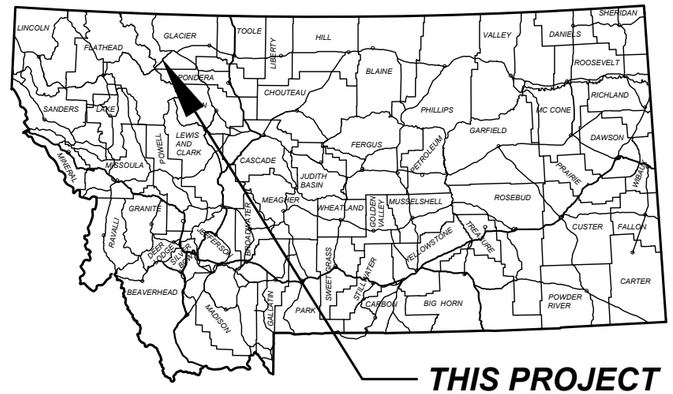
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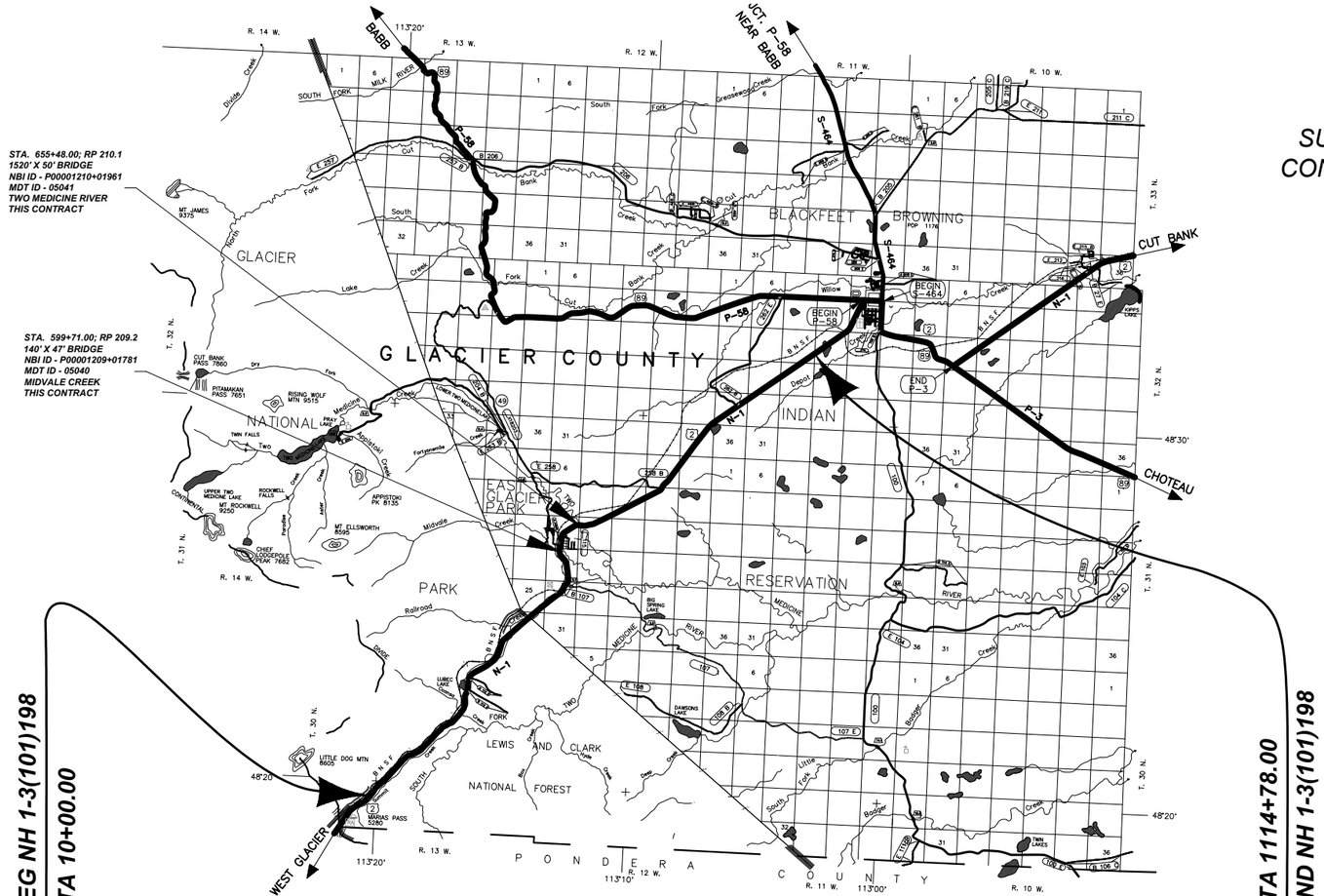
PROJECT DESIGN DATA

PRESENT	2023	A.D.T. =	1,970
LETTING	2024	A.D.T. =	2,010
DESIGN	2044	A.D.T. =	2,930
		D.H.V. =	490
		TRUCKS =	7.9%
		V. =	70 MPH
		18 KIP ESAL'S =	86 Daily
		GROWTH RATE =	1.9% Annual

MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NH 1-3(101)198
SCRUB SEAL, BRIDGE DECK CRACK SEAL
EAST GLACIER - E & W
GLACIER COUNTY

LENGTH 20.9 MILES



SURFACING SOURCES - CONTRACTOR FURNISHED

SHEET NO. 01

TITLE SHEET

PROJECT NAME: EAST GLACIER - E&W
COUNTY: GLACIER COUNTY
PROJECT ID: NH 1-3(101)198
UPN: 10239000

DESIGNED BY	DATE
S. POWELL	04/2024
REVIEWED BY	DATE
R. SNYDER	04/2024
CHECKED BY	DATE
J. SOLIDAY	05/2024

MONTANA Department of Transportation

ROAD PLANS

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TABLE OF CONTENTS

ROAD PLANS	SHEET NO.
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TYPICAL SECTIONS	3-6
SUMMARIES	7
SURFACING	7
ESTIMATED BRIDGE QUANTITIES	7
PAVEMENT MARKINGS	7

NOTES

BASIS OF PLAN QUANTITIES

BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
SCRUB SEAL EMULSION	= 0.42 GAL. PER SQ.YARD
SCRUB SEAL COVER	= 25 LBS. PER SQ.YARD

AS-BUILTS

F-260(6)
F-260(7)
F-BHF-1-3(8)209
RF-FLH 353(15)
HSIP 1-3(55)205

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 PROJECT ROADWAY AND BEYOND THE PROJECT LIMITS. A WETLAND DELINEATION HAS NOT BEN 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 WETLANDS AREAS WITHOUT THE APPROPRIATE PERMITTING IS THE RESPONSIBILITY OF THE CONTRACTOR.

LINEAR DATA

LENGTH OF ROADWAY	GLACIER COUNTY	3 LANE	447.50 ft
LENGTH OF ROADWAY	GLACIER COUNTY	2 LANE	44,102.50 ft
LENGTH OF ROADWAY	GLACIER COUNTY (BLACKFEET INDIAN RES.)	3 LANE	13,835.00 ft
LENGTH OF ROADWAY	GLACIER COUNTY (BLACKFEET INDIAN RES.)	2 LANE	50,433.00 ft
LENGTH OF BRIDGE	GLACIER COUNTY (BLACKFEET INDIAN RES.)		1,660.00 ft
TOTAL LENGTH GLACIER COUNTY		RURAL ROADWAY	44,550.00 ft
TOTAL LENGTH GLACER COUNTY (BLACKFEET INDIAN RES.)		RURAL ROADWAY	65,928.00 ft
TOTAL LENGTH OF NH 1-3(101)198		RURAL ROADWAY	110,478.00 ft

SHEET NO. 02

NOTES, TABLE OF CONTENTS & LINEAR DATA

PROJECT NAME: EAST GLACIER - E&W
COUNTY: GLACIER COUNTY
PROJECT ID: NH 1-3(101)198
UPN: 10239000

DESIGNED BY	S. POWELL	04/2024
REVIEWED BY	R. SNYDER	04/2024
CHECKED BY	J. SOLIDAY	05/2024

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MONTANA Department of Transportation

ROAD PLANS

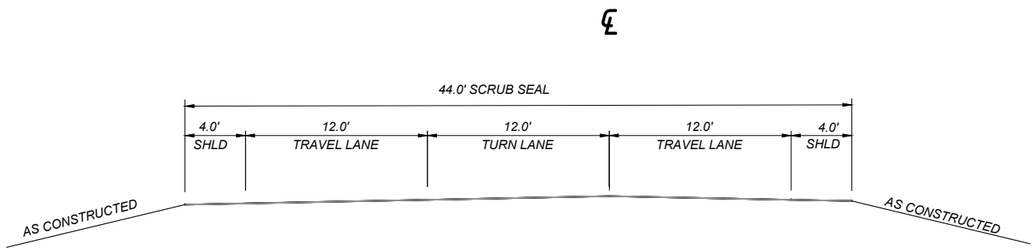
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TYPICAL SECTION NO. 1

MAINLINE

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11+45.00 TO 17+50.00 TRANS. TYP. SECT. NO. 1 TO NO. 2

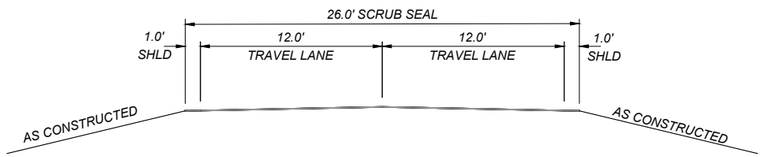


QUANTITIES			
UNIT	AGGREGATE SCRUB SEAL COVER	UNIT	BITUMINOUS MATERIAL SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	489
cubic yards PER STATION		tons PER STATION	0.87
tons PER STATION		gals. PER STATION	
square yards PER STATION	489		

TYPICAL SECTION NO. 2

MAINLINE

17+50.00 TO 349+60.00
349+60.00 TO 350+40.00 TRANS. TYP. SECT. NO. 2 TO NO. 3



QUANTITIES			
UNIT	AGGREGATE SCRUB SEAL COVER	UNIT	BITUMINOUS MATERIAL SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	289
cubic yards PER STATION		tons PER STATION	0.52
tons PER STATION		gals. PER STATION	
square yards PER STATION	289		

SHEET NO.
03

TYPICAL SECTIONS

PROJECT NAME EAST GLACIER - E&W
COUNTY GLACIER COUNTY
PROJECT ID NH 1-3(101)198
UPN 10239000

DESIGNED BY	04/2024
S. POWELL	
REVIEWED BY	04/2024
R. SNYDER	
CHECKED BY	05/2024
J. SOLIDAY	

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MONTANA
Department of Transportation

ROAD PLANS

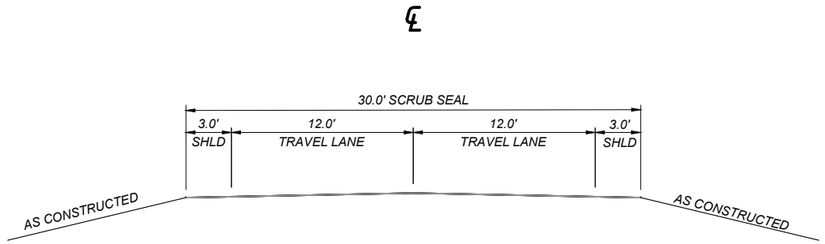
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TYPICAL SECTION NO. 3

MAINLINE

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588+25.00	TO	591+00.00	TRANS. TYP. SECT. NO. 3 TO NO. 4

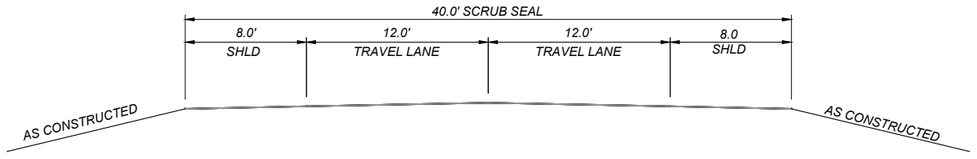


QUANTITIES			
UNIT	AGGREGATE SCRUB SEAL COVER	UNIT	BITUMINOUS MATERIAL SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	333
cubic yards PER STATION		tons PER STATION	0.59
tons PER STATION		gals. PER STATION	
square yards PER STATION	333		

TYPICAL SECTION NO. 4

MAINLINE

591+00.00	TO	599+01.00	BE THEN TYP. NO. 7
617+95.00	TO	647+88.00	BE
663+08.00	BE TO	669+15.00	TRANS. TYP. SECT. NO. 4 TO NO. 5
695+50.00	TO	883+55.00	
883+55.00	TO	886+80.00	TRANS. TYP. SECT. NO. 4 TO NO. 5
906+60.00	TO	979+40.00	
979+40.00	TO	983+00.00	TRANS. TYP. SECT. NO. 4 TO NO. 6
1075+25.00	TO	1114+78.00	



QUANTITIES			
UNIT	AGGREGATE SCRUB SEAL COVER	UNIT	BITUMINOUS MATERIAL SCRUB SEAL EMULSION
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		

SHEET NO. 04

TYPICAL SECTIONS

PROJECT NAME: EAST GLACIER - E&W
COUNTY: GLACIER COUNTY
PROJECT ID: NH 1-3(101)198
UPN: 10239000

DESIGNED BY	S. POWELL	04/2024
REVIEWED BY	R. SNYDER	04/2024
CHECKED BY	J. SOLIDAY	05/2024

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MONTANA Department of Transportation

ROAD PLANS

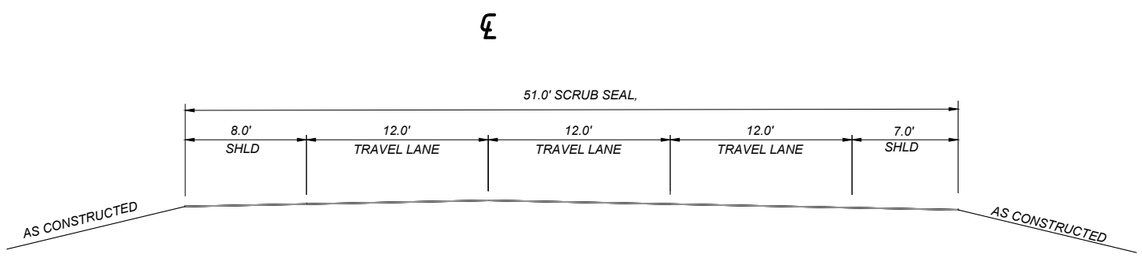
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TYPICAL SECTION NO. 5

MAINLINE

669+15.00	TO	691+00.00	
691+00.00	TO	695+50.00	TRANS. TYP. SECT. NO. 5 TO NO. 4
886+80.00	TO	904+55.00	
904+55.00	TO	906+60.00	TRANS. TYP. SECT. NO. 5 TO NO. 4

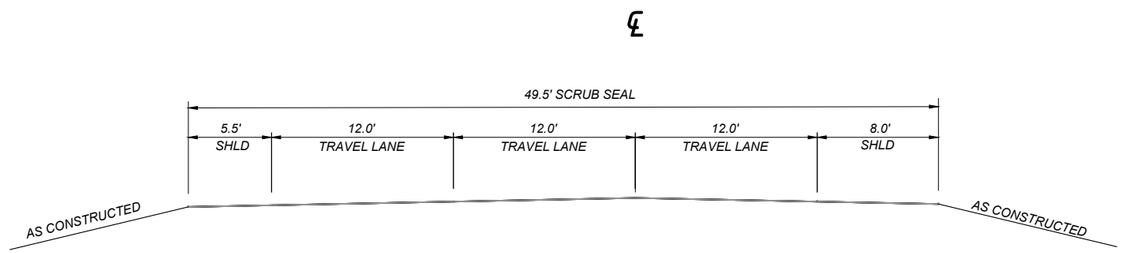


QUANTITIES			
UNIT	AGGREGATE SCRUB SEAL COVER	UNIT	BITUMINOUS MATERIAL SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	567
cubic yards PER STATION		tons PER STATION	1.01
tons PER STATION		gals. PER STATION	
square yards PER STATION	567		

TYPICAL SECTION NO. 6

MAINLINE

983+00.00	TO	1072+20.00	
1072+20.00	TO	1075+25.00	TRANS. TYP. SECT. NO. 6 TO NO. 4



QUANTITIES			
UNIT	AGGREGATE SCRUB SEAL COVER	UNIT	BITUMINOUS MATERIAL SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	550
cubic yards PER STATION		tons PER STATION	0.98
tons PER STATION		gals. PER STATION	
square yards PER STATION	550		

SHEET NO. 05

TYPICAL SECTIONS

PROJECT NAME: EAST GLACIER - E&W
COUNTY: GLACIER COUNTY
PROJECT ID: NH 1-3(101)198
UPN: 10239000

DESIGNED BY	04/2024
S. POWELL	
REVIEWED BY	04/2024
R. SNYDER	
CHECKED BY	05/2024
J. SOLIDAY	

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MONTANA Department of Transportation

ROAD PLANS

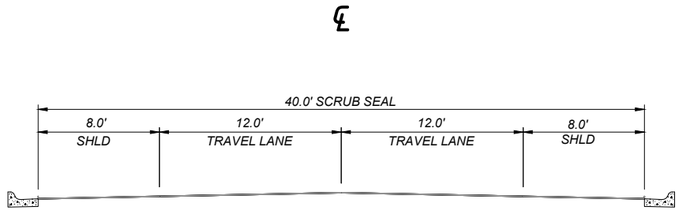
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TYPICAL SECTION NO. 7

MAINLINE

600+41.00 BE TO 614+37.00 THEN TYP. NO. 8

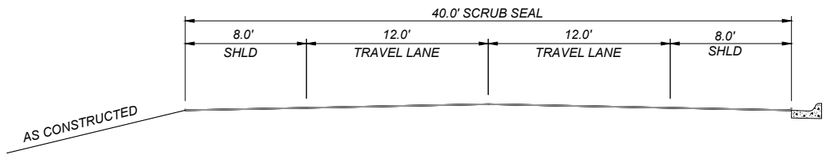


QUANTITIES			
UNIT	AGGREGATE SCRUB SEAL COVER	UNIT	BITUMINOUS MATERIAL SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	444
cubic yards PER STATION		tons PER STATION	0.79
tons PER STATION		gals. PER STATION	
square yards PER STATION	444		

TYPICAL SECTION NO. 8

MAINLINE

614+37.00 TO 617+95.00 THEN TYP. NO. 4



QUANTITIES			
UNIT	AGGREGATE SCRUB SEAL COVER	UNIT	BITUMINOUS MATERIAL SCRUB SEAL EMULSION
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		

SHEET NO.
06

TYPICAL SECTIONS

PROJECT NAME: EAST GLACIER - E&W
COUNTY: GLACIER COUNTY
PROJECT ID: NH 1-3(101)198
UPN: 10239000

DESIGNED BY: S. POWELL 04/2024
REVIEWED BY: R. SNYDER 04/2024
CHECKED BY: J. SOLIDAY 05/2024

MONTANA Department of Transportation

ROAD PLANS

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SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE 1 SCRUB SEAL	BITUMINOUS MATERIAL tons SCRUB SEAL EMULSION	REMARKS
GLACIER COUNTY									
10+00.00	11+45.00	145.00	145.00				709	1.3	TYP. NO. 1
11+45.00	17+50.00	605.00	605.00				2,353	4.2	TRANS. TYP. NO. 1 TO TYP. NO. 2
17+50.00	349+60.00	33,210.00	33,210.00				95,977	172.7	TYP. NO. 2
349+60.00	350+40.00	80.00	80.00				249	0.4	TRANS. TYP. NO. 2 TO TYP. NO. 3
350+40.00	455+50.00	10,510.00	10,510.00				34,998	62.0	TYP. NO. 3
SUBTOTAL		44,550.00	44,550.00				134,287	240.6	
BLACKFEET INDIAN RESERVATION									
455+50.00	588+25.00	13,275.00	13,275.00				44,206	78.3	TYP. NO. 3
588+25.00	591+00.00	275.00	275.00				1,068	1.9	TRANS. TYP. NO. 3 TO TYP. NO. 4
591+00.00	599+01.00 BE	801.00	801.00				3,556	6.3	TYP. NO. 4
599+01.00 BE	600+41.00 BE	140.00			140.00	BRIDGE			
600+41.00 BE	614+37.00	1,396.00	1,396.00				6,198	11.0	TYP. NO. 7
614+37.00	617+95.00	358.00	358.00				1,590	2.8	TYP. NO. 8
617+95.00	647+88.00 BE	2,993.00	2,993.00				13,289	23.6	TYP. NO. 4
647+88.00 BE	663+08.00 BE	1,520.00			1,520.00	BRIDGE			
663+08.00 BE	666+50.00	342.00	342.00				1,518	2.7	TYP. NO. 4
666+50.00	669+15.00	265.00	265.00				1,340	2.4	TRANS. TYP. NO. 4 TO TYP. NO. 5
669+15.00	691+00.00	2,185.00	2,185.00				12,389	22.1	TYP. NO. 5
691+00.00	695+50.00	450.00	450.00				2,275	4.1	TRANS. TYP. NO. 5 TO TYP. NO. 4
695+50.00	883+55.00	18,805.00	18,805.00				83,494	148.6	TYP. NO. 4
883+55.00	886+80.00	325.00	325.00				1,643	2.9	TRANS. TYP. NO. 4 TO TYP. NO. 5
886+80.00	904+55.00	1,775.00	1,775.00				10,064	17.9	TYP. NO. 5
904+55.00	906+60.00	205.00	205.00				1,036	1.8	TRANS. TYP. NO. 5 TO TYP. NO. 4
906+60.00	979+40.00	7,280.00	7,280.00				32,323	57.5	TYP. NO. 4
979+40.00	983+00.00	360.00	360.00				1,789	3.2	TRANS. TYP. NO. 4 TO TYP. NO. 6
983+00.00	1072+20.00	8,920.00	8,920.00				49,060	87.4	TYP. NO. 6
1072+20.00	1075+25.00	305.00	305.00				1,516	2.7	TRANS. TYP. NO. 6 TO TYP. NO. 4
1075+25.00	1114+78.00	3,953.00	3,953.00				17,551	31.2	TYP. NO. 4
SUBTOTAL		65,928.00	64,268.00				285,906	508.6	
TOTAL		**110,478.00**	**108,818.00**	~	**1,660.00**		**420,193**	**749.2**	

BRIDGE QUANTITIES

STATION FROM	STATION TO	sq. yards DECK CRACK SEAL	REMARKS
599+01.00 BE	600+41.00 BE	606.7	MIDVALE CREEK BRIDGE
647+88.00 BE	663+08.00 BE	7,768.9	TWO MEDICINE RIVER BRIDGE
TOTAL		8375.6	

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICA-TION #	FINAL APPLICA-TION	TOTAL
GLACIER COUNTY				
STRIPING - WHITE PAINT	gallon	330		330
STRIPING - YELLOW PAINT	gallon	226		226
STRIPING - WHITE EPOXY	gallon		439	439
STRIPING - YELLOW EPOXY	gallon		302	302
BLACKFEET INDIAN RESERVATION				
STRIPING - WHITE PAINT	gallon	433		433
STRIPING - YELLOW PAINT	gallon	307		307
WORDS & SYMBOLS - WHITE PAINT	gallon	14		14
STRIPING - WHITE EPOXY	gallon		578	578
STRIPING - YELLOW EPOXY	gallon		410	410
WORDS & SYMBOLS - WHITE EPOXY	gallon		18	18
CURB MARKING - YELLOW EPOXY	gallon		10	10

BASED ON 1 APPLICATION.

SHEET NO. 07

SUMMARY FRAMES

PROJECT NAME: EAST GLACIER - E&W
COUNTY: GLACIER COUNTY
PROJECT ID: NH 1-3(101)198
UPN: 10239000

DESIGNED BY: S. POWELL 04/2024
REVIEWED BY: R. SNYDER 04/2024
CHECKED BY: J. SOLIDAY 05/2024

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MONTANA Department of Transportation

ROAD PLANS

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