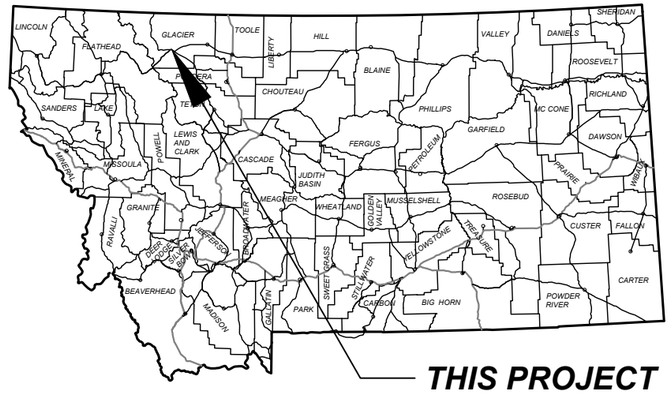
AWARD COPY



MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT STPS 464-1(19)0

SCRUB SEAL, POLYMER OVERLAY, BRIDGE DECK SEAL, AND GUARDRAIL

BROWNING - NORTH

GLACIER COUNTY

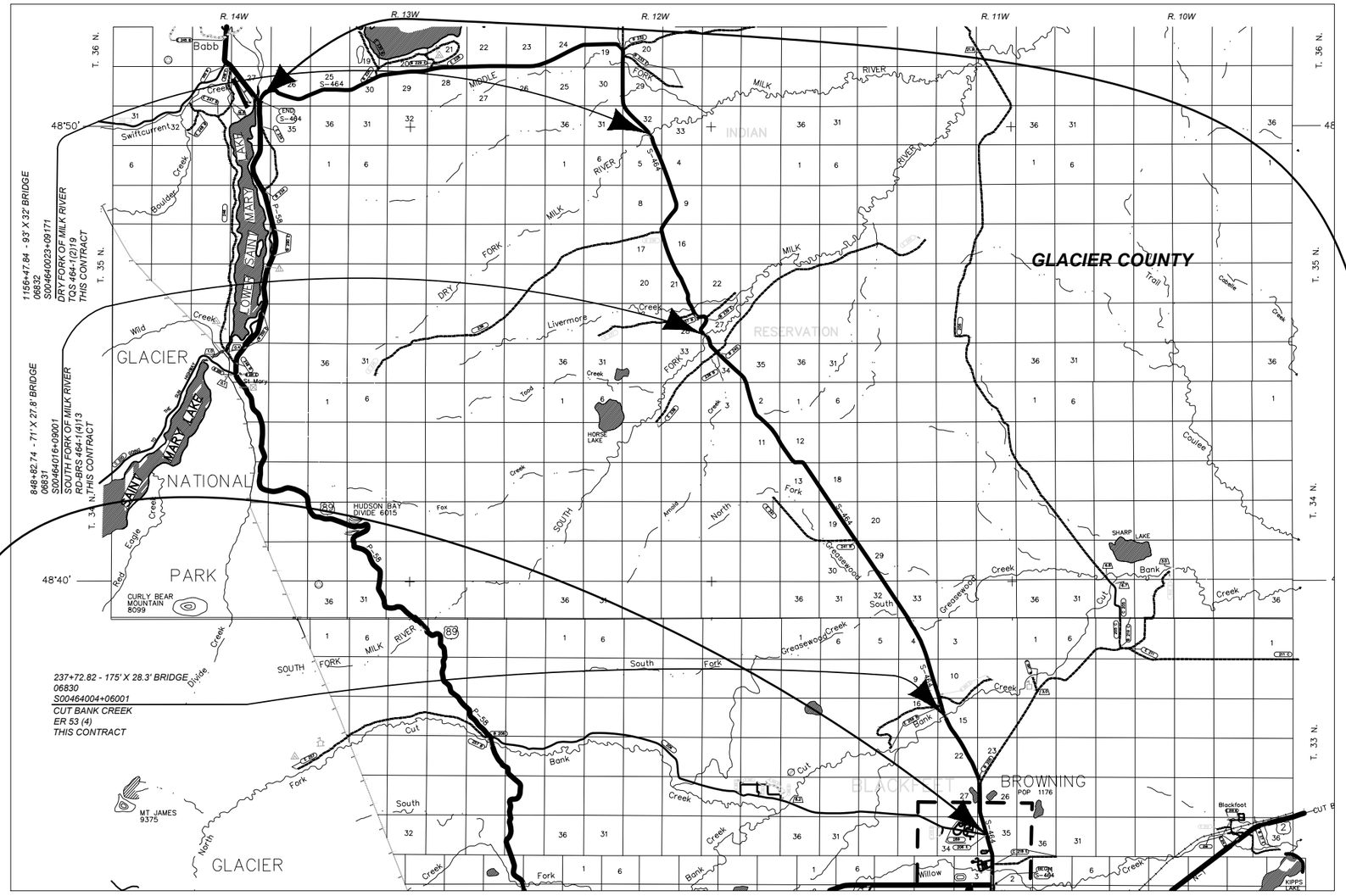
LENGTH 33.5 MILES

PROJECT DESIGN DATA
URBAN DATA (RP 0.00 TO 1.30)

PRESENT	2023	A.D.T. =	6,560
LETTING	2024	A.D.T. =	6,620
DESIGN	2044	A.D.T. =	8,080
		D.H.V. =	860
		TRUCKS =	3.4%
		V. =	25 MPH
		18 KIP ESAL'S =	69
		GROWTH RATE =	1.0%

PROJECT DESIGN DATA
RURAL DATA (RP 1.30 TO 33.64)

PRESENT	2023	A.D.T. =	1,210
LETTING	2024	A.D.T. =	1,220
DESIGN	2044	A.D.T. =	1,490
		D.H.V. =	170
		TRUCKS =	4.1%
		V. =	50 MPH
		18 KIP ESAL'S =	21
		GROWTH RATE =	1.0%



STA. 2+00 ON AS-BUILT S-266(2)
BEGIN STPS 464-1(19)0 = STA. 2+00
RP 0.00 TO RP 33.70
THIS CONTRACT
END STPS 464-1(19)0 = STA. 1773+10.50
STA. 1773+10.50 ON AS-BUILT S-266(4)

SHEET NO.
01

TITLE SHEET

PROJECT NAME	BROWNING - NORTH
COUNTY	GLACIER COUNTY
PROJECT ID	STPS 464-1(19)0
UPN	10246000
CHECKED BY	J. SABOL
REVIEWED BY	R. SNYDER
DESIGNED BY	K. LABONDE
11/2/2022	10246000RDTTL.DWG

MONTANA
Department of Transportation

ROAD PLANS

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TABLE OF CONTENTS

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GUARDRAIL	7
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SIGNING PLANS	SHEET NO.
SUMMARY	S1
SPECIFICATIONS	S2 - S8
DETAILS	S9 - S10
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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

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

AS-BUILTS

FOR MORE INFORMATION, REFER TO THE FOLLOWING AS-BUILT PROJECT(S):
RTS 464-1(6)1 (OVERLAY, AND SEAL & COVER)
RS-BRS 464-1(4)13 (GRADE, GRAVEL, PLANT MIX SURF., AND STRUCT.)
RS-TQS 464-1(2)19 U2 (GRADE, GRAVEL, AND PLANT MIX BASE)
S 266(1) (RECONSTRUCT)
S 266(4) (RECONSTRUCT)
TQS 464-1(2)19 U1 (BRIDGE AND APPROACH WORK)

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 MAY EXIST BEYOND THE PROJECT LIMITS. A WETLAND DELINEATION HAS NOT BEEN COMPLETED FOR THIS PROJECT. IMPACTS TO WETLAND AREAS ARE NOT ANTICIPATED IN ASSOCIATION WITH THE PROPOSED WORK. NO PERMITS HAVE BEEN OBTAINED. ANY ACTION IMPACTING WETLAND AREAS IS THE RESPONSIBILITY OF THE CONTRACTOR.

PAVEMENT MARKINGS

EXISTING PAVEMENT MARKINGS ARE IN THE FINAL LOCATION UNLESS ADJUSTED BY THE PROJECT MANAGER. PRESERVE AND REPLACE ALL STRIPING INCLUDING WORDS AND SYMBOLS IN THEIR ORIGINAL LOCATION.

LINEAR DATA

LENGTH OF ROADWAY	GLACIER COUNTY	4 LANE	6,558.00 ft
LENGTH OF ROADWAY	GLACIER COUNTY	3 LANE	520.00 ft
LENGTH OF ROADWAY	GLACIER COUNTY	2 LANE	169,993.50 ft
LENGTH OF BRIDGE	GLACIER COUNTY		175.00 ft
LENGTH OF BRIDGE	GLACIER COUNTY		71.00 ft
LENGTH OF BRIDGE	GLACIER COUNTY		93.00 ft
TOTAL LENGTH OF STPS 464-1(19)0		RURAL ROADWAY	177,110.50 ft

SHEET NO. 02

NOTES, TABLE OF CONTENTS, AND LINEAR DATA

PROJECT NAME: BROWNING - NORTH
COUNTY: GLACIER COUNTY
PROJECT ID: STPS 464-1(19)0
UPN: 10246000

CHECKED BY: J.SABOL
REVIEWED BY: R. SNYDER
DESIGNED BY: K. LABONDE
12/5/2022
10246000RDTTL.DWG

MONTANA Department of Transportation

ROAD PLANS

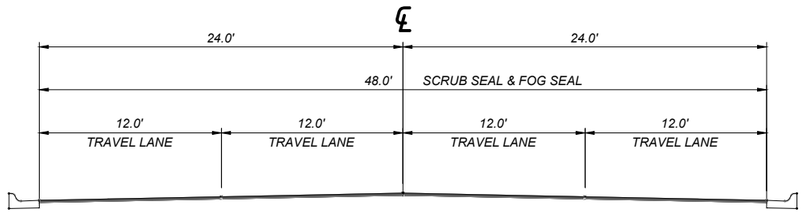
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TYPICAL SECTION NO. 1

MAINLINE

2+00.00			BOP
2+00.00	TO	65+58.00	THEN TO TYP. NO. 2

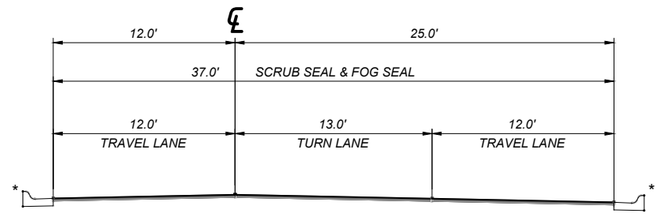


QUANTITIES				
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL	
	SCRUB SEAL COVER (TYPE I)		SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL
AREA square feet		square yards PER STATION		533
cubic yards PER STATION		tons PER STATION	0.95	
tons PER STATION		gals. PER STATION		40
square yards PER STATION	533			

TYPICAL SECTION NO. 2

MAINLINE

65+58.00	TO	69+78.00	
69+78.00	TO	71+78.00	TRANS. TYP. SECT. NO. 2 TO NO. 3



QUANTITIES				
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL	
	SCRUB SEAL COVER (TYPE I)		SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL
AREA square feet		square yards PER STATION		411
cubic yards PER STATION		tons PER STATION	0.73	
tons PER STATION		gals. PER STATION		31
square yards PER STATION	411			

* CURB LOCATIONS VARY, FOR MORE INFORMATION SEE ACCELERATION LANE DETAIL.

SHEET NO. 03

TYPICAL SECTIONS

PROJECT NAME: BROWNING - NORTH
COUNTY: GLACIER COUNTY
PROJECT ID: STPS 464-1(19)0
UPN: 10246000

CHECKED BY	J. SABOL	
REVIEWED BY	R. SNYDER	12/5/2022
DESIGNED BY	K. LABONDE	10246000RDTYP001.DWG

MONTANA Department of Transportation

ROAD PLANS

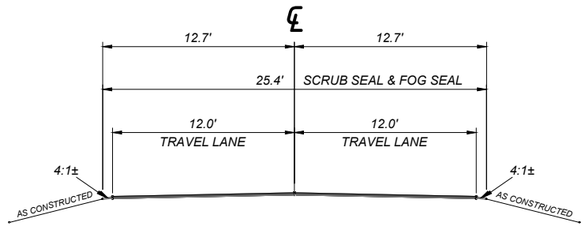
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TYPICAL SECTION NO. 3

MAINLINE

71+78.00 TO 121+44.00
121+44.00 TO 123+44.00 TRANS. TYP. SECT. NO. 3 TO NO. 4

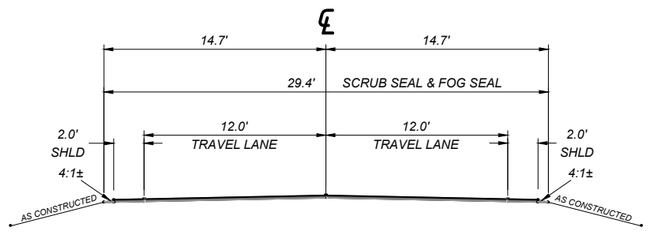


QUANTITIES				
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL	
	SCRUB SEAL COVER (TYPE I)		SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL
AREA square feet		square yards PER STATION		282
cubic yards PER STATION		tons PER STATION	0.50	
tons PER STATION		gals. PER STATION		21
square yards PER STATION	282			

TYPICAL SECTION NO. 4

MAINLINE

123+44.00 TO 236+85.32 BE
238+60.32 BE TO 848+47.24 BE
849+18.24 BE TO 1156+01.34 BE
1156+94.34 BE TO 1331+58.50
1331+58.50 TO 1333+58.50 TRANS. TYP. SECT. NO. 4 TO NO. 5



QUANTITIES				
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL	
	SCRUB SEAL COVER (TYPE I)		SCRUB SEAL EMULSION	EMULSIFIED ASPHALT FOG SEAL
AREA square feet		square yards PER STATION		327
cubic yards PER STATION		tons PER STATION	0.58	
tons PER STATION		gals. PER STATION		25
square yards PER STATION	327			

SHEET NO.
04

TYPICAL SECTIONS

PROJECT NAME: BROWNING - NORTH
COUNTY: GLACIER COUNTY
PROJECT ID: STPS 464-1(19)0
UPN: 10246000

	CHECKED BY	REVIEWED BY	DESIGNED BY	12/5/2022
	J. SABOL	R. SNYDER	K. LABONDE	10246000RDTYP001.DWG

MONTANA
Department of Transportation

ROAD PLANS

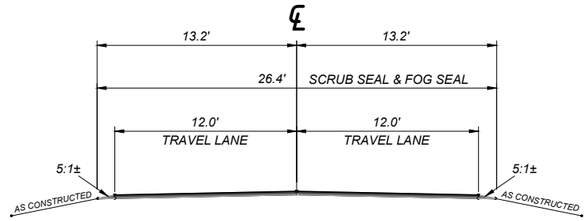
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TYPICAL SECTION NO. 5

MAINLINE

1333+58.50 TO 1741+88.00
1741+88.00 TO 1743+88.00 TRANS. TYP. SECT. NO. 5 TO NO. 6

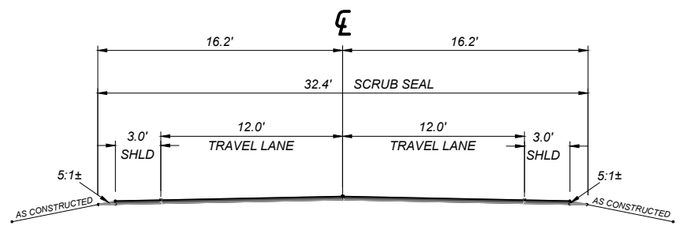


QUANTITIES				
UNIT	AGGREGATE: SCRUB SEAL COVER (TYPE I)	UNIT	BITUMINOUS MATERIAL: SCRUB SEAL EMULSION	BITUMINOUS MATERIAL: EMULSIFIED ASPHALT FOG SEAL
AREA square feet		square yards PER STATION		293
cubic yards PER STATION		tons PER STATION	0.52	
tons PER STATION		gals. PER STATION		22
square yards PER STATION	293			

TYPICAL SECTION NO. 6

MAINLINE

1743+88.00 TO 1773+10.50
1773+10.50 EOP



QUANTITIES				
UNIT	AGGREGATE: SCRUB SEAL COVER (TYPE I)	UNIT	BITUMINOUS MATERIAL: SCRUB SEAL EMULSION	BITUMINOUS MATERIAL: EMULSIFIED ASPHALT FOG SEAL
AREA square feet		square yards PER STATION		360
cubic yards PER STATION		tons PER STATION	0.64	
tons PER STATION		gals. PER STATION		27
square yards PER STATION	360			

SHEET NO. 05

TYPICAL SECTIONS

PROJECT NAME: BROWNING - NORTH
COUNTY: GLACIER COUNTY
PROJECT ID: STPS 464-1(19)0
UPN: 10246000

CHECKED BY: J. SABOL
REVIEWED BY: R. SNYDER
DESIGNED BY: K. LABONDE 12/5/2022
10246000RDTYP001.DWG

MONTANA Department of Transportation

ROAD PLANS

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SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE I	BITUMINOUS MATERIAL tons SCRUB SEAL EMULSION	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT FOG SEAL	REMARKS
2+00.00	65+58.00	6,358.00	6,358.00				33,888	60.4	2,543	TYP. NO. 1
65+58.00	69+78.00	420.00	420.00				1,726	3.1	130	TYP. NO. 2
69+78.00	71+78.00	200.00	200.00				693	1.2	52	TRANS. TYP. NO. 2 TO TYP. NO. 3
71+78.00	121+44.00	4,966.00	4,966.00				14,004	24.8	1,043	TYP. NO. 3
121+44.00	123+44.00	200.00	200.00				609	1.1	46	TRANS. TYP. NO. 3 TO TYP. NO. 4
123+44.00	236+85.32 BE	11,341.32	11,341.32				37,086	65.8	2,853	TYP. NO. 4
236+85.32 BE	238+60.32 BE	175.00			175.00	BRIDGE				
238+60.32 BE	848+47.24 BE	60,986.92	60,986.92				199,427	353.7	15,247	TYP. NO. 4
848+47.24 BE	849+18.24 BE	71.00			71.00	BRIDGE				
849+18.24 BE	1156+01.34 BE	30,683.10	30,683.10				100,334	178.0	7,671	TYP. NO. 4
1156+01.34 BE	1156+94.34 BE	93.00			93.00	BRIDGE				
1156+94.34 BE	1331+58.50	17,464.16	17,464.16				57,108	101.3	4,366	TYP. NO. 4
1331+58.50	1333+58.50	200.00	200.00				620	1.1	47	TRANS. TYP. NO. 4 TO TYP. NO. 5
1333+58.50	1741+88.00	40,829.50	40,829.50				119,630	212.3	8,982	TYP. NO. 5
1741+88.00	1743+88.00	200.00	200.00				654	1.2	49	TRANS. TYP. NO. 5 TO TYP. NO. 6
1743+88.00	1773+10.50	2,922.50	2,922.50				10,521	18.7	789	TYP. NO. 6
						ADDITIONAL SURFACING	3,352	6.0	252	
TOTAL		**177,110.50**	**176,771.50**	~	**339.00**		**579,652**	**1,028.7**	**44,070**	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE I	BITUMINOUS MATERIAL tons SCRUB SEAL EMULSION	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT FOG SEAL	REMARKS
0+00.00	2+00.00	200.00	200.00			BOP CONN.	1,278	2.3	96	SEE BOP CONNECTION DETAIL
						ACCELERATION LANE	417	0.7	31	SEE STARR SCHOOL RD DETAIL
						STARR SCHOOL RD	1,007	1.8	76	SEE STARR SCHOOL RD DETAIL
1773+10.50	1774+10.50	100.00	100.00			EOP CONN.	650	1.2	49	SEE EOP CONNECTION DETAIL
SUBTOTAL		~	~	~	~		**3,352**	**6.0**	**252**	

SHEET NO. 06

SUMMARY FRAMES

PROJECT NAME BROWNING - NORTH
COUNTY GLACIER COUNTY
PROJECT ID STPS 464-1(19)0
UPN 10246000

CHECKED BY J. SABOL
REVIEWED BY R. SNYDER 12/5/2022
DESIGNED BY K. LABONDE 12/5/2022
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MONTANA Department of Transportation
ROAD DESIGN
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PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	1,224		1,224
STRIPING - YELLOW PAINT	gallon	532		532
WORDS & SYMBOLS - WHITE PAINT	gallon	13		13
WORDS & SYMBOLS - YELLOW PAINT	gallon	1		1
STRIPING - WHITE EPOXY	gallon		1,633	1,633
STRIPING - YELLOW EPOXY	gallon		710	710
WORDS & SYMBOLS - WHITE EPOXY	gallon		17	17
WORDS & SYMBOLS - YELLOW EPOXY	gallon		2	2
CURB MARKING - YELLOW EPOXY	gallon		12	12

BASED ON ONE APPLICATION

BRIDGE QUANTITIES

MDT STRUCTURE ID	NBI STRUCTURE ID	FEATURE CROSSED	POLYMER OVERLAY	CLASS A DECK REPAIR	DECK CRACK SEAL	REMARKS
			sq. yards	sq. yards	sq. yards	
06830	S00464004+06001	CUT BANK CREEK	551	35		POLYMER OVERLAY AND DECK REPAIR ONLY
06831	S00464016+09001	SOUTH FORK MILK RIVER			220	DECK CRACK SEAL ONLY
06832	S00464023+09171	DRY FORK MILK RIVER	345	5		POLYMER OVERLAY AND DECK REPAIR ONLY
TOTAL	~	~	896	40	220	

GUARDRAIL

STATION		linear feet				each				REMARKS
		REMOVE GUARDRAIL		MGS GUARDRAIL		MGS ONE-WAY DEPARTURE TERMINAL SECTION		MASH W-BEAM TERMINAL SECTION		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
NEW RAIL										
1746+50.00	1753+00.00			600.0		1		1		
1746+00.00	1753+25.00				675.0		1		1	
REMOVE RAIL										
1746+50.00	1753+00.00	650.0								REMOVE EXISTING GUARDRAIL AND TERMINAL SECTIONS
1746+00.00	1753+25.00		725.0							REMOVE EXISTING GUARDRAIL AND TERMINAL SECTIONS
SUBTOTAL		650.0	725.0	600.0	675.0	1	1	1	1	
TOTAL		1,375.0		1,275.0		2		2		

SHEET NO. 07

SUMMARY FRAMES

PROJECT NAME: BROWNING - NORTH
COUNTY: GLACIER COUNTY
PROJECT ID: STPS 464-1(19)0
UPN: 10246000

	CHECKED BY	REVIEWED BY	DESIGNED BY
	J. SABOL	R. SNYDER	K. LABONDE
	12/05/2022	10246000RDSUM001.DWG	

MONTANA Department of Transportation

ROAD PLANS

4/19/2023 4:26 PM

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BEGINNING OF PROJECT CONNECTION

STA. 0+00.00 TO STA. 2+00.00



END OF PROJECT CONNECTION

STA.1773+10.50 TO STA. 1774+10.50



SHEET NO.
08

CONNECTION DETAILS

PROJECT NAME BROWNING - NORTH
COUNTY GLACIER COUNTY
PROJECT ID STPS 464-1(19)0
UPN 10246000

DESIGNED BY K. LABONDE 12/5/2022
REVIEWED BY R.SNYDER
CHECKED BY J. SABOL

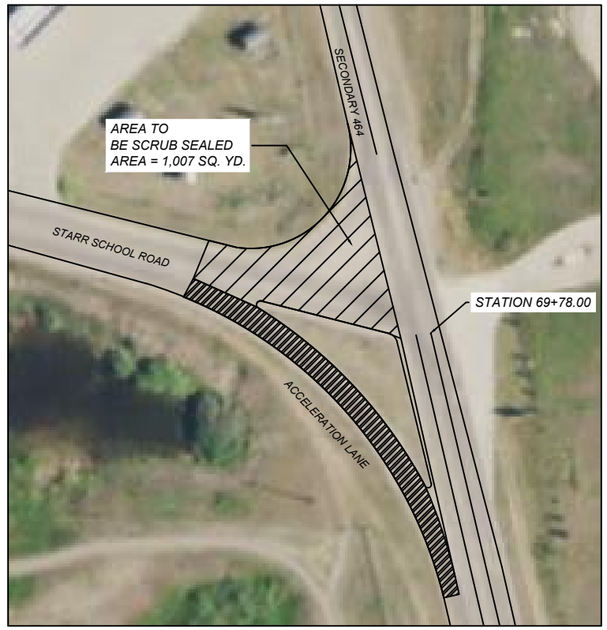
MONTANA
Department of Transportation

ROAD PLANS

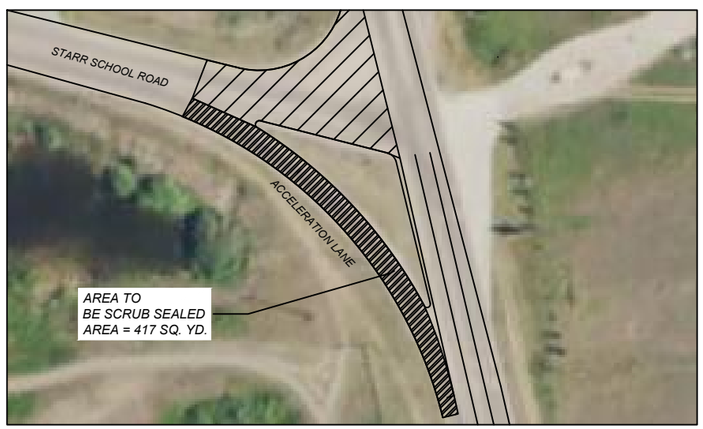
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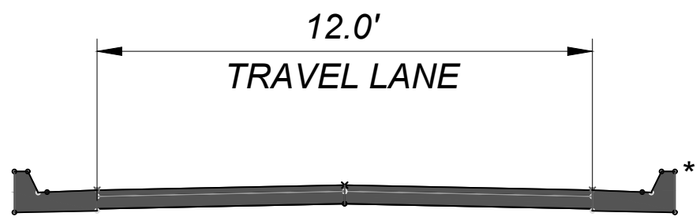
STARR SCHOOL ROAD CONNECTION



ACCELERATION LANE



ACCELERATION LANE TYPICAL



*CURB ON RIGHT IS ONLY AROUND THE TRAFFIC CHANNELIZING ISLAND

SHEET NO.
09

STARR SCHOOL ROAD DETAILS

PROJECT NAME: BROWNING - NORTH
COUNTY: GLACIER COUNTY
PROJECT ID: STPS 464-1(19)0
UPN: 10246000
DESIGNED BY: K. LABONDE 12/5/2022 10246000RDDET001.DWG
REVIEWED BY: R. SNYDER
CHECKED BY: J. SABOL

MONTANA Department of Transportation
ROAD PLANS

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SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET IV		SQ. FOOT
SIGNS-ALUM REFL SHEET XI	2,177.6	SQ. FOOT
SIGNS-ALUM SHEET INCR IV		SQ. FOOT
SIGNS-ALUM SHEET INCR XI	103.0	SQ. FOOT
OVERLAY-SHEET ALUMINUM		SQ. FOOT
POSTS-STEEL U SIGN	691	POUNDS
POLES-TREATED WOOD 4 IN	872	LINEAR FT.
POLES-TREATED WOOD 5 IN	164	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	1,043.0	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	885	EACH
DELINEATOR DES B		EACH
DELINEATOR DES C		EACH
DELINEATOR DES D	78	EACH
DELINEATOR DES E		EACH
DELINEATOR DES F	10	EACH
DELINEATOR DES G		EACH
DELINEATOR DES H		EACH
REMOVE SIGNS	120	EACH
REMOVE SIGNS-GUIDE	4	EACH
RESET SIGNS		EACH
PANEL DELINEATOR DES A	20	EACH
PANEL DELINEATOR DES F	20	EACH
FRANG SIGN POST BKWY-		EACH
FRANG SIGN POST BKWY-		EACH
DELINEATOR SNOWPOLE - DES A	15	EACH
TOP MOUNT W-BEAM DELINEATOR - WHITE	102	EACH
SQ TUBLR SLIP BASE BKWY-3 IN	19	EACH

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SIGN LOCATION AND SPECIFICATIONS

REF. 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	BREAK AWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
0.021 Lt.		(2) M1-4	24"x24"	XI			RSFO						4.0										1					
		M6-4	21"x15"	XI			RSFO						2.2															
		(89) M1-4	24"x24"	XI			RSFO						4.0															
		M6-4	21"x15"	XI			RSFO						2.2															
0.006 Rt.		M3-1	24"x12"	XI		10-0	4" Dia. POLE		13-4			7-0	3-0	2.0			14										
		(464) M1-12	24"x24"	XI										4.0														
0.014 Rt.		R1-1	36"x36"	XI	XI		RSFO						7.5										1					Mount Back to Back
		R5-1	30"x30"	XI	XI		RSFO						6.3															
0.042 Lt.		R3-8h	30"x30"	XI			RSFO						6.3										1					
0.061 Lt.		G464-0a	10'-0"x4'-0"	XI	XI	10-0	S5x10		x=14-10 y=15-9			7-0	3-6		40.0						306		X		1			
0.039 Rt.		(40) R2-1	24"x30"	XI			RSFO						5.0										1					
0.091 Lt.		D3 (2)	36"x10"	XI	XI	6-0	2-¼"&2-½" Sq. TUBE		11-5			7-0	3-0	2.5 2.5						91			★					NEW
		D3 (2)	42"x10"	XI	XI									2.9 2.9														NEW
		R1-1	30"x30"	XI	XI									5.2														NEW
0.166 Lt.		D3 (2)	36"x10"	XI	XI	6-0	2-½" Dia. Sq. TUBE		11-5			7-0	3-0	2.5 2.5						91			★	1				NEW
		D3 (2)	42"x10"	XI	XI									2.9 2.9														NEW
		R1-1	30"x30"	XI	XI									5.2														NEW
0.226 Lt.		D3 (2)	36"x10"	XI	XI	6-0	2-¼"&2-½" Sq. TUBE		11-5			7-0	3-0	2.5 2.5						91			★	1				NEW
		D3 (2)	42"x10"	XI	XI									2.9 2.9														NEW
		R1-1	30"x30"	XI	XI									5.2														NEW
0.281 Lt.		D3 (2)	36"x10"	XI	XI	6-0	2-¼"&2-½" Sq. TUBE		11-5			7-0	3-0	2.5 2.5						91			★	1				NEW
		D3 (2)	42"x10"	XI	XI									2.9 2.9														NEW
		R1-1	30"x30"	XI	XI									5.2														NEW
0.339 Rt.		R7-1a	12"x18"	XI	XI		RSFO						1.5										1					
0.345 Rt.		R1-1	30"x30"	XI	XI		RSFO						5.2										1					
0.341 Lt.		D3 (2)	36"x10"	XI	XI	6-0	2-¼"&2-½" Sq. TUBE		11-5			7-0	3-0	2.5 2.5						91			★					NEW
		D3 (2)	42"x10"	XI	XI									2.9 2.9														NEW
		R1-1	30"x30"	XI	XI									5.2														NEW
0.351 Lt.		D3 (2)	REMOVE																				1					5th AVE N
0.355 Lt.		R6-1L R6-1R	36"x12" 36"x12"	XI XI			2" Dia. Sq. TUBE		8-0			7-0	3-0	3.0 3.0						42				1				Mount Back to Back
0.461 Lt.		D3 (2)	36"x10"	XI	XI	6-0	2-¼"&2-½" Sq. TUBE		11-5			7-0	3-0	2.5 2.5						91			★					NEW
		D3 (2)	42"x10"	XI	XI									2.9 2.9														NEW
		R1-1	30"x30"	XI	XI									5.2														NEW

SIGNING LOCATIONS ARE APPROXIMATE.

FIELD PROJECT MANAGER TO FIELD ADJUST AS NECESSARY

RSFO = REPLACE SIGN FACE ONLY

MOUNTING HEIGHT REQUIREMENTS: MOUNTING HEIGHTS SHOWN REFER TO THE BOTTOM OF THE MAJOR PANEL. SEE DETAILED DRAWINGS 619-00 & 619-08.

3	MONTANA Department of Transportation	C:\DGN\10246000sisum001.dgn	Designer: Roger Schroeder 10/2022	SIGNING PLANS	BROWNING - North	STPS 464-1(19)0
2		1/11/2023	Checker: Nathan Styren ***			
1		5:44:09 AM CPS - U4044	Reviewed: *** ***	GLACIER COUNTY	UPN #10246000	S2

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

REF. 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
0.515 Rt.		D3 (2)	36"x10"	XI	XI	6-0		2-¼"&2-½" Sq. TUBE	11-5			7-0	3-0	2.5 2.5						91			★						NEW AUBREY Aubrey Rd
		D3 (2)	42"x10"	XI	XI	‖	‖	‖	‖			‖	‖	2.9 2.9															NEW DUCK LAKE Duck Lake Rd
		R1-1	30"x30"	XI	XI									5.2															NEW STOP
0.616 Lt.		D3 (2)	30"x10"	XI	XI	6-0		2-¼"&2-½" Sq. TUBE	11-5			7-0	3-0	2.1 2.1						91			★	1					NEW DETOX Detox Rd
		D3 (2)	42"x10"	XI	XI	‖	‖	‖	‖			‖	‖	2.9 2.9															NEW DUCK LAKE Duck Lake Rd
																													STOP
0.671 Rt.		(40) R2-1	30"x36"	XI		10-0		4" Dia. POLE	13-0			5-0	3-0	7.5			14							1					SPEED LIMIT 40
0.696 Lt.		(40) R2-1	30"x36"	XI		10-0		4" Dia. POLE	15-0			7-0	3-0	7.5			16							1					SPEED LIMIT 40
0.695 Rt.		D9-2L	30"x30"	XI	XI		RSFO							6.3										1					H
		D9-3pL	24"x6"	XI	XI		RSFO							1.0															
0.781 Lt.		D3 (2)	42"x10"	XI	XI	6-0		2-¼"&2-½" Sq. TUBE	11-5			7-0	3-0	2.9 2.9						91			★	1					NEW BLACKWEASEL Blackweasel Rd Hospital Dr?
		D3 (2)	42"x10"	XI	XI	‖	‖	‖	‖			‖	‖	2.9 2.9															NEW DUCK LAKE Duck Lake Rd
		R1-1	30"x30"	XI	XI									5.2															STOP
0.721 Lt.		D9-2L	30"x30"	XI	XI		RSFO							6.3										1					H
		D9-XpR	24"x6"	XI	XI		RSFO							1.0															
0.976 Lt.		D3 (2)	42"x10"	XI	XI	6-0		2-¼"&2-½" Sq. TUBE	11-5			7-0	3-0	2.9 2.9						91			★	1					NEW LAST STAR Last Star Rd
		D3 (2)	42"x10"	XI	XI	‖	‖	‖	‖			‖	‖	2.9 2.9															NEW DUCK LAKE Duck Lake Rd
		R1-1	30"x30"	XI	XI									5.2															STOP
0.195 Rt.		White Cross	By OTHERS				USE AS IS																						
0.761 Rt.		W1-7a	6'-0"x3'-6"	XI		15-0		5" Dia. POLE	x=14-8 y=14-8			7-0			21.0			16 16					X		1		FY		
1.000 Rt.		M.P. 1 D10-1	10"x18"	XI	XI	4-0		2 lb/ft STL-U	9-2			4-0	3-0	1.3 1.3								19		1					ONE MILE ONE MILE
1.171 Rt.		R3-8b	30"x30"	XI		10-0		4" Dia. POLE	14-9			5-0	3-0	6.3			16												ONLY ONLY
1.204 Rt.		I-5L	30"x30"	XI	XI		RSFO							6.3										1					
		D9-3pL	24"x6"	XI	XI		RSFO							1.0															
1.243 Lt.		(40) R2-1	24"x30"	XI		10-0		4" Dia. POLE	12-6			5-0	3-0	5.0			14							1					SPEED LIMIT 40
1.266 Lt.		R1-2	36"x33" x36"	XI		10-0		4" Dia. POLE	12-6			5-0	3-0	3.9			14							1					YIELD
1.291 Lt. Island		D3 (2)	42"x10"	XI	XI	6-0		2-¼"&2-½" Sq. TUBE	11-5			5-0	3-0	2.9 2.9						91			★	1					NEW STARR SCHOOL Starr School Rd
		D3 (2)	42"x10"	XI	XI	‖	‖	‖	‖			‖	‖	2.9 2.9															NEW DUCK LAKE Duck Lake Rd
		R1-1	30"x30"	XI	XI									5.2															STOP
1.349 Lt.		(40) R2-1	24"x30"	XI		10-0		4" Dia. POLE	12-6			5-0	3-0	5.0			14							1					SPEED LIMIT 40

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

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

★ = TELESCOPED SQUARE TUBES (2¼" & 2½") WITH SLIP BASE BREAKAWAY REQUIRED. MOUNTED IN HEAVY DUTY STUB.

RSFO = REPLACE SIGN FACE ONLY

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

3	MONTANA Department of Transportation	C:\DGN\10246000sisum001.dgn	Designer:	Roger Schroeder	10/2022	SIGNING PLANS	BROWNING - North / STPS 464-1(19)0
2		1/11/2023	Checker:	Nathan Styren	***		
1		5:44:13 AM CPS - U4044	Reviewed:	***	***	GLACIER COUNTY	UPN #10246000 / S3

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	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
1.562 Rt.	(70) R2-1	24"x30"	XI		10-0		4" Dia. POLE	15-0			5-7	3-0	7.5			16							1					SPEED LIMIT 70
	R2-3b	24"x18"	XI										3.0															NIGHT 65
1.563 Lt.	(50) R2-1	24"x30"	XI		10-0		4" Dia. POLE	12-6			5-0	3-0	5.0			14							1					SPEED LIMIT 50
1.597 Rt.	(Truck 65) R2-2a	24"x30"	XI		10-0		4" Dia. POLE	12-6			5-0	3-0	5.0			14							1					TRUCK SPEED LIMIT 65
1.761 Lt.	(50) W3-5	36"x36"	XI	XI	10-0		4" Dia. POLE	14-7			5-0	3-0	9.0			16							1					S.L. 50 AHEAD; Remove R2-5a
2.000 Rt.	M.P. 2 D10-1 (2)	10"x18"	XI	XI	4-0		2 lb/ft STL-U	9-2			4-0	3-0	1.3 1.3								19		1					2 MILE 2
2.025 Lt.	D3 (2)	42"x10"	XI		6-0		4" Dia. POLE	12-10			7-0	3-0	2.9 2.9			14							1					NEW McDONALD Blevens Trl
	D3 (2)	42"x10"	XI	XI									2.9 2.9															NEW DUCK LAKE Duck Lake Rd
	R1-1	30"x30"	XI	XI									5.2															STOP
2.558 Rt.	W2-2R	30"x30"	XI		10-0		4" Dia. POLE	13-4			5-4	3-0	6.3			14							1				FY	
	W16-8	36"x15"	XI										3.8															BOARDING SCHOOL RD Boarding School Rd
2.680 Lt.	W1-7a	6'-0"x3'-6"	XI		10-0		5" Dia. POLE	x=14-8 y=14-8			7-0			21.0			16 16					X		1		FY	
2.685 Rt.	D3 (2)	36"x18"	XI	XI	6-0		4" Dia. POLE	13-6			7-0	3-0	4.5 4.5			14											NEW BOARDING SCHOOL RD Boarding School Rd
	D3 (2)	42"x10"	XI	XI									2.9 2.9														NEW DUCK LAKE Duck Lake Rd
	R1-1	30"x30"	XI	XI									5.2														NEW STOP
2.785 Lt.	W2-2L	30"x30"	XI		10-0		4" Dia. POLE	13-4			5-4	3-0	6.3			14							1				FY	
	W16-8	36"x15"	XI										3.8															BOARDING SCHOOL RD Boarding School Rd
2.965 Lt.	R1-1	30"x30"	XI	XI	6-0		4" Dia. POLE	11-6			5-0	3-0	5.2			12							1					STOP @ Blevins
3.000 Rt.	M.P. 3 D10-1 (2)	10"x18"	XI	XI	4-0		2 lb/ft STL-U	9-2			4-0	3-0	1.3 1.3								19		1					3 MILE 3
3.274 Rt.	D3 (2)	36"x18"	XI	XI	6-0		4" Dia. POLE	11-6			5-0	3-0	4.5 4.5			14							1					NEW BOARDING SCHOOL RD Bear Paw Rd
	D3 (2)	42"x10"	XI	XI									2.9 2.9															NEW DUCK LAKE Duck Lake Rd
	R1-1	30"x30"	XI	XI									5.2															STOP
3.420 Rt.	R1-1	30"x30"	XI	XI									5.2			12							1					STOP @ Bear Paw N
4.000 Rt.	M.P. 4 D10-1 (2)	10"x18"	XI	XI	4-0		2 lb/ft STL-U	9-2			4-0	3-0	1.3 1.3								19		1					4 MILE 4
4.439 Lt.	W11-4	30"x30"	XI		2-0		4" Dia. POLE	13-4			5-0	3-0	6.3			14							1					Behind Guardrail RANGE CATTLE Range Cattle
4.476 Rt.	N6-2	42"x18"	XI	XI	2-0		4" Dia. POLE	10-6			5-0	3-0	5.3			12							1					Behind Guardrail CUT BANK CREEK Cut Bank Crk
4.524 Lt.	N6-2	42"x18"	XI	XI	2-0		4" Dia. POLE	10-6			5-0	3-0	5.3			12							1					Behind Guardrail CUT BANK CREEK Cut Bank Crk

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

★ = TELESCOPED SQUARE TUBES (2¼" & 2½") WITH SLIP BASE BREAKAWAY REQUIRED. MOUNTED IN HEAVY DUTY STUB.

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

RSFO = REPLACE SIGN FACE ONLY

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

3	MONTANA Department of Transportation	C:\DGN\10246000sisum002.dgn	Designer:	Roger Schroeder	10/2022	SIGNING PLANS		BROWNING - North	STPS 464-1(19)0
2		1/11/2023	Checker:	Nathan Styren	***			UPN #10246000	S4
1		5:44:26 AM CPS - U4044	Reviewed:	***	***	GLACIER COUNTY			

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

REF. 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
4.829 Lt.		D3 (2)	24"x10"	XI		6-0		4" Dia. POLE	12-10			5-0	3-0	1.7 1.7			14							1					NEW BEARHEAD XS Bearhead
		D3 (1)	42"x10"	XI	XI									2.9															NEW DUCK LAKE XS Duck Lake Rd
		R1-1	30"x30"	XI	XI									5.2															STOP
4.889 Lt.		S3-1a	30"x30"	XI	XI	10-0		4" Dia. POLE	13-4			5-0	3-0	6.3			14							1				FYG	
5.000 Rt.		M.P. 5 D10-1 (2)	10"x18"	XI	XI	4-0		2 lb/ft STL-U	9-2			4-0	3-0	1.3 1.3									19	1					5 MILE
6.000 Rt.		M.P. 6 D10-1 (2)	10"x18"	XI	XI	4-0		2 lb/ft STL-U	9-2			4-0	3-0	1.3 1.3									19	1					6 MILE
7.000 Rt.		M.P. 7 D10-1 (2)	10"x18"	XI	XI	4-0		2 lb/ft STL-U	9-2			4-0	3-0	1.3 1.3									19	1					7 MILE
8.000 Rt.		M.P. 8 D10-1 (2)	10"x18"	XI	XI	4-0		2 lb/ft STL-U	9-2			4-0	3-0	1.3 1.3									19	1					8 MILE
9.000 Rt.		M.P. 9 D10-1 (2)	10"x18"	XI	XI	4-0		2 lb/ft STL-U	9-2			4-0	3-0	1.3 1.3									19	1					9 MILE
10.000 Rt.		M.P. 10 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9									20	1					10 MILE
10.642 Rt.		S3-1a	30"x30"	XI	XI	10-0		4" Dia. POLE	13-6			5-0	3-0	6.3			14							1				FYG	
11.000 Rt.		M.P. 11 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9									20	1					11 MILE
11.531 Lt.		S3-1a	30"x30"	XI	XI	10-0		4" Dia. POLE	13-6			5-0	3-0	6.3			14							1				FYG	
12.000 Rt.		M.P. 12 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9									20	1					12 MILE
																								1					
12.250 Lt.		W7-1b	30"x30"	XI		10-0		4" Dia. POLE	13-5			5-7	3-0	6.3			14							1					
		W7-1a	24"x18"	XI										3.0															HILL
13.000 Rt.		M.P. 13 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9									20	1					13 MILE
13.957 Rt.		White Cross	By OTHERS			USE AS IS																		1					
14.000 Rt.		M.P. 14 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9									20	1					14 MILE
14.000 Rt.		N7-1	36"x48"	XI	XI	20-0		5" POLE	17-2			5-1	3-6	12.0										X 1					
		N7-1p	36"x12"	XI	XI									3.0				18											Adopt A Highway Litter Control Next 2 Miles IN MEMORY OF CHICO BROWN
14.228 Rt.		W7-1b	30"x30"	XI		10-0		4" Dia. POLE	13-5			5-0	3-0	6.3			14							1					IN MEMORY OF CHICO BROWN
15.000 Rt.		M.P. 15 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9									20	1					15 MILE
15.490 Rt.		S3-1a	30"x30"	XI	XI	10-0		4" Dia. POLE	13-6			5-0	3-0	6.3			14							1				FYG	
15.650 Rt.		W11-4	30"x30"	XI		10-0		4" Dia. POLE	13-5			5-0	3-0	6.3			14							1					
15.653 Lt.		D3 (2)	42"x10"	XI		6-0		4" Dia. POLE	12-10			5-0	3-0	2.9 2.9			14												NEW McDONALD RD McDonald Rd
		D3 (2)	42"x10"	XI	XI									2.9 2.9															NEW DUCK LAKE XS Duck Lake Rd
		R1-1	30"x30"	XI	XI									5.2															STOP

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

★ = TELESCOPED SQUARE TUBES (2¼" & 2½") WITH SLIP BASE BREAKAWAY REQUIRED. MOUNTED IN HEAVY DUTY STUB.

TYPE XI

FYG = FLUORESCENT YELLOW-GREEN SHEETING REQUIRED.

3	MONTANA Department of Transportation	C:\DGN\10246000sisum002.dgn	Designer:	Roger Schroeder	10/2022	SIGNING PLANS		BROWNING - North	STPS 464-1(19)0
2		1/11/2023	Checker:	Nathan Styren	***				
1		5:44:30 AM CPS - U4044	Reviewed:	***	***	GLACIER COUNTY		UPN #10246000	S5

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

REF. 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
15.846 Rt.		D3 (2)	42"x10"	XI		6-0		4" Dia. POLE	12-10			5-0	3-0	2.9 2.9			14												NEW BURD RANCH Burd Ranch Rd
		D3 (2)	42"x10"	XI	XI									2.9 2.9															NEW DUCK LAKE EB Duck Lake Rd
		R1-1	30"x30"	XI	XI									5.2															STOP
15.986 Lt.		W11-4	30"x30"	XI		10-0		4" Dia. POLE	13-5			5-0	3-0	6.3			14							1					
16.000 Rt.		M.P. 16 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20		1					16 MILE MILE
16.000 Lt.		N7-1	36"x48"	XI	XI	20-0		5" Dia. POLE	17-2			5-1	3-6	12.0									X	1					
		N7-1p	36"x12"	XI	XI									3.0				18											Remove from 15.943 IN MEMORY OF CHICO BROWN
16.938 Rt.		OM1-1	18"x18"	XI		6-0		2 lb/ft STL-U	10-5			4-0	3-0	2.3								20		1					
16.953 Rt.		OM1-1	18"x18"	XI		6-0		2 lb/ft STL-U	10-5			4-0	3-0	2.3								20		1					
17.000 Rt.		M.P. 17 D10-2 (2)	10"x18"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20		1					17 MILE MILE
18.000 Rt.		M.P. 18 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20		1					18 MILE MILE
18.747 Lt.		D3 (2)	42"x10"	XI		6-0		4" Dia. POLE	12-10			5-0	3-0	2.9 2.9										1					NEW LIVERMORE Livermore Rd
		D3 (2)	42"x10"	XI	XI									2.9 2.9															NEW DUCK LAKE EB Duck Lake Rd
		R1-1	30"x30"	XI	XI									5.2															STOP
19.000 Rt.		M.P. 19 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20		1					19 MILE MILE
20.000 Rt.		M.P. 20 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20		1					20 MILE MILE
21.000 Rt.		M.P. 21 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20		1					21 MILE MILE
21.636 Lt.		R1-1	30"x30"	XI	XI	6-0		4" Dia. POLE	11-8			5-0	3-0	5.2			12							1					STOP
22.000 Rt.		M.P. 22 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20		1					22 MILE MILE
22.580 Lt.		R1-1	30"x30"	XI	XI	6-0		4" Dia. POLE	11-8			5-0	3-0	5.2			12							1					STOP Hilton Rd
23.000 Rt.		M.P. 23 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20		1					23 MILE MILE
23.804 Rt.		S3-1a	30"x30"	XI	XI	10-0		4" Dia. POLE	13-6			5-0	3-0	6.3			14							1				FYG	
23.879 Rt.		W1-2L	30"x30"	XI		10-0		4" Dia. POLE	13-10			5-7	3-0	6.3			14							1				FY	
		W13-1	18"x18"	XI										2.3														FY	50 MPH
23.929 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE	12-4			5-0	3-0	5.0 5.0			14							1				FY	
23.963 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE	12-4			5-0	3-0	5.0 5.0			14							1				FY	
24.000 Rt.		M.P. 24 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20		1					24 MILE MILE
24.026 Rt.		R1-1	30"x30"	XI	XI	6-0		4" Dia. POLE	11-8			5-0	3-0	5.2			12							1					STOP Galbreath Rd
24.030 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE	12-4			5-0	3-0	5.0 5.0			14							1				FY	
24.055 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE	12-4			5-0	3-0	5.0 5.0			14							1				FY	
24.091 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE	12-4			5-0	3-0	5.0 5.0			14							1				FY	
24.121 Rt.		W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE	12-4			5-0	3-0	5.0 5.0			14							1				FY	

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.

3	MONTANA Department of Transportation	C:\DGN\10246000sisum002.dgn	Designer: Roger Schroeder	10/2022	SIGNING PLANS	BROWNING - North	STPS 464-1(19)0
2		1/11/2023	Checker: Nathan Styren	***			
1		5:44:34 AM CPS - U4044	Reviewed: ***	***	GLACIER COUNTY	UPN #10246000	S6

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	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
24.156 Rt.	W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE	12-4			5-0	3-0	5.0 5.0			14												
24.156 Rt.	W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE	12-4			5-0	3-0	5.0 5.0			14												
24.186 Rt.	R1-1	30"x30"	XI	XI	6-0		4" Dia. POLE	11-8			5-0	3-0	5.2			12						1						Galbreath Rd
24.191 Rt.	W1-8 (2)	24"x30"	XI		10-0		4" Dia. POLE	12-4			5-0	3-0	5.0 5.0			14												
24.239 Lt.	W1-2R	30"x30"	XI		10-0		4" Dia. POLE	13-10			5-7	3-0	6.3			14						1						
	W13-1	18"x18"	XI										2-3															50 MPH
24.379 Lt.	S3-1a	30"x30"	XI	XI	10-0		4" Dia. POLE	13-6			5-0	3-0	6.3			14						1				FYG		
25.000 Rt.	M.P. 25 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20	1						
26.000 Rt.	M.P. 26 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20	1						
27.000 Rt.	M.P. 27 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20	1						
28.000 Rt.	M.P. 28 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20	1						
28.547 Rt.	W7-1b	30"x30"	XI		10-0		4" Dia. POLE	13-5			5-0	3-0	6.3			14						1						
29.000 Rt.	M.P. 29 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20	1						
30.000 Rt.	M.P. 30 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20	1						
30.375 Rt.	MT Old West	By OTHERS																										Montana Old West CAMPING
30.425 Rt.	D3 (2)	36"x18"	XI		6-0		5" Dia. POLE	14-0			5-0	3-0	4.5 4.5			14						1						W Shore Duck Lake Rd
	D3 (2)	42"x10"	XI	XI									2.9 2.9														NEW	Duck Lake Rd
	R1-1	30"x30"	XI	XI									5.2															
30.380 Rt.	MT Old West Camping	By OTHERS																										Montana Old West Camping
30.428 Lt.	PARK Cabins	By OTHERS																										PARK Cabins
30.430 Lt.	Billboard	By OTHERS																										Billboard Misc
30.466 Lt.	MT Old West	By OTHERS																										Montana Old West CAMPING
30.796 Rt.	S3-1a	30"x30"	XI	XI	10-0		4" Dia. POLE	13-6			5-0	3-0	6.3			14						1				FYG		
31.000 Rt.	M.P. 31 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U	9-11			4-0	3-0	1.9 1.9								20	1						
31.000 Rt.	N7-1	36"x48"	XI	XI	10-0		5" Dia. POLE	16-6			7-0	3-6	12.0				18					X 1						IN MEMORY OF SUZIE FITZGERALD
	N7-1p	36"x12"	XI	XI									3.0															
31.021 Rt.	(55) W3-5	24"x30"	XI	XI	10-0		4" Dia. POLE	13-6			7-0	3-0	7.5			14						1						
31.071 Lt.	(Truck 65) R2-6a	24"x30"	XI		10-0		4" Dia. POLE	12-4			5-0	3-0	5-0			14						1						
31.106 Lt.	(70) R2-1	24"x30"	XI		10-0		4" Dia. POLE	13-0			5-7	3-0	5-0			14						1						
	R2-3b	24"x18"	XI										3.0															

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

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

TYPE XI
FYG = FLUORESCENT YELLOW-GREEN SHEETING REQUIRED.

3	MONTANA Department of Transportation	C:\DGN\10246000sisum003.dgn	Designer: Roger Schroeder	10/2022	SIGNING PLANS	BROWNING - North / STPS 464-1(19)0
2		1/11/2023	Checker: Nathan Styren	***		UPN #10246000 / S7
1		5:44:49 AM CPS - U4044	Reviewed: ***	***	GLACIER COUNTY	

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

REF. 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	BREAK AWAY	SIGNS: REMOVE	SIGNS: RESET	GUIDE: REMOVE	GUIDE: RESET	REMARKS
31.122 Rt.		(55) R2-1	24"x18"	XI		10-0		4" Dia. POLE		12-6		5-0	3-0	7.5										1					SPEED LIMIT 55
31.285 Lt.		S3-1a	30"x30"	XI	XI	10-0		4" Dia. POLE		13-6		5-0	3-0	6.3			14							1				FYG	
32.000 Rt.		M.P. 32 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U		9-11		4-0	3-0	1.9 1.9									20	1					32 MILE
32.233 Rt.		W8-8	REMOVE																					1					ROUGH ROAD
32.320 Lt.		Camping	By OTHERS																										Camping-Misc.
32.755 Lt.		W8-8	REMOVE																					1					ROUGH ROAD
32.784 Rt.		Leaning Tree	By OTHERS																										Leaning Tree
33.000 Rt.		M.P. 33 D10-2 (2)	10"x27"	XI	XI	4-0		2 lb/ft STL-U		9-11		4-0	3-0	1.9 1.9									20	1					33 MILE
33.000 Lt.		N7-1	36"x48"	XI	XI	20-0		5" Dia. POLE		17-2		5-1	3-6	12.0				18						X	1				About A Highway Lane Ended Next 2 Miles
		N7-1p	36"x12"	XI	XI	▮		▮		▮		▮	▮	3.0															IN MEMORY OF SUZIE FITSGERALD
33.001 Rt.		W7-1b	30"x30"	XI		10-0		4" Dia. POLE		13-10		5-7	3-0	6.3			14							1					
		W7-1a	24"x18"	XI		▮		▮		▮		▮	▮	3.0															HILL
33.025 Rt.		Cafe-Cabins	By Others																										Leaning Tree Cafe Campground & Cabins
33.140 Rt.		S3-1a	30"x30"	XI	XI	10-0		4" Dia. POLE		13-6		5-0	3-0	6.3			14							1				FYG	
33.185 Rt.		Post	REMOVE																					1					Behind Guardrail Post
33.230 Rt.		Post	REMOVE																					1					Behind Guardrail Post
33.337 Rt.		Post	REMOVE																					1					Post
33.403 Lt.		S3-1a	30"x30"	XI	XI	10-0		4" Dia. POLE		13-5		5-0	3-0	6.3			14							1				FYG	
33.470 Rt.		W2-4	30"x30"	XI		10-0		4" Dia. POLE		13-5		5-0	3-0	6.3			14							1					
33.550 Lt.		(55) R2-1	24"x30"	XI		10-0		4" Dia. POLE		12-6		5-0	3-0	5.0			14							1					SPEED LIMIT 55
33.599 Lt.		Park Cabins	By Others																										PARK Cabins
33.595 Lt.		Permit Required	By Others																										PERMIT REQUIRED
33.605 Rt.		Billboard	By OTHERS																										
33.626 Rt.		R1-1	30"x30"	XI	XI	6-0		4" Dia. POLE		11-8		5-0	3-0	5.2			12							1					Behind Guardrail STOP Intersection
33.641 @ T		W1-7a	6'-0"x3'-6"	XI		2-0		5" Dia. POLE		X=12-10 y=12-10		5-0	3-6		21.0			14 14					X		1				
														TOTALS	2,177.6	103.0	872	164		1,043.0		691	120	4				

RSFO = REPLACE SIGN FACE ONLY

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

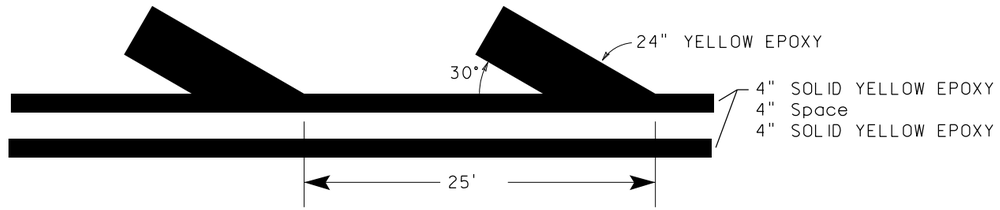
TYPE XI
FYG = FLUORESCENT YELLOW-GREEN SHEETING REQUIRED.

DELINEATION TABLE		
⊣	DESIGN "A"	885
⊣⊢	DESIGN "D"	78
⊣●	TOP MNT GRail White	102
◇	SNOWPOLE-DES "A"	15
▭	PANEL DES "A"	20
▭	PANEL DES "F"	20

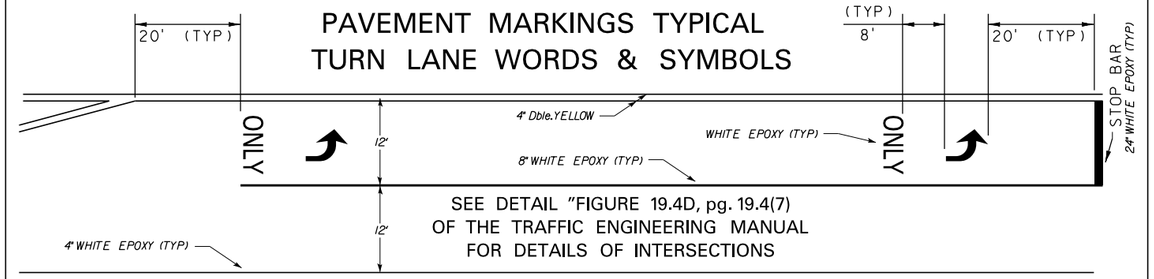
Top Mount
W-Beam Delineator-White
R.P. 33.181 to R.P. 33.317

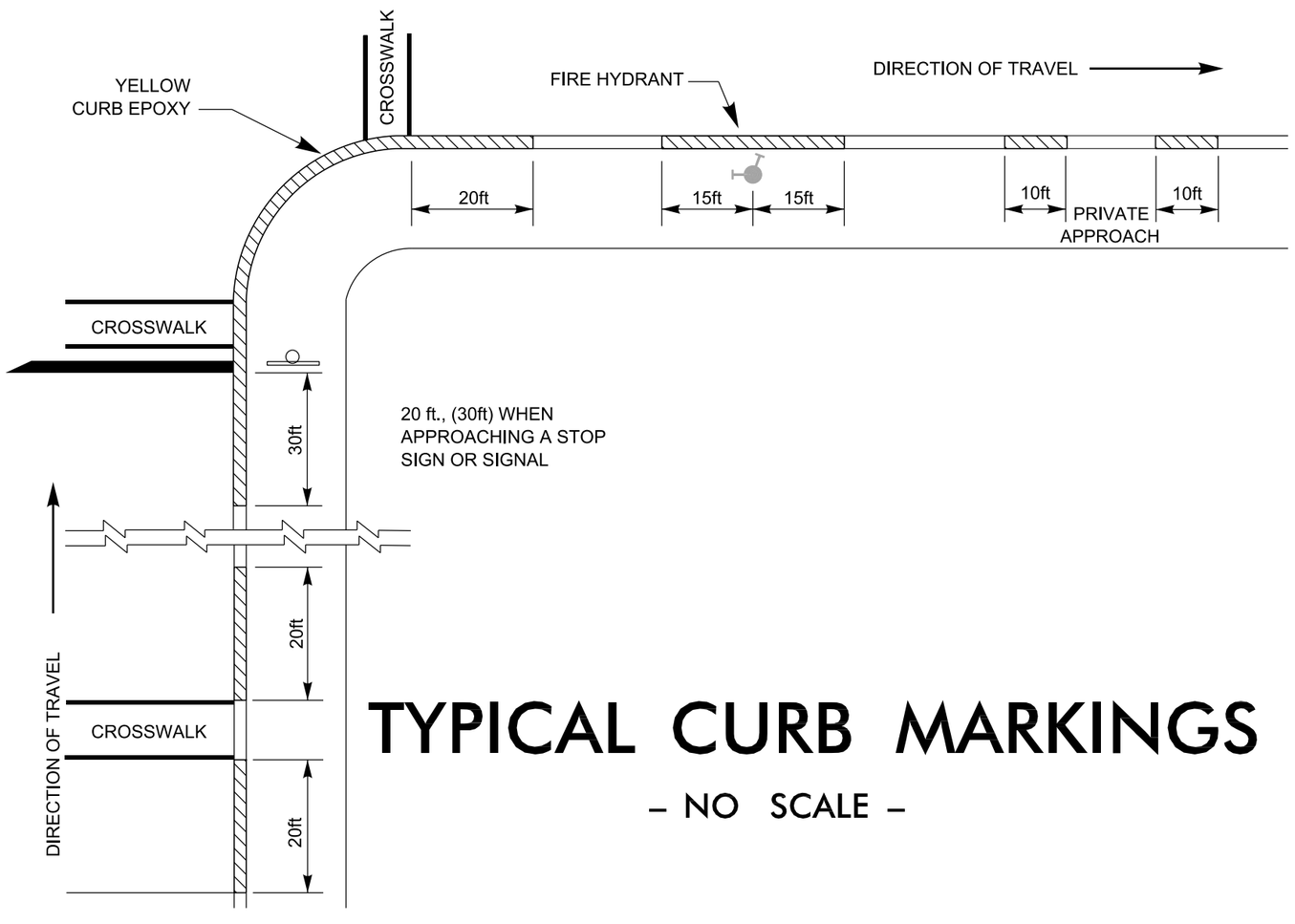
DETAILS

MEDIAN DETAIL "A"



MEDIAN DETAIL "B"



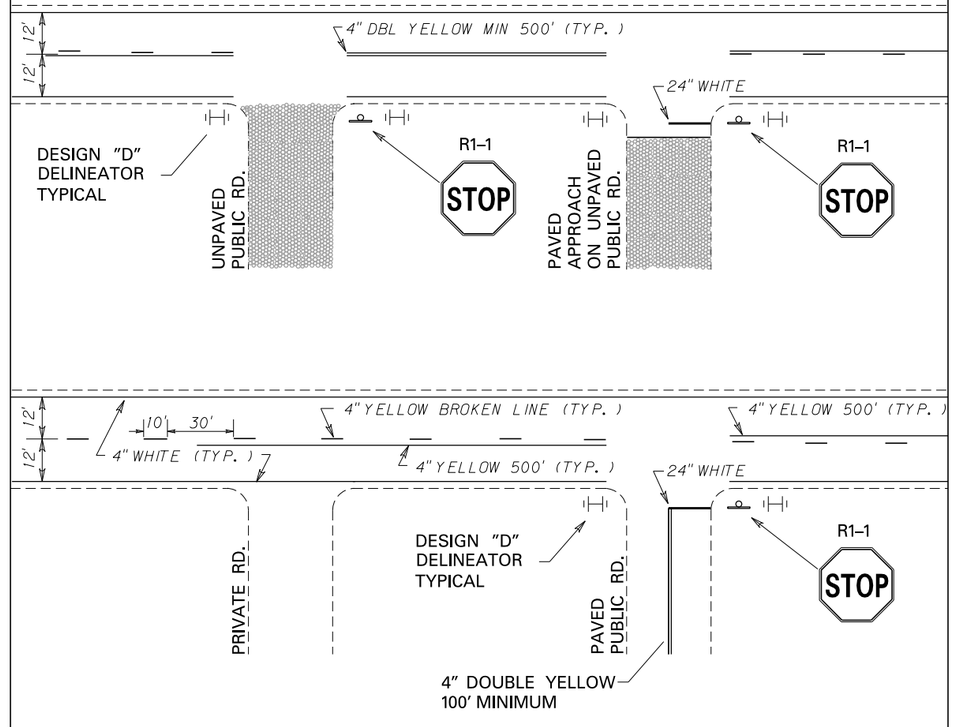


TYPICAL CURB MARKINGS

– NO SCALE –

TYPICAL PAVEMENT MARKINGS

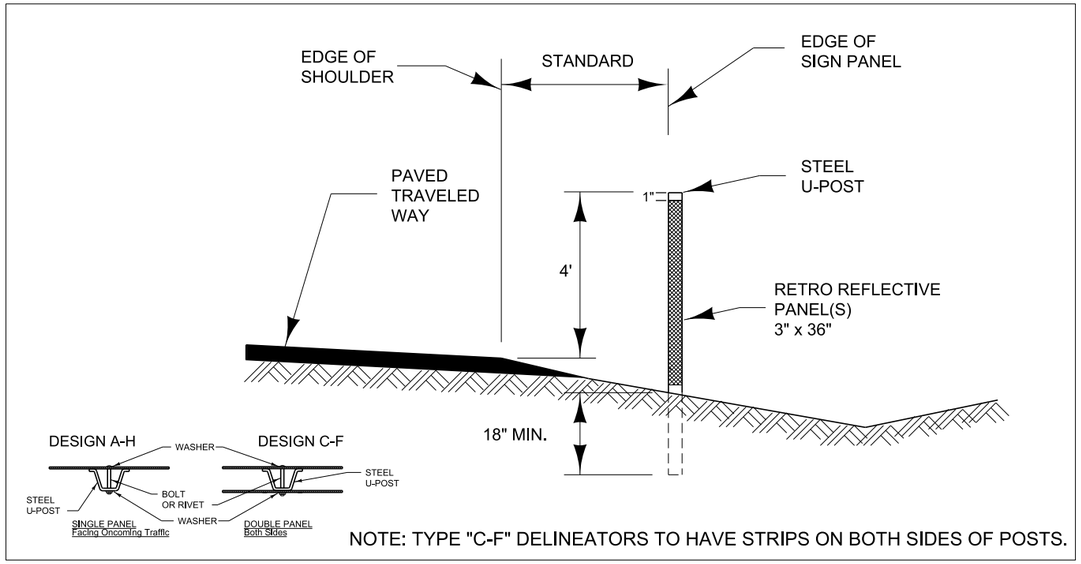
NO SCALE



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

ALL PAVEMENT MARKINGS TO BE EPOXY UNLESS OTHERWISE SPECIFIED.

DETAILS



NOTE: TYPE "C-F" DELINEATORS TO HAVE STRIPS ON BOTH SIDES OF POSTS.

NOTES:

FURNISH RETRO-REFLECTIVE SHEETING ACCORDING TO THE STANDARD SPECIFICATIONS FOR RETRO-REFLECTIVE SHEETING IV (HIGH INTENSITY). POSITION DELINEATOR FACES PERPENDICULAR TO THE TANGENT TO CURVE CENTERLINE.

MOUNT PANEL DELINEATOR ON METAL U-POSTS (1.12 LB./FT. MIN. AND 2 LB./FT. MAX.).

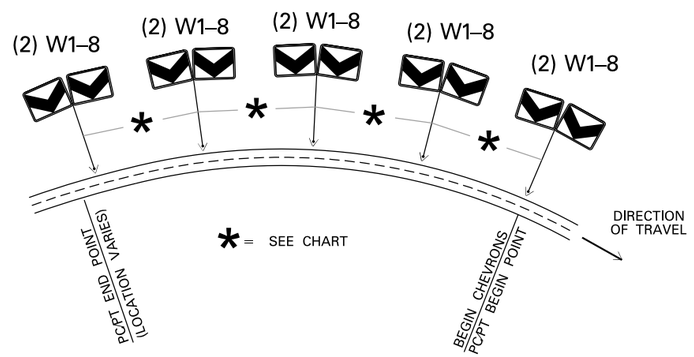
PLACE DELINEATORS AT A CONSTANT CLEARANCE DISTANCE FROM THE EDGE OF THE PAVEMENT EXCEPT WHERE GUARDRAIL OR OTHER OBSTRUCTIONS INTERFERE. ALIGN THE DELINEATORS WITH THE INSIDE EDGE OF THE OBSTRUCTION. CLEARANCE FOR DELINEATORS IS 6'-0" ON INTERSTATE HIGHWAYS, 4'-0" ON PRIMARY AND SECONDARY HIGHWAYS OR AS DETERMINED BY THE ENGINEER. THE STANDARD MOUNTING HEIGHT IS 4'-0" TO THE TOP OF THE POST. SUPPLY POST LENGTHS TO MAINTAIN THE PROPER MOUNTING HEIGHT AND A MINIMUM OF 18" EMBEDMENT.

SPACE DELINEATORS ACCORDING TO DETAILED DRAWING 619-36. UNDER NORMAL SPACING, SHOULD A DELINEATOR FALL WITHIN A CROSSROAD OR APPROACH, IT MAY BE MOVED IN EITHER DIRECTION A DISTANCE NOT TO EXCEED ONE QUARTER OF THE NORMAL SPACING. ELIMINATE DELINEATORS STILL FALLING IN SUCH AREAS.

MOUNT THE DELINEATOR PANEL(S) 1" BELOW THE TOP OF THE METAL U-POST.

CHEVRON PLACEMENT DETAIL

(GUIDANCE ONLY)



CURVE RADIUS	SIGN SPACING		R.P. CONVERSION
< 200′	40′	=	.008 +–
200′ – 400′	80′	=	.015 +–
401′ – 700′	120′	=	.023 +–
701′ – 1250′	160′	=	.030 +–
> 1250′	200′	=	.038 +–

1) SEE SPEC SHEET FOR CHEVRON PLACEMENT

2) USE BEGINNING OF CURVE LOCATION AS REFERENCE POINT TO INSTALL CHEVRONS (BEGIN POINT – ALWAYS ON OUTSIDE OF CURVE IN DIRECTION OF TRAVEL)

AWARD COPY



SEC. 464
CURVE @ M.P. 11.705 to M.P. 12.408

Measure R...

Primary Radius:	826.883ft
Primary Diameter:	1653.766ft
Secondary Radius:	
Secondary Diameter:	

F/outside – A/inside
400'–400'–275'–185'–90'

3	MONTANA Department of Transportation	C:\DGN\10246000sipln001.dgn	Designer:	Roger Schroeder	10/2022	SIGNING PLANS	BROWNING - North / STPS 464-1(19)0
2		1/11/2023	Checker:	Nathan Styren	***		
1		5:45:23 AM CPS – U4044	Reviewed:	***	***	GLACIER COUNTY	UPN #10246000 / S11