LA-2 MT	24 X 12				4.0	2.0lb Steel U Post		4.0	3.0	8.8						2.0							18		1				

SHEET NO.
S3

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: S. WATSON 04/2026
REVIEWED BY:
CHECKED BY: N. STYREN 04/2026

MONTANA Department of Transportation

SIGNING PLANS

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SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS											SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
								FEET											PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)					REMOVE		RESET			
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES) W X H	FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z	CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	# OF BREAKAWAYS	SIGN	GUIDE	SIGN	GUIDE	SIGN IMAGE	REMARKS
D6	R	REPLACE	R1-1	48 X 48		BBR		10.0	5" Treated Wood Pole		7.0	3.5	14.6				X		13.3			16					1				STOP	
D7	R	REPLACE	R6-1R	48 X 18		BBR		10.0	4.0" Tubular Stl-Round		7.0	3.0	14.6				■		6.0				158			1	1				ONE WAY	MOUNT ONE WAY SIGNS BACK TO BACK
|			R6-1L	48 X 18		BBR													6.0												ONE WAY	
|			R5-1	48 X 48		BBR													16.0												DO NOT ENTER	
D8	L	REPLACE	R6-1L	48 X 18		BBR		10.0	4.0" Tubular Stl-Round		7.0	3.0	14.6				■		6.0				158			1	1				ONE WAY	MOUNT ONE WAY SIGNS BACK TO BACK
|			R6-1R	48 X 18		BBR													6.0												ONE WAY	
|			R5-1	48 X 48		BBR													16.0												DO NOT ENTER	
I-90 Eastbound On Ramp (Ramp "C")																																
31+14.00	R	REPLACE	LA-1 MT	24 X 12				4.0	2.0lb Steel U Post		4.0	3.0	8.8						2.0						18		1				ENTERING CONTROLLED ACCESS HIGHWAY	
31+15.00	R	REPLACE	D13-3	48 X 30				10.0	4" Treated Wood Pole	2.3	7.0	3.0	14.2	14.6					10.0		32							1			FREEWAY ENTRANCE	
I-90 Westbound																																
98+53.00	R	REPLACE	D10-6	12 X 48				2.0	3.0lb Steel U Post		4.0	3.0	11.6					BGR	4.0						35		1				MILE 249	
105+21.00	R	RSFO	W8-13	48 X 48		BBR													16.0												BRIDGE ICES BEFORE ROAD	HINGED-REPLACES "WATCH FOR ICE ON BRIDGE"
107+15.00	R	REPLACE	EG-249	96 X 60				5.0	S4x7.7 Structural Steel	4.8	7.0	3.5	12.0	12.0			■			40.0				185		2		1				EXIT 249	
115+91.00	R	RSFO	E-249	132 X 30		2 AIR														27.5				74							EXIT 249	AIR (2 1/2" X 2 1/2" X 3/8" X 6'4")
|			G4-14	156 X 144																156.0											TO 55 69 Whitehall	
|			D9-99 MT	30 X 30															6.3												M	

SHEET NO.
S4

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: S. WATSON 04/2026
REVIEWED BY:
CHECKED BY: N. STYREN 04/2026
10003001SISUM001.DWG

MONTANA Department of Transportation

SIGNING PLANS

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AWARD COPY

SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
								FEET		FEET								PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)					REMOVE		RESET			
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES) W X H	FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z	CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	# OF BREAKAWAYS	SIGN	GUIDE	SIGN	GUIDE	SIGN IMAGE	REMARKS
118+23.00	R	RSFO	W20-3	48 X 48		BBR												16.0													HINGED - (500 FT)
118+24.00	M	RSFO	W20-3	48 X 48		BBR												16.0													HINGED - (500 FT)
128+20.00	R	RSFO	W20-3	48 X 48		BBR												16.0													HINGED - (1500 FT)
128+21.00	M	RSFO	W20-3	48 X 48		BBR												16.0													HINGED - (1500 FT)
137+11.00	R	RSFO	G7-110	168 X 90															105.0												
146+47.00	R	USE AS IS	LOGO																												
152+18.00	R	REPLACE	D10-6	12 X 48				4.0	3.0lb Steel U Post		4.0	3.0	11.8						4.0						36		1					
168+73.00	R	RSFO	E-249	132 X 30		2 AIR													27.5					74							RSFO - AIR (2 1/2" X 2 1/2" X 3/8" X 6'4")
			G2-14	150 X 138															143.8												RSFO
			D9-1																												REMOVE
204+81.00	R	REPLACE	D10-6	12 X 48				4.0	3.0lb Steel U Post		4.0	3.0	11.8						4.0						36		1					
204+82.00	R	REPLACE	N7-1 MT	36 X 48				20.0	5" Treated Wood Pole		7.0	3.5	18.2				X		12.0		20						1					
258+59.00	M	REMOVE SIGN	W8-1																								1				
			W7-3aP																												
258+62.00	R	REMOVE SIGN	W8-1																								1				
			W7-3aP																												

SHEET NO.
S5

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: S. WATSON 04/2026
REVIEWED BY:
CHECKED BY: N. STYREN 04/2026

MONTANA Department of Transportation

SIGNING PLANS

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SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS														SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
								FEET			FEET											PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)					REMOVE		RESET			
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES) W X H	FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z	CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	# OF BREAKAWAYS	SIGN	GUIDE	SIGN	GUIDE	SIGN IMAGE	REMARKS
258+96.00	R	REPLACE	D10-6	12 X 48				4.0	3.0lb Steel U Post		4.0	3.0	11.8						4.0						36		1					
310+31.00	R	REPLACE	N7-1 MT	36 X 48				20.0	5" Treated Wood Pole		7.0	3.5	18.2				X		12.0			20					1					
310+32.00	R	REPLACE	D10-6	12 X 48				4.0	3.0lb Steel U Post		4.0	3.0	11.8						4.0						36		1					
336+55.00	R	RSFO	W8-13	48 X 48		BBR													16.0													HINGED-REPLACES "WATCH FOR ICE ON BRIDGE"
442+96.00	R	NEW	W11-20	36 X 36				20.0	5" Treated Wood Pole		7.0	3.5	18.3				X		9.0			20										
535+49.00	R	REMOVE SIGN	W11-3																								1					
			W7-3aP																															
546+45.00	R	NEW	W11-21	48 X 48					**		8.1								16.0													**SEE ELECTRICAL PLANS
			W7-3aP	30 X 24															5.0													
I-90 Westbound On Ramp (Ramp "A")																																		
A1	R	REPLACE	LA-1 MT	24 X 12				4.0	2.0lb Steel U Post		4.0	3.0	8.8						2.0						18		1					
A2	R	REPLACE	D13-3	48 X 30				10.0	4" Treated Wood Pole	2.3	7.0	3.0	14.2	14.6					10.0		32							1					
I-90 Westbound Off Ramp (Ramp "B")																																		
19+99.00	R	REPLACE	R6-1R	48 X 18		BBR		10.0	4.0" Tubular Stl-Round		7.0	3.0	14.6						6.0				158			1	1					MOUNT ONE WAY SIGNS BACK TO BACK
			R6-1L	48 X 18		BBR													6.0													
			R5-1	48 X 48		BBR													16.0													
























SHEET NO.
S6

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: S. WATSON 04/2026
REVIEWED BY:
CHECKED BY: N. STYREN 04/2026

MONTANA Department of Transportation

SIGNING PLANS

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SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
								FEET										PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)					REMOVE		RESET			
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES) W X H	FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z	CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	# OF BREAKAWAYS	SIGN	GUIDE	SIGN	GUIDE	SIGN IMAGE	REMARKS
20+26.00	R	REPLACE	R1-1	48 X 48		BBR		10.0	5" Treated Wood Pole		7.0	3.5	14.6				X		13.3			16					1				STOP	
20+28.00	L	REPLACE	R6-1L	48 X 18		BBR		10.0	4.0" Tubular Stl-Round		7.0	3.0	14.6				■		6.0				158			1	1				ONE WAY	MOUNT ONE WAY SIGNS BACK TO BACK
			R6-1R	48 X 18		BBR													6.0												ONE WAY	
			R5-1	48 X 48		BBR													16.0												DO NOT ENTER	
21+17.00	R	REPLACE	LA-2 MT	24 X 12				4.0	2.0lb Steel U Post		4.0	3.0	8.8						2.0						18		1				LEAVING CONTROLLED ACCESS HIGHWAY	
23+55.00	R	NEW	R5-1a	42 X 30				10.0	4" Treated Wood Pole S5x10 Structural Steel		4.0	3.0	11.4				■		8.8		12										WRONG WAY	
23+58.00	R	NEW	G10-126	102 X 60				10.0		5.2	7.0	3.5	14.9	16.2						42.5				311		2				Whitehall Dillon Virginia City	
23+62.00	R	REMOVE SIGN	D9-1																								1					
23+63.00	L	REPLACE	R5-1a	42 X 30				10.0	4" Treated Wood Pole		4.0	3.0	11.4						8.8		12						1				WRONG WAY	
24+00.00	L	USE AS IS	LOGO																												FOOD ← 1/4 MI	
27+11.00	R	RSFO	W3-1	48 X 48															16.0													
Whitehall Interchange Crossroad - North to South																																	
CR1	L	REPLACE	M3-1P	24 X 12				10.0	4" Treated Wood Pole		5.0	3.0	12.9						2.0		14						1				NORTH	
			M1-12 MT	24 X 24															4.0												399	
CR2	R	USE AS IS	R3-2																													

SHEET NO. S7

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	REVIEWED BY	CHECKED BY
S. WATSON 04/2026		N. STYREN 04/2026

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MONTANA Department of Transportation

SIGNING PLANS

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SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
								FEET		FEET								PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)					REMOVE		RESET			
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES) W X H	FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z	CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	# OF BREAKAWAYS	SIGN	GUIDE	SIGN	GUIDE	SIGN IMAGE	REMARKS
CR3	R	RSFO	M4-5P	24 X 12		BBR												2.0												TO	RSFO
			M3-3P	24 X 12		BBR												2.0												SOUTH	RSFO
			M1-5																											MONTANA 69	USE AS IS
			M1-5																											MONTANA 55	USE AS IS
			M6-1PL	21 X 15		BBR												2.2													RSFO
			M6-1PL	21 X 15		BBR												2.2													RSFO
CR4	L	REPLACE	W8-3	36 X 36				10.0	3.5" Tubular Stl-Round		8.1	3.0	15.8				■	9.0				144				1	1			PAVEMENT ENDS	
			W7-3aP MT01	30 X 24														5.0												10 MILES AHEAD	
CR5	R	RSFO	M3-2P	24 X 12		BBR												2.0												EAST	
			M3-4P	24 X 12		BBR												2.0												WEST	
			M1-1	24 X 24		BBR												3.2												INTERSTATE 90	
			M1-1	24 X 24		BBR												3.2												INTERSTATE 90	
			M6-3P	21 X 15		BBR												2.2													
			M6-1PR	21 X 15		BBR												2.2													
			M3-4P	24 X 12		BBR												2.0												WEST	
			M1-1	24 X 24		BBR												3.2												INTERSTATE 90	
			M6-1PL	21 X 15		BBR												2.2													

SHEET NO.
S8

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: S. WATSON 04/2026
REVIEWED BY:
CHECKED BY: N. STYREN 04/2026

MONTANA Department of Transportation

SIGNING PLANS

7/7/2026 10:22 AM

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Docusign Envelope ID: C45CCB7B-7BD9-8B63-8084-57E91D352BB5

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SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS											SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION	
								FEET		FEET									PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)					REMOVE		RESET			
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES) W X H	FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	SUPPORT LENGTH (ESTIMATED) Y	SUPPORT LENGTH (ESTIMATED) Z	CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	# OF BREAKAWAYS	SIGN	GUIDE	SIGN	GUIDE	SIGN IMAGE	REMARKS
CR6	L	USE AS IS	R3-1																												
CR7	R	REPLACE	G399-0a	96 X 42				5.0	S4x7.7 Structural Steel	4.8	7.0	3.5	11.6	11.5			X	BGR		28.0					224				1			Whitehall / Billings	
CR8	OH	RSFO	OHW12-4 MT	120 X 24																20.0											14 FT 0 IN	
CR9	OH	RSFO	OHW12-4 MT	120 X 24																20.0											14 FT 0 IN	
CR10	L	REPLACE	G55-13a	72 X 24				5.0	4" Treated Wood Pole	3.7	7.0	3.0	13.0	12.4				BGR		12.0	28								1			Butte	
CR11	R	USE AS IS	R3-1																												
CR12	L	REPLACE	M3-2P	24 X 12		BBR		5.0	3.0" Tubular Stl-Round		5.0	3.0	10.8				X	BGR	2.0				110					1				EAST
			M1-1	24 X 24		BBR													3.2													90
			M6-1PL	21 X 15		BBR													2.2													
			M3-4P	24 X 12		BBR													2.0													WEST
			M3-2P	24 X 12		BBR													2.0													EAST
			M1-1	24 X 24		BBR													3.2													90
			M1-1	24 X 24		BBR													3.2													90
			M6-3P	21 X 15		BBR													2.2													
			M6-1PR	21 X 15		BBR													2.2													
CR13	L	REPLACE	D10-2 (2x)	10 X 27			MBB	4.0	2.0lb Steel U Post		4.0	3.0	10.4						3.8						21			1				MILE 13
																		PROJECT TOTALS	634.4	953.3	154	166	886		942	451	9	37	5			

SHEET NO. S9

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: S. WATSON 04/2026
REVIEWED BY:
CHECKED BY: N. STYREN 04/2026

MONTANA Department of Transportation

SIGNING PLANS

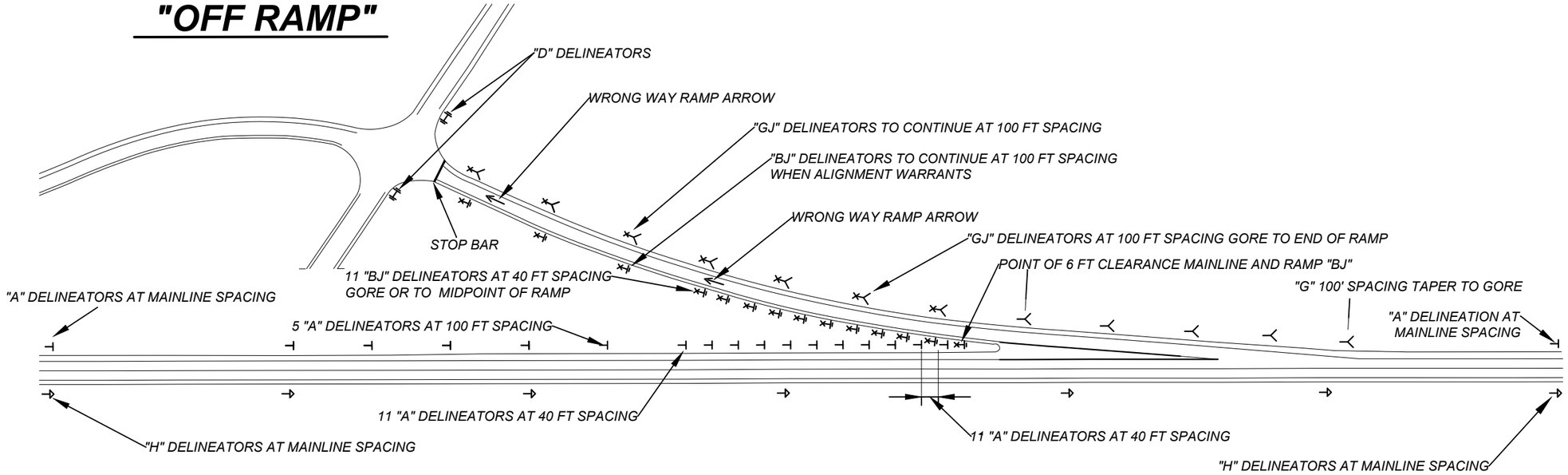
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7/7/2026 10:22 AM

Docusign Envelope ID: C45CCB7B-7BD9-8B63-8084-57E91D352BB5

RAMP DELINEATION DETAIL

"OFF RAMP"

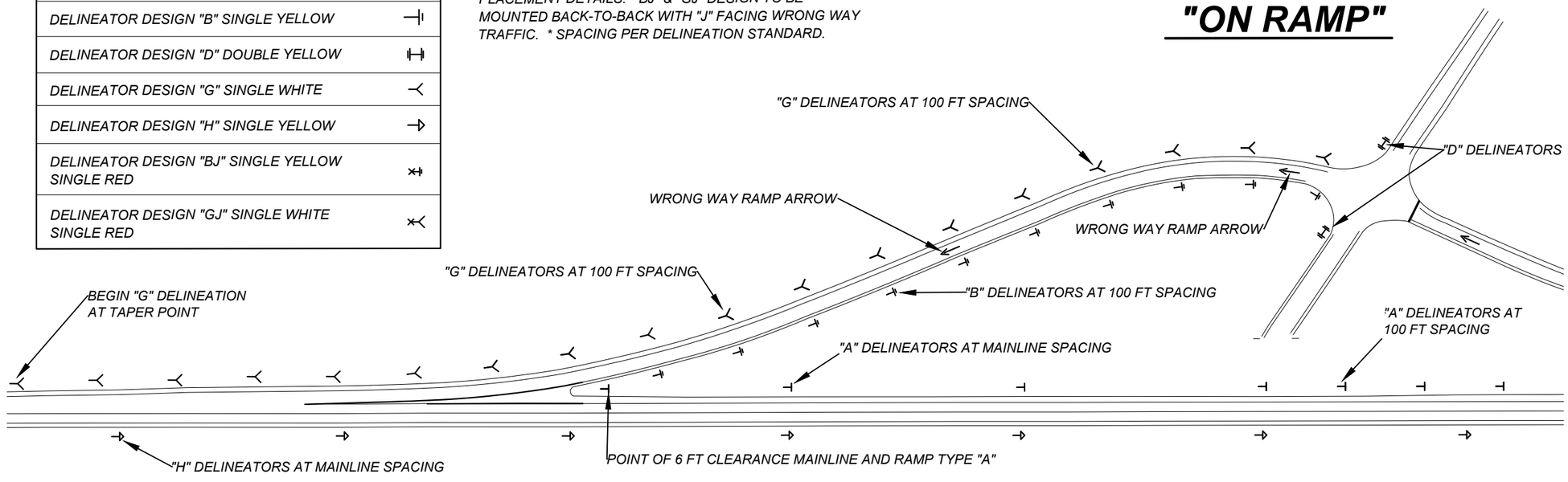


LEGEND

DELINEATOR DESIGN "A" SINGLE WHITE	⊣
DELINEATOR DESIGN "B" SINGLE YELLOW	⊣
DELINEATOR DESIGN "D" DOUBLE YELLOW	⊣⊣
DELINEATOR DESIGN "G" SINGLE WHITE	≺
DELINEATOR DESIGN "H" SINGLE YELLOW	→
DELINEATOR DESIGN "BJ" SINGLE YELLOW SINGLE RED	⊣
DELINEATOR DESIGN "GJ" SINGLE WHITE SINGLE RED	≺

NOTE: ALL DELINEATORS AT 6 FT CLEARANCE FROM EDGE OF PAVEMENT. SEE DETAILED DRAWING 619-34 FOR DELINEATOR DETAILS & 619-36 FOR DELINEATOR PLACEMENT DETAILS. "BJ" & "GJ" DESIGN TO BE MOUNTED BACK-TO-BACK WITH "J" FACING WRONG WAY TRAFFIC. * SPACING PER DELINEATION STANDARD.

"ON RAMP"



SHEET NO. S10

DETAIL

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: S. WATSON 04/2026
REVIEWED BY:
CHECKED BY: N. STYREN 04/2026

MONTANA Department of Transportation

SIGNING PLANS

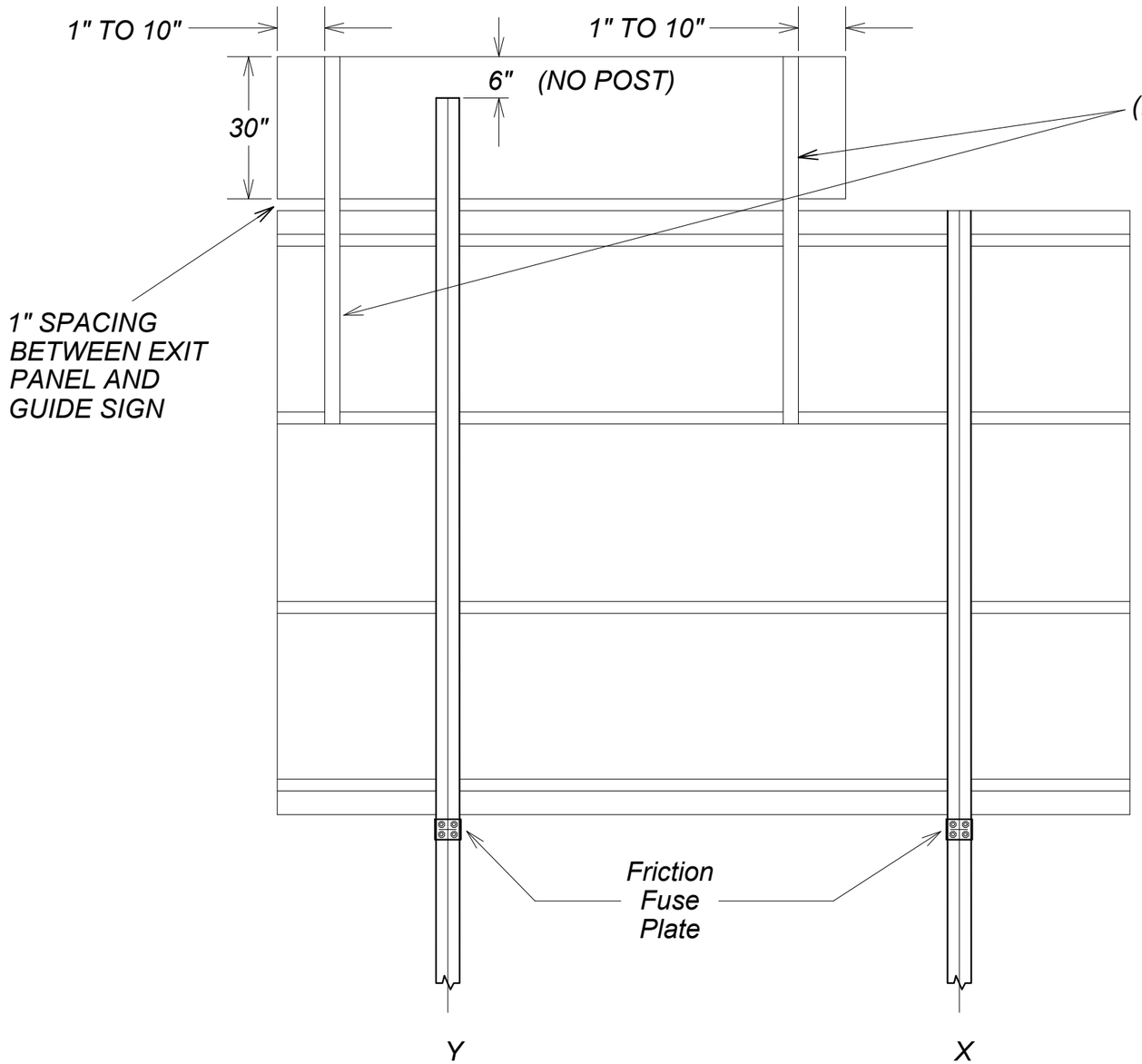
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GUIDE SIGN WITH EXIT PANEL ANGLE IRON DETAIL - RSFO REPLACING 24" WITH 30" EXIT PANEL

NO SCALE



BACK VIEW OF ADVANCE GUIDE SIGN WITH EXIT NUMBER PANEL SIGN SHOWING INSTALLATION OF ANGLE IRON

NOTE: WHEN EXIT PANEL IS SUPPORTED BY A SINGLE POST, 2 ANGLE IRONS ARE REQUIRED. SIGN WILL EXTEND 6 INCHES ABOVE SUPPORTS

SHEET NO.
S11

DETAIL

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY: S. WATSON 04/2026
REVIEWED BY:
CHECKED BY: N. STYREN 04/2026

MONTANA Department of Transportation

SIGNING PLANS

7/7/2026 10:22 AM

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Docusign Envelope ID: C45CCB7B-7BD9-8B63-8084-57E91D352BB5

AWARD COPY

NOTES:
1 - DETAILED VIEW OF CROSSROAD SIGNING ON S17
2 - CUSTOM STATIONING ON RAMP "A", RAMP "D" AND WHITEHALL INTERCHANGE CROSSROAD ARE FOR SIGNING PLANS REFERENCE ONLY

BEGIN PAVEMENT MARKINGS AT BREAK IN PAVEMENT

BEGIN PAVEMENT MARKINGS AT BREAK IN PAVEMENT

I-90 WB

I-90 EB

RAMP "A"

RAMP "B"

RAMP "C"

RAMP "D"

WHITEHALL INTERCHANGE

WHITEHALL INTERCHANGE

WHITEHALL RD

BOA 19+68.02

PC 20+42.75

PT 22+99.70

PC 25+71.33

PT 28+77.04

PC 31+03.52

BOA 29+68.95

PT 35+51.97

PI 38+02.43

4"SHOULDER LINES ON RAMPS

80+00 90+00 100+00 30+00 980+00 990+00 1000+00 30+00 29+69

EXIT 249 TO 69 55 Whitehall

Ref Stationing:382+16.00 Assembly Status:Existing (RSFO) Sign Name:G4-14

Ref Stationing:399+77.00 Assembly Status:Existing (RSFO) Sign Name:E5-249

Ref Stationing:D1 (RSFO) Assembly Status:Existing Sign Name:W8-1

Ref Stationing:959+12.00 Assembly Status:Existing (RSFO) Sign Name:W8-13

Sign Name:D4-1 (Remove) Sign Name:M6-1PR (BLU) (Remove)

Ref Stationing:D4 Assembly Status:Existing (RSFO) Sign Name:G10-12S

Ref Stationing:27+1.00 Assembly Status:Existing (RSFO) Sign Name:W3-1

Ref Stationing:107+15.00 Assembly Status:Replace Sign Name:E5-249

Ref Stationing:23+82.00 Assembly Status:Remove Sign Name:D9-1

Ref Stationing:23+48.00 Assembly Status:Proposed Sign Name:G16-12S

Ref Stationing:24+00.00 Assembly Status:Existing (USE AS IS) Sign Name:LOGO-2

Ref Stationing:105+21.00 Assembly Status:Existing (RSFO) Sign Name:W8-13

Dillon Virginia City EXIT 249

Sign Name:D9-1 (Remove)

Ref Stationing:D4 Assembly Status:Existing (RSFO) Sign Name:G10-12S

Sign Name:M6-1PR (BLU) (Remove)

Ref Stationing:D1 (RSFO) Assembly Status:Existing Sign Name:W8-1

Ref Stationing:399+77.00 Assembly Status:Existing (RSFO) Sign Name:E5-249

Ref Stationing:382+16.00 Assembly Status:Existing (RSFO) Sign Name:G4-14

Sign Name:E5-249

Sign Name:G4-14

Sign Name:D9-99

Ref Stationing:114+91.00 Assembly Status:Existing (RSFO)

EXIT 249 TO 69 55 Whitehall

EOA 34+89.78

28+77.04

8" WHITE DIVIDER LINE ON RAMP SIDE

12" WHITE DIVIDER LINE MAINLINE SIDE

6" YELLOW SHOULDER

4"WHITE CENTER SKIP LINES

EOA 46+85.68

PI 38+02.43

30+00 110+00 34+90 46+86 120+00 130+00 1010+00 1020+00 1030+00

Ref Stationing:116+24.00 Assembly Status:Existing (RSFO) Sign Name:CW26-3 (500 FT)

Ref Stationing:118+23.00 Assembly Status:Existing (RSFO) Sign Name:CW20-3 (500 FT)

300', 400' DELINEATOR SPACING

L=6675
R=22878

L=6674
R=22711

6" WHITE SHOULDER

Ref Stationing:239+21.00 Assembly Status:Existing (RSFO) Sign Name:W20-3 (1500)

Ref Stationing:239+20.00 Assembly Status:Existing (RSFO) Sign Name:W20-3 (1500)

Ref Stationing:1026+52.00 Assembly Status:Replace From Sta. 10261+05.00 Sign Name:R5-11

Ref Stationing:1101+26.00 Assembly Status:Remove Sign Name:W7-3a (6) Sign Name:W1-13

Ref Stationing:1222+13.00 Assembly Status:Replace Sign Name:M3-2P (BLU)

Ref Stationing:137+1.00 Assembly Status:Existing (RSFO) Sign Name:G7-110

Ref Stationing:1227+27.00 Assembly Status:Replace Sign Name:R5-11 (6) Sign Name:R2-5P (6)

SPEED LIMIT 80

TRUCKS 70

SHEET NO.	S12
PLAN SHEET	
PROJECT NAME	WHITEHALL - EAST
COUNTY	JEFFERSON
PROJECT ID	IM 90-5(101)249
UPN	10003001
DESIGNED BY	S. WATSON 04/2026
REVIEWED BY	
CHECKED BY	N. STYREN 04/2026
10003001SIPLN001.DWG	
7/7/2026 10:22 AM	

MONTANA Department of Transportation

SIGNING PLANS

Docusign Envelope ID: C45CCB7B-7BD9-8B63-8084-57E91D352BB5

AWARD COPY



MONTANA Department of Transportation	DESIGNED BY: S. WATSON 04/2026	PROJECT NAME: WHITEHALL - EAST	PLAN SHEET
SIGNING PLANS	REVIEWED BY:	COUNTY: JEFFERSON	SHEET NO. S13
7/7/2026 10:22 AM	CHECKED BY: N. STYREN 04/2026	PROJECT ID: IM 90-5(101)249	
10003001SIPLN001.DWG		UPN: 10003001	

Docusign Envelope ID: C45CCB7B-7BD9-8B63-8084-57E91D352BB5

AWARD COPY

200+00

210+00

220

Ref Stationing:204+81.00
Assembly Status:Replace
Sign Name:D10-6 (251)

Ref Stationing:204+82.00
Assembly Status:Replace
Sign Name:N7-1

L=5556
R=11500

L=5448
R=11407

300', 400' DELINEATOR SPACING

Ref Stationing:1154+99.00
Assembly Status:Replace
Sign Name:D10-6 (251)

Ref Stationing:1155+00.00
Assembly Status:Replace
Sign Name:N7-1

PC 1097+

1100+00

1110+00

1120+00

230+00

240+00

250+00

PT 253+50.58

TS 256+02.71

PT 1152+15.61

TS 1155+13.35

R SPACING

1130+00

1140+00

1150+00

SHEET NO.
S14

PLAN SHEET

PROJECT NAME	WHITEHALL - EAST
COUNTY	JEFFERSON
PROJECT ID	IM 90-5(101)249
UPN	10003001

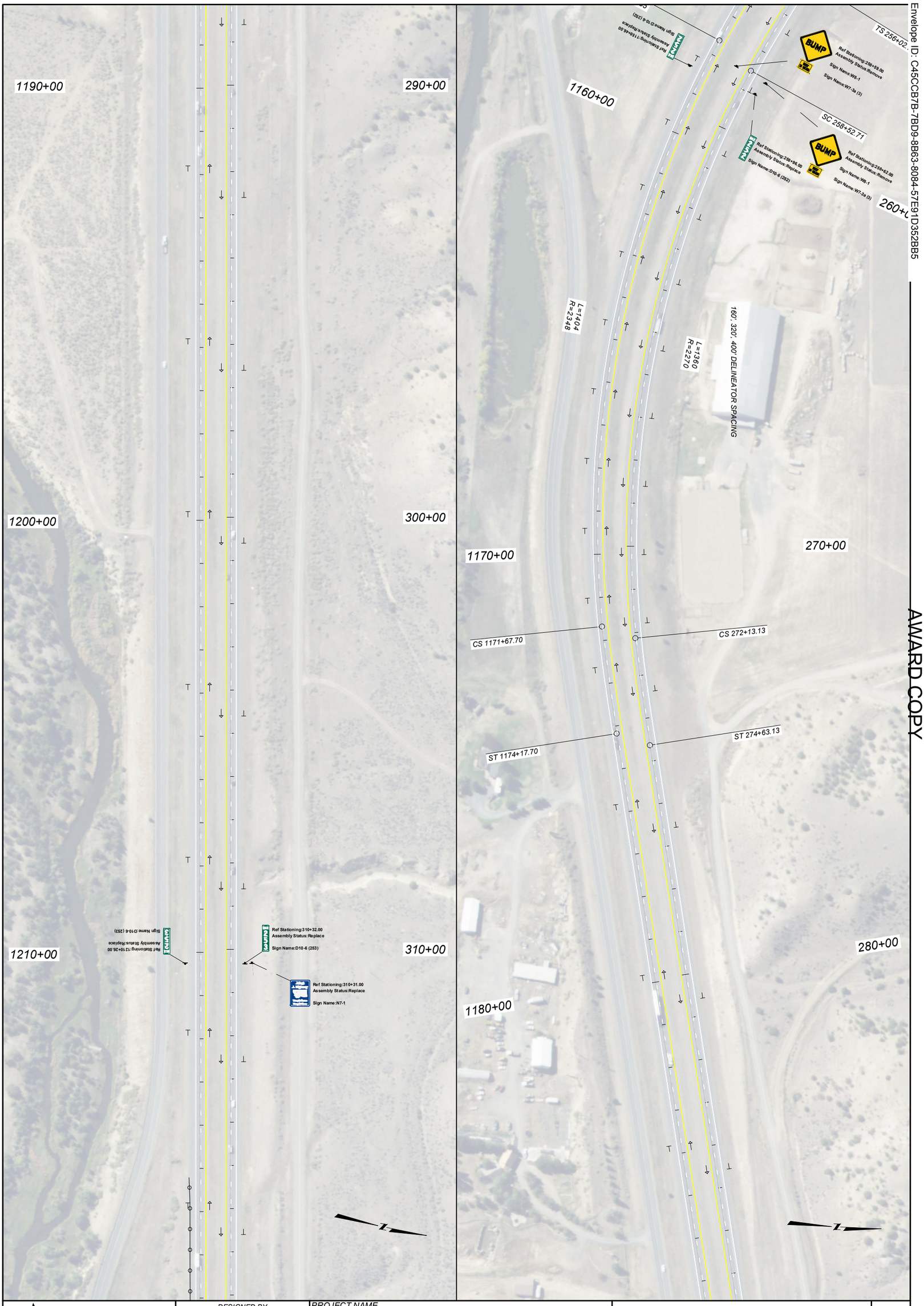
DESIGNED BY	S. WATSON	04/2026
REVIEWED BY		
CHECKED BY	N. STYREN	04/2026

MONTANA
Department of Transportation

SIGNING PLANS

7/7/2026 10:23 AM

10003001SIPLN001.DWG



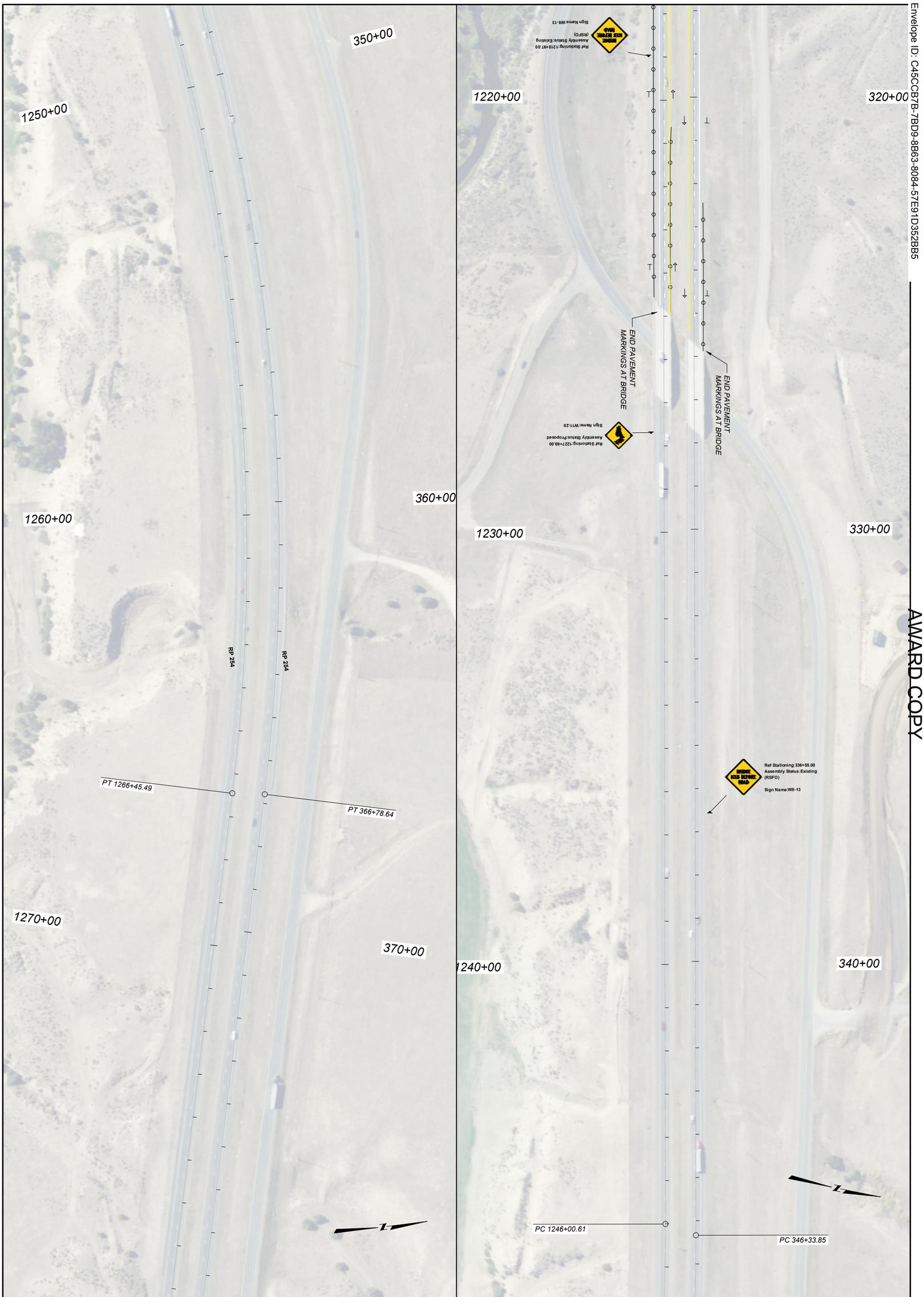
MONTANA Department of Transportation	DESIGNED BY S. WATSON 04/2026	PROJECT NAME WHITEHALL - EAST	PLAN SHEET
SIGNING PLANS	REVIEWED BY	COUNTY JEFFERSON	SHEET NO. S15
7/7/2026 10:23 AM	CHECKED BY N. STYREN 04/2026	PROJECT ID IM 90-5(101)249	
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SIGNING PLANS	REVIEWED BY:	COUNTY: JEFFERSON	SHEET NO. S16
7/7/2026 10:23 AM	CHECKED BY: N. STYREN 04/2026	PROJECT ID: IM 90-5(101)249	
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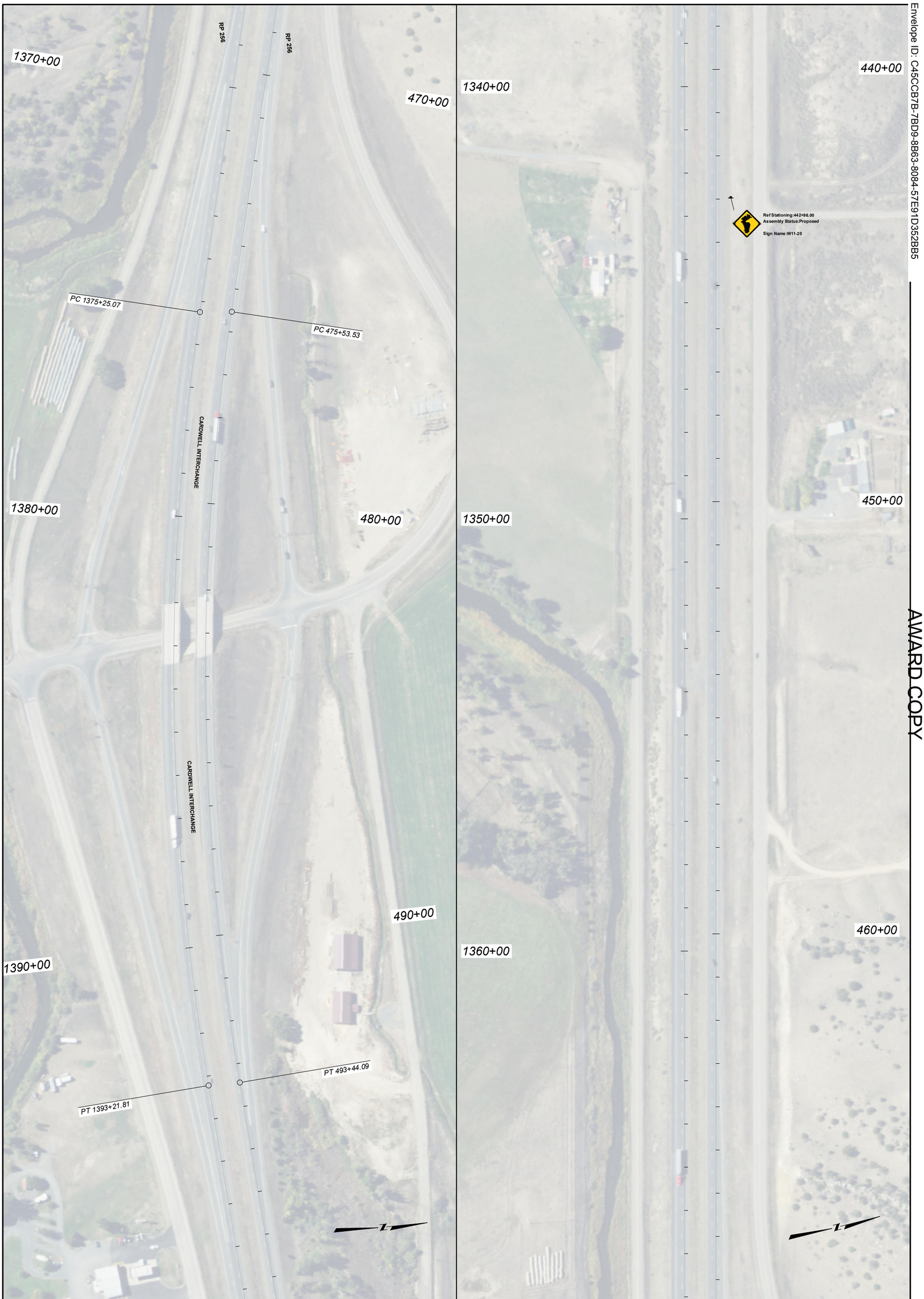
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MONTANA Department of Transportation	DESIGNED BY: S. WATSON 04/2026	PROJECT NAME: WHITEHALL - EAST	PLAN SHEET
SIGNING PLANS	REVIEWED BY:	COUNTY: JEFFERSON	SHEET NO. S17
7/7/2026 10:23 AM 10003001SIPLN001.DWG	CHECKED BY: N. STYREN 04/2026	PROJECT ID: IM 90-5(101)249	
		UPN: 10003001	

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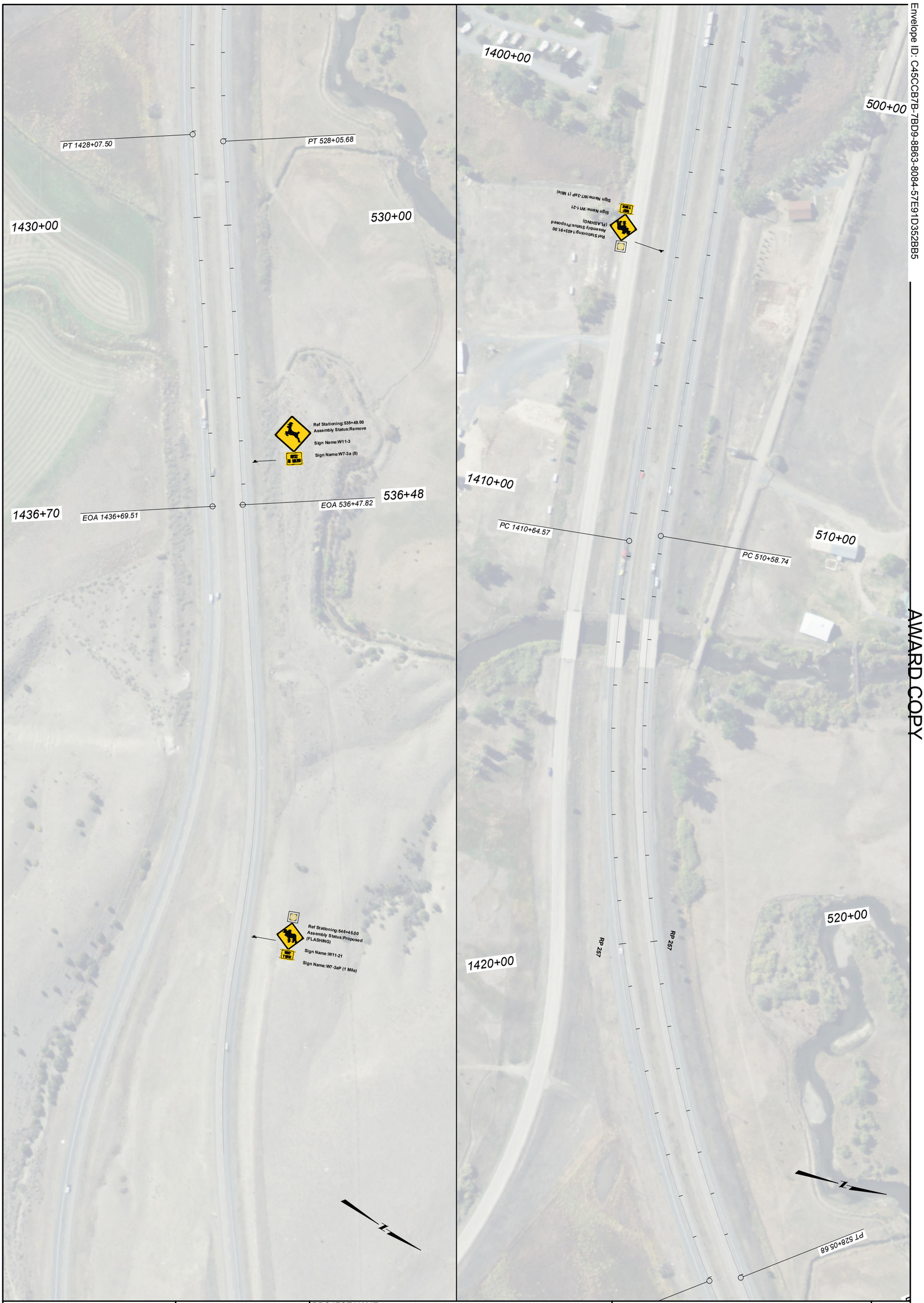
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MONTANA Department of Transportation	DESIGNED BY: S. WATSON 04/2026	PROJECT NAME: WHITEHALL - EAST	PLAN SHEET
SIGNING PLANS	REVIEWED BY:	COUNTY: JEFFERSON	SHEET NO. S18
7/7/2026 10:23 AM	CHECKED BY: N. STYREN 04/2026	PROJECT ID: IM 90-5(101)249	
10003001SIPLN001.DWG		UPN: 10003001	

Docusign Envelope ID: C45CCB7B-7BD9-8B63-8084-57E91D352BB5

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MONTANA Department of Transportation	DESIGNED BY: S. WATSON 04/2026	PROJECT NAME: WHITEHALL - EAST	PLAN SHEET
SIGNING PLANS	REVIEWED BY:	COUNTY: JEFFERSON	SHEET NO. S19
7/7/2026 10:23 AM	CHECKED BY: N. STYREN 04/2026	PROJECT ID: IM 90-5(101)249	
10003001SIPLN001.DWG		UPN: 10003001	

Docusign Envelope ID: C45CCB7B-7BD9-8B63-8084-57E91D352BB5

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SHEET NO.
S20

PLAN SHEET - WHITEHALL INTERCHANGE CROSSROAD

DESIGNED BY	S. WATSON	04/2026	
REVIEWED BY			
CHECKED BY	N. STYREN	04/2026	

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

MONTANA
Department of Transportation

SIGNING PLANS

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PIH

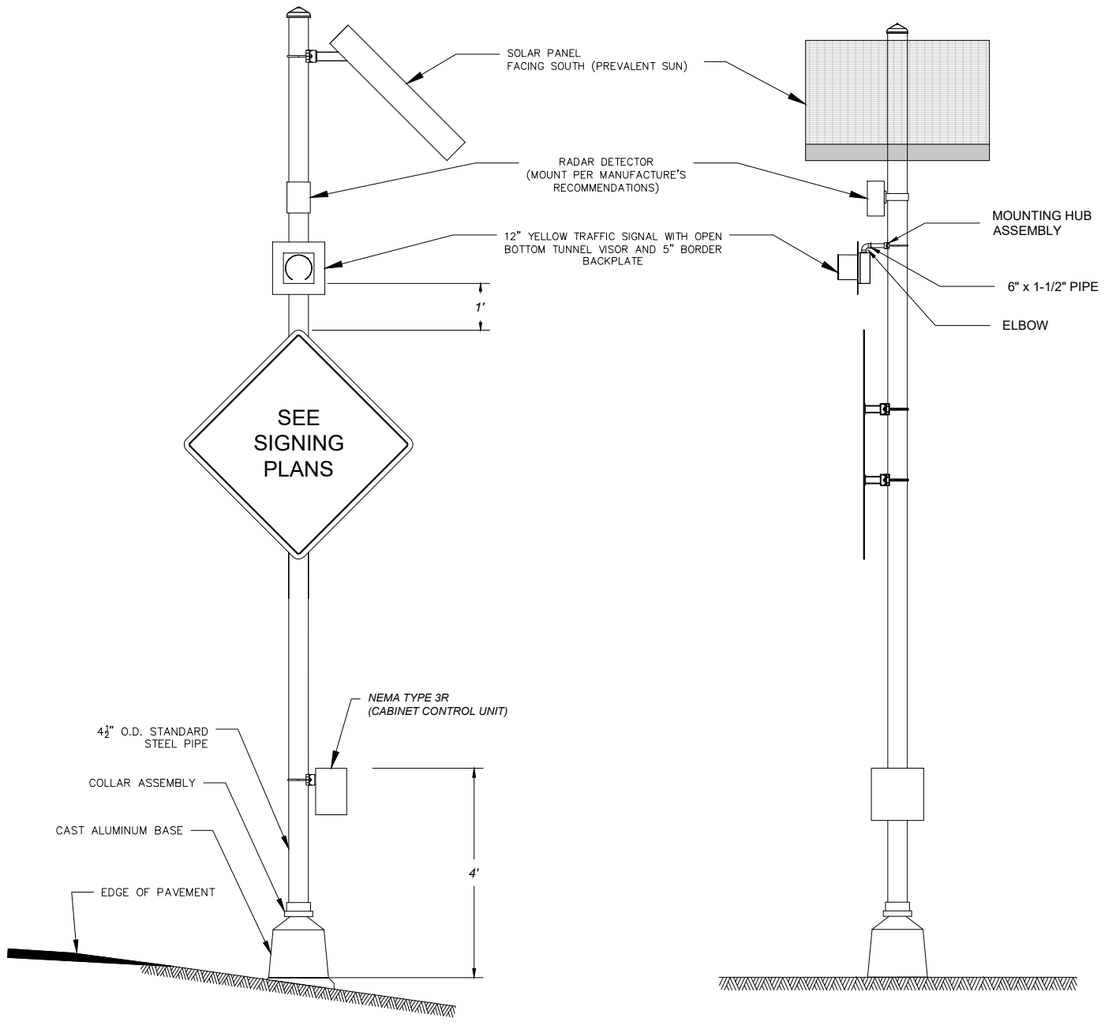
PRELIMINARY

FOR SIGN CLEARANCE FROM EDGE OF ROADWAY, REFER TO SIGNING PLANS.

TRIM TOP OF PIPE TO MEET BEACON MOUNTING REQUIREMENTS.

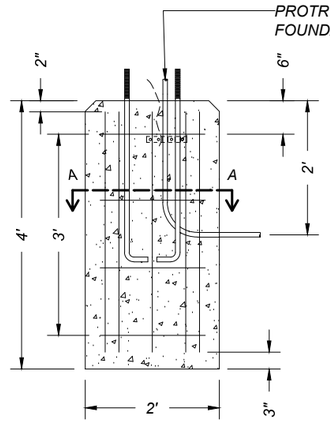
SLOPE GROUND AROUND FOUNDATION AS REQUIRED.

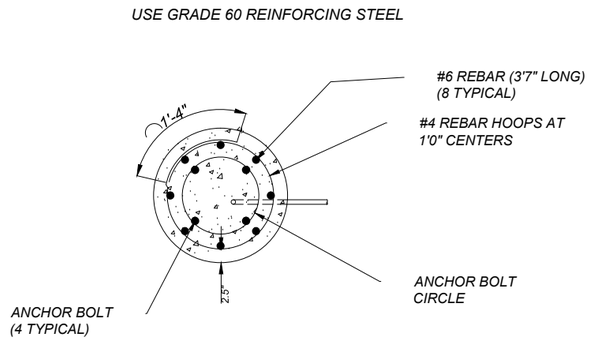
NO PART OF THE FOUNDATION OR ANCHOR BOLTS MAY PROTRUDE MORE THAN 4" ABOVE GROUND AFTER BREAKAWAY.



TYPE 1-200

ELECTRICAL QUANITIES			
ITEM NO.	MATERIAL	UNIT	TOTAL
617000000	FOUNDATION CONCRETE	CUYD	1
617523010	SOLAR SIGNAL-TRAFFIC 1-COL 1-WAY 12	EACH	2
617673200	SIG STANDARD TYPE I-200	EACH	2
617763410	RADAR VEHICLE DETECTION	EACH	2





SECTION A-A

SHEET NO.
E1

ELECTRICAL DETAIL

PROJECT NAME: WHITEHALL - EAST
COUNTY: JEFFERSON
PROJECT ID: IM 90-5(101)249
UPN: 10003001

DESIGNED BY	03/2026
J. DEGROAT	
REVIEWED BY	03/2026
D. CUNNINGHAM	
CHECKED BY	

MONTANA
Department of Transportation

ELECTRICAL PLANS

10003001ELDET001.DWG

7/7/2026 2:52 PM