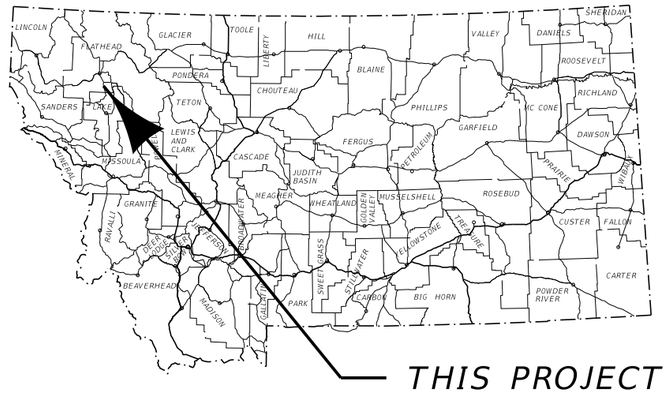
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MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NH 5-3(151)93
MICROSURFACING, MILL/FILL
LAKESIDE - N & S
LAKE & FLATHEAD COUNTIES

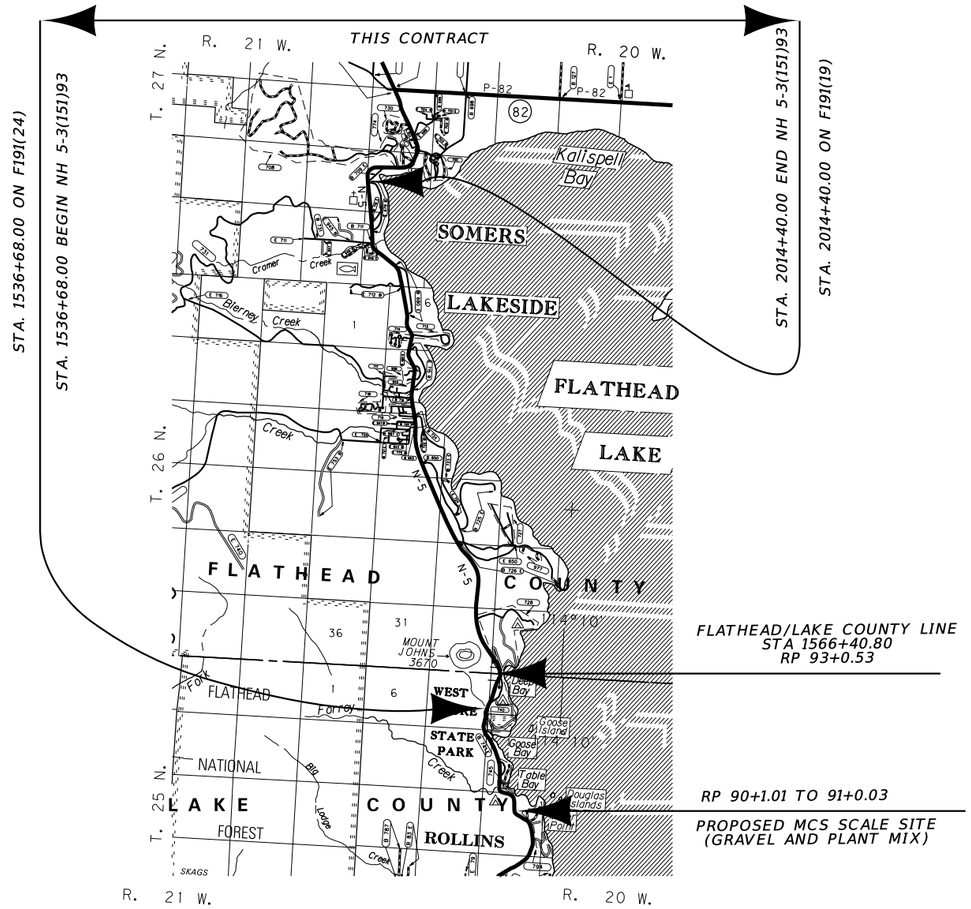
PROJECT DESIGN DATA		
PRESENT	2019	A.D.T. = 7,420
LETTING	2021	A.D.T. = 8,110
DESIGN	2044	A.D.T. = 11,590
		D.H.V. = 1,590
		TRUCKS = 6.3%
		V. = 60 MPH
		18 KIP ESAL'S = 232
		GROWTH RATE = 1.8%

LETTING DATE - _____

LENGTH 9.1 MILES

SURFACING SOURCES-CONTRACTOR FURNISHED

RP 92+0.9 TO RP 102+0.0



3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9706000rdtl001.dgn	DESIGNED BY	KEVIN JUDGE	9/1/2020	ROAD PLANS
2		1/22/2021	REVIEWED BY			UPN 9706000
		1:35:59 PM CPS - U3162	CHECKED BY			

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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

MICROSURFACING AGGREGATE WEIGHT (SCRATCH COURSE)	= 26.6 LBS PER SQ. YARD
MICROSURFACING AGGREGATE WEIGHT (SCRATCH COURSE RUT FILL)	= 6.6 LBS PER SQ. YARD
MICROSURFACING AGGREGATE WEIGHT (SURFACING COURSE)	= 28.0 LBS PER SQ. YARD
MICROSURFACING (SCRATCH COURSE)	= 29.7 LBS PER SQ YARD (LIQUID UNBROKEN EMULSION)
MICROSURFACING (SURFACING COURSE)	= 31.2 LBS PER SQ. YARD (LIQUID UNBROKEN EMULSION)
MICROSURFACING ASPHALT EMULSION (RUT FILL & SCRATCH COURSE)	= 11.7% OF MICROSURFACING AGG. (LIQUID UNBROKEN EMULSION)
MICROSURFACING ASPHALT EMULSION (SURFACING COURSE)	= 11.4% OF MICROSURFACING AGG. (LIQUID UNBROKEN EMULSION)
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.	= 5.8% 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 - TACK (CONCRETE SURFACES)	= 0.10 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)
CRACK SEAL	= 0.457 LBS. PER LNFT

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.

AS-BUILTS

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

F 191(19)
F 191(24)

LINEAR AND LEVEL DATA

LENGTH OF ROADWAY IN	LAKE COUNTY	2 LANE RURAL	2,966.30 ft
LENGTH OF ROADWAY IN	FLATHEAD COUNTY	2 LANE RURAL	44,896.10 ft
	TOTAL LENGTH OF NH 5-3(151)93		47,862.40 ft

BEARING SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011

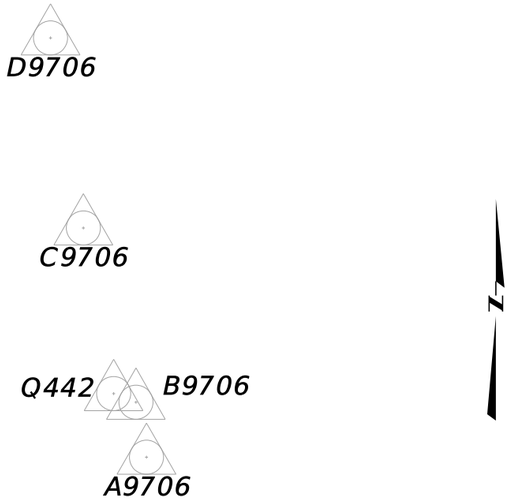
LEVEL DATUM SOURCE

NAVD88- ELEVATIONS ARE DERIVED FROM DIFFERENTIAL LEVELS HOLDING THE PUBLISHED ELEVATION AT NGS BENCHMARKS Q442 AND R442

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CONTROL DIAGRAM

NO SCALE



CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
97A	1,408,027.274	813,325.314	2921.27	FOUND 2" MDT ALUMINUM CONTROL CAP STAMPED "97A 2002" ALONG HIGHWAY 93, 48' LEFT OF MILEPOST 97.725. 22' WEST OF GUARDRAIL. 17' NORTHEAST OF JERSEY RAIL FOR BLACKTAIL ROAD. WITNESS POST 3' EAST.
A5879	1,407,961.278	813,438.512	2920.14	FOUND 2" MDT ALUMINUM CONTROL CAP STAMPED "A5879 2008" 62' RIGHT OF MILEPOST 97.715. 22' NORTH OF CENTERLINE OF APPROACH INTO A-ABLE FISHING CHARTER. SET WITNESS POST 3' NORTH.
A9706	1,409,117.434	813,429.021	2915.72	SET 5/8"X8" REBAR W/ 2" MDT ALUMINUM CONTROL CAP STAMPED "A9706 2019" IN THE CENTER OF THE SIDEWALK. 38' RIGHT OF MILEPOST 98.08. 50' SOUTH OF CENTERLINE FOR ADAMS STREET. 12' NORTHWEST OF LAKESIDE VOLUNTEER PARK SIGN. 10' NORTHEAST OF PEDESTRIAN CROSSING POLE. SET WITNESS POST 5' EAST.
B9706	1,409,311.354	813,391.904	2914.19	FOUND 3/4" AC IN 6"X6" MONUMENT BOX STAMPED 1/4 SEC S7 & S18 10999LS. 25' RIGHT OF MILEPOST 98.11. 24' EAST OF POWERPOLE #075003. 6' NORTHWEST OF CURB INLET.
C5879	1,406,375.735	813,718.617	3023.66	FOUND 2" MDT ALUMINUM CONTROL CAP STAMPED "C5879 2008". 34' RIGHT OF MILEPOST 97.41. 6.8' EAST OF GUARDRAIL END. 47' NORTH OF CENTERLINE OF POLITICAL HILL ROAD. 2' WEST OF WITNESS POST.
C9706	1,409,924.848	813,207.206	2906.18	SET 5/8"X8" REBAR W/ 2" MDT ALUMINUM CONTROL CAP STAMPED "C9706 2019". REBAR SET IN THE ASPHALT. LOCATED 30' LEFT OF MILEPOST 98.23. 38' SOUTH OF CENTERLINE OF BILLS ROAD. 64' NORTHERLY OF THE CONOCO SIGN.
D9706	1,410,593.483	813,091.440	2904.93	SET 5/8"X8" REBAR W/ 2" MDT ALUMINUM CONTROL CAP STAMPED "D9706 2019" IN CENTER OF SIDEWALK. LOCATED 33' LEFT OF MILEPOST 98.345. 80' SOUTH OF BERNEY CREEK ROAD. 8' NORTHEAST OF FIDELITY NATIONAL TITLE SIGN.
Q442	1,409,341.630	813,313.380	2913.44	FOUND NGS BENCHMARK, SEE NGS DATASHEET FOR MORE INFORMATION
R442	1,406,322.440	813,818.117	3022.74	FOUND NGS BENCHMARK, SEE NGS DATASHEET FOR MORE INFORMATION

CONTROL NOTE:

THIS PROJECT IS ON THE MONTANA COORDINATE SYSTEM NAD83-2011. NORTHING AND EASTING COORDINATES ARE EXPRESSED IN UNITS OF INTERNATIONAL FEET AND ELEVATIONS ARE IN UNITS OF U.S. SURVEY FEET.

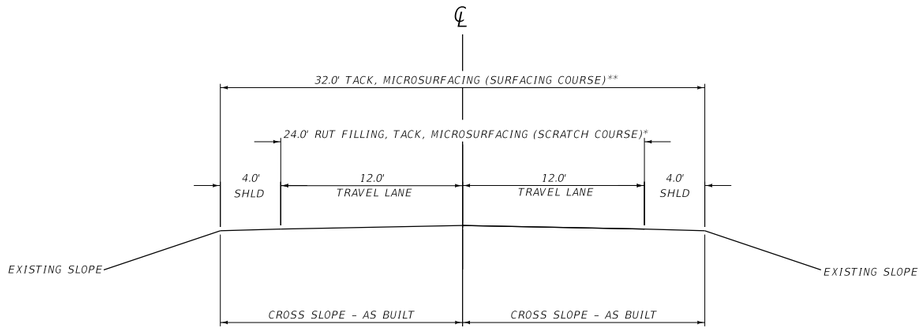
DIMENSIONS SHOWN ON THE PLANS ARE GRID. ALL SURVEY AND STAKING REQUIRE THE USE OF COMBINATION SCALE FACTOR (CSF) TO CONVERT GRID DIMENSIONS TO GROUND DIMENSIONS (GRID DISTANCE ÷ CSF = GROUND DISTANCE).

THE CSF FOR THIS PROJECT IS 0.99940925.

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TYPICAL SECTION NO. 1

MAINLINE



QUANTITIES										
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL				
	MICROSURFACING				ASPHALT EMULSION			TACK	
	SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**		SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**	SCRATCH COURSE	SURFACING COURSE
square yards PER STATION	267	267	356	square yards PER STATION	267	267	356	267	356
tons PER STATION	0.9	3.6	5.0	tons PER STATION	0.10	0.42	0.57		
				gals. PER STATION				13	18
				TOTAL gals. PER STATION				31	
TOTAL tons PER STATION	9.5			TOTAL tons PER STATION	1.09				

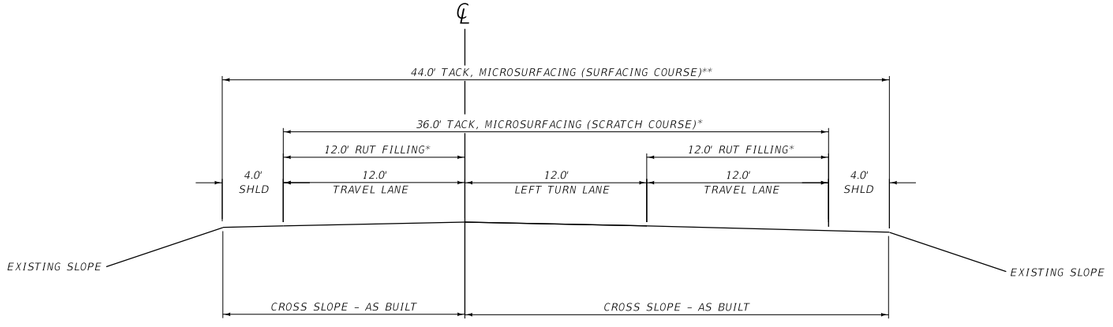
* PLACE RUT FILLING COURSE PRIOR TO APPLICATION OF THE SCRATCH COURSE. INCLUDE RUT FILLING AGGREGATE AND EMULSION IN THE QUANTITIES FOR PAYMENT OF THE SCRATCH COURSE. THE SCRATCH COURSE IS INTENDED ONLY AS A LEVELING COURSE. ADJUST SCRATCH COURSE QUANTITIES AS DIRECTED BY THE PROJECT MANAGER.

** 1/2" MAX DEPTH FOR SURFACING COURSE

1536+68.00
1564+54.80 BK = 1564+61.30 AH
1589+72.30 BK = 1589+66.80 AH
1603+11.40 BK = 1603+18.80 AH
1636+81.40 BK = 1636+46.60 AH
TO 1686+50.00 THEN TYP. NO. 9
1698+64.40 TO 1730+70.00 THEN TYP. NO. 9
1763+81.62 TO 1765+57.39
1765+57.39 TO 1771+57.40 TRANS TYP. NO. 1 TO TYP. NO. 2
1785+14.30 TO 1788+99.90
1788+99.90 TO 1790+90.00 TRANS TYP. NO. 1 TO TYP. NO. 3
1828+00.00
1861+83.10 BK = 1861+58.90 AH EQUATION
TO 1866+47.00
1866+47.00 TO 1870+07.00 TRANS TYP. NO. 1 TO TYP. NO. 2
1879+98.30 TO 1892+51.00
1892+51.00 TO 1895+49.00 TRANS TYP. NO. 1 TO TYP. NO. 2
1902+36.00 TO 1907+80.00 THEN TYP. NO. 9
1930+60.96
1966+85.80 BK = 1967+08.50 AH EQUATION
1979+74.10 BK = 1979+74.50 AH EQUATION
TO 2013+66.00
2013+66.00 TO 2014+40.00 TRANS TYP. NO. 1 TO TYP. NO. 8

TYPICAL SECTION NO. 2

MAINLINE



QUANTITIES										
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL				
	MICROSURFACING				ASPHALT EMULSION			TACK	
	SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**		SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**	SCRATCH COURSE	SURFACING COURSE
square yards PER STATION	267	400	489	square yards PER STATION	267	400	489	400	489
tons PER STATION	0.9	5.3	6.8	tons PER STATION	0.10	0.62	0.78		
				gals. PER STATION				20	24
				TOTAL gals. PER STATION				44	
TOTAL tons PER STATION	13.0			TOTAL tons PER STATION	1.50				

* PLACE RUT FILLING COURSE PRIOR TO APPLICATION OF THE SCRATCH COURSE. INCLUDE RUT FILLING AGGREGATE AND EMULSION IN THE QUANTITIES FOR PAYMENT OF THE SCRATCH COURSE. THE SCRATCH COURSE IS INTENDED ONLY AS A LEVELING COURSE. ADJUST SCRATCH COURSE QUANTITIES AS DIRECTED BY THE PROJECT MANAGER.

** 1/2" MAX DEPTH FOR SURFACING COURSE

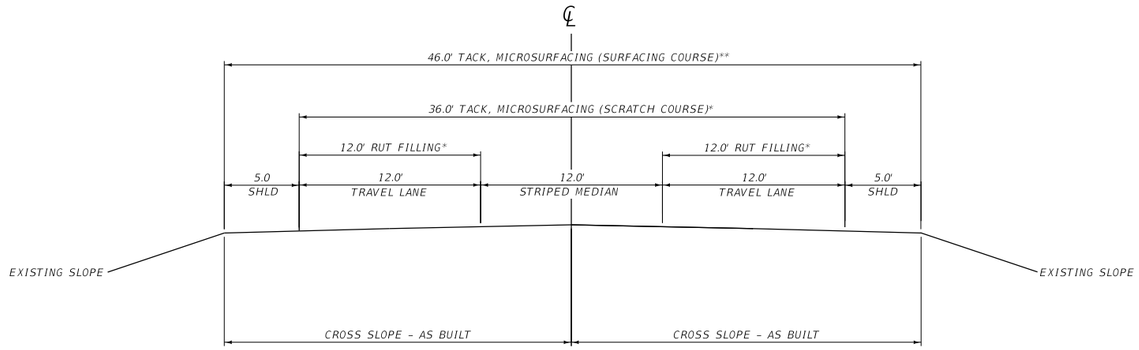
1771+57.40 TO 1779+14.30
1779+14.30 TO 1785+14.30 TRANS. TYP. NO. 2 TO TYP. NO 1
1870+07.00 TO 1876+38.30
1876+38.30 TO 1879+98.30 TRANS. TYP. NO. 2 TO TYP. NO. 1
1895+49.00 TO 1897+22.00
1897+22.00 TO 1902+36.00 TRANS. TYP. NO. 2 TO TYP. NO. 1

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TYPICAL SECTION NO. 3

MAINLINE

1790+90.00 ONLY
1790+90.00 TO 1791+45.00 TRANS TYP. NO. 3 TO TYP. NO. 4



QUANTITIES										
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL				
	MICROSURFACING				ASPHALT EMULSION			TACK	
	SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**		SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**	SCRATCH COURSE	SURFACING COURSE
square yards PER STATION	267	400	511	square yards PER STATION	267	400	511	400	511
tons PER STATION	0.9	5.3	7.2	tons PER STATION	0.10	0.62	0.82		
				gals. PER STATION				20	26
				TOTAL gals. PER STATION				46	
TOTAL tons PER STATION	13.4			TOTAL tons PER STATION	1.54				

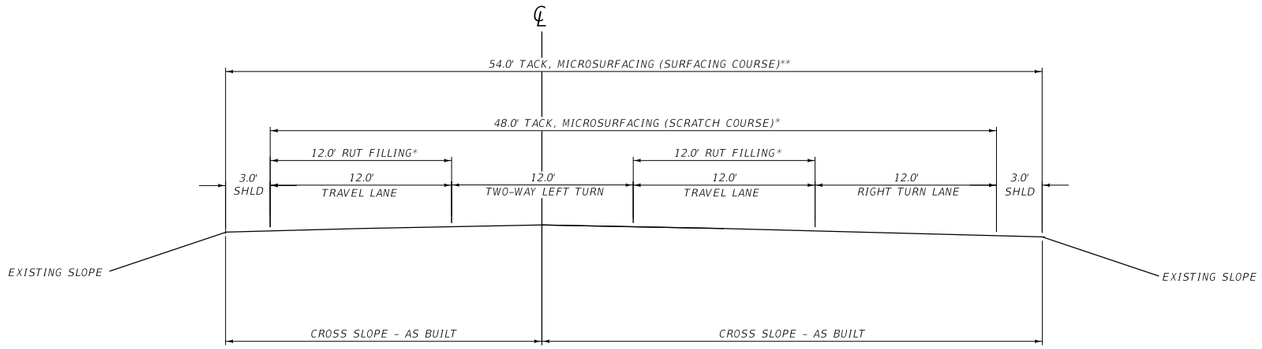
* PLACE RUT FILLING COURSE PRIOR TO APPLICATION OF THE SCRATCH COURSE. INCLUDE RUT FILLING AGGREGATE AND EMULSION IN THE QUANTITIES FOR PAYMENT OF THE SCRATCH COURSE. THE SCRATCH COURSE IS INTENDED ONLY AS A LEVELING COURSE. ADJUST SCRATCH COURSE QUANTITIES AS DIRECTED BY THE PROJECT MANAGER.

** 1/2" MAX DEPTH FOR SURFACING COURSE

TYPICAL SECTION NO. 4

MAINLINE

1791+45.00 TO 1793+35.00
1793+35.00 TO 1795+30.00 TRANS. TYP. NO. 4 TO TYP. NO. 5



QUANTITIES										
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL				
	MICROSURFACING				ASPHALT EMULSION			TACK	
	SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**		SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**	SCRATCH COURSE	SURFACING COURSE
square yards PER STATION	267	533	600	square yards PER STATION	267	533	600	533	600
tons PER STATION	0.9	7.1	8.4	tons PER STATION	0.10	0.83	0.96		
				gals. PER STATION				27	30
				TOTAL gals. PER STATION				57	
TOTAL tons PER STATION	16.4			TOTAL tons PER STATION	1.89				

* PLACE RUT FILLING COURSE PRIOR TO APPLICATION OF THE SCRATCH COURSE. INCLUDE RUT FILLING AGGREGATE AND EMULSION IN THE QUANTITIES FOR PAYMENT OF THE SCRATCH COURSE. THE SCRATCH COURSE IS INTENDED ONLY AS A LEVELING COURSE. ADJUST SCRATCH COURSE QUANTITIES AS DIRECTED BY THE PROJECT MANAGER.

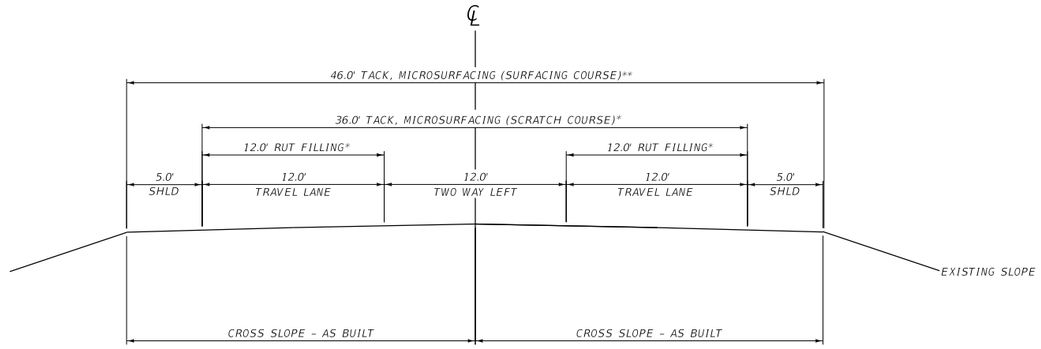
** 1/2" MAX DEPTH FOR SURFACING COURSE

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TYPICAL SECTION NO. 5

MAINLINE

1795+30.00
1796+82.30 BK = 1796+85.80 AH EQUATION
TO 1799+48.50 THEN TYP. NO. 6



QUANTITIES										
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL				
	MICROSURFACING				ASPHALT EMULSION			TACK	
	SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**		SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**	SCRATCH COURSE	SURFACING COURSE
square yards PER STATION	267	400	511	square yards PER STATION	267	400	511	400	511
tons PER STATION	0.9	5.3	7.2	tons PER STATION	0.10	0.62	0.82		
				gals. PER STATION				20	26
				TOTAL gals. PER STATION				46	
TOTAL tons PER STATION	13.4			TOTAL tons PER STATION	1.54				

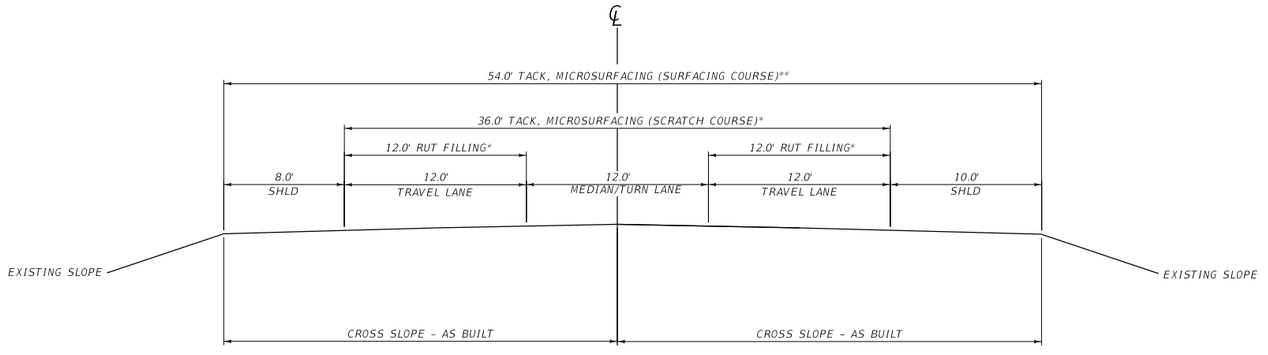
* PLACE RUT FILLING COURSE PRIOR TO APPLICATION OF THE SCRATCH COURSE. INCLUDE RUT FILLING AGGREGATE AND EMULSION IN THE QUANTITIES FOR PAYMENT OF THE SCRATCH COURSE. THE SCRATCH COURSE IS INTENDED ONLY AS A LEVELING COURSE. ADJUST SCRATCH COURSE QUANTITIES AS DIRECTED BY THE PROJECT MANAGER.
** 1/2" MAX DEPTH FOR SURFACING COURSE

TYPICAL SECTION NO. 6

MAINLINE

1799+48.50
1803+28.00 BK = 1802+63.10 AH EQUATION
TO 1816+55.00

1816+55.00
1817+81.90 BK = 1817+80.40 AH EQUATION
TO 1819+21.60 TRANS. TYP. NO. 6 TO TYP. NO. 7



QUANTITIES										
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL				
	MICROSURFACING				ASPHALT EMULSION			TACK	
	SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**		SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**	SCRATCH COURSE	SURFACING COURSE
square yards PER STATION	267	400	600	square yards PER STATION	267	400	600	400	600
tons PER STATION	0.9	5.3	8.4	tons PER STATION	0.10	0.62	0.96		
				gals. PER STATION				20	30
				TOTAL gals. PER STATION				50	
TOTAL tons PER STATION	14.6			TOTAL tons PER STATION	1.68				

* PLACE RUT FILLING COURSE PRIOR TO APPLICATION OF THE SCRATCH COURSE. INCLUDE RUT FILLING AGGREGATE AND EMULSION IN THE QUANTITIES FOR PAYMENT OF THE SCRATCH COURSE. THE SCRATCH COURSE IS INTENDED ONLY AS A LEVELING COURSE. ADJUST SCRATCH COURSE QUANTITIES AS DIRECTED BY THE PROJECT MANAGER.
** 1/2" MAX DEPTH FOR SURFACING COURSE

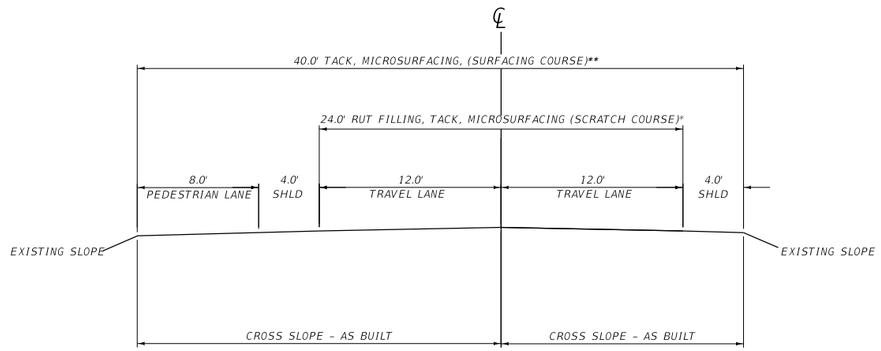
2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9706000rdtyp001.dgn	DESIGNED BY KEVIN JUDGE	9/1/2020	ROAD PLANS	LAKESIDE N & S	NH 5-3(151)93
1		1/22/2021	REVIEWED BY		LAKE & FLATHEAD COUNTIES	UPN 9706000	6
		1:36:35 PM CPS – U3162	CHECKED BY				

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TYPICAL SECTION NO. 7

MAINLINE

1819+21.60 TO 1827+20.00
1827+20.00 TO 1828+00.00 TRANS. TYP. NO. 7 TO TYP. NO. 1



QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL				
	MICROSURFACING				ASPHALT EMULSION			TACK	
	SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**		SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**	SCRATCH COURSE	SURFACING COURSE
square yards PER STATION	267	267	444	square yards PER STATION	267	267	444	267	444
tons PER STATION	0.9	3.6	6.2	tons PER STATION	0.10	0.42	0.71		
				gals. PER STATION				13	22
				TOTAL gals. PER STATION				35	
TOTAL tons PER STATION	10.7			TOTAL tons PER STATION	1.23				

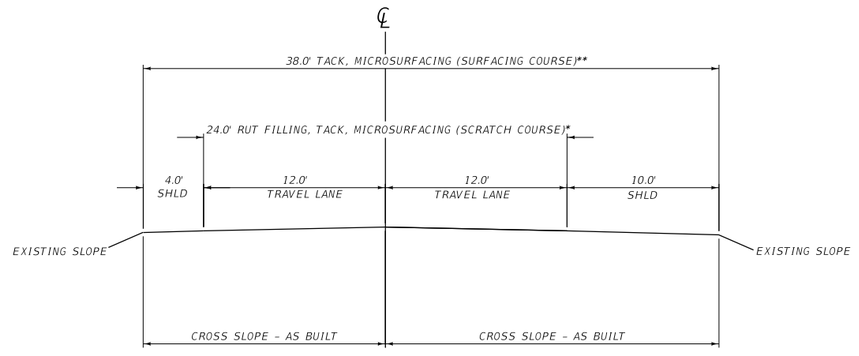
* PLACE RUT FILLING COURSE PRIOR TO APPLICATION OF THE SCRATCH COURSE. INCLUDE RUT FILLING AGGREGATE AND EMULSION IN THE QUANTITIES FOR PAYMENT OF THE SCRATCH COURSE. THE SCRATCH COURSE IS INTENDED ONLY AS A LEVELING COURSE. ADJUST SCRATCH COURSE QUANTITIES AS DIRECTED BY THE PROJECT MANAGER.

** 1/2" MAX DEPTH FOR SURFACING COURSE

TYPICAL SECTION NO. 8

MAINLINE

2014+40.00 ONLY



QUANTITIES

UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL				
	MICROSURFACING				ASPHALT EMULSION			TACK	
	SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**		SCRATCH COURSE RUT FILL*	SCRATCH COURSE*	SURFACING COURSE**	SCRATCH COURSE	SURFACING COURSE
square yards PER STATION	267	267	422	square yards PER STATION	267	267	422	267	422
tons PER STATION	0.9	3.6	5.9	tons PER STATION	0.10	0.42	0.67		
				gals. PER STATION				13	21
				TOTAL gals. PER STATION				34	
TOTAL tons PER STATION	10.4			TOTAL tons PER STATION	1.19				

* PLACE RUT FILLING COURSE PRIOR TO APPLICATION OF THE SCRATCH COURSE. INCLUDE RUT FILLING AGGREGATE AND EMULSION IN THE QUANTITIES FOR PAYMENT OF THE SCRATCH COURSE. THE SCRATCH COURSE IS INTENDED ONLY AS A LEVELING COURSE. ADJUST SCRATCH COURSE QUANTITIES AS DIRECTED BY THE PROJECT MANAGER.

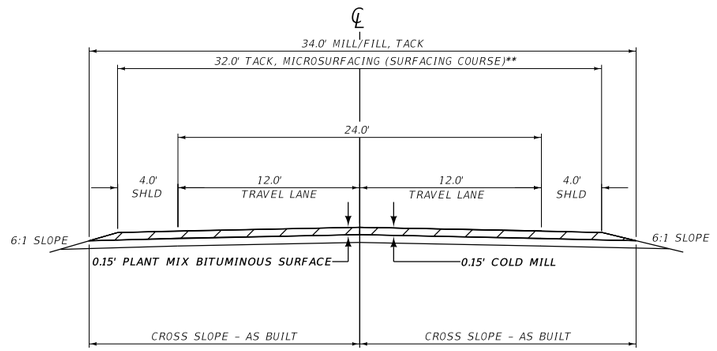
** 1/2" MAX DEPTH FOR SURFACING COURSE

AWARD COPY

TYPICAL SECTION NO. 9

MAINLINE

1686+50.00 TO 1698+64.40 (RP 95+0.81 TO 96+0.04) THEN TYP. NO. 1
1730+70.00 TO 1763+81.62 (RP 96+0.62 TO RP 97+0.26) THEN TYP. NO. 1
1907+80.00 TO 1930+60.96 (RP 99+0.97 TO RP 100+0.40) THEN TYP. NO. 1



QUANTITIES

UNIT	AGGREGATE		COLD MILLING	UNIT	BITUMINOUS MATERIAL		
	MICRO-SURFACING**	PLANT MIX			ASPHALT EMULSION SURFACING COURSE **	TACK	
						SURFACING COURSE	MILL/FILL
AREA square feet		4.95		square yards PER STATION	356	356	378
cubic yards PER STATION		18.3		tons PER STATION	0.57		
tons PER STATION	5.0	35.3		gals. PER STATION		18	19
square yards PER STATION	356		378	TOTAL gals. PER STATION		37	

** 1/2" MAX DEPTH FOR SURFACING COURSE

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9706000rdtyp002.dgn	DESIGNED BY	KEVIN JUDGE	9/1/2020	ROAD PLANS	LAKESIDE N & S	NH 5-3(151)93
		1/22/2021	REVIEWED BY					
1		1:36:52 PM CPS - U3162	CHECKED BY			LAKE & FLATHEAD COUNTIES	UPN 9706000	8

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SUMMARY

SURFACING

STATION		linear feet				FOR	AGGREGATE			BITUMINOUS MATERIAL			REMARKS
							tons		cu. yards	sq. yards	tons	gallons	
FROM	TO	GROSS	NET	+	-		MICROSURFACING TYPE 3	COMMERCIAL MIX - 1/2" = PG 64-28	CRUSHED AGG. COURSE	AGGREGATE TREATMENT	MICROSURFACING ASPHALT EMULSION	EMULSIFIED ASPHALT - TACK COAT	
1536+68.00													
1564+54.80 Bk	1564+61.30 AH				6.50	EQUATION							
	1566+40.80	2,972.80	2,966.30				282				32.3	920	TYP. NO. 1
						ADDITIONAL SURFACING		160	20	1,250		62	PROPOSED MCS SCALE RP 90+1.01 TO 91+0.03
SUBTOTAL		2,972.80	2,966.30	~	6.50		282	160	20	1,250	32.3	982	LAKE COUNTY
1566+40.80													
1589+72.30 BK	1589+66.80 AH			5.50		EQUATION							
1603+11.40 BK	1603+18.80 AH				7.40	EQUATION							
1636+81.40 BK	1636+46.60 AH			34.80		EQUATION							
	1686+50.00	12,009.20	12,042.10				1,144				131.3	3,733	TYP. NO. 1
1686+50.00	1698+64.40	1,214.40	1,214.40				61	429			6.9	449	TYP. NO. 9
1698+64.40	1730+70.00	3,205.60	3,205.60				305				34.9	994	TYP. NO. 1
1730+70.00	1763+81.62	3,311.62	3,311.62				166	1,169			18.9	1,225	TYP. NO. 9
1763+81.62	1765+57.39	175.77	175.77				17				1.9	54	TYP. NO. 1
1765+57.39	1771+57.40	600.01	600.01				68				7.8	225	TRANS TYP. NO. 1 TO TYP. NO. 2
1771+57.40	1779+14.30	756.90	756.90				98				11.4	333	TYP. NO. 2
1779+14.30	1785+14.30	600.00	600.00				68				7.8	225	TRANS TYP. NO. 2 TO TYP. NO. 1
1785+14.30	1788+99.90	385.60	385.60				37				4.2	120	TYP. NO. 1
1788+99.90	1790+90.00	190.10	190.10				22				2.5	73	TRANS. TYP. NO. 1 TO TYP. NO. 3
1790+90.00	1791+45.00	55.00	55.00				8				0.9	28	TRANS. TYP. NO. 3 TO TYP. NO. 4
1791+45.00	1793+35.00	190.00	190.00				31				3.6	108	TYP. NO. 4
1793+35.00	1795+30.00	195.00	195.00				29				3.3	100	TRANS. TYP. NO. 4 TO TYP. NO. 5
1795+30.00													
1796+82.30 BK	1796+85.80 AH				3.50	EQUATION							
	1799+48.50	418.50	415.00				56				6.4	191	TYP. NO. 5
1799+48.50													
1803+28.00 BK	1802+63.10 AH			64.90		EQUATION							
	1816+55.00	1706.50	1,771.40				259				29.8	886	TYP. NO. 6
1816+55.00													
1817+81.90 BK	1817+80.40 AH			1.50		EQUATION							
	1819+21.60	266.60	268.10				34				3.9	114	TRANS. TYP. NO. 6 TO TYP. NO. 7
1819+21.60	1827+20.00	798.40	798.40				85				9.8	279	TYP NO. 7
1827+20.00	1828+00.00	80.00	80.00				8				0.9	26	TRANS. TYP. NO. 7 TO TYP. NO. 1
1828+00.00													
1861+83.10 BK	1861+58.90 AH			24.20		EQUATION							
	1866+47.00	3,847.00	3,871.20				368				42.2	1,200	TYP. NO. 1
1866+47.00	1870+07.00	360.00	360.00				41				4.7	135	TRANS. TYP. NO. 1 TO TYP. NO. 2
1870+07.00	1876+38.30	631.30	631.30				82				9.5	278	TYP. NO. 2
1876+38.30	1879+98.30	360.00	360.00				41				4.7	135	TRANS. TYP. NO. 2 TO TYP. NO. 1
1879+98.30	1892+51.00	1,252.70	1,252.70				119				13.7	388	TYP. NO. 1
1892+51.00	1895+49.00	298.00	298.00				34				3.9	112	TRANS. TYP. NO. 1 TO TYP. NO. 2
1895+49.00	1897+22.00	173.00	173.00				22				2.6	76	TYP. NO. 2
1897+22.00	1902+36.00	514.00	514.00				58				6.7	193	TRANS. TYP. NO. 2 TO TYP. NO. 1
1902+36.00	1907+80.00	544.00	544.00				52				5.9	169	TYP. NO. 1
1907+80.00	1930+60.96	2,280.96	2,280.96				114	805			13.0	844	TYP. NO. 9
1930+60.96													
1966+85.80 BK	1967+08.50 AH				22.70	EQUATION							
1979+74.10 BK	1979+74.50 AH				0.40	EQUATION							
	2013+66.00	8,305.04	8,281.94				787				90.3	2,567	TYP. NO. 1
2013+66.00	2014+40.00	74.00	74.00				7				0.8	24	TRANS. TYP. NO. 1 TO TYP. NO. 8
						ADDITIONAL SURFACING		8	4	31		2	ADA CORNER REHABS
SUBTOTAL		44,799.20	44,896.10	130.90	34.00		4,221	2,411	4	31	484.2	15,286	FLATHEAD COUNTY
TOTAL		47,772.00	47,862.40	130.90	40.50		4,503	2,571	24	1,281	516.5	16,268	

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SUMMARY

ADDITIONAL SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	FOR	AGGREGATE tons COMM. MIX 1/2" PG 64-28	AGGREGATE cu. yards CRUSHED AGG. COURSE	BITUMINOUS MATERIAL sq. yards AGGREGATE TREATMENT	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT-TACK COAT	REMARKS
				GRAVEL & PLANT MIX FOR PROPOSED MCS SITE	160	20	1,250	62	LOCATED 0.1 MILES SOUTH OF WILDWOOD RIDGE (RP 91+0.01)
SUBTOTAL		~	~		160	20	1250	62	LAKE COUNTY
				5' STREET EXCAVATION/REPLACEMENT - CURB & GUTTER	4	2	15	1	LAKESIDE BLVD. & US-93 INTERSECTION (NE CORNER)
				4' STREET EXCAVATION/REPLACEMENT - CURB & GUTTER	4	2	16	1	BIERNEY CREEK RD. & US-93 INTERSECTION (SW CORNER)
SUBTOTAL		~	~		8	4	31	2	FLATHEAD COUNTY

SIDEWALK

STATION* FROM	STATION* TO	sq. yards CONCRETE SIDEWALK 4" LEFT	sq. yards CONCRETE SIDEWALK 4" RIGHT	sq. yards DETECTABLE WARNING DEVICES TYPE 1 LEFT	sq. yards DETECTABLE WARNING DEVICES TYPE 1 RIGHT	sq. yards REMOVE SIDEWALK # LEFT	sq. yards REMOVE SIDEWALK # RIGHT	REMARKS
100+01.73	100+16.06		7.8		1.7		7.4	LAKESIDE BLVD. & US-93 INTERSECTION (NE CORNER)
200+02.39	200+28.90	15.9		2.1		17.9		BIERNEY CREEK RD. & US-93 INTERSECTION (SW CORNER)
SUBTOTAL		15.9	7.8	2.1	1.7	17.9	7.4	FLATHEAD COUNTY
TOTAL		23.7		3.8		~		

FOR INFORMATION ONLY - INCLUDE IN THE COST OF STREET EXCAVATION
* SIDEWALK STATION'S FOLLOW TOP BACK OF CURB, CURB AND GUTTER STATIONS. SEE DETAILS.

CRACK SEALING *

STATION FROM	STATION TO	TRANSVERSE & LONGITUDINAL CRACK SEALING CRACK SEALING linear feet	CRACK SEALING pounds	CRACK FILLING - MASTIC pounds	REMARKS
1536+68.00	1566+40.80	1,685	770	155	
SUBTOTAL		1,685	770	155	LAKE COUNTY
1566+40.80	2014+40.00	25,398	11,607	2,345	
SUBTOTAL		25,398	11,607	2,345	FLATHEAD COUNTY
TOTAL		#	12,377	2,500	

* SEE DETAIL SHEET
# FOR INFORMATION ONLY

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	464		464
STRIPING - YELLOW PAINT	gallon	405		405
WORDS & SYMBOLS - WHITE PAINT	gallon	43		43
WORDS & SYMBOLS - YELLOW PAINT	gallon	19		19
STRIPING - WHITE EPOXY	gallon		514	514
STRIPING - YELLOW EPOXY	gallon		448	448
WORDS & SYMBOLS - WHITE EPOXY	gallon		58	58
WORDS & SYMBOLS - YELLOW EPOXY	gallon		26	26
CURB MARKING - YELLOW EPOXY	gallon		2	2
TEMPORARY STRIPING	linear feet	177,838		177,838

BASED ON 2 APPLICATIONS IN MILL/FILL AREA & 1 APPLICATION IN RUT FILL.

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SUMMARY

RUMBLE STRIPS

STATION		miles	gals	REMARKS
FROM	TO	SINUSOIDAL RUMBLE STRIPS	EMULSIFIED ASPHALT FOG SEAL #	
1536+68.00	1566+40.80	0.6	66	SINUSOIDAL CENTERLINE
SUBTOTAL		0.6	66	LAKE COUNTY
1566+40.80	1789+30.00	4.1	495	SINUSOIDAL CENTERLINE
1828+00.00	2014+40.00	3.3	414	SINUSOIDAL CENTERLINE
1589+48.00	1652+84.00	1.9	219	INTERMITTENT SINUSOIDAL SHOULDER LT. & RT.
SUBTOTAL		9.3	1,128	FLATHEAD COUNTY
TOTAL		9.9	~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS

CURB

STATION*		linear feet				REMARKS
		CONCRETE CURB AND GUTTER		REMOVE CURB AND GUTTER #		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	
100+00.00	100+23.28		23.7		23.7	LAKESIDE BLVD. & US-93 INTERSECTION (NE CORNER)
200+00.00	200+30.80	31.4		31.4		BIERNEY CREEK RD. & US-93 INTERSECTION (SW CORNER)
SUBTOTAL		31.4	23.7	31.4	23.7	FLATHEAD COUNTY
TOTAL		55.1		~		

FOR INFORMATION ONLY - INCLUDE IN THE COST OF NEW CURB AND GUTTER
* SIDEWALK STATION'S FOLLOW TOP BACK OF CURB, CURB AND GUTTER STATIONS. SEE DETAILS.

GRADING

RP	cu. yards			REMARKS
	UNCL. EXC.	EXCESS EXC.	EMB.+	
90+1.01				
	32			PROPOSED MCS SCALE SITE
91+0.03				
TOTAL	32	~	~	LAKE COUNTY

REVEGETATION

STATION		lump sum	REMARKS
		REVEGE-TATION	
FROM	TO		
1536+68	1566+41	0.06	INCLUDES PROPOSED MCS SCALE SITE
SUBTOTAL		0.06	LAKE COUNTY
1566+41	2014+40	0.94	
SUBTOTAL		0.94	FLATHEAD COUNTY
TOTAL		1	

SEE SPECIAL PROVISION

COLD MILLING

STATION		sq. yards	REMARKS
		COLD MILLING	
FROM	TO	0.15 ft	
1686+50.00	1698+64.40	4,590	
1730+70.00	1763+81.62	12,518	
1907+80.00	1930+60.96	8,622	
SUBTOTAL		25,730	FLATHEAD COUNTY
TOTAL		25,730	

EQUIPMENT

RP		hours	REMARKS
		MOTOR GRADER	
FROM	TO		
90+1.01	91+0.03	12	PROPOSED MCS SCALE SITE
TOTAL		12	LAKE COUNTY

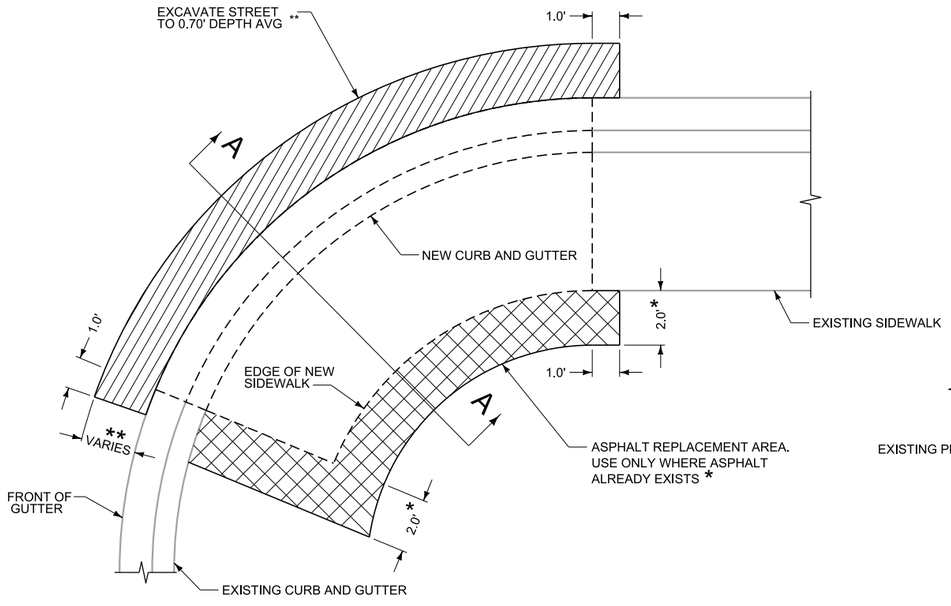
RUT FILLING *

STATION		linear feet	ton #	REMARKS
		RUT FILLING		
FROM	TO			
1536+68.00	1566+40.80	11,891	39	
SUBTOTAL		11,891	39	LAKE COUNTY
1566+40.80	2014+40.00	152,337	503	
SUBTOTAL		152,337	503	FLATHEAD COUNTY
TOTAL		164,228	~	

*INITIAL RUT FILLING USING RUT BOX. PERFORMED PRIOR TO TACK AND MICROSURFACING SCRATCH COURSE.
FOR INFORMATION ONLY - BASED ON 6.6 LBS PER LNFT
QUANTITY BASED ON 400 LINEAR FEET/STATION, EXCLUDING MILL/FILL SECTIONS

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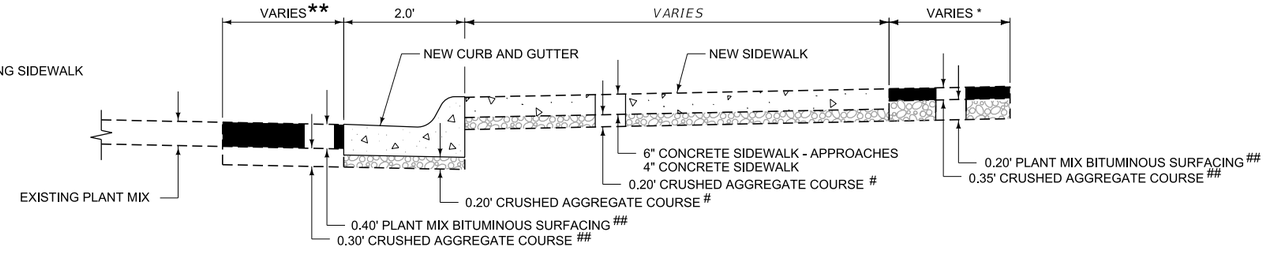
DETAIL



MAXIMUM CONSTRUCTION LIMITS FOR REMOVAL OF EXISTING CURB AND GUTTER AND PLACEMENT OF FORMS FOR NEW CURB AND GUTTER.

MAXIMUM CONSTRUCTION LIMITS FOR REMOVAL OF EXISTING ASPHALT AND PLACEMENT OF FORMS FOR NEW SIDEWALK *

* NOTE: WHEN ADJACENT TO GRASS ONLY REMOVE TO A WIDTH OF 1.0' AND REPLACE WITH SOD. WHEN ADJACENT TO LANDSCAPING REPLACE WITH EQUIVALENT AS DIRECTED BY THE PROJECT MANAGER.



\# ITEMS ARE NOT MEASURED FOR PAYMENT AND INCLUDED IN THE COST OF NEW SIDEWALK OR CURB AND GUTTER. WHERE PLANT MIX IS PLACED NEXT TO NEW SIDEWALK, THE COST OF THE PLANT MIX AND CRUSHED AGGREGATE ARE MEASURED FOR PAYMENT.

\## MEASURED FOR PAYMENT

** STREET EXCAVATION WIDTH VARIES.
SEE DETAIL SHEETS FOR LOCATIONS AND RESPECTIVE WIDTHS.

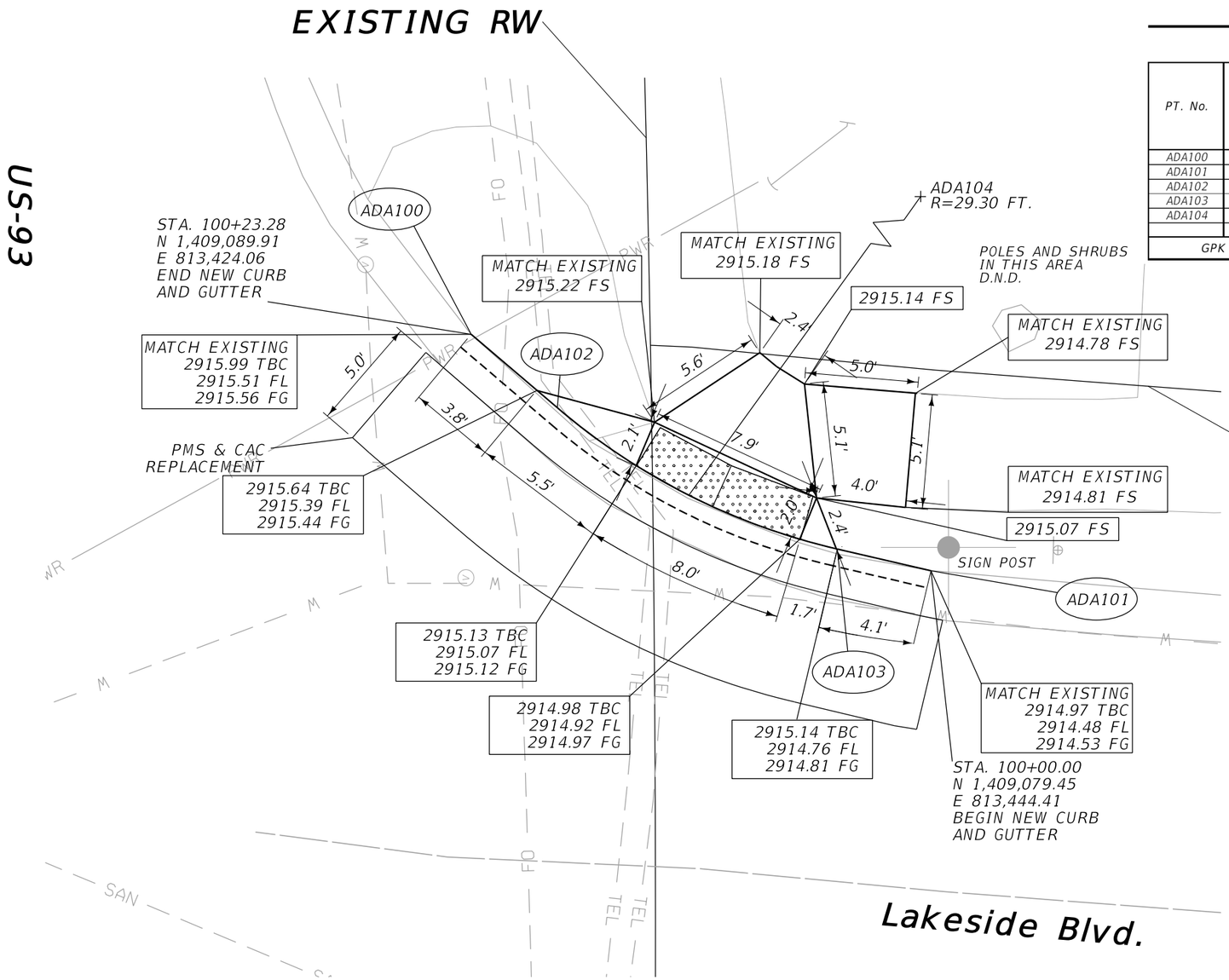
STREET EXCAVATION AND SIDEWALK DETAIL

NO SCALE

3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9706000rddet002.dgn	DESIGNED BY KEVIN JUDGE	8/18/2020	ROAD PLANS	LAKESIDE N & S	NH 5-3(151)93
		1/22/2021	REVIEWED BY				
		1:37:37 PM CPS - U3162	CHECKED BY		LAKE & FLATHEAD COUNTIES	UPN 9706000	12

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LAKESIDE BLVD & US-93 NE CORNER ADA RAMP



ADA COORD. TABLE

PT. No.	N OR Y COORDINATE	E OR X COORDINATE	ELEVATION	STATION	DESCRIPTION
ADA100	1409089.909	813424.056	2915.99	100+23.28	TBC EX
ADA101	1409079.446	813444.408	2914.97	100+00.00	TBC EX
ADA102	1409086.658	813427.866	2915.53	100+18.27	TBC PT
ADA103	1409080.407	813440.262	2915.14	100+04.26	TBC PC
ADA104	1409108.950	813446.881	2915.00	100+04.26	RP TBC R=29.30 FT. [ABITRARY PROJ. ELEV. FOR FIELD USE]

GPK NAME: JOB970.GPK (FROM UPN 9706000, NH 5-3(151)93) CHAIN NAME: TBC_SOUTH PROFILE NAME: TBC_SOUTH

LEGEND

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

DETECTABLE WARNING DEVICES

NOTES:

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

ALL DIMENSIONS AND ELEVATIONS ARE FEET UNLESS OTHERWISE NOTED.

ALL CURB AND GUTTER DIMENSIONS ARE ALONG TBC.

CONTRACTOR VERIFY ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

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

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

CURB AND GUTTER STATIONS DO NOT CORRELATE WITH MAINLINE AS-BUILT STATIONING. AN ASSUMED STATION WAS USED FOR THE CURB & GUTTER.

LAKESIDE BLVD. & US-93 CURB RAMP DETAILS

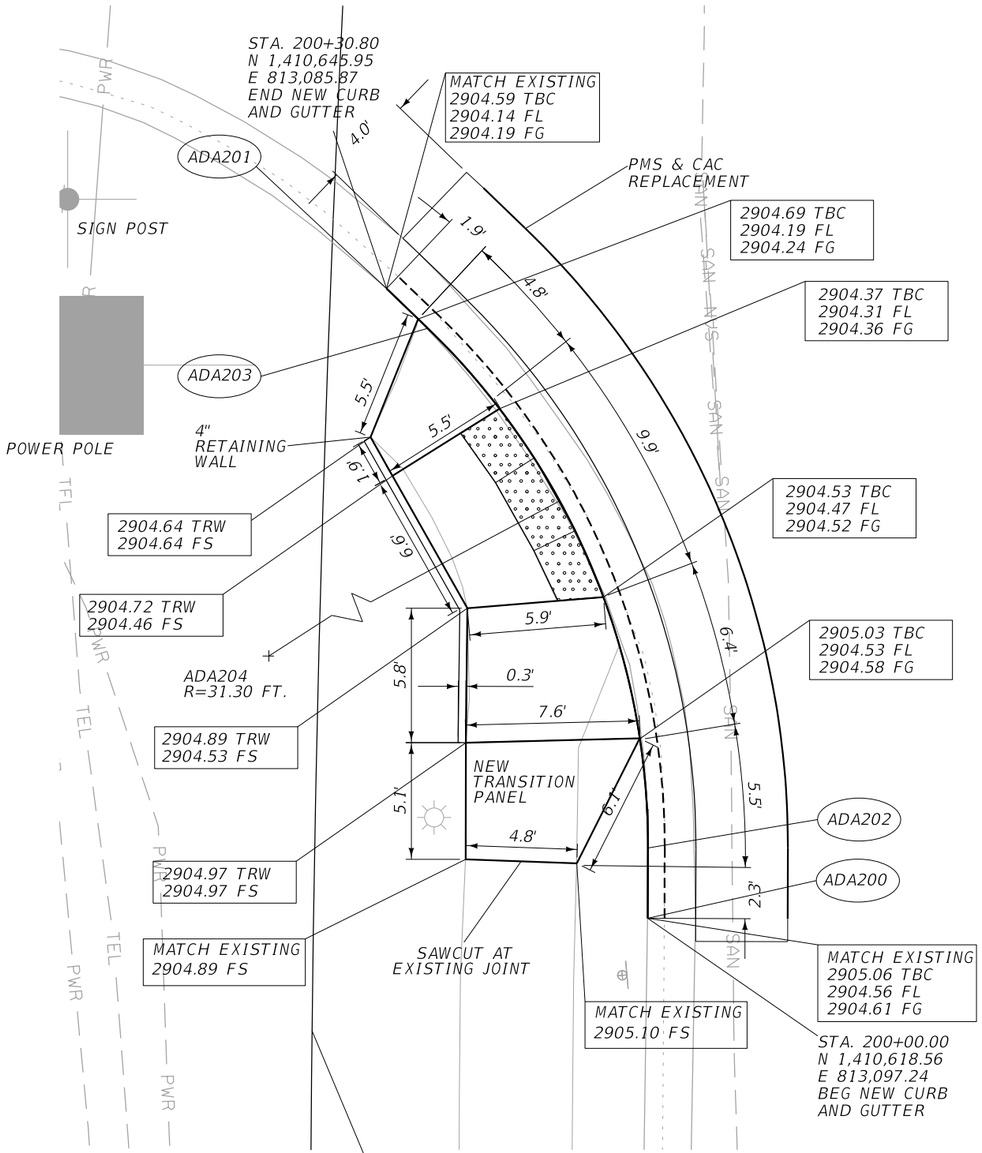
NO SCALE

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9706000rddet001.dgn	DESIGNED BY	KEVIN JUDGE	8/27/2020	ROAD PLANS	LAKESIDE N & S / NH 5-3(151)93
2		1/22/2021	REVIEWED BY			LAKE & FLATHEAD COUNTIES	UPN 9706000 / 13
		1:37:48 PM CPS - U3162	CHECKED BY				

AWARD COPY

Bierney Creek Rd.

BIERNEY CREEK RD & US-93 SW CORNER ADA RAMP



ADA COORD. TABLE

PT. No.	N OR Y COORDINATE	E OR X COORDINATE	ELEVATION	STATION	DESCRIPTION
ADA200	1410618.557	813097.238	2905.06	200+00.00	TBC EX
ADA201	1410645.950	813085.870	2904.59	200+30.80	TBC EX
ADA202	1410621.617	813097.246	2905.05	200+03.06	TBC PC
ADA203	1410644.220	813087.666	2904.58	200+28.29	TBC PT
ADA204	1410621.684	813065.946	2905.00	200+03.06	RP TBC R=31.30 FT. [ABITRARY PROJ. ELEV. FOR FIELD USE]
GPK NAME: JOB970.GPK (FROM UPN 9706000, NH 5-3(151)93) CHAIN NAME: TBC_NORTH PROFILE NAME: TBC_NORTH					

LEGEND

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

DETECTABLE WARNING DEVICES

NOTES:

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

ALL DIMENSIONS AND ELEVATIONS ARE FEET UNLESS OTHERWISE NOTED.

ALL CURB AND GUTTER DIMENSIONS ARE ALONG TBC.

CONTRACTOR VERIFY ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

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

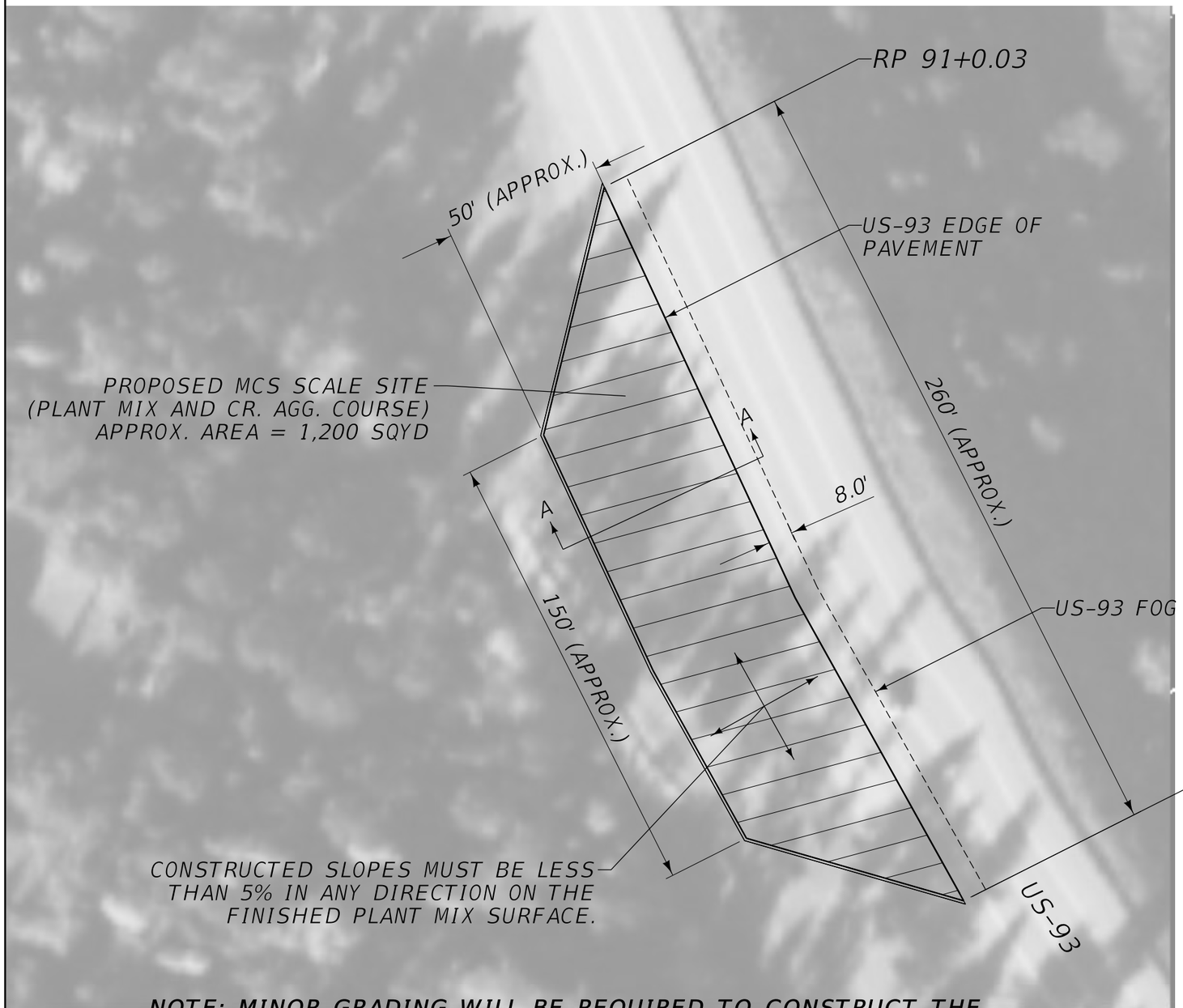
SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.

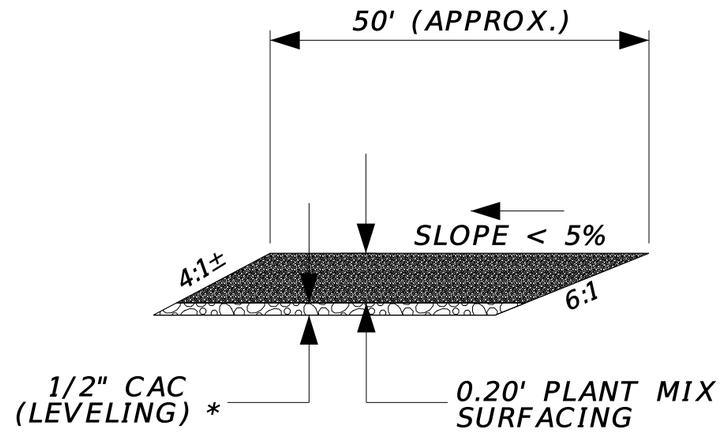
CURB AND GUTTER STATIONS DO NOT CORRELATE WITH MAINLINE AS-BUILT STATIONING. AN ASSUMED STATION WAS USED FOR THE CURB & GUTTER.

BIERNEY CREEK RD. & US-93 CURB RAMP DETAILS

NO SCALE

DETAIL





SECTION A-A

* USE CRUSHED AGGREGATE COURSE (CAC) AS NEEDED TO PROVIDE A LEVEL (<5% SLOPE), UNIFORM BASE AS DIRECTED BY THE PROJECT MANAGER.

NOTE: MINOR GRADING WILL BE REQUIRED TO CONSTRUCT THE FINISHED SURFACE OF THE PULLOUT FLUSH WITH THE US-93 EDGE OF PAVEMENT.

GRADE/SLOPE THE PULLOUT SO IT DRAINS AWAY FROM US-93, AT THE DISCRETION OF THE CONSTRUCTION PROJECT MANAGER. MAXIMIZE THE FINISHED AREA OF THE PULLOUT MEETING SITE CONSTRAINTS, WITHOUT EXTENDING BEYOND THE EDGE OF GRAVEL ON THE EXISTING PULLOUT.

PROPOSED GRAVEL & PLANT MIX FOR MCS SCALE SITE DETAIL

NO SCALE

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9706000rddet002.dgn	DESIGNED BY	KEVIN JUDGE	8/18/2020	ROAD PLANS	LAKESIDE N & S	NH 5-3(151)93
2		1/22/2021	REVIEWED BY					
		1:38:05 PM CPS - U3162	CHECKED BY			LAKE & FLATHEAD COUNTIES	UPN 9706000	15

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CRACK SEALING DETAIL

(NO SCALE)

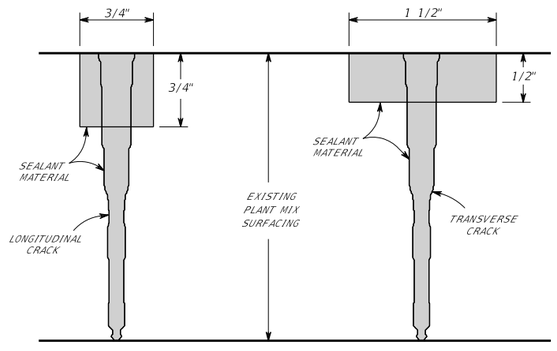
CRACKS 1/8" TO 1" WIDE

LONGITUDINAL CRACK

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

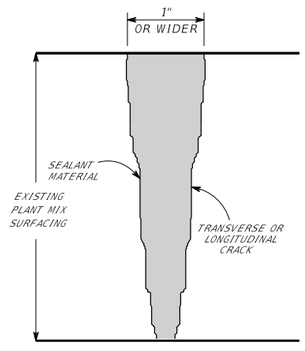
TRANSVERSE CRACK

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



CRACKS 1" OR WIDER
MASTIC REQUIRED

LEAVE EXISTING CRACK SEAL IN PLACE



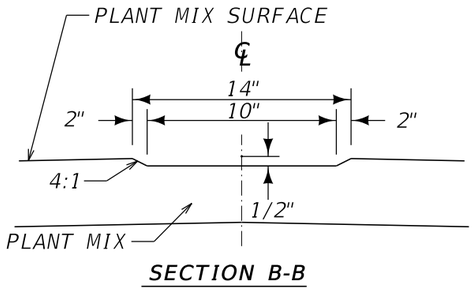
CRACK SEALING DETAIL

NO SCALE

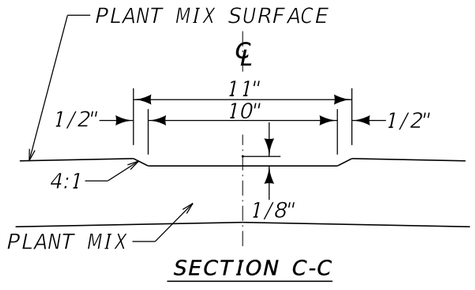
2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9706000rddet002.dgn	DESIGNED BY	KEVIN JUDGE	8/18/2020	ROAD PLANS	LAKESIDE N & S / NH 5-3(151)93
1		1/22/2021	REVIEWED BY			LAKE & FLATHEAD COUNTIES	UPN 9706000 / 16
		1:38:15 PM CPS - U3162	CHECKED BY				

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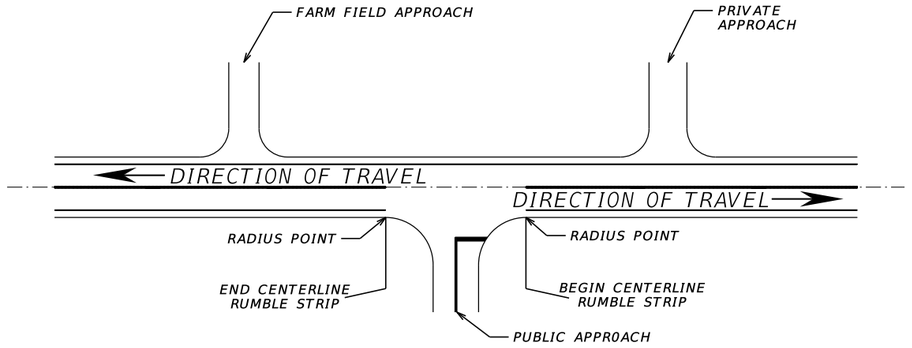
DETAIL



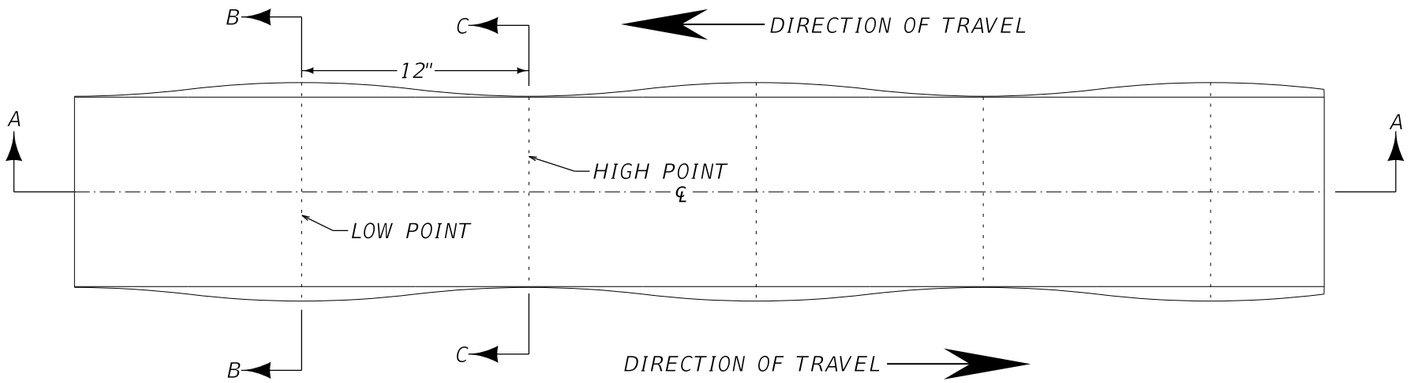
SECTION B-B



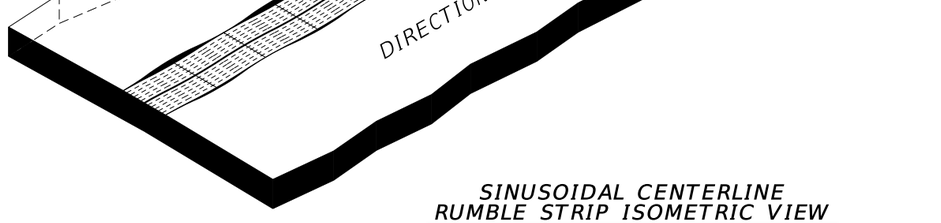
SECTION C-C



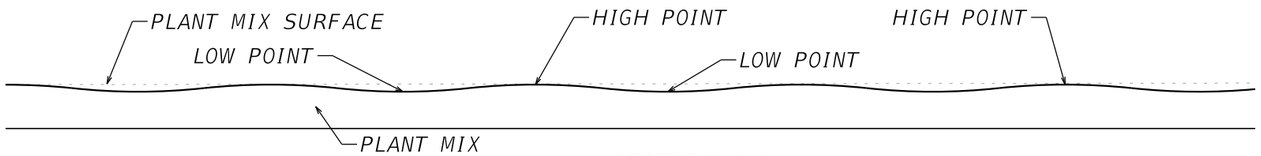
SINUSOIDAL CENTERLINE RUMBLE STRIP APPROACH DETAIL



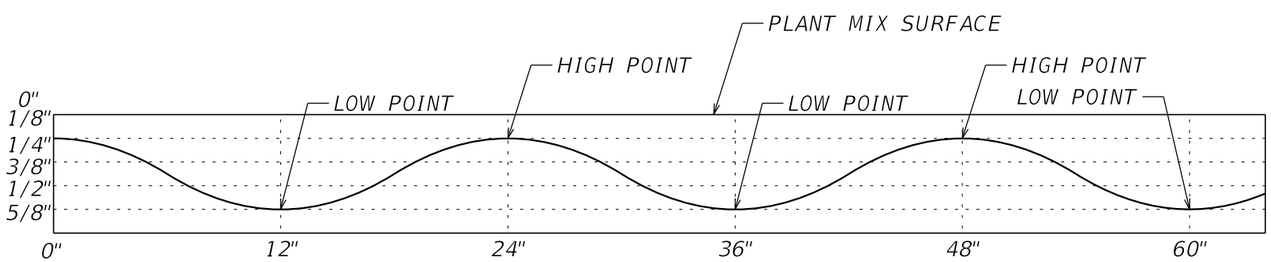
SINUSOIDAL CENTERLINE RUMBLE STRIP WITH TAPERED GROOVE PLAN VIEW



SINUSOIDAL CENTERLINE RUMBLE STRIP ISOMETRIC VIEW



SECTION A-A



SINUSOIDAL CENTERLINE RUMBLE STRIP PROFILE VIEW

EXAGGERATED VERTICAL SCALE 10:1

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.

MAXIMUM ±1/8" VERTICAL MILLING TOLERANCE ON INSTALLATION OF SINUSOIDAL CENTERLINE RUMBLE STRIP.

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

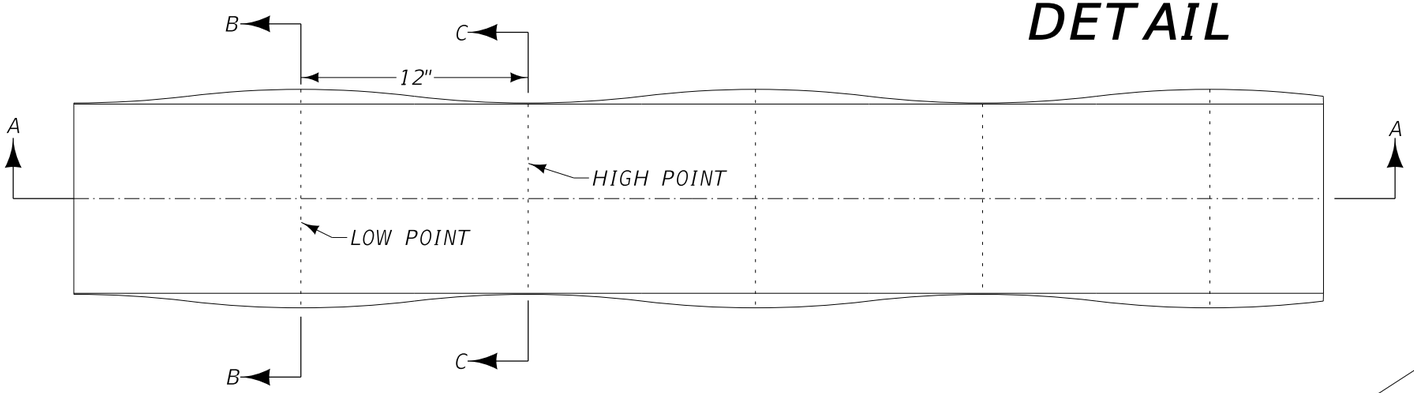
OMIT CENTERLINE RUMBLE STRIPES IN AREAS WHERE TWO WAY LEFT TURN LANES ARE PRESENT UNLESS SPECIFIED IN PROJECT PLANS AND/OR SPECIAL PROVISIONS. CENTERLINE RUMBLE STRIPES MAY BE INSTALLED THROUGH TWO WAY LEFT TURN LANES ON A CASE BY CASE BASIS AS A RESULT OF SAFETY ENGINEERING ANALYSIS DEMONSTRATING NEED.

SINUSOIDAL CENTERLINE RUMBLE STRIPS

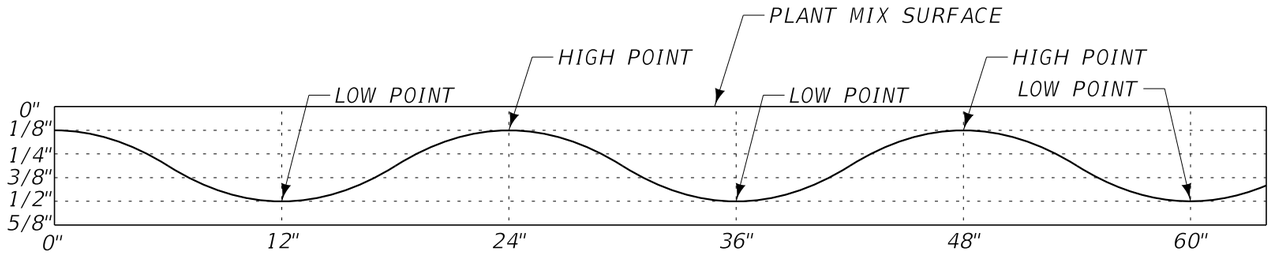
NO SCALE

AWARD COPY

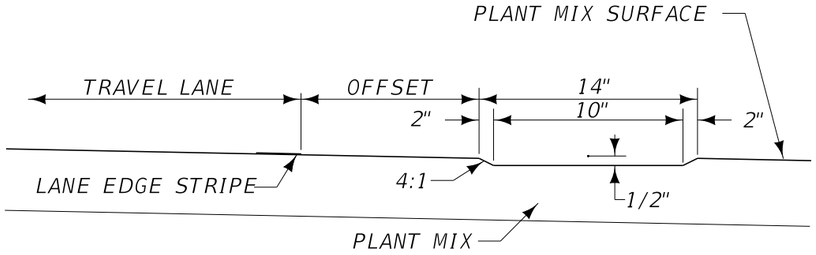
DETAIL



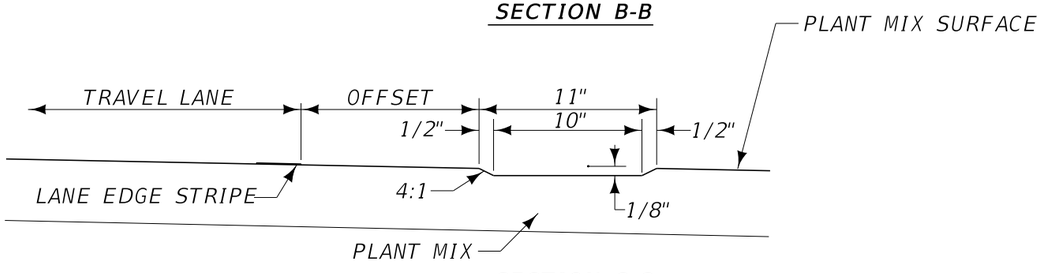
SINUSOIDAL SHOULER RUMBLE STRIP
WITH TAPERED GROOVE PLAN VIEW



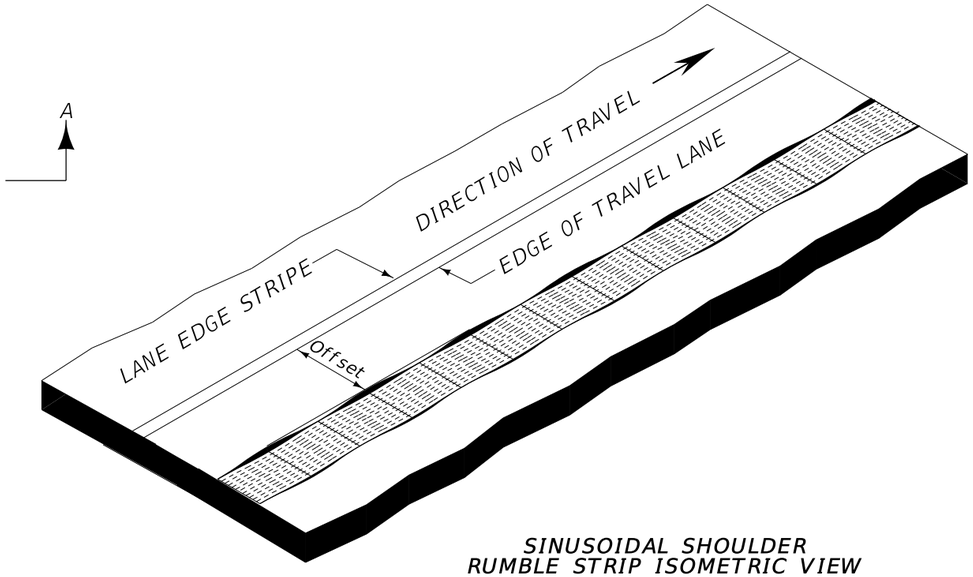
SECTION A-A



SECTION B-B



SECTION C-C



SINUSOIDAL SHOULDER
RUMBLE STRIP ISOMETRIC VIEW

STRIPE TO RUMBLE STRIP OFFSET
0"

NOTES:

SEE DETAIL DRAWING 411-02 FOR REQUIREMENTS FOR INTERMITTENT RUMBLE STRIP SPACING AND DISCONTINUING RUMBLE STRIPS AT PUBLIC APPROACHES, INTERSTATE RAMPS AND GUARDRAIL RUNS.

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

MAXIMUM ±1/8" VERTICAL MILLING TOLERANCE ON INSTALLATION OF SINUSOIDAL SHOULDER RUMBLE STRIP.

SINUSOIDAL SHOULDER RUMBLE STRIPS

NO SCALE

3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9706000rddet003.dgn	DESIGNED BY KEVIN JUDGE	9/22/2020	ROAD PLANS	LAKESIDE N & S	NH 5-3(151)93
		1/22/2021	REVIEWED BY				
		1:38:31 PM CPS - U3162	CHECKED BY		LAKE & FLATHEAD COUNTIES	UPN 9706000	18

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SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET IV	355.5	SQ. FOOT
SIGNS-ALUM REFL SHEET XI	1,832.8	SQ. FOOT
SIGNS-ALUM SHEET INCR IV	262.0	SQ. FOOT
SIGNS-ALUM SHEET INCR XI		SQ. FOOT
OVERLAY-SHEET ALUMINUM		SQ. FOOT
POSTS-STEEL U SIGN	223	POUNDS
POLES-TREATED WOOD 4 IN	1,642	LINEAR FT.
POLES-TREATED WOOD 5 IN	214	LINEAR FT.
POLES-TREATED TIMBER-CLASS 4		LINEAR FT.
POLES-TREATED TIMBER-CLASS 3		LINEAR FT.
POSTS-TUBULAR STEEL		POUNDS
POSTS-TUBULAR STEEL-SQ-PERF		POUNDS
POSTS-STEEL STRUCTURAL SIGN		POUNDS
OVERHEAD STR/METAL-CANTILEVER		EACH
OVERHEAD STR/METAL-BRIDGE		EACH
HIGHWAY TRAFFIC STRIPING-WHITE		GAL.(S)
HIGHWAY TRAFFIC STRIPING-YELLOW		GAL.(S)
WORDS & SYMBOLS		GAL.(S)
DELINEATOR DES A	380	EACH
DELINEATOR DES B		EACH
DELINEATOR DES C		EACH
DELINEATOR DES D	74	EACH
DELINEATOR DES E		EACH
DELINEATOR DES F		EACH
DELINEATOR DES G		EACH
DELINEATOR DES H		EACH
REMOVE SIGNS	148	EACH
REMOVE SIGNS-GUIDE	9	EACH
RESET SIGNS		EACH
RESET SIGNS-GUIDE		EACH
FRANG SIGN POST BKWY-		EACH
FRANG SIGN POST BKWY-		EACH
DELINEATOR-LINEAR-WHITE-W-BEAM	4,530	EACH
DELINEATOR-LINEAR-BARRIER-WHITE	84	EACH
SQ TUBLR SLIP BASE BKWY-3 IN		EACH

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SIGN LOCATION AND SPECIFICATIONS

MILE POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
92.039 Lt.		W11-3	30"x30"	XI		10-0		4" Dia. POLE	12-9			5-7	3-0	6.3 (XI)			14						1					
		W7-3a (30)	24"x18"	XI										3.0 (XI)															
92.043 Lt.		D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE	12-8			5-0	3-0	2.9 (IV) 2.9 (IV)			14						1					
		R1-1	30"x30"	XI	XI									5.2 (XI)															
92.000 Rt.		D10-2 (2) (92)	10"x18"	IV	IV	2-0		2 lb. STL-U	9-2			4-0	3-0	1.3 (IV) 1.3 (IV)								19	1						Behind Guardrail
92.089 Rt.		G5-92	9'-0x3'-0"	IV	IV	R.S.F.O.						7-0			27.0 (IV)										1				Behind Guardrail
92.154 Rt.		W11-3	30"x30"	XI		10-0		4" Dia. POLE	12-9			5-7	3-0	6.3 (XI)			14												New
		W7-3a (30)	24"x18"	XI										3.0 (XI)															New
92.438 Rt.		D3	REMOVE																				1						
92.448 Rt.		D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE	12-8			5-0	3-0	2.9 (IV) 2.9 (IV)			14												New
		R1-1	30"x30"	XI	XI									5.2 (XI)									1						Replace
92.483 Rt.		IS-92a	USE AS IS																										
		IS-92a	USE AS IS																										
93.050 Lt.		IS-92b	USE AS IS																										
		IS-92b	USE AS IS																										
92.638 Rt.		D3	REMOVE																				1						
92.648 Rt.		D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE	12-8			5-0	3-0	2.9 (IV) 2.9 (IV)			14												New
		R1-1	30"x30"	XI	XI									5.2 (XI)									1						Replace
92.726 Lt.		D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE	12-8			5-0	3-0	2.9 (IV) 2.9 (IV)			14						1						New
		R1-1	30"x30"	XI	XI									5.2 (XI)															
92.752 Rt.		G5-92b	9'-0"x3'-0"	IV	IV	R.S.F.O.						5-0			27.0 (IV)										1				
92.762 Rt.		R1-1	30"x30"	XI	XI	6-0		4" Dia. POLE	11-8			5-0	3-0	5.2 (XI)			12						1						
92.782 Rt.		IS12-92	6'-0"x2'-0"	IV	IV	R.S.F.O.						7-0			12.0 (IV)										1				
92.787 Rt.		W14-3	36"x48"x48"	XI		10-0		4" Dia. POLE	13-2			5-0	3-0	5.5 (XI)			14						1				FY		BBR
92.932 Rt.		D3 (2)	36"x18"	IV	IV	6-0		4" Dia. POLE	13-4			5-0	3-0	4.5 (IV) 4.5 (IV)			14												New
		R1-1	30"x30"	XI	XI									5.2 (XI)															New
92.935 Lt.		N7-1	36"x48"	IV	IV	10-0		5" Dia. Pole	16-5			7-0	3-6	12.0 (IV)				18				X	1						
92.970 Lt.		W14-3	36"x48"x48"	XI		2-0		4" Dia. POLE	11-6			5-0	3-0	5.5 (XI)			12						1				FY	Behind Guardrail	BBR
93.000 Rt.		D10-2 (2) (93)	10"x18"	IV	IV	2-0		2 lb. STL-U	9-2			4-0	3-0	1.3 (IV) 1.3 (IV)								19	1						Behind Guardrail
93.010 Lt.		D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE	12-8			5-0	3-0	2.9 (IV) 2.9 (IV)			14						1						REMOVE FROM R.P. 93.025
		R1-1	30"x30"	XI	XI									5.2 (XI)															

RSFO = REPLACE SIGN FACE ONLY

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

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

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

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9706000sisum001.dgn	Roger D Schroeder	10/2020	SIGNING PLANS	LAKESIDE - N & S / NH 5-3(151)93
2		1/22/2021			FLATHEAD COUNTY	UPN #9706000 / S2
1		1:38:44 PM CPS - U3162				

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SIGN LOCATION AND SPECIFICATIONS

MILE POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
93.051 Rt.		W8-11a	30"x30"	XI		10-0		4" Dia. POLE		15-4		7-0	3-0	6.3 (XI)										1					
93.151 Rt.		D4-3a	4'-0"x2'-6"	IV	IV	10-0		4" Dia. POLE		12-10		7-0	3-0		15.0 (IV)									1					CELL PHONE PULL OUT 1/4 MILE
93.309 Lt.		By Others	USE AS IS																										GLACIER CAMP 1/4 Mi.
93.339 Lt.		M3-3	24"x12"	XI		10-0		4" Dia. POLE		12-8		5-0	3-0	2.0 (XI)										1					SOUTH
		M1-4.2	24"x24"	XI										4.0 (XI)															93
93.348 Rt.		D3 (2)	36"x18"	IV	IV	6-0		4" Dia. POLE		13-4		5-0	3-0	4.5 (IV) 4.5 (IV)										1					PRESBYTERIAN CAMP →
		R1-1	30"x30"	XI	XI									5.2 (XI)															STOP
93.525 Rt.		N6-3	42"x24"	IV	IV	2-0		4" Dia. POLE		12-8		7-0	3-0	7.0 (IV)											1				Behind Guardrail FLATHEAD COUNTY
93.525 Lt.		N6-3	42"x24"	IV	IV	2-0		4" Dia. POLE		12-8		7-0	3-0	7.0 (IV)															Behind Guardrail LAKE COUNTY New
93.842 Lt.		W8-11a	30"x30"	XI	XI	10-0		4" Dia. POLE		15-4		7-0	3-0	6.3 (XI)										1					
93.899 Rt.		M3-1	24"x12"	XI	XI	2-0		4" Dia. POLE		11-10		5-0	3-0	2.0 (XI)										1					Behind Guardrail NORTH
		M1-4.2	24"x24"	XI	XI									4.0 (XI)															93
94.000 Rt.		D10-2 (2) (94)	10"x18"	IV	IV	2-0		2 lb. STL-U		9-2		4-0	3-0	1.3 (IV) 1.3 (IV)								19		1					Behind Guardrail 46 MILE 94
94.004 Rt.		W11-3	30"x30"	XI		2-0		4" Dia. POLE		12-9		5-7	3-0	6.3 (XI)										1				FY	Behind Guardrail
		W7-3a	24"x18"	XI										3.0 (XI)														FY	NEXT 10 MILES
94.245 Lt.		D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE		12-8		5-0	3-0	2.9 (IV) 2.9 (IV)										1					TIMBER RACE →
		R1-1	30"x30"	XI	XI									5.2 (XI)															STOP
94.425 Lt.		W14-3	30"x40"x40"	XI		10-0		4" Dia. POLE		12-4		5-0	3-0	5.5 (XI)										1				FY	NO PASSING ZONE BBR
94.482 Rt.		G5-94a	11'-0"x3'-0"	IV	IV	10-0	6-6	4" Dia. POLE		x=13-9 y=14-6		7-0	3-0		33.0 (IV)									14 16		1			LUTHERAN CAMP RD 700 FEET
94.617 Rt.		D3 (2)	36"x18"	IV	IV	6-0		4" Dia. POLE		13-4		5-0	3-0	4.5 (IV) 4.5 (IV)										1					LUTHERAN CAMP →
		R1-1	30"x30"	XI	XI									5.2 (XI)															STOP
94.649 Lt.		G5-94b	8'-0"x3'-0"	IV	IV	R.S.F.O.						7-0			24.0 (IV)										1				LUTHERAN CAMP ← ROAD
94.729 Lt.		W2-2R	30"x30"	XI		10-0		4" Dia. POLE		13-1		5-0	3-0	6.3 (XI)										1				FY	
94.966 Rt.		W1-2L	30"x30"	XI		10-0		4" Dia. POLE		13-4		5-0	3-0	6.3 (XI)										1				FY	
94.993 Lt.		N7-1	36"x48"	IV	IV	2-0		5" Dia. POLE		16-0		7-0	3-6	12.0 (IV)				16					X	1					Adopt A Highway Litter Control Near 9 Miles FLATHEAD LUTHERAN CAMP
		N7-1p	36"x12"	IV	IV									3.0 (IV)															
95.001 Rt.		N7-1	36"x48"	IV	IV	10-0		5" Dia. Pole		16-5		7-0	3-6	12.0 (IV)				18					X	1					Adopt A Highway Litter Control Near 9 Miles
95.000 Rt.		D10-2 (2) (95)	10"x18"	IV	IV	4-0		2 lb. STL-U		9-11		4-0	3-0	1.3 (IV) 1.3 (IV)								20		1					STG MILE 95
95.090 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE		12-4		5-0	3-0	5.0 (XI) 5.0 (XI)										1				FY	
95.125 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE		12-4		5-0	3-0	5.0 (XI) 5.0 (XI)										1				FY	

RSFO = REPLACE SIGN FACE ONLY

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

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

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9706000sisum001.dgn	Roger D Schroeder	10/2020	SIGNING PLANS	LAKESIDE - N & S / NH 5-3(151)93
2		1/22/2021				UPN #9706000 / S3
1		1:38:48 PM CPS - U3162			FLATHEAD COUNTY	

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

MILE POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
95.165 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE		12-4		5-0	3-0	5.0 (XI) 5.0 (XI)			14							1				FY	
95.200 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE		12-4		5-0	3-0	5.0 (XI) 5.0 (XI)			14							1				FY	
95.235 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE		12-4		5-0	3-0	5.0 (XI) 5.0 (XI)			14							1				FY	
95.275 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE		12-4		5-0	3-0	5.0 (XI) 5.0 (XI)			14							1				FY	
95.297 Lt.		AL Cross	USE AS IS																										
95.310 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE		12-4		5-0	3-0	5.0 (XI) 5.0 (XI)			14							1				FY	
95.311 Rt.		AL Cross	USE AS IS																										
95.350 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE		12-4		5-0	3-0	5.0 (XI) 5.0 (XI)			14							1				FY	
95.389 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE		12-4		5-0	3-0	5.0 (XI) 5.0 (XI)			14							1				FY	
95.424 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE		12-4		5-0	3-0	5.0 (XI) 5.0 (XI)			14							1				FY	
95.431 Lt.		W1-2R	30"x30"	XI		2-0		4" Dia. POLE		12-8		5-0	3-0	6.3 (XI)			14							1				FY	Behind Guardrail
95.436 Lt.		W8-11a	30"x30"	XI	XI	2-0		4" Dia. POLE		14-10		7-0	3-0	6.3 (XI)			16							1					Behind Guardrail
95.569 Rt.		W14-3	36"x48"x48"	XI		2-0		4" Dia. POLE		11-6		5-0	3-0	5.5 (XI)			12							1				FY	Behind Guardrail; BBR
95.675 Lt.		W14-3	36"x48"x48"	XI		2-0		4" Dia. POLE		11-6		5-0	3-0	5.5 (XI)			12							1				FY	Behind Guardrail; BBR
95.740 Lt.		R1-1	30"x30"	XI	XI	6-0		4" Dia. POLE		12-8		5-0	3-0	5.2 (XI)			14							1					
96.000 Rt.		D10-2 (2) (96)	10"x18"	IV	IV	4-0		2 lb. STL-U		9-11		4-0	3-0	1.3 (IV) 1.3 (IV)									20	1					
96.034 Lt.		D3 (2)	30"x18"	IV	IV	6-0		4" Dia. POLE		13-4		5-0	3-0	3.8 (IV) 3.8 (IV)			14							1					REMOVE FROM R.P. 96.044
		R1-1	30"x30"	XI	XI									5.2 (XI)															New
96.097 Rt.		W2-2R	30"x30"	XI		10-0		4" Dia. POLE		13-4		5-0	3-0	6.3 (XI)			14							1				FY	
96.137 Rt.		W14-3	36"x48"x48"	XI		10-0		4" Dia. POLE		12-4		5-0	3-0	5.5 (XI)			14							1				FY	
96.202 Rt.		D3	REMOVE																					1					Angel Point Rd
96.237 Rt.		D3 (2)	30"x18"	IV	IV	6-0		4" Dia. POLE		12-8		5-0	3-0	3.8 (IV) 3.8 (IV)			14												New
		R1-1	30"x30"	XI	XI									5.2 (XI)										1					Replace
96.312 Rt.		D3 (2)	30"x18"	IV	IV	6-0		4" Dia. POLE		12-8		5-0	3-0	3.8 (IV) 3.8 (IV)			14												Replace
		R1-1	30"x30"	XI	XI									5.2 (XI)										1					Replace
96.313 Lt.		D3-1L	4'-0"x1'-6"	IV	IV	6-0		4" Dia. POLE		11-8		5-0	3-0	6.0 (IV)			12							1					
96.448 Lt.		W2-2L	30"x30"	XI		10-0		4" Dia. POLE		13-1		5-0	3-0	6.3 (XI)			14							1				FY	
96.627 Lt.		R1-1	30"x30"	XI	XI	R.S.F.O.						5-0		5.2 (XI)										1					
96.791 Lt.		W14-3	36"x48"x48"	XI		2-0		4" Dia. POLE		12-4		5-0	3-0	5.5 (XI)			14							1				FY	Behind Guardrail; BBR
96.865 Rt.		W8-11a	30"x30"	XI		2-0		4" Dia. POLE		14-6		7-0	3-0	6.3 (XI)			16							1					Behind Guardrail

RSFO = REPLACE SIGN FACE ONLY

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

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

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

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9706000sisum002.dgn		Roger D Schroeder	10/2020	SIGNING PLANS		LAKESIDE - N & S		NH 5-3(151)93
2		1/22/2021				FLATHEAD COUNTY			UPN #9706000	S4
1		1:38:58 PM CPS - U3162								

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

MILE POST	LOCATION	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
96.896	Lt.	N7-1	36"x48"	IV	IV	2-0		5" Dia. Pole	15-8			7-0	3-6	12.0 (IV)			16						X	1					Behind Guardrail
96.990	Rt.	IS12-96a	10'-0"x3'-0"	IV	IV	15-0	6-0	5" Dia. Pole	13-4 14-4			5-0	3-6		30.0 (IV)		14 16						X			1			
		IS12-96b	10'-0"x2'-6"	IV	IV										25.0 (IV)														
96.995	Rt.	W3-5 (55)	36"x36"	XI	XI	10-0		4" Dia. POLE	14-0			5-0	3-0	9.0 (XI)			14							1					
97.000	Rt.	D10-2 (2) (97)	10"x18"	IV	IV	4-0		2 lb. STL-U	9-11			4-0	3-0	1.3 (IV) 1.3 (IV)								20		1					
97.041	Lt.	W11-3	30"x30"	XI		10-0		4" Dia. POLE	12-9			5-7	3-0	6.3 (XI)			14												New
		W7-3a (30)	24"x18"	XI										3.0 (XI)															New
97.110	Lt.	R2-6 (60)	24"x30"	XI		10-0		4" Dia. POLE	12-5			5-0	3-0	5.0 (XI)			14							1					
		R2-3a	REMOVE																										
97.130	Lt.	R2-1 (70)	24"x30"	XI		10-0		4" Dia. POLE	12-5			5-0	3-0	5.0 (XI)			14							1					
		R2-3b	REMOVE																										
97.149	Rt.	R2-1 (55)	24"x30"	XI		10-0		4" Dia. POLE	12-4			5-0	3-0	5-0 (XI)			14							1					
97.184	Rt.	R5-11	REMOVE																					1					
97.194	Rt.	AL Cross	USE AS IS																										
97.299	Rt.	W2-2R	30"x30"	XI		10-0		4" Dia. POLE	13-4			5-0	3-0	6.3 (XI)			14							1				FY	
		W16-8	36"x8"	XI										2.0 (XI)														FY	
97.384	Rt.	W3-5 (45)	36"x36"	XI	XI	10-0		4" Dia. POLE	14-0			5-0	3-0	9.0 (XI)			14							1				FY	
97.434	Rt.	D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE	12-8			5-0	3-0	2.9 (IV) 2.9 (IV)			14							1					
		R1-1	30"x30"	XI	XI									5.2 (XI)															
97.474	Lt.	W8-11a	30"x30"	XI	XI	2-0		4" Dia. POLE	14-2			7-0	3-0	6.3 (XI)			16							1					Behind Guardrail
97.534	Lt.	W2-2L	30"x30"	XI		2-0		4" Dia. POLE	12-8			5-0	3-0	6.3 (XI)			14							1				FY	Behind Guardrail
		W16-8	36"x8"	XI										2.0 (XI)														FY	
97.628	Lt.	R2-1 (55)	24"x30"	XI		5-0		4" Dia. POLE	11-6			5-0	3-0	5.0 (XI)			12							1					Behind Guardrail
97.643	Rt.	R2-1 (45)	24"x30"	XI		5-0		4" Dia. POLE	12-4			5-0	3-0	5.0 (XI)			12							1					Behind Guardrail
97.758	Rt.	W16-8bL	36"x8"	XI		10-0		4" Dia. POLE	10-9			5-0	3-0	2.0 (XI)			12												NEW
97.758	Lt.	D3 (2)	36"x10"	IV	IV	6-0		4" Dia. POLE	12-8			5-0	3-0	2.5 (IV) 2.5 (IV)			14							1					
		R1-1	30"x30"	XI	XI									5.2 (XI)															
97.778	Rt.	GS9-97a	8'-0"x1'-0"	IV	IV	10-0	4-10	5" Dia. POLE	x=14-3 y=15-0			7-0			8.0 (IV)		16 16						X		1				
		GS9-97b	8'-0"x2'-0"	IV	IV										16.0 (IV)														
97.783	Lt.	R2-1 (45)	24"x30"	XI		10-0		4" Dia. POLE	12-6			7-0	3-0	5-0 (XI)			14							1					
97.792	Rt.	R2-1 (35)	36"x48"	XI		R.S.F.O.								12.0 (XI)										1					
		R2-6p	30"x6"	XI		R.S.F.O.								1.3 (XI)															

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3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9706000sisum002.dgn		Roger D Schroeder	10/2020	SIGNING PLANS	LAKESIDE - N & S	NH 5-3(151)93
2		1/22/2021				FLATHEAD COUNTY	UPN #9706000	S5
1		1:39:01 PM CPS - U3162						

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

MILE POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
97.795 Lt.		R3-7	30"x30"	XI		10-0		4" Dia. POLE		12-8		5-0	3-0	6.3 (XI)			14							1					
97.802 Lt.		R7-1	12"x18"	XI	XI	10-0		2" Sq. TUBE		9-9		5-0	3-0	1.5 (XI)						42.0			▲	1					
97.808 Lt.		W16-8bR	36"x8"	XI		10-0		4" Dia. POLE		10-9		5-0	3-0	2.0 (XI)			12											NEW	BLACKTAIL RD
97.817 Rt.		S1-1	36"x36"	XI		10-0		5" Dia. POLE		15-5		7-0	3-6	6.8 (XI)				16					X	1			FYG		
		S1-1Sp	36"x12"	XI										3.0 (XI)													FYG		750 FT
97.827 Rt.		R3-9b	24"x36"	XI		10-0		4" Dia. POLE		12-6		7-0	3-0	6.0 (XI)			14							1					CENTER LANE ONLY
		R8-3	24"x30"	XI										5.0 (XI)															NO PARKING
97.842 Lt.		D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE		13-5		7-0	3-0	2.9 (IV) 2.9 (IV)			14							1					STONER CRK RD
		R1-1	30"x30"	XI	XI									5.2 (XI)															STOP
97.842 Lt.		IS12-97a	10'-0"x3'-0"	IV	IV	R.S.F.O.						5-0			30.0 (IV)										1				BLACKTAIL MTN SKI AREA OPEN - SKI SEASON
		IS12-97b	10'-0"x1'-6"	IV	IV	R.S.F.O.									15.0 (IV)														
97.862 Rt.		R8-3	24"x30"	XI		10-0		4" Dia. POLE		12-0		7-0	3-0	5.0 (XI)			12							1					NO PARKING
98.000 Rt.		D10-2 (2) (98)	10"x18"	IV	IV	4-0		2 lb. STL-U		9-11		4-0	3-0	1.3 (IV) 1.3 (IV)								20		1					98 98
97.892 Rt.		N7-1	36"x48"	IV	IV	10-0		5" Dia. POLE		16-6		7-0	3-6	12.0 (IV)				18					X	1					Adopt A Highway Litter Control Near R. Miles COMPLETE RESTORATION
		N7-1p	36"x12"	IV	IV									3.0 (IV)															
97.935 Lt.		R9-3a	18"x18"	XI	XI	10-0		4" Dia. POLE		13-1		7-0	3-0	2.3 (XI)			14							1					
		R9-3b	18"x12"	XI	XI									1.5 (XI)															USE CROSSWALK
97.937 Lt.		D3 (2)	30"x10"	IV	IV	6-0		4" Dia. POLE		13-5		7-0	3-0	2.1 (IV) 2.1 (IV)			14							1					ADAMS ST
		R1-1	30"x30"	XI	XI									5.2 (XI)															STOP
97.947 Lt.		S1-1	36"x36"	XI		R.S.F.O.						5-7		6.8 (XI)										1			FYG		
		W16-7pL	24"x12"	XI		R.S.F.O.								2.0 (XI)													FYG		
97.955 Rt.		S1-1	36"x36"	XI		R.S.F.O.						5-7		6.8 (XI)										1			FYG		
		W16-7pL	24"x12"	XI		R.S.F.O.								2.0 (XI)													FYG		
97.957 Rt.		D3 (2)	36"x10"	IV	IV	6-0		2 1/2" Sq. TUBE		13-4		7-0	3-0	2.5 (IV) 2.5 (IV)						64.7				1					LAKESIDE N ADAMS ST
		D3 (2)	30"x10"	IV	IV									2.1 (IV) 2.1 (IV)															STOP
		R1-1	36"x36"	XI	XI									7.5 (XI)															
98.077 Lt.		S1-1	36"x36"	XI		10-0		5" Dia. POLE		15-5		7-1	3-6	6.8 (XI)				16					X	1			FYG		
		S1-1Sp	36"x12"	XI										3.0 (XI)													FYG		750 FT
98.107 Lt.		D3 (2)	30"x10"	IV	IV	6-0		4" Dia. POLE		12-8		5-0	3-0	2.1 (IV) 2.1 (IV)			14							1					REMOVE FROM R.P. 98.116 BILLS RD
		R1-1	30"x30"	XI	XI									5.2 (XI)															STOP

RSFO = REPLACE SIGN FACE ONLY

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

TYPE XI

FYG = FLUORESCENT YELLOW-GREEN SHEETING REQUIRED.

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

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

MILE POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
98.191 Rt.		W11-12	36"x36"	XI		2-0		4" Dia. POLE		13-4		5-7	3-0	9.0 (XI)			14						1				FY	Behind Guardrail
		W16-2 (300)	24"x18"	XI										3.0 (XI)													FY	
98.221 Lt.		R3-9b	24"x36"	XI		2-0		4" Dia. POLE		13-0		7-0	3-0	6.0 (XI)									1					
98.226 Rt.		R7-1	12"x18"	XI	XI	10-0		2" Sq. TUBE		9-9		5-0	3-0	1.5 (XI)						42.0			▲ 1					
98.231 Rt.		R7-1	12"x18"	XI	XI	10-0		2" Sq. TUBE		9-9		5-0	3-0	1.5 (XI)						42.0			▲ 1					
98.236 Rt.		R7-1	12"x18"	XI	XI	10-0		2" Sq. TUBE		9-9		5-0	3-0	1.5 (XI)						42.0			▲ 1					
98.236 Lt.		R7-1	12"x18"	XI	XI	10-0		2" Sq. TUBE		9-9		5-0	3-0	1.5 (XI)						42.0			▲ 1					
98.241 Rt.		R7-1	12"x18"	XI	XI	10-0		2" Sq. TUBE		9-9		5-0	3-0	1.5 (XI)						42.0			▲ 1					
98.246 Rt.		R7-1	12"x18"	XI	XI	10-0		2" Sq. TUBE		9-9		5-0	3-0	1.5 (XI)						42.0			▲ 1					
98.246 Lt.		D3 (2)	42"x10"	IV	IV	6-0		2 ½" Sq. TUBE		12-7		5-0	3-0	2.9 (IV) 2.9 (IV)						57.8			1					BIERNEY CRK RD STOP
		R1-1	30"x30"	XI	XI									5.2 (XI)														
98.254 Rt.		W11-2	36"x36"	XI		10-0		5" Dia. POLE		15-2		5-7	3-6	9.0 (XI)			14					X	1				FY	
		W16-7pL	30"x18"	XI										3.8 (XI)													FY	
98.261 Lt.		W11-2	36"x36"	XI		10-0		5" Dia. POLE		15-2		5-7	3-6	9.0 (XI)			14					X	1				FY	
		W16-7pR	30"x18"	XI										3.8 (XI)													FY	
98.276 Rt.		R7-1	12"x18"	XI	XI	10-0		2" Sq. TUBE		9-9		5-0	3-0	1.5 (XI)						42.0			▲ 1					
98.276 Lt.		R8-1a	24"x30"	XI		10-0		4" Dia. POLE		12-9		5-0	3-0	5.0 (XI)			14						1					
98.281 Rt.		R7-1	12"x18"	XI	XI	10-0		2" Sq. TUBE		9-9		5-0	3-0	1.5 (XI)						42.0			▲ 1					
98.285 Lt.		R2-1 (35)	36"x48"	XI		R.S.F.O.								12.0 (XI)									1					SPEED LIMIT 35 YOUR SPEED
		R2-6p	30"x6"	XI		R.S.F.O.								1.3 (XI)														
98.296 Rt.		R2-1 (45)	24"x30"	XI		10-0		4" Dia. POLE		12-4		5-0	3-0	5.0 (XI)			14						1					SPEED LIMIT 45
97.336 Rt.		D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE		12-8		5-0	3-0	2.9 (IV) 2.9 (IV)			14						1					LAKESIDE BLVD STOP
		R1-1	30"x30"	XI	XI									5.2 (XI)														
98.301 Lt.		W11-2	30"x30"	XI		10-0		4" Dia. POLE		14-0		5-7	3-0	6.3 (XI)			14						1				FY	
		W16-2a	24"x18"	XI										3.0 (XI)													FY	
98.356 Lt.		W2-2R	30"x30"	XI		10-0		4" Dia. POLE		13-1		5-0	3-0	6.3 (XI)			14						1				FY	
98.420 Lt.		D3 (2)	30"x10"	IV	IV	6-0		4" Dia. POLE		12-8		5-0	3-0	2.1 (IV) 2.1 (IV)			14						1					REPLACE CRAVEN ST STOP
		R1-1	30"x30"	XI	XI									5.2 (XI)														New
98.510 Rt.		D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE		12-8		5-0	3-0	2.9 (IV) 2.9 (IV)			14						1					REPLACE LARCHWOOD LN STOP
		R1-1	30"x30"	XI	XI									5.2 (XI)														New
98.510 Lt.		R8-1a	24"x30"	XI		10-0		4" Dia. POLE		12-4		5-0	3-0	5.0 (XI)			14						1					

RSFO = REPLACE SIGN FACE ONLY

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

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

FYG = TYPE XI FLUORESCENT YELLOW-GREEN SHEETING REQUIRED.

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

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

MILE POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
98.530 Lt.		R2-1 (45)	24"x30"	XI		10-0		4" Dia. POLE		11-10		5-0	3-0	5.0 (XI)									1					
98.540 Rt.		R2-1 (55)	24"x30"	XI		10-0		4" Dia. POLE		11-10		5-0	3-0	5.0 (XI)									1					
98.754 Lt.		W3-5 (45)	36"x36"	XI	XI	10-0		4" Dia. POLE		13-4		5-0	3-0	9.0 (XI)									1				FY	
98.799 Lt.		N6-1	36"x12"	IV	IV	10-0		4" Dia. POLE		11-0		5-0	3-0	3.5 (IV)									1					
98.820 Rt.		W11-3	30"x30"	XI		10-0		4" Dia. POLE		15-0		5-7	3-0	6.3 (XI)														New
		W7-3a (30)	24"x18"	XI										3.0 (XI)														New
98.834 Lt.		R5-11	REMOVE											7.5 (XI)									1					
98.899 Rt.		R1-1	30"x30"	XI	XI	6-0		4" Dia. POLE		11-9		5-0	3-0	5.2 (XI)									1					
98.953 Lt.		AL Cross	USE AS IS																									
99.000 Rt.		D10-2 (2) (99)	10"x18"	IV	IV	4-0		2 lb. STL-U		9-11		4-0	3-0	1.3 (IV) 1.3 (IV)								20	1					
99.049 Rt.		D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE		12-8		5-0	3-0	2.9 (IV) 2.9 (IV)									1					
		R1-1	30"x30"	XI	XI									5.2 (XI)														
99.138 Lt.		W1-2L	30"x30"	XI		10-0		4" Dia. POLE		13-4		5-0	3-0	6.3 (XI)									1				FY	
99.143 Rt.		W16-8aL	36"x8"	XI		10-0		4" Dia. POLE		10-9		5-0	3-0	2.0 (XI)														NEW
99.183 Lt.		D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE		12-8		5-0	3-0	2.9 (IV) 2.9 (IV)									1					
		R1-1	30"x30"	XI	XI									5.2 (XI)														
99.208 Rt.		W2-2R	30"x30"	XI		2-0		4" Dia. POLE		13-0		5-0	3-0	6.3 (XI)									1				FY	Behind Guardrail
99.223 Rt.		AL Cross	USE AS IS																									
99.248 Lt.		W16-8aR	36"x8"	XI		10-0		4" Dia. POLE		10-9		5-0	3-0	2.0 (XI)														NEW
99.308 Rt.		D3 (2)	36"x18"	IV	IV	6-0		4" Dia. POLE		13-4		5-0	3-0	4.5 (IV) 4.5 (IV)									1					REMOVE FROM R.P. 99.293
		R1-1	30"x30"	XI	XI									5.2 (XI)														
99.312 Lt.		S3-1a	36"x36"	XI	XI	10-0		4" Dia. POLE		14-0		5-0	3-0	9.0 (XI)									1				FYG	
99.362 Lt.		W2-2R	30"x30"	XI		10-0		4" Dia. POLE		13-4		5-0	3-0	6.3 (XI)									1				FY	
99.432 Lt.		W2-2L	30"x30"	XI		10-0		4" Dia. POLE		13-4		5-0	3-0	6.3 (XI)									1				FY	
99.472 Rt.		D3 (2)	30"x18"	IV	IV	6-0		4" Dia. POLE		13-4		5-0	3-0	3.8 (IV) 3.8 (IV)									1					REMOVE FROM R.P. 99.462
		R1-1	30"x30"	XI	XI									5.2 (XI)														
99.910 Rt.		D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE		12-8		5-0	3-0	2.9 (IV) 2.9 (IV)									1					
		R1-1	30"x30"	XI	XI									5.2 (XI)														
99.940 Lt.		W2-2L	30"x30"	XI		2-0		4" Dia. POLE		12-8		5-0	3-0	6.3 (XI)									1				FY	Behind Guardrail
99.990 Lt.		S3-1a	36"x36"	XI	XI	10-0		4" Dia. POLE		14-0		5-0	3-0	9.0 (XI)									1				FYG	

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FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

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

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

MILE POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
100.006 Rt.		W16-8cL	36"x8"	XI		2-0		4" Dia. POLE	10-2			5-0	3-0	2.0 (XI)			12												NEW DEER CRK RD Behind Guardrail
100.020 Lt.		N7-1	36"x48"	IV	IV	10-0		5" Dia. POLE	16-6			7-0	3-6	12.0 (IV)				18					X	1					Adopt A Highway Litter Control Near 3-Miles COMITE RESISTANCE
		N7-1p	36"x12"	IV	IV									3.0 (IV)															
100.000 Rt.		D10-3 (2) (100)	10"x36"	IV	IV	4-0		2 lb. STL-U	10-8			4-0	3-0	2.5 (IV) 2.5 (IV)								22		1					001 MILE 100
100.049 Lt.		D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE	12-8			5-0	3-0	2.9 (IV) 2.9 (IV)			14							1					REMOVE FROM R.P. 100.047 DEER CRK RD STOP
		R1-1	30"x30"	XI	XI									5.2 (XI)															
100.051 Rt.		N7-1	36"x48"	IV	IV	2-0		5" Dia. POLE	16-0			7-0	3-6	12.0 (IV)				16					X	1					Behind Guardrail Adopt A Highway Litter Control Near 5-Miles MISSOULA LEGION #37
		N7-1p	36"x12"	IV	IV									3.0 (IV)															
100.114 Lt.		W16-8cR	36"x8"	XI		10-0		4" Dia. POLE	10-9			5-0	3-0	2.0 (XI)			12												NEW DEER CRK RD
100.493 Lt.		R2-1 (55)	24"x30"	XI		10-0		4" Dia. POLE	12-4			5-0	3-0	5.0 (XI)			14							1					SPEED LIMIT 55
100.499 Rt.		R2-1 (55)	24"x30"	XI		10-0		4" Dia. POLE	12-4			5-0	3-0	5.0 (XI)			14							1					SPEED LIMIT 55
100.544 Rt.		D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE	12-8			5-0	3-0	2.9 (IV) 2.9 (IV)			14							1					REMOVE FROM R.P. 100.525 MARCO BAY RD STOP
		R1-1	30"x30"	XI	XI									5.2 (XI)															ADJUST to 10' Clearance
100.707 Lt.		D3 (2)	30"x10"	IV	IV	6-0		4" Dia. POLE	12-8			5-0	3-0	2.1 (IV) 2.1 (IV)			14							1					ELIAS LN STOP
		R1-1	30"x30"	XI	XI									5.2 (XI)															NEW
100.848 Rt.		D3 (2)	30"x10"	IV	IV	6-0		4" Dia. POLE	12-8			5-0	3-0	2.1 (IV) 2.1 (IV)			14							1					MARCO BAY RD STOP
		R1-1	30"x30"	XI	XI									5.2 (XI)															ADJUST to 10' Clearance
100.971 Lt.		D3 (2)	42"x10"	IV	IV	6-0		4" Dia. POLE	12-8			5-0	3-0	2.9 (IV) 2.9 (IV)			14							1					SPRING CRK RD STOP
		R1-1	36"x36"	XI	XI									7.5 (XI)															
101.000 Rt.		D10-3 (2) (101)	10"x36"	IV	IV	4-0		2 lb. STL-U	10-8			4-0	3-0	2.5 (IV) 2.5 (IV)								22		1					101 MILE 100
101.212 Rt.		AL Cross	USE AS IS																										
101.297 Rt.		R1-1	30"x30"	XI	XI	R.S.F.O.						5-0		5.2 (XI)										1					STOP ONE WAY
101.212 Rt.		By Others	USE AS IS																										
101.499 Lt.		D3 By Others	USE AS IS																										WITHEY-LAMB RD
101.539 Lt.		D3 By Others	USE AS IS																										CRAGGY CLIFF RD
101.661 Rt.		R5-11	REMOVE																					1					COMPRESSION BRAKE MUFFLERS REQUIRED

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

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9706000sisum003.dgn		Roger D Schroeder	10/2020	SIGNING PLANS	
2		1/22/2021				FLATHEAD COUNTY	
1		1:39:22 PM CPS - U3162					

LAKESIDE - N & S		NH 5-3(151)93
	UPN #9706000	S9

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

MILE POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS REMOVE	SIGNS RESET	GUIDE REMOVE	GUIDE RESET	REMARKS
101.766 Rt.		W3-5 (45)	36"x36"	XI	XI	10-0		4" Dia. POLE		14-0		5-0	3-0	9.0 (XI)			14							1				FY	
101.808 Lt.		D3 By Others	USE AS IS																										
101.858 Lt.		R2-1 (55)	24"x30"	XI		10-0		4" Dia. POLE		12-4		5-0	3-0	5.0 (XI)			14							1					
101.875 Rt.		R2-1 (45)	36"x48"	XI		R.S.F.O.								12.0 (XI)										1					
		R2-6p	30"x6"	XI		R.S.F.O.								1.3 (XI)															
101.933 Lt.		W11-3	30"x30"	XI		10-0		4" Dia. POLE		12-9		5-7	3-0	6.3 (XI)			14											FY	New
		W7-3a (30)	24"x18"	XI										3.0 (XI)														FY	New
101.985 Rt.		W1-10Ra	36"x36"	XI		2-0		4" Dia. POLE		14-0		5-0	3-0	9.0 (XI)			14							1					
102.046 Rt.		D10-3 (2) (102)	10"x36"	IV	IV	4-0		2 lb. STL-U		10-8		4-0	3-0	2.5 (IV) 2.5 (IV)									22	1					
102.00 Rt.		By Others	USE AS IS																										
										TOTALS				352.7 (IV) 817.2 (XI)	262.0 (IV)		1,698	214				435.8		148		8			

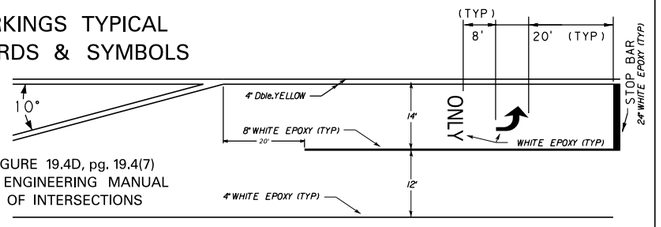
FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

RSFO = REPLACE SIGN FACE ONLY

DELINEATION TABLE		
⊣	DESIGN "A"	380
⊣⊢	DESIGN "D"	74
~~	White Linear Barrier	84
~~	White Linear W-Beam	4,530

MEDIAN TURN LANE DETAIL

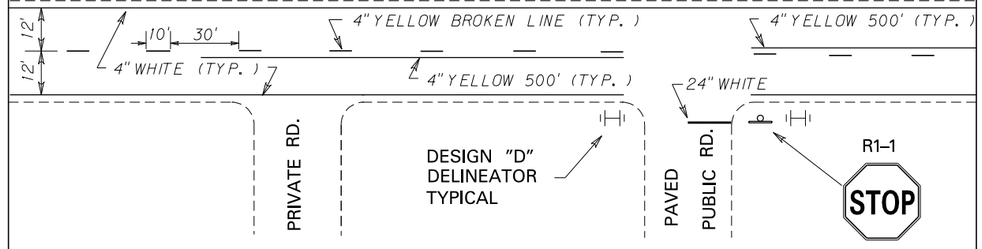
PAVEMENT MARKINGS TYPICAL
TURN LANE WORDS & SYMBOLS



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

TYPICAL PAVEMENT MARKINGS

NO SCALE

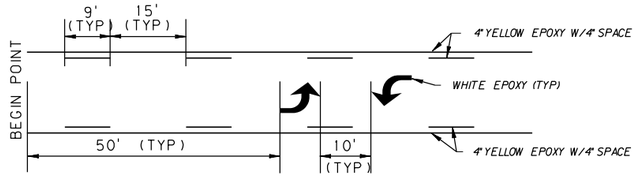


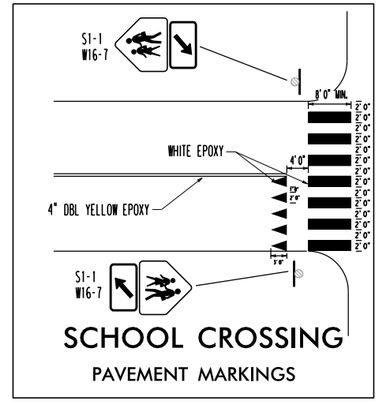
NOTE: FINAL CENTERLINE CONFIGURATION AND NO PASSING ZONES TO BE DETERMINED BY THE PROJECT MANAGER.

ALL PAVEMENT MARKINGS TO BE EPOXY UNLESS OTHERWISE SPECIFIED.

TWO WAY LEFT TURN PAVEMENT MARKINGS TYPICAL

URBAN

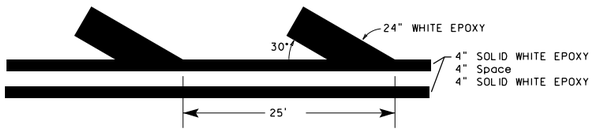




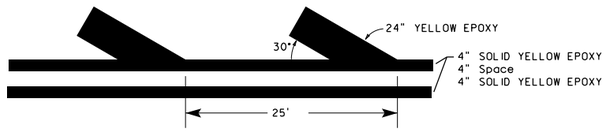
SCHOOL CROSSING

PAVEMENT MARKINGS

SHOULDER HATCHING DETAIL



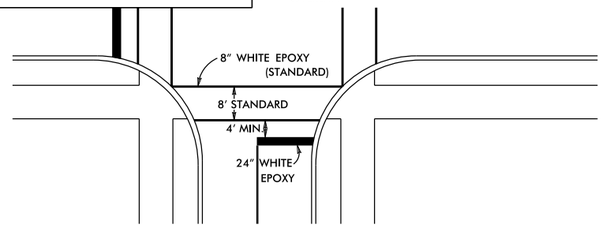
MEDIAN HATCHING DETAIL



TYPICAL PAVEMENT MARKINGS FOR PEDESTRIAN CROSSINGS

NOTE:
THE LOCATION OF THE CROSSWALK LINES ARE DEPENDENT ON LOCATION OF THE SIDEWALKS.

EXTEND CROSSWALKS TO CURB DO NOT OVERLAP.



3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9706000sisum004.dgn		Roger D Schroeder	10/2020	SIGNING PLANS	LAKESIDE - N & S / NH 5-3(151)93
2		1/22/2021				FLATHEAD COUNTY	UPN #9706000 / S10
1		1:39:31 PM CPS - U316					