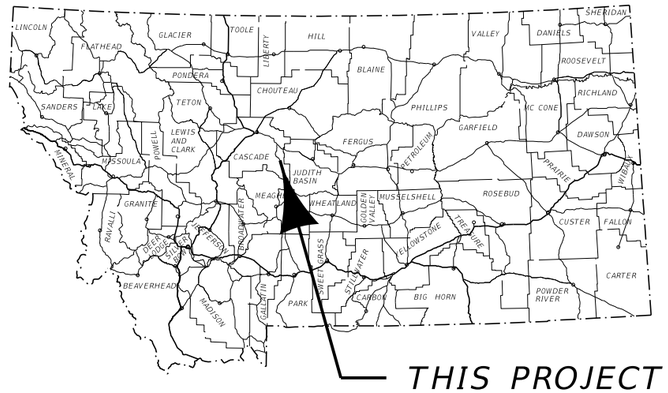
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MONTANA DEPARTMENT OF TRANSPORTATION

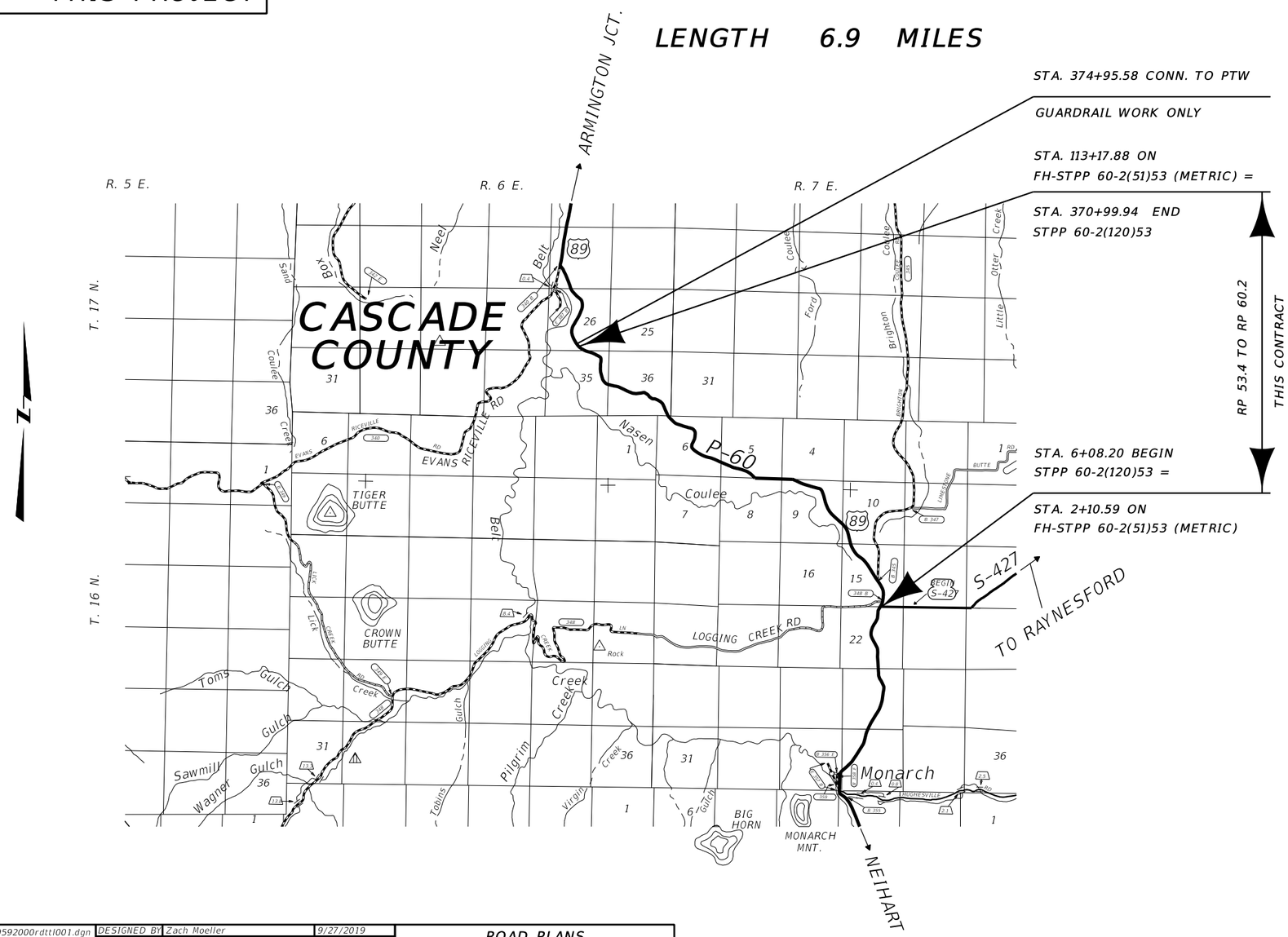
FEDERAL AID PROJECT STPP 60-2(120)53
PLANT MIX SURF. OVERLAY, S&C
MONARCH HILL - RICEVILLE
CASCADE COUNTY

PROJECT DESIGN DATA		
PRESENT 2019	A.D.T. =	730
LETTING 2020	A.D.T. =	750
DESIGN 2040	A.D.T. =	1,150
	D.H.V. =	200
	TRUCKS =	7.4%
	V. =	55 mph
	18 KIP ESAL'S =	23
	GROWTH RATE =	2.2%

LETTING DATE - _____

LENGTH 6.9 MILES

SURFACING SOURCES - CONTRACTOR FURNISHED



3	MDT	MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9592000rdtl001.dgn	DESIGNED BY	Zach Moeller	9/27/2019
2			1/6/2020	REVIEWED BY	Jeania Cereck	10/8/2019
			9:39:44 AM CPS - U511	CHECKED BY	Jerry Sabol	11/6/2019

ROAD PLANS

UPN 9592000

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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

COMP. AGGREGATE WEIGHT	= 3700 LBS. PER CUBIC YARD
COMP. WEIGHT OF PL. MIX BIT. SURF.	= 3855 LBS. PER CUBIC YARD
ASPHALT CEMENT - GRADE S - 1/2" AGG.	= 5.8% 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)
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

AS-BUILTS

FOR HORIZONTAL ALIGNMENT AND STATIONING, REFER TO THE FOLLOWING "AS-BUILT" PROJECT(S):
FH-STPP 60-2(51)53

COLD MILLINGS

COLD MILLINGS WILL BE RETAINED BY THE CONTRACTOR.

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICE BEFORE EXCAVATING.

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 IMPACT AREAS SHOWN IS THE RESPONSIBILITY OF THE CONTRACTOR.

EQUIPMENT

MOTOR GRADER HOURS HAVE BEEN PROVIDED, AT THE PROJECT MANAGERS DISCRETION, TO SHAPE SHOULDERS, APPROACHES, AND RE-GRADE LOGGING CREEK ROAD APPROACH FOR MAINTENANCE PLOW TURNAROUND.

APPROACHES

PLACE 3.0 FOOT WIDE PLANT MIX PAVED STRIP ADJACENT AND PARALLEL TO THE ROADWAY ON ALL APPROACHES.

QUANTITIES FOR ONE EXISTING APPROACH (60.0' AVG. WIDTH):

PLANT MIX BITUMINOUS SURF.	= 2.9 tons
ASPHALT CEMENT	= 0.17 tons
EMULSIFIED ASPHALT TACK	= 2 gallons

SALVAGE

DO NOT REUSE EXSISTING GUARDRAIL OR GUARDRAIL HARDWARE. STOCKPILE SALVAGEABLE GUARDRAIL AT THE MDT MAINTENANCE YARD AT EMERSON JUNCTION OFF I-15 AT RP 282.5 IN GREAT FALLS. UNLOAD NEATLY WHERE DIRECTED BY MDT PERSONNEL. CONTACT MDT GREAT FALLS MAINTENANCE CHIEF AT 406-4545889 AT LEAST 24 HOURS IN ADVANCE FOR LOCATION. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR THE HAUL AND DISPOSAL.

LINEAR DATA

LENGTH OF ROADWAY IN CASCADE COUNTY	RURAL	36,491.74 ft
TOTAL LENGTH OF STPP 60-2(120)53	RURAL	36,491.74 ft

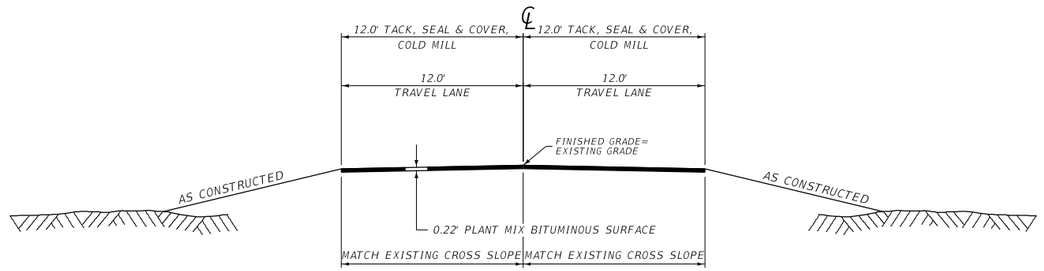
AWARD COPY

TYPICAL SECTION NO. 1

MAINLINE

6+08.20 TO 6+90.91
6+90.91 TO 7+93.96

TRANS. TYP. SECT. NO. 1 TO NO. 2



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		ASPHALT CEMENT	SEAL	# EMULS. ASPHALT TACK
AREA square feet		5.28	square yards PER STATION		267	534
cubic yards PER STATION		19.6	tons PER STATION	2.19	0.48	
tons PER STATION		37.8	gal PER STATION			27
square yards PER STATION	267					

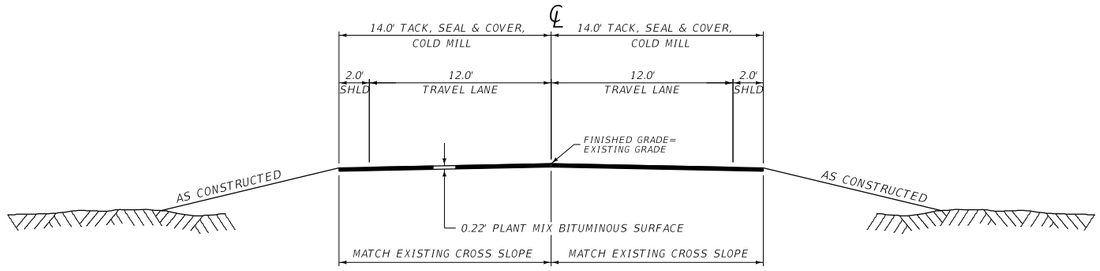
BASED ON TWO APPLICATIONS

TYPICAL SECTION NO. 2

MAINLINE

7+93.96

ONLY – THEN TO TYP. SECT. NO. 3



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		ASPHALT CEMENT	SEAL	# EMULS. ASPHALT TACK
AREA square feet		6.16	square yards PER STATION		311	622
cubic yards PER STATION		22.8	tons PER STATION	2.55	0.56	
tons PER STATION		43.9	gal PER STATION			31
square yards PER STATION	311					

BASED ON TWO APPLICATIONS

3	MDT	MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9592000rdtyp001.dgn	DESIGNED BY	Zach Moeller	9/27/2019	ROAD PLANS
2			1/6/2020	REVIEWED BY	Jeania Cereck	10/8/2019	
			9:42:16 AM CPS - U511	CHECKED BY	Jerry Sabol	11/6/2019	HILL COUNTY

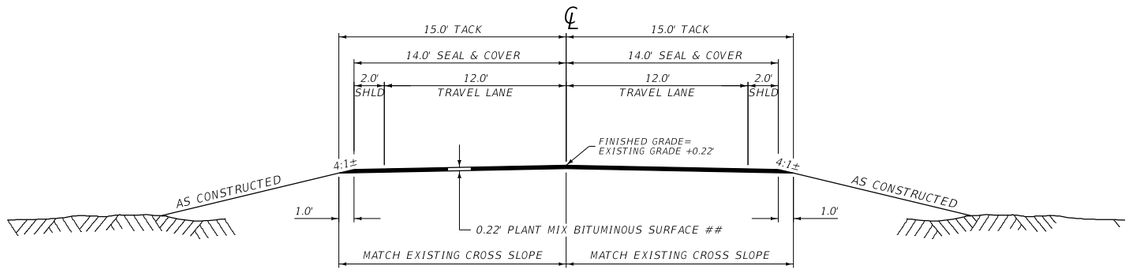
MONARCH HILL - RICEVILLE	STPP 60-2(120)53
UPN 9592000	03

AWARD COPY

TYPICAL SECTION NO. 3

MAINLINE

7+93.96	TO 8+43.18	TRANS. TYP. SECT. NO. 3 TO TYP. SECT. NO. 4
9+90.81	TO 205+03.68	
205+03.68	TO 205+52.89	TRANS. TYP. SECT. NO. 3 TO TYP. SECT. NO. 4
207+00.53	TO 363+84.16	
363+84.16	TO 364+33.37	TRANS. TYP. SECT. NO. 3 TO TYP. SECT. NO. 4
365+81.01	TO 370+01.51	TRANS. TYP. SECT. NO. 3 TO TYP. SECT. NO. 5



INCLUDES 0.07' ISOLATION LIFT

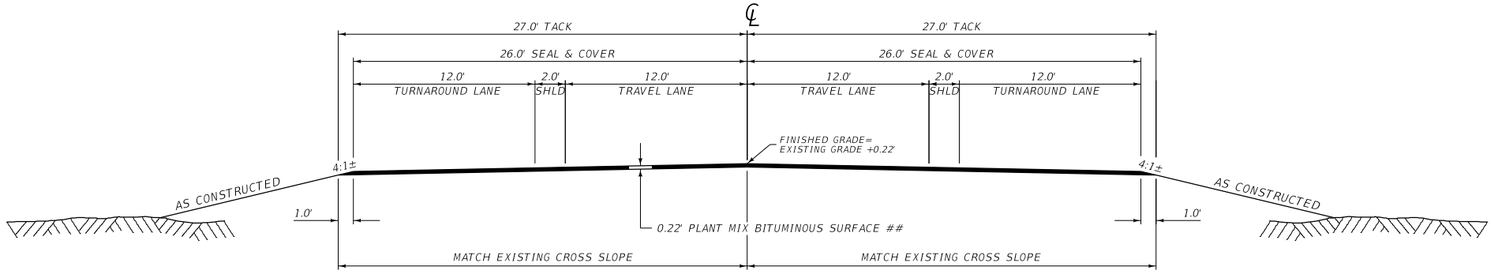
QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		ASPHALT CEMENT	SEAL	# EMULS. ASPHALT TACK
AREA square feet		6.38	square yards PER STATION		311	667
cubic yards PER STATION		23.6	tons PER STATION	2.64	0.56	
tons PER STATION		45.5	gal PER STATION			33
square yards PER STATION	311					

BASED ON TWO APPLICATIONS

TYPICAL SECTION NO. 4

MAINLINE

8+43.18	TO 9+41.60	
9+41.60	TO 9+90.81	TRANS. TYP. SECT. NO. 4 TO TYP. SECT. NO. 3
205+52.89	TO 206+51.32	
206+51.32	TO 207+00.53	TRANS. TYP. SECT. NO. 4 TO TYP. SECT. NO. 3
364+33.37	TO 365+31.79	
365+31.79	TO 365+81.01	TRANS. TYP. SECT. NO. 4 TO TYP. SECT. NO. 3



INCLUDES 0.07' ISOLATION LIFT

QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		ASPHALT CEMENT	SEAL	# EMULS. ASPHALT TACK
AREA square feet		11.66	square yards PER STATION		578	1200
cubic yards PER STATION		43.2	tons PER STATION	4.83	1.03	
tons PER STATION		83.3	gal PER STATION			60
square yards PER STATION	578					

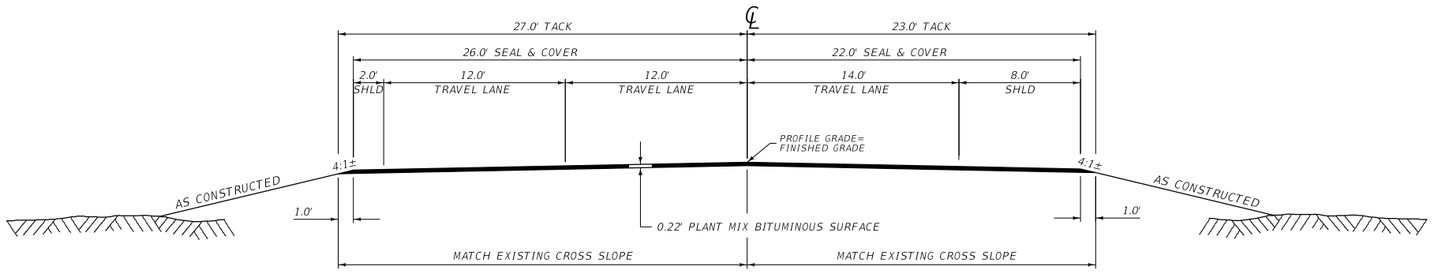
BASED ON TWO APPLICATIONS

AWARD COPY

TYPICAL SECTION NO. 5

MAINLINE

370+01.51 TO 370+99.94 END CONN. TO PTW



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER	PLANT MIX		ASPHALT CEMENT	SEAL	# EMULS. ASPHALT TACK
AREA square feet		10.78	square yards PER STATION		533	1111
cubic yards PER STATION		39.9	tons PER STATION	4.46	0.95	
tons PER STATION		76.9	gal PER STATION			56
square yards PER STATION	533					

BASED ON TWO APPLICATIONS

2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9592000rdtyp001.dgn	DESIGNED BY	Zach Moeller	9/27/2019	ROAD PLANS	MONARCH HILL - RICEVILLE / STPP 60-2(120)53
1		1/6/2020	REVIEWED BY	Jeania Cereck	10/8/2019		
		9:43:54 AM CPS - U511	CHECKED BY	Jerry Sabol	11/6/2019	HILL COUNTY	UPN 9592000 / 05

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SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	tons HYDRATED LIME	AGGREGATE square yards COVER TYPE 1	AGGREGATE tons PLANT MIX BIT. SURF. GR. S 1/2 "	AGGREGATE tons PLANT MIX BIT. SURF. GR. S - MISC	AGGREGATE cubic yards SHOULDER GRAVEL	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 64-28	BITUMINOUS MATERIAL tons SEAL CHFRS-2P	BITUMINOUS MATERIAL gallons EMULSIFIED ASPHALT TACK	REMARKS
6+08.20	6+90.91	82.71	82.71					221	31			1.8	0.4	22	TYP. SECT. NO. 1
6+90.91	7+93.96	103.05	103.05					298	42			2.4	0.5	30	TRANS. TYP. SECT. NO. 1 TO TYP. SECT. NO. 2
7+93.96	8+43.18	49.22	49.22					219	32			1.8	0.4	23	TRANS. TYP. SECT. NO. 3 TO TYP. SECT. NO. 4
8+43.18	9+41.60	98.42	98.42					569	82			4.8	1.0	59	TYP. SECT. NO. 4
9+41.60	9+90.81	49.21	49.21					219	32			1.8	0.4	23	TRANS. TYP. SECT. NO. 4 TO TYP. SECT. NO. 3
9+90.81	205+03.68	19,512.87	19,512.87					60,685	8,878			515.1	109.3	6,439	TYP. SECT. NO. 3
205+03.68	205+52.89	49.21	49.21					219	32			1.8	0.4	23	TRANS. TYP. SECT. NO. 3 TO TYP. SECT. NO. 4
205+52.89	206+51.32	98.43	98.43					569	82			4.8	1.0	59	TYP. SECT. NO. 4
206+51.32	207+00.53	49.21	49.21					219	32			1.8	0.4	23	TRANS. TYP. SECT. NO. 4 TO TYP. SECT. NO. 3
207+00.53	363+84.16	15,683.63	15,683.63					48,776	7,136			414.0	87.8	5,176	TYP. SECT. NO. 3
363+84.16	364+33.37	49.21	49.21					219	32			1.8	0.4	23	TRANS. TYP. SECT. NO. 3 TO TYP. SECT. NO. 4
364+33.37	365+31.79	98.42	98.42					569	82			4.8	1.0	59	TYP. SECT. NO. 4
365+31.79	365+81.01	49.22	49.22					219	32			1.8	0.4	23	TRANS. TYP. SECT. NO. 4 TO TYP. SECT. NO. 3
365+81.01	370+01.51	420.50	420.50					1,775	257			14.9	3.2	187	TRANS. TYP. SECT. NO. 3 TO TYP. SECT. NO. 5
370+01.51	370+99.94	98.43	98.43					525	76			4.4	0.9	55	TYP. SECT. NO. 5
						ADDITIONAL SURFACING			168	66	390	13.7		163	
TOTAL		36,491.74	36,491.74	~	~		239	115,301	17,026	66	390	991.5	207.5	12,387	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	tons HYDRATED LIME	AGGREGATE square yards COVER TYPE 1	AGGREGATE tons PLANT MIX BIT. SURF. GR. S - 1/2"	AGGREGATE tons PLANT MIX BIT. SURF. GR. S - MISC	AGGREGATE cubic yards SHOULDER GRAVEL	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 64-28	BITUMINOUS MATERIAL tons SEAL CHFRS-2P	BITUMINOUS MATERIAL gallons EMULSIFIED ASPHALT TACK	REMARKS
						(58) APPROACHES			168			9.9		116	
6+70.20						LOGGING CRK. RD. APPROACH				66		3.8		47	SEE DETAIL.
						SHOULDER INSLOPE RESTORATION					390				SEE NOTES PAGE.
SUBTOTAL		~	~	~	~		~	~	168	66	390	13.7	~	163	

SUMMARY

GUARDRAIL

STATION		linear feet				each		REMARKS
		REMOVE GUARDRAIL		MGS GUARDRAIL		MASH W-BEAM TERMINAL SECTION		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
370+80.58	374+95.58			412.5		2		PLACE AT EXISTING OFFSET
370+80.58	374+95.58	412.5						
SUBTOTAL		412.5	~	412.5	~	2	~	
TOTAL		412.5		412.5		2		

FIELD FIT AS NECESSARY.

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	248		248
STRIPING - YELLOW PAINT	gallon	181		181
WORDS & SYMBOLS - WHITE PAINT	gallon	1		1
STRIPING - WHITE EPOXY	gallon		331	331
STRIPING - YELLOW EPOXY	gallon		241	241
WORDS & SYMBOLS - WHITE EPOXY	gallon		1	1
TEMPORARY STRIPING	linear foot			42,512
FINAL SWEEP AND BROOM	cr mile			6.9

RUMBLE STRIPS

STATION		miles RUMBLE STRIPS CENTERLINE TYPE 2	REMARKS
FROM	TO		
307+04.20	359+84.20	1.0	RP 59.1 TO RP 60.1
SUBTOTAL		1.0	
TOTAL		1.0	

COLD MILLING

STATION		square yards COLD MILLING	REMARKS
FROM	TO	0.22 ft	
6+08.20	6+90.91	221	24.0' WIDE FULL DEPTH
6+90.91	7+93.96	298	TAPER MILL -TRANSITION 12.0' TO 14.0' WIDE #
6+70.20		37	3.0' WIDE TAPER MILL - ON LOGGING CREEK ROAD
368+99.94	370+99.94	1,111	TAPER MILL - 50.0' WIDE #
TOTAL		1,667	

SEE DETAILS

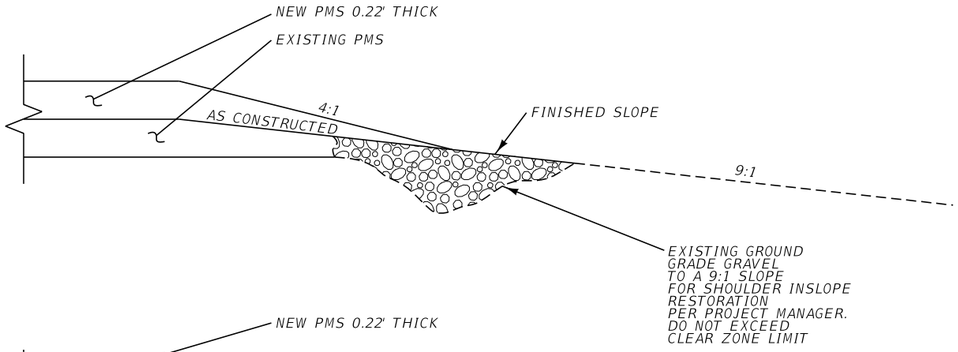
EQUIPMENT

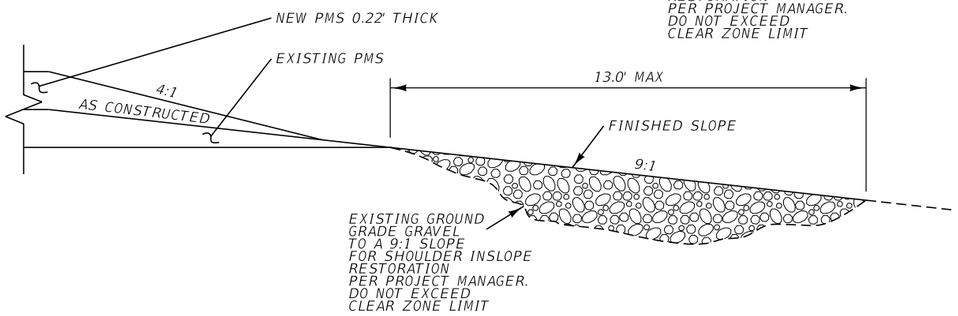
STATION		hours MOTOR GRADER	REMARKS
FROM	TO		
6+08.20	370+99	16	SEE NOTE ON NOTES PAGE.
TOTAL		16	

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SHOULDER INSLOPE RESTORATION

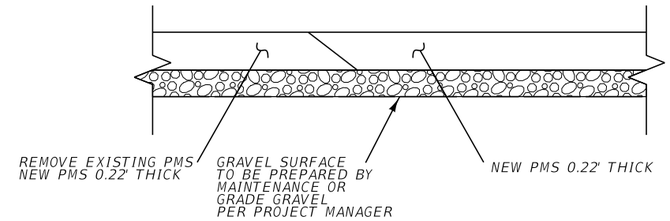
NOTE: LOCATIONS THAT REQUIRE SHOULDER INSLOPE RESTORATION ARE INTERMITTENTLY LOCATED WITHIN THE PROJECT. LOCATIONS OF WORK WILL BE DETERMINED BY THE PROJECT MANAGER.



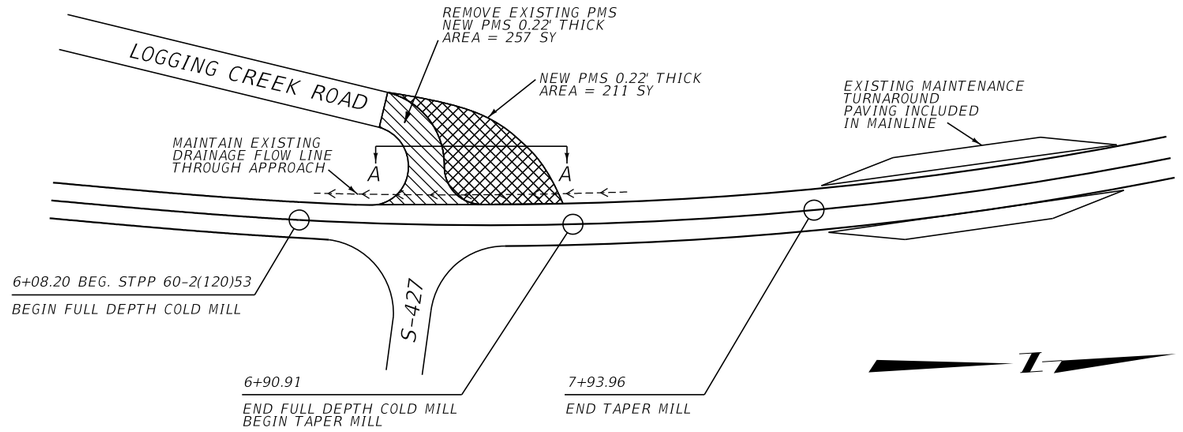


DETAIL

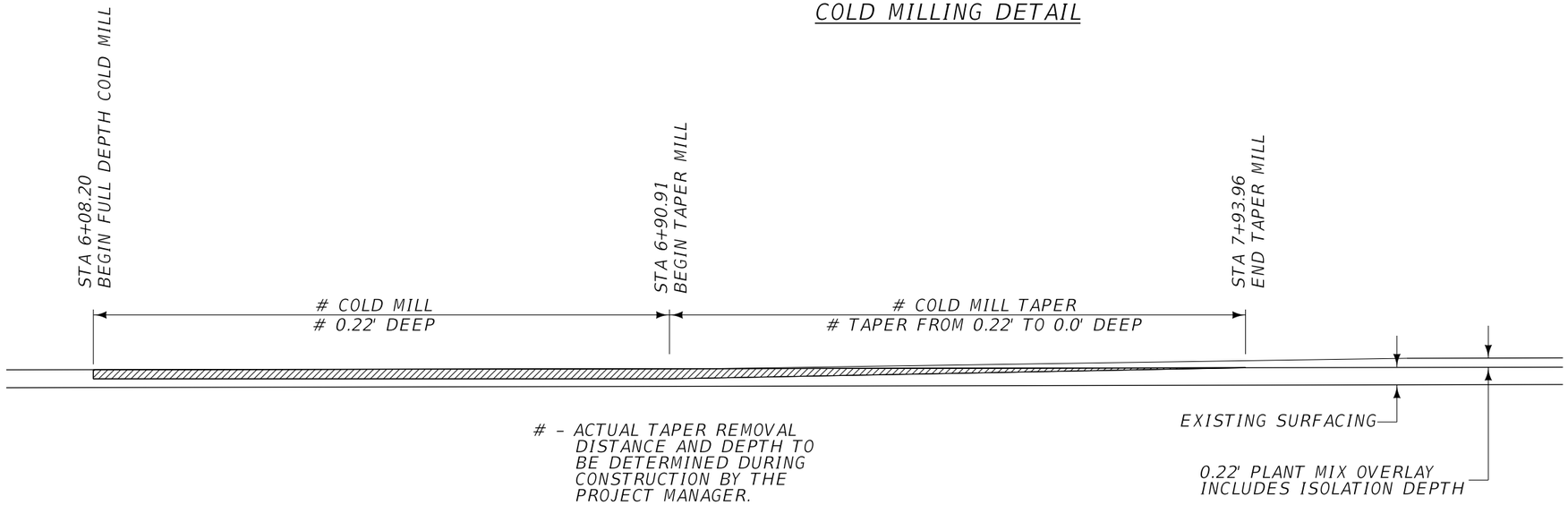
LOGGING CRK RD APPROACH DETAIL



SECTION A-A



COLD MILLING DETAIL



- ACTUAL TAPER REMOVAL DISTANCE AND DEPTH TO BE DETERMINED DURING CONSTRUCTION BY THE PROJECT MANAGER.

SHOULDER INSLOPE RESTORATION, COLD MILLING, LOGGING CRK RD APPROACH DETAILS

NO SCALE

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9592000rddet001.dgn	DESIGNED BY	Zach Moeller	9/27/2019	ROAD PLANS	MONARCH HILL - RICEVILLE / STPP 60-2(120)53
2		1/6/2020	REVIEWED BY	Jeania Cereck	10/8/2019		
		9:48:12 AM CPS - U511A	CHECKED BY	Jerry Sabol	11/6/2019	HILL COUNTY	UPN 9592000 / 08

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SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-SHEET ALUMINUM-REFLECTIVE SHEETING(IV)	85.6	SQ. FOOT
SIGNS-SHEET ALUMINUM-REFLECTIVE SHEETING(XI)	176.2	SQ. FOOT
SIGNS-ALUMINUM SHEET INCREMENT SHEETING (IV)	19.0	SQ. FOOT
SIGNS-ALUMINUM SHEET INCREMENT SHEETING (XI)		SQ. FOOT
OVERLAY-SHEET ALUMINUM		SQ. FOOT
POSTS-STEEL "U"	140	POUNDS
POLES-TREATED WOOD-4" DIA.	40	LINEAR FT.
POLES-TREATED WOOD-5" DIA.		LINEAR FT.
POLES-TREATED TIMBER-CLASS 4		LINEAR FT.
POLES-TREATED TIMBER-CLASS 3		LINEAR FT.
POSTS-TUBULAR STEEL (ROUND)		POUNDS
POSTS-TUBULAR STEEL (SQUARE PERFORATED)		POUNDS
POSTS-STRUCTURAL STEEL		POUNDS
OVERHEAD STRUCTURE-METAL-CANTILEVER		EACH
OVERHEAD STRUCTURE-METAL-BRIDGE		EACH
HIGHWAY TRAFFIC STRIPING-WHITE		GAL.(S)
HIGHWAY TRAFFIC STRIPING-YELLOW		GAL.(S)
WORDS & SYMBOLS		GAL.(S)
DELINEATOR-DESIGN A		EACH
DELINEATOR-DESIGN B		EACH
DELINEATOR-DESIGN C		EACH
DELINEATOR-DESIGN D	18	EACH
DELINEATOR-DESIGN E		EACH
DELINEATOR-DESIGN F	248	EACH
DELINEATOR-DESIGN G		EACH
DELINEATOR-DESIGN H		EACH
REMOVE SIGNS	37	EACH
REMOVE SIGNS-GUIDE	1	EACH
RESET SIGNS		EACH
RESET SIGNS-GUIDE		EACH
FRANGIBLE SIGN POST BREAKAWAY DEVICE-		EACH
FRANGIBLE SIGN POST BREAKAWAY DEVICE-		EACH
SQUARE TUBULAR SLIPBASE BREAKAWAY DEVICE-3"		EACH

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SIGN LOCATION AND SPECIFICATIONS

REF. POST		SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	FEET: 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	BREAK AWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
53.348 LT		W1-7	48 X 24	XI	-							5-0		8.0(XI)									1					RSFO W1-7
53.348 LT		R1-1	30 x 30	XI	XI							5-0		5.2(XI)									1					RSFO R1-1 STOP
53.353 RT		R1-1	30 x 30	XI	XI							5-0		5.2(XI)									1					RSFO R1-1 STOP
53.368 RT		M1-3 M1-4	24 X 12 24 x 24	XI XI	- -							5-0		2.0(XI) 4.0(XI)									1					RSFO M3-1 NORTH M1-4 89
53.373 LT		M1-12 M6-1L	24 x 24 21 x 15	XI XI	- -							5-0		4.0(XI) 2.2(XI)									1					RSFO M1-12 427 M6-1L
		M1-4 M6-3	24 x 24 21 x 15	XI XI	- -									4.0(XI) 2.2(XI)														M1-4 89 M6-3
53.408 LT		G60-53a	114 x 24	IV	IV							7-0			19.0(IV)									1			RSFO G60-53a RAYNESFORD
53.419 LT		M1-7 D9-99c	USE AS IS																									USE AS IS M1-7 839 D9-99c
53.437 RT		R2-1 R2-3a	24 x 30 24 x 18	XI XI	- -							5-7		5.0(XI) 3.0(XI)									1					RSFO R2-1 SPEED LIMIT 70 R2-3b NIGHT 65
53.462 LT		M2-1 M1-12	21 x 15 24 x 24	XI XI	- -							5-0		2.2(XI) 4.0(XI)									1					RSFO M2-1 JCT M1-12 427
53.486 RT		R2-6	24 x 30	XI	-							5-7		5.0(XI)									1					RSFO R2-6a TRUCK SPEED LIMIT 65
53.531 RT		G60-61a	36 x 12	IV	IV	10-0		4" DIA POLE		11-0		5-0	3-0	3.0(IV)			12						1					REPLACE G60-61a PAUL J. ERICKSON MEMORIAL HIGHWAY
53.560 RT		W11-13 W7-3aP	30 x 30 24 x 18	XI XI	- -	10-0		4" DIA POLE		14-0		5-7	3-0	6.3(XI) 3.0(XI)			14											NEW W11-13 HEIGHT 2RSGBNG W7-3aP NEXT 6 MILES
53.595 LT		BY OTHERS	USFS																									USE AS IS USFS FIRE DANGER TODAY
53.753 RT		R1-1	30 x 30	XI	-							5-0		5.2(XI)									1					RSFO R1-1 STOP
54.000 RT		D10-2 D10-2	10 x 27 10 x 27	IV IV	IV IV	4-0		2 LBS STL U		10-0		4-0	3-0	1.9(IV) 1.9(IV)								20	1					REPLACE (2) D10-2 S1 5 4
54.275 RT		W14-3	36 x 48 x 48	XI	-							5-0		5.5(XI)									1				FY	RSFO W14-3 NO PASSING ZONE
54.650 LT		W14-3	36 x 48 x 48	XI	-							5-0		5.5(XI)									1				FY	RSFO W14-3 NO PASSING ZONE
55.800 RT		D10-2 D10-2	10 x 27 10 x 27	IV IV	IV IV	4-0		2 LBS STL U		10-0		4-0	3-0	1.9(IV) 1.9(IV)								20	1					REPLACE (2) D10-2 S1 5 5
54.955 RT		N7-1	36 x 48	IV	IV							5-0		12.0(IV)									1					RSFO N7-1
55.137 RT		W14-3	36 x 48 x 48	XI	-							5-0		5.5(XI)									1				FY	RSFO W14-3 NO PASSING ZONE
55.620 LT		W14-3	36 x 48 x 48	XI	-							5-0		5.5(XI)									1				FY	RSFO W14-3 NO PASSING ZONE
56.00 RT		D10-2 D10-2	10 x 27 10 x 27	IV IV	IV IV	4-0		2 LBS STL U		10-0		4-0	3-0	1.9(IV) 1.9(IV)								20	1					REPLACE (2) D10-2 S1 5 6
56.015 RT		W14-3	36 x 48 x 48	XI	-							5-0		5.5(XI)													FY	RSFO W14-3 NO PASSING ZONE
56.391 LT		W14-3	36 x 48 x 48	XI	-							5-0		5.5(XI)									1				FY	RSFO W14-3 NO PASSING ZONE
56.832 RT		W14-3	36 x 48 x 48	XI	-							5-0		5.5(XI)									1				FY	RSFO W14-3 NO PASSING ZONE
56.837 RT		D6-4c	48 x 30	IV	IV							5-0		10.0(IV)									1					RSFO D6-4c CELL PHONE PULL OUT 1/4 MILE
57.000 RT		D10-2 D10-2	10 x 27 10 x 27	IV IV	IV IV	4-0		2 LBS STL U		10-0		4-0	3-0	1.9(IV) 1.9(IV)								20	1					REPLACE (2) D10-2 S1 5 7
57.208 LT		W14-3	36 x 48 x 48	XI	-							5-0		5.5(XI)									1				FY	RSFO W14-3 NO PASSING ZONE
57.305 LT		D6-4C	48 x 30	IV	IV							5-0		10.0(IV)									1					RSFO D6-4c CELL PHONE PULL OUT 1/4 MILE

NOTE

SIGN LOCATIONS ARE APPROXIMATE
PROJECT MANAGER TO FIELD
ADJUST AS NECESSARY

FY = TYPE XI FLUORESCENT YELLOW
SHEETING REQUIRED.

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9592000sisum001.dgn	DESIGNED BY	HAYWARD	9/19	SIGNING PLANS	MONARCH HILL - RICEVILLE / STPP 60-2 (120) 53
2		1/6/2020	REVIEWED BY			CASCADE COUNTY	UPN 9592000 / S2
1		9:50:24 AM CPS - U511	CHECKED BY				

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

REF. POST		SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	FEET: 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	BREAK AWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
57.384 RT		S3-1	REMOVE																				1					REMOVE S3-1
58.000 RT		D10-2 D10-2	10 x 27 10 x 27	IV IV	IV IV	4-0		2 LBS STL U		10-0		4-0	3-0	1.9(IV) 1.9(IV)								20		1					REPLACE (2) D10-2
58.381 RT		W14-3	36 x 48 x 48	XI	-							5-0		5.5(XI)										1				FY	RSFO W14-3
59.00 RT		D10-2 D10-2	10 x 27 10 x 27	IV IV	IV IV	4-0		2 LBS STL U		10-0		4-0	3-0	1.9(IV) 1.9(IV)								20		1					REPLACE (2) D10-2
59.000 RT		N7-1	36 x 48	IV	IV							5-0		12.0(IV)										1					RSFO N7-1 N7-1P GREAT FALLS SAFARI CLUB INT.
59.000 LT		N7-1	36 x 48	IV	IV							5-0		12.0(IV)										1					RSFO N7-1
59.286 LT		W14-3	36 x 48 x 48	XI	-							5-0		5.5(XI)										1				FY	RSFO W14-3
59.374 RT		W1-4R W13-1	30 x 30 18 x 18	XI XI	- -							5-7		6.3(XI) 2.3(XI)										1				FY	RSFO W1-4R W13-1 60 M.P.H.
60.000 RT		D10-2 D10-2	10 x 27 10 x 27	IV IV	IV IV	4-0		2 LBS STL U		10-0		4-0	3-0	1.9(IV) 1.9(IV)								20		1					REPLACE (2) D10-2
59.162 LT		W1-4R W13-1	30 x 30 18 x 18	XI XI	- -							5-7		6.3(XI) 2.3(XI)										1				FY	RSFO W1-4R W13-1 60 M.P.H.
60.162 RT		W1-2R	30 x 30	XI XI	- -							5-0		6.3(XI)										1				FY	RSFO W1-2R
60.162 RT		W1-4R W13-1	30 x 30 18 x 18	XI XI	- -							5-7		6.3(XI) 2.3(XI)										1				FY	RSFO W1-4R W13-1 60 M.P.H.
60.216 RT		W7-1 W7-3a	30 x 30 24 x 18	XI XI	- -							5-7		6.3(XI) 3.0(XI)										1					RSFO W7-1 W7-3a 6% GRADE 2 MILES
60.216 LT		W11-13 W7-3aP	30 x 30 24 x 18	XI XI	- -	10-0		4" DIA POLE		14-0		5-7	3-0	6.3(XI) 3.0(XI)			14												NEW W11-13 W7-3aP NEXT 6 MILES
TOTALS														85.6(IV) 176.2(XI)	19.0(IV)		40					140		37		1			

NOTE

SIGN LOCATIONS ARE APPROXIMATE
PROJECT MANAGER TO FIELD
ADJUST AS NECESSARY

FYG = TYPE XI FLUORESCENT YELLOW-GREEN SHEETING REQUIRED.

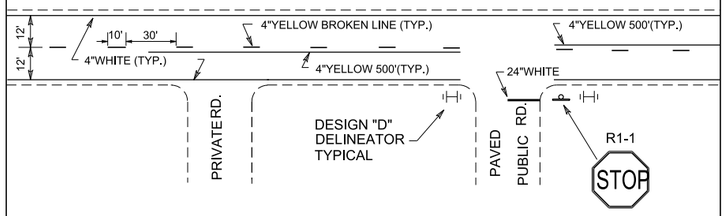
FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

NOTE

Where Adopt A Highway sign(s) exist on a project, Contractor will confirm that the group name on the sign(s) currently existing at the time of construction corresponds to the group name on sign(s) shown in the plans.
If the name is different, the Field Project Manager will contact Traffic and Safety Bureau Signing Section with correct name and a new sign design will be provided.

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.

DELINEATION TABLE		
	DESIGN "A"	
	DESIGN "B"	
	DESIGN "C"	
	DESIGN "D"	18
	DESIGN "E"	
	DESIGN "F"	248
	DESIGN "G"	
	DESIGN "H"	
	DESIGN "J"	
	DESIGN "BJ"	
	DESIGN "GJ"	

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9592000sisum001.dgn	DESIGNED BY	HAYWARD	9/19	SIGNING PLANS		MONARCH HILL - RICEVILLE	STPP 60-2 (120) 53
2		1/6/2020	REVIEWED BY						
1		9:51:13 AM CPS - U511	CHECKED BY			CASCADE COUNTY		UPN 9592000	S3