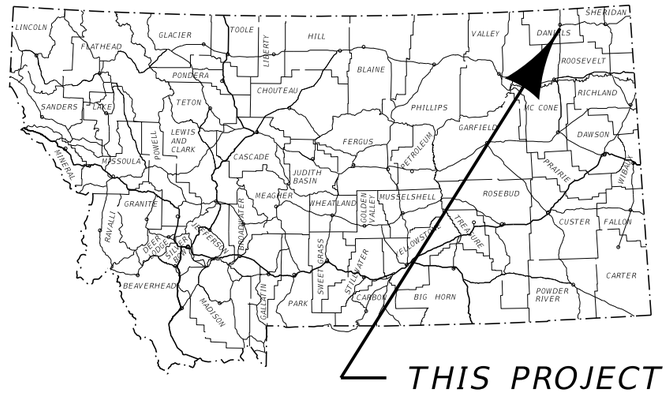
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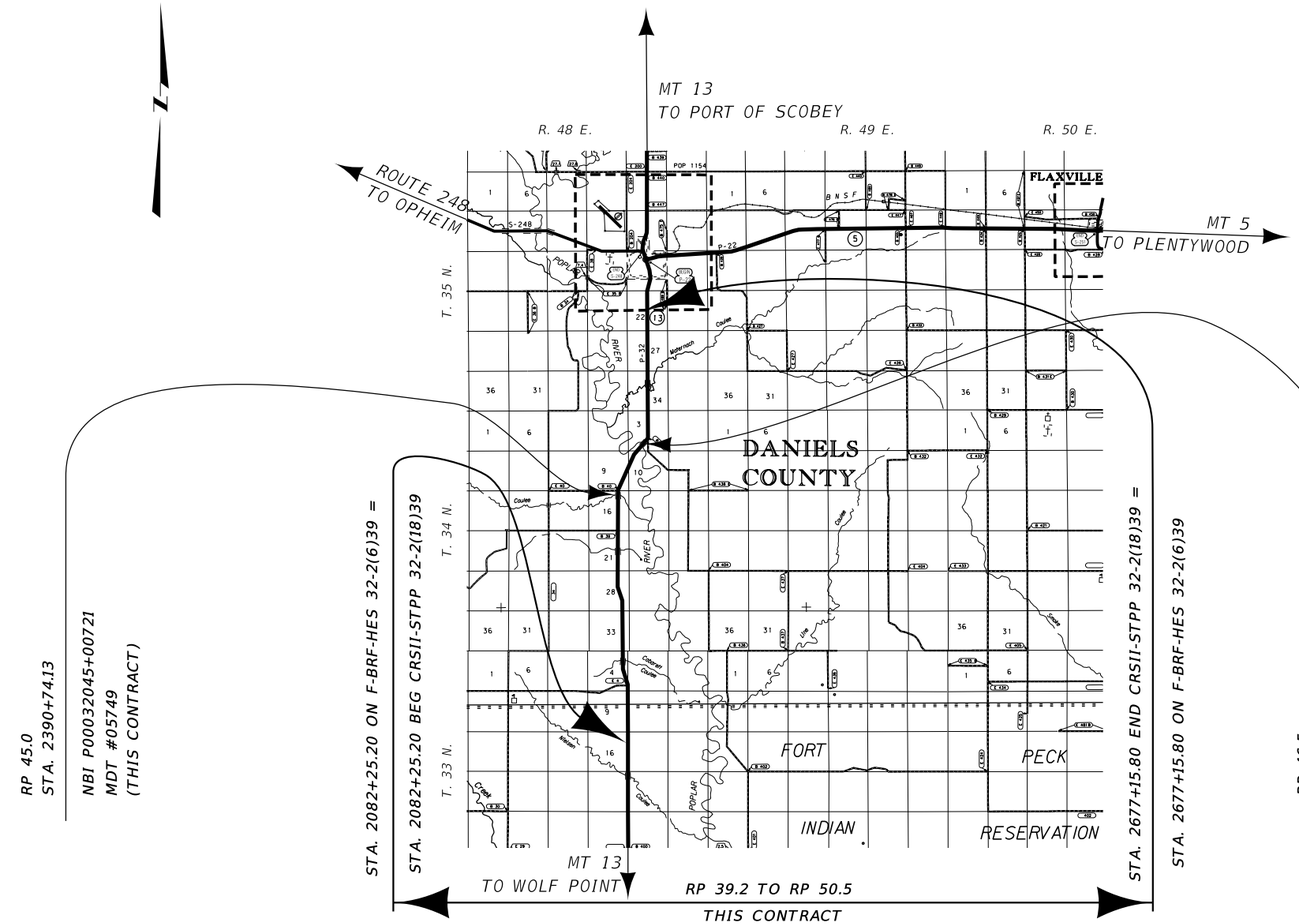
MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT CRSII-STPP 32-2(18)39
MILL, PLANT MIX OVERLAY, SEAL & COVER
SCOBEY - SOUTH
DANIELS COUNTY

PROJECT DESIGN DATA		
PRESENT 2018	A.D.T. =	590
LETTING 2022	A.D.T. =	630
DESIGN 2043	A.D.T. =	820
	D.H.V. =	120
	TRUCKS =	13.7%
	V. =	55 MPH
	18 KIP ESAL'S =	48
	GROWTH RATE =	1.3% ANNUALLY

LENGTH 11.3 MILES

SURFACING SOURCES –
CONTRACTOR FURNISHED



3	MDT	MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9458000rdtl001.dgn	DESIGNED BY J. BERAN	9/30/2019	ROAD PLANS
2			1/5/2022	REVIEWED BY M CAIL	11/5/2019	
			3:34:39 PM CPS – U3162	CHECKED BY J. SABOL	5/8/2020	UPN 9458000

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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

COMP. WEIGHT OF PL. MIX BIT. SURF.	= 3855 LBS. PER CUBIC YARD
ASPHALT CEMENT - GRADE S - 3/4" AGG.	= 5.0% 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 - FOG SEAL (RUMBLE STRIPS)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

APPROACHES

PROVIDE THE FOLLOWING SURFACING:
0.10' MILL AND 0.15' PLANT MIX OVERLAY

PLANT MIX SURFACE ALL PUBLIC & PRIVATE APPROACHES TO R/W.

QUANTITIES FOR ONE PRIVATE APPROACH:

AVERAGE LENGTH	= 44 linear feet
PLANT MIX BITUMINOUS SURF.	= 16 tons
ASPHALT CEMENT	= 0.8 tons
COLD MILLINGS	= 147 square yards

MILL & OVERLAY FARM APPROACHES FOR 12 FT.

QUANTITIES FOR ONE FARM FIELD APPROACH:

AVERAGE LENGTH	= 12 linear feet
PLANT MIX BITUMINOUS SURF.	= 7 tons
ASPHALT CEMENT	= 0.4 tons
COLD MILLINGS	= 58 square yards

MAILBOXES & MAILBOX TURNOUTS

COLD MILLING WILL DAYLIGHT INTO EXISTING MAILBOX PULLOUTS

PULLOUTS WILL BE OVERLAID, AND CHIP SEALED

ASBUILTS

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

F-BRF-HES 32-2(6)39

COLD MILLING

ANY MILLINGS NOT USED IN THIS PROJECT ARE TO BE STOCKPILED. STOCKPILE MILLINGS IN THE WEST FORK MAINTENANCE YARD. CONTACT CARSON BUFFINGTON AT (406) 653-6709 TWO WEEKS PRIOR TO ARRANGE FOR DELIVERY. ANY COSTS INCURRED ARE INCLUDED IN THE UNIT BID PRICE FOR COLD MILLINGS.

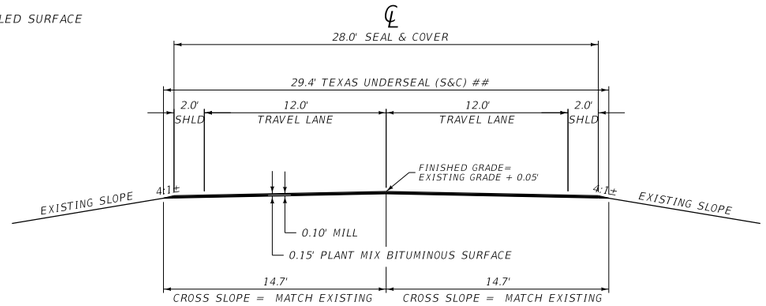
LINEAR DATA

LENGTH OF ROADWAY	FORT PECK RESERVATION	2 LANE RURAL	3,363.36 ft
LENGTH OF ROADWAY	NON-RESERVATION	2 LANE RURAL	55,862.49 ft
LENGTH OF BRIDGE	NON-RESERVATION	2 LANE RURAL	275.25 ft
TOTAL LENGTH OF	CRSII-STPP 32-2(18)39	2 LANE RURAL	59,501.10 ft

TYPICAL SECTION NO. 1

MAINLINE

PLACE UNDERSEAL ON MILLED SURFACE



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUM. MATERIAL		COLD MILLING
	COVER #	PLANT MIX		ASPHALT CEMENT	SEAL #	
AREA square feet		4.31	square yards PER STATION		638	327
cubic yards PER STATION		16.0	tons PER STATION	1.54	1.14	
tons PER STATION		30.8	gallons PER STATION			
square yards PER STATION	638					

INCLUDES TEXAS UNDERSEAL QUANTITIES

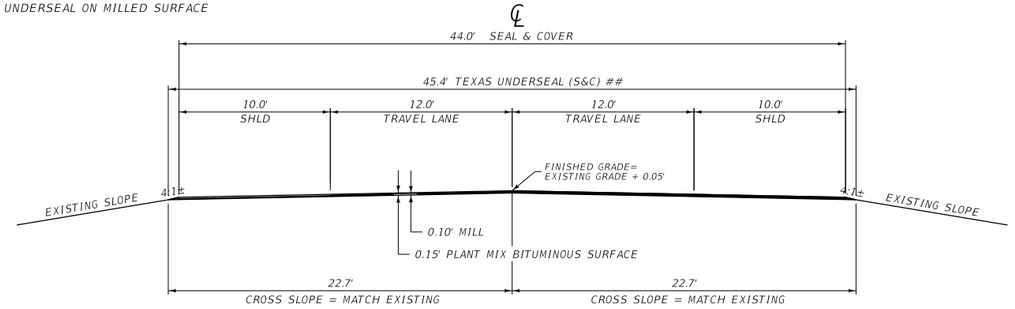
2082+25.20	TO	2115+88.56	
2115+88.56	TO	2153+07.40	BK
2153+04.00 AH	TO	2182+27.20	BK
2182+30.10 AH	TO	2260+55.70	BK
2260+52.80 AH	TO	2282+84.60	BK
2282+88.20 AH	TO	2289+11.70	BK
2289+02.20 AH	TO	2390+30.50	BE
2391+17.75 BE	TO	2409+62.90	BK
2409+66.50 AH	TO	2462+88.60	BK
2462+87.60 AH	TO	2472+33.00	BE
2474+21.00 BE	TO	2491+34.30	BK
2491+31.30 AH	TO	2668+65.50	
2668+65.50	TO	2670+65.50	

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

TYPICAL SECTION NO. 2

MAINLINE

PLACE UNDERSEAL ON MILLED SURFACE



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUM. MATERIAL		COLD MILLING
	COVER #	PLANT MIX		ASPHALT CEMENT	SEAL #	
AREA square feet		6.71	square yards PER STATION		993	504
cubic yards PER STATION		24.9	tons PER STATION	2.40	1.77	
tons PER STATION		48.0	gallons PER STATION			
square yards PER STATION	993					

INCLUDES TEXAS UNDERSEAL QUANTITIES

2670+65.50	TO	2677+15.80	

SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	tons HYDRATED LIME	AGGREGATE sq. yards COVER TYPE 1 #	AGGREGATE tons PLANT MIX BIT. SURF. GR. S - 3/4"	AGGREGATE tons PLANT MIX BIT. SURF. GR. S - MISC.	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 64-28	BITUMINOUS MATERIAL tons SEAL CHFRS-2P #*	REMARKS
FORT PECK INDIAN RESERVATION													
2082+25.20	2115+88.56	3,363.36	3,363.36					21,458	1,036		51.8	38.3	TYPICAL SECTION NO. 1
						ADDITIONAL SURFACING		0	32	23	1.2	0.0	
SUBTOTAL		3,363.36	3,363.36					21,458	1,068	23	53.0	38.3	
NON-RESERVATION													
2115+88.56													
2153+07.40 BK	2153+04.00 AH			3.40		EQUATION							
2182+27.20 BK	2182+30.10 AH				2.90	EQUATION							
2260+55.70 BK	2260+52.80 AH			2.90		EQUATION							
2282+84.60 BK	2282+88.20 AH				3.60	EQUATION							
2289+11.70 BK	2289+02.20 AH			9.50		EQUATION							
2390+30.50 BE	2391+17.75 BE				87.25	BRIDGE							
2409+62.90 BK	2409+66.50 AH				3.60	EQUATION							
2462+88.60 BK	2462+87.80 AH			0.80		EQUATION							
2472+33.00 BE	2474+21.00 BE				188.00	BRIDGE							
2491+34.30 BK	2491+30.30 AH			4.00		EQUATION							
	2668+65.50	55,276.94	55,012.19					350,978	16,944		847.2	627.1	TYPICAL SECTION NO. 1
2668+65.50	2670+65.50	200.00	200.00					1,631	79		3.9	2.9	TRANS. TYP. NO. 1 TO TYP. NO. 2
2670+65.50	2677+15.80	650.30	650.30					6,457	312		15.6	11.5	TYPICAL SECTION NO. 2
						ADDITIONAL SURFACING		8,061	529	1,017	51.0	14.5	
SUBTOTAL		56,127.24	55,862.49	20.60	285.35			367,127	17,864	1,017	917.7	656.0	
TOTAL		59,490.60	59,225.85	20.60	285.35		280	388,585	18,932	1,040	970.7	694.3	

INCLUDES TEXAS UNDERSEAL QUANTITIES.
* CRS-2P IS AN ACCEPTABLE SUBSTITUTE FOR CHFRS-2P.

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 sq. yards COVER TYPE 1	AGGREGATE tons PLANT MIX BIT. SURF. GR. S - 3/4"	AGGREGATE tons PLANT MIX BIT. SURF. GR. S - MISC.	BITUMINOUS MATERIAL tons ASPHALT CEMENT PG 64-28	BITUMINOUS MATERIAL tons SEAL CHFRS-2P	REMARKS
FORT PECK INDIAN RESERVATION													
						1 - PRIVATE APPROACH				16	0.8		PAVE TO R/W
						1 - FARM APPROACH				7	0.4		PAVE THROUGH 12 FT APRON
						LEVELING			32				
SUBTOTAL									32	23	1.2		
NON-RESERVATION													
						14 - PRIVATE APPROACHES				224	11.2		PAVE TO R/W
						35 - FARM APPROACHES				245	12.3		PAVE THROUGH 12 FT APRON
						4 - PUBLIC APPROACHES		702		203	10.2	1.3	PAVE TO R/W
						3 - MAILBOX TURNOUTS		538		345	17.3	1.0	COLD MILL DAYLIGHT INTO EXISTING
						1 - HISTORIC SITE TURNOUT		6,821				12.2	COLD MILL & OVERLAY TIE IN TO EXISTING
						LEVELING			529				
SUBTOTAL								8,061	529	1,017	51.0	14.5	
TOTAL		~	~	~	~		~	~	~	~	~	~	

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SUMMARY

RUMBLE STRIPS

STATION FROM	STATION TO	miles INTER-MITTENT *	gals EMULSIFIED ASPHALT FOG SEAL #	REMARKS
FORT PECK INDIAN RESERVATION				
2082+25.20	2115+88.56	0.6	70	LT. MODIFIED SHOULDER RUMBLE STRIPS
2082+25.20	2115+88.56	0.6	70	RT. MODIFIED SHOULDER RUMBLE STRIPS
SUBTOTAL		1.2	140	
NON-RESERVATION				
2115+88.56	2142+07.00	0.5	59	LT. MODIFIED SHOULDER RUMBLE STRIPS
2115+88.56	2390+30.50	5.2	610	RT. MODIFIED SHOULDER RUMBLE STRIPS
2143+72.00	2342+50.00	3.8	446	LT. MODIFIED SHOULDER RUMBLE STRIPS
2343+95.00	2390+30.50	0.9	106	LT. MODIFIED SHOULDER RUMBLE STRIPS
2391+17.75	2400+55.00	0.2	23	RT. MODIFIED SHOULDER RUMBLE STRIPS
2391+17.75	2400+80.00	0.2	23	LT. MODIFIED SHOULDER RUMBLE STRIPS
2401+80.00	2472+33.00	1.3	153	RT. MODIFIED SHOULDER RUMBLE STRIPS
2402+05.00	2472+33.00	1.3	153	LT. MODIFIED SHOULDER RUMBLE STRIPS
2474+21.00	2478+35.00	0.1	12	RT. MODIFIED SHOULDER RUMBLE STRIPS
2474+21.00	2668+65.50	3.7	434	LT. MODIFIED SHOULDER RUMBLE STRIPS
2478+60.00	2668+65.50	3.6	432	RT. MODIFIED SHOULDER RUMBLE STRIPS
SUBTOTAL		20.8	2,451	
TOTAL		22.0	~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS
* SEE DETAILED DRAWING 411-03 MODIFIED SHOULDER RUMBLE STRIPS

COLD MILLING *

STATION FROM	STATION TO	square yards COLD MILLING 0.10 ft	REMARKS
FORT PECK INDIAN RESERVATION			
2082+25.20	2115+88.56	10,998	TYPICAL SECTION NO. 1
		147	1 PRIVATE APPROACH
		58	1 FARM APPROACH
SUBTOTAL		11,203	
NON-RESERVATION			
2115+88.56	2668+65.50	179,890	TYPICAL SECTION NO. 1
2668+65.50	2670+65.50	832	TRANS. TYP. NO. 1 TO TYP. NO. 2
2670+65.50	2677+15.80	3,278	TYPICAL SECTION NO. 2
		2,058	14 PRIVATE APPROACHES
		2,030	35 FARM APPROACHES
		702	4 PUBLIC APPROACHES
		538	3 MAILBOX TURNOUTS
SUBTOTAL		189,328	
TOTAL		200,531	

* SEE DETAILS & TYPICAL SECTIONS

GUARDRAIL

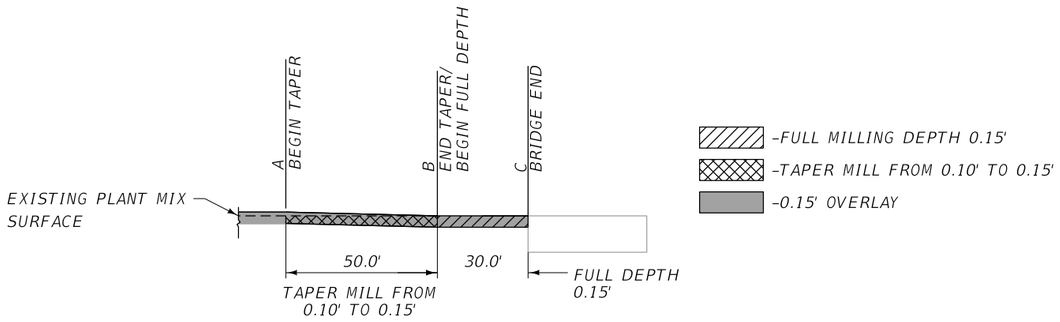
STATION FROM	STATION TO	linear feet REMOVE GUARDRAIL LEFT	REMOVE GUARDRAIL RIGHT	BOX BEAM GUARDRAIL LEFT	BOX BEAM GUARDRAIL RIGHT	each OPTIONAL BOX BEAM TERMINAL SECTION LEFT	OPTIONAL BOX BEAM TERMINAL SECTION RIGHT	BOX BEAM BRIDGE APPROACH SECTION TYPE 3 LEFT	BOX BEAM BRIDGE APPROACH SECTION TYPE 3 RIGHT	GUARDRAIL END SECTION WIDENING LEFT	GUARDRAIL END SECTION WIDENING RIGHT	REMARKS
NEW RAIL												
2387+03.95	2390+12.47				234.0		1		1		1	
2388+50.06	2390+32.58			108.0		1		1		1		
2391+15.67	2392+98.19				108.0		1		1		1	
2391+35.78	2394+44.30			234.0		1		1		1		
REMOVE RAIL												
2387+55.47	2390+19.47		264.0									
2389+07.58	2390+39.58	132.0										
2391+08.67	2392+40.67		132.0									
2391+28.78	2393+92.79	264.0										
SUBTOTAL		396.0	396.0	342.0	342.0	2	2	2	2	2	2	
TOTAL		792.0		684.0		4		4		4		

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
FORT PECK INDIAN RESERVATION				
STRIPING - WHITE PAINT	gallon	23		23
STRIPING - YELLOW PAINT	gallon	18		18
STRIPING - WHITE EPOXY	gallon		31	31
STRIPING - YELLOW EPOXY	gallon		24	24
TEMPORARY STRIPING	lnft			21,152
FINAL SWEEP AND BROOM	course mile			1.2
NON-RESERVATION				
STRIPING - WHITE PAINT	gallon	386		386
STRIPING - YELLOW PAINT	gallon	158		158
WORDS & SYMBOLS - WHITE PAINT	gallon	2		2
STRIPING - WHITE EPOXY	gallon		514	514
STRIPING - YELLOW EPOXY	gallon		211	211
WORDS & SYMBOLS - WHITE EPOXY	gallon		2	2
TEMPORARY STRIPING	lnft			184,488
FINAL SWEEP AND BROOM	course mile			10.6

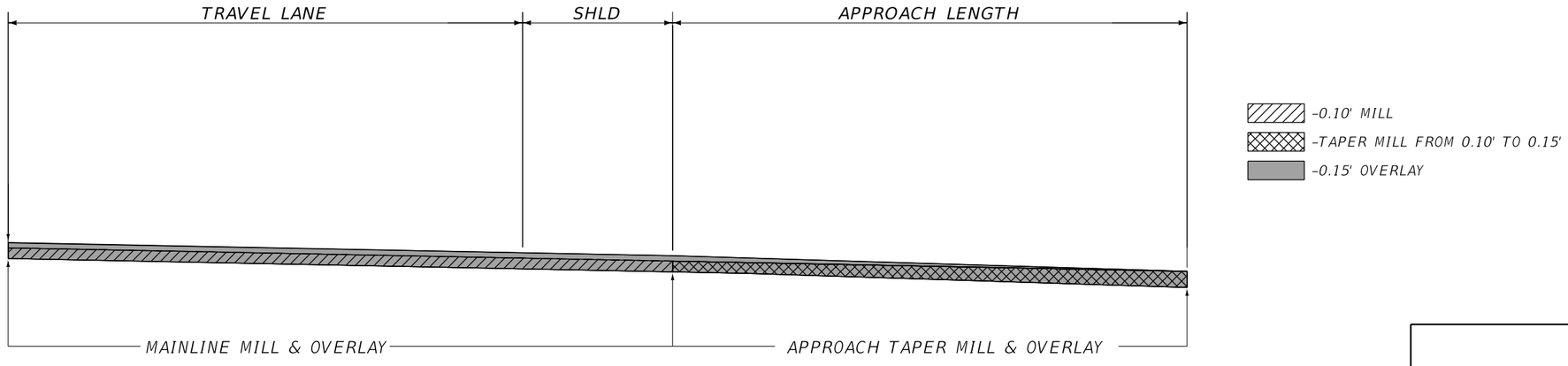
BASED ON 1 APPLICATION

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A	B	C
2389+50.50	2390+00.50	2390+30.50
2391+97.75	2391+47.75	2391+17.75
2371+53.00	2372+03.00	2372+33.00
2475+01.00	2474+51.00	2474+21.00

BRIDGE END MILLING DETAIL



APPROACH MILLING DETAIL

MILLING DETAILS

NO SCALE

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9458000rddet001.dgn	DESIGNED BY J. BERAN	9/30/2019	ROAD PLANS	SCOBEY - SOUTH	CRSII-STPP 32-2(18)39
2		1/5/2022	REVIEWED BY				
		3:35:33 PM CPS - U3162	CHECKED BY		DANIELS COUNTY	UPN 9458000	6

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SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	Site #1 RESERVATION	SITE #2 NON-RESERVATION	TOTAL	UNIT
SIGNS-SHEET ALUMINUM-REFLECTIVE SHEETING(IV)		113.8	113.8	SQ. FOOT
SIGNS-SHEET ALUMINUM-REFLECTIVE SHEETING(XI)	24.6	68.4	93.0	SQ. FOOT
SIGNS-ALUMINUM SHEET INCREMENT SHEETING (IV)	27.0	30.0	57.0	SQ. FOOT
SIGNS-ALUMINUM SHEET INCREMENT SHEETING (XI)				SQ. FOOT
OVERLAY-SHEET ALUMINUM				SQ. FOOT
POSTS-STEEL "U"		220	220	POUNDS
POLES-TREATED WOOD-4" DIA.		108	108	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 - TOP MOUNT BARRIER WHITE				EACH
DELINEATOR-DESIGN A	32	324	356	EACH
DELINEATOR-DESIGN B				EACH
DELINEATOR-DESIGN C				EACH
DELINEATOR-DESIGN D		14	14	EACH
DELINEATOR-DESIGN E				EACH
DELINEATOR-DESIGN F				EACH
DELINEATOR-DESIGN G				EACH
DELINEATOR-DESIGN H				EACH
REMOVE SIGNS	4	29	33	EACH
REMOVE SIGNS-GUIDE	2	1	3	EACH
RESET SIGNS				EACH
RESET SIGNS-GUIDE				EACH
TOP MNT BARRIER WHITE DELINEATOR		2	2	
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

	APPROXIMATE 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	REMOVE	RESET	REMARKS
FORT PECK RESERVATION	39.235 LT		M3-3 M1-5(13)	24 X 12 24 X 24	XI XI								5-0		2.0 XI 4.0 XI										1					REPLACE SIGN FACE ONLY
	39.235		M3-1 M1-5(13)	24 X 12 24 X 24	XI XI								5-0		2.0 XI 4.0 XI										1					REPLACE SIGN FACE ONLY
	39.287 LT		W5-1	30 X 30	XI								5-0		6.3 XI										1					REPLACE SIGN FACE ONLY
	39.730 LT		W11-4	30 X 30	XI								5-0		6.3 XI										1					REPLACE SIGN FACE ONLY
	39.866 LT		G32-39A	54 X 36	IV	IV							7-0			13.5 IV											1			REPLACE SIGN FACE ONLY ENTERING FORT PECK RES.
	39.866 RT		G32-39B	54 X 36	IV	IV							7-0			13.5 IV											1			REPLACE SIGN FACE ONLY LEAVING FORT PECK RES.
	RESERVATION TOTALS														24.6 XI	27.0 IV								4		2				
NON - RESERVATION	40.000 RT		D10-2(40) D10-2(40)	10 X 27 10 X 27	IV IV	IV IV	4-0		2# STL U POST		10-0		4-0	3-0	1.9 IV 1.9 IV								20		1					REPLACE
	40.388 LT		D3 D3	30 X 18 30 X 18	IV IV	IV IV	6-0		4" DIA POLE		13-4		5-0	3-0	3.8 IV 3.8 IV			14							1					REPLACE D3'S = SILVER STAR RD
			R1-1 -	30 X 30 -	XI -	XI -									5.2 XI -															
	41.000 RT		D10-2(41) D10-2(41)	10 X 27 10 X 27	IV IV	IV IV	4-0		2# STL U POST		10-0		4-0	3-0	1.9 IV 1.9 IV								20		1					REPLACE
	42.000 RT		D10-2(42) D10-2(42)	10 X 27 10 X 27	IV IV	IV IV	4-0		2# STL U POST		10-0		4-0	3-0	1.9 IV 1.9 IV								20		1					REPLACE
	43.000 RT		D10-2(43) D10-2(43)	10 X 27 10 X 27	IV IV	IV IV	4-0		2# STL U POST		10-0		4-0	3-0	1.9 IV 1.9 IV								20		1					REPLACE
	44.000 RT		D10-2(44) D10-2(44)	10 X 27 10 X 27	IV IV	IV IV	4-0		2# STL U POST		10-0		4-0	3-0	1.9 IV 1.9 IV								20		1					REPLACE
	44.148 LT		D3 D3	36 X 10 36 X 10	IV IV	IV IV	6-0		4" DIA POLE		12-8		5-0	3-0	2.5 IV 2.5 IV			14							1					REPLACE D3'S = FUGERE RD
			R1-1 -	30 X 30 -	XI -	XI -									5.2 XI -															
	45.000 RT		D10-2(45) D10-2(45)	10 X 27 10 X 27	IV IV	IV IV	4-0		2# STL U POST		10-0		4-0	3-0	1.9 IV 1.9 IV								20		1					REPLACE
	45.263 LT		D3 D3	36 X 10 36 X 10	IV IV	IV IV	6-0		4" DIA POLE		12-8		5-0	3-0	2.5 IV 2.5 IV			14							1					REPLACE D3'S = BEKKER RD
				30 X 30 -	XI -	XI -									5.2 XI -															
	45.363 LT		R1-1	30 X 30	XI	XI							5-0		5.2 XI										1					REPLACE SIGN FACE ONLY
	46.000 RT		D10-2(46) D10-2(46)	10 X 27 10 X 27	IV IV	IV IV	4-0		2# STL U POST		10-0		4-0	3-0	1.9 IV 1.9 IV								20		1					REPLACE
	46.000 RT		N7-1 N7-1P	USE AS IS USE AS IS																										N7-1P = NEWONT TELEPHONE
	46.614 RT		N6-2	30 X 18	IV	IV							5-0		3.8 IV										1					REPLACE SIGN FACE ONLY POPLAR RIVER
	46.654 RT		N6-2	30 X 18	IV	IV							5-0		3.8 IV										1					REPLACE SIGN FACE ONLY POPLAR RIVER
	46.749 RT		D3 D3	30 X 18 30 X 18	IV IV	IV IV	6-0		4" DIA POLE		13-4		5-0	3-0	3.8 IV 3.8 IV			14							1					REPLACE D3'S = POPLAR RIVER RD
			R1-1 -	30 X 30 -	XI -	XI -									5.2 XI -															

NOTE: SIGN LOCATIONS ARE APPROXIMATE

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

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9458000sisum001.dgn		NATHAN STYREN	SIGNING PLANS	SCOBEY - SOUTH / CRSII-STPP 32-2(18)39
2		1/5/2022		JAY ANDREW		UPN #9458000 / S2
1		3:35:46 PM CPS - U3162			DANIELS COUNTY	

AWARD COPY

SIGN LOCATION AND SPECIFICATIONS

NON - RESERVATION

APPROXIMATE 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
46.935 RT		D7-3L	48X36X30	IV	IV							5-0		9.8 IV										1					REPLACE SIGN FACE ONLY
47.000 RT		D10-2(47) D10-2(47)	10 X 27 10 X 27	IV IV	IV IV	4-0		2# STL U POST		10-0		4-0	3-0	1.9 IV 1.9 IV									20	1					REPLACE
47.311 RT		D7-4L	48X36X30	IV	IV							5-0		9.8 IV										1					REPLACE SIGN FACE ONLY
47.436 LT		D7-4R	48X36X30	IV	IV	10-0		4" DIA POLE		12-9		5-0	3-0	9.8 IV			14												NEW INSTALLATION
47.451 LT		R1-1	30 X 30	XI	XI							5-0		5.2 XI			12							1					REPLACE SIGN FACE ONLY
47.456 RT		R1-1	30 X 30	XI	XI							5-0		5.2 XI			12							1					REPLACE SIGN FACE ONLY
47.858 LT		D7-3R	48X36X30	IV	IV							5-0		9.8 IV										1					REPLACE SIGN FACE ONLY
48.000 RT		D10-2(48) D10-2(48)	10 X 27 10 X 27	IV IV	IV IV	4-0		2# STL U POST		10-0		4-0	3-0	1.9 IV 1.9 IV									20	1					REPLACE
48.000 RT		N7-1 N7-1P	USE AS IS USE AS IS																										N7-1P = SCOBEY LIONS
48.000 LT		N7-1 N7-1P	USE AS IS USE AS IS																										N7-1P = NEMONT TELEPHONE
49.000 RT		D10-2(49) D10-2(49)	10 X 27 10 X 27	IV IV	IV IV	4-0		2# STL U POST		10-0		4-0	3-0	1.9 IV 1.9 IV									20	1					REPLACE
50.000 RT		D10-2(50) D10-2(50)	10 X 27 10 X 27	IV IV	IV IV	4-0		2# STL U POST		10-0		4-0	3-0	1.9 IV 1.9 IV									20	1					REPLACE
50.050 RT		W3-5(45)	36 X 36	XI		10-0		4" DIA POLE		14-0		5-0	3-0	9.0 XI			14							1					REPLACE
50.060 LT		G32-50A	120 X 36	IV	IV							7-0			30.0 IV										1			REPLACE SIGN FACE ONLY
50.196 LT		R2-6 R2-2A	USE AS IS REMOVE																					1				USE AS IS R2-6 REMOVE R2-2A
50.236 RT		R2-1(45)	24 X 30	XI								5-0		5.0 XI										1					REPLACE SIGN FACE ONLY
50.236 LT		R2-1(70) R2-2A	24 X 30 24 X 18	XI XI								5-7		5.0 XI 3.0 XI										1					REPLACE SIGN FACE ONLY
50.432 RT		R2-1(35)	24 X 30	XI								5-0		5.0 XI										1					REPLACE SIGN FACE ONLY
50.432 LT		R2-1(45)	24 X 30	XI								5-0		5.0 XI										1					REPLACE SIGN FACE ONLY
NON - RESERVATION TOTALS														113.8 IV 68.4 XI	30.0 IV		108						220	29	1			
PROJECT TOTALS														113.8 IV 93.0 XI	57.0 IV		108						220	33	3			

DELINEATION TABLE		
	DESIGN "A"	32
	DESIGN "B"	___
	DESIGN "C"	___
	DESIGN "D"	___
	DESIGN "E"	___
	DESIGN "F"	___
	DESIGN "G"	___
	DESIGN "H"	___
	DESIGN "J"	___
	DESIGN "BJ"	___
	TOP MNT BAR White	___
	REMOVE DELINEATORS	___

FORT PECK RESERVATION

DELINEATION TABLE		
	DESIGN "A"	324
	DESIGN "B"	___
	DESIGN "C"	___
	DESIGN "D"	14
	DESIGN "E"	___
	DESIGN "F"	___
	DESIGN "G"	___
	DESIGN "H"	___
	DESIGN "J"	___
	DESIGN "BJ"	___
	TOP MNT BAR White	2
	REMOVE DELINEATORS	___

NON - RESERVATION

NOTE: SIGN LOCATIONS ARE APPROXIMATE

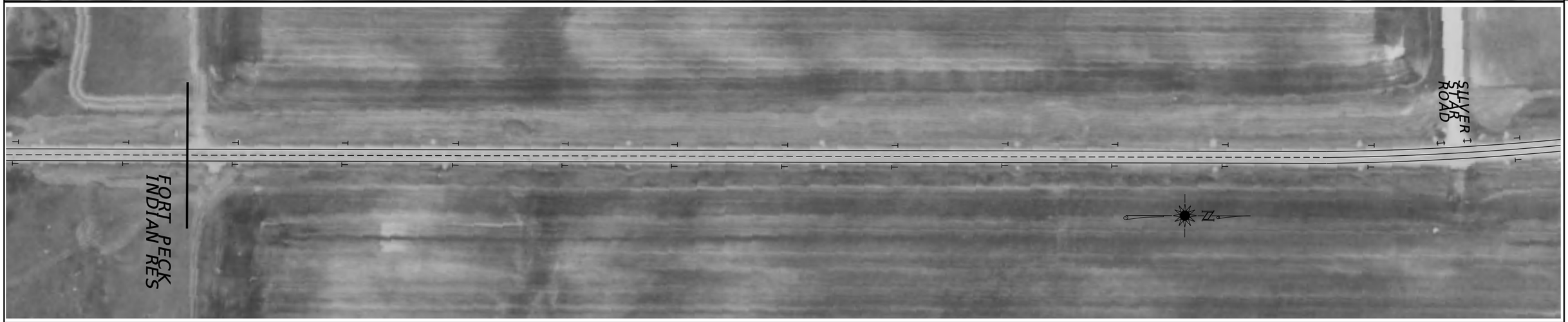
MOUNTING HEIGHT REQUIREMENTS: MOUNTING HEIGHTS SHOWN REFER TO THE BOTTOM OF THE MAJOR PANEL. SEE DETAILED DRAWINGS 619-00 & 619-08.

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9458000sisum001.dgn	NATHAN STYREN	SIGNING PLANS	SCOBEY - SOUTH	CRSII-STPP 32-2(18)39
2		1/5/2022	JAY ANDREW	DANIELS COUNTY	UPN #9458000	S3
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DETAILS







3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9458000sidet001.dgn		NATHAN STYREN		SCOBEY - SOUTH	CRSII-STPP 32-2(18)39
2		1/5/2022			SIGNING PLANS		UPN #9458000	S4
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DETAILS



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2		1/5/2022			SIGNING PLANS		
1		3:36:21 PM CPS – U3162		JAY ANDREW	DANIELS COUNTY	UPN #9458000	S5

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DETAILS

FUGERE ROAD

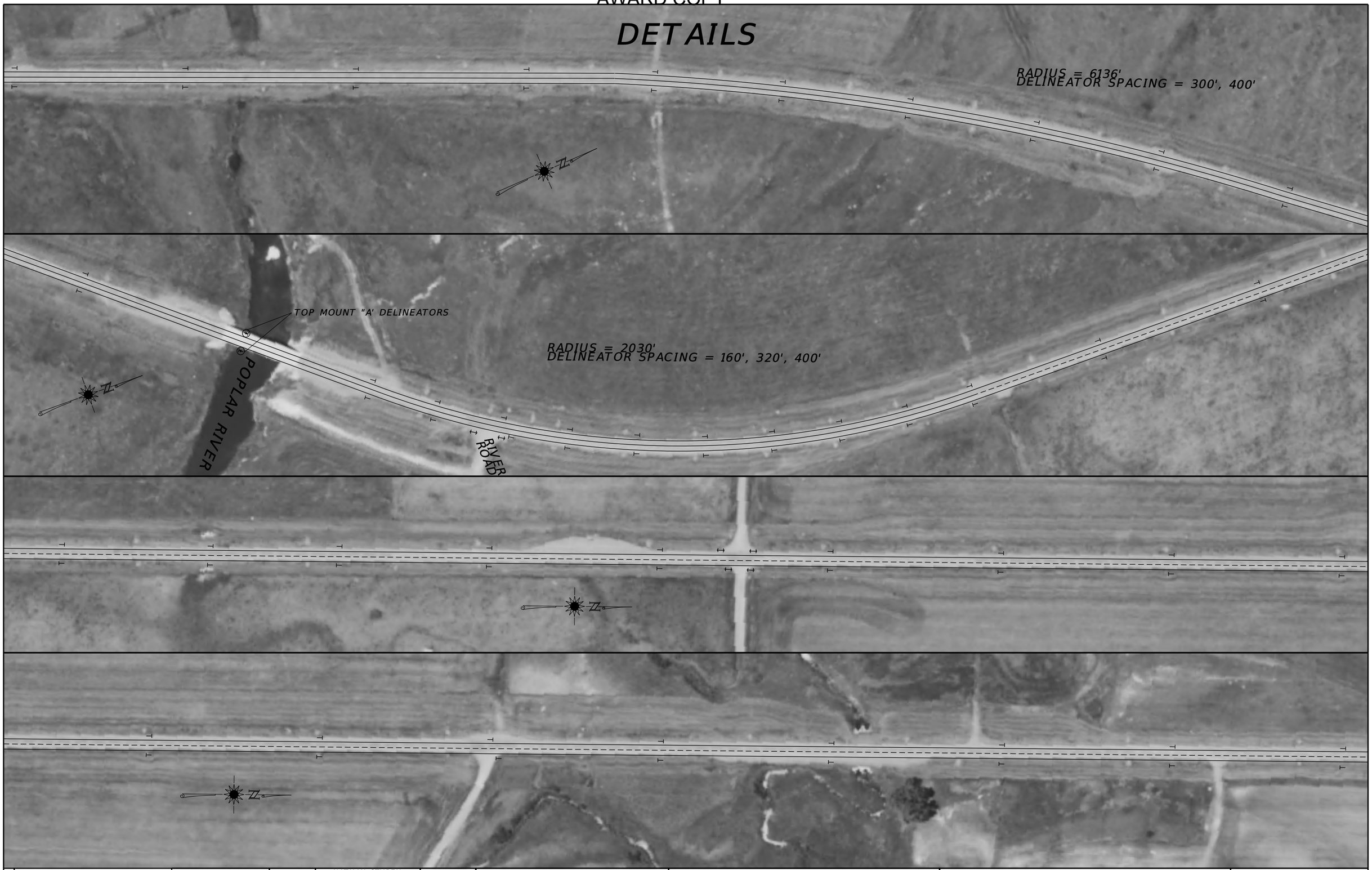
BEKKER ROAD

RADIUS = 2871'
DELINEATOR SPACING = 225', 400'

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9458000sidet001.dgn		NATHAN STYREN	SIGNING PLANS	SCOBEY - SOUTH	CRSII-STPP 32-2(18)39
2		1/5/2022		JAY ANDREW	DANIELS COUNTY	UPN #9458000	S6
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AWARD COPY

DETAILS



3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9458000sidet002.dgn		NATHAN STYREN	SIGNING PLANS	SCOBEY - SOUTH	CRSII-STPP 32-2(18)39
2		1/5/2022		JAY ANDREW	DANIELS COUNTY	UPN #9458000	S7
1		3:37:00 PM CPS - U3162					

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DETAILS



3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9458000sidet002.dgn		NATHAN STYREN		SIGNING PLANS	SCOBEY - SOUTH	CRSII-STPP 32-2(18)39
2		1/5/2022		JAY ANDREW			UPN #9458000	S8
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ASSOCIATED PROJECT AGREEMENT NUMBERS	
P. E.	STPP 32-2(17)39

MONTANA DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS AND QUANTITIES

FEDERAL AID PROJECT CRSII-STPP 32-2(18)39

SCOBEY - SOUTH

DANIELS COUNTY

SCALES SHOWN ON BRIDGE PLAN SHEETS ARE FOR FULL SIZE (22 X 34) PRINTS REDUCED PRINTS ARE APPROXIMATELY ONE-HALF ORIGINAL SCALE

LIST OF DRAWINGS

SHEET NO.	DWG. NO.	TITLE
BRIDGE DRAWINGS		
B1	24008	LIST OF DRAWINGS & ESTIMATED BRIDGE PLAN QUANTITIES
B2	24009	BRIDGE APPROACH RAIL REVISION

ESTIMATED BRIDGE PLAN QUANTITIES

FEATURE CROSSED	GENERAL LAYOUT DRAWING NO.	NBI NUMBER	MDT STRUCTURE NUMBER	CLASS A BRIDGE DECK REPAIR (YD^2)	CLASS B BRIDGE DECK REPAIR (YD^2)	PREPARE DECK (YD^2)	POLYMER OVERLAY PRIMER (YD^2)	POLYMER OVERLAY (YD^2)	REVISE CONCRETE BARRIER RAIL END-BR (EACH)
Negro Coulee	13943	P00032045+00721	05749	15.0	2.5	328.1	328.1	328.1	4.0
Poplar River	13948	P00032046+06571	05750	35.0	2.5	699.9	699.9	699.9	--
PROJECT TOTAL				50.0	5.0	1028.0	1028.0	1028.0	4.0

* NOTE: Specific Class B deck repair areas are not identified in the contract. Class B deck repair quantities are provided as a contingency. The Project Manager will identify any Class B deck repair areas if they are needed.

GENERAL NOTES

GENERAL: Plans were prepared from original drawings and as-built drawings. No additional survey information was procured for this project. Existing structure dimensions may vary from those shown on the drawings. Verify all dimensions necessary to complete the work.

SPECIFICATIONS: The current version of the Standard and Supplemental Specifications for Road and Bridge Construction adopted by the Montana Department of Transportation, applies.

REINFORCING STEEL: Use new deformed type reinforcing steel meeting the requirements of AASHTO M 31 Grade 60. Include all costs associated with furnishing and placing new reinforcing steel in other items.

Replace existing reinforcing steel damaged during construction that is called out to remain in place at no additional cost to the State.

Include cleaning exposed existing reinforcing steel in other items of work.

GENERAL NOTES

DIMENSIONS: All dimensions are in feet and inches except as noted. Verify all necessary dimensions of the existing structures in the field before ordering materials. Obtain approval of shop plans from the State of Montana, Department of Transportation before beginning fabrication. If the dimensions and details of the existing structure are not as shown on the plans, vary construction as necessary to best suit existing conditions and the nature of the intended work.

EXISTING BRIDGE PLANS: Existing bridge plans are available upon request from Montana Department of Transportation.

REPAIR CONCRETE: In areas of Class A/B Bridge Deck Repair use Concrete - Class Structure or rapid setting concrete as approved by the Project Manager. Polymer concrete will not be allowed.

Do not allow traffic onto the repaired deck until the repair concrete has reached a minimum 3500 psi compressive strength.

CLASS A AND B BRIDGE DECK REPAIR: Quantities shown may vary from actual field quantities.

SHEET NO. B1

LIST OF DRAWINGS & ESTIMATED BRIDGE PLAN QUANTITIES

REVISED				J.E.S.	08-19-19
REVISED				L.D.C.	07-16-19
REVISED				L.D.C.	07-16-19
REVISED					
CHECKED					
DRAWN					
DESIGNED					

C:\DGN\9458000brrm001.dgn

MONTANA DEPARTMENT OF TRANSPORTATION MDT BRIDGE BUREAU

1/5/2022 3:37:39 PM

ROUTE MT-13

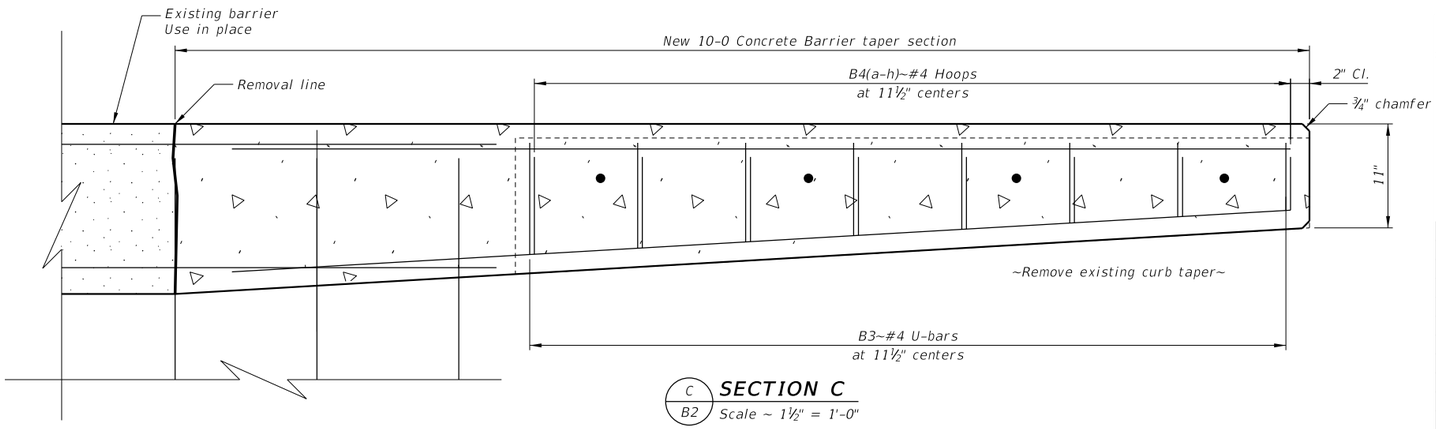
REF POINT MULTIPLE

MDT STR. ID MULTIPLE

UPN NUMBER 9458000

DRAWING NO. 24008

AWARD COPY

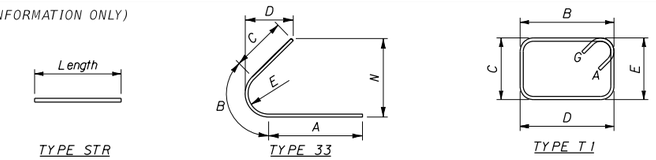


C / B2 **SECTION C**
Scale ~ 1½" = 1'-0"

BILL OF REINFORCING STEEL

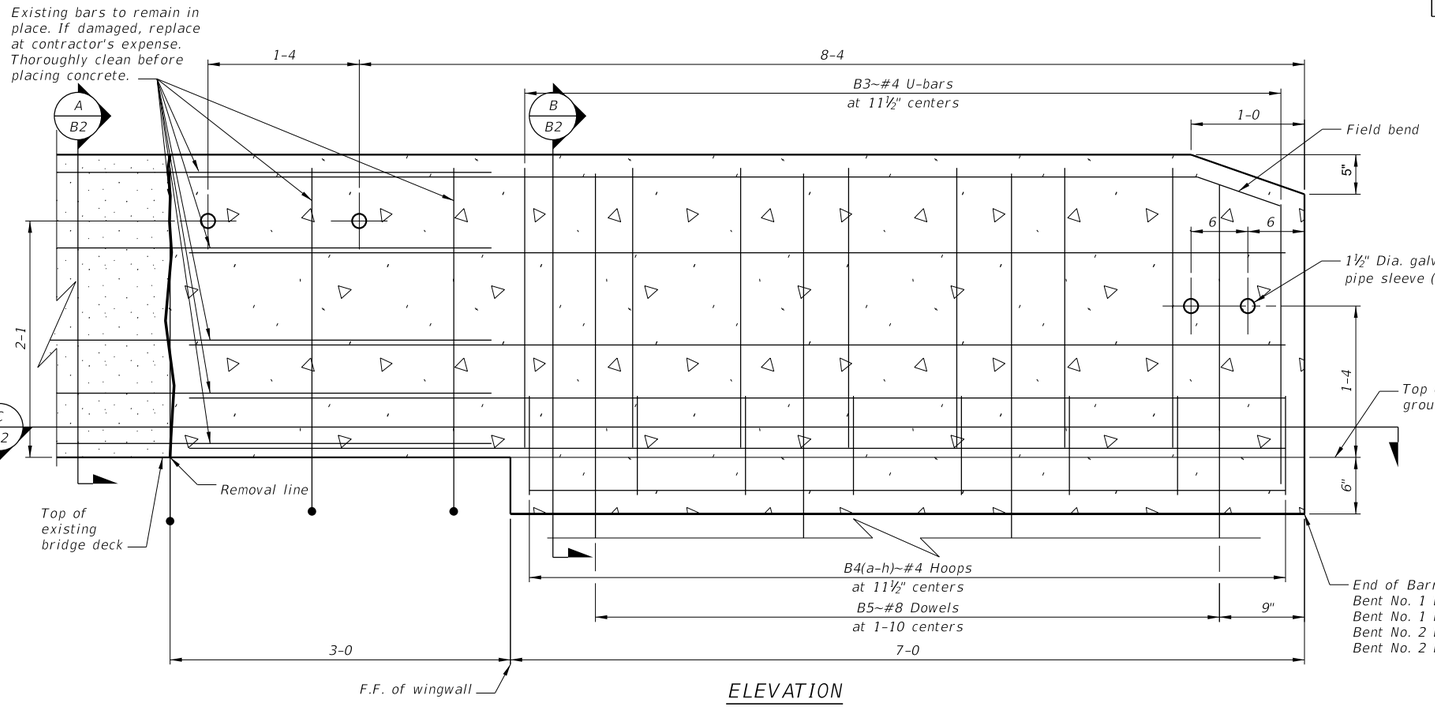
QUANTITIES ARE FOR ONE APPROACH ONLY
(ALL DIMENSIONS ARE OUT TO OUT)

(FOR INFORMATION ONLY)

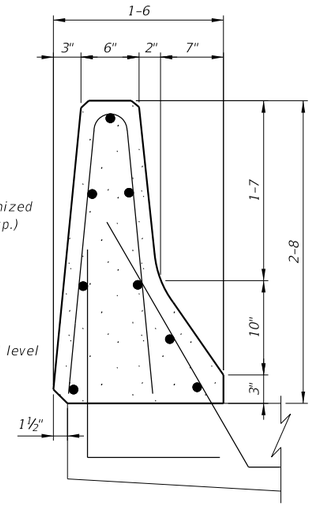


TYPE STR TYPE 33 TYPE T1

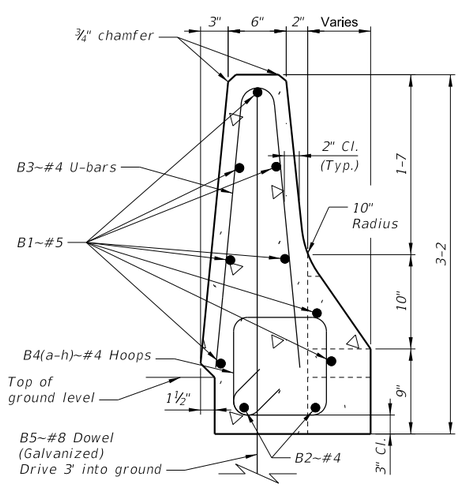
Mark	Size	No.	Type	Length	A	B	C	D	E	G	N
B1	#5	8	STR	9-8							
B2	#4	2	STR	6-8							
B3	#4	8	33	5-1½	2-4	0-5½	2-4	2-4	0-1½		0-9
B4a	#4	1	T1	4-3	0-5	0-9½	0-11	0-9½	0-11	0-5	
B4b	#4	1	T1	4-2	0-5	0-9	0-11	0-9	0-11	0-5	
B4c	#4	1	T1	4-1	0-5	0-8½	0-11	0-8½	0-11	0-5	
B4d	#4	1	T1	3-11	0-5	0-7½	0-11	0-7½	0-11	0-5	
B4e	#4	1	T1	3-10	0-5	0-7	0-11	0-7	0-11	0-5	
B4f	#4	1	T1	3-9	0-5	0-6½	0-11	0-6½	0-11	0-5	
B4g	#4	1	T1	3-7	0-5	0-5½	0-11	0-5½	0-11	0-5	
B4h	#4	1	T1	3-6	0-5	0-5	0-11	0-5	0-11	0-5	
B5	#8	4	STR	6-0							



ELEVATION



A / B2 **SECTION A**
Scale ~ 1½" = 1'-0"



B / B2 **SECTION B**
Scale ~ 1½" = 1'-0"

NOTES

½" neat saw cut around entire perimeter at the removal line.

Estimated weight of Reinforcing Steel = 202 lbs.
Estimated volume of Concrete - Class Structure = 1.0 yd³.
Estimated quantities are for one approach section only.

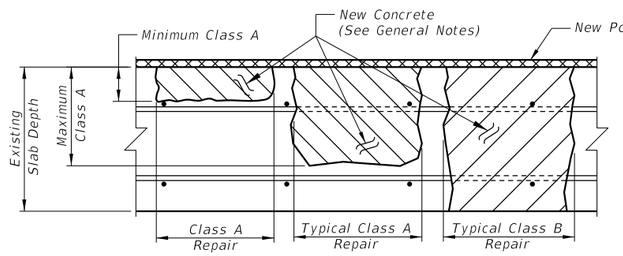
PAYMENT: Include all costs associated with furnishing materials, equipment, labor, and incidentals necessary to complete the item in the unit price bid for Revise Concrete Barrier Rail End-BR.

NOTES

See Detailed Drawing 606-53A for Box Beam Bridge Approach Section - Type 3 hardware and connection details.

See General Layout Dwg. No. 13943 for more information.
Use Concrete - Class Structure in barrier.

Lap #4 bars 1-6 minimum.
Lap #5 bars 2-6 minimum.



BRIDGE DECK REPAIR
No Scale

NOTE: See Standard Specifications for definitions of Class A and Class B repair.

SHEET NO. B2

BRIDGE APPROACH RAIL REVISION

SCALE: 1½" = 1'-0" (Except as noted)

BRIDGE OVER NEGRO COULEE

AT STA. 2390+74.13

FEDERAL AID PROJECT CRSII-STPP 32-2(18)39

COUNTY DANIELS

REVISED				
REVISED				
REVISED				
REVISED				
CHECKED	08-19-19	J.E.S.		
DRAWN	07-11-19	L.D.C.		
DESIGNED	07-11-19	L.D.C.		

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1/5/2022 3:37:53 PM
MONTANA DEPARTMENT OF TRANSPORTATION
BRIDGE BUREAU

ROUTE MT-13

REF POINT 45+0.068

MDT STR. ID 05749

UPN NUMBER 9458000

DRAWING NO. 24009