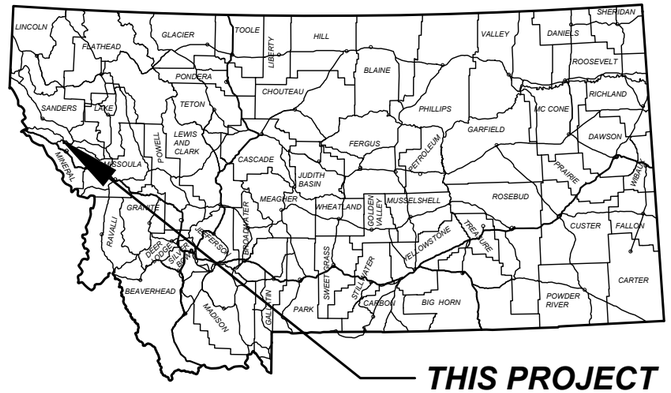
AWARD COPY

MONTANA DEPARTMENT OF TRANSPORTATION



PROJECT DESIGN DATA

PRESENT	2022	A.D.T. =	3140
LETTING	2023	A.D.T. =	3210
DESIGN	2043	A.D.T. =	4960
		D.H.V. =	780
		TRUCKS =	14.4%
		V. =	VARIES
		18 KIP ESAL'S =	162
		GROWTH RATE =	2.2%

For MT-200 only RP 82.4 to RP 85.3

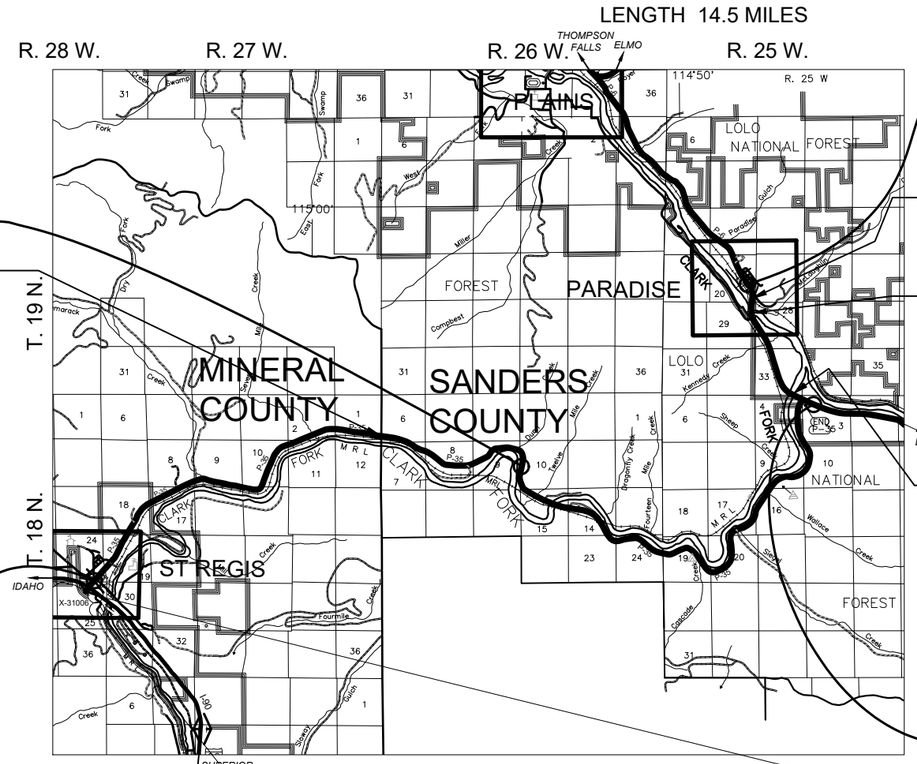
FEDERAL AID PROJECT STPP STWD(903)

PMS OVERLAY, SEAL & COVER WITH FOG SEAL

SAINT REGIS-PARADISE

SANDERS & MINERAL COUNTIES

LENGTH 14.5 MILES



584+79.70 ON FHP 9-1(5) =

584+79.70 END STPP STWD(903)

STA. 405+52.40
RP 7.69
MINERAL/SANDERS
COUNTY LINE

RP 0.0 TO RP 11.1
THIS CONTRACT
P-35 (STPP STWD(903) FUNDED)

0+65.73 BEG STPP STWD(903)

0+65.73 ON S-216(2) =

0+00.00 BR-STPP ON 6-1(130)76 =

0+00.00 BEG STPP STWD(903)

STA. 8+86.79
RP 82.5
RAILROAD CROSSING

STA. 21+05.00
RP 82.75
MDT STR. ID. 05277
NBI P00006082+07591
1,102.0' X 42.3' BR. IN PL.
CLARK FORK RIVER
THIS CONTRACT

STA. 126+70.00
RP 84.75
MDT STR. ID. 05278
NBI P00006084+07531
469.9' X 42.3' BR. IN PL.
CLARK FORK RIVER
THIS CONTRACT

RP 85.4 TO RP 82.4
THIS CONTRACT
P-6 (STPP STWD(903) FUNDED)

161+30.43 END STPP STWD(903)

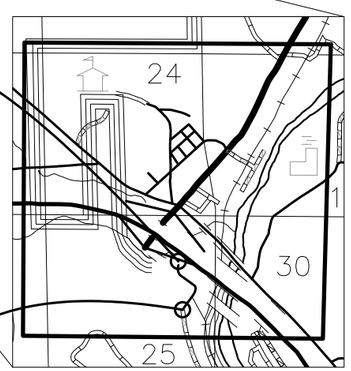
161+30.43 ON BR-STPP 6-(65)83 =

10+06.00 ON I-IG 90-1(61)27 =

10+06.00 BEG STPP STWD(903)

RP 0.0 TO RP 0.3
THIS CONTRACT
X-31006 (STATE FUNDED)

25+84.00 END STPP STWD(903)



NOTE:
SURFACING SOURCES-CONTRACTOR FURNISHED

SHEET NO. 01

TITLE

PROJECT NAME: SAINT REGIS-PARADISE
COUNTY: SANDERS & MINERAL COUNTIES
PROJECT ID: STPP STWD(903)
UPN: 10235000

DESIGNED BY	M. CORNYN	8/10/2023	
REVIEWED BY	J. DOLD	8/29/2023	
CHECKED BY	T. JOHNSON	8/25/2023	

MONTANA Department of Transportation

ROAD PLANS

9/8/2023 12:51 PM

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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 CEMENT - GRADE S - 1/2" AGG.	= 5.7% 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 (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

AS-BUILTS

FOR ORIGINAL HORIZONTAL ALIGNMENT AND STATIONING, REFER TO THE "AS-BUILT" PROJECTS.

S-216(2)
STPP-STPHS-STPE 35-1(10)0
BR-STPP 6-1(65)83
I-IG 90-1(61)27 Unit 8

UTILITIES

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

WETLANDS

WETLANDS MAY EXIST ADJACENT TO THE ROADWAY AND BEYOND THE PROJECT LIMITS. A WETLAND DELINEATION HAS NOT BEEN 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.

WEIGH-IN-MOTION SITE

THERE IS A WEIGH-IN-MOTION (WIM) SITE (SITE ID W-118) ON MT-200 AT RP 84.25 THAT WILL BE IMPACTED DURING CONSTRUCTION AND REPLACED BY STATE FORCES AFTER THE COMPLETION OF THE WORK ON MT-200. SEE SPECIAL PROVISION FOR ADDITIONAL COORDINATION DETAILS.

SHEET NO.
02

NOTES

PROJECT NAME: SAINT REGIS-PARADISE
COUNTY: SANDERS & MINERAL COUNTIES
PROJECT ID: STPP STWD(903)
UPN: 10235000

DESIGNED BY	M. CORNYN	8/10/2023
REVIEWED BY	J. DOLD	8/29/2023
CHECKED BY	T. JOHNSON	8/25/2023

MONTANA
Department of Transportation

ROAD PLANS

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APPROACHES & TURNOUTS (FOR INFORMATION ONLY)

STATION FROM	STATION TO	TYPE	linear feet: WIDTH	linear feet: RADIUS # LEFT	linear feet: RADIUS # RIGHT	linear feet: LENGTH OF PAVING	EXISTING SURFACING	feet: PMS THK.	PROPOSED SURFACE	sq. yards: COVER - TYPE 1	tons: PLANT MIX BIT. SURF. GRADE S - 1/2"	tons: PLANT MIX BIT. SURF. GRADE S - MISC.	tons: ASPHALT CEMENT PG 58V-34	tons: EMULS. ASPHALT CHFRS-2P	gallons: EMULS. ASPHALT TACK	gallons: EMULS. ASPHALT FOG SEAL	square yards: COLD MILLING * 0.00 TO 0.20 ft	REMARKS
103+37		FARM FIELD	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	RT.
133+00		FARM FIELD	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	RT.
133+00		FARM FIELD	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	LT.
149+77		FARM FIELD	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	RT.
159+53		FARM FIELD	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	LT.
SUBTOTAL		FARM FIELD										12	0.5		4		70	
2+64		PRIVATE	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	LT.
3+34		PRIVATE	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	LT.
10+29		PRIVATE	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	LT.
53+38		PRIVATE	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	RT.
58+42		PRIVATE	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	LT.
60+81		PRIVATE	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	LT.
69+47		PRIVATE	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	LT.
103+37		PRIVATE	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	LT.
118+31		PRIVATE	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	RT.
143+02		PRIVATE	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	LT.
149+77		PRIVATE	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	LT.
155+80		PRIVATE	24	25	25	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'			2.3	0.1		0.7		14.0	RT.
SUBTOTAL		PRIVATE										28	1.2		8		168	
1+27		PUBLIC	24	25	25	25.0	ASPHALT	0.2	ASPHALT - PAVED TO RADIUS RETURNS		13.8		0.8		5.6		112.0	LT.
4+62		PUBLIC	24	25	25	25.0	ASPHALT	0.2	ASPHALT - PAVED TO RADIUS RETURNS		13.8		0.8		5.6		112.0	LT.
4+63		PUBLIC	24	25	25	25.0	ASPHALT	0.2	ASPHALT - PAVED TO RADIUS RETURNS		13.8		0.8		5.6		112.0	RT.
8+11		PUBLIC	24	25	25	25.0	ASPHALT	0.2	ASPHALT - PAVED TO RADIUS RETURNS		13.8		0.8		5.6		112.0	LT.
30+55		PUBLIC	24	25	25	25.0	ASPHALT	0.2	ASPHALT - PAVED TO RADIUS RETURNS		13.8		0.8		5.6		112.0	RT.
140+80		PUBLIC	30	124	128	128.0	ASPHALT	0.2	ASPHALT - PAVED TO RADIUS RETURNS	874.5	112.4		6.4	1.6	43.7	65.6	874.5	RT. - P-35
SUBTOTAL		PUBLIC								875	181		10.4	1.6	72	66	1,435	
29+71	32+50	SNOWPLOW TURNOUT	~	~	~	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'	789.0		10.0	0.6	1.4	4.0	59.2	80.0	LT.
57+10	61+90	KENNEDY SPRINGS TURNOUT	~	~	~	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'	1,316.0		18.0	1.0	2.4	7.0	98.7	140.0	RT.
57+35	62+38	MAILBOX TURNOUT	~	~	~	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'	271.0		17.4	1.0	0.5	13.6	20.3	272.0	LT.
68+14	71+04	MAILBOX TURNOUT	~	~	~	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'	129.0		8.3	0.5	0.2	6.5	9.7	130.0	LT.
102+04	104+94	MAILBOX TURNOUT	~	~	~	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'	129.0		8.3	0.5	0.2	6.5	9.7	130.0	LT.
116+74	119+64	MAILBOX TURNOUT	~	~	~	3.0	ASPHALT	0.2	ASPHALT - PAVED 3'	129.0		8.3	0.5	0.2	6.5	9.7	130.0	RT.
SUBTOTAL		TURNOUTS								2,763		70	4.1	4.9	44	207	882	

ALL RADII MEASURED TO FRONT OF GUTTER OR EDGE OF SHOULDER
* SEE DETAIL.
M.O.C. - MEASURED ON CADD

SHEET NO. 03

APPROACHES

PROJECT NAME SAINT REGIS-PARADISE
COUNTY SANDERS & MINERAL COUNTIES
PROJECT ID STPP STWD(903)
UPN 10235000

DESIGNED BY	REVIEWED BY	CHECKED BY
M. CORNYN 8/10/2023	J. DOLD 8/29/2023	T. JOHNSON 8/25/2023

10235000RDTTL001.DWG

MONTANA Department of Transportation

ROAD PLANS

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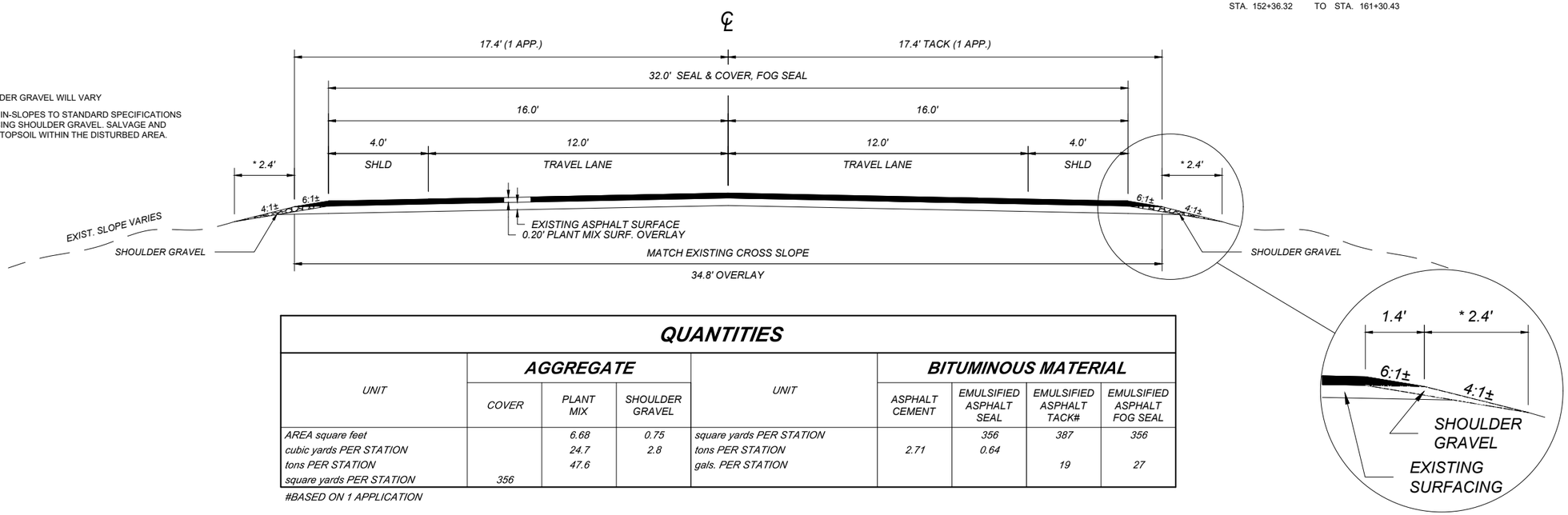
TYPICAL SECTION NO. 1

MT-200

STA. 0+00.00 TO STA. 8+79.29 R.R.
STA. 8+94.29 R.R. TO STA. 9+60.00
STA. 9+60.00 TO STA. 12+00.00 TRANS. TYP. NO. 1 TO TYP. NO. 2
STA. 32+70.46 TO STA. 119+08.66
STA. 119+08.66 TO STA. 121+48.66 TRANS. TYP. NO. 1 TO TYP. NO. 2
STA. 152+36.32 TO STA. 161+30.43

*WIDTH OF SHOULDER GRAVEL WILL VARY

GRADE EXISTING IN-SLOPES TO STANDARD SPECIFICATIONS BEFORE PLACING SHOULDER GRAVEL. SALVAGE AND REPLACE ALL TOPSOIL WITHIN THE DISTURBED AREA.



QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			
	COVER	PLANT MIX	SHOULDER GRAVEL		ASPHALT CEMENT	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK#	EMULSIFIED ASPHALT FOG SEAL
AREA square feet		6.68	0.75	square yards PER STATION		356	387	356
cubic yards PER STATION		24.7	2.8	tons PER STATION	2.71	0.64		
tons PER STATION		47.6		gals. PER STATION			19	27
square yards PER STATION	356							

#BASED ON 1 APPLICATION

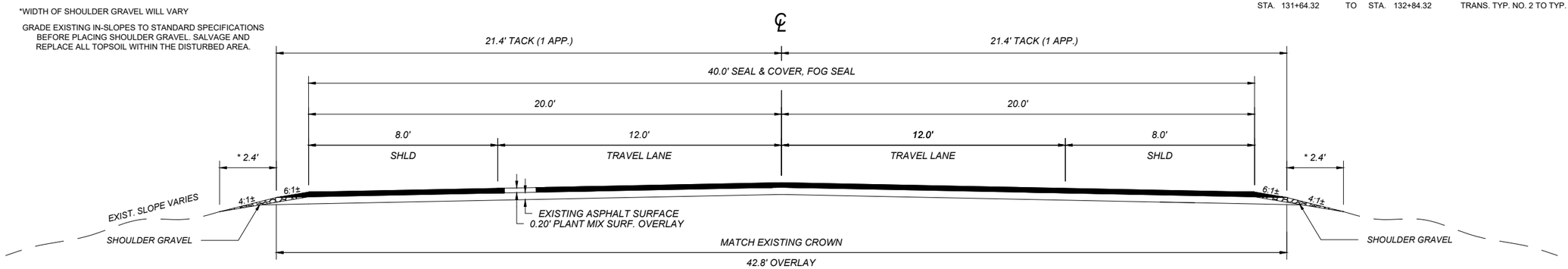
TYPICAL SECTION NO. 2

MT-200

STA. 12+00.00 TO STA. 15+54.00 B.E.
STA. 26+56.00 B.E. TO STA. 30+30.46
STA. 30+30.46 TO STA. 32+70.46 TRANS. TYP. NO. 2 TO TYP. NO. 1
STA. 121+48.66 TO STA. 124+39.00 B.E.
STA. 129+01.00 B.E. TO STA. 131+64.32
STA. 131+64.32 TO STA. 132+84.32 TRANS. TYP. NO. 2 TO TYP. NO. 3

*WIDTH OF SHOULDER GRAVEL WILL VARY

GRADE EXISTING IN-SLOPES TO STANDARD SPECIFICATIONS BEFORE PLACING SHOULDER GRAVEL. SALVAGE AND REPLACE ALL TOPSOIL WITHIN THE DISTURBED AREA.



QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			
	COVER	PLANT MIX	SHOULDER GRAVEL		ASPHALT CEMENT	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK#	EMULSIFIED ASPHALT FOG SEAL
AREA square feet		8.28	0.75	square yards PER STATION		444	476	444
cubic yards PER STATION		30.7	2.8	tons PER STATION	3.37	0.79		
tons PER STATION		59.2		gals. PER STATION			24	33
square yards PER STATION	444							

#BASED ON 1 APPLICATION

SHEET NO. 04

TYPICAL SECTIONS

PROJECT NAME SAINT REGIS-PARADISE
COUNTY SANDERS & MINERAL COUNTIES
PROJECT ID STPP STWD(903)
UPN 10235000

DESIGNED BY	8/10/2023
M. CORNYN	
REVIEWED BY	8/29/2023
J. DOLD	
CHECKED BY	8/25/2023
T. JOHNSON	

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MONTANA Department of Transportation

ROAD PLANS

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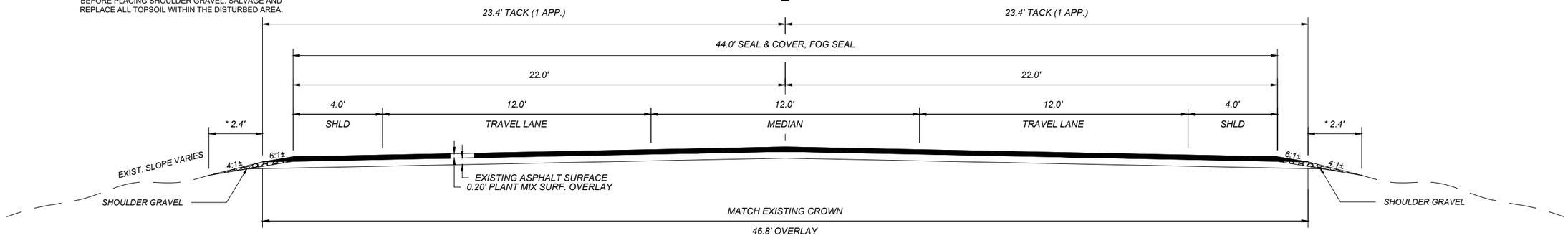
TYPICAL SECTION NO. 3

MT-200

STA. 132+84.32 ONLY
STA. 132+84.32 TO STA. 135+00.32 TRANS. TYP. NO. 3 TO TYP. NO. 4
STA. 140+79.94 TO STA. 148+76.32
STA. 148+76.32 TO STA. 152+36.32 TRANS. TYP. NO. 3 TO TYP. NO. 1

*WIDTH OF SHOULDER GRAVEL WILL VARY

GRADE EXISTING IN-SLOPES TO STANDARD SPECIFICATIONS BEFORE PLACING SHOULDER GRAVEL. SALVAGE AND REPLACE ALL TOPSOIL WITHIN THE DISTURBED AREA.



QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			
	COVER	PLANT MIX	SHOULDER GRAVEL		ASPHALT CEMENT	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK#	EMULSIFIED ASPHALT FOG SEAL
AREA square feet		9.08	0.75	square yards PER STATION		489	520	489
cubic yards PER STATION		33.6	2.8	tons PER STATION	3.69	0.87		
tons PER STATION		64.8		gals. PER STATION			26	37
square yards PER STATION	489							

#BASED ON 1 APPLICATION

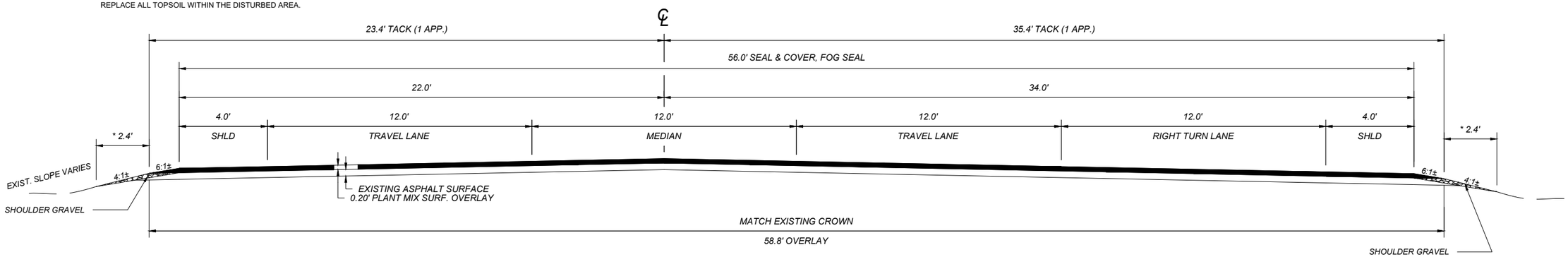
TYPICAL SECTION NO. 4

MT-200

STA. 135+00.32 TO STA. 140+79.94 THEN TYP. NO. 3

*WIDTH OF SHOULDER GRAVEL WILL VARY

GRADE EXISTING IN-SLOPES TO STANDARD SPECIFICATIONS BEFORE PLACING SHOULDER GRAVEL. SALVAGE AND REPLACE ALL TOPSOIL WITHIN THE DISTURBED AREA.



QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL			
	COVER	PLANT MIX	SHOULDER GRAVEL		ASPHALT CEMENT	EMULSIFIED ASPHALT SEAL	EMULSIFIED ASPHALT TACK#	EMULSIFIED ASPHALT FOG SEAL
AREA square feet		11.48	0.75	square yards PER STATION		622	653	622
cubic yards PER STATION		42.5	2.8	tons PER STATION	4.67	1.11		
tons PER STATION		81.9		gals. PER STATION			33	47
square yards PER STATION	622							

#BASED ON 1 APPLICATION

SHEET NO. 05

TYPICAL SECTIONS

PROJECT NAME SAINT REGIS-PARADISE
COUNTY SANDERS & MINERAL COUNTIES
PROJECT ID STPP STWD(903)
UPN 10235000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
M. CORNYN	8/10/2023	J. DOLD	8/29/2023	T. JOHNSON	8/25/2023

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MONTANA Department of Transportation

ROAD PLANS

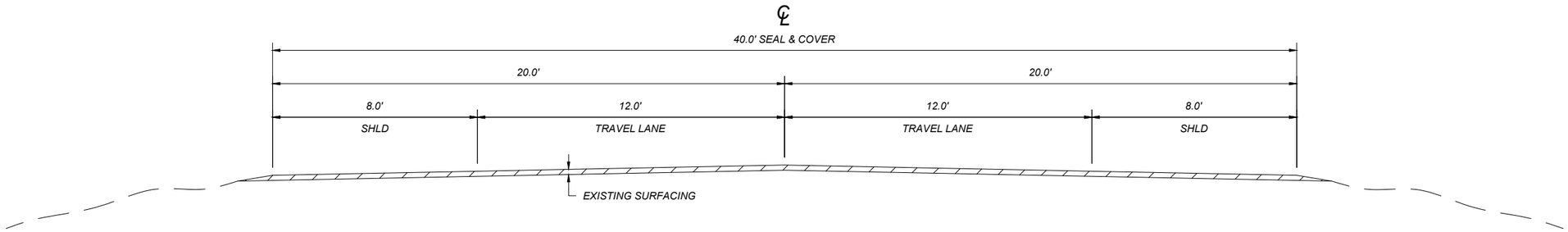
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TYPICAL SECTION NO. 5

MT-135

STA. 0+65.73 ONLY
STA. 0+65.73 TO STA. 1+25.13 TRANS. TYP. NO. 5 TO TYP. NO. 6

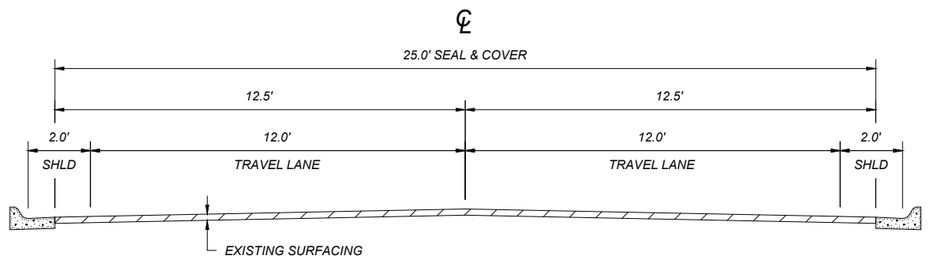


QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
AREA square feet		square yards PER STATION	444
cubic yards PER STATION		tons PER STATION	0.79
tons PER STATION		gals. PER STATION	
square yards PER STATION	444		

TYPICAL SECTION NO. 6

MT-135

STA. 1+25.13 TO STA. 4+51.27 THEN TYP. NO. 7



QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
AREA square feet		square yards PER STATION	278
cubic yards PER STATION		tons PER STATION	0.50
tons PER STATION		gals. PER STATION	
square yards PER STATION	278		

SHEET NO.
06

TYPICAL SECTIONS

PROJECT NAME SAINT REGIS-PARADISE
COUNTY SANDERS & MINERAL COUNTIES
PROJECT ID STPP STWD(903)
UPN 10235000

DESIGNED BY M. CORNYN 8/10/2023
REVIEWED BY J. DOLD 8/29/2023
CHECKED BY T. JOHNSON 8/25/2023
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MONTANA Department of Transportation

ROAD PLANS

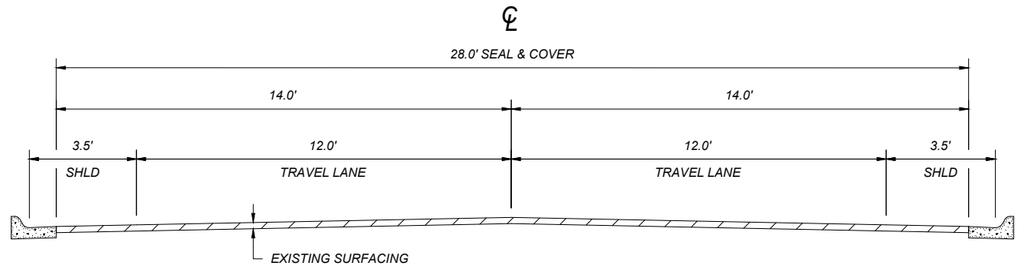
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TYPICAL SECTION NO. 7

MT-135

STA. 4+51.27 TO STA. 4+54.43 THEN TYP. NO. 8

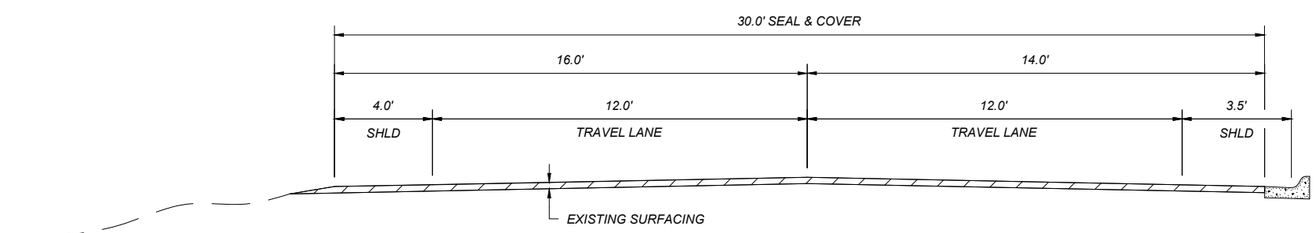


QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
AREA square feet cubic yards PER STATION tons PER STATION square yards PER STATION	 311	square yards PER STATION tons PER STATION gals. PER STATION	311 0.56

TYPICAL SECTION NO. 8

MT-135

STA. 4+54.43 TO STA. 6+71.27 THEN TYP. NO. 9



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

SHEET NO. 07

TYPICAL SECTIONS

PROJECT NAME SAINT REGIS-PARADISE

COUNTY SANDERS & MINERAL COUNTIES

PROJECT ID STPP STWD(903)

UPN 10235000

DESIGNED BY	8/10/2023
M. CORNYN	
REVIEWED BY	8/29/2023
J. DOLD	
CHECKED BY	8/25/2023
T. JOHNSON	

10235000RDTYP002.DWG

MONTANA Department of Transportation

ROAD PLANS

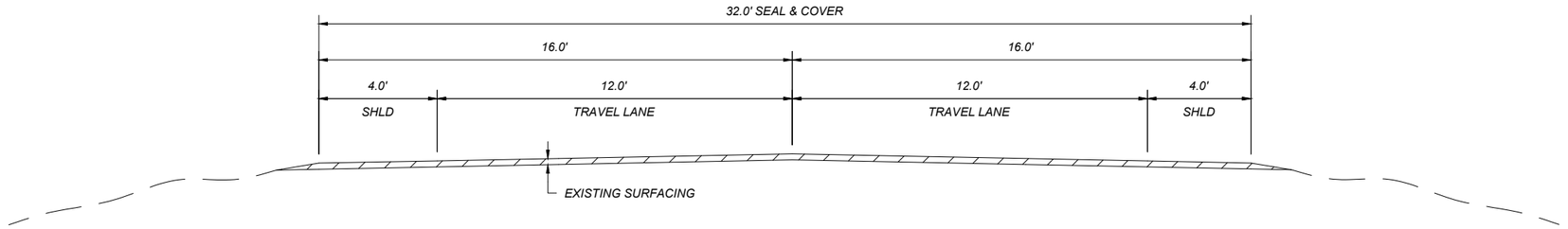
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TYPICAL SECTION NO. 9

MT-135

STA. 6+71.27
STA. 40+33.19 Bk TO STA. 37+61.87 Ah
TO STA. 37+61.87
STA. 37+61.87 TO STA. 43+05.11 TRANS. TYP. NO. 9 TO TYP. NO. 10
* WIDTH TRANSITION ONLY, FOG SEAL BEGIN TYP. NO. 10

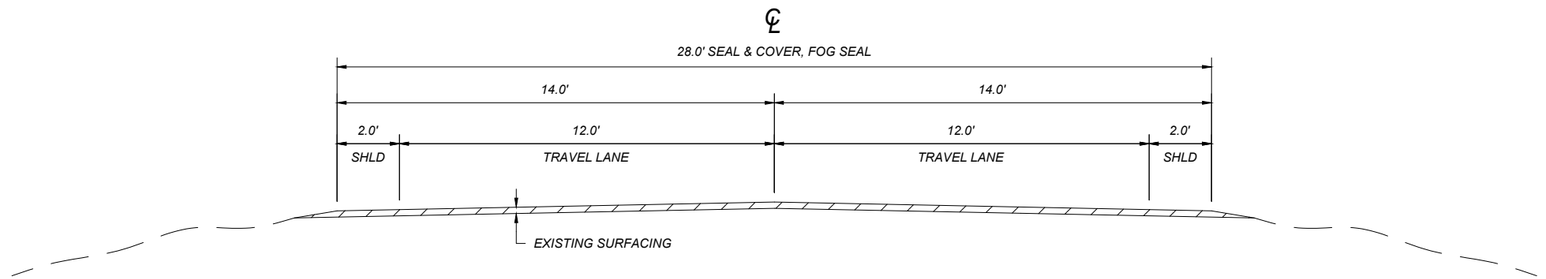


QUANTITIES			
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL
AREA square feet		square yards PER STATION	356
cubic yards PER STATION		tons PER STATION	0.64
tons PER STATION		gals. PER STATION	
square yards PER STATION	356		

TYPICAL SECTION NO. 10

MT-135

STA. 43+05.11 TO STA. 179+00.00 THEN TYP. NO. 11



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

SHEET NO.
08

TYPICAL SECTIONS

PROJECT NAME SAINT REGIS-PARADISE
COUNTY SANDERS & MINERAL COUNTIES
PROJECT ID STPP STWD(903)
UPN 10235000

DESIGNED BY M. CORNYN 8/10/2023
REVIEWED BY J. DOLD 8/29/2023
CHECKED BY T. JOHNSON 8/25/2023
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MONTANA Department of Transportation
ROAD PLANS

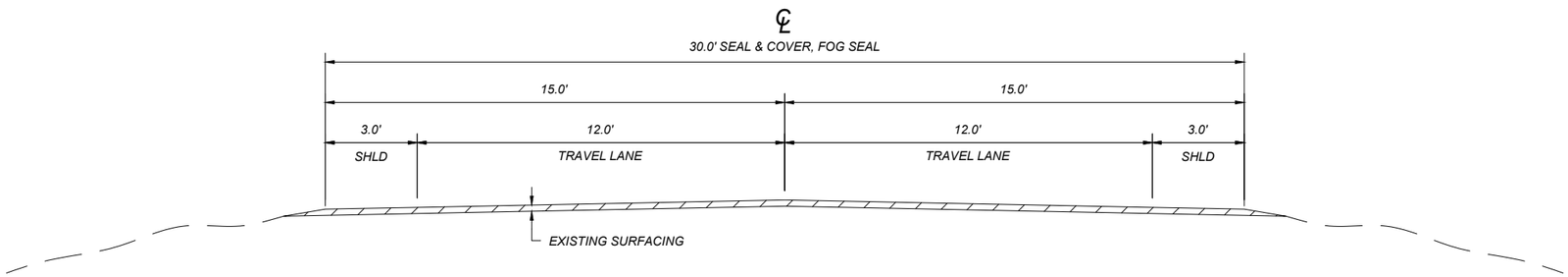
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TYPICAL SECTION NO. 11

MT-135

STA. 179+00.00 TO STA. 584+79.70

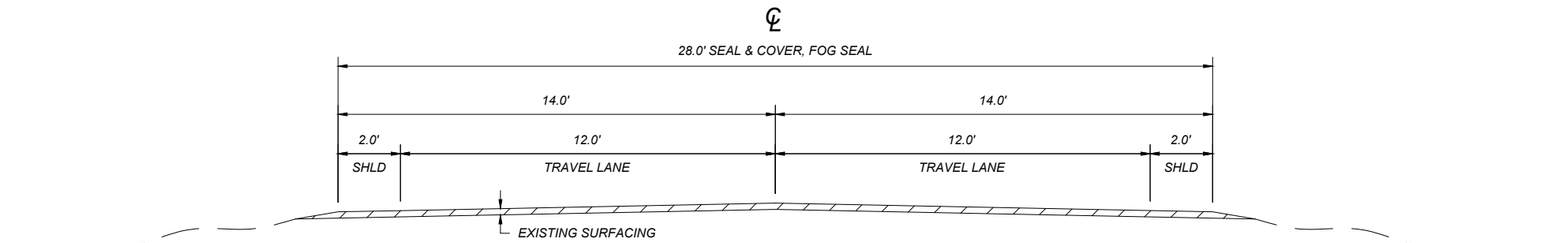


QUANTITIES				
UNIT	AGGREGATE COVER	UNIT	BITUMINOUS MATERIAL EMULSIFIED ASPHALT SEAL	BITUMINOUS MATERIAL EMULSIFIED ASPHALT FOG SEAL
AREA square feet		square yards PER STATION	333	333
cubic yards PER STATION		tons PER STATION	0.59	
tons PER STATION		gals. PER STATION		25
square yards PER STATION	333			

TYPICAL SECTION NO. 12

COLD CREEK ROAD (X-31006)
(STATE FUNDED)

STA. 10+06.00 TO STA. 25+84.00



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

SHEET NO. 09

TYPICAL SECTIONS

PROJECT NAME SAINT REGIS-PARADISE
COUNTY SANDERS & MINERAL COUNTIES
PROJECT ID STPP STWD(903)
UPN 10235000

DESIGNED BY	8/10/2023
M. CORNYN	
REVIEWED BY	8/29/2023
J. DOLD	
CHECKED BY	8/25/2023
T. JOHNSON	

10235000RDTYP002.DWG

MONTANA Department of Transportation

ROAD PLANS

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SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	HYDRATED LIME	AGGREGATE sq. yards COVER TYPE 1	AGGREGATE tons PLANT MIX BIT. SURF. GRADE S-1/2"	AGGREGATE tons PLANT MIX BIT. SURF. GRADE S - MISC.	AGGREGATE cu. yards SHOULDER GRAVEL	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 58V-34	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT FOG SEAL	REMARKS
MT-200																
0+00.00																
8+79.29 R.R.	8+94.29 R.R.				15.00	RAILROAD										
	9+60.00	960.00	945.00					4,621	612		26	34.9	8.2	246	350	TYP. NO. 1
9+60.00	12+00.00	240.00	240.00					960	128		7	7.3	1.7	52	72	TRANS. TYP. NO. 1 TO TYP. NO. 2
12+00.00																
15+54.00 B.E.	26+56.00 B.E.				1,102.00	BRIDGE										
	30+30.46	1,830.46	728.46					3,234	431		20	24.5	5.8	175	240	TYP. NO. 2
30+30.46	32+70.46	240.00	240.00					960	128		7	7.3	1.7	52	72	TRANS. TYP. NO. 2 TO TYP. NO. 1
32+70.46	119+08.66	8,638.20	8,638.20					30,752	4,112		242	234.1	55.3	1,641	2,332	TYP. NO. 1
119+08.66	121+48.66	240.00	240.00					960	128		7	7.3	1.7	52	72	TRANS. TYP. NO. 1 TO TYP. NO. 2
121+48.66																
124+35.83 B.E.	128+97.83 B.E.				462.00	BRIDGE										
	131+64.32	1,015.66	553.66					2,458	328		16	18.7	4.4	133	183	TYP. NO. 2
131+64.32	132+84.32	120.00	120.00					560	74		3	4.2	1.0	30	42	TRANS. TYP. NO. 2 TO TYP. NO. 3
132+84.32	135+00.32	216.00	216.00					1,200	158		6	9.0	2.1	64	91	TRANS. TYP. NO. 3 TO TYP. NO. 4
135+00.32	140+79.94	579.62	579.62					3,605	475		16	27.1	6.4	191	272	TYP. NO. 4
140+79.94	148+76.32	796.38	796.38					3,894	516		22	29.4	6.9	207	295	TYP. NO. 3
148+76.32	152+36.32	360.00	360.00					1,521	202		10	11.5	2.7	81	115	TRANS. TYP. NO. 3 TO TYP. NO. 1
152+36.32	161+30.43	894.11	894.11					3,183	426		25	24.2	5.7	170	241	TYP. NO. 1
						ADDITIONAL SURFACING		3,638	181	109		16.6	6.5	128	273	
MT-200 SUBTOTAL		16,130.43	14,551.43	~	1,579.00		112	61,546	7,899	109	407	456.1	110.1	3,222	4,650	
MT-135																
0+65.73	1+25.13	59.40	59.40					214					0.4			TRANS. TYP. NO. 5 TO TYP. NO. 6
1+25.13	4+51.27	326.14	326.14					907					1.6			TYP. NO. 6
4+51.27	4+54.43	3.16	3.16					10					0.1			TYP. NO. 7
4+54.43	6+71.27	216.84	216.84					722					1.3			TYP. NO. 8
6+71.27																
40+33.19 Bk	37+61.87 Ah			271.32		EQUATION										
	37+61.87	3,090.60	3,361.92					11,968					21.5			TYP. NO. 9
37+61.87	43+05.11	543.24	543.24					1,812					3.3			TRANS. TYP. NO. 9 TO TYP. NO. 10
43+05.11																
107+30.60 Bk	107+21.20 Ah			9.40		EQUATION										
131+51.70 Bk	131+49.70 Ah			2.00		EQUATION										
162+49.20 Bk	162+48.20 Ah			1.00		EQUATION										
178+26.26 Bk	178+42.37 Ah				16.11	EQUATION										
178+53.50 Bk	178+38.40 Ah			15.10		EQUATION										
	179+00.00	13,594.89	13,606.28					42,316					76.2		3,129	TYP. NO. 10
179+00.00																
208+75.69 Bk	208+75.81 Ah				0.12	EQUATION										
294+53.71 Bk	294+55.14 Ah				1.43	EQUATION										
406+39.28 Bk	405+88.88 Ah			50.40		EQUATION										
406+40.08 Bk	406+46.90 Ah				6.82	EQUATION										
409+10.70 Bk	408+67.29 Ah			43.41		EQUATION										
438+57.62 Bk	438+59.98 Ah				2.36	EQUATION										
578+19.46 Bk	578+22.88 Ah				3.42	EQUATION										
	584+79.70	40,579.70	40,659.36					135,396					239.9		10,165	TYP. NO. 11
						ADDITIONAL SURFACING									270	
MT-135 SUBTOTAL		58,413.97	58,776.34	392.63	30.26			193,345					344.3		13,564	
MT-200 & MT-135 SUBTOTAL		74,544.40	73,327.77	392.63	1,609.26		112	254,891	7,899	109	407	456.1	454.4	3,222	18,214	STPP STWD(903) FUNDED
COLD CREEK ROAD																
10+06.00	25+84.00	1,578.00	1,578.00					4,908					8.8		363	TYP. NO. 12
						ADDITIONAL SURFACING										
COLD CREEK ROAD SUBTOTAL		1,578.00	1,578.00	~	~			4,908					8.8		363	STATE FUNDED
TOTAL		76,122.40	74,905.77	392.63	1,609.26		112	259,799	7,899	109	407	456.1	463.2	3,222	18,577	

SHEET NO. 10

SUMMARY

PROJECT NAME: SAINT REGIS-PARADISE

COUNTY: SANDERS & MINERAL COUNTIES

PROJECT ID: STPP STWD(903)

UPN: 10235000

DESIGNED BY	DATE	REVIEWED BY	DATE	CHECKED BY	DATE
M. CORNYN	8/10/2023	J. DOLD	8/29/2023	T. JOHNSON	8/25/2023

MONTANA Department of Transportation

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ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE 1	AGGREGATE tons PLANT MIX BIT. SURF. GRADE S - 1/2"	AGGREGATE tons PLANT MIX BIT. SURF. GRADE S - MISC.	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 58V-34	BITUMINOUS MATERIAL tons EMULSIFIED ASPHALT CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT FOG SEAL	REMARKS
MT-200														
						6 - TURNOUTS	2,763		70	4.0	4.9	44	207	
						6 - PUBLIC APPROACHES	875	181		10.3	1.6	72	66	
						5 - FARM FIELD APPROACHES			12	0.7		4		
						12 - PRIVATE APPROACHES			28	1.6		8		
MT-200 SUBTOTAL		~	~	~	~		3,638	181	109	16.6	6.5	128	273	
MT-135														
4+59.32														
40+33.19 Bk.	37+61.87 Ah.			271.32		EQUATION								
	40+48.24	3,588.92	3,860.24			SHARED USE PATH - MT-135 RT.							270	IN THE TOWN OF ST. REGIS. SEE DETAIL
MT-135 SUBTOTAL		~	~	~	~								270	
SUBTOTAL		~	~	~	~		3,638	181	109	16.6	6.5	128	543	

MEASURED ON CAD

GRADING

STATION	cu. yards UNCL. EXC.	cu. yards EXCESS EXC.	REMARKS
10+22.46			
	60	60	MT-135 RT. - DITCH GRADING. STATIONING IS USING CL DITCH ALIGNMENT. SEE DETAIL AND CROSS SECTIONS.
13+33.77			
TOTAL	60	# 60	STPP STWD(903) FUNDED

FOR INFORMATION ONLY

PLANT MIX DITCH *

STATION FROM	STATION TO	linear feet PLANT MIX DITCH	tons COMM. PLANT MIX SURF. GR. S-1/2" PG 58-28	REMARKS
10+22.46	13+33.77	311	53	DRAINAGE DITCH - MT-135 RT. - LOCATED AT APPROX. RP 0.54 IN ST. REGIS. STATION IS USING CL DITCH ALIGNMENT.
TOTAL		311	# 53	STPP STWD(903) FUNDED

FOR INFORMATION ONLY
* SEE DETAIL AND CROSS SECTIONS

COLD MILLING *

STATION FROM	STATION TO	sq. yards COLD MILLING 0.00-0.20 ft	sq. yards COLD MILLING 0.20 ft	REMARKS
MT-200				
0+00.00	2+00.00	711		32' WIDTH
6+49.29	8+49.29	711		32' WIDTH
8+49.29	8+79.29 R.R.		107	32' WIDTH
8+94.29 RR	9+24.29		107	32' WIDTH
9+24.29	11+24.29	711		32' WIDTH
13+24.00	15+24.00	889		40' WIDTH
15+24.00	15+54.00 B.E.		133	40' WIDTH
26+56.00 B.E.	26+86.00		133	40' WIDTH
26+86.00	28+86.00	889		40' WIDTH
122+09.00	124+09.00	889		40' WIDTH
124+09.00	124+39.00 B.E.		133	40' WIDTH
129+01.00 B.E.	129+31.00		133	40' WIDTH
129+31.00	131+31.00	889		40' WIDTH
159+30.43	161+30.43	711		32' WIDTH
		70		FARM FIELD APPROACH CONNECTIONS
		168		PRIVATE APPROACH CONNECTIONS
		1,435		PUBLIC APPROACH CONNECTIONS
		882		TURNOUT CONNECTIONS
SUBTOTAL MT-200		8,955	746	
TOTAL		9,701		STPP STWD(903) FUNDED

* SEE DETAILS

SHEET NO. 11

SUMMARY

PROJECT NAME: SAINT REGIS-PARADISE
COUNTY: SANDERS & MINERAL COUNTIES
PROJECT ID: STPP STWD(903)
UPN: 10235000

DESIGNED BY: M. CORNYN 8/10/2023
REVIEWED BY: J. DOLD 8/29/2023
CHECKED BY: T. JOHNSON 8/25/2023
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MONTANA Department of Transportation
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GUARDRAIL

STATION FROM	STATION TO	linear feet: REMOVE & SALVAGE GUARDRAIL * LEFT	linear feet: REMOVE & SALVAGE GUARDRAIL * RIGHT	linear feet: MGS GUARDRAIL LEFT	linear feet: MGS GUARDRAIL RIGHT	each: MASH W-BEAM TERMINAL SECTION LEFT	each: MASH W-BEAM TERMINAL SECTION RIGHT	each: BRIDGE APPROACH SECTION TYPE 1 LEFT	each: BRIDGE APPROACH SECTION TYPE 1 RIGHT	each: GUARDRAIL END SECTION WIDENING LEFT	each: GUARDRAIL END SECTION WIDENING RIGHT	REMARKS
MT-200												
NEW RAIL												
12+21.59	15+24.69 B.R.				240.6 #		1		1		1	
13+02.60	15+55.70 B.R.			190.6 #		1		1		1		
26+51.16 B.R.	30+04.26				290.6 #		1		1		1	FLARE TERMINAL SECTION ON A 14:1 TAPER RATE ALONG THE SNOW PLOW TURNOUT (MATCH EXISTING CONFIGURATION).
26+89.88 B.R.	29+80.48			228.1 #		1		1		1		
121+22.83	124+25.93 B.R.				240.6 #		1		1		1	
122+72.83	124+25.93 B.R.			90.6 #		1		1		1		
129+07.73 B.R.	130+60.83				90.6 #		1		1		1	
129+07.73 B.R.	131+10.83			140.6 #		1		1		1		
REMOVE RAIL												
12+12.19	15+24.69 B.R.		312.5									
12+93.20	15+55.70 B.R.	262.5										
26+51.16 B.R.	30+13.66		362.5									
26+89.88 B.R.	29+89.88	300.0										
121+13.43	124+25.93 B.R.		312.5									
122+63.43	124+25.93 B.R.	162.5										
129+07.73 B.R.	130+70.23		162.5									
129+07.73 B.R.	131+20.23	212.5										
SUBTOTAL MT-200		937.5	1,150.0	649.9	862.4	4	4	4	4	4	4	
MT-135												
NEW RAIL												
96+62.50	110+37.50				1,300.0		2				2	**
REMOVE RAIL												
96+50.00	110+51.00		1,390.0									
SUBTOTAL MT-135			1,390.0		1,300.0		2			0	2	
TOTAL		3,477.5		2,812.3		10		8		10		STPP STWD(903) FUNDED

B.R. - START OF BRIDGE RAIL.
INCLUDES 28.1' LONG MGS TO METAL GUARDRAIL TRANSITION.
* SEE SALVAGE OF EXISTING GUARDRAIL SPECIAL PROVISION FOR GUARDRAIL SALVAGE LOCATIONS AND REQUIREMENTS.
** INSTALL NEW GUARDRAIL 1-FT. OUTSIDE THE EXISTING GUARDRAIL LOCATION (PROJECT RIGHT). PERFORM GUARDRAIL WIDENING AS NEEDED TO MEET THE REQUIREMENTS OF DETAILED DRAWING NO. 606-05.

REVEGETATION *

STATION FROM	STATION TO	lump sum REVEGE-TATION	REMARKS
MT-200			
0+00.00	161+30.43	0.5	FOR GUARDRAIL END SECTION WIDENING & SHOULDER
SUBTOTAL MT-200		0.5	
MT-135			
0+65.73	584+79.70	0.5	FOR GUARDRAIL END SECTION WIDENING, DITCH GRADING, & SUMP INSTALLATION.
SUBTOTAL MT-135		0.5	
TOTAL		1	STPP STWD(903) FUNDED

* SEE SPECIAL PROVISION.

RUMBLE STRIPS

STATION FROM	STATION TO	miles RUMBLE STRIPS INTER-MITTENT SHOULDER	miles RUMBLE STRIPS SINUSOIDAL CENTERLINE	gals EMULSIFIED ASPHALT FOG SEAL #	REMARKS
26+56.00 B.E.	161+30.43	4.1		481	MT-200 - SHOULDERS LT. & RT. *
26+56.00 B.E.	161+30.43		2.4	282	MT-200 - CENTERLINE **
SUBTOTAL		4.1	2.4	763	
TOTAL		4.1	2.4	~	STPP STWD(903) FUNDED

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS
* SEE DETAIL DRAWING NO. 411-02 FOR STANDARD SHOULDER RUMBLE STRIP CONFIGURATION.
** SEE PROJECT DETAIL FOR SINUSOIDAL CENTERLINE RUMBLE STRIP CONFIGURATION.

SHEET NO. 12

SUMMARY

PROJECT NAME SAINT REGIS-PARADISE
COUNTY SANDERS & MINERAL COUNTIES
PROJECT ID STPP STWD(903)
UPN 10235000

DESIGNED BY M. CORNYN 8/10/2023
REVIEWED BY J. DOLD 8/29/2023
CHECKED BY T. JOHNSON 8/25/2023
10235000RDSUM001.DWG

MONTANA Department of Transportation
ROAD PLANS
9/13/2023 10:59 AM

BRIDGE DECK TREATMENT

STATION		square yards	REMARKS
FROM	TO	BRIDGE DECK CRACK SEAL	
15+54 B.E.	26+56 B.E.	4,898	MT-200 - CLARK FORK RIVER - MDT STR. ID. 05277. RP 82.75
124+39 B.E.	129+01 B.E.	2,053	MT-200 - CLARK FORK RIVER - MDT STR. ID. 05278. RP 84.75
TOTAL		6,951	STPP STWD(903) FUNDED

EQUIPMENT

STATION		hours	REMARKS
FROM	TO	MOTOR GRADER	
10+22	13+34	8	MT-135 RT. - DITCH GRADING AND SUMP INSTALLATION. STATIONING IS USING CL DITCH ALIGNMENT. SEE DETAIL AND CROSS SECTIONS.
TOTAL		8	STPP STWD(903) FUNDED

CRACK SEALING *

STATION		TRANSVERSE & LONGITUDINAL CRACK SEALING		REMARKS
FROM	TO	CRACK SEALING		
		pounds	linear feet	
10+06.00	25+84.00	300	429	COLD CREEK ROAD
COLD CREEK ROAD SUBTOTAL		300	#	
TOTAL		300	#	STATE FUNDED

* SEE DETAIL SHEET
\# FOR INFORMATION ONLY

STORM DRAIN STRUCTURE SCHEDULE

STATION	square yards	cubic yards	each		REMARKS
	SEPARATION GEOTEXTILE	DRAIN AGGREGATE	STORM DRAIN STRUCTURE	DROP INLET FRAME & GRATE	
			SUMP	TYPE 1	
11+77	12	15	1	1	25.08' RT. OF MT-135 CENTERLINE, IN ST. REGIS, AT RP 0.54. STATIONING IS USING CL DITCH ALIGNMENT. SEE DETAIL AND CROSS SECTIONS. GRADE TO DRAIN TO PROPOSED SUMP LOCATION.
TOTAL	# 12	# 15	1	1	STPP STWD(903) FUNDED

\# FOR INFORMATION ONLY. INCLUDED IN THE COST OF THE SUMP.

PAVEMENT MARKINGS

ITEM	UNIT	MT-200 & MT-135 (STPP STWD(903) FUNDED)			COLD CREEK ROAD (STATE FUNDED)			TOTAL
		INTERIM APPLICATION #	FINAL APPLICATION	SUBTOTAL	INTERIM APPLICATION #	FINAL APPLICATION	SUBTOTAL	
STRIPING - WHITE PAINT	gallon	1,140		1,140	11		11	1,151
STRIPING - YELLOW PAINT	gallon	816		816	11		11	827
WORDS & SYMBOLS - WHITE PAINT	gallon	14		14				14
WORDS & SYMBOLS - YELLOW PAINT	gallon	10		10				10
STRIPING - WHITE EPOXY	gallon		1,160	1,160		11	11	1,171
STRIPING - YELLOW EPOXY	gallon		822	822		11	11	833
WORDS & SYMBOLS - WHITE EPOXY	gallon		12	12				12
WORDS & SYMBOLS - YELLOW EPOXY	gallon		7	7				7
CURB MARKING-YELLOW EPOXY	gallon		13	13				13
TEMPORARY STRIPING	linear feet			14,551				14,551
FINAL SWEEP AND BROOM	course mile			0.8				0.8

\# BASED ON 2 APPLICATIONS ON MT-200 AND 1 APPLICATION ON MT-135 AND COLD CREEK ROAD.

SHEET NO.
13

SUMMARY

PROJECT NAME SAINT REGIS-PARADISE
COUNTY SANDERS & MINERAL COUNTIES
PROJECT ID STPP STWD(903)
UPN 10235000

DESIGNED BY	DATE
M. CORNYN	8/10/2023
REVIEWED BY	DATE
J. DOLD	8/29/2023
CHECKED BY	DATE
T. JOHNSON	8/25/2023

1023500RDSUM001.DWG

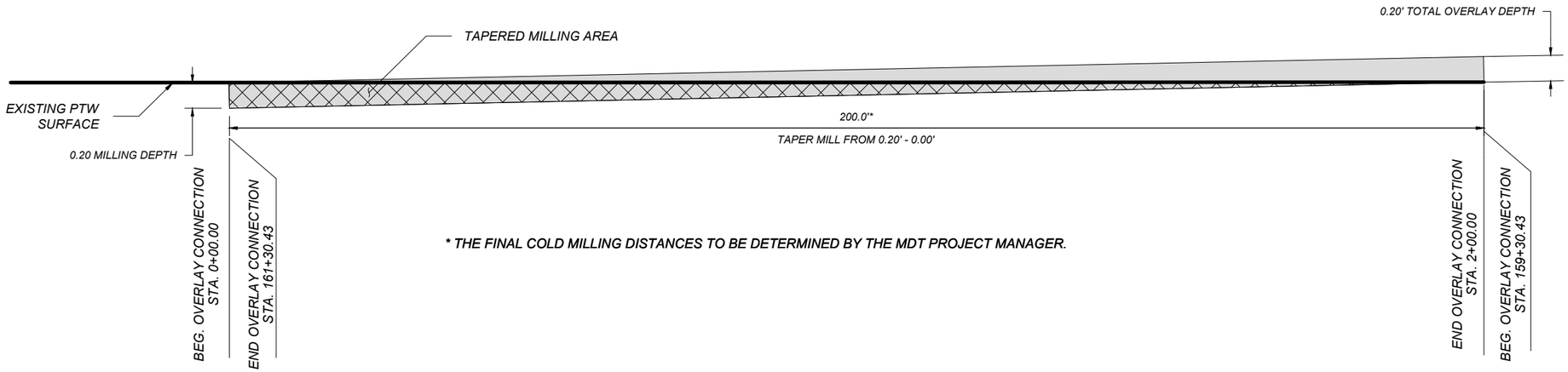
MONTANA Department of Transportation

ROAD PLANS

9/13/2023 10:59 AM

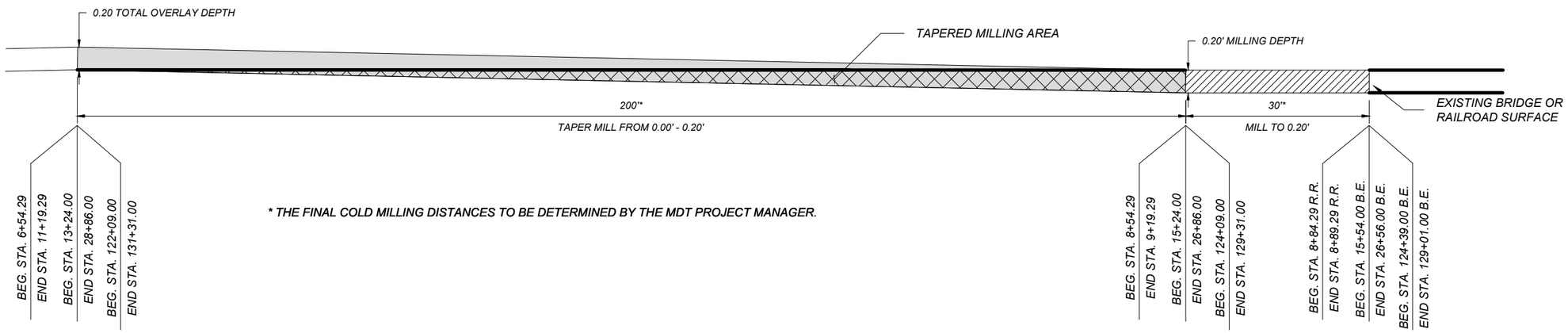
DETAIL

TAPER MILLING CONNECTION TO PTW OVERLAY SECTION
(reverse for opposite end)



* THE FINAL COLD MILLING DISTANCES TO BE DETERMINED BY THE MDT PROJECT MANAGER.

BRIDGE END/RAILROAD MILLING CONNECTION
(reverse for opposite end)



* THE FINAL COLD MILLING DISTANCES TO BE DETERMINED BY THE MDT PROJECT MANAGER.

SHEET NO. 14

PTW/BRIDGE/RAILROAD TAPER MILLING PAVEMENT CONNECTIONS NO SCALE

PROJECT NAME SAINT REGIS-PARADISE
COUNTY SANDERS & MINERAL COUNTIES
PROJECT ID STPP STWD(903)
UPN 10235000

DESIGNED BY	8/10/2023
M. CORNYN	
REVIEWED BY	8/29/2023
J. DOLD	
CHECKED BY	8/25/2023
T. JOHNSON	

1023500RDDET001.DWG

MONTANA Department of Transportation

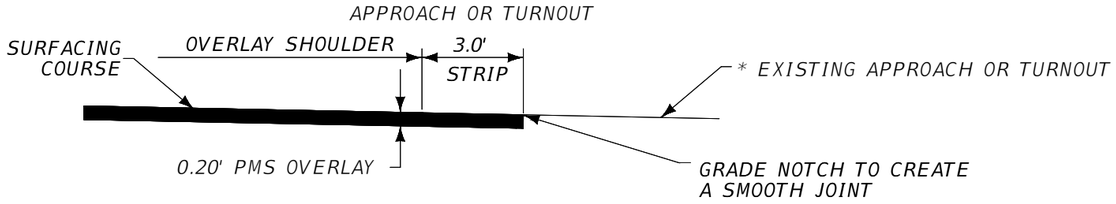
ROAD PLANS

9/5/2023 10:50 AM

DETAIL

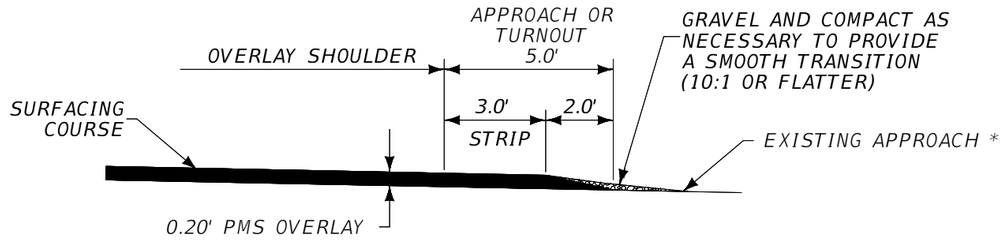
USE METHOD TO BEST FIT FIELD CONDITIONS

OPTION 1 FOR PRIVATE/FARM FIELD & TURNOUTS

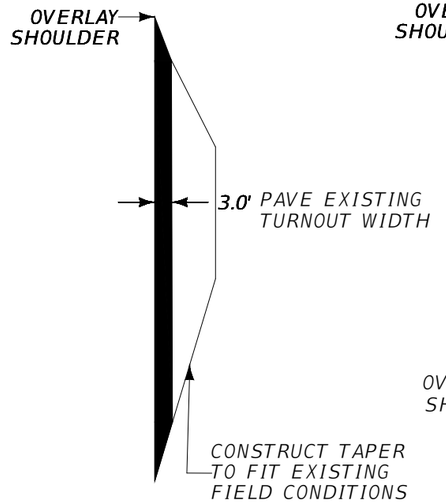


* COLD MILL NOTCH IF EXISTING APPROACH/TURNOUT IS PAVED. THE FINAL COLD MILLING DISTANCES & DEPTH TO BE DETERMINED BY THE MDT PROJECT MANAGER.

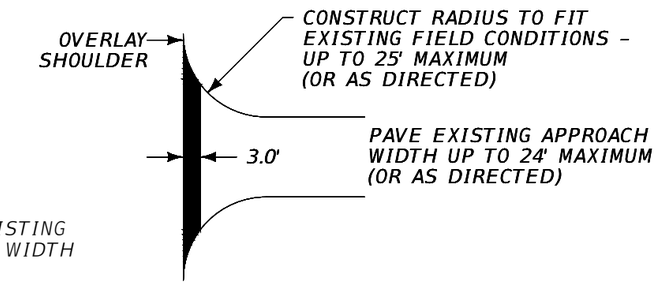
OPTION 2 FOR PRIVATE/FARM FIELD & TURNOUTS



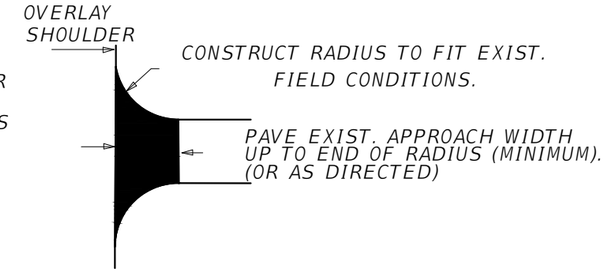
TURNOUTS



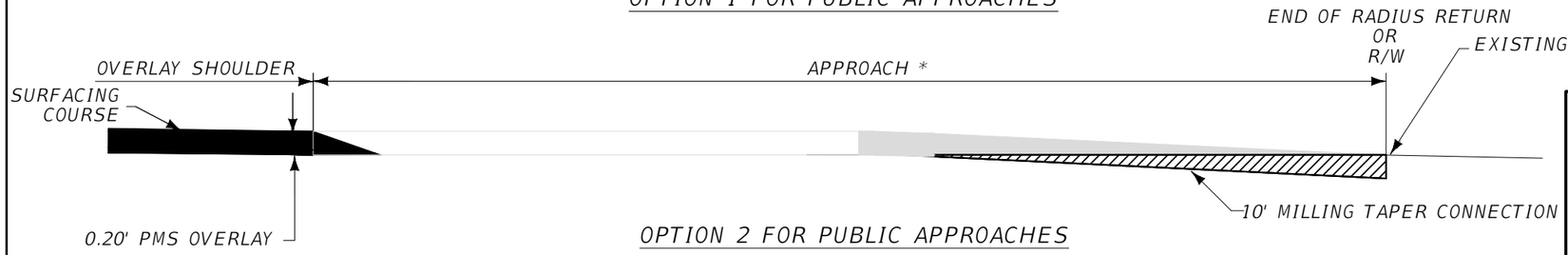
PRIVATE/FARM FIELD



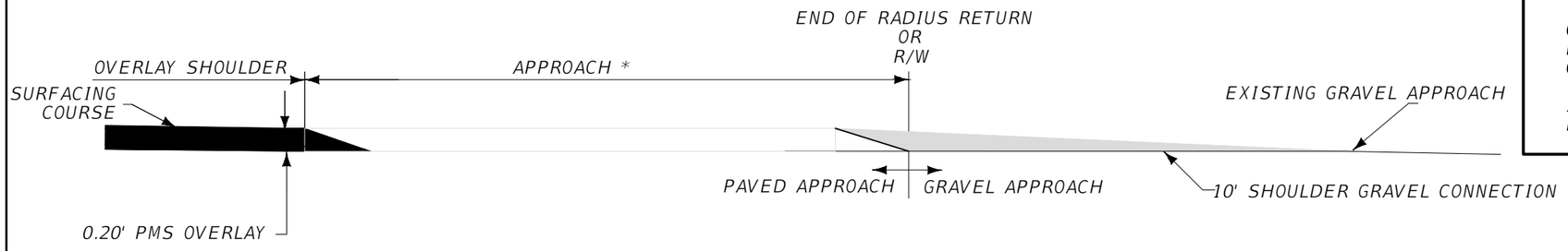
PUBLIC APPROACH



OPTION 1 FOR PUBLIC APPROACHES



OPTION 2 FOR PUBLIC APPROACHES



APPROACH DETAIL ONLY APPLIES WITHIN THE OVERLAY SECTION

*APPROACH PAVING LENGTH AND MILLING TAPER LENGTH IS STATED ELSEWHERE IN THE PLANS OR AS DIRECTED BY PROJECT MANAGER

APPROACH PAVING PREPARATION

IF MINOR SHAPING OF EXISTING APPROACHES IS NECESSARY:

GRADE, GRAVEL AND COMPACT AS NEEDED TO PROVIDE A SATISFACTORY PAVING SURFACE AND AS DIRECTED BY PROJECT MANAGER.

GRAVEL USED FOR APPROACH PREPARATION IS MEASURED AND PAID FOR AS SHOULDER GRAVEL.

INCLUDE ALL OTHER COSTS FOR APPROACH PAVING PREPARATION IN THE PRICE BID FOR PLANT MIX.

SHEET NO. 15

APPROACH/TURNOUT TAPER MILLING PAVING CONNECTIONS NO SCALE

PROJECT NAME SAINT REGIS-PARADISE
COUNTY SANDERS & MINERAL COUNTIES
PROJECT ID STPP STWD(903)
UPN 10235000

DESIGNED BY	8/10/2023	M. CORNYN	
REVIEWED BY	8/29/2023	J. DOLD	
CHECKED BY	8/25/2023	T. JOHNSON	10235000RDDET001.DWG

MONTANA Department of Transportation

ROAD PLANS

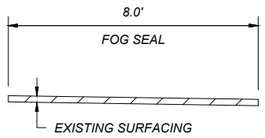
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AWARD COPY

DETAIL

TYPICAL SECTION
SHARED-USE PATH
MT-135 RT.

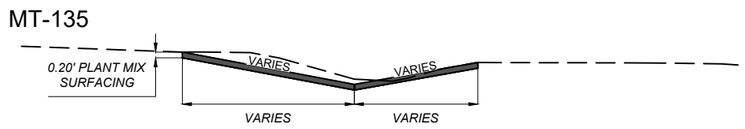
STA. 4+59.32
STA. 40+33.19 Bk TO STA. 37+61.87 Ah
TO STA. 40+48.24



QUANTITIES	
UNIT	BITUMINOUS MATERIAL
	EMULSIFIED ASPHALT FOG SEAL
square yards PER STATION	89
tons PER STATION	
gals. PER STATION	7

TYPICAL SECTION
DITCH GRADING & PAVING
MT-135 RT.

STA. 10+22.46 TO STA. 13+33.77



NOTE: SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION. PERFORM SITE GRADING AS NEEDED ON THE SUBGRADE SURFACE TO PROVIDE A UNIFORM AND COMPACT SURFACE FOR PAVING. QUANTITIES MEASURED IN CAD.

SHEET NO. 16

SHARED-USE PATH & DITCH GRADING & PAVING
MT-135 RT. (EAST)
NO SCALE

PROJECT NAME SAINT REGIS-PARADISE
COUNTY SANDERS & MINERAL COUNTIES
PROJECT ID STPP STWD(903)
UPN 10235000

DESIGNED BY	8/10/2023
M. CORNYN	
REVIEWED BY	8/29/2023
J. DOLD	
CHECKED BY	8/25/2023
T. JOHNSON	

MONTANA Department of Transportation

ROAD PLANS

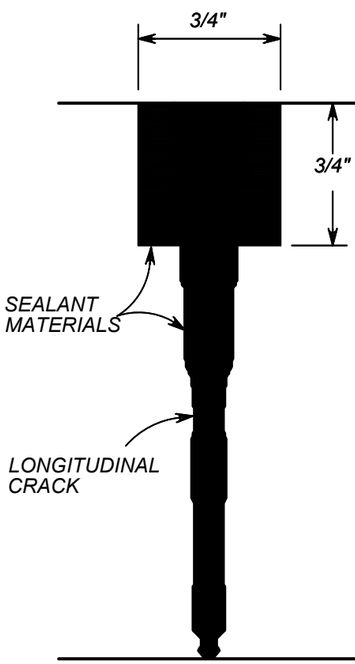
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DETAIL

CRACKS 1/8" TO 1.5" WIDE

LONGITUDINAL CRACK

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

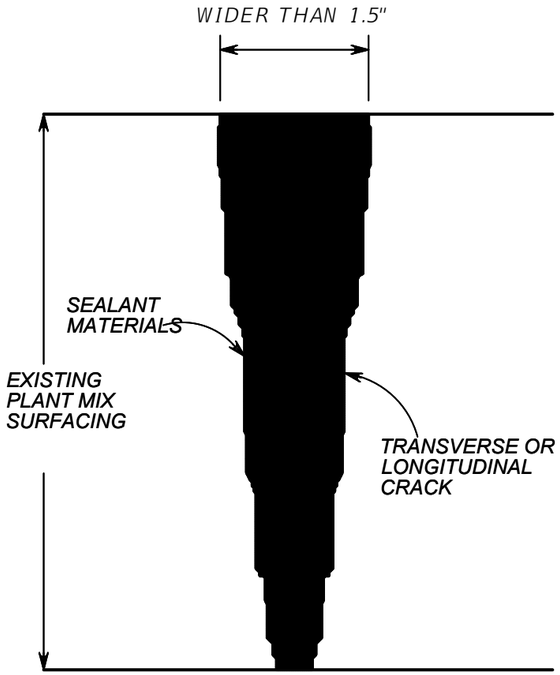


TRANSVERSE CRACK

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

CRACKS 1.5" OR WIDER
MASTIC REQUIRED

LEAVE EXISTING CRACK SEAL IN PLACE



SHEET NO.
17

CRACK SEALING
NO SCALE

PROJECT NAME SAINT REGIS-PARADISE
COUNTY SANDERS & MINERAL COUNTIES
PROJECT ID STPP STWD(903)
UPN 10235000

DESIGNED BY	8/10/2023
M. CORNYN	
REVIEWED BY	8/29/2023
J. DOLD	
CHECKED BY	8/25/2023
T. JOHNSON	

10235000RDDET001.DWG

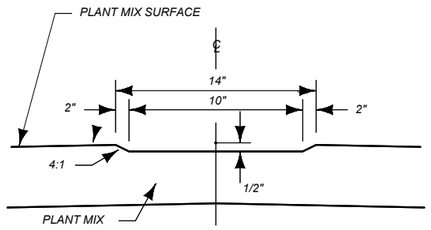
MONTANA
Department of Transportation

ROAD PLANS

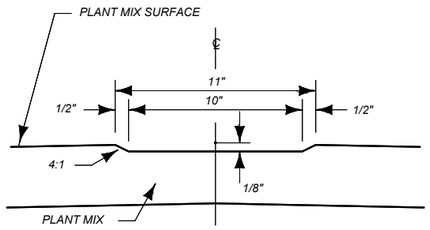
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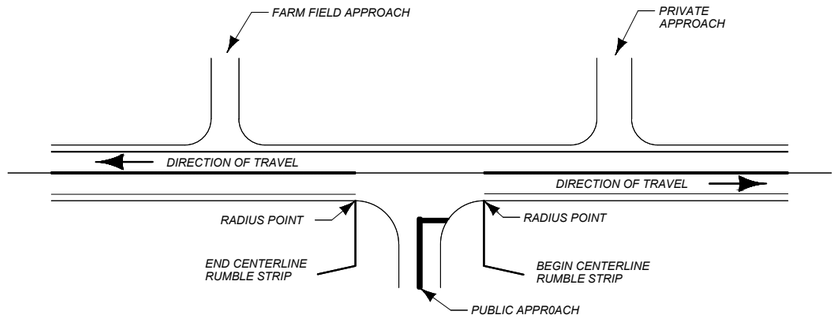
DETAIL



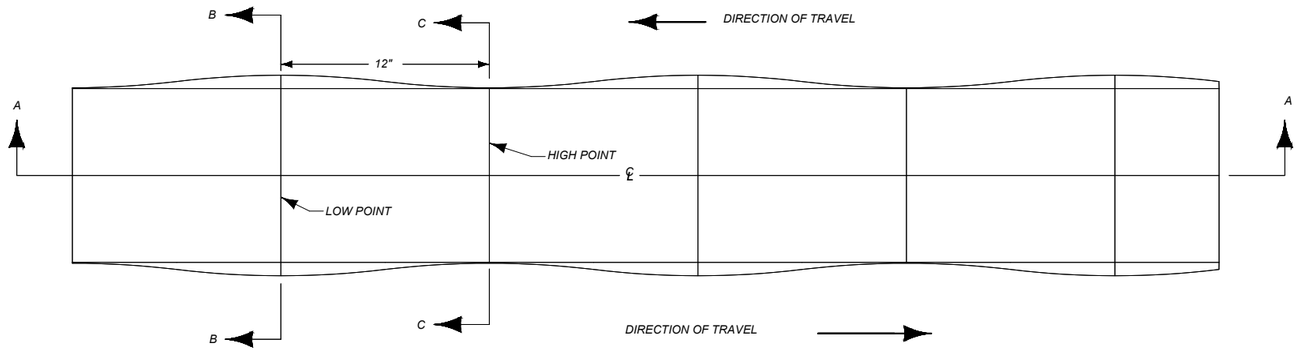
SECTION B-B



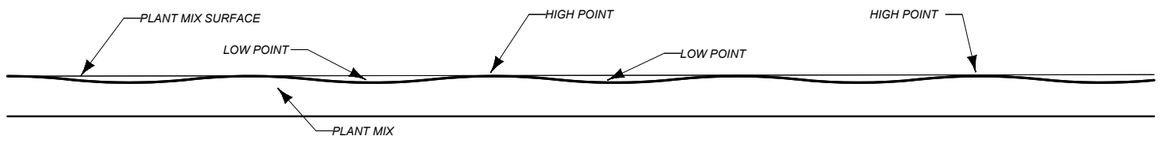
SECTION C-C



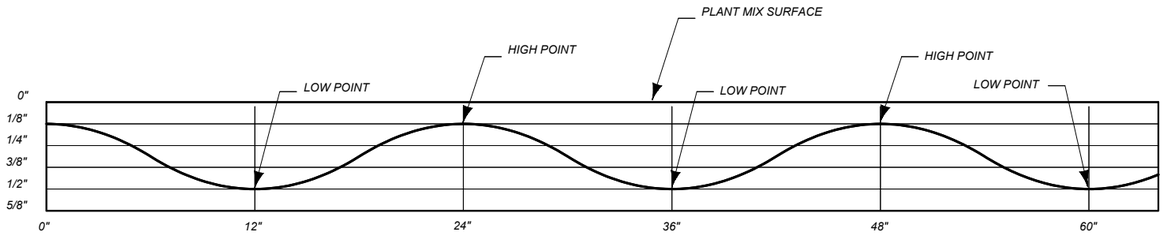
SINUSOIDAL CENTERLINE RUMBLE STRIP APPROACH DETAIL



SINUSOIDAL CENTERLINE RUMBLE STRIP WITH TAPERED GROOVE PLAN VIEW

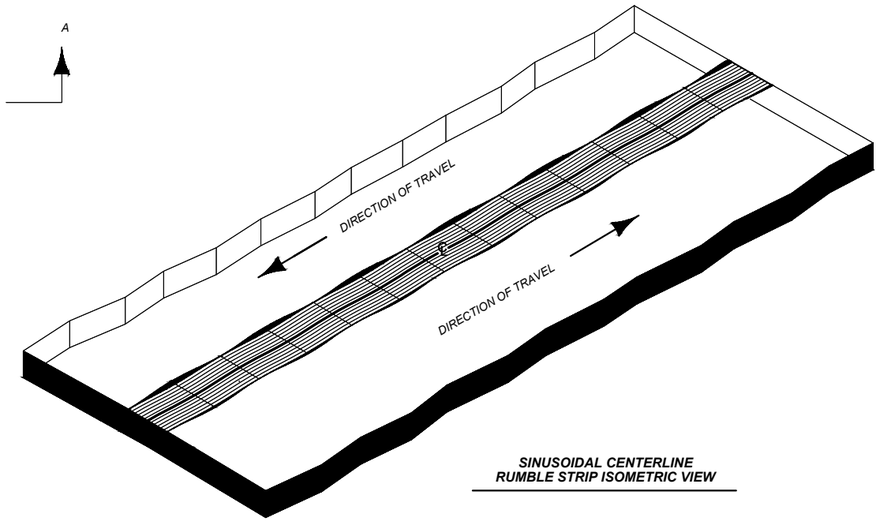


SECTION A-A



SINUSOIDAL CENTERLINE RUMBLE STRIP PROFILE VIEW

EXAGGERATED VERTICAL SCALE 10:1



SINUSOIDAL CENTERLINE RUMBLE STRIP ISOMETRIC VIEW

NOTES:

BREAK SINUSOIDAL CENTERLINE RUMBLE STRIPS FOR PUBLIC APPROACHES ONLY.

DO NOT INSTALL SINUSOIDAL CENTERLINE RUMBLE STRIPS ON CONCRETE BRIDGE DECKS AND CONCRETE BRIDGE APPROACH SLABS.

DO NOT INSTALL SINUSOIDAL CENTERLINE RUMBLE STRIPS IN AREAS POSTED AT 45 MPH OR LESS.

ROUTES WITHIN DESIGNATED CITY OR URBAN LIMITS USE ENGINEERING JUDGEMENT ON A CASE BY CASE BASIS TO DETERMINE IF SINUSOIDAL CENTERLINE RUMBLE STRIP INSTALLATION IS APPROPRIATE.

MINIMUM VERTICAL MILLING DEPTHS AND DIFFERENCE BETWEEN MILLING HIGH POINTS AND LOW POINTS SHOWN IN DETAIL. ADDITIONAL 1/8" DEPTH OF MILLING IS ALLOWABLE ON INSTALLATION OF SINUSOIDAL CENTERLINE RUMBLE STRIP.

SEE DETAILED DRAWING 620-30 FOR CENTERLINE RUMBLE STRIP PAVEMENT MARKING INFORMATION.

SHEET NO.
18

SINUSOIDAL CENTERLINE RUMBLE STRIPS
NO SCALE

PROJECT NAME: SAINT REGIS-PARADISE
COUNTY: SANDERS & MINERAL COUNTIES
PROJECT ID: STPP STWD(903)
UPN: 10235000

DESIGNED BY	8/10/2023	REVIEWED BY	8/29/2023
M. CORNYN		J. DOLD	
CHECKED BY	8/25/2023		
T. JOHNSON			

MONTANA
Department of Transportation

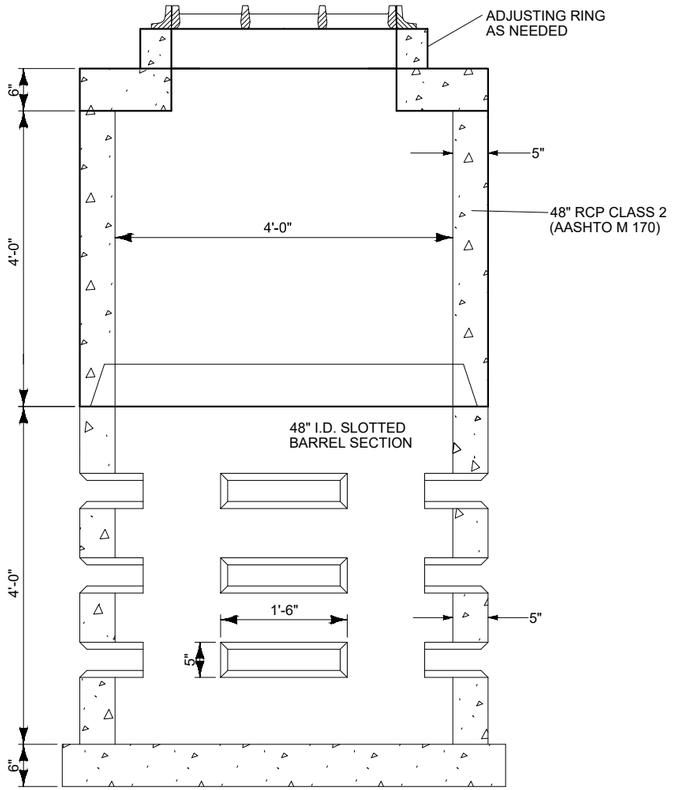
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AWARD COPY

DETAIL

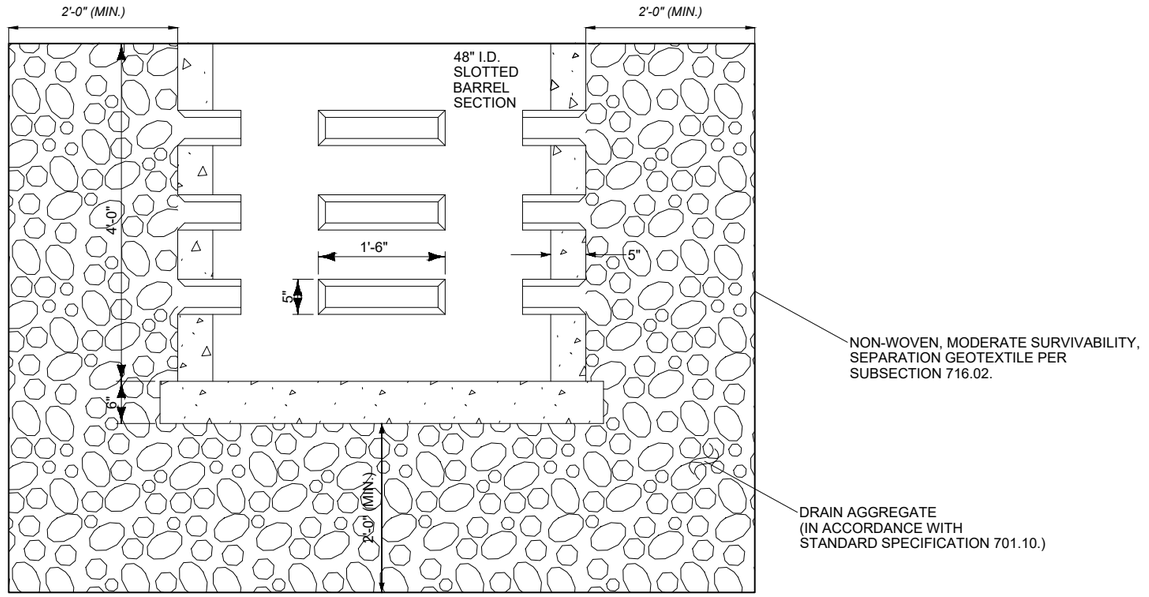


TYPE 1 DROP INLET W/ SLOTTED BARREL SUMP DETAIL
(STA. 11+76.77, OFFSET 0.0')

NOTES: ① SEE PLANS FOR LOCATIONS AND QUANTITIES.

② PLAN STATION AND OFFSET FOR TYPE 1 DROP INLET IS CENTER OF STRUCTURE

③ SET ALL FINAL INLET GRATE ELEVATIONS TO ENSURE THAT POSITIVE DRAINAGE IS PROVIDED.



SUMP BEDDING DETAIL

SHEET NO. 19

TYPE 1 DROP INLET W/ SLOTTED BARREL SUMP NO SCALE

PROJECT NAME SAINT REGIS-PARADISE
COUNTY SANDERS & MINERAL COUNTIES
PROJECT ID STPP STWD(903)
UPN 10235000

DESIGNED BY	M. CORNYN	8/10/2023	
REVIEWED BY	J. DOLD	8/29/2023	
CHECKED BY	T. JOHNSON	8/25/2023	

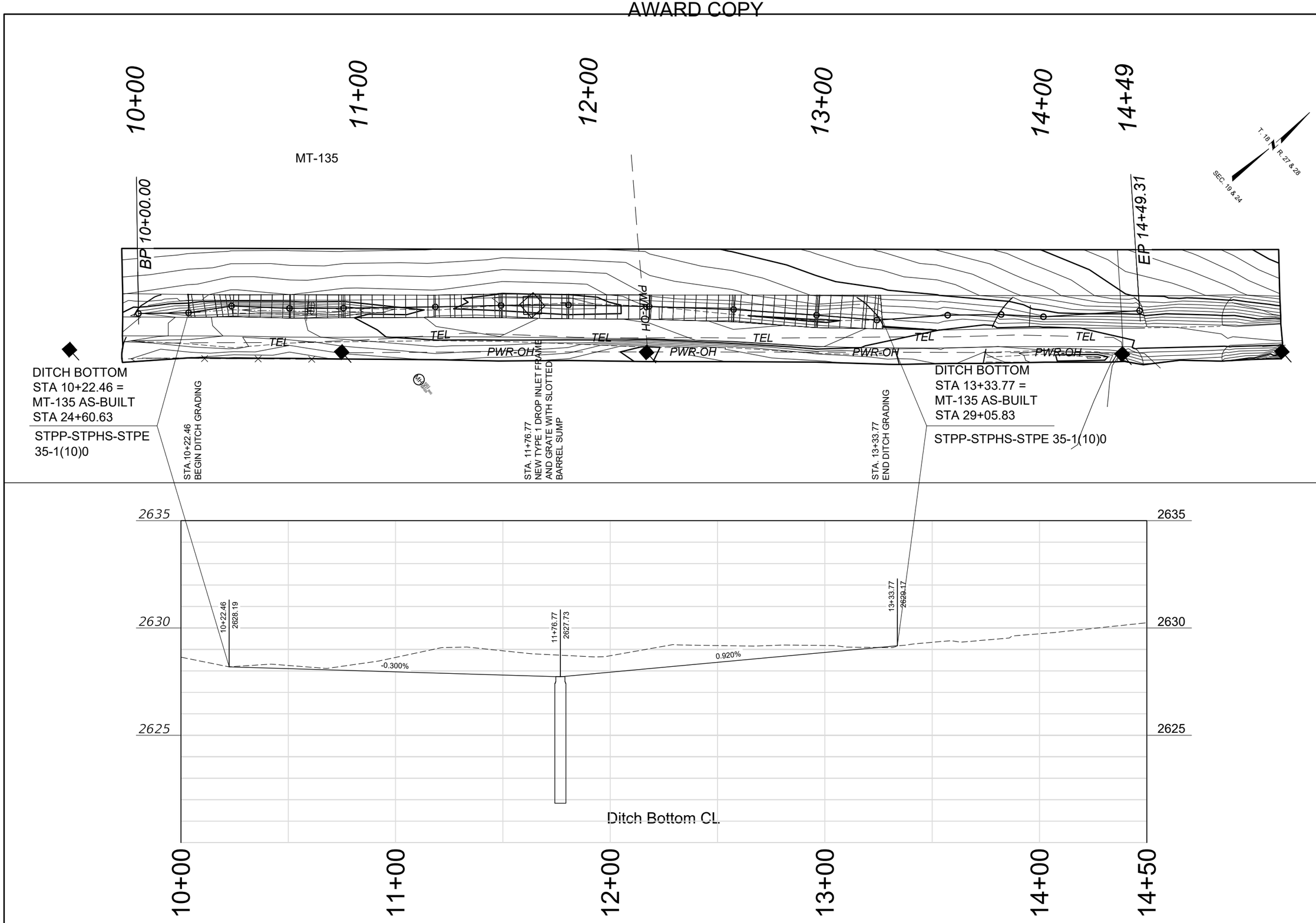
MONTANA Department of Transportation

ROAD PLANS

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AWARD COPY



SHEET NO. 20

MT-135 PAVED DITCH RT. PLAN & PROFILE

PROJECT NAME: SAINT REGIS-PARADISE
COUNTY: SANDERS & MINERAL COUNTIES
PROJECT ID: STPP STWD(903)
UPN: 10235000

DESIGNED BY	REVIEWED BY	CHECKED BY
M. CORNYN 8/10/2023	J. DOLD 8/29/2023	T. JOHNSON 8/25/2023

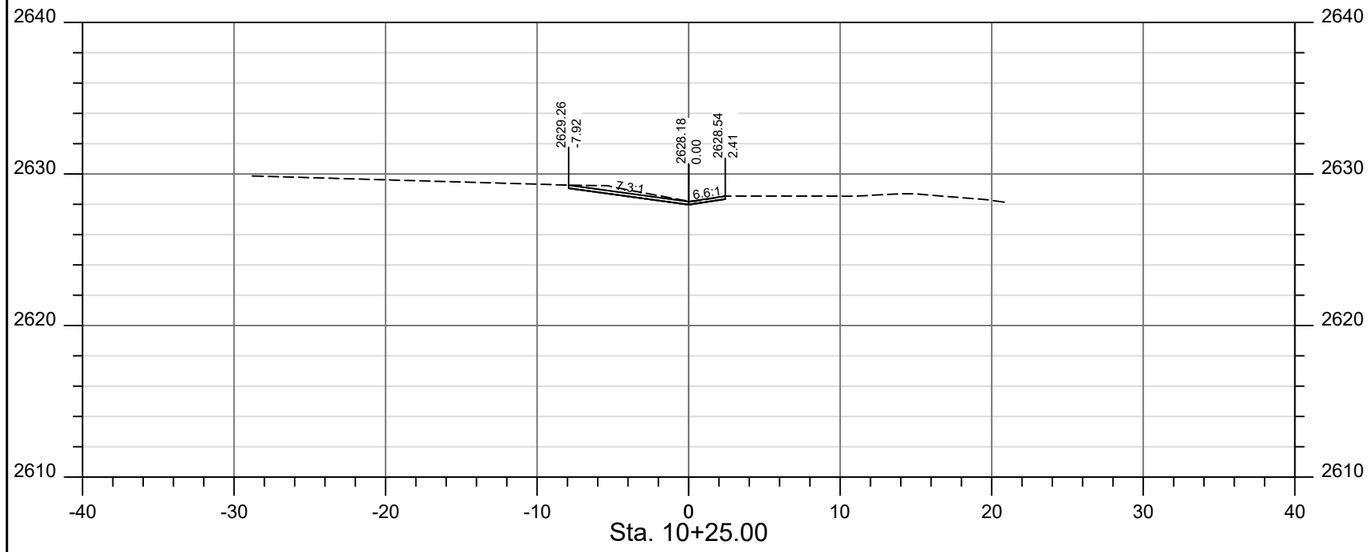
MONTANA Department of Transportation

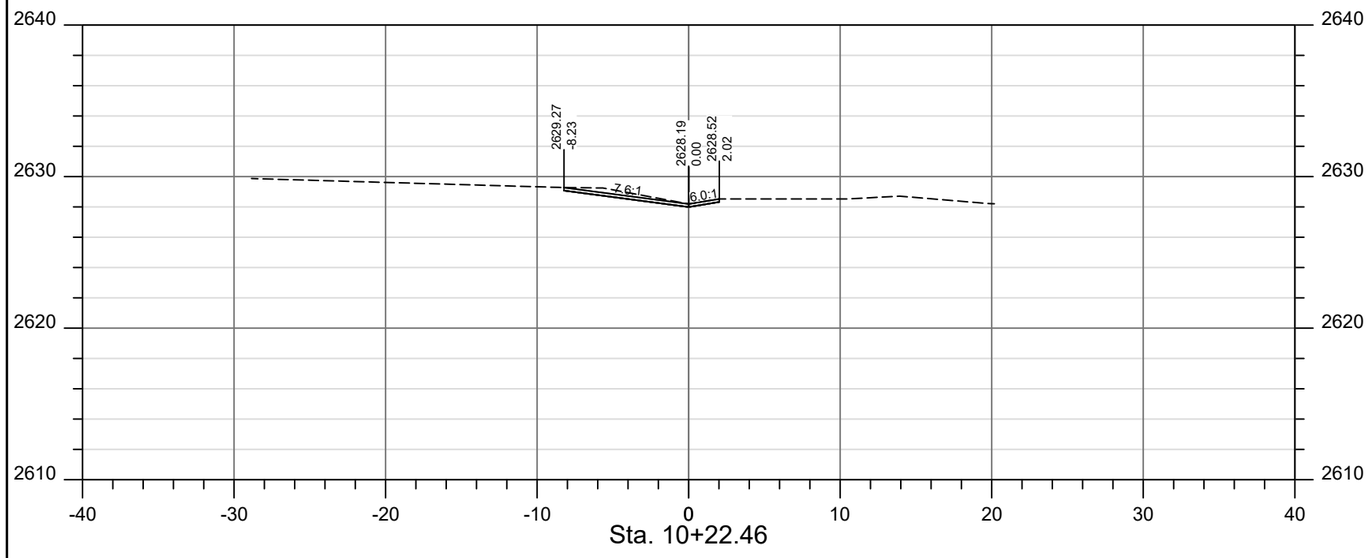
ROAD PLANS

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AWARD COPY





STA 10+22.46 TO 13+33.77
BEGIN DITCH GRADING RT. OF MAINLINE
60 CUYD UNCL. EXC.

SHEET NO. 21

CROSS SECTIONS

PROJECT NAME: SAINT REGIS-PARADISE
COUNTY: SANDERS & MINERAL COUNTIES
PROJECT ID: STPP STWD(903)
UPN: 10235000

DESIGNED BY	8/10/2023	M. CORNYN	
REVIEWED BY	8/29/2023	J. DOLD	
CHECKED BY	8/25/2023	T. JOHNSON	

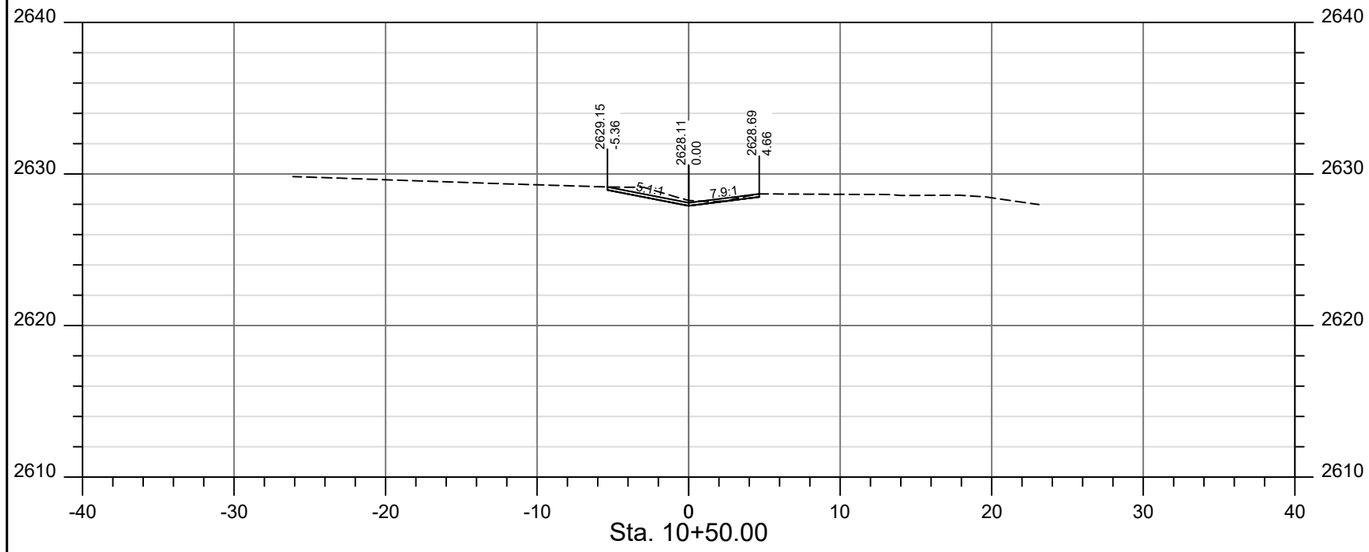
MONTANA Department of Transportation

CROSS SECTIONS

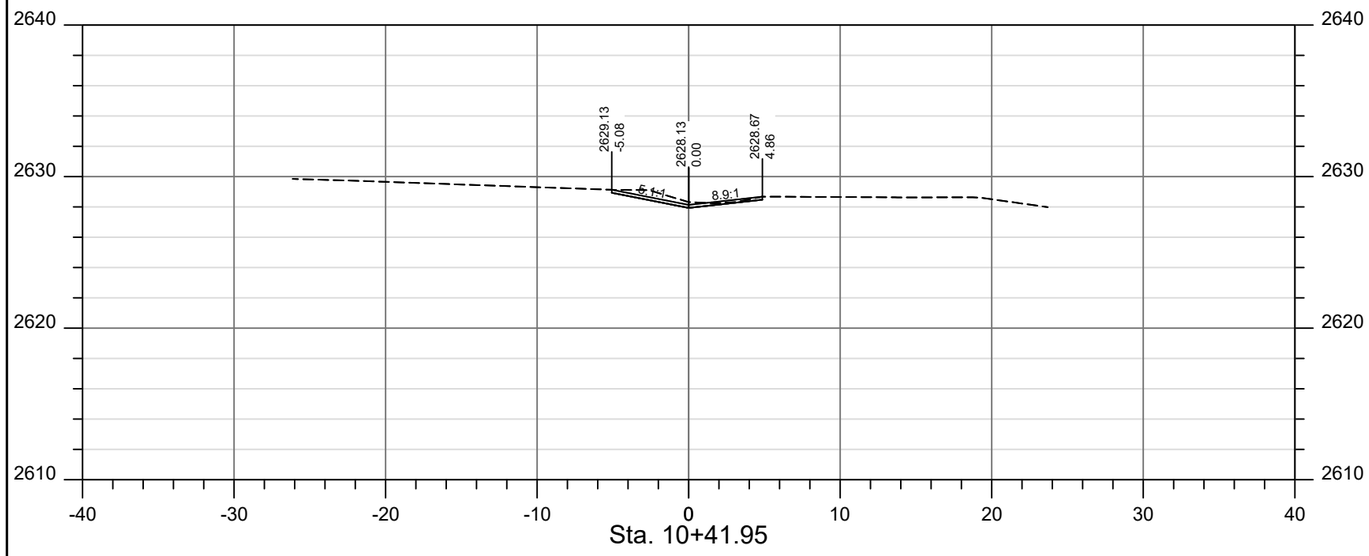
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1023500RDMAP001.DWG

AWARD COPY



Sta. 10+50.00



Sta. 10+41.95

SHEET NO. 22

CROSS SECTIONS

PROJECT NAME: SAINT REGIS-PARADISE

COUNTY: SANDERS & MINERAL COUNTIES

PROJECT ID: STPP STWD(903)

UPN: 10235000

DESIGNED BY	DATE
M. CORNYN	8/10/2023
REVIEWED BY	DATE
J. DOLD	8/29/2023
CHECKED BY	DATE
T. JOHNSON	8/25/2023

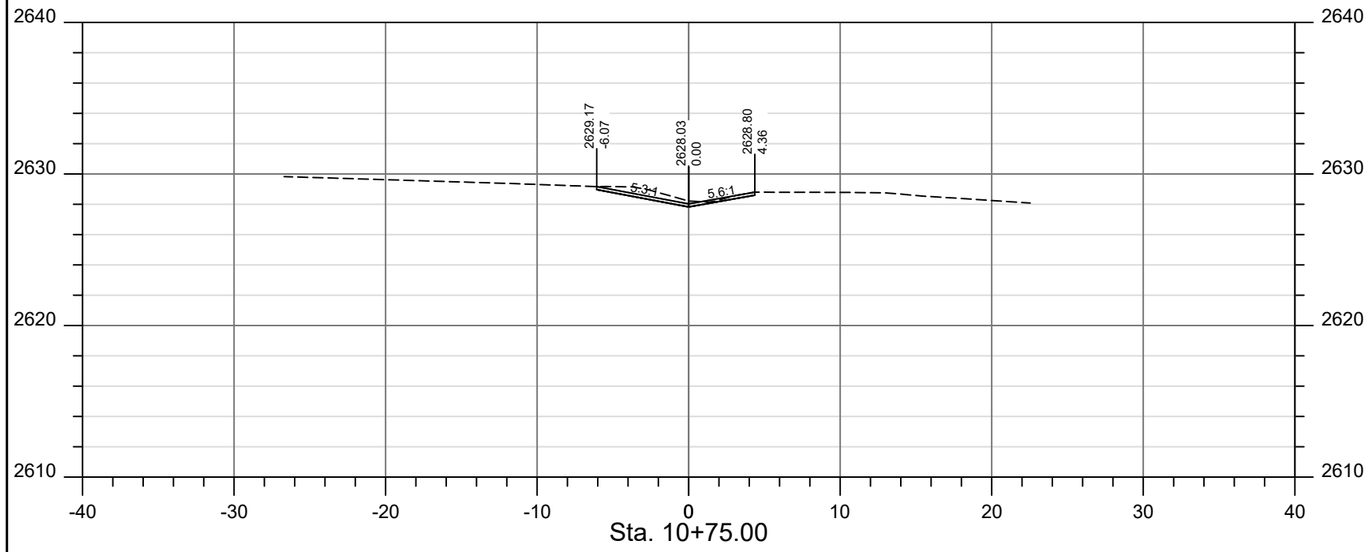
MONTANA Department of Transportation

CROSS SECTIONS

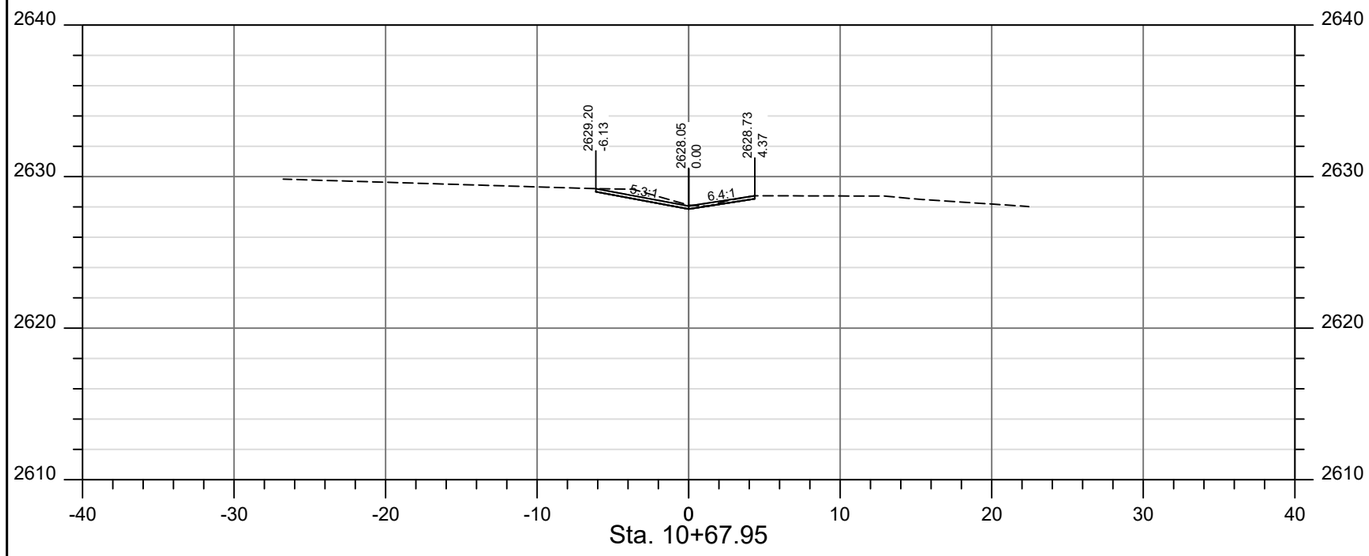
9/5/2023 11:19 AM

1023500RDMAP001.DWG

AWARD COPY



Sta. 10+75.00



Sta. 10+67.95

SHEET NO.
23

CROSS SECTIONS

PROJECT NAME: SAINT REGIS-PARADISE
COUNTY: SANDERS & MINERAL COUNTIES
PROJECT ID: STPP STWD(903)
UPN: 10235000

DESIGNED BY	8/10/2023
M. CORNYN	
REVIEWED BY	8/29/2023
J. DOLD	
CHECKED BY	8/25/2023
T. JOHNSON	

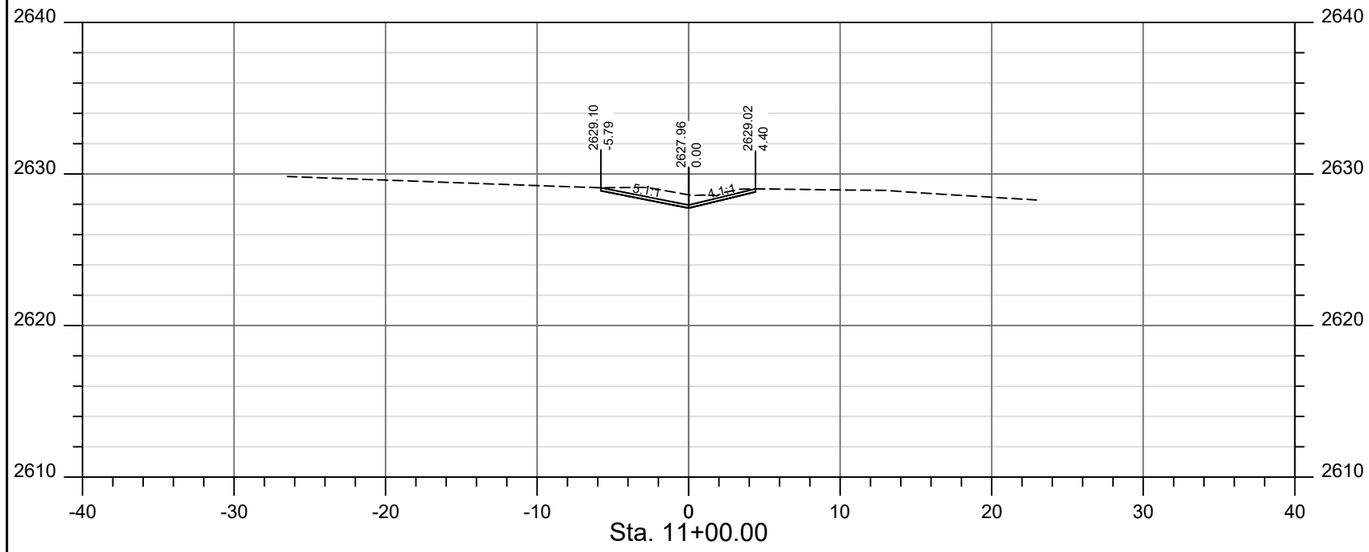
1023500RDMAP001.DWG

MONTANA
Department of Transportation

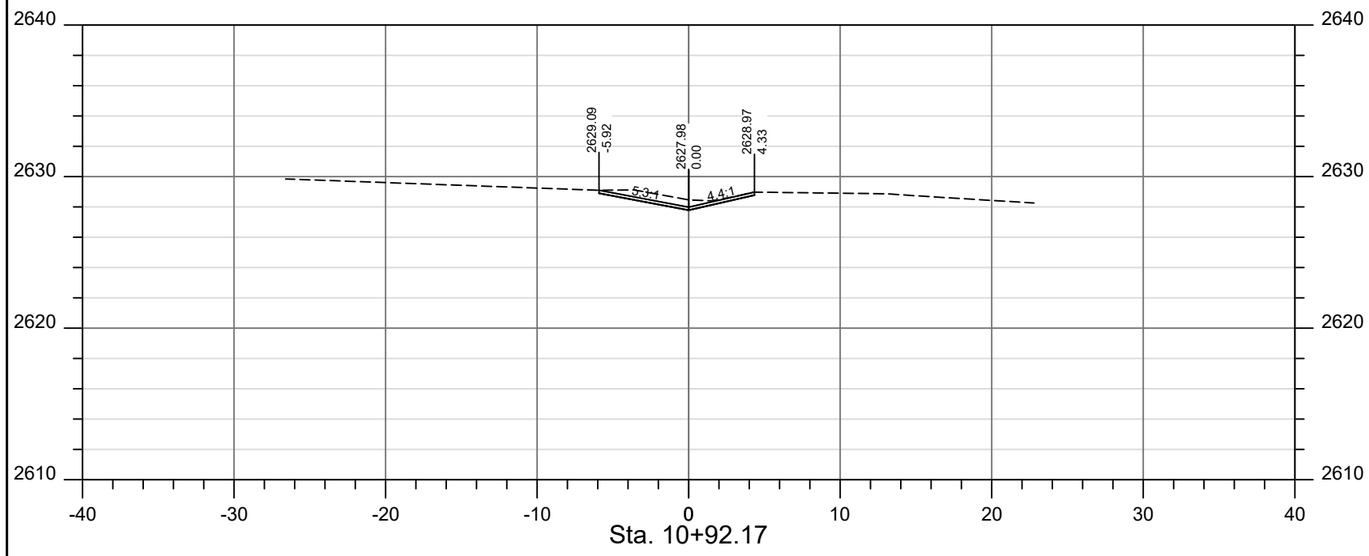
CROSS SECTIONS

9/5/2023 11:19 AM

AWARD COPY



Sta. 11+00.00



Sta. 10+92.17

SHEET NO.
24

CROSS SECTIONS

PROJECT NAME: SAINT REGIS-PARADISE
COUNTY: SANDERS & MINERAL COUNTIES
PROJECT ID: STPP STWD(903)
UPN: 10235000

DESIGNED BY	REVIEWED BY	CHECKED BY
M. CORNYN	J. DOLD	T. JOHNSON
8/10/2023	8/29/2023	8/25/2023

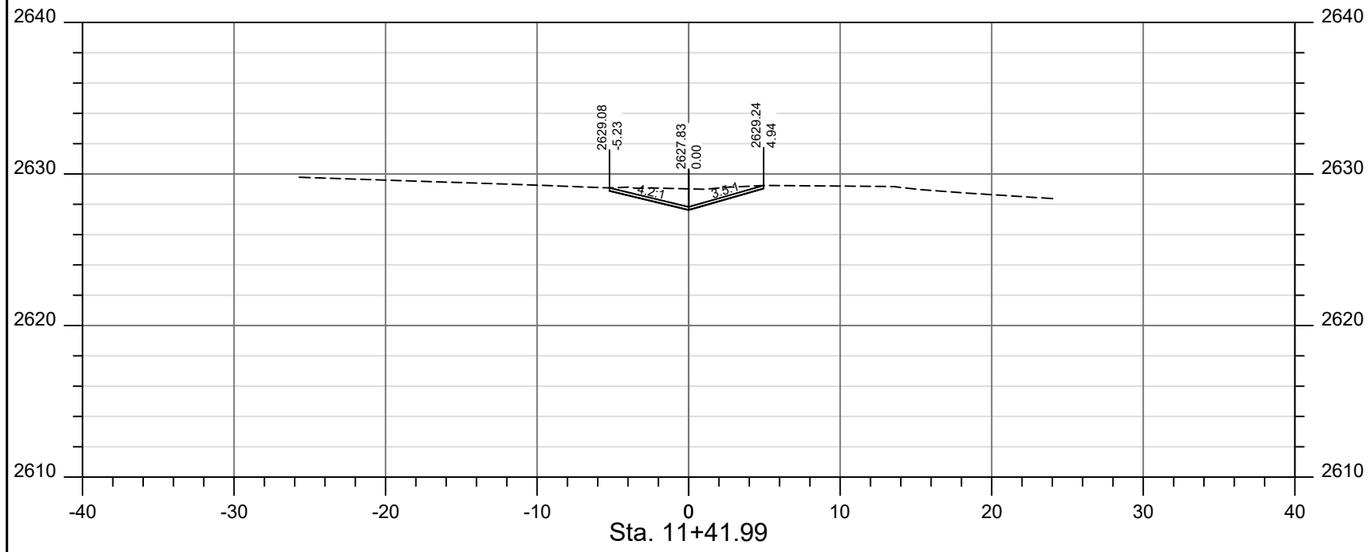
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MONTANA
Department of Transportation

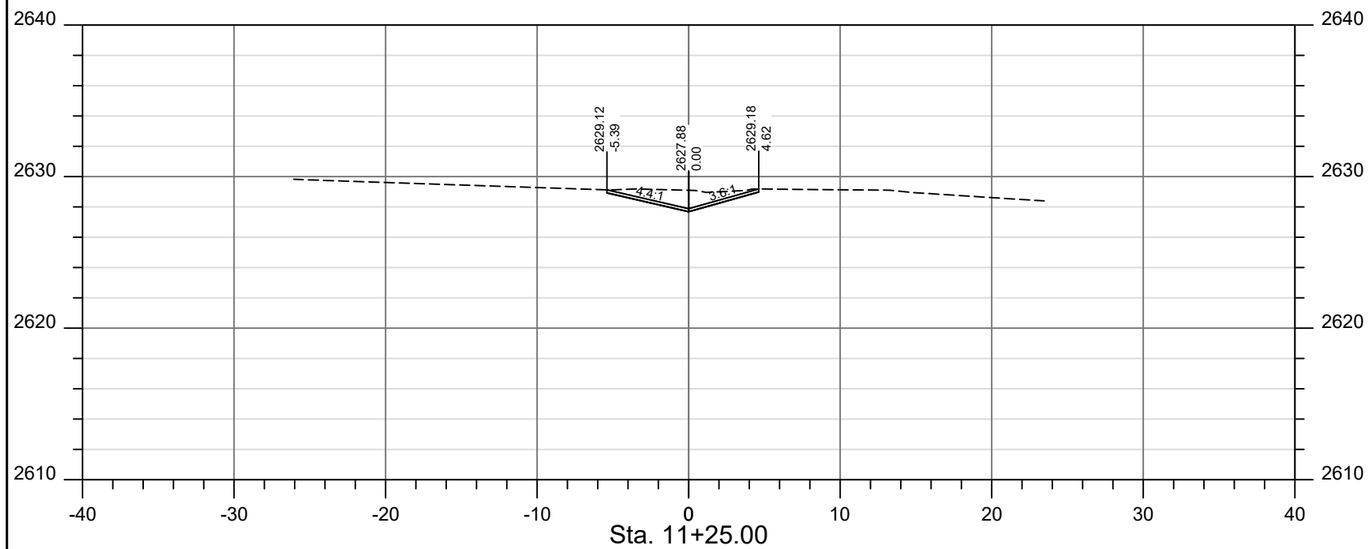
CROSS SECTIONS

9/5/2023 11:19 AM

AWARD COPY



Sta. 11+41.99



Sta. 11+25.00

SHEET NO. 25

CROSS SECTIONS

PROJECT NAME SAINT REGIS-PARADISE

COUNTY SANDERS & MINERAL COUNTIES

PROJECT ID STPP STWD(903)

UPN 10235000

DESIGNED BY	8/10/2023
M. CORNYN	
REVIEWED BY	8/29/2023
J. DOLD	
CHECKED BY	8/25/2023
T. JOHNSON	

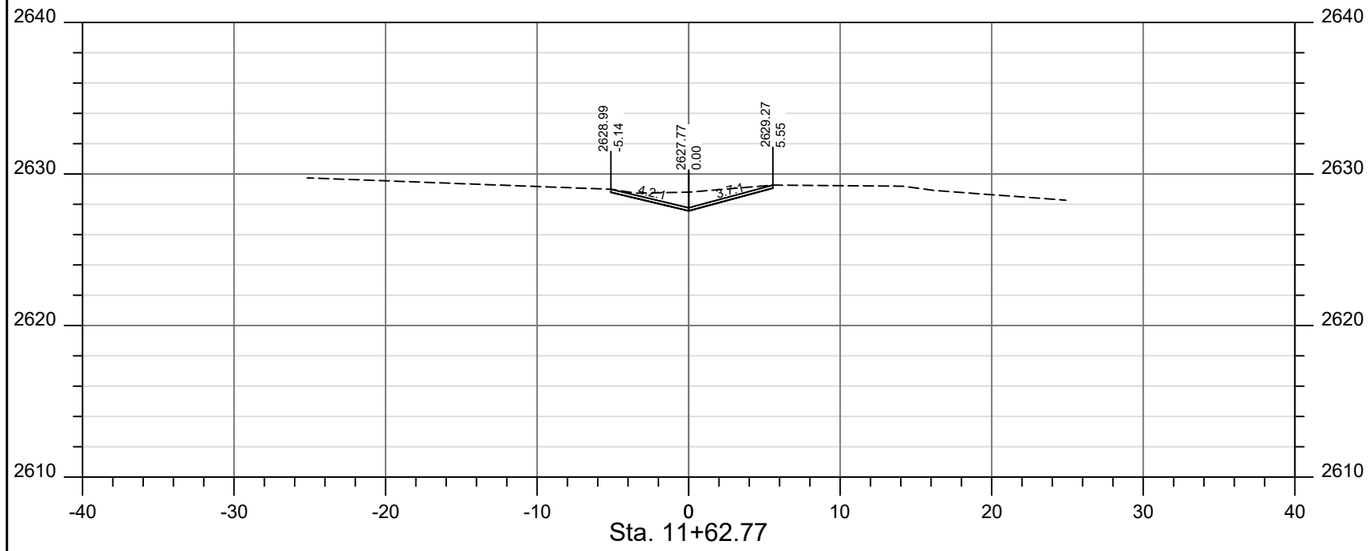
MONTANA Department of Transportation

CROSS SECTIONS

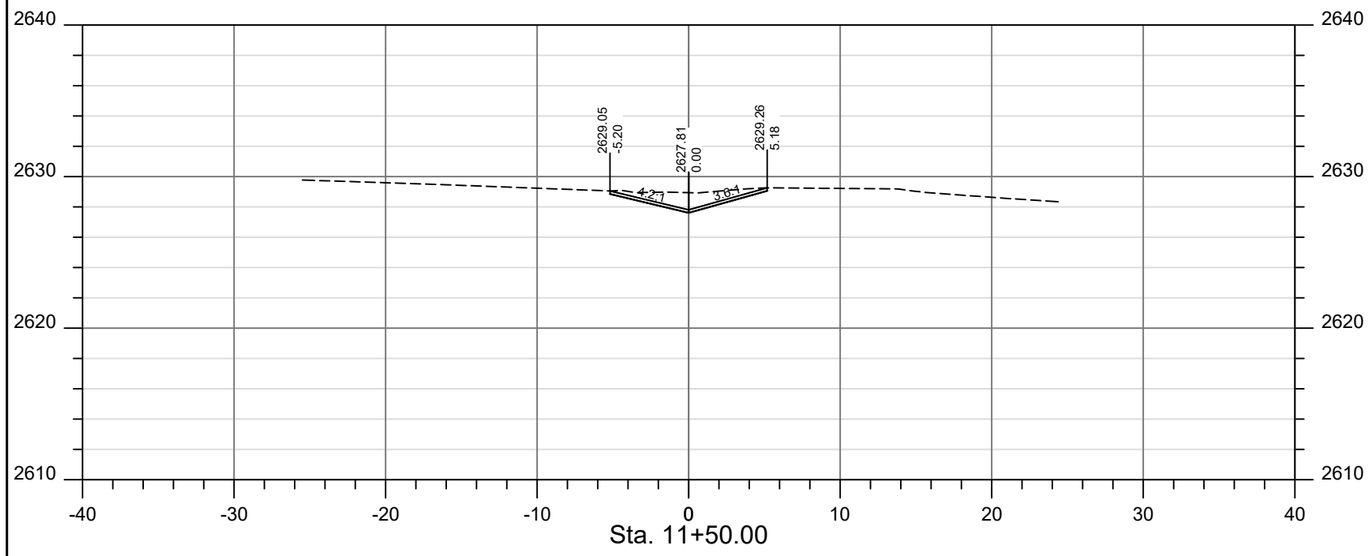
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1023500RDMAP001.DWG

AWARD COPY



Sta. 11+62.77



Sta. 11+50.00

SHEET NO.
26

CROSS SECTIONS

PROJECT NAME: SAINT REGIS-PARADISE
COUNTY: SANDERS & MINERAL COUNTIES
PROJECT ID: STPP STWD(903)
UPN: 10235000

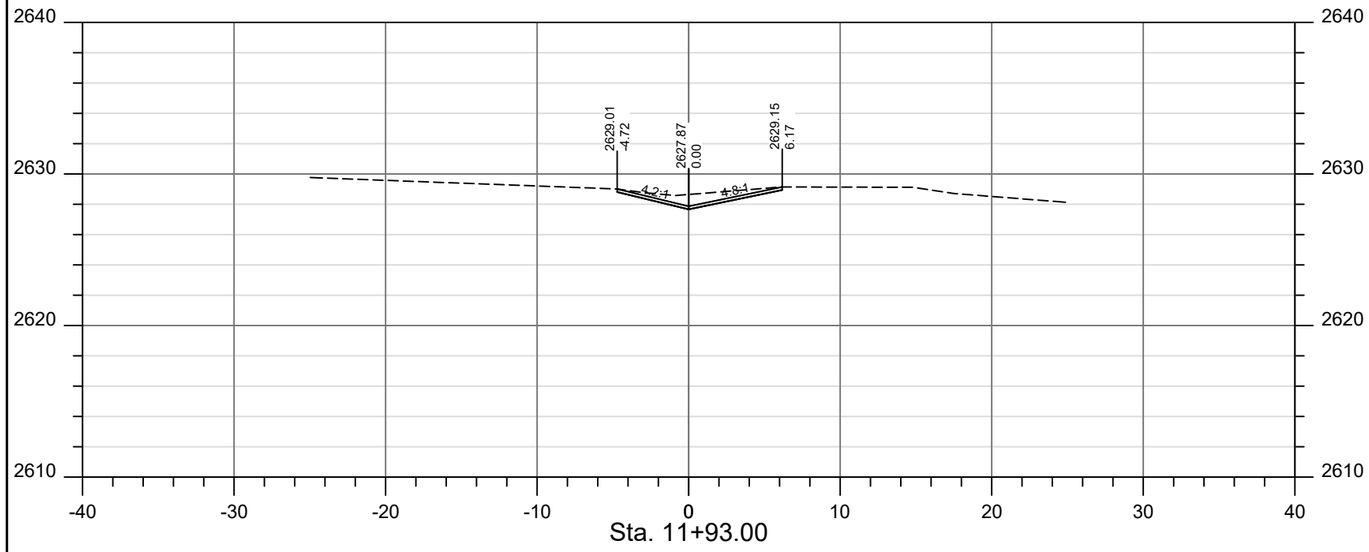
DESIGNED BY	8/10/2023
M. CORNYN	
REVIEWED BY	8/29/2023
J. DOLD	
CHECKED BY	8/25/2023
T. JOHNSON	

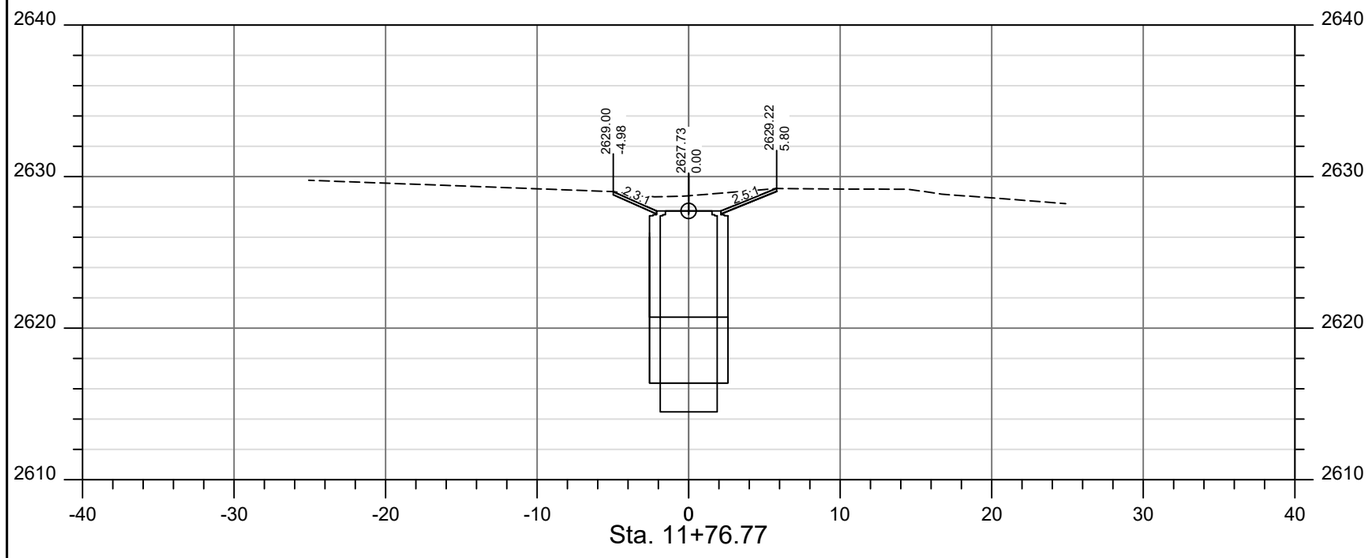
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MONTANA
Department of Transportation

CROSS SECTIONS

9/5/2023 11:19 AM





STA 11+76.77
NEW TYPE 1 DROP INLET FRAME AND GRATE
WITH SLOTTED BARREL SUMP
15 CUYD DRAIN AGGREGATE
12 SQYD SEPARATION GEOTEXTILE

SHEET NO.
27

CROSS SECTIONS

PROJECT NAME: SAINT REGIS-PARADISE
COUNTY: SANDERS & MINERAL COUNTIES
PROJECT ID: STPP STWD(903)
UPN: 10235000

DESIGNED BY	8/10/2023
M. CORNYN	
REVIEWED BY	8/29/2023
J. DOLD	
CHECKED BY	8/25/2023
T. JOHNSON	

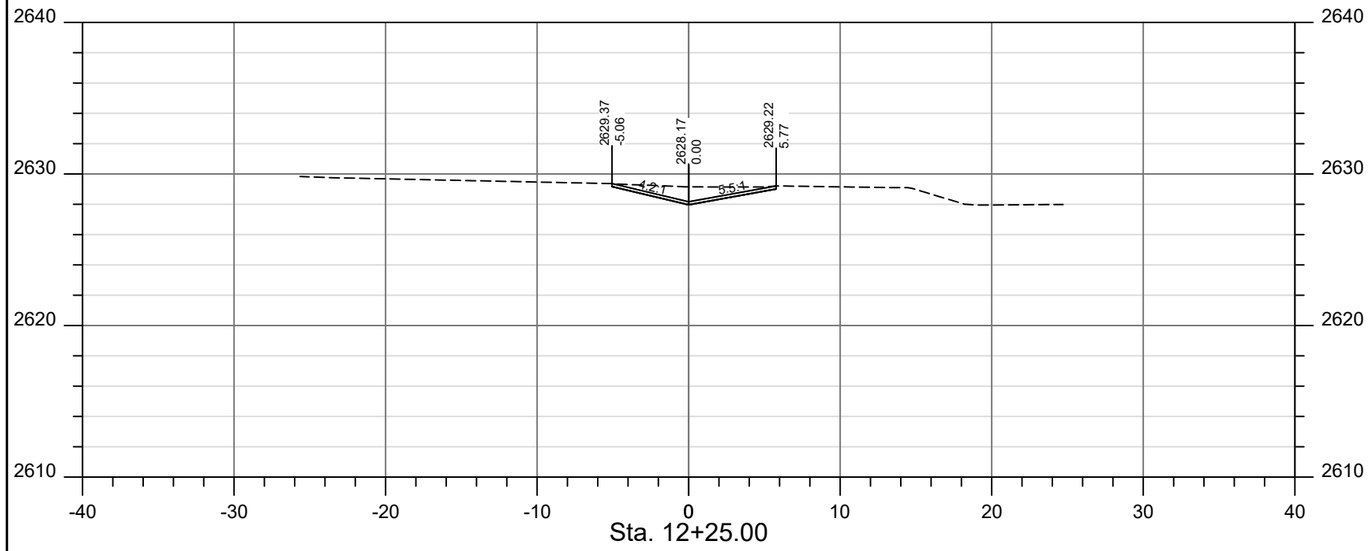
MONTANA
Department of Transportation

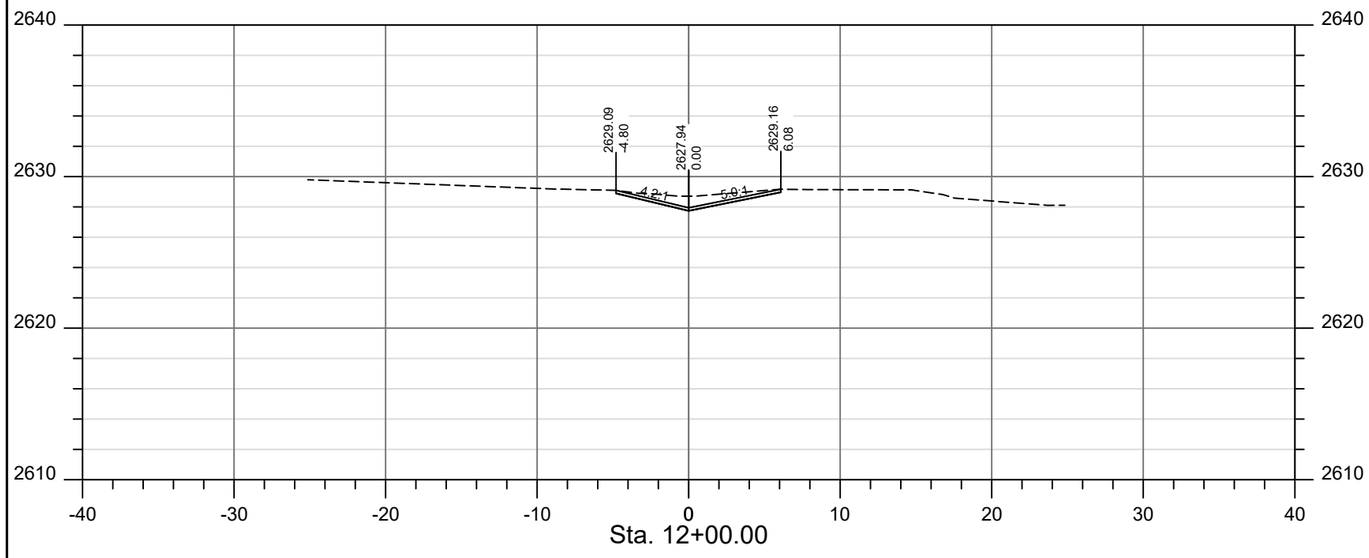
CROSS SECTIONS

9/5/2023 11:19 AM

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SHEET NO. 28

CROSS SECTIONS

PROJECT NAME: SAINT REGIS-PARADISE
COUNTY: SANDERS & MINERAL COUNTIES
PROJECT ID: STPP STWD(903)
UPN: 10235000

DESIGNED BY	REVIEWED BY	CHECKED BY
M. CORNYN 8/10/2023	J. DOLD 8/29/2023	T. JOHNSON 8/25/2023

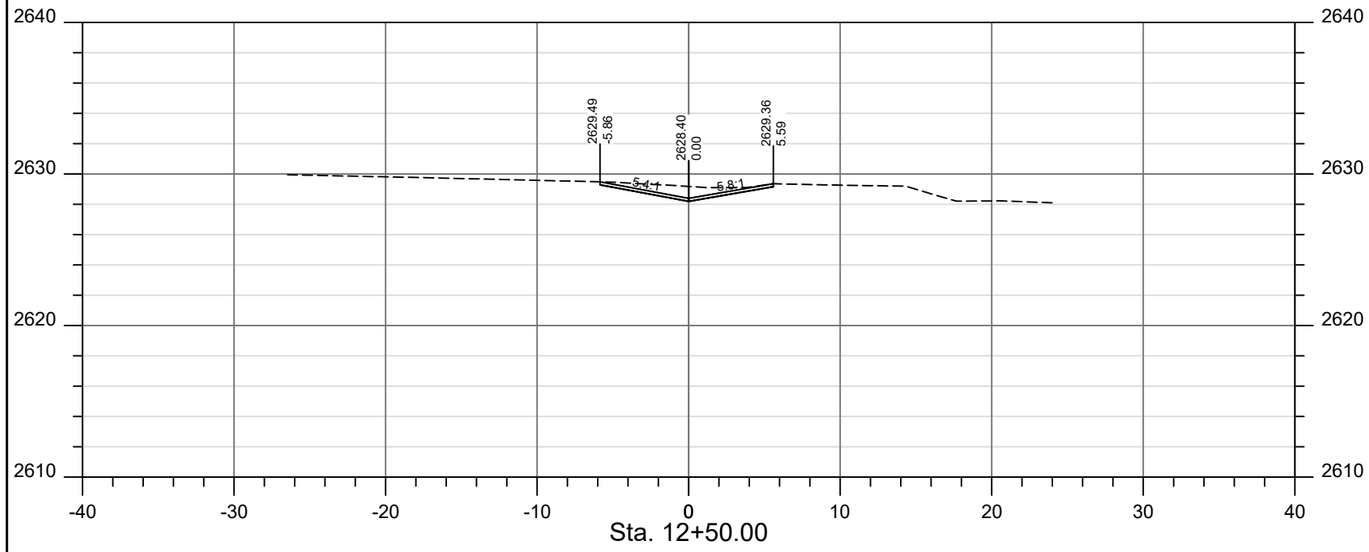
MONTANA Department of Transportation

CROSS SECTIONS

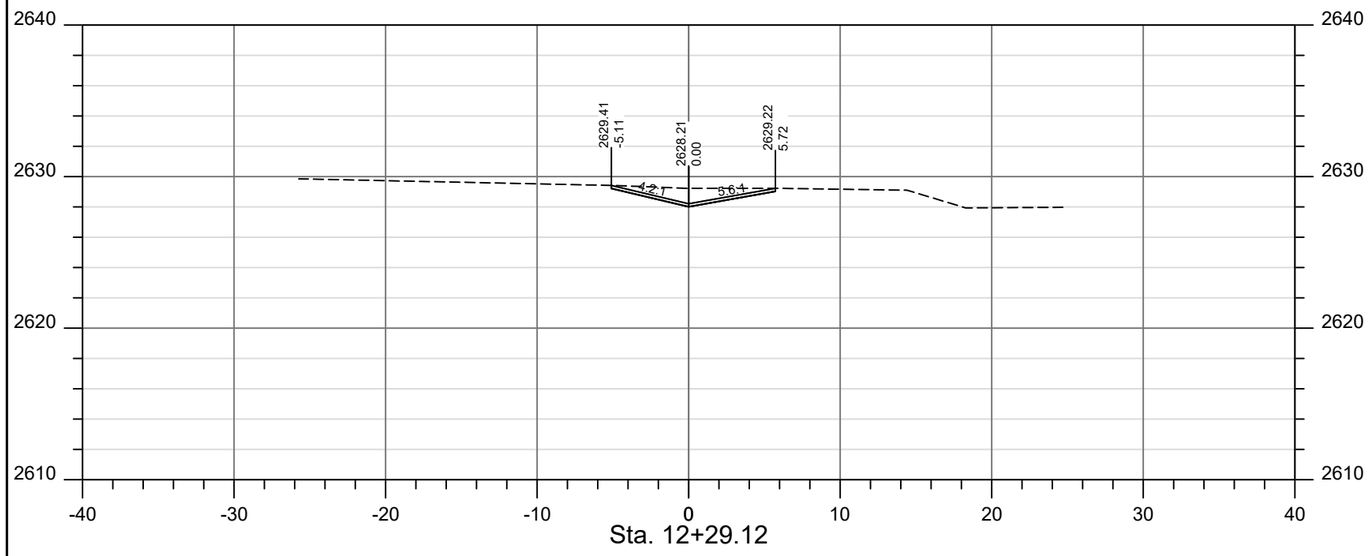
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1023500RDMAP001.DWG

AWARD COPY



Sta. 12+50.00



Sta. 12+29.12

SHEET NO.
29

CROSS SECTIONS

PROJECT NAME: SAINT REGIS-PARADISE
COUNTY: SANDERS & MINERAL COUNTIES
PROJECT ID: STPP STWD(903)
UPN: 10235000

DESIGNED BY	8/10/2023
M. CORNYN	
REVIEWED BY	8/29/2023
J. DOLD	
CHECKED BY	8/25/2023
T. JOHNSON	

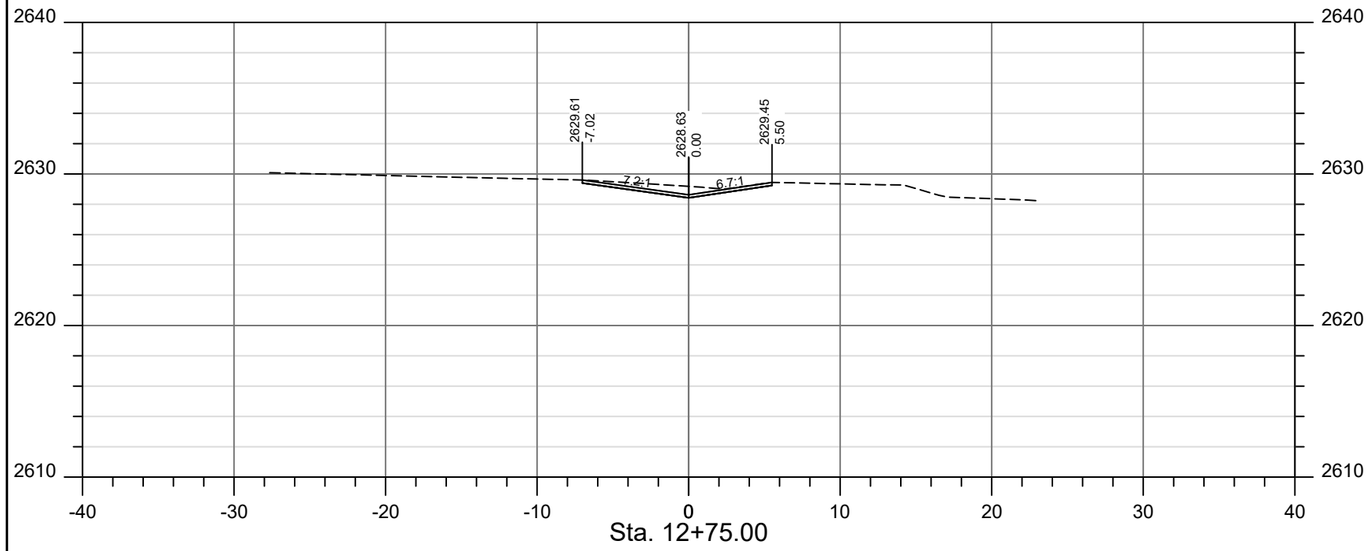
MONTANA
Department of Transportation

CROSS SECTIONS

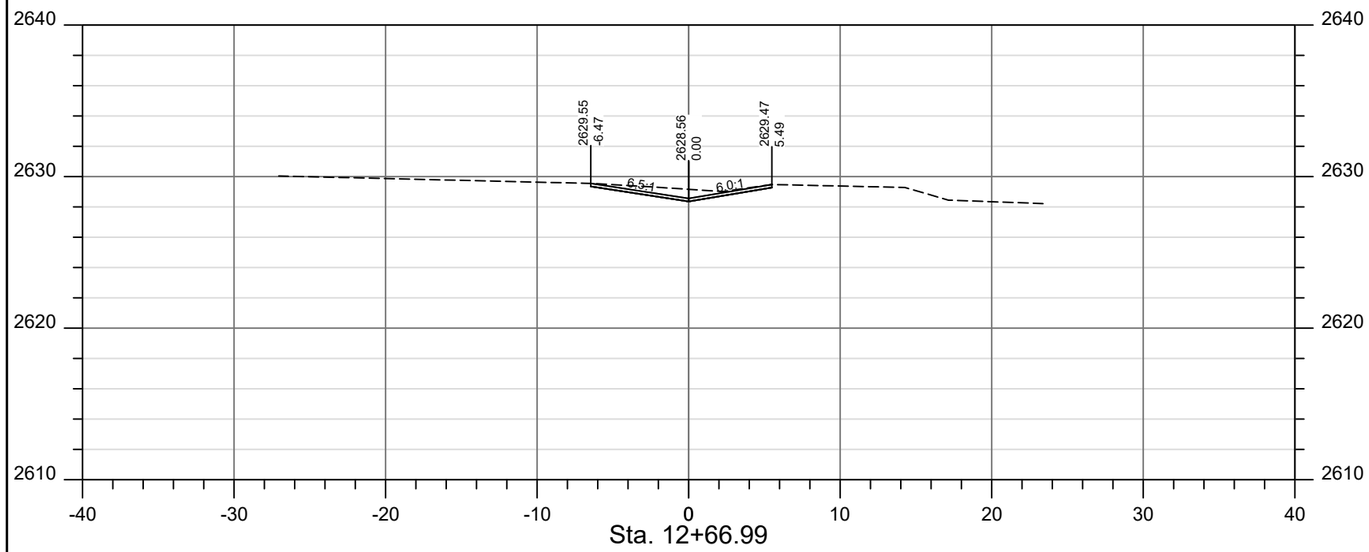
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AWARD COPY



Sta. 12+75.00



Sta. 12+66.99

SHEET NO. 30

CROSS SECTIONS

PROJECT NAME SAINT REGIS-PARADISE

COUNTY SANDERS & MINERAL COUNTIES

PROJECT ID STPP STWD(903)

UPN 10235000

DESIGNED BY	8/10/2023
M. CORNYN	
REVIEWED BY	8/29/2023
J. DOLD	
CHECKED BY	8/25/2023
T. JOHNSON	

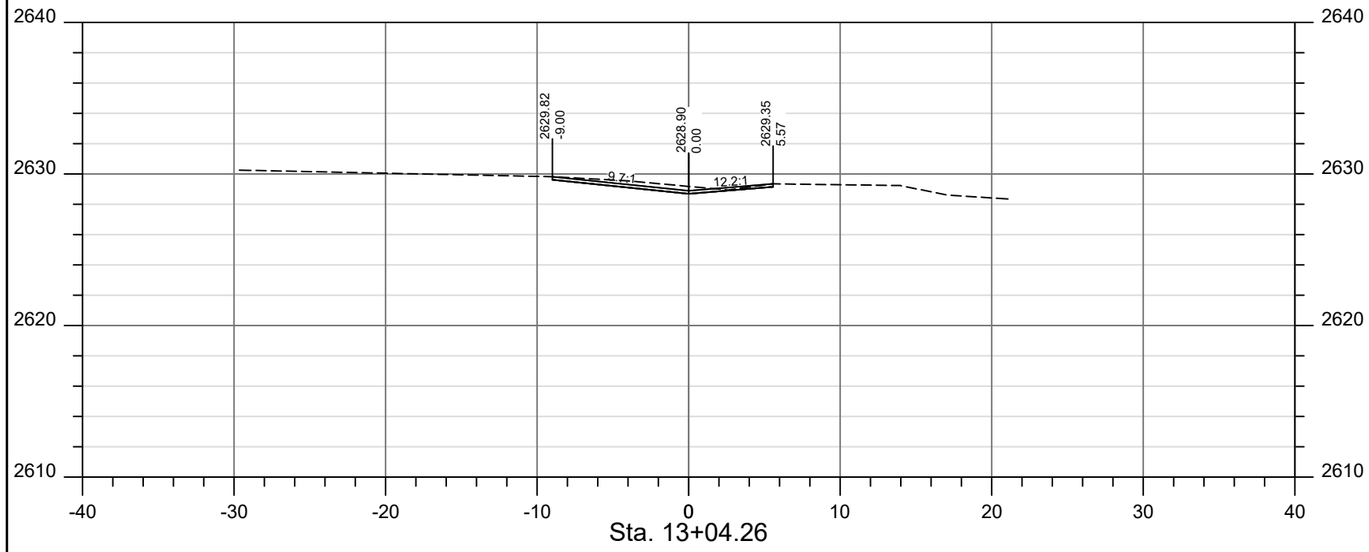
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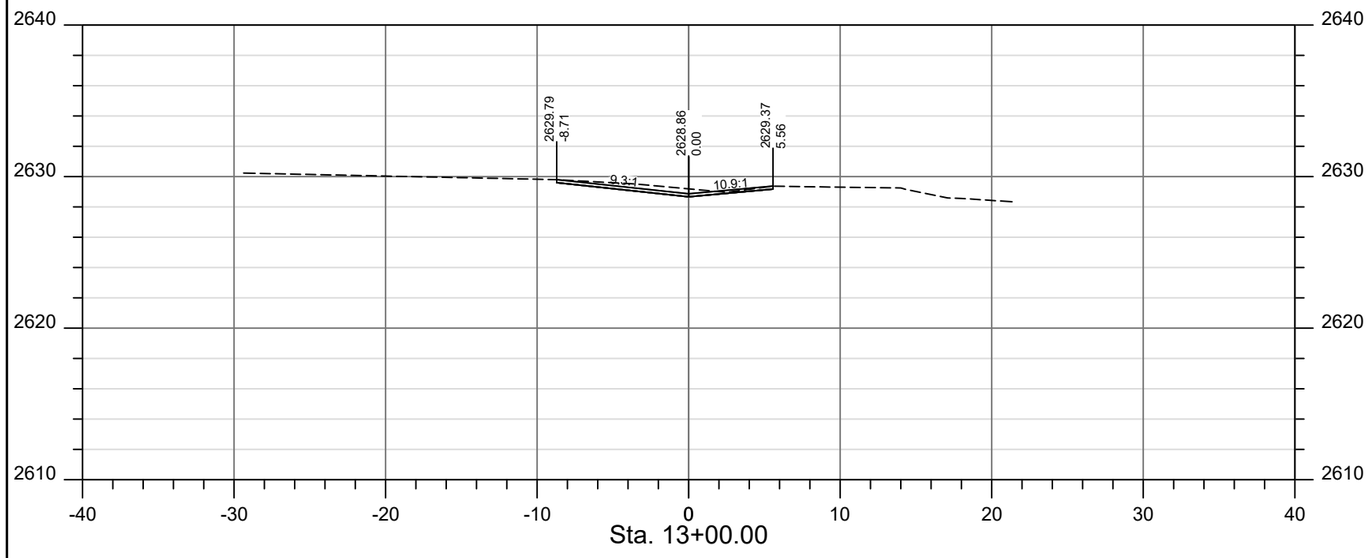
MONTANA Department of Transportation

CROSS SECTIONS

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SHEET NO. 31

CROSS SECTIONS

PROJECT NAME: SAINT REGIS-PARADISE
COUNTY: SANDERS & MINERAL COUNTIES
PROJECT ID: STPP STWD(903)
UPN: 10235000

DESIGNED BY	DATE
M. CORNYN	8/10/2023
REVIEWED BY	DATE
J. DOLD	8/29/2023
CHECKED BY	DATE
T. JOHNSON	8/25/2023

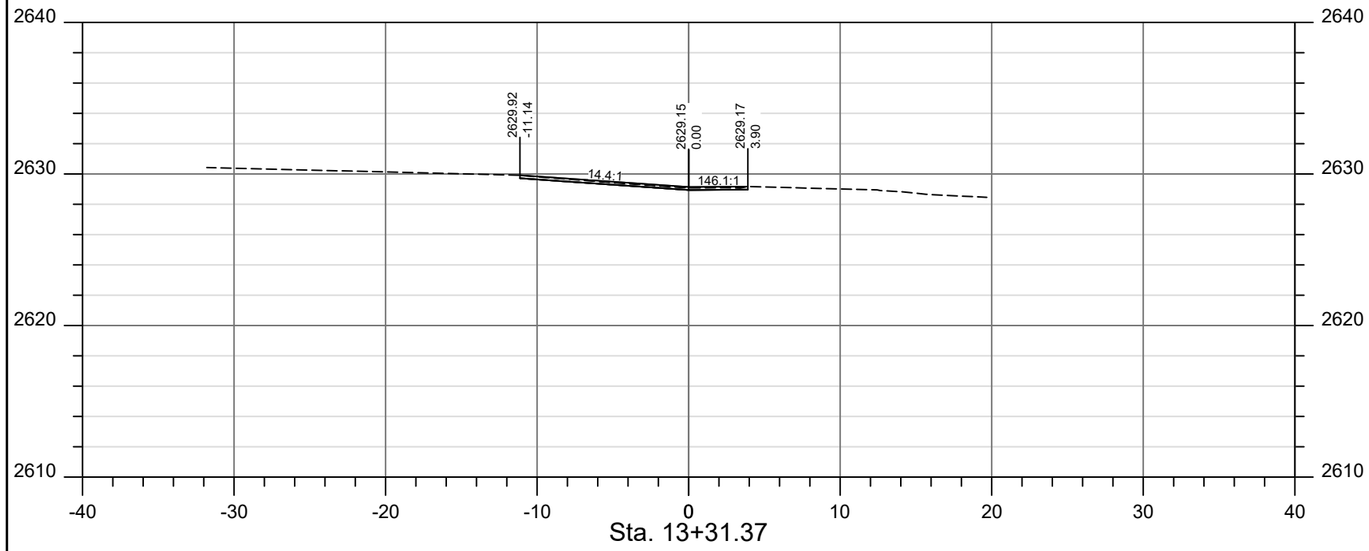
MONTANA Department of Transportation

CROSS SECTIONS

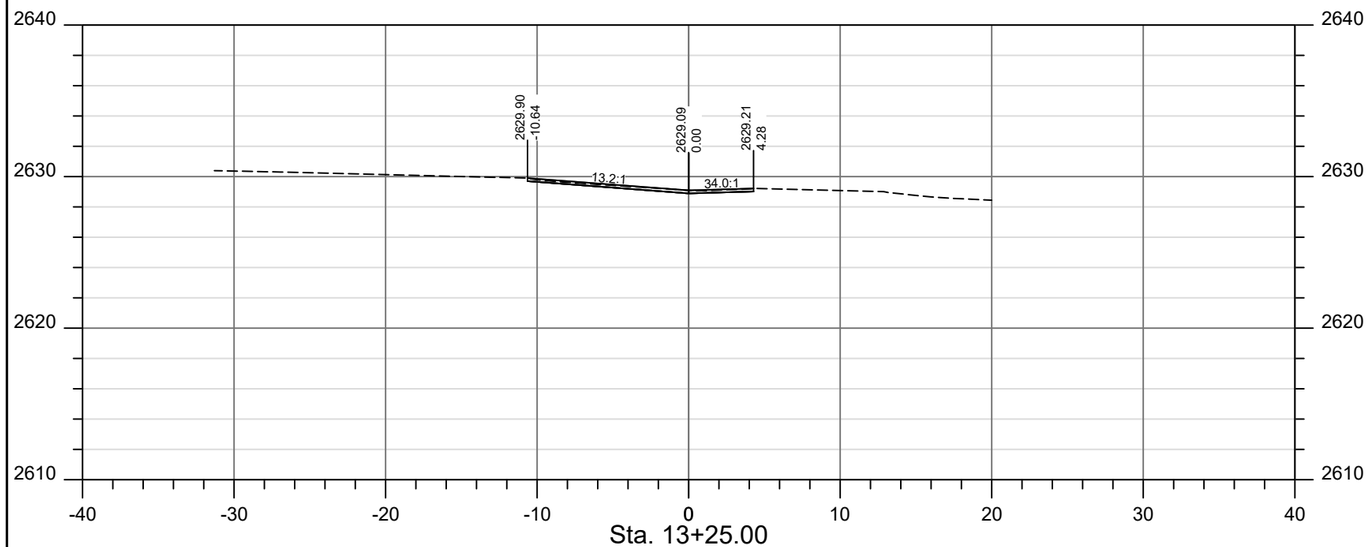
9/5/2023 11:19 AM

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AWARD COPY



Sta. 13+31.37



Sta. 13+25.00

SHEET NO. 32

CROSS SECTIONS

PROJECT NAME: SAINT REGIS-PARADISE

COUNTY: SANDERS & MINERAL COUNTIES

PROJECT ID: STPP STWD(903)

UPN: 10235000

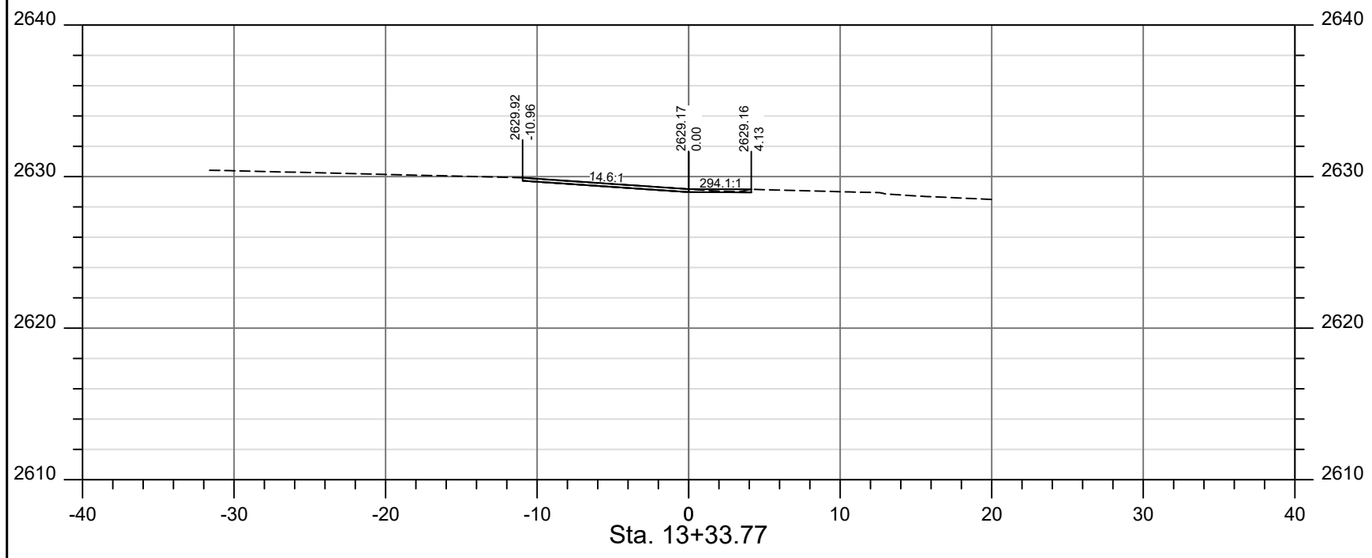
DESIGNED BY	M. CORNYN	8/10/2023
REVIEWED BY	J. DOLD	8/29/2023
CHECKED BY	T. JOHNSON	8/25/2023

1023500RDMAP001.DWG

MONTANA Department of Transportation

CROSS SECTIONS

9/5/2023 11:19 AM



SHEET NO. 33

CROSS SECTIONS

PROJECT NAME: SAINT REGIS-PARADISE
COUNTY: SANDERS & MINERAL COUNTIES
PROJECT ID: STPP STWD(903)
UPN: 10235000

DESIGNED BY	REVIEWED BY	CHECKED BY
M. CORNYN 8/10/2023	J. DOLD 8/29/2023	T. JOHNSON 8/25/2023

1023500RDMAP001.DWG

MONTANA Department of Transportation

CROSS SECTIONS

9/5/2023 11:19 AM