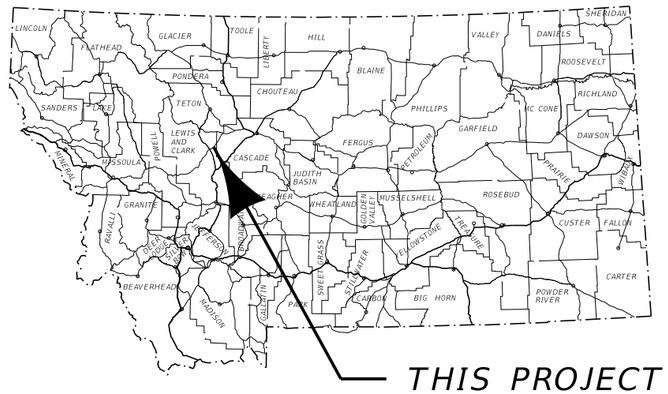
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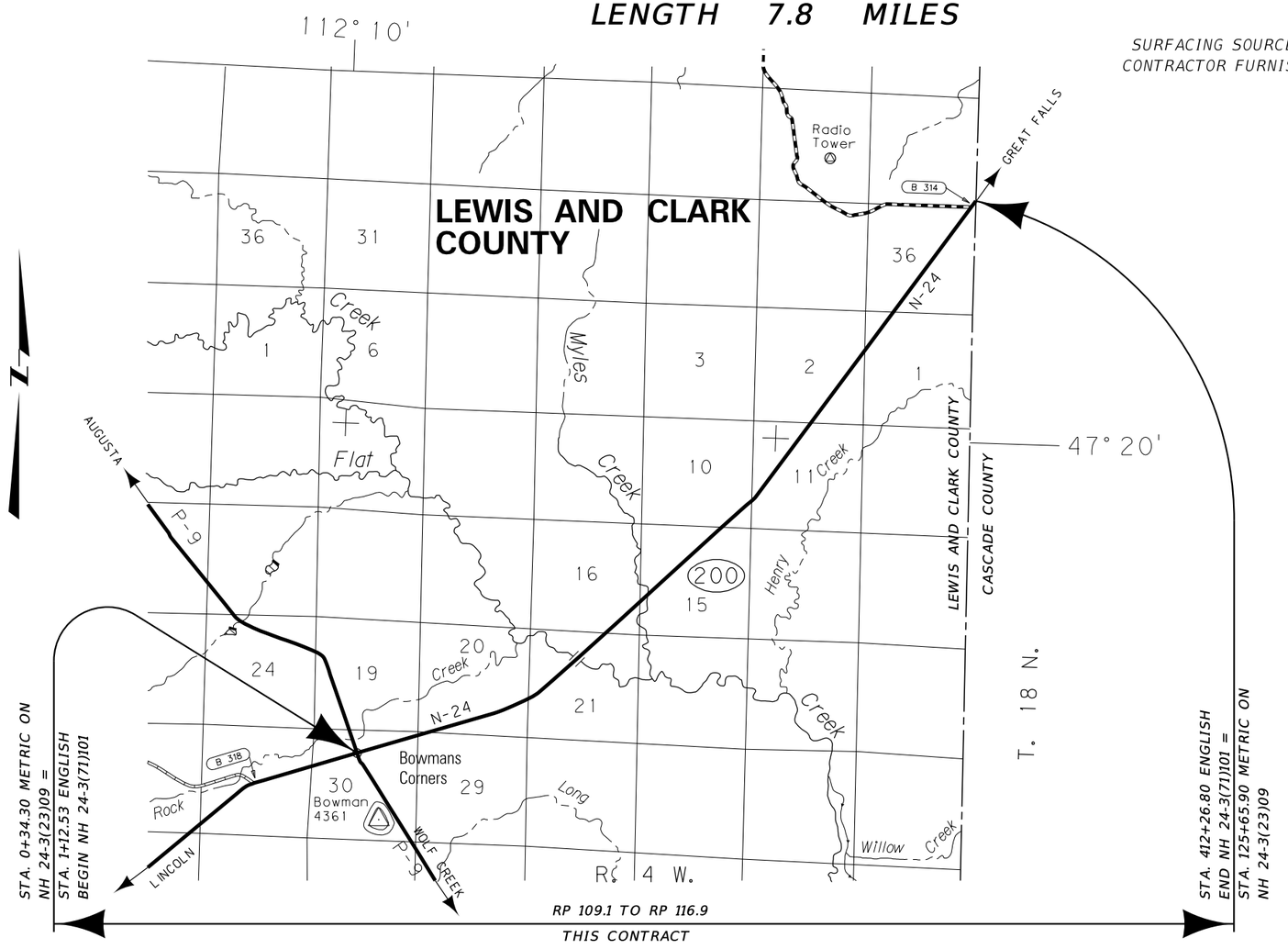
MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NH 24-3(71)109
CRACK SEAL, SEAL & COVER, FOG SEAL
BOWMAN'S CORNER - NORTHEAST
LEWIS AND CLARK COUNTY

PROJECT DESIGN DATA	
PRESENT 2021	A.D.T. = 1,350
LETTING 2023	A.D.T. = 1,360
DESIGN 2043	A.D.T. = 1,660
	D.H.V. = 180
	TRUCKS = 19.0%
	V. = 70 MPH
	18 KIP ESAL'S = 123
	GROWTH RATE = 1.0%

LENGTH 7.8 MILES

SURFACING SOURCES - CONTRACTOR FURNISHED



3	MONTANA Department of Transportation	C:\DGN\9954000rdtl001.dgn	DESIGNED BY	R. Kunda	8/4/2022	ROAD PLANS
2		5/25/2023	REVIEWED BY	R. Snyder	8/4/2022	
		11:01:36 AM CPS - U1716	CHECKED BY	J. Sabol	12/1/2022	UPN 9954000

AWARD COPY

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DETAILS	6
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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
CRACK SEALANT - EXISTING CRACKS	= 0.125 LBS. PER LNFT
CRACK SEALANT - NEW CRACKS	= 0.50 LBS PER LNFT
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD
EMULSIFIED ASPHALT - FOG SEAL (S&C)	= 0.075 GAL. PER SQ.YARD (UNDILUTED)

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 IS THE RESPONSIBILITY OF THE CONTRACTOR.

AS BUILTS

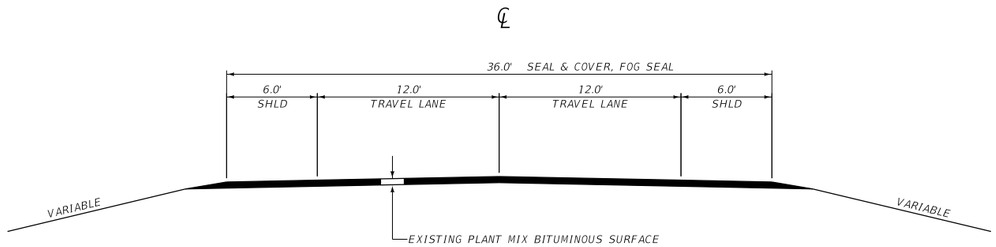
F 24 3 7
NH 24-3(23)109
NH 24-3(38)100
HSIP-G STWD(450)

AWARD COPY

TYPICAL SECTION NO. 1

MAINLINE

1+12.53	TO	66+27.30	TYPICAL NO. 1
66+27.30	TO	67+16.14	TRANS. TYP. NO. 1 TO TYP. NO. 2
106+00.00	TO	177+00.00	TYPICAL NO. 1
177+00.00	TO	179+00.00	TRANS. TYP. NO. 1 TO TYP. NO 3A
261+38.45	TO	412+26.80	TYPICAL NO. 1

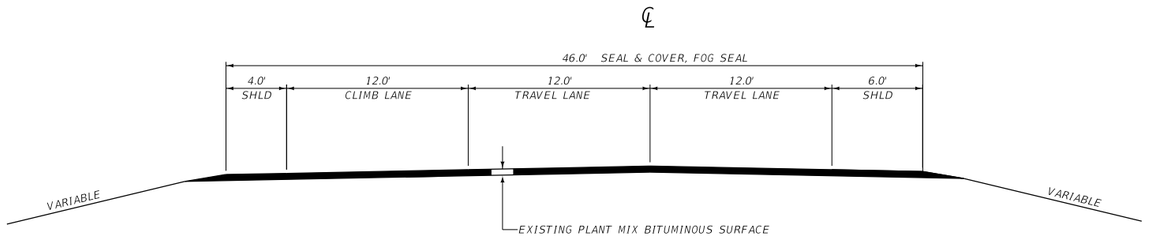


QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SEAL	FOG SEAL	
AREA square feet			square yards PER STATION	400	400	
cubic yards PER STATION			tons PER STATION	0.71		
tons PER STATION			gals. PER STATION		30	
square yards PER STATION	400					

TYPICAL SECTION NO. 2

MAINLINE

67+16.14	TO	92+34.42	TYPICAL NO. 2
92+34.42	TO	94+41.90	TRANS. TYP. NO. 2 TO TYP. NO.3
239+90.58	TO	242+76.97	TYPICAL. NO. 2
242+76.97	TO	244+73.88	TRANS, TYP. NO. 2 TO TYP. NO. 3



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SEAL	FOG SEAL	
AREA square feet			square yards PER STATION	511	511	
cubic yards PER STATION			tons PER STATION	0.91		
tons PER STATION			gals. PER STATION		38	
square yards PER STATION	511					

3	MONTANA Department of Transportation	C:\DGN\9954000rdtyp001.dgn	DESIGNED BY	R. Kunda	8/4/2022	ROAD PLANS	BOWMAN'S CORNER - NORTHEAST / NH 24-3(71)109
2		5/25/2023	REVIEWED BY	R. Snyder	8/4/2022		
		11:01:49 AM CPS - U1716	CHECKED BY	J. Sabol	12/1/2022	LEWIS AND CLARK COUNTY	UPN 9954000 / 3

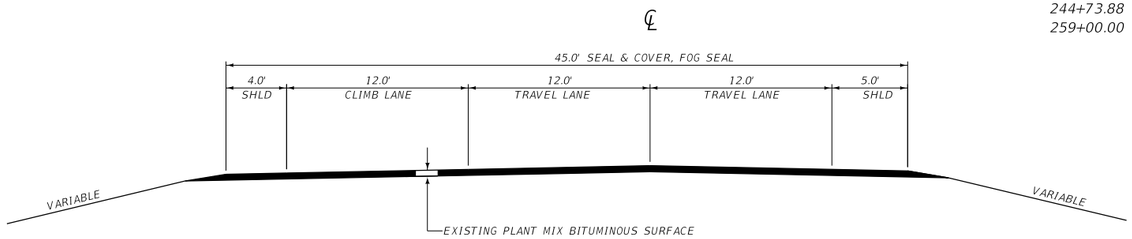
AWARD COPY

TYPICAL SECTION NO. 3 & NO. 3A

MAINLINE

TYPICAL SECTION NO. 3 SHOWN, TYP.
SECT. NO. 3A REVERSE OF TYP. NO. 3

94+41.90	TO	104+00.00	TYPICAL NO. 3
104+00.00	TO	106+00.00	TRANS. TYP. NO. 3 TO TYP. NO 1
179+00.00	TO	228+23.29	TYPICAL NO. 3A
228+23.29	TO	230+13.81	TRANS. TYP. NO. 3A TO TYP. NO. 4
244+73.88	TO	259+00.00	TYPICAL NO. 3
259+00.00	TO	261+38.45	TRANS. TYP. NO. 3 TO TYP. NO. 1

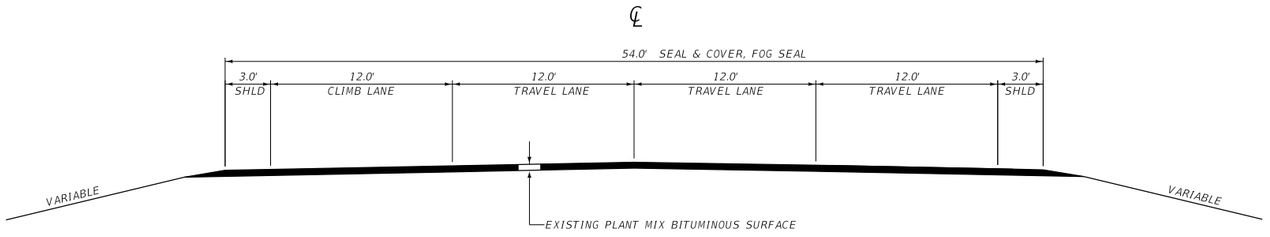


QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SEAL	FOG SEAL	
AREA square feet			square yards PER STATION	500	500	
cubic yards PER STATION			tons PER STATION	0.89		
tons PER STATION			gals. PER STATION		38	
square yards PER STATION	500					

TYPICAL SECTION NO. 4

MAINLINE

230+13.81	TO	238+00.00	TYPICAL NO. 4
238+00.00	TO	239+90.58	TRANS. TYP. NO. 4 TO TYP. NO. 2



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SEAL	FOG SEAL	
AREA square feet			square yards PER STATION	600	600	
cubic yards PER STATION			tons PER STATION	1.07		
tons PER STATION			gals. PER STATION		45	
square yards PER STATION	600					

3	MONTANA Department of Transportation	C:\DGN\9954000rdtyp001.dgn	DESIGNED BY R. Kunda	8/4/2022	ROAD PLANS	BOWMAN'S CORNER - NORTHEAST / NH 24-3(71)109
		5/25/2023	REVIEWED BY R. Snyder	8/4/2022		
1		11:01:54 AM CPS - U1716	CHECKED BY J. Sabol	12/1/2022	LEWIS AND CLARK COUNTY	UPN 9954000 / 4

AWARD COPY

SUMMARY

SURFACING

STATION		linear feet				FOR	AGGREGATE	BITUMINOUS MATERIAL		REMARKS
		GROSS	NET	+	-		sq. yards	tons	gallons	
FROM	TO						COVER TYPE 1	SEAL CHFRS-2P	EMULSIFIED ASPHALT FOG SEAL	
1+12.53	66+27.30	6,514.77	6,514.77				26,059	46.3	1,954	TYPICAL SECTION NO. 1
66+27.30	67+16.14	88.84	88.84				405	0.7	30	TRANS. TYP. NO. 1 TO TYP. NO. 2
67+16.14	92+34.42	2,518.28	2,518.28				12,868	22.9	957	TYPICAL SECTION NO. 2
92+34.42	94+41.90	207.48	207.48				1,049	1.9	79	TRANS. TYP. NO. 2 TO TYP. NO. 3
94+41.90	104+00.00	958.10	958.10				4,791	8.5	364	TYPICAL SECTION NO. 3
104+00.00	106+00.00	200.00	200.00				900	1.6	68	TRANS. TYP. NO. 3 TO TYP. NO. 1
106+00.00	177+00.00	7,100.00	7,100.00				28,400	50.4	2,130	TYPICAL SECTION NO. 1
177+00.00	179+00.00	200.00	200.00				900	1.6	68	TRANS. TYP. NO. 1 TO TYP. NO. 3A
179+00.00	228+23.29	4,923.29	4,923.29				24,616	43.8	1,871	TYPICAL SECTION NO. 3A
228+23.29	230+13.81	190.52	190.52				1,048	1.9	80	TRANS. TYP. NO. 3A TO TYP. NO. 4
230+13.81	238+00.00	786.19	786.19				4,717	8.4	354	TYPICAL SECTION NO. 4
238+00.00	239+90.58	190.58	190.58				1,059	1.9	80	TRANS. TYP. NO. 4 TO TYP. NO. 2
239+90.58	242+76.97	286.39	286.39				1,463	2.6	109	TYPICAL SECTION NO. 2
242+76.97	244+73.88	196.91	196.91				995	1.8	75	TRANS. TYP. NO. 2 TO TYP. NO. 3
244+73.88	259+00.00	1,426.12	1,426.12				7,131	12.7	542	TYPICAL SECTION NO. 3
259+00.00	261+38.45	238.45	238.45				1,073	1.9	81	TRANS. TYP. NO. 3 TO TYP. NO. 1
261+38.45	412+26.80	15,088.35	15,088.35				60,353	107.1	4,527	TYPICAL SECTION NO. 1
TOTAL		41,114.27	41,114.27	~	~		177,827	316.0	13,369	

CRACK SEALING *

STATION		TRANSVERSE & LONGITUDINAL CRACK SEALING				REMARKS
		CRACK SEALING				
		NEW	EXISTING	NEW	EXISTING	
FROM	TO	pounds	pounds	linear feet	linear feet	
1+12.53	412+26.80	11,408	4,278	22,816	34,224	
SUBTOTAL		11,408	4,278	22,816 #	34,224 #	
TOTAL		15,686		~	~	

* SEE DETAIL SHEET
\# FOR INFORMATION ONLY

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING -WHITE PAINT	gallon	605		605
STRIPING -YELLOW PAINT	gallon	394		394
WORDS & SYMBOLS -WHITE PAINT	gallon	9		9
STRIPING -WHITE EPOXY	gallon		807	807
STRIPING -YELLOW EPOXY	gallon		525	525
WORDS & SYMBOLS -WHITE EPOXY	gallon		11	11

#BASED ON 1 APPLICATIONS.

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DETAIL

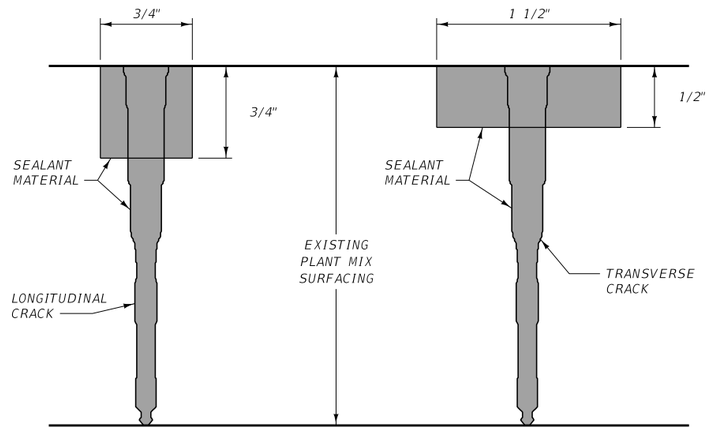
CRACKS 1/8" TO 1" WIDE

LONGITUDINAL CRACK

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

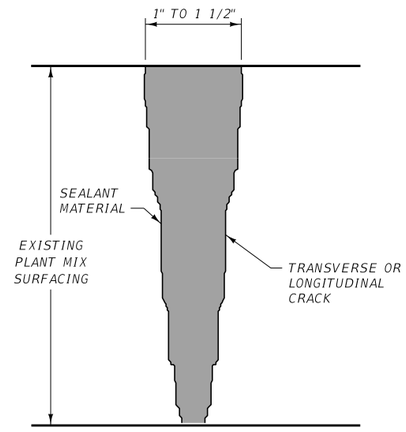
TRANSVERSE CRACK

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



CRACKS 1" TO 1 1/2" WIDE

LEAVE EXISTING CRACK SEAL IN PLACE



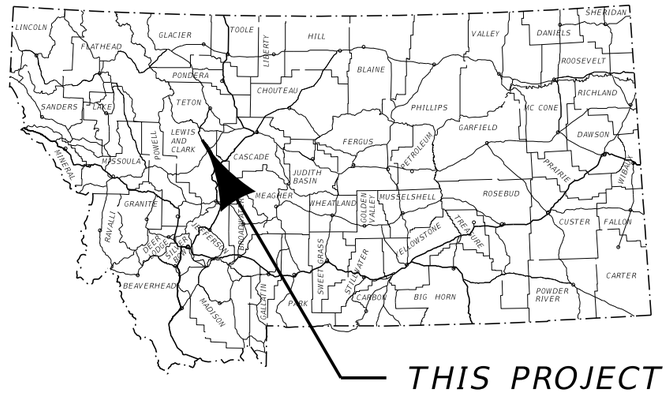
DETAIL

CRACK SEALING DETAIL

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9954000rddet001.dgn	DESIGNED BY	R. Kunda	8/4/2022	ROAD PLANS	BOWMAN'S CORNER - NORTHEAST	NH 24-3(71)109
2		5/25/2023	REVIEWED BY	R. Snyder	8/4/2022			
		11:02:15 AM CPS - U1716	CHECKED BY	J. Sabol	12/1/2022	LEWIS AND CLARK COUNTY	UPN 9954000	6

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MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT STPP 9-1(25)21
SCRUB SEAL, FOG SEAL, BRIDGE DECK CRACK SEAL, PAVEMENT MARKINGS
AUGUSTA-SOUTHEAST
LEWIS AND CLARK COUNTY

LENGTH 18.8 MILES

PROJECT DESIGN DATA

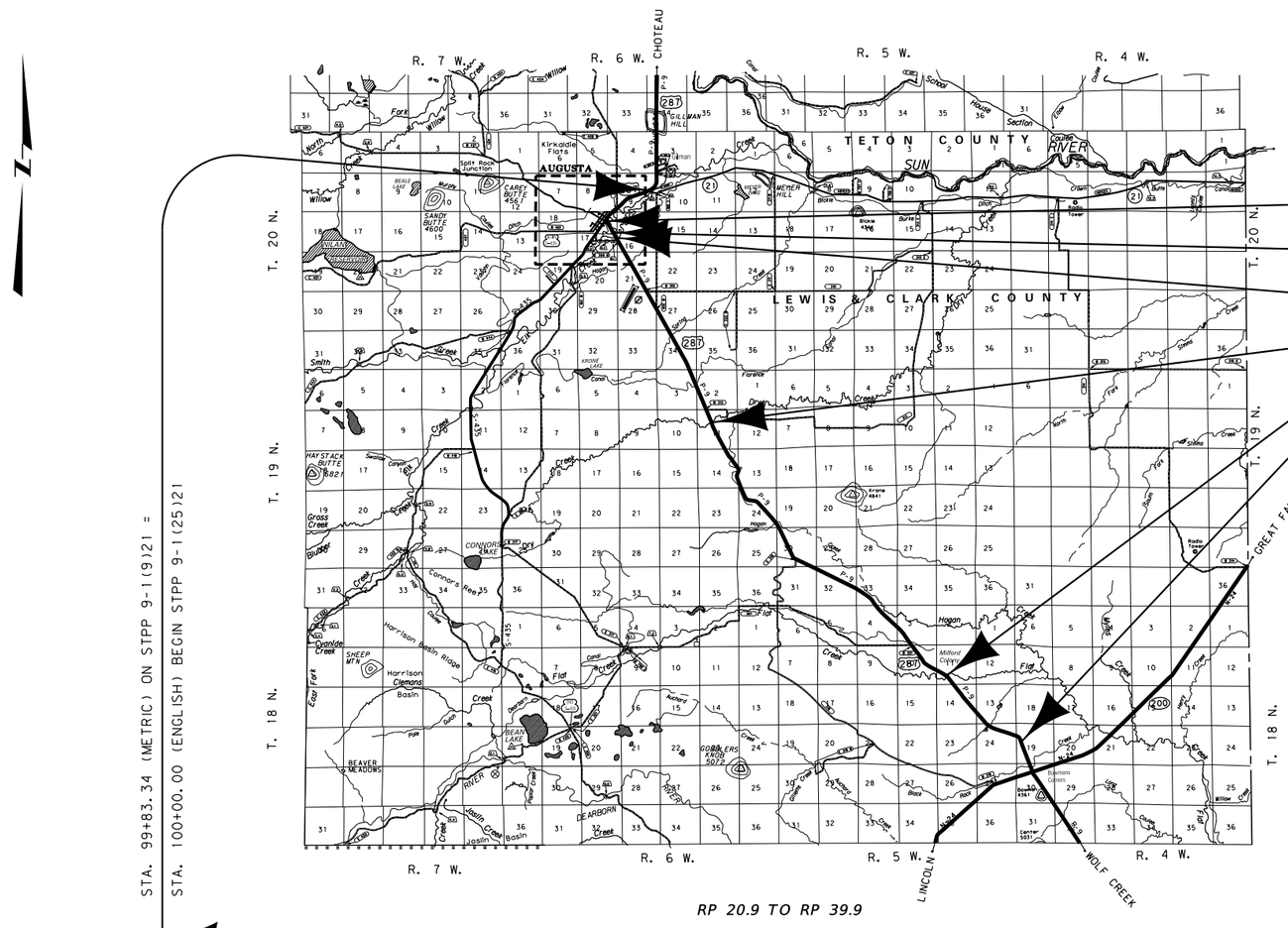
U.S. HWY. 287
RP 021+0.400 to RP 038+0.613

PRESENT	2023	A.D.T. = 600
LETTING	2024	A.D.T. = 610
DESIGN	2044	A.D.T. = 850
		D.H.V. = 130
		TRUCKS = 7.9%
		V. = 60 mph
		18 KIP ESAL'S = 23
		GROWTH RATE = 1.7%

U.S. HWY. 287
RP 038+0.613 to RP 0039+0.470

PRESENT	2023	A.D.T. = 1,200
LETTING	2024	A.D.T. = 1,220
DESIGN	2044	A.D.T. = 1,710
		D.H.V. = 260
		TRUCKS = 4.0%
		V. = 25mph - 55 mph
		18 KIP ESAL'S = 24
		GROWTH RATE = 1.7%

SURFACING SOURCES -
CONTRACTOR FURNISHED


R. 7 W.
R. 6 W.
R. 5 W.
R. 4 W.
T. 20 N.
T. 19 N.
T. 18 N.
CHOTEAU
AUGUSTA
Kirkaldie Flats
Split Rock Junction
CAREY BUTTE 4561
SANDY BUTTE 4600
GILLMAN HILL
TETON COUNTY
SUN RIVER
LEWIS & CLARK COUNTY
HAYSTACK BUTTE 6821
CONNORS LAKE
Connors Reservoir
SHEEP MTN
Harrison Basin Ridge
Harrison Clemons Basin
BEAN LAKE
BEAVER MEADOWS
DEARBORN
Joslin Creek Basin
GOBBLERS KNOB 5072
Smith
Grass Creek
Dry Creek
Deep Creek
Dearborn River
Sun River
Elk Creek
Flat Creek
Wolf Creek
Hogan
Milford Colony
Bellamont Colony
Square Butte
Krone 4841
Carter 5931
Rocky Point
Black Rock
Willow Creek
Silting
Section
Fork
Flat
Creek
Coulee
Canal
Reservoir
Basin
Ridge
Butte
Mtn
Hill
Lake
Tower
Ranch
Colony
Junction
Rock
Point
Basin
Meadows
Mtn
Knob

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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
SCRUB SEAL EMULSION	= 0.42 GAL. PER SQ.YARD
COVER (SCRUB SEAL)	= 25 LBS. PER SQ.YARD
EMULSIFIED ASPHALT - FOG SEAL (S & C)	= 0.075 GAL. PER SQ.YARD (UNDILUTED)

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 IS THE RESPONSIBILITY OF THE CONTRACTOR.

AS-BUILTS

FAP 238 D
NRH 176 E
STPP 9-1(9)21
STPP 9-1(12)32
STPP 9-1(16)39

UTILITIES

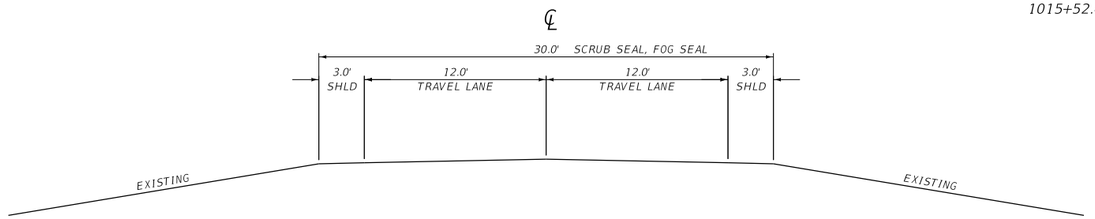
CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING. ALL CLEARANCES OR DEPTHS PROVIDED FOR UTILITIES ARE FROM EXISTING GROUND LINE.

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TYPICAL SECTION NO. 1

MAINLINE

100+00.00	TO 237+39.67	
237+39.67	TO 238+84.02	TRANSITION TYP. NO. 1 TO TYP. NO. 2
243+37.17	TO 710+52.56	
710+52.56	TO 711+96.92	TRANSITION TYP. NO. 1 TO TYP. NO. 2
716+41.21	TO 989+31.14	
989+31.14	TO 990+75.49	TRANSITION TYP. NO. 1 TO TYP. NO. 2
1000+96.29	TO 1015+52.43	
1015+52.43	TO 1016+50.85	TRANSITION TYP. NO. 1 TO TYP. NO. 3

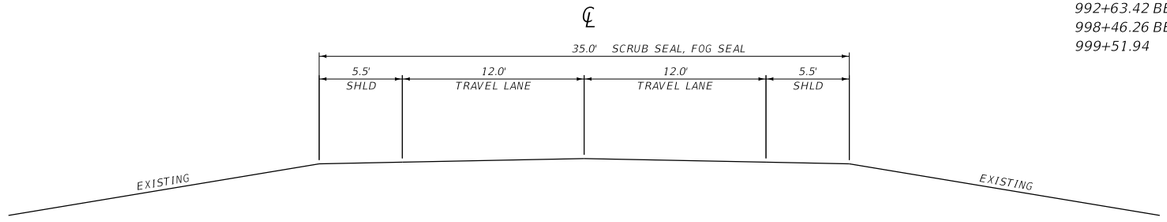


QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet			square yards PER STATION	333	333	
cubic yards PER STATION			tons PER STATION	0.59		
tons PER STATION			gals. PER STATION		25	
square yards PER STATION	333					

TYPICAL SECTION NO. 2

MAINLINE

238+84.02	TO 240+02.36 BE	
240+74.48 BE	TO 240+92.72	
240+92.72	TO 243+37.17	TRANSITION TYP. NO. 2 TO TYP. NO. 1
711+96.92	TO 713+14.11 BE	
713+79.66 BE	TO 714+96.85	
714+96.85	TO 716+41.21	TRANSITION TYP. NO. 2 TO TYP. NO. 1
990+75.49	TO 991+85.73 BE	
992+63.42 BE	TO 997+68.57 BE	
998+46.26 BE	TO 999+51.94	
999+51.94	TO 1000+96.29	TRANSITION TYP. NO. 2 TO TYP. NO. 1



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet			square yards PER STATION	389	389	
cubic yards PER STATION			tons PER STATION	0.69		
tons PER STATION			gals. PER STATION		29	
square yards PER STATION	389					

3	MONTANA Department of Transportation	C:\DGN\10244000rdtyp001.dgn	DESIGNED BY	R. KUNDA	5/19/2023	ROAD PLANS
2		7/13/2023	REVIEWED BY	R. SNYDER	5/19/2023	
		11:30:33 AM CPS - U1716	CHECKED BY	TROY JOHNSON	7/12/2023	LEWIS AND CLARK COUNTY

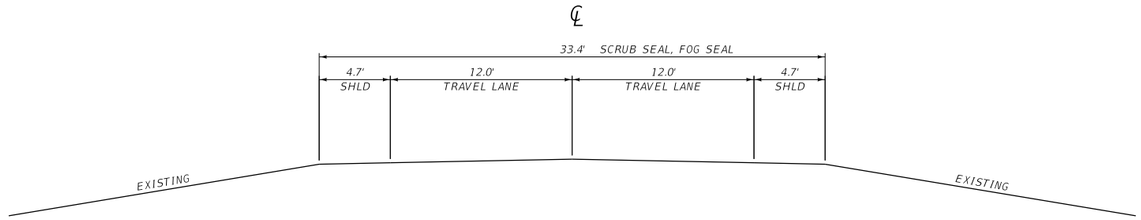
AUGUSTA-SOUTHEAST		STPP 9-1(25)21
	UPN 10244000	03

AWARD COPY

TYPICAL SECTION NO. 3

MAINLINE

1016+50.85 ONLY – THEN TO TYP. NO. 4

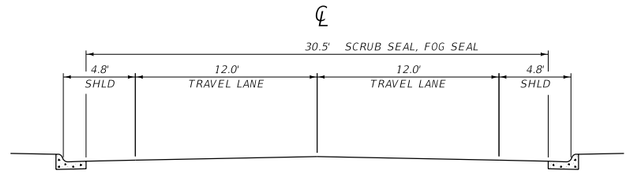


QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet			square yards PER STATION	371	371	
cubic yards PER STATION			tons PER STATION	0.66		
tons PER STATION			gals. PER STATION		28	
square yards PER STATION	371					

TYPICAL SECTION NO. 4

MAINLINE

1016+50.85 TO 1017+86.09
1017+86.09 TO
1018+86.09 BK. = 20+95.10 AH. STATION EQUATION
21+80.10 AREA MEASURED IN CAD – THEN TO TYP. NO. 5



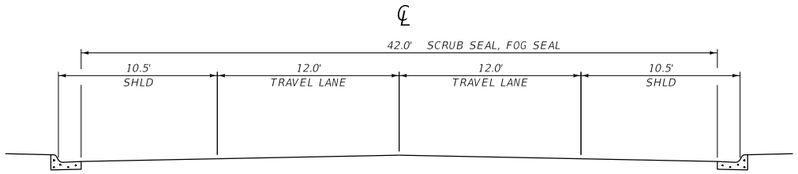
QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet			square yards PER STATION	339	339	
cubic yards PER STATION			tons PER STATION	0.61		
tons PER STATION			gals. PER STATION		25	
square yards PER STATION	339					

AWARD COPY

TYPICAL SECTION NO. 5

MAINLINE

21+80.10 TO 30+03.16
30+03.16 TO 30+42.10 TRANSITION TYP. NO. 5 TO TYP. NO. 6

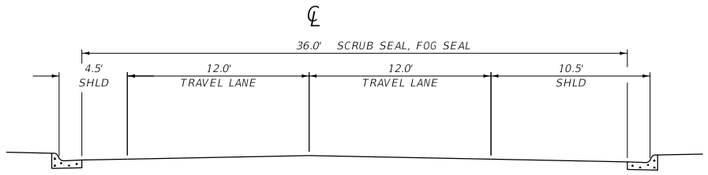


QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet			square yards PER STATION	467	467	
cubic yards PER STATION			tons PER STATION	0.83		
tons PER STATION			gals. PER STATION		35	
square yards PER STATION	467					

TYPICAL SECTION NO. 6

MAINLINE

30+42.10 ONLY
30+42.10 TO 30+50.52 TRANSITION TYP. NO. 6 TO TYP. NO. 7



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet			square yards PER STATION	400	400	
cubic yards PER STATION			tons PER STATION	0.71		
tons PER STATION			gals. PER STATION		30	
square yards PER STATION	400					

2	MONTANA Department of Transportation	C:\DGN\10244000rdtyp001.dgn	DESIGNED BY	R. KUNDA	5/19/2023	ROAD PLANS
1		7/13/2023	REVIEWED BY	R. SNYDER	5/19/2023	
		11:30:42 AM CPS - U1716	CHECKED BY	TROY JOHNSON	7/12/2023	LEWIS AND CLARK COUNTY

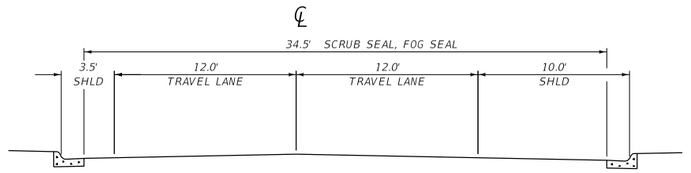
AUGUSTA-SOUTHEAST		STPP 9-1(25)21
	UPN 10244000	05

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TYPICAL SECTION NO. 7

MAINLINE

30+50.52 TO 31+01.52
31+01.52 TO 31+51.52 TRANSITION TYP. NO. 7 TO TYP. NO. 8

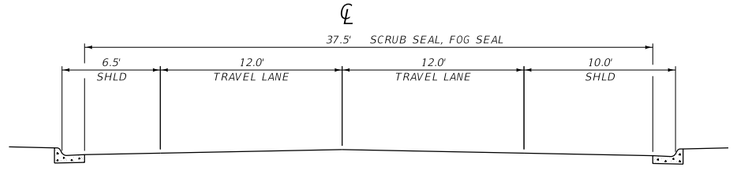


QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet			square yards PER STATION	383	383	
cubic yards PER STATION			tons PER STATION	0.68		
tons PER STATION			gals. PER STATION		29	
square yards PER STATION	383					

TYPICAL SECTION NO. 8

MAINLINE

31+51.52 ONLY
31+51.52 TO 33+44.45 TRANSITION TYP. NO. 8 TO TYP. NO. 9



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet			square yards PER STATION	417	417	
cubic yards PER STATION			tons PER STATION	0.74		
tons PER STATION			gals. PER STATION		31	
square yards PER STATION	417					

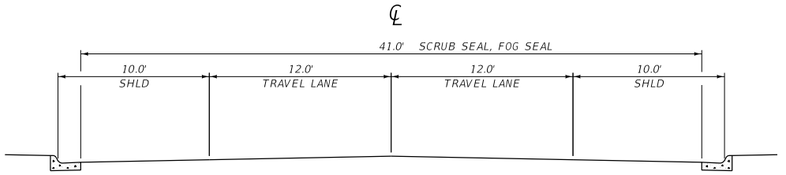
3	MONTANA Department of Transportation	C:\DGN\10244000rdtyp002.dgn	DESIGNED BY	R. KUNDA	5/19/2023	ROAD PLANS	AUGUSTA-SOUTHEAST / UPN 10244000	STPP 9-1(25)21 / 06
2		7/13/2023	REVIEWED BY	R. SNYDER	5/19/2023			
		11:30:51 AM CPS - U1716	CHECKED BY	TROY JOHNSON	7/12/2023	LEWIS AND CLARK COUNTY		

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TYPICAL SECTION NO. 9

MAINLINE

33+44.45			ONLY
33+44.45	TO	34+70.00	TRANSITION TYP. NO. 9 TO TYP. NO. 10



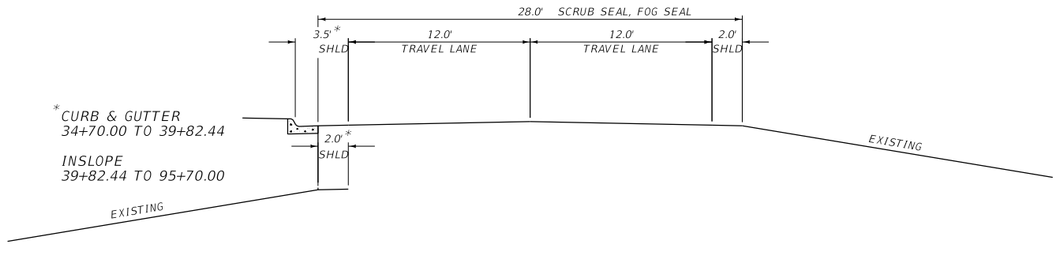
QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet			square yards PER STATION	456	456	
cubic yards PER STATION			tons PER STATION	0.81		
tons PER STATION			gals. PER STATION		34	
square yards PER STATION	456					

TYPICAL SECTION NO. 10

MAINLINE

℄

34+70.00	TO	94+50.00	
94+50.00	TO	95+70.00	TRANSITION TYP. NO. 10 TO TYP. NO. 11



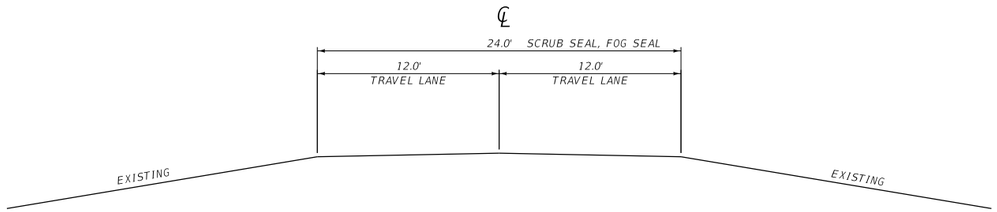
QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet			square yards PER STATION	311	311	
cubic yards PER STATION			tons PER STATION	0.56		
tons PER STATION			gals. PER STATION		23	
square yards PER STATION	311					

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TYPICAL SECTION NO. 11

MAINLINE

95+70.00 ONLY – END OF PROJECT



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet cubic yards PER STATION tons PER STATION square yards PER STATION	 267		square yards PER STATION tons PER STATION gals. PER STATION	267 0.48	267 20	

2 1	MONTANA Department of Transportation	C:\DGN\10244000rdtyp002.dgn 7/13/2023 11:31:00 AM CPS – U1716	DESIGNED BY REVIEWED BY CHECKED BY	R. KUNDA R. SNYDER TROY JOHNSON	5/19/2023 5/19/2023 7/12/2023	ROAD PLANS LEWIS AND CLARK COUNTY	AUGUSTA-SOUTHEAST UPN 10244000	STPP 9-1(25)21 08

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SUMMARY

SURFACING

REFERENCE POST		linear feet				FOR	AGGREGATE	BITUMINOUS MATERIAL		REMARKS
		GROSS	NET	+	-		sq. yards	tons	gallons	
FROM	TO						COVER TYPE 1 SCRUB SEAL	SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL	
100+00.00	237+39.67	13,739.67	13,739.67				45,753	81.1	3,435	TYP. NO. 1
237+39.67	238+84.02	144.35	144.35				521	0.9	39	TRANSITION TYP. NO. 1 TO TYP. NO. 2
238+84.02										
240+01.82 BE	240+75.02 BE				73.20	BRIDGE				
	240+92.72	208.70	135.50				527	0.9	39	TYP. NO. 2
240+92.72	243+37.17	244.45	244.45				882	1.6	66	TRANSITION TYP. NO. 2 TO TYP. NO. 1
243+37.17	710+52.56	46,715.39	46,715.39				155,562	275.6	11,679	TYP. NO. 1
710+52.56	711+96.92	144.36	144.36				521	0.9	39	TRANSITION TYP. NO. 1 TO TYP. NO. 2
711+96.92										
713+12.44 BE	713+81.34 BE				68.90	BRIDGE				
	714+96.85	299.93	231.03				899	1.6	67	TYP. NO. 2
714+96.85	716+41.21	144.36	144.36				521	0.9	39	TRANSITION TYP. NO. 2 TO TYP. NO. 1
716+41.21	989+31.14	27,289.93	27,289.93				90,875	161.0	6,822	TYP. NO. 1
989+31.14	990+75.49	144.35	144.35				521	0.9	39	TRANSITION TYP. NO. 1 TO TYP. NO. 2
990+75.49										
991+84.08 BE	992+65.08 BE				81.00	BRIDGE				
997+66.92 BE	998+47.92 BE				81.00	BRIDGE				
	999+51.94	876.45	714.45				2,779	4.9	207	TYP. NO. 2
999+51.94	1000+96.29	144.35	144.35				521	0.9	39	TRANSITION TYP. NO. 2 TO TYP. NO. 1
1000+96.29	1015+52.43	1,456.14	1,456.14				4,849	8.6	364	TYP. NO. 1
1015+52.43	1016+50.85	98.42	98.42				346	0.6	26	TRANSITION TYP. NO. 1 TO TYP. NO. 3
1016+50.85	1017+86.09	135.24	135.24				458	0.8	34	TYP. NO. 4
1017+86.09										
1018+86.09 BK.	20+95.10 AH.			99,790.99		STATION EQUATION				
	21+80.10	-99,605.99	185.00				1,239	2.2	93	AREA MEASURED IN CAD
21+80.10	30+03.16	823.06	823.06				3,844	6.8	288	TYP. NO. 5
30+03.16	30+42.10	38.94	38.94				169	0.3	13	TRANSITION TYP. NO. 5 TO TYP. NO. 6
30+42.10	30+50.52	8.42	8.42				33	0.1	2	TRANSITION TYP. NO. 6 TO TYP. NO. 7
30+50.52	31+01.52	51.00	51.00				195	0.3	15	TYP. NO. 7
31+01.52	31+51.52	50.00	50.00				200	0.4	15	TRANSITION TYP. NO. 7 TO TYP. NO. 8
31+51.52	33+44.45	192.93	192.93				842	1.5	63	TRANSITION TYP. NO. 8 TO TYP. NO. 9
33+44.45	34+70.00	125.55	125.55				481	0.9	36	TRANSITION TYP. NO. 9 TO TYP. NO. 10
34+70.00	94+50.00	5,980.00	5,980.00				18,598	33.5	1,375	TYP. NO. 10
94+50.00	95+70.00	120.00	120.00				347	0.6	26	TRANSITION TYP. NO. 10 TO TYP. NO. 11
TOTAL		-430.00	99,056.89	99,790.99	304.10		331,483	587.8	24,860	

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING -WHITE PAINT	gallon	664		664
STRIPING -YELLOW PAINT	gallon	222		222
WORDS & SYMBOLS -WHITE PAINT	gallon	3		3
STRIPING -WHITE EPOXY	gallon		885	885
STRIPING -YELLOW EPOXY	gallon		295	295
WORDS & SYMBOLS -WHITE EPOXY	gallon		4	4
CURB MARKING -YELLOW EPOXY	gallon		18	18

#BASED ON 1 APPLICATIONS.

BRIDGE ITEMS

STATION				square yards BRIDGE DECK CRACK SEAL	REMARKS
FROM		TO			
240+02.36	BE	240+74.48	BE	287.9	FLAT CREEK BRIDGE
713+14.11	BE	713+79.66	BE	271.0	DRY CREEK BRIDGE
991+85.73	BE	992+63.42	BE	318.6	ELK CREEK BRIDGE
997+68.57	BE	998+46.26	BE	318.6	ELK CREEK OVERFLOW
TOTAL				1,196.1	

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DETAIL



DETAIL

S-435 / MANIX ST.
INTERSECTION DETAIL

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\10244000rddet001.dgn	DESIGNED BY	R. KUNDA	5/19/2023	ROAD PLANS	AUGUSTA-SOUTHEAST	STPP 9-1(25)21
2		7/13/2023	REVIEWED BY	R. SNYDER	5/19/2023			
		11:31:22 AM CPS - U1716	CHECKED BY	TROY JOHNSON	7/12/2023	LEWIS AND CLARK COUNTY	UPN 10244000	10