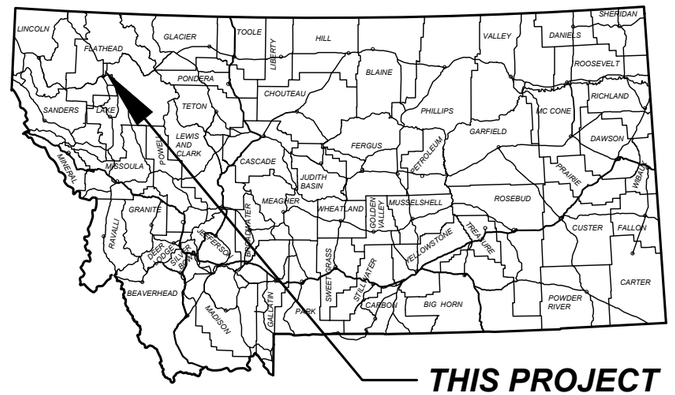
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AWARD COPY



PROJECT DESIGN DATA

PRESENT	2023	A.D.T. =	19,940
LETTING	2025	A.D.T. =	20,500
DESIGN	2045	A.D.T. =	27,070
		D.H.V. =	2,790
		TRUCKS =	4.6%
		V. =	60 MPH
		18 KIP ESAL'S =	388 DAILY
		GROWTH RATE =	1.4% ANNUALLY

SURFACING SOURCES -
CONTRACTOR FURNISHED

MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NH 1-2(252)125

ASPHALT MILL & OVERLAY, SEAL & COVER, FOG SEAL

ROSE XING TO GLACIER AIRPORT

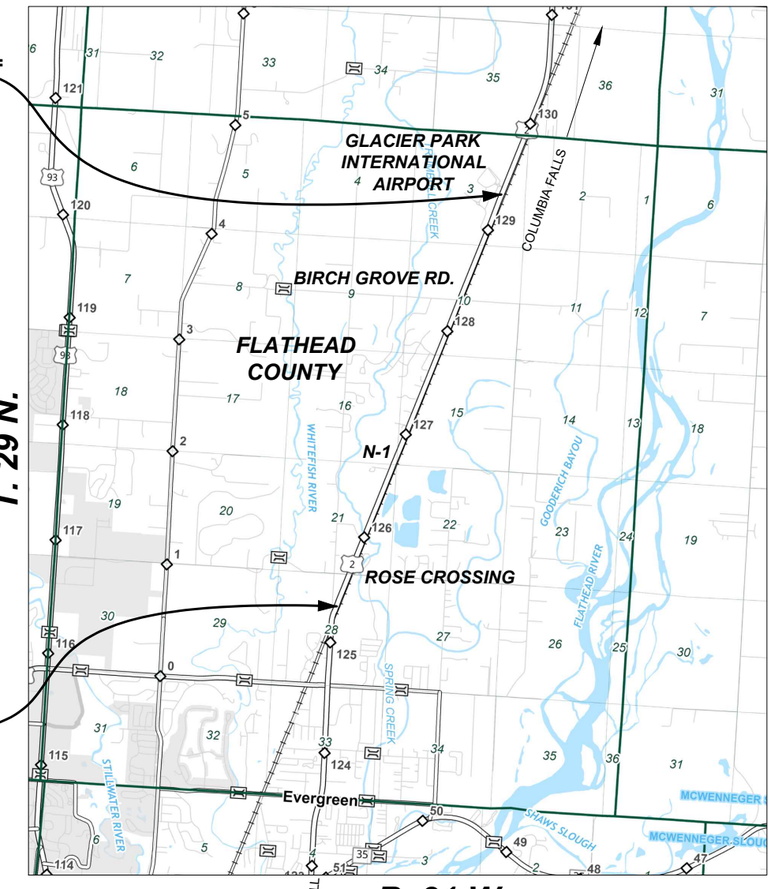
FLATHEAD COUNTY

LENGTH 4.0 MILES

340+11.10 ON SFCP 1-2(144)125 =
340+11.10 END NH 1-5(252)125

THIS CONTRACT
RP 125.3 TO RP 129.3

129+93.63 BEG NH 1-5(252)125
129+93.93 ON STPP 1-2(42)125 =



MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY:
HIGHWAYS
DESIGN ENGINEER

MONTANA
MEGAN
CAIL
29099PE
LICENSED
PROFESSIONAL ENGINEER

Signed by:
54B7CD87417154A3...
4/3/2025
DATE

SHEET NO.
1

TITLE

PROJECT NAME	ROSE XING TO GLACIER AIRPORT
COUNTY	FLATHEAD
PROJECT ID	NH 1-2(252)125
UPN	10373000

DESIGNED BY	L. HARK	9/2024
REVIEWED BY	J. DOLD	10/2024
CHECKED BY	J. SOLIDAY	11/2024

MONTANA
Department of Transportation

ROAD PLANS

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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 - 1/2" AGG.	= 6.0% OF PL.MIX BIT.SURF.
HYDRATED LIME	= 1.4% OF PL.MIX BIT.SURF.
ASPHALT CEMENT	= 3.0% OF RECYCLED PL.MIX (50% RAP)
HYDRATED LIME	= 1.4% OF RECYCLED 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 (S & C)	= 0.075 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
CRACK SEALING	= 0.7 LBS. PER LINEAR FOOT

UTILITIES

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

WETLANDS

WETLANDS MAY EXIST ADJACENT TO THE ROADWAY AND MAY EXIST BEYOND THE PROJECT LIMITS. A WETLAND DELINEATION HAS NOT BEEN COMPLETED FOR THIS PROJECT. IMPACTS TO WETLAND AREAS ARE NOT ANTICIPATED IN ASSOCIATION WITH THE PROPOSED WORK. NO PERMITS HAVE BEEN OBTAINED. ANY ACTION IMPACTING WETLAND AREAS WITHOUT THE APPROPRIATE PERMITTING IS THE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC DETECTOR LOOPS

TRAFFIC DETECTOR LOOPS ARE IN PLACE AT BIRCH GROVE INTERSECTION AND ROSE CROSSING INTERSECTION. THESE LOOPS MAY BE ENCOUNTERED WHEN COLD MILLING THE EXISTING ASPHALT.
TRAFFIC DETECTOR LOOPS ARE IN PLACE SOUTH OF GLACIER INTERNATIONAL AIRPORT INTERSECTION FOR "ADVANCED SIGNAL AHEAD PREPARE TO STOP" OVERHEAD FLASHER AT RP 129.3± FOR NB LANES. DO NOT DISTURB.
NOTE: ADVANCED AND PRESENCE RADAR DETECTION WILL BE ADDED TO THIS INTERSECTION UNDER PROJECT NH 1-2(256)129 GLACIER AIRPORT - NORTH.

AS-BUILTS

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

S 7(6)
STPP 1-2(42)125
SFCP 1-2(144)125
STPP 1-2(120)128
STPP 1-2(121)126
GLACIER INTERNATIONAL AIRPORT 2011 AIRPORT IMPROVEMENTS A.I.P. PROJECT NO. 3-30-0046-45

CENTERLINE COORDINATE TABLE US 2 MAINLINE

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
148+33.13	BOA	1495360.333	806682.161	
150+38.93	EOA	1495551.264	806758.970	

CENTERLINE COORDINATE TABLE ROSE CROSSING EAST

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
20+00.00	BOA	1495481.849	806731.045	
20+55.57	PC	1495461.165	806782.626	
20+86.80	PI	1495451.904	806812.157	
21+17.53	PT	1495447.309	806842.763	
21+47.57	EOA	1495445.162	806872.720	

CENTERLINE COORDINATE TABLE ROSE CROSSING WEST

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
10+00.00	BOA	1495459.959	806722.239	
11+49.10	EOA	1495470.618	806573.524	

SHEET NO. 2

TABLE OF CONTENTS/NOTES

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY	REVIEWED BY	CHECKED BY
L. HARK 9/2024	J. DOLD 10/2024	J. SOLIDAY 11/2024

MONTANA Department of Transportation

ROAD PLANS

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NOTES

APPROACHES (FOR INFORMATION ONLY)

STATION	TYPE	linear feet				EXISTING SURFACING	feet		PROPOSED SURFACE	tons			cu. yards	gallons	sq. yds	REMARKS
		WIDTH	RADIUS #		LENGTH		PMS THK.	CAC THK.		PLANT MIX BIT. SURF. GRADE S 1/2"	PLANT MIX BIT. SURF. MISC.	ASPHALT BINDER PG 58V-34	CRUSHED AGG. COURSE	EMULS. ASPHALT TACK*	COLD MILLING	
			LEFT	RIGHT											0.125'	
149+34	PUBLIC	24	23	40	55.5	PAVED	0.20'	0.60'	PAVED	33		2.0	52	10	197	LT. M.O.C.
149+57	PUBLIC	24	37	53	46.3	PAVED	0.20'	0.60'	PAVED	25		1.5	39	13	259	RT. M.O.C.
SUBTOTAL	**PUBLIC**									**58**	~	**3.5**	**91**	**23**	**456**	

ALL RADII MEASURED TO FRONT OF GUTTER OR EDGE OF SHOULDER
M.O.C. - MEASURED ON CAD
* BASED ON 1 APPLICATION

MCS SCALE SITE (FOR INFORMATION ONLY)

STATION				linear feet		EXISTING SURFACING	feet		PROPOSED SURFACE	tons		cu. yards	gallons	sq. yds		REMARKS
				FULL WIDTH	LENGTH		PMS THK.	CAC THK.		PLANT MIX BIT. SURF. MISC.	ASPHALT BINDER PG 58V-34	CRUSHED AGG. COURSE	EMULS. ASPHALT TACK*	REMOVE CONCRETE	COLD MILLING 0.30'	
BEGIN TAPER	BEGIN FULL WIDTH	END FULL WIDTH	END TAPER													
324+75.00	325+35.00	327+15.00	327+75.00	20.0'	300.0'	ASPHALT/CONCRETE	0.40'	0.0' **	ASPHALT	148	8.9	2	58	16	548	MCS SCALE SITE RT. M.O.C. - RP 29.04 #
SUBTOTAL			**MCS SCALE SITE**							**148**	**8.9**	**2**	**58**	**16**	**548**	

SEE MCS SCALE SITE RESURFACING DETAIL
M.O.C. - MEASURED ON CAD
* BASED ON 2 APPLICATIONS
** 0.43' OF CAC IS PROPOSED DIRECTLY UNDER THE 12' X 12' CONCRETE PAD, BUT OUTSIDE OF THE CONCRETE PAD, NO CAC IS PROPOSED.

SHEET NO. 3

NOTES

PROJECT NAME ROSE XING TO GLACIER AIRPORT
COUNTY FLATHEAD
PROJECT ID NH 1-2(252)125
UPN 10373000

DESIGNED BY	REVIEWED BY	CHECKED BY
L. HARK 9/2024	J. DOLD 10/2024	J. SOLIDAY 11/2024

MONTANA Department of Transportation

ROAD PLANS

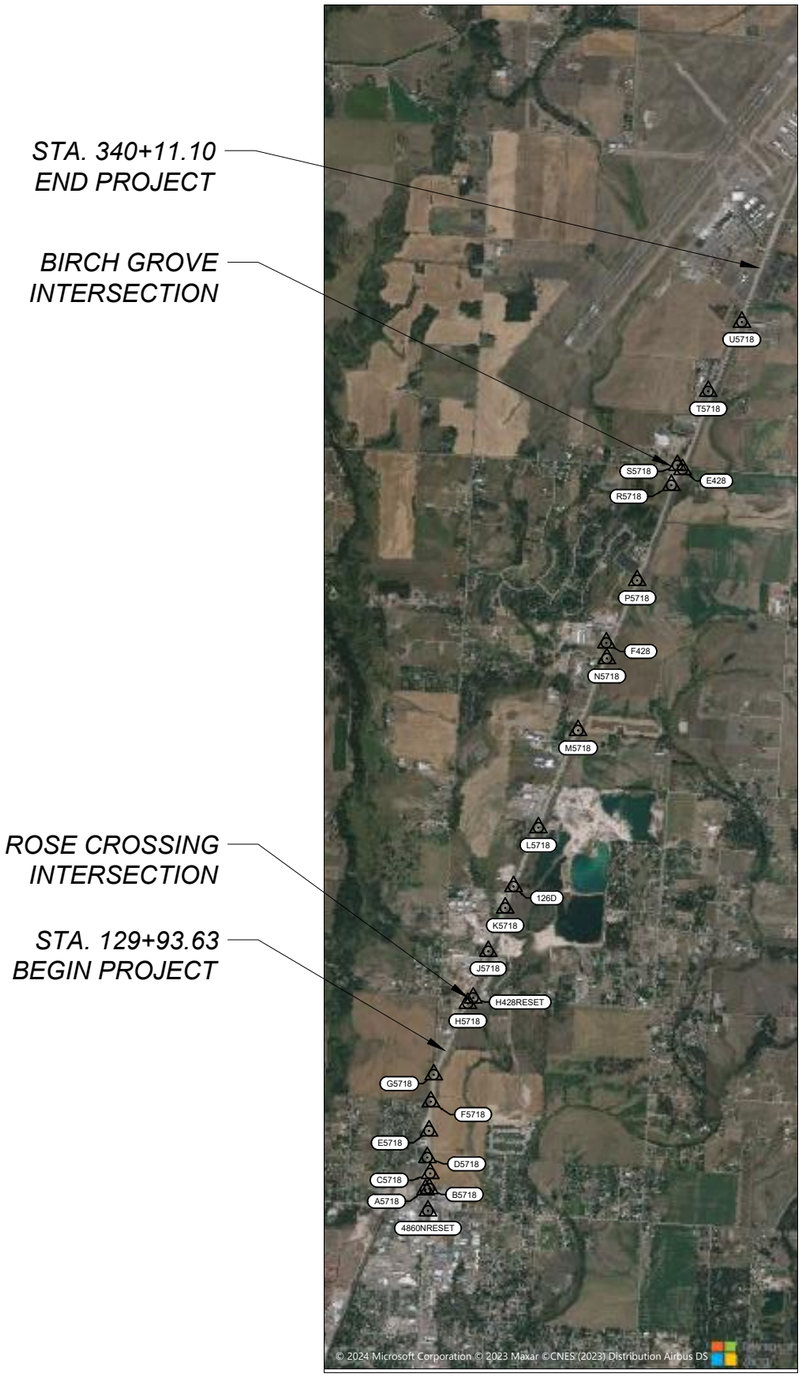
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CONTROL DIAGRAM

SCALE: N/A



NOTE:
THIS PROJECT IS ON THE MONTANA COORDINATE SYSTEM NAD83-1999 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 0.99949467

LEVEL DATA

BEARING SOURCE
GRID -- MONTANA COORDINATE SYSTEM NAD 83-1999

LEVEL DATUM SOURCE
GRID -- MONTANA COORDINATE SYSTEM NAD 83-1999
(ELEVATIONS DERIVED FROM DIFFERENTIAL LEVELS HOLDING BMS G428RESET)

CONTROL ABSTRACT

POINT NAME/ NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
126D	1498114.661	807844.712	2940.42
4860NRESET	1490183.319	805752.780	2928.43
A5718	1490697.921	805691.561	2929.17
B5718	1490726.958	805784.716	2929.32
C5718	1491096.025	805808.012	2928.81
D5718	1491486.134	805736.359	2930.10
E428	1508315.967	811978.592	2956.52
E5718	1492138.116	805777.931	2931.19
F428	1504075.638	810114.161	2948.98
F5718	1492852.276	805823.250	2932.84
G5718	1493510.974	805893.389	2935.73
H428RESET	1495390.668	806859.043	2934.02
H5718	1495256.523	806728.386	2933.97
J5718	1496530.003	807226.772	2937.75
K5718	1497591.215	807642.421	2938.39
L5718	1499554.839	808452.063	2943.04
M5718	1501932.450	809424.531	2947.01
N5718	1503691.905	810126.935	2948.27
P5718	1505603.024	810869.454	2951.06
R5718	1507930.593	811705.425	2958.27
S5718	1508418.812	811853.169	2957.49
T5718	1510229.341	812605.937	2958.71
U5718	1511921.704	813427.436	2962.36

SHEET NO. 4

CONTROL DIAGRAM

PROJECT NAME: **ROSE XING TO GLACIER AIRPORT**
COUNTY: **FLATHEAD**
PROJECT ID: **NH 1-2(252)125**
UPN: **10373000**

DESIGNED BY	L. HARK	9/2024
REVIEWED BY	J. DOLD	10/2024
CHECKED BY	J. SOLIDAY	11/2024

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MONTANA Department of Transportation

ROAD PLANS

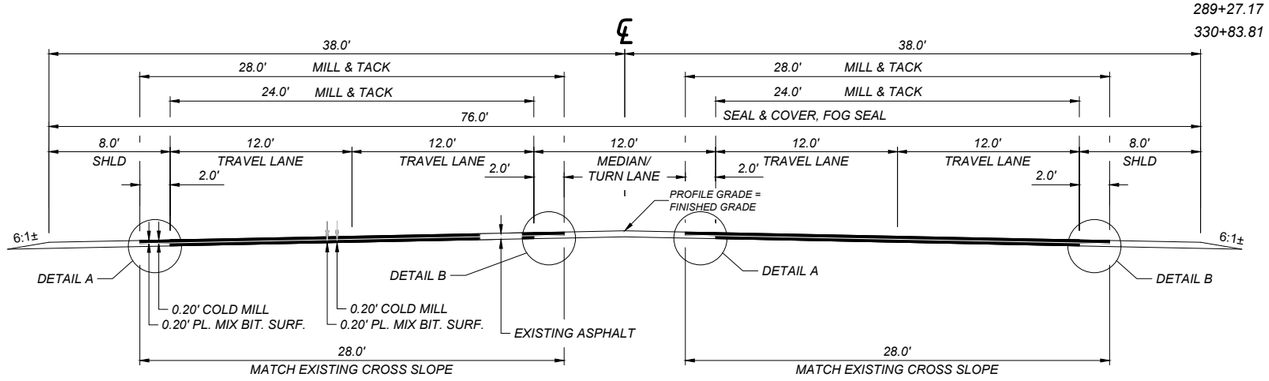
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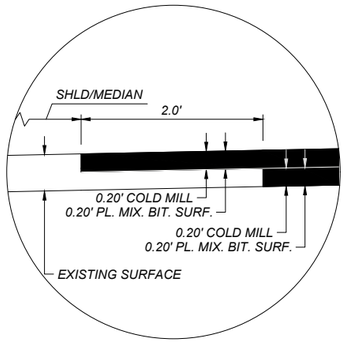
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TYPICAL SECTION NO. 1

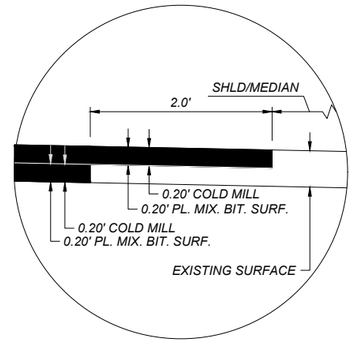
MAINLINE

129+93.63			BEGIN PROJECT
129+93.63	TO	148+33.13	THEN TO TYP. NO. 2
150+38.93	TO	283+80.00	THEN TO TYP. NO. 3
289+27.17	TO	330+83.81	
330+83.81	TO	333+83.81	TRANS. TYP. NO. 1 TO TYP. NO. 5





DETAIL A



DETAIL B

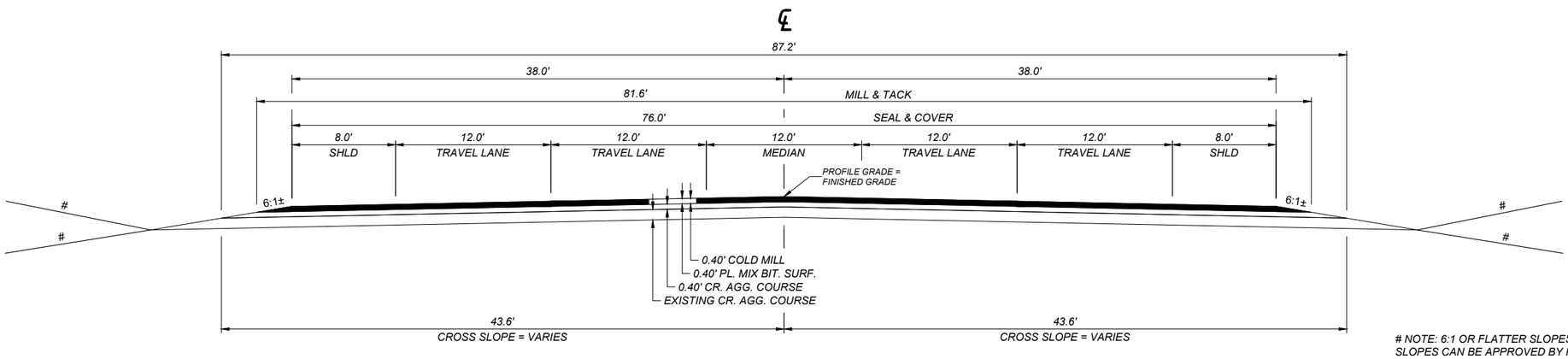
QUANTITIES									
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL				COLD MILLING 0.20' #
	COVER	PLANT MIX	CR. AGG. COURSE		ASPHALT CEMENT	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK #	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet		20.80		square yards PER STATION		844	1,156	844	1,156
cubic yards PER STATION		77.0		tons PER STATION	8.90	1.51			
tons PER STATION		148.4		gals. PER STATION			58	63	
square yards PER STATION	844								

BASED ON TWO SEPARATE 0.20' MILLING OPERATIONS AND TWO LIFTS OF TACK AND 0.20' PL. MIX BIT. SURF.

TYPICAL SECTION NO. 2

MAINLINE

148+33.13 TO 150+38.93 THEN TO TYP. NO. 1 ROSE XING INTERSECTION



NOTE: 6:1 OR FLATTER SLOPES PREFERRED. STEEPER SLOPES CAN BE APPROVED BY PROJECT MANAGER.

QUANTITIES									
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL				COLD MILLING 0.40'
	COVER	PLANT MIX	CR. AGG. COURSE		ASPHALT CEMENT	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet		31.52	33.76	square yards PER STATION		844	1,814	844	907
cubic yards PER STATION		116.7	125.0	tons PER STATION	13.49	1.51			
tons PER STATION		224.9		gals. PER STATION			91	63	
square yards PER STATION	844								

* BASED ON 2 APPLICATIONS

SHEET NO. 5

TYPICAL SECTION

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY	REVIEWED BY	CHECKED BY
L. HARK 9/2024	J. DOLD 10/2024	J. SOLIDAY 11/2024

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MONTANA Department of Transportation

ROAD PLANS

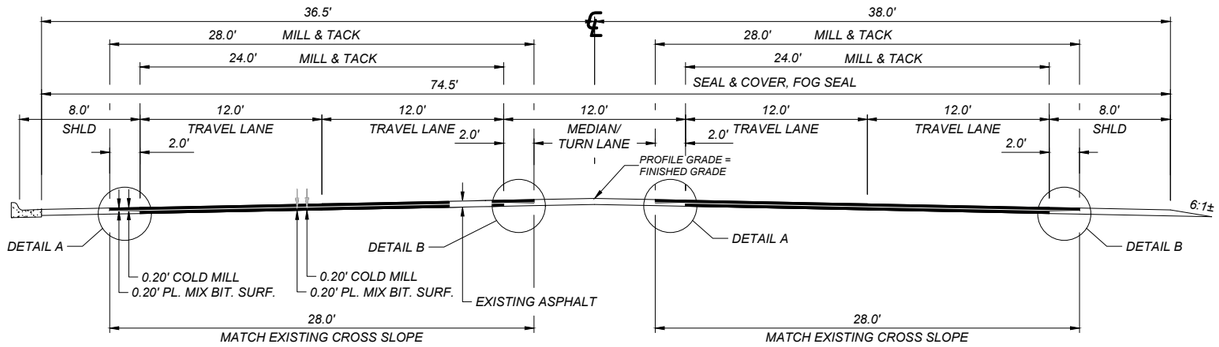
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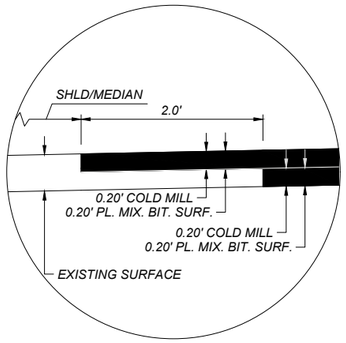
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TYPICAL SECTION NO. 3

MAINLINE

283+80.00 TO 287+97.80 THEN TO TYP. NO. 4

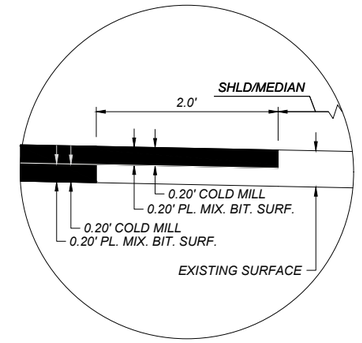




DETAIL A

QUANTITIES									
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL				
	COVER	PLANT MIX	CR. AGG. COURSE		ASPHALT CEMENT	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK #	EMULSIFIED ASPHALT FOG SEAL	COLD MILLING 0.20' #
AREA square feet		20.80		square yards PER STATION		828	1,156	828	1,156
cubic yards PER STATION		77.0		tons PER STATION	8.90	1.48			
tons PER STATION		148.4		gals. PER STATION			58	62	
square yards PER STATION	828								

BASED ON TWO SEPARATE 0.20' MILLING OPERATIONS AND TWO LIFTS OF TACK AND 0.20' PL. MIX BIT. SURF.

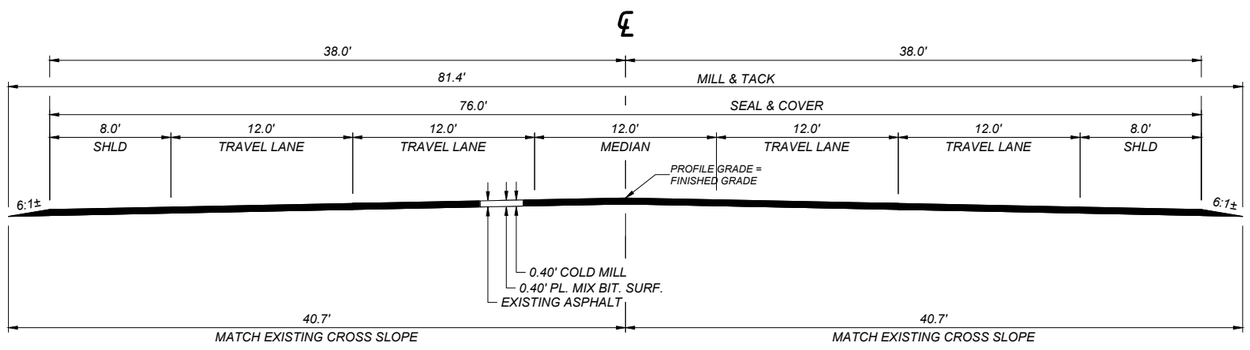


DETAIL B

TYPICAL SECTION NO. 4

MAINLINE

287+97.80 TO 289+27.17 THEN TO TYP. NO. 1 BIRCH GROVE RD. INTERSECTION



QUANTITIES									
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL				COLD MILLING 0.40'
	COVER	PLANT MIX	CR. AGG. COURSE		ASPHALT CEMENT	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK*	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet		31.48	0.0	square yards PER STATION		844	1,808	844	904
cubic yards PER STATION		116.6	0.0	tons PER STATION	13.48	1.51			
tons PER STATION		224.7		gals. PER STATION			90	63	
square yards PER STATION	844								

* BASED ON 2 APPLICATIONS

SHEET NO. 6

TYPICAL SECTION

PROJECT NAME ROSE XING TO GLACIER AIRPORT

COUNTY FLATHEAD

PROJECT ID NH 1-2(252)125

UPN 10373000

DESIGNED BY	REVIEWED BY	CHECKED BY
L. HARK 9/2024	J. DOLD 10/2024	J. SOLIDAY 11/2024

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MONTANA Department of Transportation

ROAD PLANS

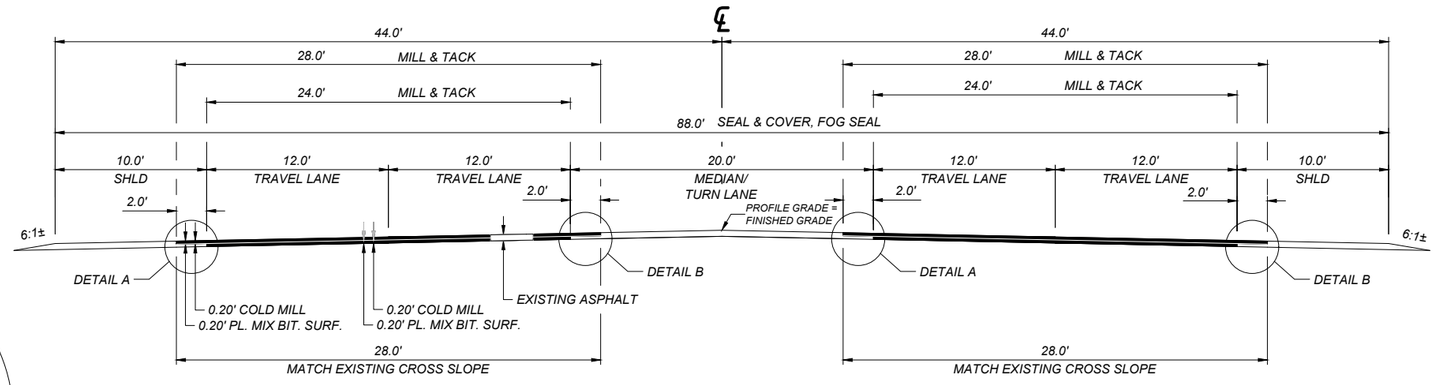
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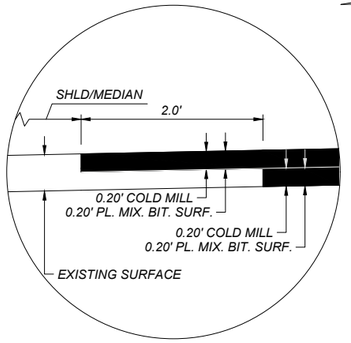
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TYPICAL SECTION NO. 5

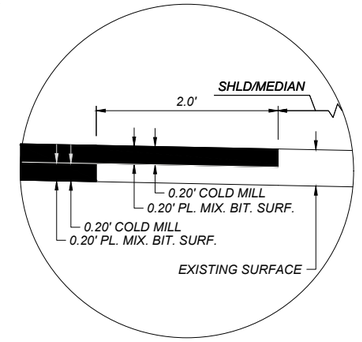
MAINLINE

333+83.81 TO 340+11.10
340+11.10 END PROJECT





DETAIL A



DETAIL B

QUANTITIES									
	AGGREGATE				BITUMINOUS MATERIAL				
UNIT	COVER	PLANT MIX	CR. AGG. COURSE	UNIT	ASPHALT CEMENT	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK #	EMULSIFIED ASPHALT FOG SEAL	COLD MILLING 0.20' #
AREA square feet		20.80		square yards PER STATION		978	1,156	978	1,156
cubic yards PER STATION		77.0		tons PER STATION	8.90	1.75			
tons PER STATION		148.4		gals. PER STATION			58	73	
square yards PER STATION	978								

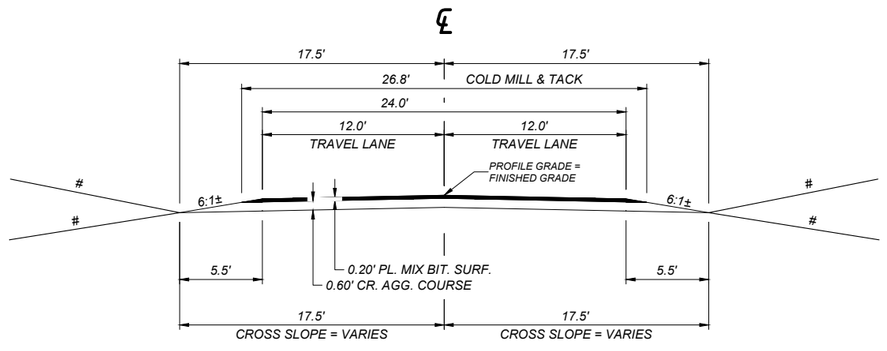
BASED ON TWO SEPARATE 0.20' MILLING OPERATIONS AND TWO LIFTS OF TACK AND 0.20' PL. MIX BIT. SURF.

TYPICAL SECTION NO. 6

ROSE XING EAST & ROSE XING WEST

20+38.00 TO 20+70.54 ROSE CROSSING EAST

10+39.91 TO 10+95.41 ROSE CROSSING WEST



QUANTITIES MEASURED ON CAD

NOTE: 6:1 OR FLATTER SLOPES PREFERRED. STEEPER SLOPES CAN BE APPROVED BY PROJECT MANAGER.

SHEET NO. 7

TYPICAL SECTION

PROJECT NAME ROSE XING TO GLACIER AIRPORT
COUNTY FLATHEAD
PROJECT ID NH 1-2(252)125
UPN 10373000

DESIGNED BY	REVIEWED BY	CHECKED BY
L. HARK 9/2024	J. DOLD 10/2024	J. SOLIDAY 11/2024

MONTANA Department of Transportation

ROAD PLANS

1/24/2025 10:08 AM 10373000RDTYP002.DWG

Docusign Envelope ID: F570513E-B961-4103-B538-E3922C582FE0

SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	tons HYDRATED LIME	AGGREGATE sq. yards COVER TYPE 2	AGGREGATE tons PLANT MIX BIT. SURF. GRADE S 1/2"	AGGREGATE tons PLANT MIX BIT. SURF. MISC.	AGGREGATE cu. yards CRUSHED AGG. COURSE	BITUMINOUS MATERIAL tons ASPHALT BINDER PG 58V-34	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT FOG SEAL	sq. yards COLD MILLING 0.125'	sq. yards COLD MILLING 0.20'	sq. yards COLD MILLING 0.30'	sq. yards COLD MILLING 0.40'	sq. yards REMOVE CONCRETE	REMARKS
129+93.63	148+33.13	1,839.50	1,839.50					15,525	2,730			163.7	27.8	1,067	1,159		21,265				TYP. NO. 1
148+33.13	150+38.93	205.80	205.80					1,737	463		257	27.8	3.1	187	130				1,867		TYP. NO. 2
150+38.93																					
217+00.04 Bk.	217+00.00 Ah.			0.04		EQUATION															
	283+80.00	13,341.07	13,341.11					112,599	19,798			1,187.4	201.5	7,738	8,405		154,223				TYP. NO. 1
283+80.00	287+97.80	417.80	417.80					3,459	620			37.2	6.2	242	259		4,830				TYP. NO. 3
287+97.80																					
288+00.04 Bk.	288+00.00 Ah.			0.04		EQUATION															
	289+27.17	129.37	129.41					1,092	291			17.4	2.0	116	82				1,170		TYP. NO. 4
289+27.17	330+83.81	4,156.64	4,156.64					35,082	6,168			369.9	62.8	2,411	2,619		48,051				TYP. NO. 1
330+83.81	333+83.81	300.00	300.00					2,733	445			26.7	4.9	174	204		3,468				TRANS. TYP. NO. 1 TO TYP. NO. 5
333+83.81																					
340+10.92 Bk.	340+11.07 Ah.				0.15	EQUATION															
	340+11.10	627.29	627.14					6,133	931			55.8	11.0	364	458		7,250				TYP. NO. 5
						ADDITIONAL SURFACING			58	148	393	12.4		81		456		548		16	
SUBTOTAL																456	239,087	548	3,037		
TOTAL		21,017.47	21,017.40	0.08	0.15		443	178,360	31,504	148	650	1,898.3	319.3	12,380	13,316	243,128				16	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE tons PLANT MIX BIT. SURF. GRADE S 1/2"	AGGREGATE tons PLANT MIX BIT. SURF. MISC	AGGREGATE cu. yards CRUSHED AGG. COURSE	BITUMINOUS MATERIAL tons ASPHALT BINDER PG 58V-34	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT FOG SEAL	sq. yards COLD MILLING 0.125'	sq. yards COLD MILLING 0.30'	sq. yards REMOVE CONCRETE	REMARKS
						2 - PUBLIC APPROACHES	58		91	3.5		23		456			
						1- MCS SCALE SITE		148	2	8.9		58			548	16	
129+93.63	340+11.10					* FINISHED GRADE CONTROL LEVELING			300								
SUBTOTAL		~	~	~	~		58	148	393	12.4	~	81	~	456	548	16	

* TO BE USED AS NEEDED FOR FINISHED GRADE CONTROL LEVELING PRIOR TO 0.40' ASPHALT OVERLAY. SEE SPECIAL PROVISION.

SHEET NO. 8

SUMMARY

PROJECT NAME ROSE XING TO GLACIER AIRPORT
COUNTY FLATHEAD
PROJECT ID NH 1-2(252)125
UPN 10373000

DESIGNED BY	DATE
L. HARK	9/2024
REVIEWED BY	DATE
J. DOLD	10/2024
CHECKED BY	DATE
J. SOLIDAY	11/2024

MONTANA Department of Transportation

ROAD PLANS

1/24/2025 10:02 AM

10373000RDSUM001.DWG

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SUMMARY

REVEGETATION

STATION		lump sum REVEGE-TATION	REMARKS
FROM	TO		
129+94	340+11	1	
TOTAL		1	

FOR INFORMATION ONLY

RUMBLE STRIPS

STATION		miles RUMBLE STRIPS		gals	REMARKS
		CONTIN-UOUS	INTER-MITTENT SHOULDER	EMULSIFIED ASPHALT FOG SEAL #	
FROM	TO				
129+93.63	340+11.10		3.8	451	RT.
129+93.63	340+11.10		3.8	451	LT.
SUBTOTAL		~	7.6	902	
TOTAL		7.6		~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICA-TION #	FINAL APPLICA-TION	TOTAL
STRIPING - WHITE PAINT	gallon	624		624
STRIPING - YELLOW PAINT	gallon	603		603
WORDS & SYMBOLS - WHITE PAINT	gallon	75		75
WORDS & SYMBOLS - YELLOW PAINT	gallon	30		30
STRIPING - WHITE EPOXY	gallon		277	277
STRIPING - YELLOW EPOXY	gallon		268	268
WORDS & SYMBOLS - WHITE EPOXY	gallon		33	33
WORDS & SYMBOLS - YELLOW EPOXY	gallon		14	14
YELLOW CURB EPOXY	gallon		12	12
TEMPORARY STRIPING	linear feet			**154,904**

BASED ON 3 APPLICATIONS.

CRACK SEALING *

STATION		TRANSVERSE & LONGITUDINAL CRACK SEALING CRACK SEALING		REMARKS
FROM	TO	pounds	linear feet	
129+93.63	340+11.10	973	1,400	CRACK SEALING IS ONLY REQUIRED OUTSIDE THE MILL FILL AREAS ON US-2 IN THE CENTER MEDIAN AND OUTSIDE SHOULDERS.
SUBTOTAL		973	#	
TOTAL		973	#	

* SEE DETAIL SHEET
# FOR INFORMATION ONLY

GRADING

STATION	cu. yards UNCL. EXC.	EXCESS EXC.	EMB.+	REMARKS
129+93.63				
	367		25	MAINLINE GRADING
340+11.10				
TOTAL	367	# 342	# 25	

FOR INFORMATION ONLY

ADDITIONAL GRADING

STATION		cu. yards INCL. IN ROADWAY UNCL. EXC.	EMB.+	ADD. UNCL. EXC.	REMARKS
FROM	TO				
149+34		52	5		PUBLIC APP. LT. (ROSE CROSSING - WEST)
149+57		39	11		PUBLIC APP. RT. (ROSE CROSSING - EAST)
324+75.00	327+75.00	19			MCS SCALE SITE RT.
TOTAL		~	~	0	

SHEET NO. 9

SUMMARY

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY	9/2024
L. HARK	
REVIEWED BY	10/2024
J. DOLD	
CHECKED BY	11/2024
J. SOLIDAY	10373000RDSUM001.DWG

MONTANA Department of Transportation

ROAD PLANS

1/24/2025 10:02 AM

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SUMMARY

FINISH GRADE CONTROL*

STATION		course foot FINISH GRADE CONTROL	REMARKS
FROM	TO		
148+33.13	150+38.93	823	SUBGRADE MAINLINE
129+93.63	340+11.10	42,035	BASECOURSE MAINLINE
20+38.00	20+70.54	65	SUBGRADE ROSE CROSSING EAST
20+38.00	20+70.54	65	BASECOURSE ROSE CROSSING EAST
10+39.91	10+95.41	111	SUBGRADE ROSE CROSSING WEST
10+39.91	10+95.41	111	BASECOURSE ROSE CROSSING WEST
TOTAL		43,210	

* SEE SPECIAL PROVISION

SIDEWALK

STATION		sq. yards						linear feet	REMARKS
		CONCRETE SIDEWALK		DETECTABLE WARNING DEVICES		REMOVE SIDEWALK #		WIDTH	
		4"		TYPE 1					
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT		
149+34.64	150+08.21	54.4		2.4		56.5		5.0	ROSE CROSSING - NW CORNER
149+83.52	150+08.26		25.9		2.2		28.7	5.0	ROSE CROSSING - NE CORNER
SUBTOTAL		54.4	25.9	2.4	2.2	56.5	28.7	~	
TOTAL		80.3		4.6		~		~	

FOR INFORMATION ONLY - INCLUDE IN THE COST OF NEW CONCRETE SIDEWALK.

CURB AND GUTTER

STATION		linear feet				sq. yards		REMARKS
		CONCRETE CURB AND GUTTER		REMOVE CURB AND GUTTER #		CONCRETE VALLEY GUTTER		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
148+80.81	149+37.28		75.0		58.4			ROSE CROSSING - SE CORNER
148+79.61	148+98.56	32.4		33.7				ROSE CROSSING - SW CORNER
149+34.01	150+08.21	95.8		89.2				ROSE CROSSING - NW CORNER
149+81.20	149+85.05						1.3	ROSE CROSSING - NE CORNER *
149+83.52	150+08.26		37.3		38.4			ROSE CROSSING - NE CORNER
SUBTOTAL		128.2	112.3	122.9	96.8	0.0	1.3	
TOTAL		240.5		~		1.3		

FOR INFORMATION ONLY - INCLUDE IN THE COST OF NEW CONCRETE CURB AND GUTTER.
* MODIFIED VALLEY GUTTER OUTLET SHOOT AT SOUTH END OF CURB AND GUTTER. SEE DETAIL.

SHEET NO.
10

SUMMARY

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY	9/2024
L. HARK	
REVIEWED BY	10/2024
J. DOLD	
CHECKED BY	11/2024
J. SOLIDAY	

10373000RDSUM001.DWG

MONTANA
Department of Transportation

ROAD PLANS

1/24/2025 10:02 AM

Docusign Envelope ID: F570513E-B961-4103-B538-E3922C582FE0

DETAIL

(NO SCALE)

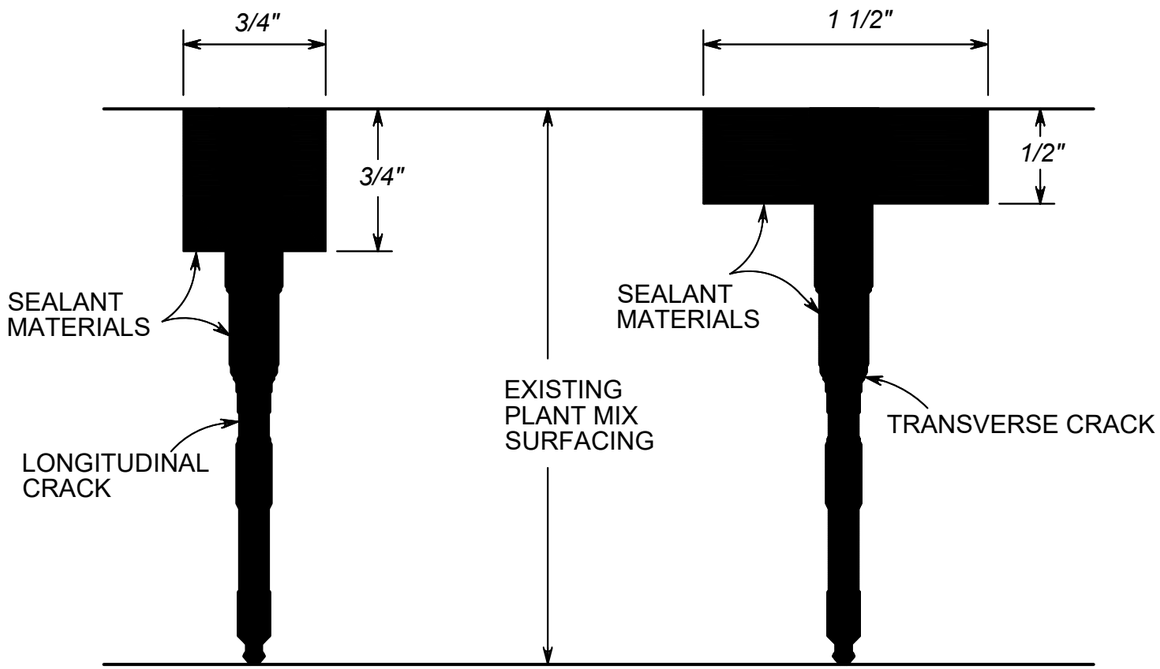
CRACKS 1/8" TO 1.5" WIDE

LONGITUDINAL CRACK

ROUT 3/4" WIDE x 3/4" DEEP
PRIOR TO APPLYING SEALANT

TRANSVERSE CRACK

ROUT 1 1/2" WIDE x 1/2" DEEP
PRIOR TO APPLYING SEALANT



SHEET NO. 11

CRACK SEAL

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY		REVIEWED BY		CHECKED BY	
L. HARK	9/2024	J. DOLD	10/2024	J. SOLIDAY	11/2024

MONTANA Department of Transportation

ROAD PLANS

10373000RDDET001.DWG

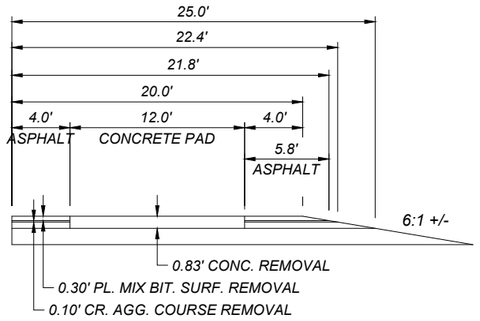
11/15/2024 10:45 AM

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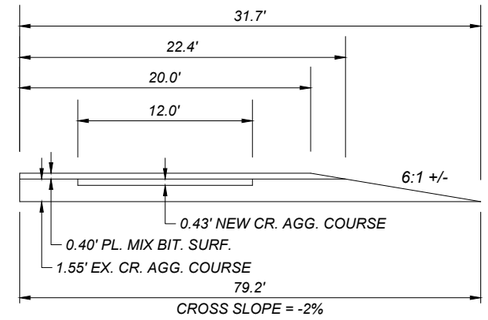
DETAIL

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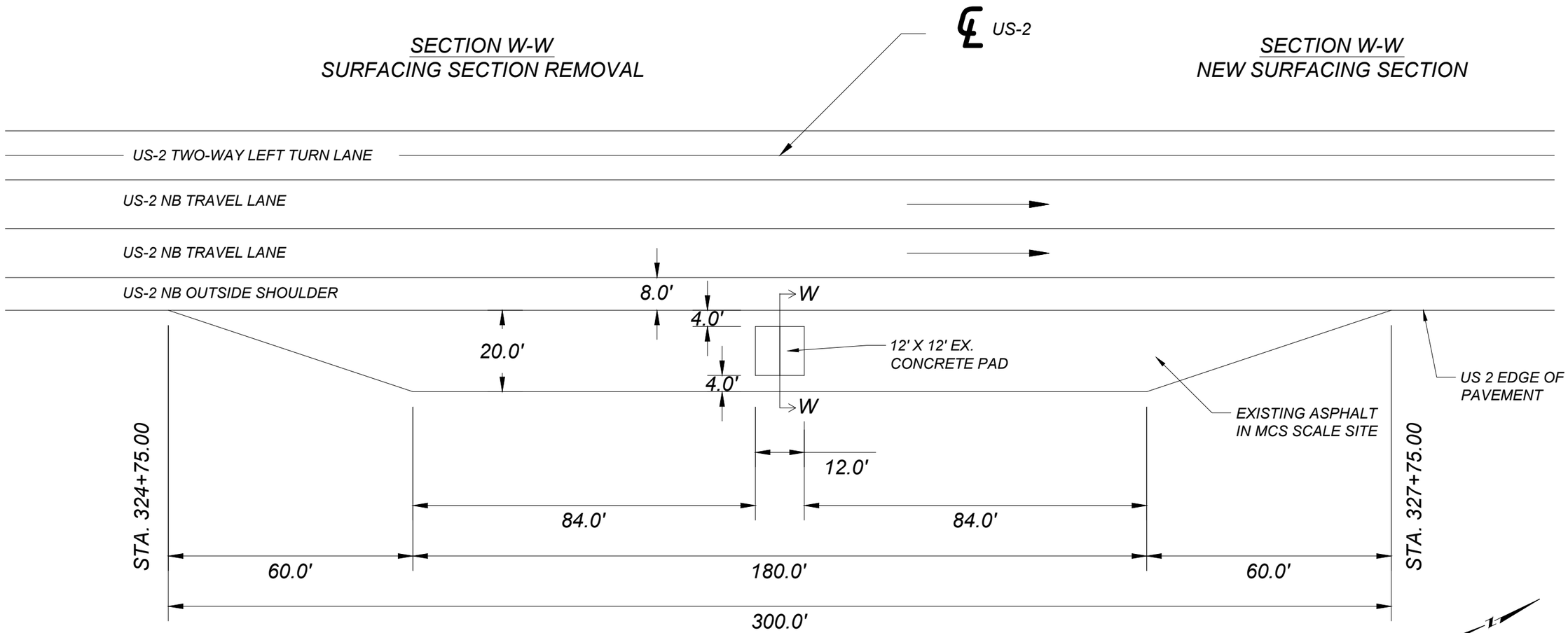
NOTE:
CONCRETE REMOVAL PAID AS REMOVE CONCRETE BY THE SQUARE YARD.
ASPHALT REMOVAL PAID AS COLD MILLING BY THE SQUARE YARD.
CR. AGG. COURSE REMOVAL PAID AS UNCL. EXC. BY THE CUBIC YARD.



SECTION W-W
SURFACING SECTION REMOVAL



SECTION W-W
NEW SURFACING SECTION



PLAN VIEW
MCS SCALE SITE

SHEET NO.
12

MCS SCALE SITE RP 29.04
RESURFACING

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY	REVIEWED BY	CHECKED BY
L. HARK 9/2024	J. DOLD 10/2024	J. SOLIDAY 11/2024

MONTANA
Department of Transportation

ROAD PLANS

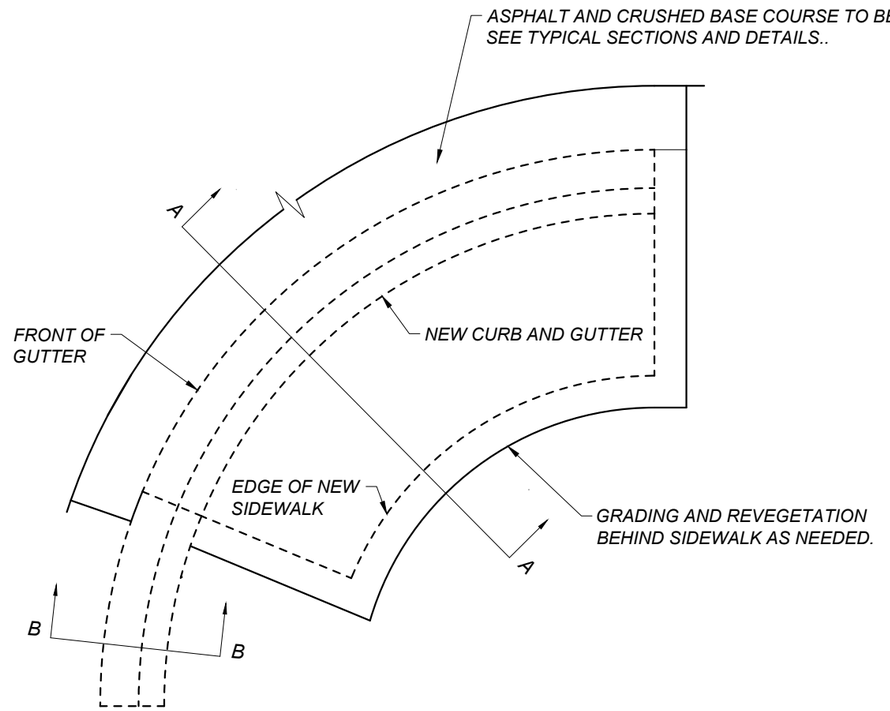
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DETAIL

(NO SCALE)



NOTE: REPLACE SURFACING BEHIND NEW SIDEWALK TO MATCH EXISTING SURFACING, INCLUDING BUT NOT LIMITED TO: GRASS, LANDSCAPING, ASPHALT, CONCRETE, GRAVEL, ETC.

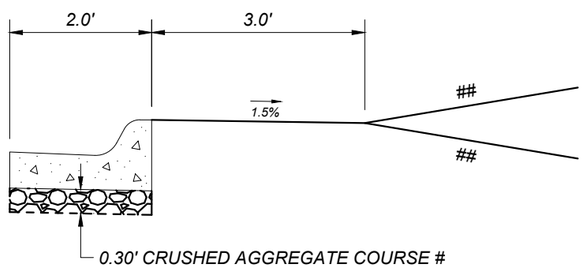
SEE ADA CURB DETAILS FOR LOCATION(S) AND DESIGN AT CURB LINE ELEVATION.

* NOTE: 0.40' PLANT MIX DEPTH FOR MAINLINE AND 0.20' PLANT MIX DEPTH FOR APPROACHES. SEE TYPICAL SECTIONS AND DETAIL SHEETS FOR COLD MILLING AND PMS OVERLAY.

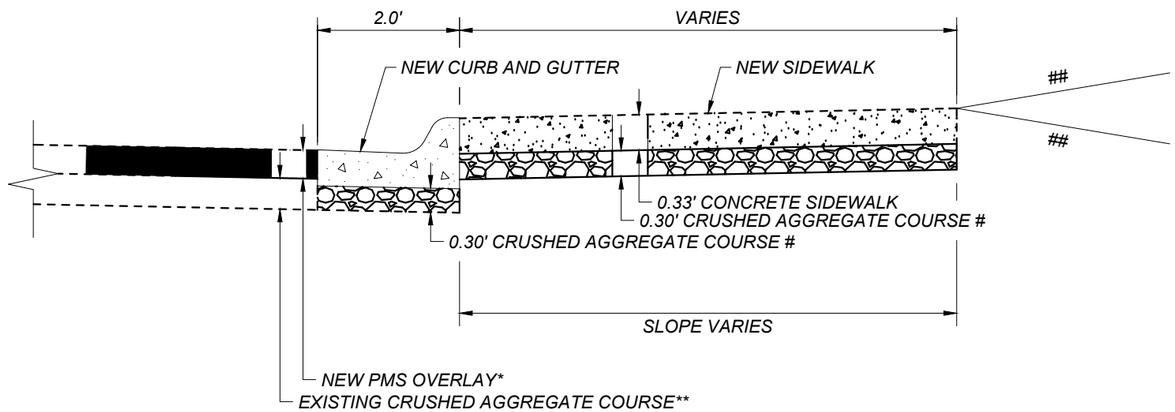
** NOTE: 0.40' CAC DEPTH FOR MAINLINE AND 0.60' CAC DEPTH FOR APPROACHES. SEE TYPICAL SECTIONS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

NOTE: ITEMS ARE NOT MEASURED FOR PAYMENT AND INCLUDED IN THE COST OF NEW SIDEWALK OR CURB AND GUTTER OR VALLEY GUTTER.

NOTE: 6:1 OR FLATTER SLOPES PREFERRED. STEEPER SLOPES CAN BE APPROVED BY PROJECT MANAGER TO ENSURE POSITIVE DRAINAGE AWAY FROM BACK OF SIDEWALK.



SECTION B-B



SECTION A-A

SHEET NO. 13

CURB REPLACEMENT AND MODIFIED VALLEY GUTTER DETAIL

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY	9/2024
L. HARK	
REVIEWED BY	10/2024
J. DOLD	
CHECKED BY	11/2024
J. SOLIDAY	

10373000RDDET002.DWG

MONTANA Department of Transportation

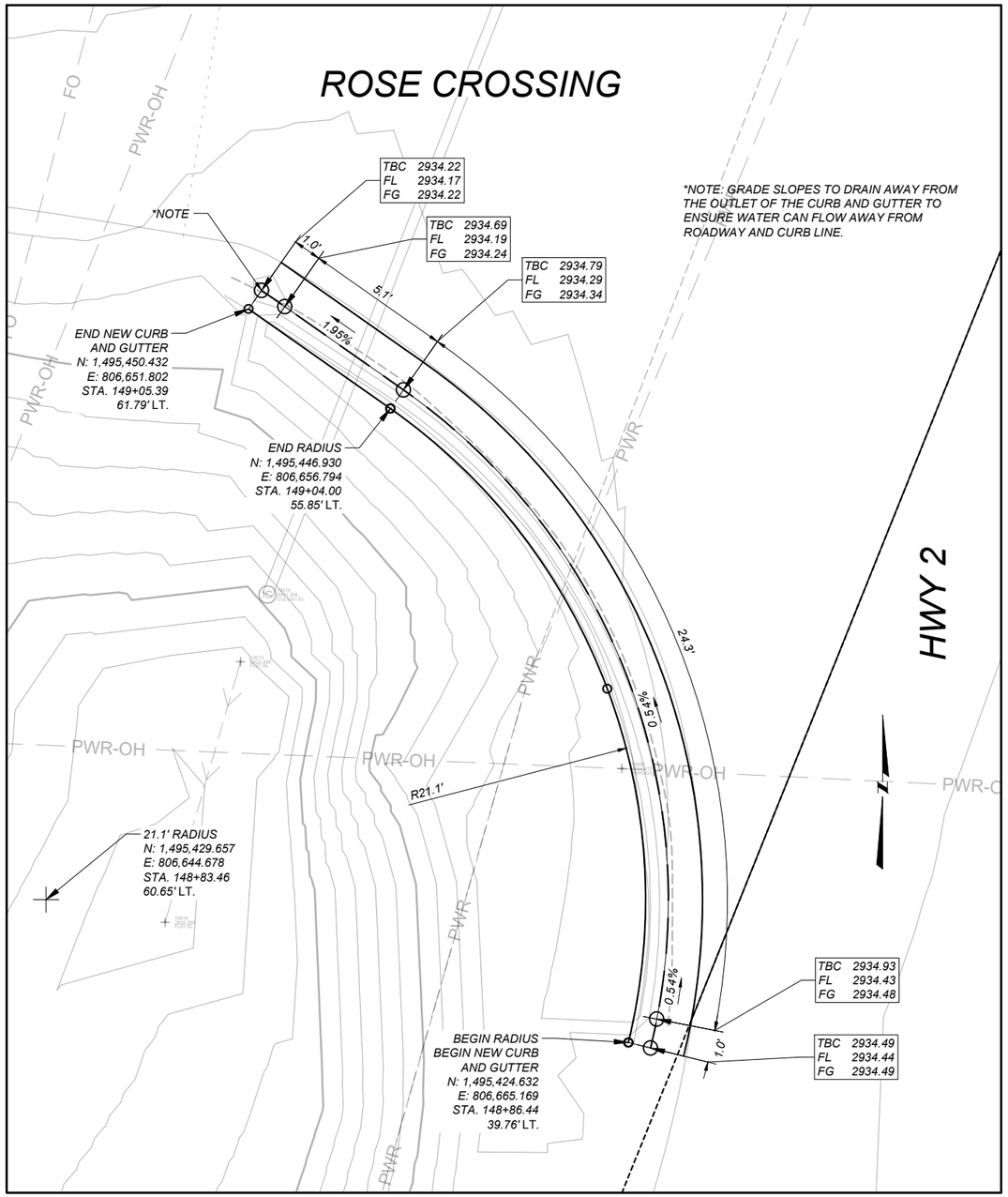
ROAD PLANS

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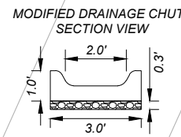
AWARD COPY

INTERSECTION OF US 2 - ROSE XING
SOUTHWEST CORNER



INTERSECTION OF US 2 - ROSE XING
SOUTHEAST CORNER

MODIFIED DRAINAGE CHUTE
SECTION VIEW



SECTION D-D

LEGEND

FS = FINISHED SURFACE ELEV.
TBC = TOP BACK OF CURB ELEV.
FL = FLOW LINE ELEV.
TRW = TOP OF RETAINING WALL ELEV.
FG = FRONT OF GUTTER ELEV.

DETECTABLE WARNING DEVICES

NOTES:

PROVIDE DETECTABLE WARNING DEVICES ON THE BOTTOM 2.0 FEET OF EACH RAMP AS SHOWN. SEE DTL. DWG. NO. 608-40 FOR DETECTABLE WARNING DEVICES DETAILS.

ALL DIMENSIONS AND ELEVATIONS ARE FEET UNLESS OTHERWISE NOTED.

ALL CURB AND GUTTER DIMENSIONS ARE ALONG TBC.

CONTRACTOR VERIFY ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

MATCH EXISTING ELEVATIONS AT ALL JOINTS BETWEEN NEW AND EXISTING CONCRETE. ELEVATIONS SHOWN AT MATCH LINE LOCATIONS ARE APPROXIMATE.

SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.

ROSE CROSSING AND US 2 (SW & SE) CURB DETAILS

NO SCALE

SHEET NO. 14

CURB DETAILS

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY	L. HARK	9/2024
REVIEWED BY	J. DOLD	10/2024
CHECKED BY	J. SOLIDAY	11/2024

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MONTANA Department of Transportation

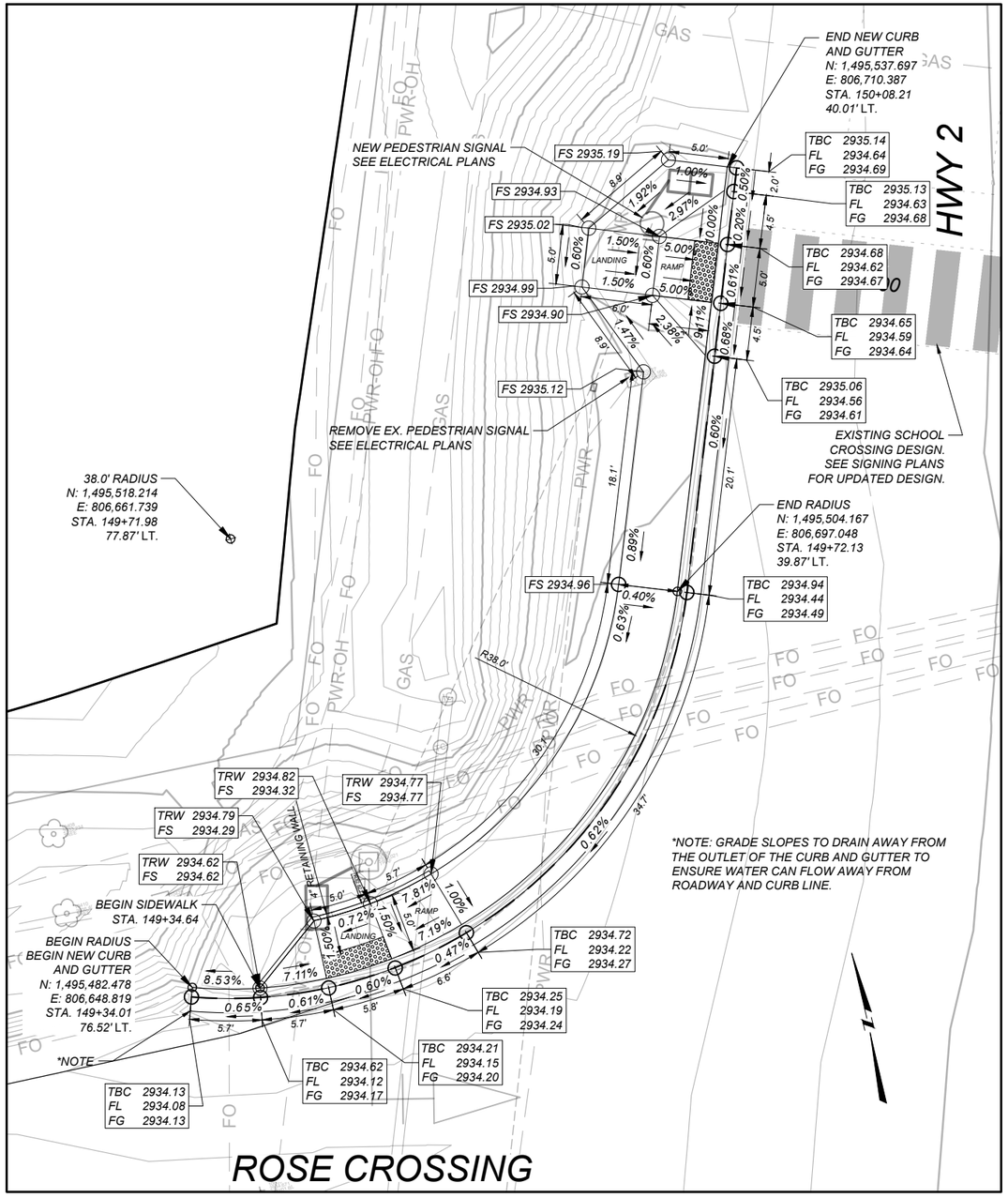
ROAD PLANS

1/24/2025 12:25 PM

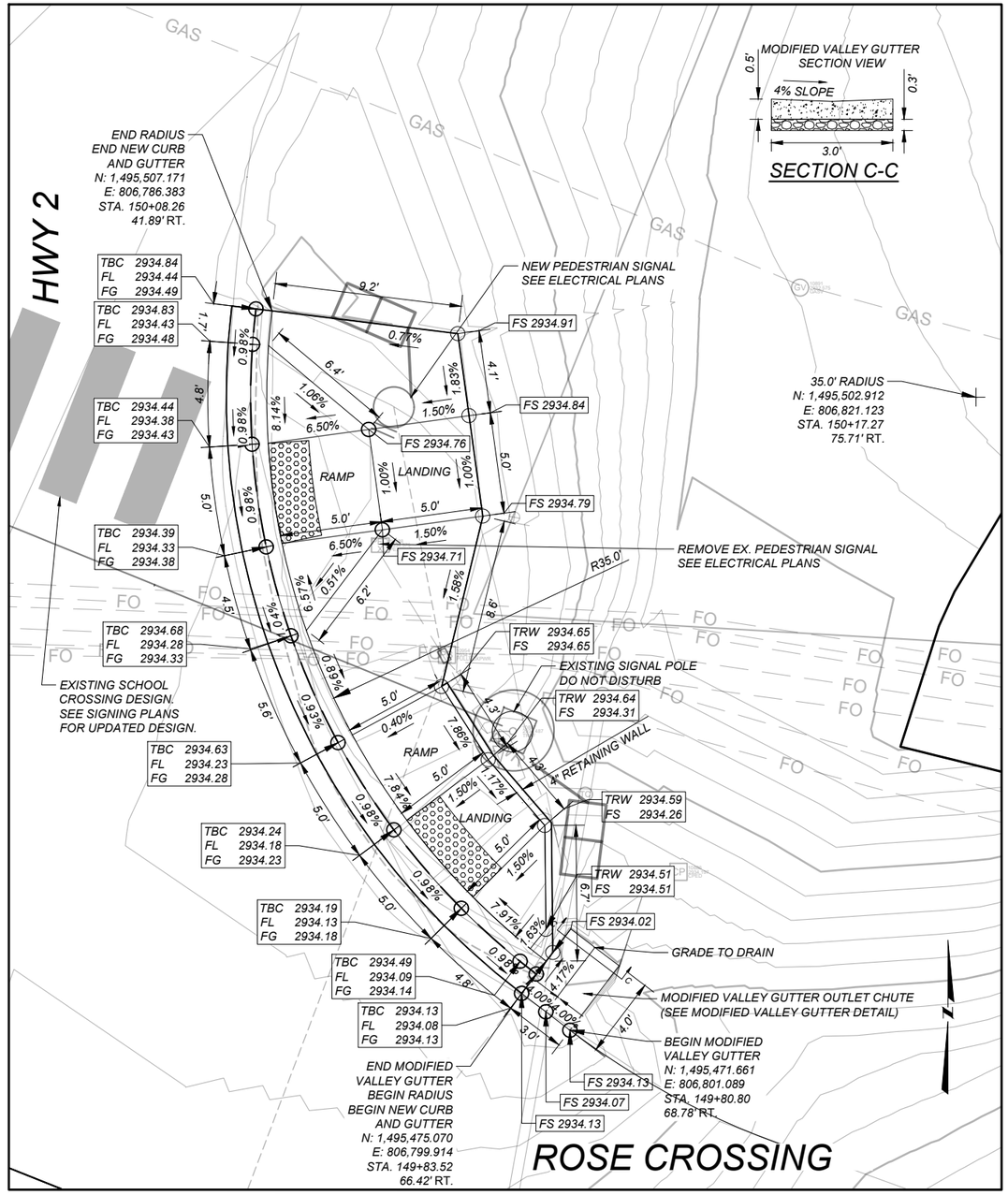
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AWARD COPY

INTERSECTION OF (HWY 2 - ROSE XING)
NORTHWEST CORNER



INTERSECTION OF (HWY 2 - ROSE XING)
NORTHEAST CORNER



LEGEND

FS = FINISHED SURFACE ELEV.
TBC = TOP BACK OF CURB ELEV.
FL = FLOW LINE ELEV.
TRW = TOP OF RETAINING WALL ELEV.
FG = FRONT OF GUTTER ELEV.

DETECTABLE WARNING DEVICES

NOTES:

PROVIDE DETECTABLE WARNING DEVICES ON THE BOTTOM 2.0 FEET OF EACH RAMP AS SHOWN. SEE DTL. DWG. NO. 608-40 FOR DETECTABLE WARNING DEVICES DETAILS.

ALL DIMENSIONS AND ELEVATIONS ARE FEET UNLESS OTHERWISE NOTED.

ALL CURB AND GUTTER DIMENSIONS ARE ALONG TBC.

CONTRACTOR VERIFY ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

MATCH EXISTING ELEVATIONS AT ALL JOINTS BETWEEN NEW AND EXISTING CONCRETE. ELEVATIONS SHOWN AT MATCH LINE LOCATIONS ARE APPROXIMATE.

SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.

ROSE CROSSING AND US 2 (NW & NE) CURB RAMP DETAILS

NO SCALE

SHEET NO. 15

CURB RAMP DETAILS

PROJECT NAME	ROSE XING TO GLACIER AIRPORT
COUNTY	FLATHEAD
PROJECT ID	NH 1-2(252)125
UPN	10373000

DESIGNED BY	L. HARK	9/2024
REVIEWED BY	J. DOLD	10/2024
CHECKED BY	J. SOLIDAY	11/2024

MONTANA Department of Transportation

ROAD PLANS

1/24/2025 12:25 PM

10373000RDALN001.DWG

Docusign Envelope ID: F570513E-B961-4103-B538-E3922C582FE0

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DETAIL
(NO SCALE)

US-2

150+39

150+00

EP 150+38.93
STA. 150+38.93
MATCH EXISTING

END US-2
RECONSTRUCT
STA. 150+38.93

STA. 150+38.93
MATCH EXISTING

STA. 150+13.93
MATCH EXISTING

STA. 150+13.93
2.00%

APPARENT EXISTING R/W

APPARENT EXISTING R/W

BNSF RR

END APP.
RECONSTRUCT
STA. 10+95.41

STA. 10+95.41
MATCH EXISTING

STA. 10+75.00
3.63%

STA. 10+65.00
3.25%

STA. 10+55.00
2.30%

STA. 10+45.00
1.24%

ROSE CROSSING

STA. 10+95.41
MATCH EXISTING

STA. 10+75.00
MATCH EXISTING

STA. 10+65.00
2.29%

STA. 10+55.00
0.76%

BEGIN APP.
RECONSTRUCT
STA. 10+39.91

BEGIN APP.
RECONSTRUCT
STA. 20+38.00

STA. 20+54.00
3.72%

STA. 20+60.00
4.06%

STA. 20+65.00
6.04%

STA. 20+70.54
7.89%

STA. 20+70.54
MATCH EXISTING

STA. 20+54.00
1.48%

STA. 20+60.00
1.69%

STA. 20+65.00
2.17%

STA. 20+70.54
MATCH EXISTING

END APP.
RECONSTRUCT
STA. 20+70.54

ROSE CROSSING

EP 11+49.10

11+49

PWR-OH

PWR

FO

GAS

BP 10+00.00

10+00

APPARENT EXISTING R/W

APPARENT EXISTING R/W

148+33

STA. 148+58.13
MATCH EXISTING

STA. 148+58.13
2.00%

BP 148+33.13

STA. 148+33.13
MATCH EXISTING

STA. 148+33.13
MATCH EXISTING

BEGIN US-2
RECONSTRUCT
STA. 148+33.13

N

SHEET NO.	16
	ROSE XING RECONSTRUCT DETAIL
PROJECT NAME	ROSE XING TO GLACIER AIRPORT
COUNTY	FLATHEAD
PROJECT ID	NH 1-2(252)125
UPN	10373000

DESIGNED BY	L. HARK	9/2024
REVIEWED BY	J. DOLD	10/2024
CHECKED BY	J. SOLIDAY	11/2024

MONTANA
Department of Transportation

ROAD PLANS

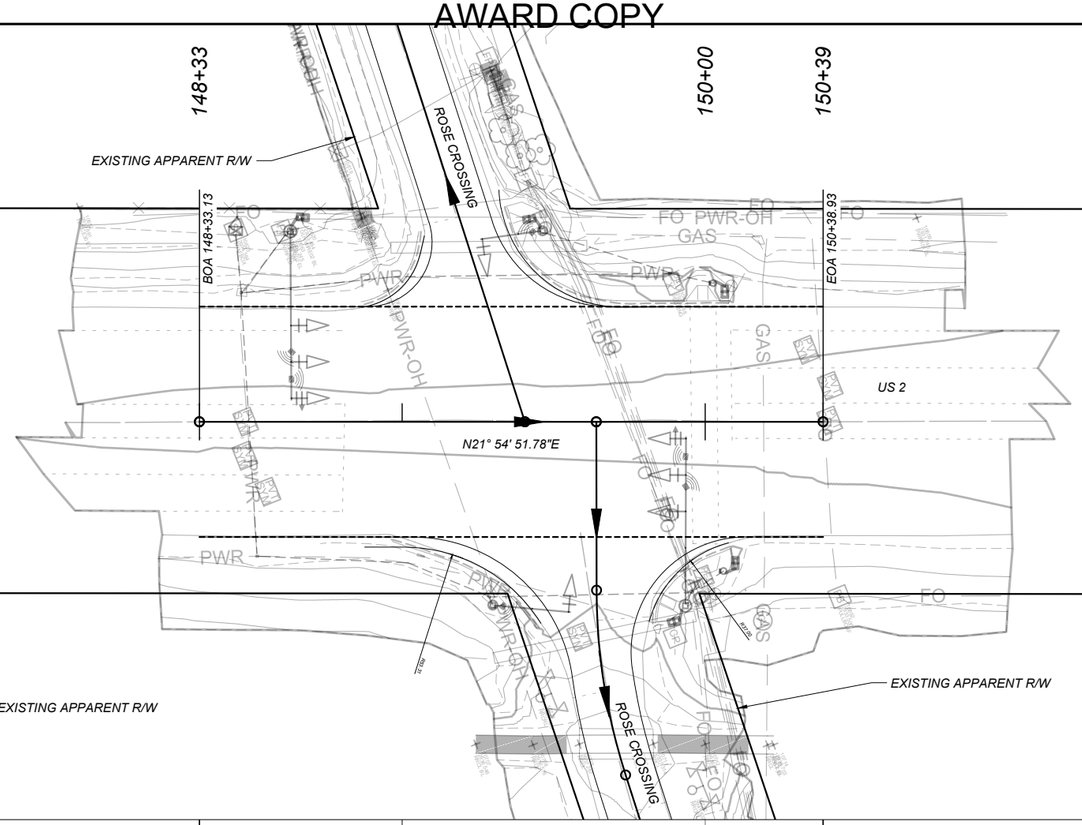
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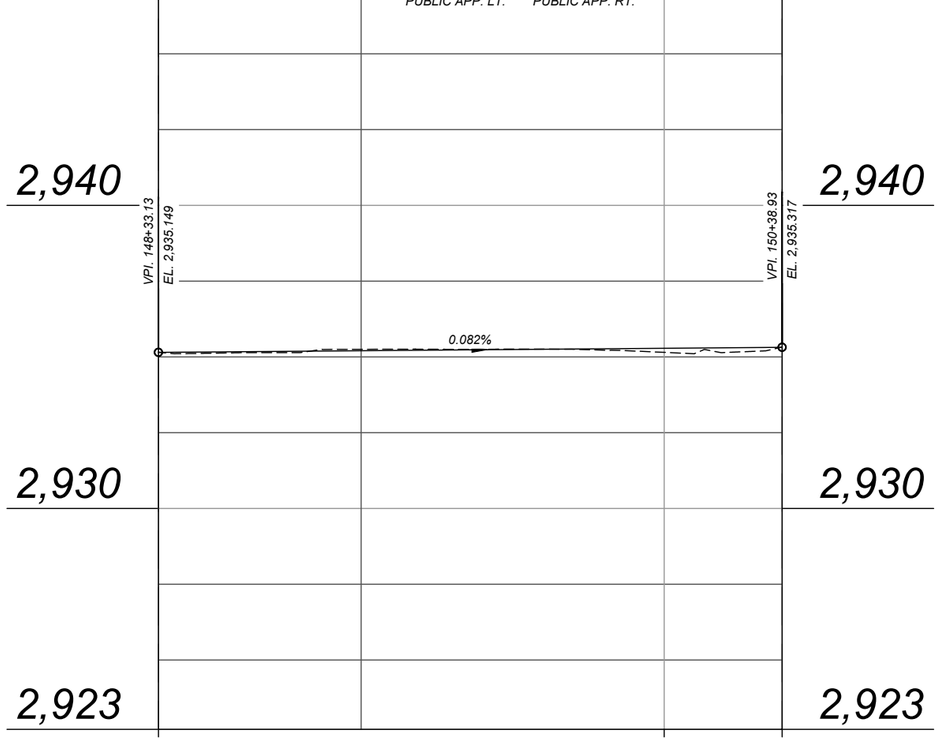
10373000RDALN001.DWG

Docusign Envelope ID: F570513E-B961-4103-B538-E3922C582FE0

AWARD COPY

UTILITY CROSSINGS:
148+42.07 - UG PWR X-ING CL - DEPTH UNKNOWN
149+03.57 - OH PWR X-ING CL - CLEARANCE UNKNOWN
149+66.78 - UG FO X-ING CL - DEPTH UNKNOWN
150+12.46 - UG GAS X-ING CL - DEPTH UNKNOWN
150+32.10 - UG FO X-ING CL - DEPTH UNKNOWN





SHEET NO. 17

US-2
PLAN & PROFILE

PROJECT NAME: **ROSE XING TO GLACIER AIRPORT**
COUNTY: **FLATHEAD**
PROJECT ID: **NH 1-2(252)125**
UPN: **10373000**

DESIGNED BY	9/2024
L. HARK	
REVIEWED BY	10/2024
J. DOLD	
CHECKED BY	11/2024
J. SOLIDAY	

MONTANA
Department of Transportation

ROAD PLANS

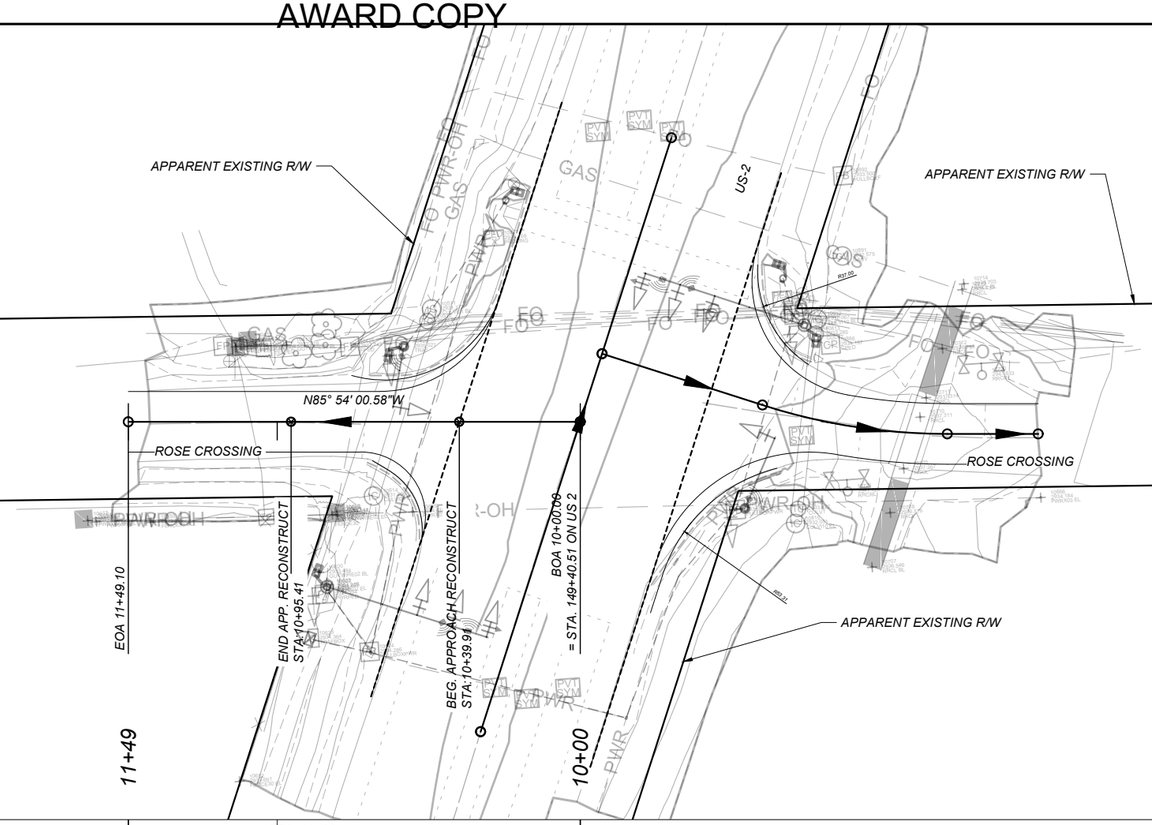
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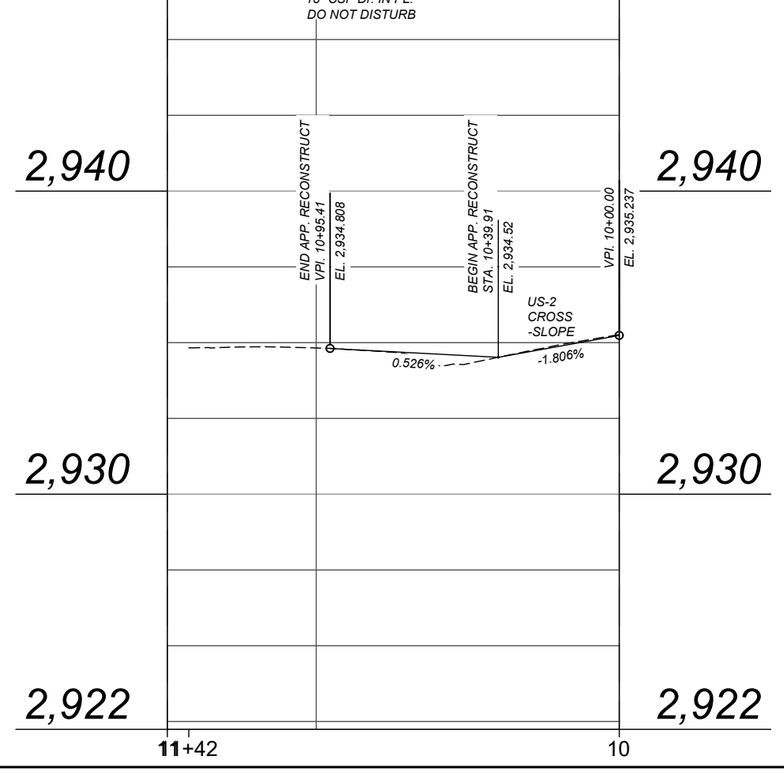
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Docusign Envelope ID: F570513E-B961-4103-B538-E3922C582FE0

AWARD COPY

UTILITY CROSSINGS:
10+49.74 - UG PWR X-ING CL - DEPTH UNKNOWN
10+70.92 - OH PWR X-ING CL - CLEARANCE UNKNOWN
10+74.96 - UG FO X-ING CL - DEPTH UNKNOWN
11+08.61 - UG FO X-ING CL - DEPTH UNKNOWN





SHEET NO. 18

ROSE XING WEST
PLAN & PROFILE

PROJECT NAME: **ROSE XING TO GLACIER AIRPORT**
COUNTY: **FLATHEAD**
PROJECT ID: **NH 1-2(252)125**
UPN: **10373000**

DESIGNED BY	L. HARK	9/2024
REVIEWED BY	J. DOLD	10/2024
CHECKED BY	J. SOLIDAY	11/2024

10373000RDPLP001.DWG

MONTANA
Department of Transportation

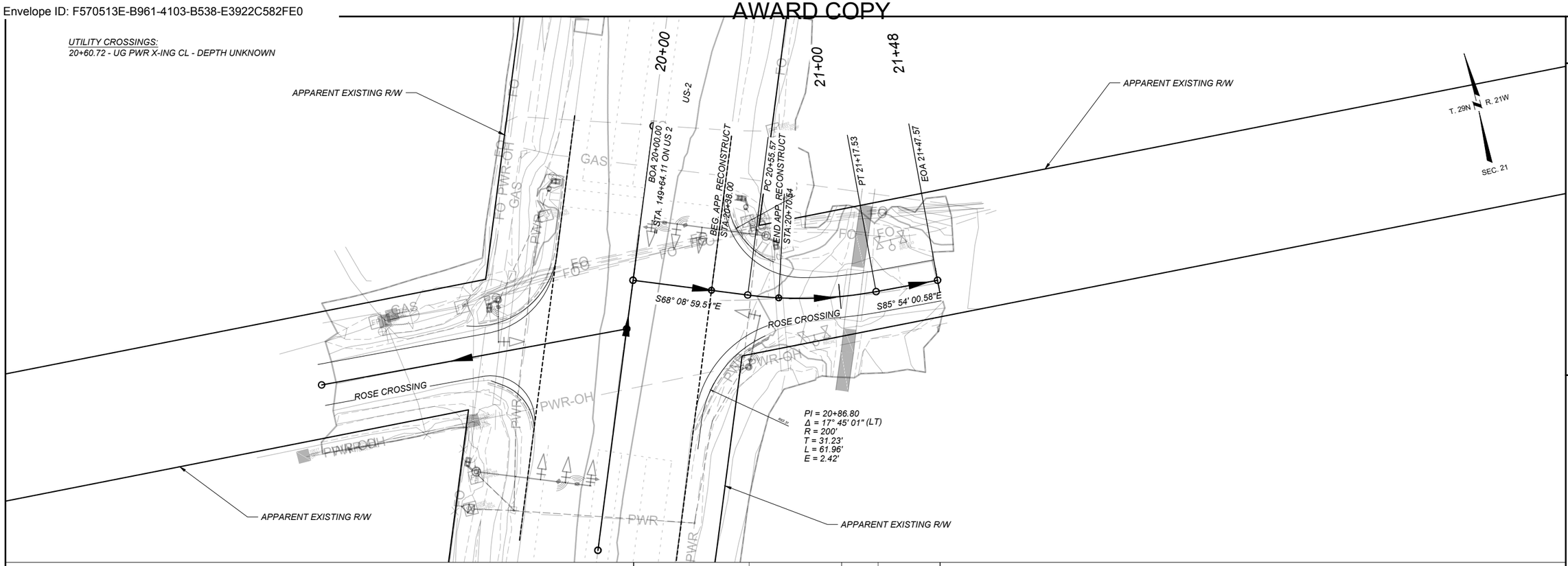
ROAD PLANS

1/17/2025 12:47 PM

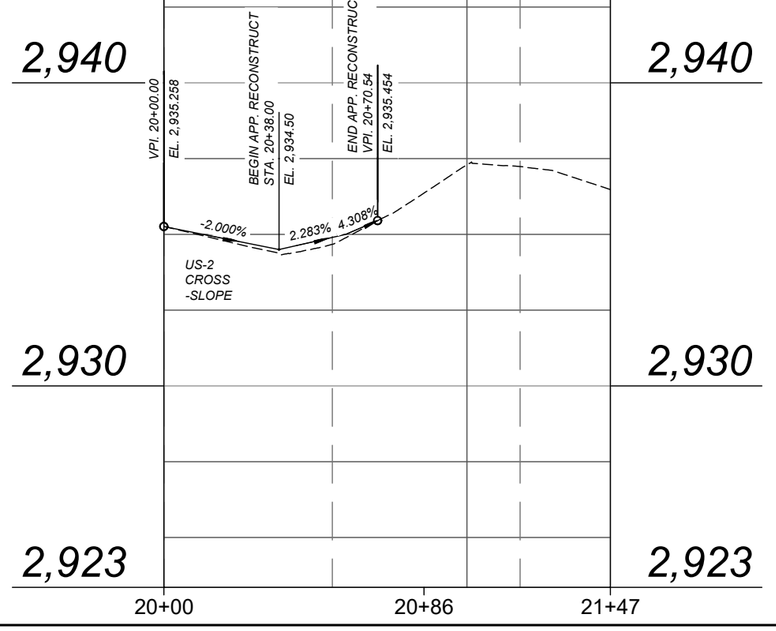
Docusign Envelope ID: F570513E-B961-4103-B538-E3922C582FE0

AWARD COPY

UTILITY CROSSINGS:
20+60.72 - UG PWR X-ING CL - DEPTH UNKNOWN



STA. 20+71
18" CSP Dr. IN PL.
DO NOT DISTURB



SHEET NO. 19

ROSE XING EAST
PLAN & PROFILE

MONTANA
Department of Transportation

ROAD PLANS

PROJECT NAME	ROSE XING TO GLACIER AIRPORT
COUNTY	FLATHEAD
PROJECT ID	NH 1-2(252)125
UPN	10373000

DESIGNED BY	L. HARK	9/2024
REVIEWED BY	J. DOLD	10/2024
CHECKED BY	J. SOLIDAY	11/2024

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NOTES AND ABBREVIATIONS:

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

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

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

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

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

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

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

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

★ = 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.

AIR = ANGLE IRON REQUIRED 2 1/2" x 2 1/2" x 3/8" x 6'-4" (37 lbs.)

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

BGR = BEHIND GUARDRAIL

FY = FLUORESCENT YELLOW SHEETING REQUIRED.

FYG = FLUORESCENT YELLOW - GREEN SHEETING REQUIRED.

MBB = MOUNT BACK TO BACK

RSFO = REPLACE SIGN FACE ONLY.

SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTALS	UNIT
SIGNS-SHEET ALUM SHT INCR XI	15.0	SQFT
SIGNS-ALUM REFL SHEET XI	635.6	SQFT
REMOVE SIGN	62	EACH
REMOVE SIGN-GUIDE	9	EACH
POSTS-STEEL U SIGN	296	LB
POLES-TREATED WOOD 4 IN	158	LNFT
POLES-TREATED WOOD 5 IN	326	LNFT
DELINEATOR TYPE 1	109	EACH

DELINEATION SPECIFICATIONS

SYMBOL	DESIGN	TOTALS
⊣	A	101
⊩⊣	D	8

SHEET NO.
S1

SIGNING SUMMARY
FRAMES AND NOTES

PROJECT NAME ROSE XING TO GLACIER AIRPORT
COUNTY FLATHEAD
PROJECT ID NH 1-2(252)125
UPN 10373000

DESIGNED BY L.MOREY 06/2024
REVIEWED BY N.THOLT 06/2024
CHECKED BY R.SCHROEDER 06/2024

MONTANA Department of Transportation

SIGNING PLANS

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SIGN LOCATION				SIGN PANEL SPECIFICATIONS							SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES											ADDITIONAL SIGN INFORMATION	
REFERENCE POST		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				BREAKAWAY	REMV		RESET		SIGN IMAGE	SIGN TEXT & REMARKS
LFT	MDN	RGT			W	X	H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
125.273																																			
X				W1-8L (2x)	24	X	30			MBB		10.0	5" Treated Wood Pole		5.0	2.5	3.5	12.8				X		10.0			14					1					
125.276																																			
		X		R3-9B	36	X	48					10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X		12.0			16					1					TWO-WAY LEFT ONLY
125.288																																			
X				W10-1	36	X	36				RSFO				5.0	3.0								7.1								1					RAILROAD XING
125.318																																			
X				W1-2L	36	X	36					10.0	4" Treated Wood Pole		5.0	4.3	3.0	14.2						9.0		16						1					CURVE ARROW-LEFT
125.352																																			
		X		R4-3	36	X	48					10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X		12.0			16					1					SLOWER TRAFFIC KEEP RIGHT
125.432																																			
		X		RA-3	12	X	18					ROW Boundary	2.0lb Steel U Post		3.0	1.5	3.0	7.5						1.5						15		1					ACCESS RESTRICTED
125.449																																			
X				BY OTHERS																																	LEFT AT LIGHT, **USE AS IS**
				BY OTHERS																																	LEFT 2, ROCKY MTN "HI" RV PARK, **USE AS IS**
				BY OTHERS																																	CHICK-FIL-A CLOSED SUNDAY, RIGHT 3 1/2, **USE AS IS**
125.462																																			
		X		BY OTHERS																																	PINE GROVE POND LEFT 1 MILE FISHING ACCESS, **USE AS IS**
125.494																																			
X				R3-9B	36	X	48					10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X		12.0			16					1					TWO-WAY LEFT ONLY
125.507									BBR																										
		X		W3-3	36	X	36				RSFO				5.0	4.1								9.0								1					SIGNAL AHEAD (symbol)
125.512																																			
		X		S1-1	36	X	36	FYG				10.0	4" Treated Wood Pole		5.0	4.1	3.0	14.1						6.8		16						1					SCHOOL CROSSING
				W16-9P	24	X	12	FYG																2.0												AHEAD
125.547									BBR																										
				W3-4	48	X	48				RSFO		Overhead Str Cantilever		17' Min.	7.6					X			16.0									1				BE PREPARED TO STOP
				W3-4P	30	X	24																	5.0												WHEN FLASHING

SHEET NO.
S2

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
L MOREY	06/2024	N THOLT	06/2024	R SCHROEDER	06/2024

10373000SISUM001.DWG

MONTANA
Department of Transportation

SIGNING PLANS

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SIGN LOCATION				SIGN PANEL SPECIFICATIONS							SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL SIGN INFORMATION	
REFERENCE POST		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)	FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET						BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				BREAKAWAY	REMV		RESET		SIGN IMAGE	SIGN TEXT & REMARKS
LFT	MDN	RGT			W X H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z	CANTILEVER			SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
125.567																																	
		X		W10-2R	36 X 36	FY	BBR		RSFO				5.0	5.8							9.0								1					INTERSECTION AND RR XING
				W10-5A	24 X 18	FY															3.0													RAILROAD XING
125.620																																	
X				R10-10L	24 X 30				RSFO		Overhead Str Cantilever								X		5.0								1					
125.620																																	
X				OH D3	60 X 12				RSFO		Overhead Str Cantilever			1.0					X		5.0									1				ROSE CROSSING
125.635																																	
		X		R10-10L	24 X 30						Overhead Str Cantilever								X		5.0													NEW - LEFT TURN SIGNAL
125.635																																	
		X		OH D3	60 X 12				RSFO		Overhead Str Cantilever			1.0					X		5.0									1				ROSE CROSSING
125.636																																	
		X		S1-1	36 X 36	FYG			RSFO				5.0	4.1							6.8								1					SCHOOL CROSSING
				W16-7PL	24 X 12	FYG															2.0													LT DOWN ARROW
125.637																																	
X				S1-1	36 X 36	FYG			RSFO				5.0	4.1							6.8								1					SCHOOL CROSSING
				W16-7PL	24 X 12	FYG															2.0													LT DOWN ARROW
125.675																																	
X				W10-2L	36 X 36	FY	BBR		RSFO				5.0	5.8							9.0								1					INTERSECTION AND RR XING
				W10-5B	24 X 18	FY															3.0													RAILROAD XING
125.725																																	
X				W3-4	48 X 48		BBR		RSFO		Overhead Str Cantilever		17' Min.	7.6					X		16.0								1					BE PREPARED TO STOP
				W3-4P	30 X 24																5.0													WHEN FLASHING

SHEET NO.
S3

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
L MOREY	06/2024	N THOLT	06/2024	R SCHROEDER	06/2024

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MONTANA
Department of Transportation

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SIGN LOCATION				SIGN PANEL SPECIFICATIONS							SIGN ASSEMBLY SPECIFICATIONS											SIGN ASSEMBLY QUANTITIES													ADDITIONAL SIGN INFORMATION	
REFERENCE POST		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)		FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET						CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				BREAKAWAY	REMV		RESET		SIGN IMAGE	SIGN TEXT & REMARKS
LFT	MDN	RGT			W X H						CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
125.742																																			
		X		R3-9B	36 X 48						10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X		12.0			16						1					TWO-WAY LEFT ONLY
125.765								BBR																											
X				W3-3	36 X 36					RSFO				5.0	4.1								9.0								1					SIGNAL AHEAD (symbol)
125.795																																			
X				S1-1	36 X 36		FYG				10.0	4" Treated Wood Pole		5.0	4.1	3.0	14.1						6.8		16							1					SCHOOL CROSSING
				W16-9P	24 X 12		FYG																2.0													REMOVE - 700 FT, NEW - AHEAD
125.835																																			
X				R3-9B	36 X 48						10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X		12.0			16						1					TWO-WAY LEFT ONLY
125.850																																			
X				BY OTHERS																																	PINE GROVE POND 1 MILE RIGHT FISHING ACCESS, **USE AS IS**
125.932																																			
		X		RA-3	12 X 18						ROW Boundary	2.0lb Steel U Post		3.0	1.5	3.0	7.5						1.5							15		1					ACCESS RESTRICTED
125.960								BBR																											
X				N6-1	72 X 30						10.0	4" Treated Wood Pole	3.7	5.0	2.5	3.0	12.4	13.0							15.0	28							1				ENTERING EVERGREEN
126.000																																			
X				D10-3	10 X 36						4.0	2.0lb Steel U Post		4.0	3.0	3.0	10.7						2.5							22		1					MILE 126
126.000																																			
		X		D10-3	10 X 36						4.0	2.0lb Steel U Post		4.0	3.0	3.0	10.7						2.5							22		1					MILE 126
126.013																																			
		X		N6-2a	42 X 18						10.0	4" Treated Wood Pole		5.0	1.5	3.0	11.5						5.3		12							1					TRUMBULL CREEK
126.026																																			
X				N6-2a	42 X 18						10.0	4" Treated Wood Pole		5.0	1.5	3.0	11.5						5.3		12							1					TRUMBULL CREEK
126.040																																			
X				R3-9B	36 X 48						10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X		12.0			16						1					TWO-WAY LEFT ONLY
126.126																																			
X				R2-1	36 X 48						10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X		12.0			16						1					SPEED LIMIT 55
126.126																																			
		X		R2-1	36 X 48						10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X		12.0			16						1					SPEED LIMIT 65
126.266																																			
		X		R3-9B	36 X 48						10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X		12.0			16						1					TWO-WAY LEFT ONLY
126.276								BBR																											
X				W3-5	48 X 48						10.0	5" Treated Wood Pole		5.0	5.4	3.5	16.1				X		16.0			18						1					REDUCED SPEED AHEAD
126.542																																			
X				R3-9B	36 X 48						10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X		12.0			16						1					TWO-WAY LEFT ONLY

SHEET NO.
S4

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
L.MOREY	06/2024	N.THOLT	06/2024	R.SCHROEDER	06/2024

MONTANA Department of Transportation

SIGNING PLANS

10373000SSUM001.DWG

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SIGN LOCATION				SIGN PANEL SPECIFICATIONS							SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL SIGN INFORMATION	
REFERENCE POST		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				BREAKAWAY	REMV		RESET		SIGN IMAGE	SIGN TEXT & REMARKS
LFT	MDN	RGT			W	X	H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
126.572																																			
		X		W8-6a	36	X	36		BBR			10.0	4" Treated Wood Pole		5.0	4.3	3.0	14.2						9.0		16							1				TRUCKS ENTERING
126.772																																			
		X		R3-9B	36	X	48					10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X		12.0			16						1				TWO-WAY LEFT ONLY
126.793																																			
X				W8-6a	36	X	36		BBR			10.0	4" Treated Wood Pole		5.0	4.3	3.0	14.2						9.0		16							1				TRUCKS ENTERING
127.000																																			
X				D10-3	10	X	36					4.0	2.0lb Steel U Post		4.0	3.0	3.0	10.7						2.5							22		1				MILE 127
127.000																																			
		X		D10-3	10	X	36					4.0	2.0lb Steel U Post		4.0	3.0	3.0	10.7						2.5							22		1				MILE 127
127.000																																			
		X		N7-1	36	X	48					20.0	5" Treated Wood Pole		5.0	5.1	3.5	17.2				X		12.0			18						1				ADOPT A HIGHWAY
				N7-1P	36	X	12																	3.0												TRINITY LUTHERAN SCHOOL
127.000																																			
X				N7-1	36	X	48					20.0	5" Treated Wood Pole		5.0	6.2	3.5	18.2				X		12.0			20						1				ADOPT A HIGHWAY
				N7-1P	36	X	12																	3.0												KALISPELL REGIONAL MEDICAL CENTER
				N7-1P	36	X	12																	3.0												N.A.R.F.E. CHAPTER 464
127.454																																			
		X		RA-3	12	X	18					ROW Boundary	2.0lb Steel U Post		3.0	1.5	3.0	7.5						1.5							15		1				ACCESS RESTRICTED
127.703																																			
X				RA-3	12	X	18					ROW Boundary	2.0lb Steel U Post		3.0	1.5	3.0	7.5						1.5							15		1				ACCESS RESTRICTED
127.743																																			
X				D3 (2x)	36	X	10			MBB	RSFO				5.0									5.0									1				LEGEND TRL
				R1-1	36	X	36				RSFO													7.5												STOP
128.000																																			
X				D10-3	10	X	36					4.0	2.0lb Steel U Post		4.0	3.0	3.0	10.7						2.5							22		1				MILE 128

SHEET NO.
S5

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME ROSE XING TO GLACIER AIRPORT
COUNTY FLATHEAD
PROJECT ID NH 1-2(252)125
UPN 10373000

DESIGNED BY	06/2024
L MOREY	
REVIEWED BY	06/2024
N THOLT	
CHECKED BY	06/2024
R SCHROEDER	

MONTANA Department of Transportation

SIGNING PLANS

12/5/2024 2:02 PM

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Docusign Envelope ID: F570513E-B961-4103-B538-E3922C582FE0

SIGN LOCATIONS AND SPECIFICATIONS

SIGN LOCATION				SIGN PANEL SPECIFICATIONS							SIGN ASSEMBLY SPECIFICATIONS											SIGN ASSEMBLY QUANTITIES												ADDITIONAL SIGN INFORMATION	
REFERENCE POST		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				BREAKAWAY	REMV		RESET		SIGN IMAGE	SIGN TEXT & REMARKS
LFT	MDN	RGT			W	X	H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
128.000																																			
		X		D10-3	10	X	36					4.0	2.0lb Steel U Post		4.0	3.0	3.0	10.7						2.5							22		1				MILE 128	MILE 128
128.070																																			
		X		R4-3	36	X	48					10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X		12.0			16					1				SLOWER TRAFFIC KEEP RIGHT	SLOWER TRAFFIC KEEP RIGHT
128.145									BBR																										
		X		W3-3	36	X	36				RSFO				5.0	5.7								9.0								1				SIGNAL AHEAD (symbol)	SIGNAL AHEAD (symbol)
128.155																																			
X				R4-3	36	X	48					10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X		12.0			16					1				SLOWER TRAFFIC KEEP RIGHT	SLOWER TRAFFIC KEEP RIGHT
128.185									BBR																										
		X		W3-4	48	X	48				RSFO		Overhead Str Cantilever		17' Min.	7.6					X			16.0								1				BE PREPARED TO STOP	BE PREPARED TO STOP
				W3-4P	30	X	24																	5.0												WHEN FLASHING	WHEN FLASHING
128.191																																			
X				RA-3	12	X	18					ROW Boundary	2.0lb Steel U Post		3.0	1.5	3.0	7.5						1.5							15		1				ACCESS RESTRICTED	ACCESS RESTRICTED
128.236									BBR																										
		X		W10-2R	36	X	36	FY			RSFO				5.0	5.8								9.0								1				INTERSECTION AND RR XING	INTERSECTION AND RR XING
				W10-5A	24	X	18	FY																3.0												RAILROAD XING	RAILROAD XING
128.285																																			
X				R10-10L	24	X	30				RSFO		Overhead Str Cantilever		2.5						X			5.0								1				LEFT TURN SIGNAL	
128.285																																			
X				OH D3	84	X	24				RSFO		Overhead Str Cantilever		2.0						X			14.0								1				E BIRCH GROVE RD / W BIRCH GROVE RD	LEFT E BIRCH GROVE RD, W BIRCH GROVE RD RIGHT
128.306																																			
		X		R10-10L	24	X	30						Overhead Str Cantilever		2.5						X			5.0												LEFT TURN SIGNAL	NEW - LEFT TURN SIGNAL
128.306																																			
		X		OH D3	84	X	24				RSFO		Overhead Str Cantilever		2.0						X			14.0								1				W BIRCH GROVE RD / E BIRCH GROVE RD	LEFT W BIRCH GROVE RD, E BIRCH GROVE RD RIGHT
128.351									BBR																										
X				W10-2L	36	X	36	FY			RSFO				5.0	5.8								9.0								1				INTERSECTION AND RR XING	INTERSECTION AND RR XING
				W10-5B	24	X	18	FY																3.0												RAILROAD XING	RAILROAD XING

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY: L MOREY 06/2024
REVIEWED BY: N THOLT 06/2024
CHECKED BY: R SCHROEDER 06/2024

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MONTANA Department of Transportation

SIGNING PLANS

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SIGN LOCATION				SIGN PANEL SPECIFICATIONS							SIGN ASSEMBLY SPECIFICATIONS											SIGN ASSEMBLY QUANTITIES														ADDITIONAL SIGN INFORMATION	
REFERENCE POST		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET							CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				BREAKAWAY	REMV		RESET		SIGN IMAGE	SIGN TEXT & REMARKS
LFT	MDN	RGT			W	X	H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
128.411																																					
X				W3-4	48	X	48		BBR		RSFO		Overhead Str Cantilever		17' Min.	7.6					X			16.0										1			BE PREPARED TO STOP
				W3-4P	30	X	24																	5.0													WHEN FLASHING
128.422																																					
X				R1-1	36	X	36				RSFO				5.0	3.0								7.5								1					STOP
128.432																																					
X				R5-1	36	X	36				RSFO				5.0	3.0								9.0								1					DO NOT ENTER
128.456									BBR																												
X				W3-3	36	X	36				RSFO				5.0	5.7								9.0								1					SIGNAL AHEAD (symbol)
128.456																																					
		X		RA-3	12	X	18					ROW Boundary	2.0lb Steel U Post		3.0	1.5	3.0	7.5					1.5						15		1					ACCESS RESTRICTED
128.471																																					
X				BY OTHERS																																		FISHING ACCESS LEFT, **USE AS IS**
128.705																																					
X				RA-3	12	X	18					ROW Boundary	2.0lb Steel U Post		3.0	1.5	3.0	7.5					1.5						15		1					ACCESS RESTRICTED
128.756																																					
		X		R2-1	36	X	48					10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X	12.0			16					1					SPEED LIMIT 65
128.797																																					
X				R2-1	36	X	48					10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X	12.0			16					1					SPEED LIMIT 65
128.946																																					
		X		RA-3	12	X	18					ROW Boundary	2.0lb Steel U Post		3.0	1.5	3.0	7.5					1.5						15		1					ACCESS RESTRICTED
128.953																																					
X				R1-1	36	X	36				RSFO				5.0	3.0								7.5								1					STOP
128.966																																					
		X		D3 (2x)	30	X	10			MBB		6.0	4" Treated Wood Pole		5.0	0.9	3.0	10.1					4.2		12						1					GRIGG RD
129.000																																					
		X		D10-3	10	X	36					4.0	2.0lb Steel U Post		4.0	3.0	3.0	10.7					2.5						22		1					MILE 129
129.024																																					
X				D10-3	10	X	36					4.0	2.0lb Steel U Post		4.0	3.0	3.0	10.7					2.5						22		1					MILE 129
129.098																																					
		X		I-5	24	X	24					10.0	4" Treated Wood Pole		5.0	3.2	3.0	12.9					4.0		14						1					AIRPORT
				I-5A	24	X	6																	1.0													AIRPORT
				I-5bL	24	X	6																	1.0													LT ARROW

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
L MOREY	06/2024	N THOLT	06/2024	R SCHROEDER	06/2024

MONTANA Department of Transportation

SIGNING PLANS

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SIGN LOCATION				SIGN PANEL SPECIFICATIONS							SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL SIGN INFORMATION	
REFERENCE POST		DIRECTION	RAMP NO.	SIGN NO. (MUTCD)	PANEL SIZE (INCHES)			FY OR FYG	BACK BRACING REQ'D ANGLE IRON REQ'D	MOUNT BACK TO BACK	REPLACE SIGN FACE ONLY	FEET	TYPE OF SUPPORT	FEET						CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				BREAKAWAY	REMV		RESET		SIGN IMAGE	SIGN TEXT & REMARKS
LFT	MDN	RGT			W	X	H					CLEARANCE/OFFSET (SHOULDER TO EDGE OF SIGN)		SIGN SUPPORT SPACING	MOUNTING HEIGHT	SIGN HEIGHT + GAPS	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED) X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
129.266																																			
X				R3-9B	36	X	48					10.0	5" Treated Wood Pole		5.0	4.0	3.5	14.4				X		12.0			16					1					TWO-WAY LEFT ONLY
PROJECT TOTALS																							635.6	15.0	158	326				296		62	9		

SHEET NO.
S8

SIGN LOCATIONS AND SPECIFICATIONS

MONTANA
Department of Transportation

SIGNING PLANS

DESIGNED BY	L MOREY	06/2024
REVIEWED BY	N THOLT	06/2024
CHECKED BY	R SCHROEDER	06/2024

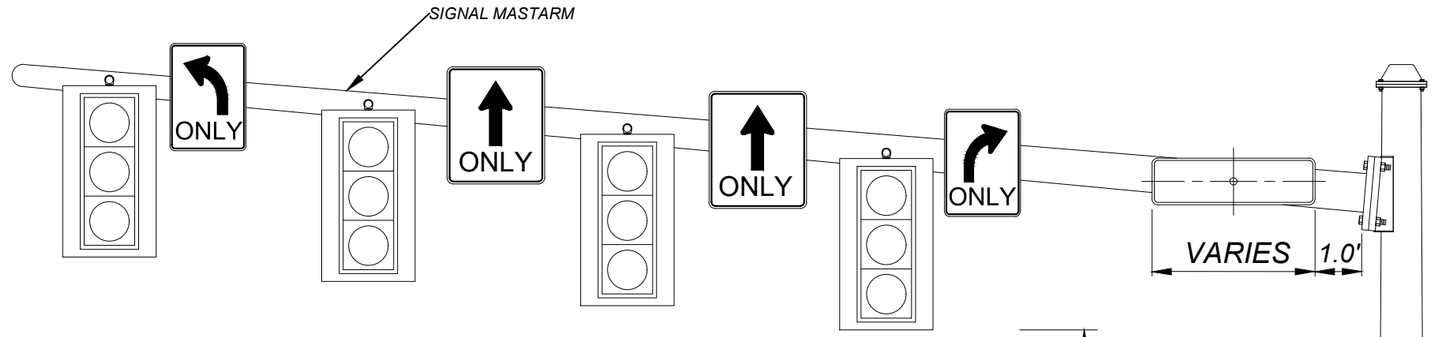
PROJECT NAME: **ROSE XING TO GLACIER AIRPORT**
COUNTY: **FLATHEAD**
PROJECT ID: **NH 1-2(252)125**
UPN: **10373000**

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D3 AND LANE CONTROL SIGNING OVERHEAD DETAIL

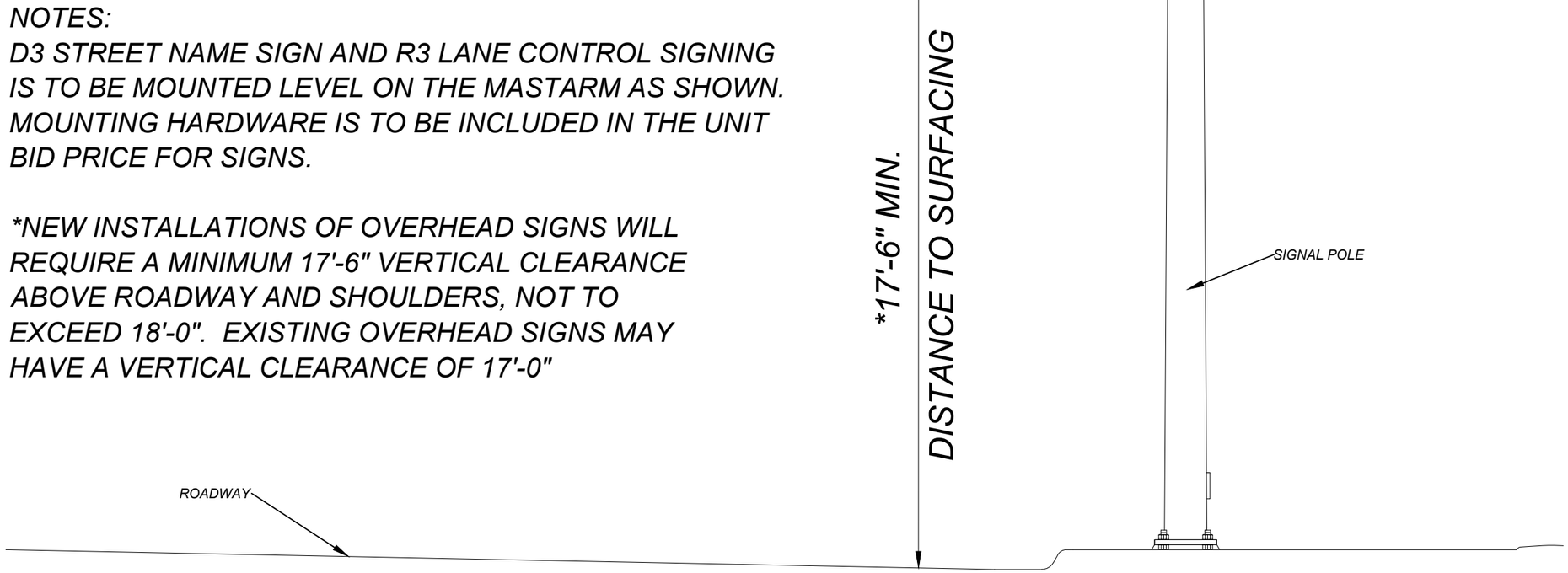
NO SCALE



NOTES:

D3 STREET NAME SIGN AND R3 LANE CONTROL SIGNING IS TO BE MOUNTED LEVEL ON THE MASTARM AS SHOWN. MOUNTING HARDWARE IS TO BE INCLUDED IN THE UNIT BID PRICE FOR SIGNS.

*NEW INSTALLATIONS OF OVERHEAD SIGNS WILL REQUIRE A MINIMUM 17'-6" VERTICAL CLEARANCE ABOVE ROADWAY AND SHOULDERS, NOT TO EXCEED 18'-0". EXISTING OVERHEAD SIGNS MAY HAVE A VERTICAL CLEARANCE OF 17'-0"



SHEET NO.
S9

DETAIL

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY		REVIEWED BY		CHECKED BY	
L MOREY	06/2024	N THOLT	06/2024	R SCHROEDER	06/2024

10373000SIGSUM001.DWG

MONTANA
Department of Transportation

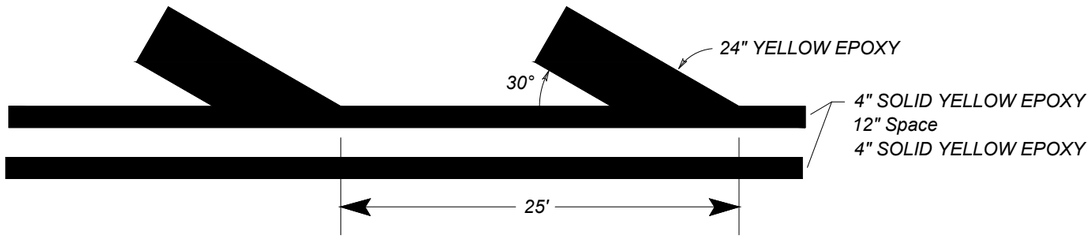
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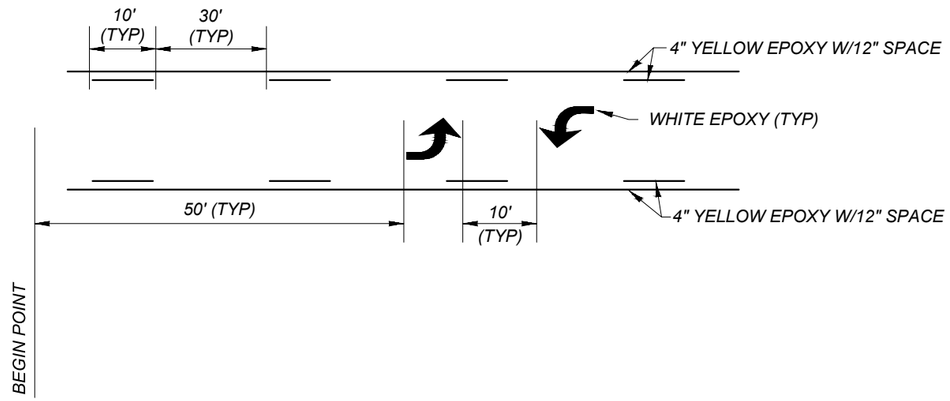
YELLOW PAINTED MEDIAN DETAIL

NO SCALE



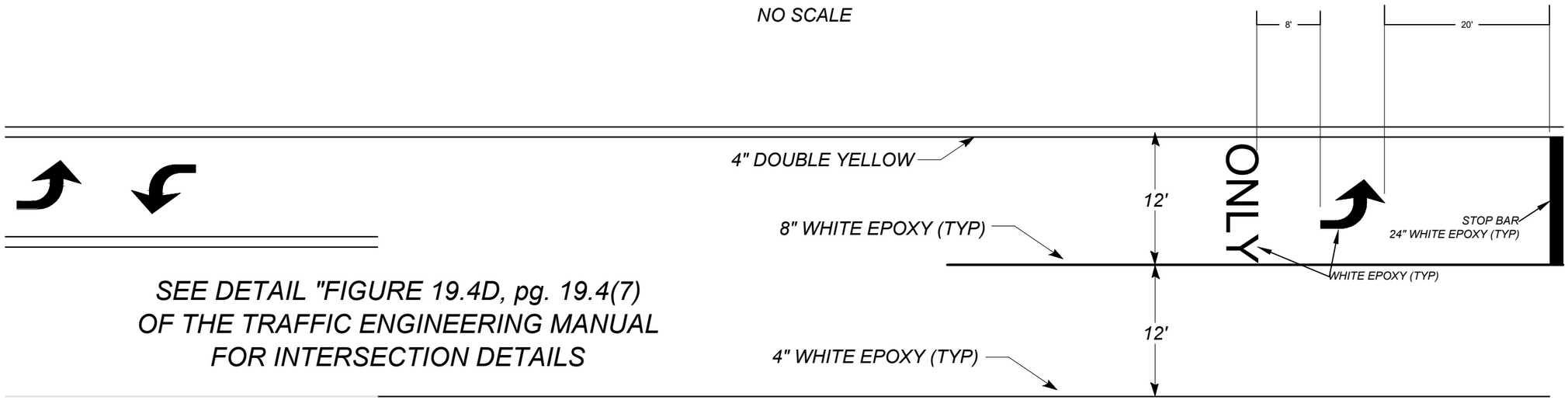
RURAL TWO WAY LEFT TURN
TYPICAL PAVEMENT MARKINGS

NOT TO SCALE



TYPICAL PAVEMENT MARKINGS
TWLTL / TURN LANE WORDS & SYMBOLS

NO SCALE



SEE DETAIL "FIGURE 19.4D, pg. 19.4(7)
OF THE TRAFFIC ENGINEERING MANUAL
FOR INTERSECTION DETAILS

SHEET NO.
S10

DETAIL

PROJECT NAME ROSE XING TO GLACIER AIRPORT
COUNTY FLATHEAD
PROJECT ID NH 1-2(252)125
UPN 10373000

DESIGNED BY	06/2024
L.MOREY	
REVIEWED BY	06/2024
N.THOLT	
CHECKED BY	06/2024
R.SCHROEDER	

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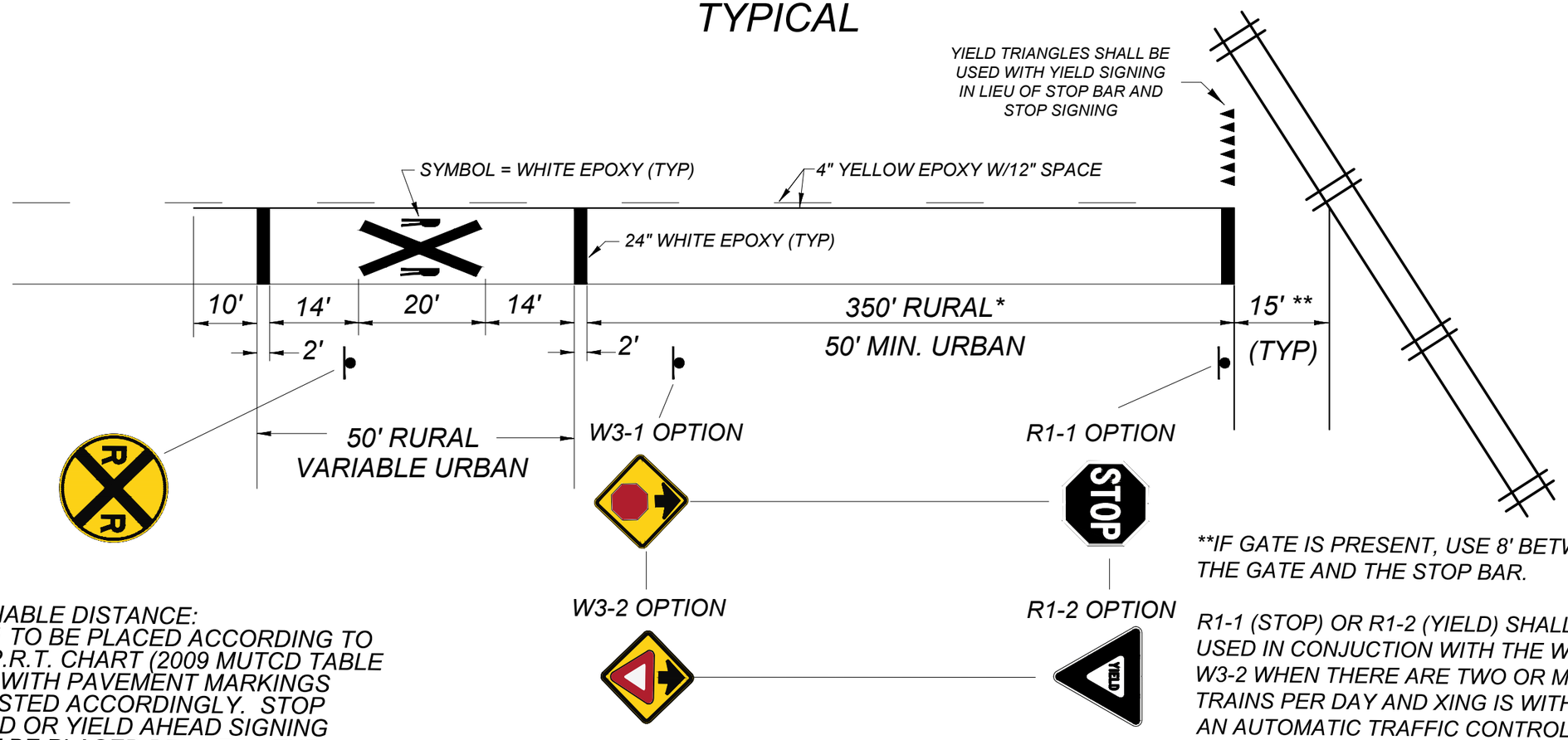
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RAILROAD CROSSING SIGNING & PAVEMENT MARKINGS TYPICAL



* VARIABLE DISTANCE:
W10-1 TO BE PLACED ACCORDING TO THE P.R.T. CHART (2009 MUTCD TABLE 2C-4) WITH PAVEMENT MARKINGS ADJUSTED ACCORDINGLY. STOP AHEAD OR YIELD AHEAD SIGNING MUST BE PLACED BETWEEN THE W10-1 RAILROAD SIGN AND THE STOP SIGN

**IF GATE IS PRESENT, USE 8' BETWEEN THE GATE AND THE STOP BAR.

R1-1 (STOP) OR R1-2 (YIELD) SHALL BE USED IN CONJUCTION WITH THE W3-1 OR W3-2 WHEN THERE ARE TWO OR MORE TRAINS PER DAY AND XING IS WITHOUT AN AUTOMATIC TRAFFIC CONTROL DEVICE.

ON MULTI-LANE ROADS, THE TRANSVERSE BARS SHOULD EXTEND ACROSS THE APPROACH LANES AND INDIVIDUAL R X R CROSSING SIGNS SHOULD BE USED IN EACH APPROACH LANE.

SHEET NO.
S11

DETAIL

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY		REVIEWED BY		CHECKED BY	
L MOREY	06/2024	N THOLT	06/2024	R SCHROEDER	06/2024

10373000SIGSUM001.DWG

MONTANA
Department of Transportation

SIGNING PLANS

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129+94
130+00
BP 129+93.63
140+00
150+00

RP: 125.273
Assembly Status:Replace
Ref Stationing:130+41.00
Sign Name:W1-8L

RP: 125.288
RSFO
Ref Stationing:131+14.00
Sign Name:W10-1

RP: 125.318
Assembly Status:Replace
Ref Stationing:132+72.00
Sign Name:W1-2L

Intermountain Homes

GSF Inc.

RP: 125.449
USE AS IS
Ref Stationing:139+77.00
Sign Name:ByOthers_1
Sign Name:ByOthers_2
Sign Name:ByOthers_3

RP: 125.494
Assembly Status:Replace
Ref Stationing:142+04.00
Sign Name:R3-9b

T 28N R 21W
SEC. 28

RP: 125.276
Assembly Status:Replace
Ref Stationing:130+65.00
Sign Name:R3-9b

RP: 125.352
Assembly Status:Replace
Ref Stationing:134+45.00
Sign Name:R4-3

RP: 125.432
Assembly Status:Replace
Ref Stationing:139+24.00
Sign Name:R4-3

RP: 125.462
USE AS IS
Ref Stationing:140+22.00
Sign Name:MT_FAP

RP: 125.507
RSFO
Ref Stationing:142+65.00
Sign Name:W3-3

RP: 125.512
Assembly Status:Replace
Ref Stationing:143+00.00
Sign Name:S1-1
Sign Name:W16-9P

RP: 125.547
RSFO
Ref Stationing:144+69.00
Sign Name:W3-4
Sign Name:W3-4p

RP: 125.567
RSFO
Ref Stationing:145+82.00
Sign Name:W10-5
Sign Name:W10-2R

RP: 125.620
RSFO
Ref Stationing:148+59.00
Sign Name:OHD3_RoseCrossing

RP: 125.620
RSFO
Ref Stationing:148+59.00
Sign Name:R10-10L

RP: 125.635
NEW - NEXT TO TURN SIGNAL
Ref Stationing:149+87.00
Sign Name:R10-10L

RP: 125.635
RSFO
Ref Stationing:149+87.00
Sign Name:OHD3_RoseCrossing

RP: 125.637
RSFO
Ref Stationing:150+00.00
Sign Name:S1-1
Sign Name:SW16-7PL

RP: 125.636
RSFO
Ref Stationing:149+95.00
Sign Name:S1-1
Sign Name:SW16-7PL

RP: 125.675
RSFO
Ref Stationing:151+58.00
Sign Name:W10-2L
Sign Name:W10-5

RP: 125.725
RSFO
Ref Stationing:154+37.00
Sign Name:W3-4
Sign Name:W3-4p

RP: 125.742
Assembly Status:Replace
Ref Stationing:155+00.00
Sign Name:R3-9b

RP: 125.765
RSFO
Ref Stationing:156+44.00
Sign Name:W3-3

RP: 125.795
Assembly Status:Replace
Ref Stationing:157+90.00
Sign Name:S1-1
Sign Name:W16-9P

MaCon Supply

Core & Main

T 28N R 21W
SEC. 28, 21

SHEET NO.
S12

PLAN SHEET

MONTANA
Department of Transportation

SIGNING PLANS

7/16/2024 1:33 PM

DESIGNED BY	L MOREY	06/2024
REVIEWED BY	N THOLT	06/2024
CHECKED BY	R SCHROEDER	06/2024

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000
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160+00

RP: 125.835
Assembly Status:Replace
Ref Stationing:159+97.00
Sign Name:R3-9b

RP: 125.850
USE AS IS
Ref Stationing:160+90.00
Sign Name:MT_FAP

Badger Building Center

RP: 125.960
Assembly Status:Replace
Ref Stationing:166+65.00
Sign Name:N6-1a_Evergreen

BLACK GOLD DR

RP: 126.000
Assembly Status:Replace
Ref Stationing:168+28.00
Sign Name:D10-3 (126)

RP: 126.026
Assembly Status:Replace
Ref Stationing:169+72.00
Sign Name:N6-2a_TrumbullCreek

170+00

RP: 126.040
Assembly Status:Replace
Ref Stationing:170+48.00
Sign Name:R3-9b

RP: 126.126
Assembly Status:Replace
Ref Stationing:174+86.00
Sign Name:R2-1 (55)

T. 28N R. 21W
SEC. 21

RP: 125.932
Assembly Status:Replace
Ref Stationing: 165+30.00
Sign Name:RA-3

RP: 126.000
Assembly Status:Replace
Ref Stationing:168+28.00
Sign Name:D10-3 (126)

RP: 126.013
Assembly Status:Replace
Ref Stationing:169+58.00
Sign Name:N6-2a_TrumbullCreek

RP: 126.126
Assembly Status:Replace
Ref Stationing:174+86.00
Sign Name:R2-1 (65)

180+00

Great Northern Granite

RP: 126.276
Assembly Status:Replace
Ref Stationing:182+72.00
Sign Name:W3-5

T. 28N R. 21W
SEC. 21

RP: 126.266
Assembly Status:Replace
Ref Stationing:182+17.00
Sign Name:R3-9b

SHEET NO.
S13

PLAN SHEET

MONTANA
Department of Transportation

SIGNING PLANS

7/16/2024 1:33 PM

DESIGNED BY	L MOREY	06/2024
REVIEWED BY	N THOLT	06/2024
CHECKED BY	R SCHROEDER	06/2024

10373000SIPLN001.DWG

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

Docusign Envelope ID: F570513E-B961-4103-B538-E3922C582FE0

AWARD COPY

190+00

200+00

210+00

Blue Dog RV

Cenex Fuel

Knife River Corp.

Apple Barrel Country Market

Sacred Waters Brewing Company

BOBCAT LN

RP: 126.542
Assembly: Status:Replace
Ref: Stationing:196+73.00
Sign Name:R3-9b

RP: 126.572
Assembly: Status:Replace
Ref: Stationing:198+25.00
Sign Name:W8-6a

RP: 126.793
Assembly: Status:Replace
Ref: Stationing:210+04.00
Sign Name:W8-6a

RP: 126.772
Assembly: Status:Replace
Ref: Stationing:208+75.00
Sign Name:R3-9b

T 29N R 21W
SEC. 21, 16, 15

T 29N R 21W
SEC. 15

SHEET NO.
S14

PLAN SHEET

MONTANA
Department of Transportation

SIGNING PLANS

7/16/2024 1:33 PM

DESIGNED BY	L MOREY	06/2024
REVIEWED BY	N THOLT	06/2024
CHECKED BY	R SCHROEDER	06/2024

PROJECT NAME	ROSE XING TO GLACIER AIRPORT
COUNTY	FLATHEAD
PROJECT ID	NH 1-2(252)125
UPN	10373000

10373000SIPLN001.DWG

Docusign Envelope ID: F570513E-B961-4103-B538-E3922C582FE0

AWARD COPY

220+00

230+00

240+00

Countryside Welding

Darlington Cremation and Burial Service

Fastoys

T. 28N R. 21W SEC. 15

RP: 127.000
Assembly Status:Replace
Ref Stationing:220+44.00
Sign Name:D10-3 (127)

RP: 127.454
Assembly Status:Replace
Ref Stationing:243+93.59
Sign Name:RA-3

Adopt A Highway
Keep It Green
Keep It Clean

Sign Name:N7-1

Sign Name:N7-2P_KRMC

Sign Name:N7-2P_NARFECH464

Sign Name:N7-2P_TrinitySchool

SHEET NO.	S15
PLAN SHEET	
PROJECT NAME	ROSE XING TO GLACIER AIRPORT
COUNTY	FLATHEAD
PROJECT ID	NH 1-2(252)125
UPN	10373000

DESIGNED BY	DATE
L.MOREY	06/2024
REVIEWED BY	DATE
N.THOLT	06/2024
CHECKED BY	DATE
R.SCHROEDER	06/2024

MONTANA
Department of Transportation

SIGNING PLANS

10373000SIPLN001.DWG

7/16/2024 1:33 PM

Docusign Envelope ID: F570513E-B961-4103-B538-E3922C582FE0

AWARD COPY

250+00

260+00

270+00

Legend Trail Storage

Central Valley Animal Hospital

T. 28N R. 21W SEC. 15, 10

T. 28N R. 21W SEC. 10

STOP

Sign Name:R1-1

Sign Name:D3_Legend1ri

RP: 127.743
RSPO - BOTH ON STOP SIGN POST
Ref Stationing:259+76.00

LEGEND TRL

RP: 127.703
Assembly Status:Replace
Ref Stationing:258+53.00

Sign Name:RA-3

RP: 128.000
Assembly Status:Replace
Ref Stationing:272+73.00

Sign Name:D10-3 (128)

RP: 128.000
Assembly Status:Replace
Ref Stationing:272+13.00

Sign Name:D10-3 (128)

SLOWER TRAFFIC KEEP RIGHT

RP: 128.070
Assembly Status:Replace
Ref Stationing:276+41.00

Sign Name:R4-3

SHEET NO.
S16

PLAN SHEET

MONTANA
Department of Transportation

SIGNING PLANS

7/16/2024 1:33 PM

DESIGNED BY		PROJECT NAME	ROSE XING TO GLACIER AIRPORT
L.MOREY	06/2024	COUNTY	FLATHEAD
REVIEWED BY			
N.THOLT	06/2024	PROJECT ID	NH 1-2(252)125
CHECKED BY			
R.SCHROEDER	06/2024	UPN	10373000

10373000SIPLN001.DWG

Docusign Envelope ID: F570513E-B961-4103-B538-E3922C582FE0

AWARD COPY

280+00

290+00

300+00

RP: 128.155
Assembly Status: Replace
Ref Stationing: 281+08.00
Sign Name: R4-3

SLOWER TRAFFIC KEEP RIGHT

RP: 128.191
Assembly Status: Replace
Ref Stationing: 282+90.01
Sign Name: RA-3

Jagz

RP: 128.285
RSFO
Ref Stationing: 288+07.00
Sign Name: OH03_EBirch

E BIRCH GROVE RD
W BIRCH GROVE RD

RP: 128.285
RSFO
Ref Stationing: 288+07.00
Sign Name: R10-10L

LEFT TURN SIGNAL

RP: 128.351
RSFO
Ref Stationing: 291+32.00
Sign Name: W10-2L

Sign Name: W10-5

RP: 128.411
RSFO
Ref Stationing: 294+63.00
Sign Name: W3-4

Sign Name: W3-4p

BE PREPARED TO STOP

WHEN FLASHING

T. 28N
R. 21W
SEC. 10

RP: 128.145
RSFO
Ref Stationing: 280+50.00
Sign Name: W3-3

WHEN FLASHING

BE PREPARED TO STOP

RP: 128.185
RSFO
Ref Stationing: 282+51.00
Sign Name: W3-4
Sign Name: W3-4p

RP: 128.236
RSFO
Ref Stationing: 285+20.00
Sign Name: W10-2R
Sign Name: W10-5

RP: 128.306
NEW - NEXT TO TURN SIGNAL
Ref Stationing: 288+96.00
Sign Name: R10-10L

LEFT TURN SIGNAL

W BIRCH GROVE RD
E BIRCH GROVE RD

RP: 128.306
RSFO
Ref Stationing: 288+96.00
Sign Name: OH03_WBirch

Tri-City Auto & Wrecking

Seaman Homes

RP: 128.422
RSFO
Ref Stationing: 295+48.00
Sign Name: R1-1

STOP

RP: 128.432
RSFO
Ref Stationing: 295+92.00
Sign Name: R5-1

DO NOT ENTER

RP: 128.456
RSFO
Ref Stationing: 296+75.00
Sign Name: W3-3

RP: 128.471
USE AS IS
Ref Stationing: 297+64.00
Sign Name: MT_FAP

RP: 128.456
Assembly Status: Replace
Ref Stationing: 296+80.00
Sign Name: RA-3

SHEET NO.
S17

PLAN SHEET

MONTANA
Department of Transportation

SIGNING PLANS

DESIGNED BY	L MOREY	06/2024
REVIEWED BY	N THOLT	06/2024
CHECKED BY	R SCHROEDER	06/2024

7/16/2024 1:33 PM

PROJECT NAME	ROSE XING TO GLACIER AIRPORT
COUNTY	FLATHEAD
PROJECT ID	NH 1-2(252)125
UPN	10373000

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Docusign Envelope ID: F570513E-B961-4103-B538-E3922C582FE0

AWARD COPY

310+00

RP: 128.705
Assembly Status: Replace
Ref Stationing: 310+14.00
Sign Name: RA-3

RP: 128.797
Assembly Status: Replace
Ref Stationing: 314+81.00
Sign Name: R2-1 (65)

SPEED LIMIT 65

320+00

RP: 128.953
Ref Stationing: 323+03.00
Sign Name: R1-1

STOP

T. 29N R. 21W
SEC. 10, 03

RP: 129.000
Assembly Status: Replace
Ref Stationing: 324+37.00
Sign Name: D10-3 (129)

RP: 128.966
Assembly Status: Replace
Ref Stationing: 323+86.00
Sign Name: D3_GrigsRd

RP: 128.946
Assembly Status: Replace
Ref Stationing: 323+05.00
Sign Name: RA-3

RP: 128.756
Assembly Status: Replace
Ref Stationing: 312+94.00
Sign Name: R2-1 (65)

SPEED LIMIT 65

330+00

RP: 129.266
Assembly Status: Replace
Ref Stationing: 338+25.00
Sign Name: R3-9b

CENTER LANE ONLY

T. 29N R. 21W
SEC. 03

MCS SCALE SITE

RP: 129.098
Assembly Status: Replace
Ref Stationing: 329+67.00
Sign Name: I-5

AIRPORT

Sign Name: I-5A

Sign Name: I-5DL

Continue existing pavement markings to EOP (Approx. 30 ft)

SHEET NO.
S18

PLAN SHEET

MONTANA
Department of Transportation

SIGNING PLANS

7/16/2024 1:33 PM

PROJECT NAME	ROSE XING TO GLACIER AIRPORT	
COUNTY	FLATHEAD	
PROJECT ID	NH 1-2(252)125	
UPN	10373000	

DESIGNED BY	L MOREY	06/2024
REVIEWED BY	N THOLT	06/2024
CHECKED BY	R SCHROEDER	06/2024

10373000SIPLN001.DWG

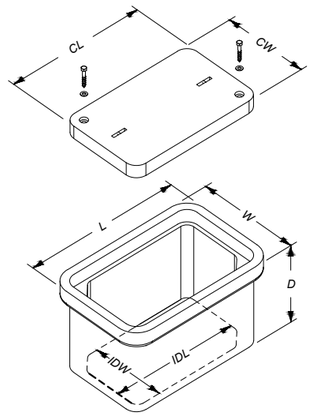
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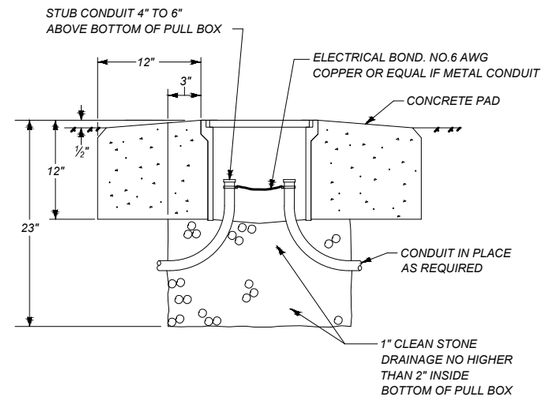
AWARD COPY

ELECTRICAL QUANTITY SUMMARY

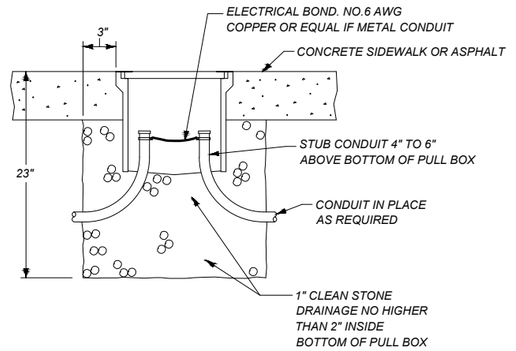
ITEM NO.	MATERIAL	TOTAL	UNIT
616 343 920	CONDUIT-PLASTIC 2 IN	384	LNFT
616 343 930	CONDUIT-PLASTIC 3 IN	86	LNFT
616 783 007	PULL BOX-COMPOSITE TYPE 2	6	EACH
617 000 000	FOUNDATION-CONCRETE	0.5	CUYD
617 033 314	CABLE-COPPER 5AWG14-600V	435	LNFT
617 123 110	CONDUCTOR-COPPER AWG10-600V	27	LNFT
617 553 020	SIG-PEDESTRIAN TYPE 2	6	EACH
617 673 100	SIG STANDARD TYPE 1-100	2	EACH
617 763 500	DETECTOR-RADAR/PRESENCE	6	EACH
617 763 510	DETECTOR-RADAR/ADVANCE	4	EACH
617 781 000	REMOVE AND SALVAGE MISC. ELECTRICAL	1	LS
617 903 255	PUSH BUTTON-PEDESTRIAN-TACTILE	2	EACH

PULL BOX - COMPOSITE MINIMUM DIMENSIONS		
TYPE 1	TYPE 2	TYPE 3
L = 20"	L = 25"	L = 32"
W = 13"	W = 15"	W = 19"
D = 12"	D = 12"	D = 12"
I D L = 17"	I D L = 21"	I D L = 28"
I D W = 10"	I D W = 11"	I D W = 15"
C L = 18"	C L = 23"	C L = 30"
C W = 11"	C W = 13"	C W = 17"





PULL BOX INSTALLED IN DIRT



PULL BOX INSTALLED IN A SIDEWALK OR ASPHALT

PULL BOX-COMPOSITE

TYPE 1,2 & 3

NO SCALE

SHEET NO.
E1

ELECTRICAL QUANTITY SUMMARY & SIGNAL DETAILS

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY	REVIEWED BY	CHECKED BY
L. HARK 9/2024	J. DOLD 10/2024	D. CUNNINGHAM 11/2024

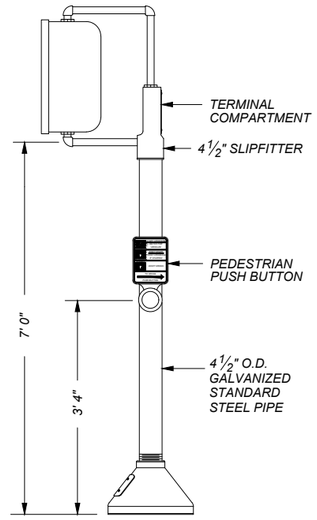
MONTANA Department of Transportation

ELECTRICAL PLANS

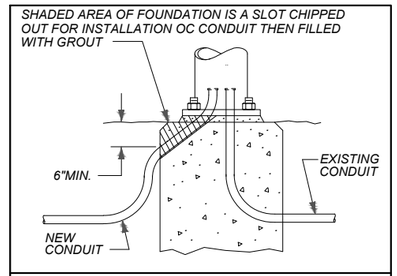
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10/30/2024 12:37 PM

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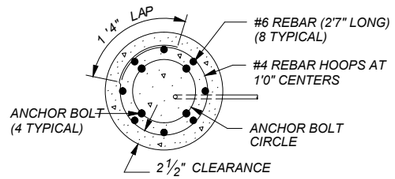


TYPE I-I00

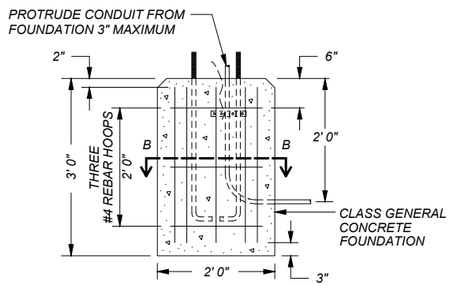


INSTALLATION OF CONDUIT INTO EXISTING POLE BASE

USE GRADE 60 REINFORCING STEEL



SECTION B-B

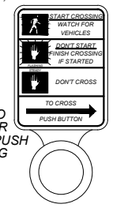


TYPE I-I20 & I-I00

ARROW TO BE LEFT OR RIGHT, OR BOTH AS REQUIRED.

5" x 7¾" ALUMINUM SIGN, BLACK LETTERS ON WHITE BACKGROUND.

BACK OF CASTING SHAPED TO FIT CURVATURE OF POST. FOR MOUNTING ON PEDESTRIAN PUSH BUTTON POST, FORM CASTING TO FIT TOP OF POST.



PEDESTRIAN PUSH BUTTON

TYPICAL OF FOUNDATIONS

TYPE I SIGNAL STANDARDS, FOUNDATION DETAILS & PEDESTRIAN PUSH BUTTONS

NO SCALE

SHEET NO. E2

SIGNAL DETAILS

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY	DATE
L. HARK	9/2024
REVIEWED BY	DATE
J. DOLD	10/2024
CHECKED BY	DATE
D. CUNNINGHAM	11/2024

10373000ELDET001.DWG

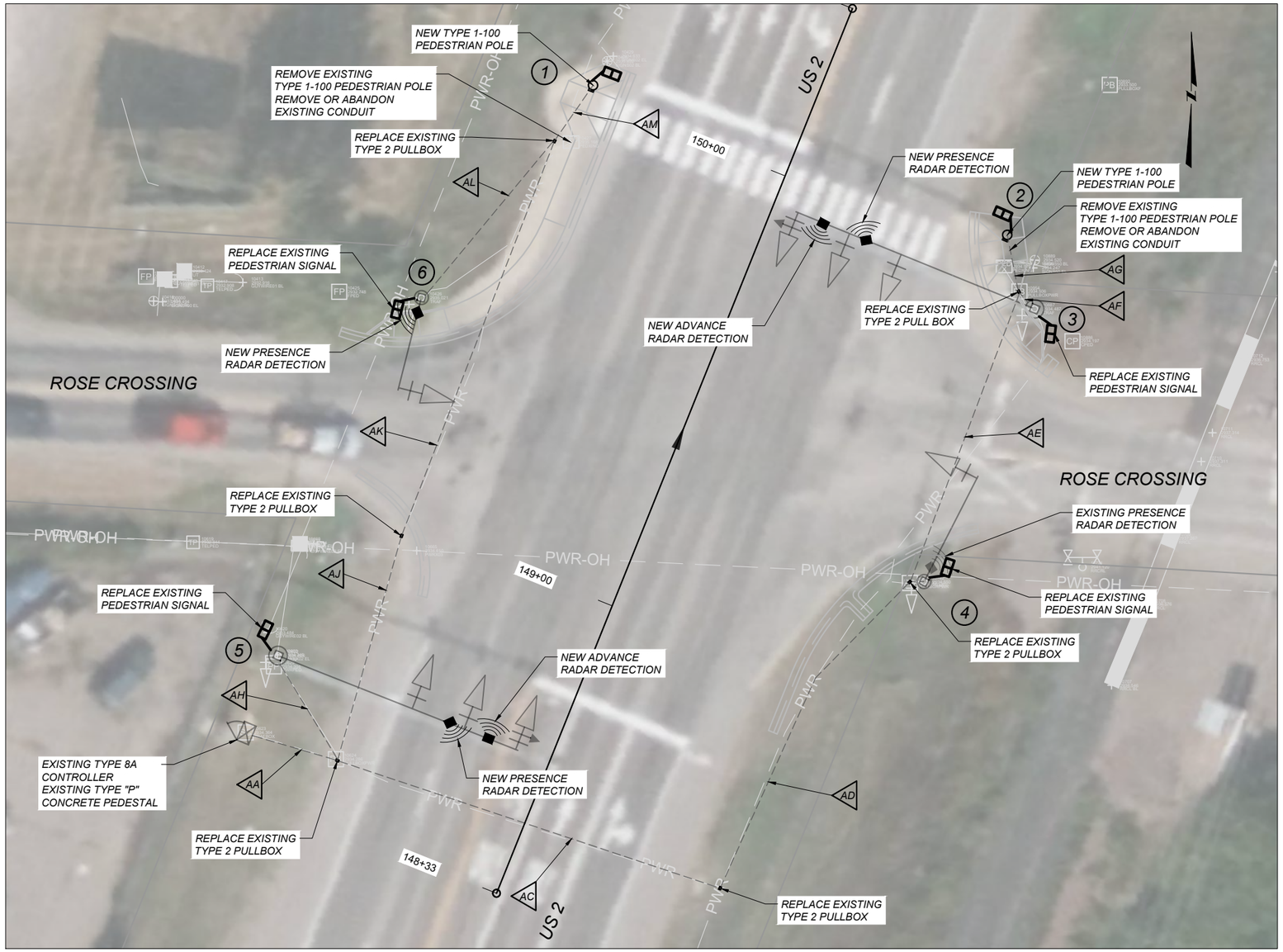
MONTANA Department of Transportation

ELECTRICAL PLANS

10/30/2024 12:37 PM

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SIGNAL INDICATIONS



LED
WITH COUNTDOWN
6 REQUIRED

POLE SCHEDULE

POLE NO.	TYPE	STATION	OFFSET	FOUNDATION TYPE	FOUNDATION DIA. X DEPTH	PEDESTRIAN PUSH BUTTON		X-COORDINATE	Y-COORDINATE
						LEFT ARROW	RIGHT ARROW		
1	1-100	150+02.68	45.73 LT.	BREAKAWAY	2' X 3'		1) NEW	806703.0104	1495534.6983
2	1-100	150+06.08	49.24 RT.	BREAKAWAY	2' X 3'	1) NEW		806792.3938	1495502.4117
3	EXISTING	EXISTING	EXISTING	ANCHOR	EXISTING				
4	EXISTING	EXISTING	EXISTING	ANCHOR	EXISTING				
5	EXISTING	EXISTING	EXISTING	ANCHOR	EXISTING				
6	EXISTING	EXISTING	EXISTING	ANCHOR	EXISTING				

GENERAL NOTES:

1. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
2. PROTECT EXISTING CABLE AND CONDUCTOR IN PLACE UNLESS OTHERWISE NOTED.
3. BOND ALL NEW ELECTRICAL GROUND CONDUCTORS TO EXISTING GROUND CONDUCTORS.
4. ABANDON EXISTING TRAFFIC SIGNAL DETECTOR LOOPS IN PLACE UNLESS IMPACTED/REMOVED DURING GRADING OPERATIONS.

CONDUIT AND WIRE SCHEDULE

AA
EXISTING 4 OF 2" SCHEDULE 80 PVC CONDUIT
EXISTING 1 OF 4AWG12 SIGNAL CABLE (R.R. PRE-EMPT)
EXISTING 2 OF 3AWG14 SIGNAL CABLE (ADVANCED FLASHER)
EXISTING 4 OF 12AWG14 SIGNAL CABLE
EXISTING 2 OF 7AWG14 SIGNAL CABLE (FLASHING YELLOW ARROW)
EXISTING 3 OF AWG6 CONDUCTOR (POWER TO CONTROLLER)
EXISTING 2 OF EMERGENCY PREEMPTION CABLE (OPTICOM)
EXISTING 1 OF RADAR DETECTION CABLE
REMOVE 4 OF DETECTOR LOOP LEAD-IN CABLE
REMOVE 2 OF 5AWG14 SIGNAL CABLE
NEW 2 OF 5AWG14 SIGNAL CABLE
NEW 5 OF RADAR DETECTION CABLE

AC
EXISTING 2 OF 2" SCHEDULE 80 PVC CONDUIT
EXISTING 1 OF 4AWG12 SIGNAL CABLE (R.R. PRE-EMPT)
EXISTING 1 OF 3AWG14 SIGNAL CABLE (ADVANCED FLASHER)
EXISTING 2 OF 12AWG14 SIGNAL CABLE
EXISTING 1 OF 7AWG14 SIGNAL CABLE (FLASHING YELLOW ARROW)
EXISTING 2 OF AWG10 CONDUCTOR (LIGHTING)
EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
EXISTING 1 OF RADAR DETECTION CABLE
REMOVE 2 OF DETECTOR LOOP LEAD-IN CABLE
REMOVE 1 OF 5AWG14 SIGNAL CABLE
NEW 1 OF 5AWG14 SIGNAL CABLE
NEW 2 OF RADAR DETECTION CABLE
NEW 1 OF 3" PLASTIC CONDUIT

AD
EXISTING 2 OF 2" SCHEDULE 80 PVC CONDUIT
EXISTING 1 OF 4AWG12 SIGNAL CABLE (R.R. PRE-EMPT)
EXISTING 2 OF 12AWG14 SIGNAL CABLE
EXISTING 1 OF 7AWG14 SIGNAL CABLE (FLASHING YELLOW ARROW)
EXISTING 2 OF AWG10 CONDUCTOR (LIGHTING)
EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
EXISTING 1 OF RADAR DETECTION CABLE
REMOVE 1 OF DETECTOR LOOP LEAD-IN CABLE
REMOVE 1 OF 5AWG14 SIGNAL CABLE
NEW 1 OF 5AWG14 SIGNAL CABLE
NEW 2 OF RADAR DETECTION CABLE
NEW 1 OF 2" PLASTIC CONDUIT

AE
EXISTING 1 OF 2" SCHEDULE 80 PVC CONDUIT
EXISTING 1 OF 12AWG14 SIGNAL CABLE
EXISTING 1 OF 7AWG14 SIGNAL CABLE (FLASHING YELLOW ARROW)
EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
EXISTING 2 OF AWG10 CONDUCTOR (LIGHTING)
REMOVE 1 OF DETECTOR LOOP LEAD-IN CABLE
REMOVE 1 OF 5AWG14 SIGNAL CABLE
NEW 1 OF 5AWG14 SIGNAL CABLE
NEW 2 OF RADAR DETECTION CABLE
NEW 1 OF 2" PLASTIC CONDUIT

AF
EXISTING 1 OF 2" SCHEDULE 80 PVC CONDUIT
EXISTING 1 OF 12AWG14 SIGNAL CABLE
EXISTING 1 OF 7AWG14 SIGNAL CABLE (FLASHING YELLOW ARROW)
EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
EXISTING 2 OF AWG10 CONDUCTOR (LIGHTING)
NEW 2 OF RADAR DETECTION CABLE
NEW 1 OF 2" PLASTIC CONDUIT

AG
NEW 1 OF 2" PLASTIC CONDUIT
NEW 1 OF 5AWG14 SIGNAL CABLE
NEW 1 OF AWG10 CONDUCTOR (POLE GROUND)

AH
EXISTING 1 OF 2" SCHEDULE 80 PVC CONDUIT
EXISTING 1 OF 12AWG14 SIGNAL CABLE
EXISTING 1 OF 7AWG14 SIGNAL CABLE (FLASHING YELLOW ARROW)
EXISTING 3 OF AWG6 CONDUCTOR (POWER TO CONTROLLER)
EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
EXISTING 2 OF AWG10 CONDUCTOR (LIGHTING)
EXISTING 1 OF EMERGENCY PREEMPTION CABLE (OPTICOM)
NEW 2 OF RADAR DETECTION CABLE
NEW 1 OF 2" PLASTIC CONDUIT

AJ
EXISTING 1 OF 2" SCHEDULE 80 PVC CONDUIT
EXISTING 1 OF 3AWG14 SIGNAL CABLE (ADVANCED FLASHER)
EXISTING 1 OF 12AWG14 SIGNAL CABLE
EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
EXISTING 2 OF EMERGENCY PREEMPTION CABLE (OPTICOM)
REMOVE 2 OF DETECTOR LOOP LEAD-IN CABLE
REMOVE 1 OF 5AWG14 SIGNAL CABLE
NEW 1 OF 5AWG14 SIGNAL CABLE
NEW 1 OF RADAR DETECTION CABLE
NEW 1 OF 2" PLASTIC CONDUIT

AK
EXISTING 1 OF 2" SCHEDULE 80 PVC CONDUIT
EXISTING 1 OF 3AWG14 SIGNAL CABLE (ADVANCED FLASHER)
EXISTING 1 OF 12AWG14 SIGNAL CABLE
EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
EXISTING 1 OF EMERGENCY PREEMPTION CABLE (OPTICOM)
REMOVE 1 OF DETECTOR LOOP LEAD-IN CABLE
REMOVE 1 OF 5AWG14 SIGNAL CABLE
NEW 1 OF 5AWG14 SIGNAL CABLE
NEW 1 OF RADAR DETECTION CABLE
NEW 1 OF 2" PLASTIC CONDUIT

AL
EXISTING 1 OF 2" SCHEDULE 80 PVC CONDUIT
EXISTING 1 OF 12AWG14 SIGNAL CABLE
EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
EXISTING 1 OF EMERGENCY PREEMPTION CABLE (OPTICOM)
NEW 1 OF RADAR DETECTION CABLE

AM
NEW 1 OF 2" SCHEDULE 80 PVC CONDUIT
NEW 1 OF 5AWG14 SIGNAL CABLE
NEW 1 OF AWG10 CONDUCTOR (POLE GROUND)

SHEET NO.
E3

ELECTRICAL PLANS
ROSE CROSSING

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY	9/2024
L. HARK	
REVIEWED BY	10/2024
J. DOLD	
CHECKED BY	11/2024
D. CUNNINGHAM	

MONTANA
Department of Transportation

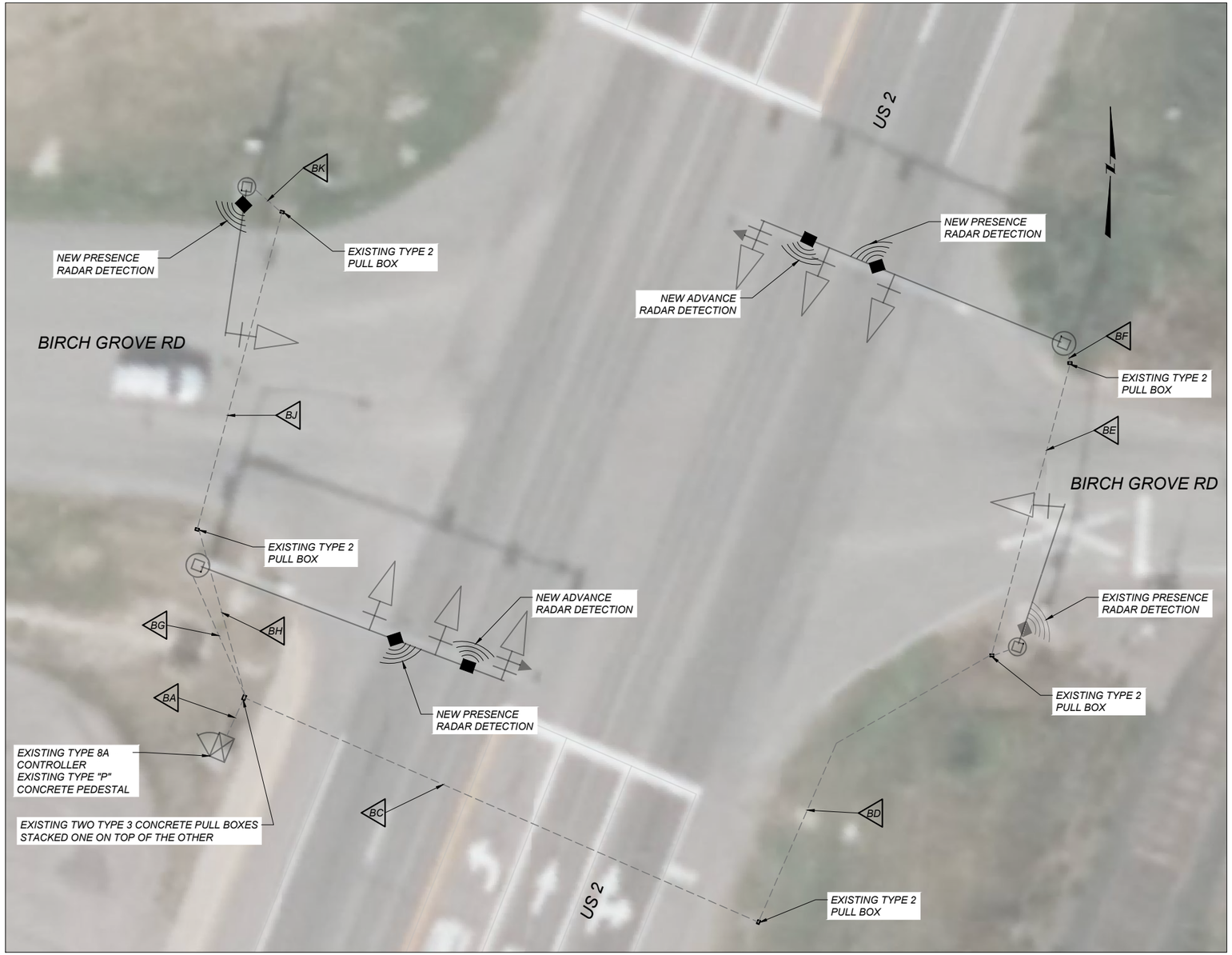
ELECTRICAL PLANS

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11/13/2024 3:09 PM

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CONDUIT AND WIRE SCHEDULE

BA
- EXISTING 4 OF 2" SCHEDULE 80 PVC CONDUIT
- EXISTING 1 OF 4AWG12 SIGNAL CABLE (R.R. PRE-EMPT)
- EXISTING 2 OF 3AWG14 SIGNAL CABLE (ADVANCED FLASHERS)
- EXISTING 2 OF 7AWG14 SIGNAL CABLE (FLASHING YELLOW ARROW)
- EXISTING 2 OF 12AWG14 SIGNAL CABLE
- EXISTING 2 OF 15AWG14 SIGNAL CABLE
- EXISTING 3 OF AWG6 CONDUCTOR (POWER TO CONTROLLER)
- EXISTING 2 OF EMERGENCY PREEMPTION CABLE (OPTICOM)
- EXISTING 1 OF RADAR DETECTION CABLE
- REMOVE 5 OF DETECTOR LOOP LEAD-IN CABLE
- NEW 5 OF RADAR DETECTION CABLE

BC
- EXISTING 2 OF 2" SCHEDULE 80 PVC CONDUIT
- EXISTING 1 OF 4AWG12 SIGNAL CABLE (R.R. PRE-EMPT)
- EXISTING 1 OF 3AWG14 SIGNAL CABLE (ADVANCED FLASHER)
- EXISTING 1 OF 7AWG14 SIGNAL CABLE (FLASHING YELLOW ARROW)
- EXISTING 1 OF 12AWG14 SIGNAL CABLE
- EXISTING 1 OF 15AWG14 SIGNAL CABLE
- EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
- EXISTING 2 OF AWG10 CONDUCTOR (LIGHTING)
- EXISTING 1 OF RADAR DETECTION CABLE
- REMOVE 3 OF DETECTOR LOOP LEAD-IN CABLE
- NEW 2 OF RADAR DETECTION CABLE

BD
- EXISTING 2 OF 2" SCHEDULE 80 PVC CONDUIT
- EXISTING 1 OF 4AWG12 SIGNAL CABLE (R.R. PRE-EMPT)
- EXISTING 1 OF 7AWG14 SIGNAL CABLE (FLASHING YELLOW ARROW)
- EXISTING 1 OF 12AWG14 SIGNAL CABLE
- EXISTING 1 OF 15AWG14 SIGNAL CABLE
- EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
- EXISTING 2 OF AWG10 CONDUCTOR (LIGHTING)
- EXISTING 1 OF RADAR DETECTION CABLE
- REMOVE 1 OF DETECTOR LOOP LEAD-IN CABLE
- NEW 2 OF RADAR DETECTION CABLE

BE
- EXISTING 1 OF 2" SCHEDULE 80 PVC CONDUIT
- EXISTING 1 OF 15AWG14 SIGNAL CABLE
- EXISTING 1 OF 7AWG14 SIGNAL CABLE (FLASHING YELLOW ARROW)
- EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
- EXISTING 2 OF AWG10 CONDUCTOR (LIGHTING)
- REMOVE 1 OF DETECTOR LOOP LEAD-IN CABLE
- NEW 2 OF RADAR DETECTION CABLE
- NEW 1 OF 2" PLASTIC CONDUIT

BF
- EXISTING 1 OF 2" SCHEDULE 80 PVC CONDUIT
- EXISTING 1 OF 15AWG14 SIGNAL CABLE
- EXISTING 1 OF 7AWG14 SIGNAL CABLE (FLASHING YELLOW ARROW)
- EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
- EXISTING 2 OF AWG10 CONDUCTOR (LIGHTING)
- NEW 2 OF RADAR DETECTION CABLE
- NEW 1 OF 2" PLASTIC CONDUIT

BG
- EXISTING 1 OF 2" SCHEDULE 80 PVC CONDUIT
- EXISTING 1 OF 15AWG14 SIGNAL CABLE
- EXISTING 1 OF 7AWG14 SIGNAL CABLE (FLASHING YELLOW ARROW)
- EXISTING 3 OF AWG6 CONDUCTOR (POWER TO CONTROLLER)
- EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
- EXISTING 2 OF AWG10 CONDUCTOR (LIGHTING)
- EXISTING 1 OF EMERGENCY PREEMPTION CABLE (OPTICOM)
- NEW 2 OF RADAR DETECTION CABLE
- NEW 1 OF 2" PLASTIC CONDUIT

BH
- EXISTING 1 OF 2" SCHEDULE 80 PVC CONDUIT
- EXISTING 1 OF 3AWG14 SIGNAL CABLE (ADVANCED FLASHERS)
- EXISTING 1 OF 12AWG14 SIGNAL CABLE
- EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
- EXISTING 1 OF EMERGENCY PREEMPTION CABLE (OPTICOM)
- REMOVE 2 OF DETECTOR LOOP LEAD-IN CABLE
- NEW 1 OF RADAR DETECTION CABLE

BJ
- EXISTING 1 OF 2" SCHEDULE 80 PVC CONDUIT
- EXISTING 1 OF 3AWG14 SIGNAL CABLE (ADVANCED FLASHERS)
- EXISTING 1 OF 12AWG14 SIGNAL CABLE
- EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
- EXISTING 1 OF EMERGENCY PREEMPTION CABLE (OPTICOM)
- REMOVE 1 OF DETECTOR LOOP LEAD-IN CABLE
- NEW 1 OF RADAR DETECTION CABLE

BK
- EXISTING 1 OF 2" SCHEDULE 80 PVC CONDUIT
- EXISTING 1 OF 12AWG14 SIGNAL CABLE
- EXISTING 1 OF AWG10 CONDUCTOR (POLE GROUND)
- EXISTING 1 OF EMERGENCY PREEMPTION CABLE (OPTICOM)
- NEW 1 OF RADAR DETECTION CABLE

GENERAL NOTES:
1. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
2. PROTECT EXISTING CABLE AND CONDUCTOR IN PLACE UNLESS OTHERWISE NOTED.
3. ABANDON EXISTING TRAFFIC SIGNAL DETECTOR LOOPS IN PLACE UNLESS IMPACTED/REMOVED DURING GRADING OPERATIONS.

SHEET NO.
E4

ELECTRICAL PLANS
BIRCH GROVE RD

PROJECT NAME: ROSE XING TO GLACIER AIRPORT
COUNTY: FLATHEAD
PROJECT ID: NH 1-2(252)125
UPN: 10373000

DESIGNED BY	9/2024
L. HARK	
REVIEWED BY	10/2024
J. DOLD	
CHECKED BY	11/2024
D. CUNNINGHAM	

10373000ELPLN001.DWG

MONTANA
Department of Transportation

ELECTRICAL PLANS

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