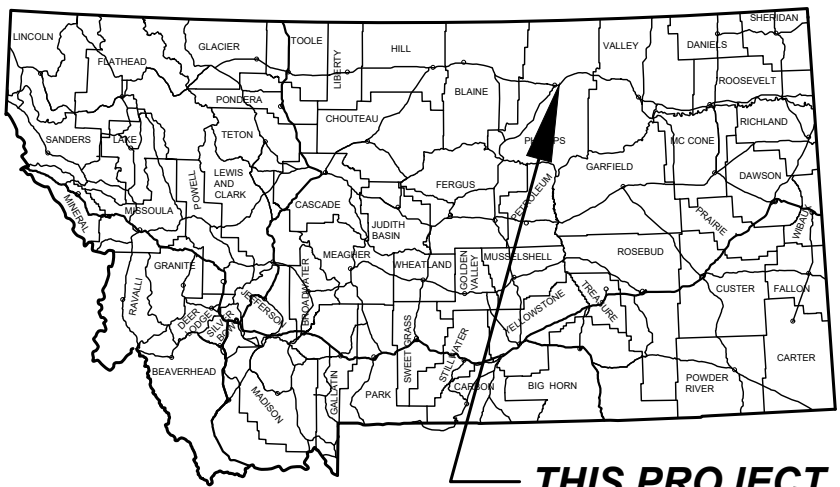


MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NH 1-8(75)471
SCRUB SEAL AND RUMBLE STRIPS
MALTA - EAST
PHILLIPS COUNTY

LENGTH 17.3 MILES



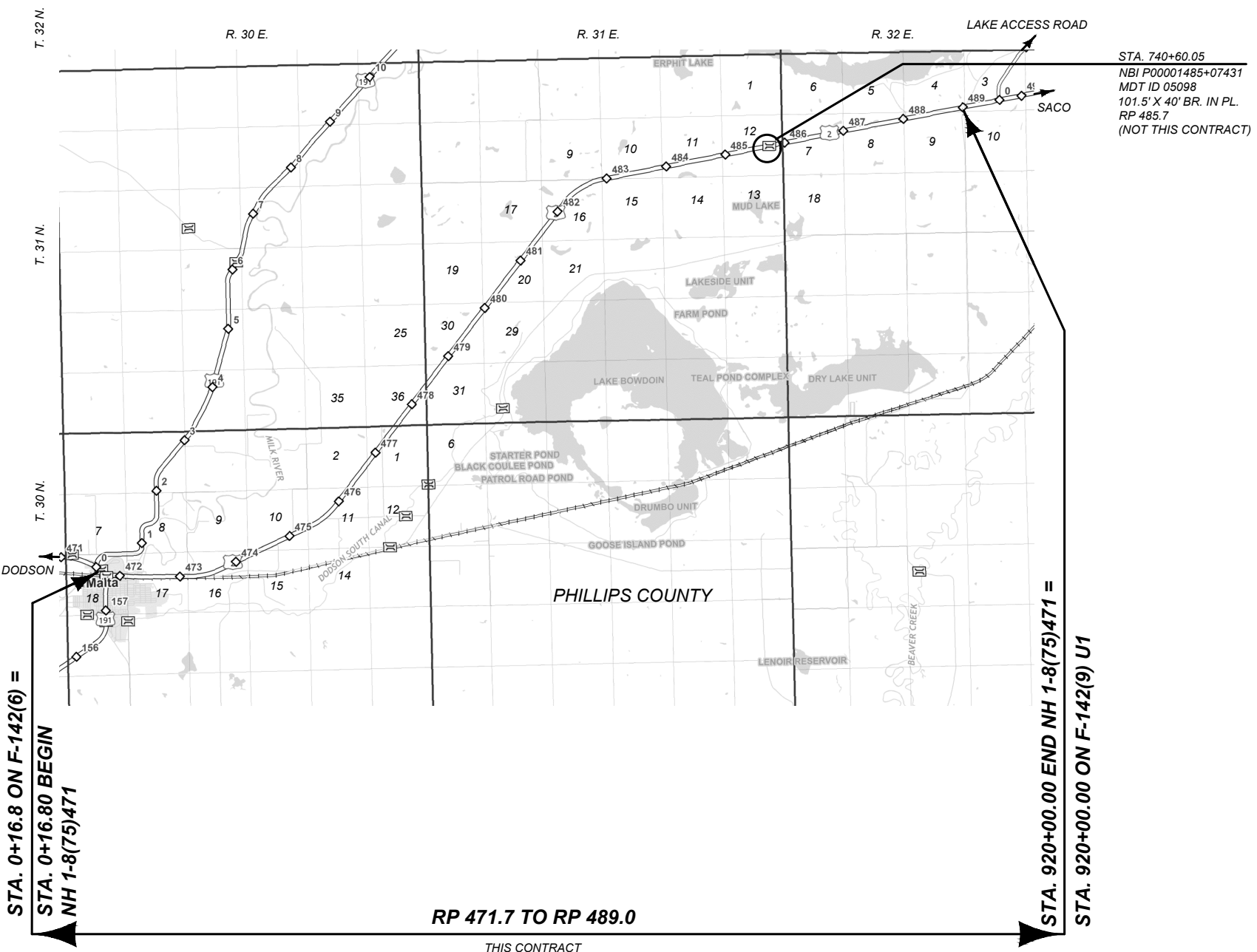
PROJECT DESIGN DATA

PRESENT	2024	A.D.T. = 1,490
LETTING	2026	A.D.T. = 1,520
DESIGN	2046	A.D.T. = 1,850
		D.H.V. = 190
		TRUCKS = 12.5%
		V. = 60 MPH
		18 KIP ESAL'S = 101 DAILY
		ANNUAL GROWTH RATE = 1.0%

ASSOCIATED PROJECT
AGREEMENT NUMBERS

R/W	
I. C.	
P. E.	NH 1-8(74)471

SURFACING SOURCES -
CONTRACTOR FURNISHED



SHEET NO.

1

TITLE

PROJECT NAME
MALTA - EAST

COUNTY
PHILLIPS

PROJECT ID
NH 1-8(75)471

UPN
10531000

DESIGNED BY
A. BORSCHEL

REVIEWED BY
J. FLEMING

CHECKED BY
J. CEREC

10531000RDTTL001.DWG



ROAD PLANS

3/16/2026 4:59 PM

TABLE OF CONTENTS

NOTES

ROAD PLANS

SHEET NO.

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US 191 (CENTRAL AVE) INTERSECTION	7

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)	
BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
EMULSIFIED ASPHALT - FOG SEAL (RUMBLE STRIPS)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)
SCRUB SEAL EMULSION	= 0.42 GAL. PER SQ.YARD
COVER (SCRUB SEAL)	= 25 LBS. PER SQ.YARD

AS-BUILTS

FOR HORIZONTAL ALIGNMENTS AND STATIONING, REFER TO THE FOLLOWING "AS-BUILT" PROJECTS:	
F 142(4)	
F 142(6)	
F 142(9) U1	
F 142(11)	

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.

MANHOLES

DO NOT DISTURB EXISTING MANHOLES IN MALTA.


MONITORING WELLS

CONTRACTOR TO LOCATE EXISTING MONITORING WELLS IN MALTA. DO NOT DISTURB EXISTING MONITORING WELLS.

TABLE OF CONTENTS
AND
NOTES

PROJECT NAME	MALTA - EAST
COUNTY	PHILLIPS
PROJECT ID	NH 1-8(75)471
UPN	10531000

DESIGNED BY	02/2025
A. BORSCHEL	
REVIEWED BY	02/2025
J. FLEMING	
CHECKED BY	01/2026
J. CERECK	
10531000RDTTL001.DWG	



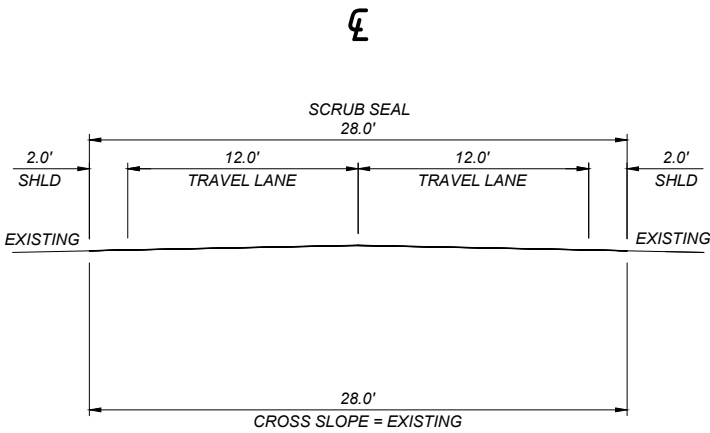
MONTANA
Department of Transportation

ROAD PLANS

3/16/2026 4:59 PM

0+16.80 BE TO 1+09.12 THEN TO TYP. NO. 2

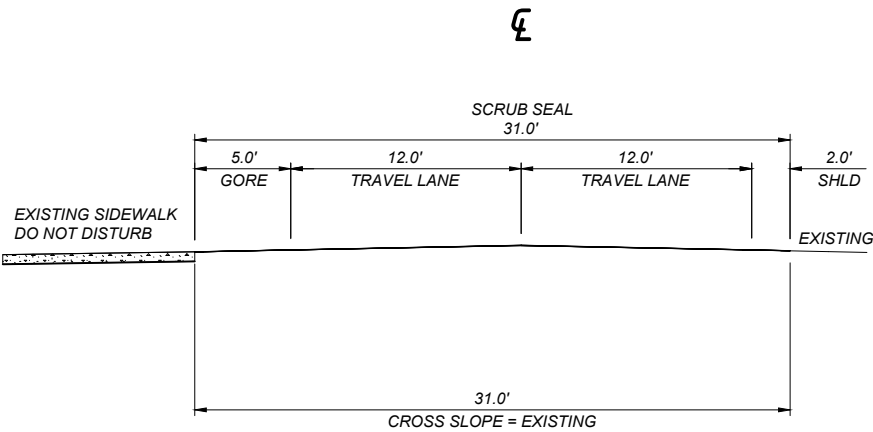
TYPICAL SECTION NO. 1
MAINLINE



QUANTITIES			
UNIT	AGGREGATE	UNIT	BIT. MATERIAL
	SCRUB SEAL COVER		SCRUB SEAL EMULSION
AREA square feet	311	square yards PER STATION	311
cubic yards PER STATION		tons PER STATION	0.56
tons PER STATION		gals. PER STATION	
square yards PER STATION			

1+09.12 TO 4+89.58 THEN TO TYP. NO. 3

TYPICAL SECTION NO. 2
MAINLINE



QUANTITIES			
UNIT	AGGREGATE	UNIT	BIT. MATERIAL
	SCRUB SEAL COVER		SCRUB SEAL EMULSION
AREA square feet	344	square yards PER STATION	344
cubic yards PER STATION		tons PER STATION	0.61
tons PER STATION		gals. PER STATION	
square yards PER STATION			

SHEET NO.

3

TYPICAL SECTION

MALTA - EAST
COUNTY
PHILLIPS
PROJECT ID
NH 1-8(75)471
UPN
10531000

PROJECT NAME
COUNTY
PROJECT ID
UPN

DESIGNED BY	02/2025
A. BORSCHER	
REVIEWED BY	02/2025
J. FLEMING	
CHECKED BY	01/2026
J. CEREC	
10531000RDTYP001.DWG	

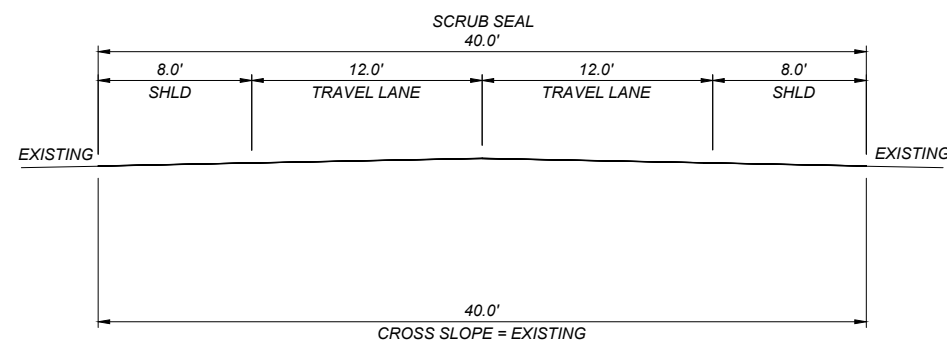
MONTANA
Department of Transportation
ROAD PLANS
2/5/2026 9:32 AM

4+89.58 TO 10+52.40 THEN TO TYP. NO. 4
10+52.40 BK. = 10+93.40 AH.

TYPICAL SECTION NO. 3

MAINLINE

4



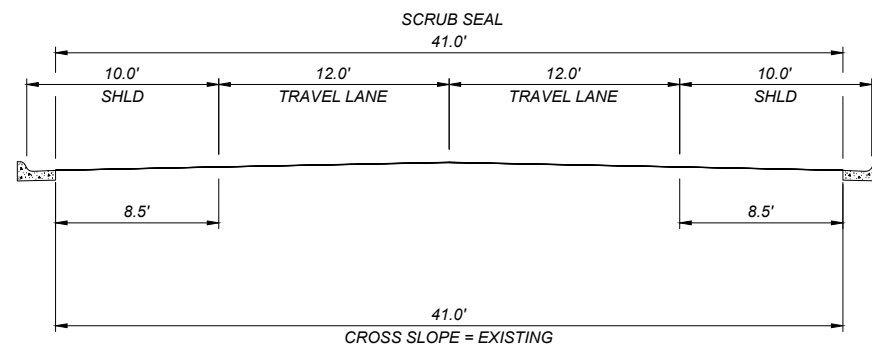
QUANTITIES			
UNIT	AGGREGATE	UNIT	BIT. MATERIAL
	SCRUB SEAL COVER		SCRUB SEAL EMULSION
AREA square feet	444	square yards PER STATION	444
cubic yards PER STATION		tons PER STATION	0.79
tons PER STATION			
square yards PER STATION			

10+93.40 TO 31+78.50 THEN TO TYP. NO. 5

TYPICAL SECTION NO. 4

MAINLINE

4



QUANTITIES			
UNIT	AGGREGATE	UNIT	<i>BIT. MATERIAL</i>
	SCRUB SEAL COVER		SCRUB SEAL EMULSION
AREA square feet	456	square yards PER STATION	456
cubic yards PER STATION		tons PER STATION	0.81
tons PER STATION			
square yards PER STATION			

SHEET NO.

4

TYPICAL SECTION

MALTA - EAST

PHILLIPS

NH 1-8(75)471

10531000

PROJECT NAME

COUNTY

PROJECT ID

UPN

DESIGNED BY

02/2025

REVIEWED BY

--	--



MONTANA
Department of Transportation

ROAD PLANS

2/5/2026 9:32 AM

31+78.50 TO 36+09.00 THEN TO TYP. NO. 6

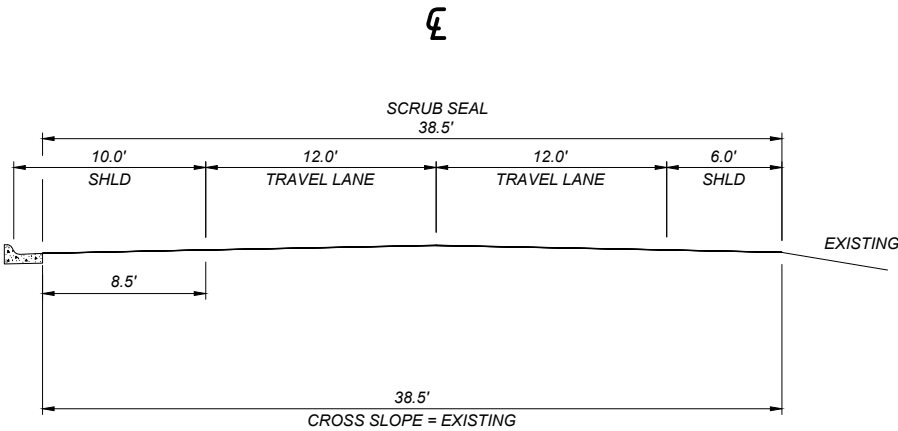
SHEET NO.

5

TYPICAL SECTION

TYPICAL SECTION NO. 5

MAINLINE

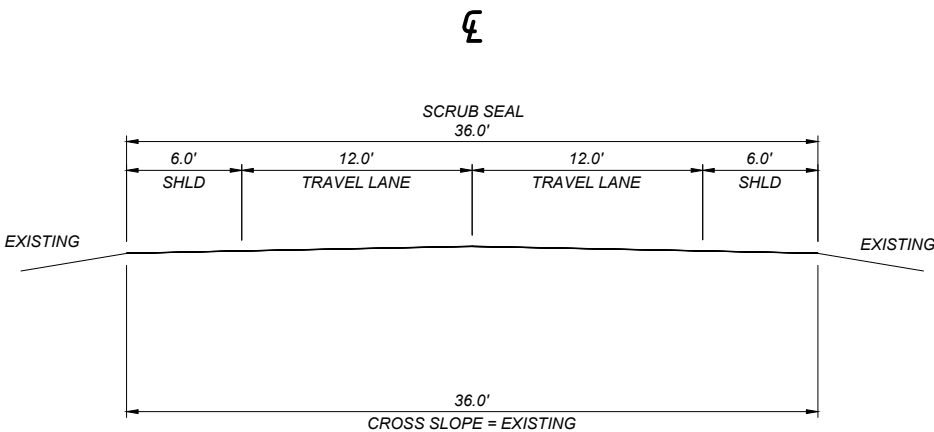


QUANTITIES			
UNIT	AGGREGATE	UNIT	BIT. MATERIAL
	SCRUB SEAL COVER		SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	428
cubic yards PER STATION		tons PER STATION	0.76
tons PER STATION		gals. PER STATION	
square yards PER STATION	428		

36+09.00 TO 740+14.25 BE
741+15.75 BE
812+17.20 BK = 819+52.50 AH EQUATION
920+00.00

TYPICAL SECTION NO. 6

MAINLINE



QUANTITIES			
UNIT	AGGREGATE	UNIT	BIT. MATERIAL
	SCRUB SEAL COVER		SCRUB SEAL EMULSION
AREA square feet		square yards PER STATION	400
cubic yards PER STATION		tons PER STATION	0.71
tons PER STATION		gals. PER STATION	
square yards PER STATION	400		

PROJECT NAME

MALTA - EAST

COUNTY

PHILLIPS

PROJECT ID

NH 1-8(75)471

UPN

10531000

DESIGNED BY

A. BORSCHEL 02/2025

REVIEWED BY

J. FLEMING 02/2025

CHECKED BY

J. CERECK 01/2026

10531000RDTYP001.DWG




ROAD PLANS

2/5/2026 9:32 AM

SUMMARY

PROJECT NAME		MALTA - EAST	
DESIGNED BY	COUNTY		PHILLIPS
	PROJECT ID		NH 1-8(75)471
	UPN		10531000
A. BORSCHEL	02/2025	J. FLEMING	02/2025
J. CERECK	01/2026	10531000RDSUM001.DWG	



MONTANA

Department of Transportation

ROAD PLANS

SURFACING									
STATION		linear feet				FOR	AGGREGATE	BITUMINOUS MATERIAL	REMARKS
		GROSS	NET	+	-		sq. yards	tons	
							COVER TYPE I	SCRUB SEAL EMULSION	
FROM	TO								
0+16.80	1+09.12	92.32	92.32				287	0.5	TYPICAL SECTION NO. 1
1+09.12	4+89.58	380.46	380.46				1,309	2.3	TYPICAL SECTION NO. 2
4+89.58	10+52.40	562.82	562.82				2,499	4.4	TYPICAL SECTION NO. 3
10+52.40 BK.	10+93.40 AH.				41.00	EQUATION			
10+93.40	31+78.50	2,126.10	2,085.10				9,508	16.9	TYPICAL SECTION NO. 4
31+78.50	36+09.00	430.50	430.50				1,843	3.3	TYPICAL SECTION NO. 5
36+09.00									
740+14.25 BE.	741+15.75 BE.				101.50	BRIDGE			
812+17.20 BK.	819+52.50 AH.				735.30	EQUATION			
	920+00.00	88,391.00	87,554.20				350,217	621.6	TYPICAL SECTION NO. 6
						ADDITIONAL SURFACING	620	1.1	
TOTAL		91,983.20	91,105.40	~	877.80		366,283	650.1	

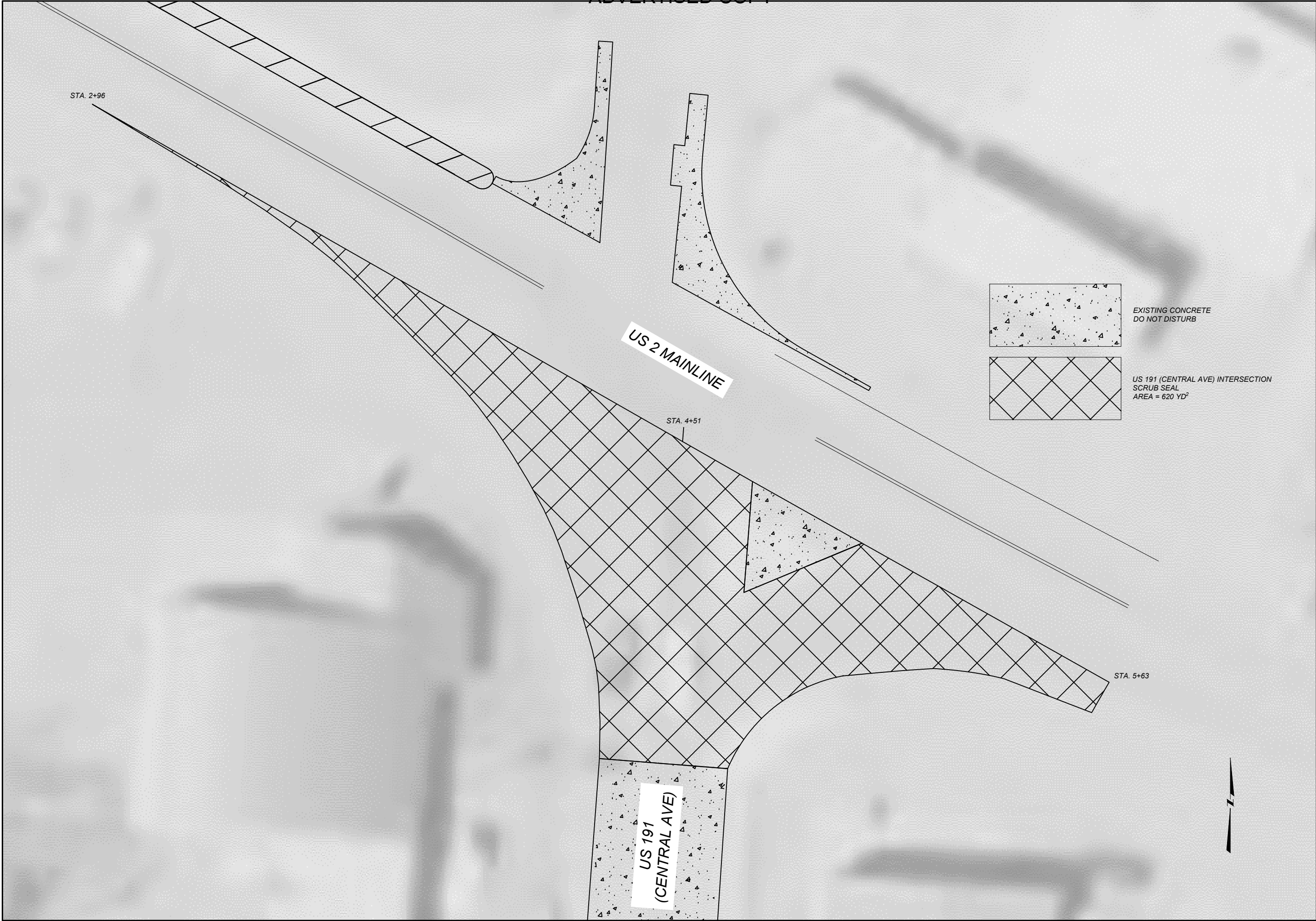
ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)									
STATION		linear feet				FOR	AGGREGATE	BITUMINOUS MATERIAL	REMARKS
		GROSS	NET	+	-		sq. yards	tons	
							COVER TYPE I	SCRUB SEAL EMULSION	
FROM	TO								
4+51.00						US 191 (CENTRAL AVE)	620	1.1	RT. SEE DETAIL.
SUBTOTAL		~	~	~	~		620	1.1	

RUMBLE STRIPS					
STATION		miles		gals	REMARKS
		RUMBLE STRIPS		EMULSIFIED ASPHALT FOG SEAL #	
		INTER- MITTENT	CENTERLINE TYPE 3		
FROM	TO				
36+09.00	740+14.25 BE	26.6	13.3	4,682	
741+15.75 BE					
812+17.20 BK	819+52.50 AH				
	920+00.00	6.4	3.2	1,126	
SUBTOTAL		33.0	16.5	5,808	
TOTAL		33.0	16.5	~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS

PAVEMENT MARKINGS				
ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	624		624
STRIPING - YELLOW PAINT	gallon	218		218
WORDS & SYMBOLS - WHITE PAINT	gallon	10		10
STRIPING - WHITE EPOXY	gallon		831	831
STRIPING - YELLOW EPOXY	gallon		290	290
WORDS & SYMBOLS - WHITE EPOXY	gallon		14	14
CURB MARKINGS - YELLOW EPOXY	gallon		17	17
FINAL SWEEP AND BROOM	course mile			17.3

BASED ON 1 APPLICATION.



<div><div>MONTANA Department of Transportation</div></div> <div>ROAD PLANS</div>				DESIGNED BY		PROJECT NAME	
				A. BORSCHER02/2025		MALTA - EAST	
				REVIEWED BY		COUNTY	
				J. FLEMING02/2025		PHILLIPS	
				CHECKED BY		PROJECT ID	
				J. CERECK01/2026		NH 1-8(75)471	
				10531000RDEET001.DWG		UPN	
3/31/2026 9:47 AM				10531000		US 191 (CENTRAL AVE) INTERSECTION	
						SHEET NO. 7	