

MONTANA DEPARTMENT OF TRANSPORTATION

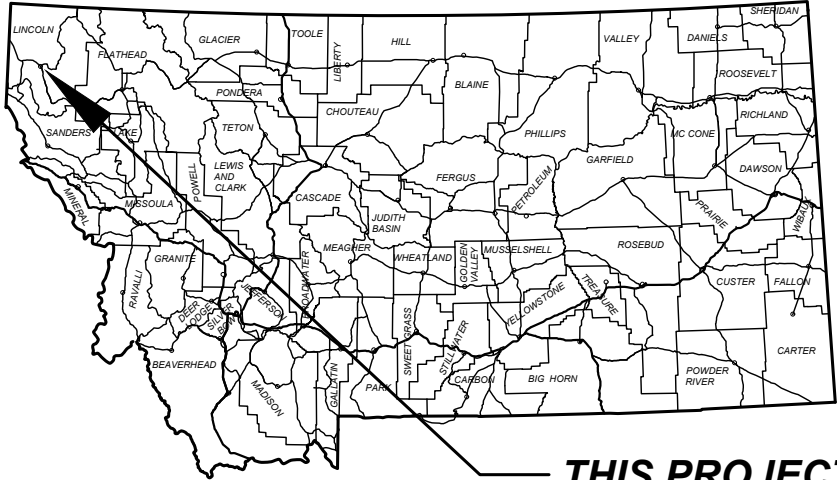
FEDERAL AID PROJECT NHPB-STPB 1-1(122)15

MINOR BRIDGE REHABILITATION

LIBBY AREA BRIDGE DECKS

LINCOLN COUNTY

LENGTH N/A MILES



THIS PROJECT

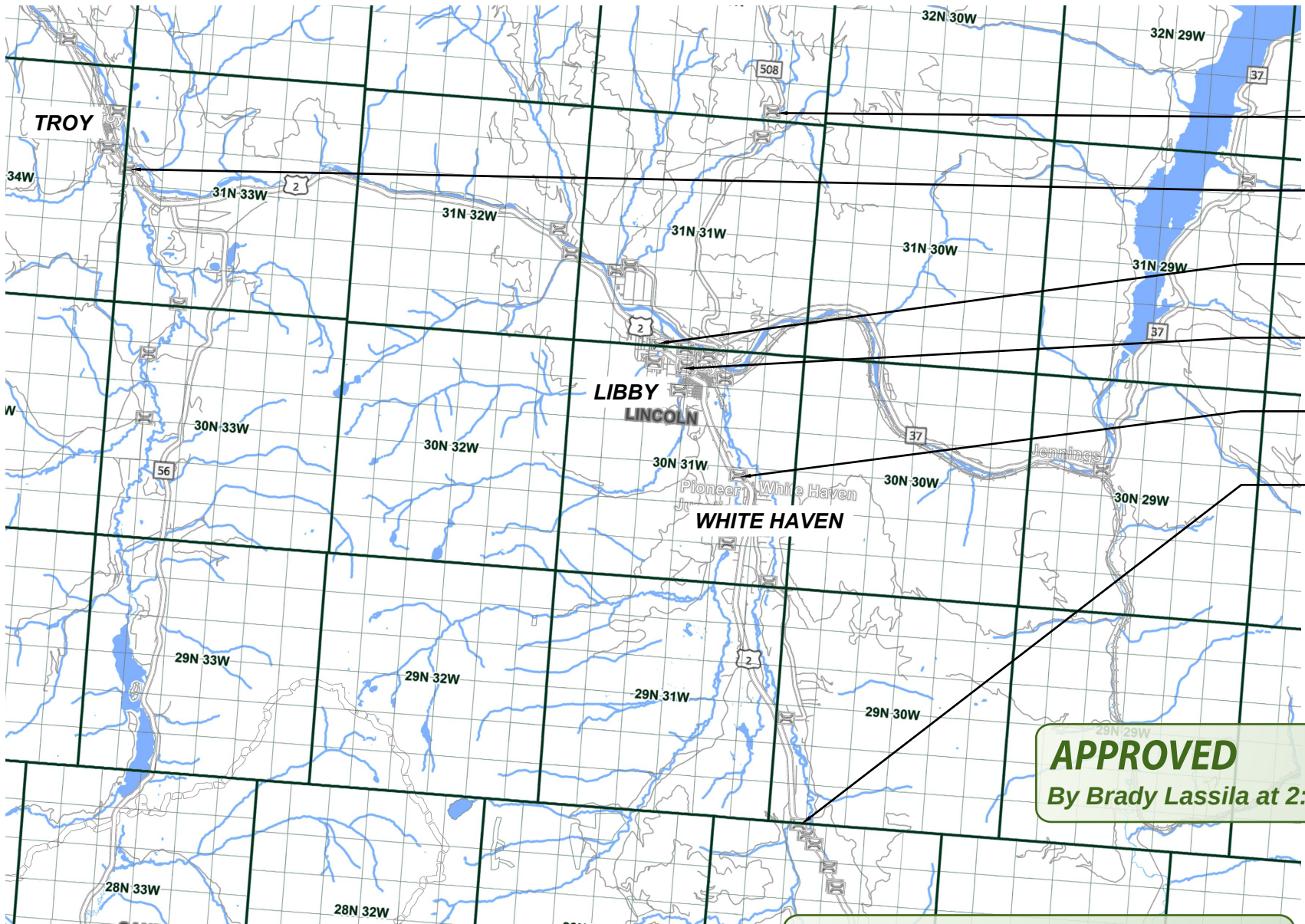
SURFACING SOURCES-
CONTRACTOR FURNISHED

PROJECT DESIGN DATA

SEE SHEET 2

ASSOCIATED PROJECT
AGREEMENT NUMBERS

R/W	
I.C.	
P.E.	NHPB-STPB 1-1(121)15



STA. 143+65.69 (ENGLISH)
32' x 59' BRIDGE IN PL.
STR NO 06932 - NBI S00567007+04011
(PIPE CREEK) RP 7.40

STA. 201+76.00 (ENGLISH)
42.1' x 175' BRIDGE IN PL.
STR NO 05007 - NBI P00001015+03251
(LAKE CREEK) RP 15.32

STA. 1801+54.00 (ENGLISH)
69.7' x 25' BRIDGE IN PL.
STR NO 05009 - NBI P00001031+01281
(PARMENTER CREEK) RP 31.12

STA. 1849+67.00 (ENGLISH)
75.1' x 25' BRIDGE IN PL.
STR NO 05010 - NBI P00001032+00381
(FLOWER CREEK) RP 32.03

STA. 2019+55.75 (ENGLISH)
81.8' x 151.5' BRIDGE IN PL.
STR NO 05011 - NBI P00001035+02771
(BIG CHERRY CREEK) RP 35.27

STA. 31+90.61 (ENGLISH)
42.1' x 120' BRIDGE IN PL.
STR NO 05012 - NBI P00001044+07961
(LIBBY CREEK) RP 44.79

APPROVED
By Brady Lassila at 2:23 pm, Jul 02, 2026

APPROVED
By Kelly M Williams at 7:13 am, Jul 06, 2026

TD&H ENGINEERING	
APPROVED BY:	
DATE	
MONTANA DEPARTMENT OF TRANSPORTATION	
DATE	

TABLE OF CONTENTS

ROAD PLANS

SHEET NO.

BASIS OF PLAN QUANTITIES

ALIGNMENT NOTES

ALIGNMENTS SHOWN ARE BEST FIT BASED UPON EXISTING ROAD GEOMETRY. STATIONING IS DERIVED FROM BRIDGE RECORD DRAWINGS. ALIGNMENTS DO NOT REPRESENT A RETRACEMENT OF ORIGINAL DESIGN ALIGNMENTS OR RIGHT OF WAY. ALIGNMENTS ARE SHOWN ONLY TO FACILITATE THE WORK DESCRIBED IN THIS PLAN SET AND ASSOCIATED SPECIFICATIONS (10513000).

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.

PUBLIC LAND SURVEY MONUMENTS

ALL MONUMENTS TO BE REMOVED AND RELOCATED OR RESET BY STATE FORCES.

DO NOT DISTURB

PROPERTY PINS AND OTHER ITEMS LABELED DO NOT DISTURB OR PROTECT IN PLACE.

CONSTRUCTION NOTES

COLD MILLINGS ARE THE PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE JOB SITE.

STRIPING NOTES

MDT WILL PROVIDE STRIPING SURVEY AND LAYOUT TO MATCH EXISTING STRIPING.

WETLANDS

WETLANDS MAY EXIST ADJACENT TO THE ROADWAY AND BEYOND THE PROJECT LIMITS. A WETLAND DELINEATION HAS NOT BEEN COMPLETED FOR THIS PROJECT. PERMANENT IMPACTS TO WETLAND AREAS ARE NOT ANTICIPATED IN ASSOCIATION WITH THE PROPOSED WORK. NO PERMITS HAVE BEEN OBTAINED. ANY ACTION IMPACTING WETLAND AREAS WITHOUT THE APPROPRIATE PERMITTING IS THE RESPONSIBILITY OF THE CONTRACTOR.

PROJECT DESIGN DATA

MDT STR. NO.	FEATURE INTERSECTED	ROUTE	RP	PRESENT 2024 A. D. T.	DESIGN 2045 A. D. T.	D.H.V.	TRUCKS (%)	V. (MPH)	18 KIP ESAL'S	GROWTH RATE (%)
05007	LAKE CREEK	US2	15.32	3120	3840	490	8.8	60	98	1.0
05009	PARMENTER CREEK	US2	31.12	3260	4020	510	8.5	70	94	1.0
05010	FLOWER CREEK	US2	32.03	9430	11620	1410	4.4	70	136	1.0
05011	BIG CHERRY CREEK	US2	35.27	5350	6590	800	7.7	70	139	1.0
05012	LIBBY CREEK	US2	44.79	1670	2330	280	8.5	60	80	1.6
06932	PIPE CREEK	S-567	7.40	220	460	70	10.5	50	9	3.5

SHEET NO.

2

TABLE OF CONTENTS & NOTES

PROJECT NAME
LIBBY AREA BRIDGE DECKS

COUNTY

LINCOLN

PROJECT ID

NHPB-STPB 1-1(122)15

UPN

10513000

DESIGNED BY

RES

5/29/2026

REVIEWED BY

DJW

3/20/2026

CHECKED BY

BBL

3/20/2026

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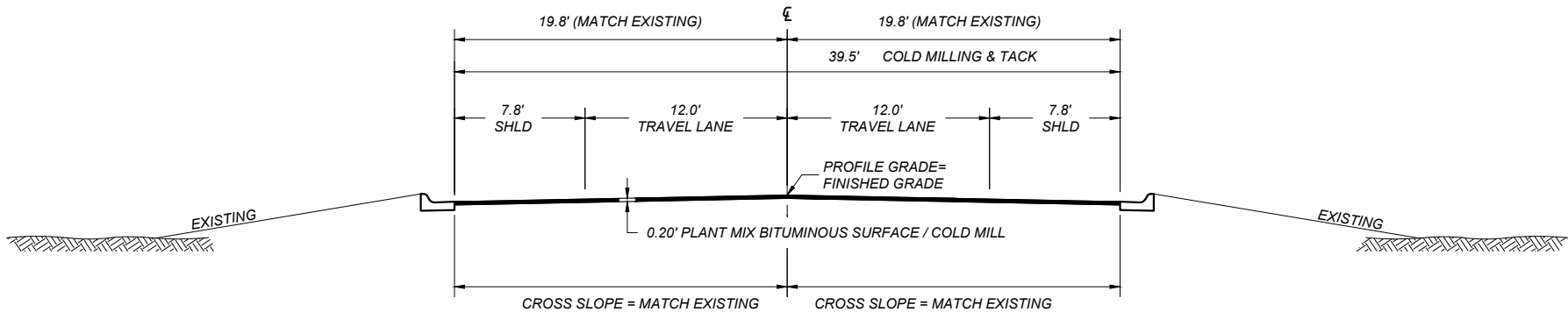
ROAD PLANS

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TYPICAL SECTION NO. 1
MAINLINE - US 2 MILL AND FILL SECTION
STR. ID. 05007

STR. NO. 05007
200+35.20 TO 200+85.20 BE

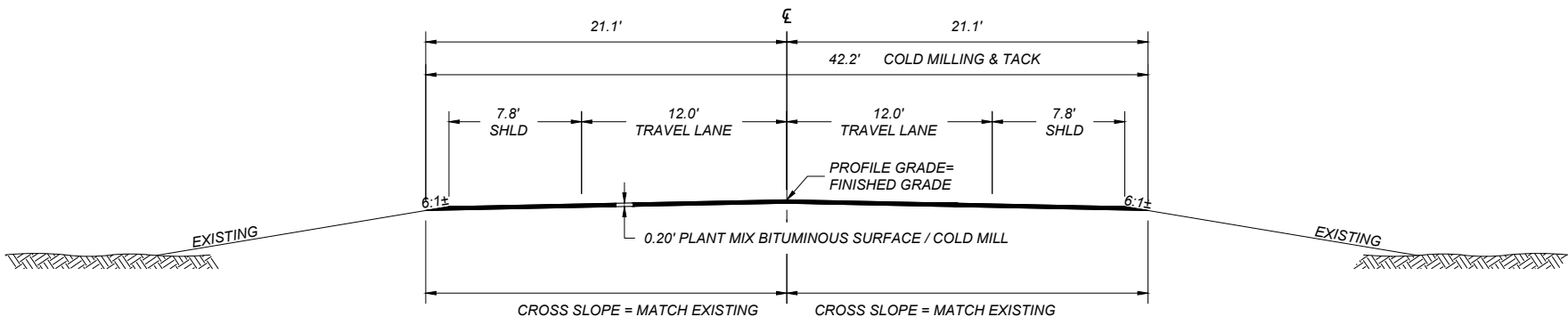


QUANTITIES			
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL
	PLANT MIX		TACK*
AREA square feet	7.90	square yards PER STATION	439
cubic yards PER STATION	29.3		
tons PER STATION	56.4	gals. PER STATION	22

* BASED ON 1 APPLICATION

TYPICAL SECTION NO. 2
MAINLINE - US 2 MILL AND FILL SECTION
STR. ID. 05007

STR. NO. 05007
202+66.80 BE TO 203+16.80



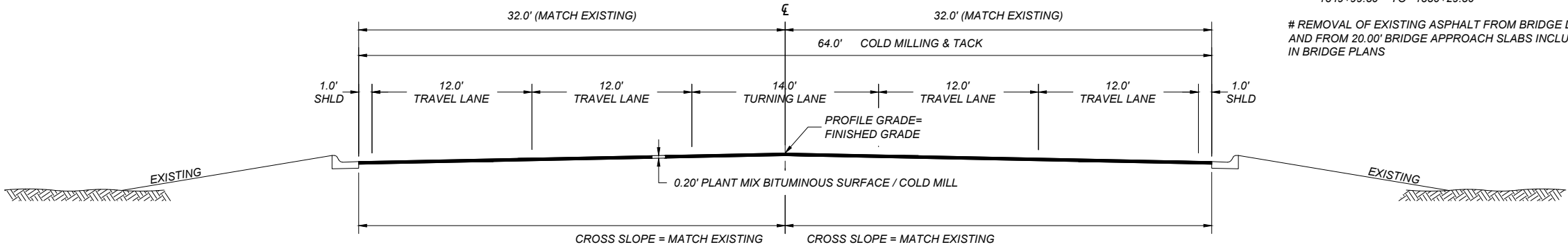
QUANTITIES			
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL
	PLANT MIX		TACK*
AREA square feet	8.17	square yards PER STATION	469
cubic yards PER STATION	30.3		
tons PER STATION	58.3	gals. PER STATION	23

* BASED ON 1 APPLICATION

TYPICAL SECTION NO. 3
MAINLINE - US 2 MILL AND FILL SECTION
STR. ID. 05009 & 05010

STR. NO. 05009
1800+91.50 TO 1801+21.50
1801+21.50 TO 1801+86.50 #
1801+86.50 TO 1802+16.50
STR. NO. 05010
1849+04.50 TO 1849+34.50
1849+34.50 TO 1849+99.50 #
1849+99.50 TO 1850+29.50

REMOVAL OF EXISTING ASPHALT FROM BRIDGE DECK
AND FROM 20.00' BRIDGE APPROACH SLABS INCLUDED
IN BRIDGE PLANS

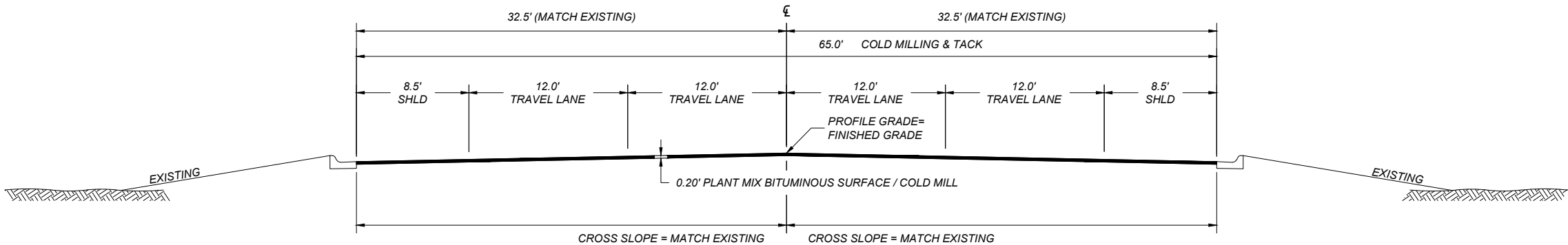


QUANTITIES			
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL
	PLANT MIX		TACK*
AREA square feet	12.80	square yards PER STATION	711
cubic yards PER STATION	47.4		
tons PER STATION	91.4	gals. PER STATION	36

* BASED ON 1 APPLICATION

TYPICAL SECTION NO. 4
MAINLINE - US 2 MILL AND FILL SECTION
STR. ID. 05011

STR. NO. 05011
2018+30.00 TO 2018+80.00 BE
2020+31.50 BE TO 2020+81.50

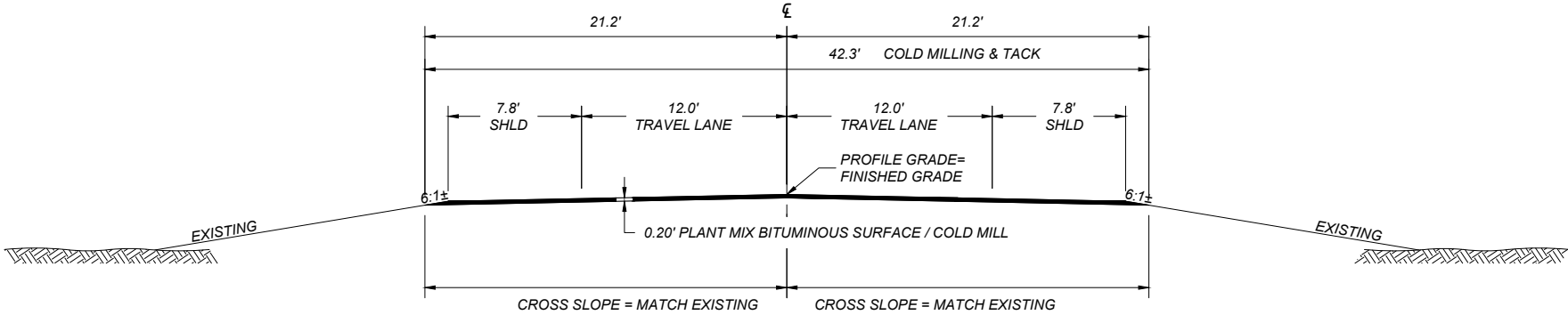


QUANTITIES			
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL
	PLANT MIX		TACK*
AREA square feet	13.00	square yards PER STATION	722
cubic yards PER STATION	48.1		
tons PER STATION	92.8	gals. PER STATION	36

* BASED ON 1 APPLICATION

TYPICAL SECTION NO. 5
MAINLINE - US 2 MILL AND FILL SECTION
STR. ID. 05012

STR. NO. 05012
30+80.61 TO 31+30.61 BE
32+50.61 BE TO 33+00.61

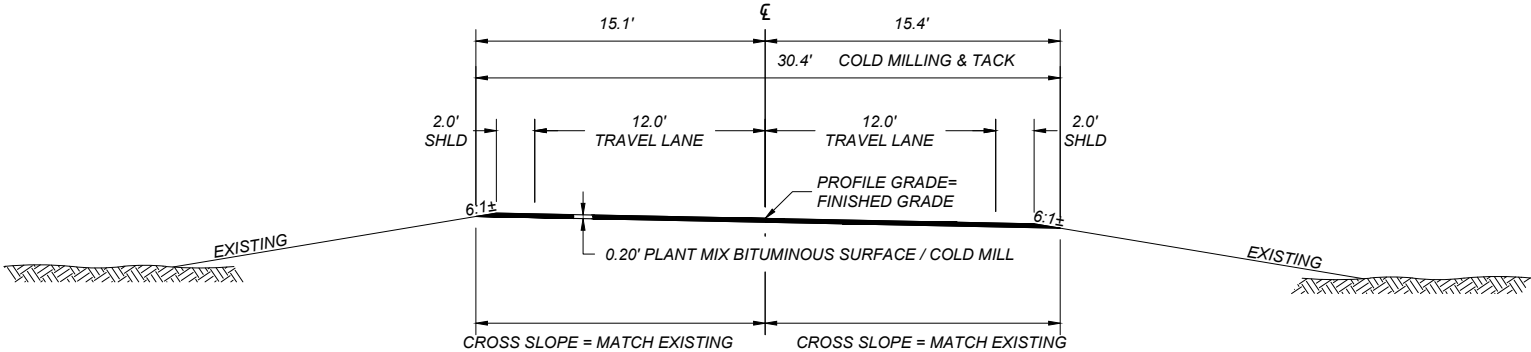


QUANTITIES			
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL
	PLANT MIX		TACK*
AREA square feet	8.19	square yards PER STATION	470
cubic yards PER STATION	30.3		
tons PER STATION	58.5	gals. PER STATION	24

* BASED ON 1 APPLICATION

TYPICAL SECTION NO. 6
MAINLINE - PIPE CREEK RD MILL AND FILL SECTION
STR. ID. 06932

STR. NO. 06932
142+84.19 TO 143+34.19 BE
143+97.19 BE TO 144+47.19



QUANTITIES			
UNIT	AGGREGATE	UNIT	BITUMINOUS MATERIAL
	PLANT MIX		TACK*
AREA square feet	5.84	square yards PER STATION	338
cubic yards PER STATION	21.6		
tons PER STATION	41.7	gals. PER STATION	17

* BASED ON 1 APPLICATION

SUMMARY

SURFACING									
STATION		linear feet				FOR	AGGREGATE	BITUMINOUS MATERIAL	REMARKS
		GROSS	NET	+	-		tons	gals.	
							COMMERCIAL MIX 3/8" 58H-34	EMULSIFIED ASPHALT - TACK COAT	
FROM	TO								
STRUCTURE NO. 05007									
200+35.20	200+85.20 BE	50.00					28	11	TYPICAL SECTION NO. 1
200+85.20 BE	202+66.80 BE	181.60			181.60	BRIDGE			
202+66.80 BE	203+16.80	50.00	50.00				29	12	TYPICAL SECTION NO. 2
STRUCTURE NO. 05009									
1800+91.50	1801+41.50 BE	50.00	50.00				46	18	TYPICAL SECTION NO. 3
1801+41.50 BE	1801+66.50 BE	25.00	25.00			BRIDGE	23	9	TYPICAL SECTION NO. 3
1801+66.50 BE	1802+16.50	50.00	50.00				46	18	TYPICAL SECTION NO. 3
STRUCTURE NO. 05010									
1849+04.50	1849+54.50 BE	50.00	50.00				46	18	TYPICAL SECTION NO. 3
1849+54.50 BE	1849+79.50 BE	25.00	25.00			BRIDGE	23	9	TYPICAL SECTION NO. 3
1849+79.50 BE	1850+29.50	50.00	50.00				46	18	TYPICAL SECTION NO. 3
STRUCTURE NO. 05011									
2018+30.00	2018+80.00 BE	50.00	50.00				46	18	TYPICAL SECTION NO. 4
2018+80.00 BE	2020+31.50 BE	151.50			151.50	BRIDGE			
2020+31.50 BE	2020+81.50	50.00	50.00				46	18	TYPICAL SECTION NO. 4
STRUCTURE NO. 05012									
30+80.61	31+30.61 BE	50.00	50.00				29	12	TYPICAL SECTION NO. 5
31+30.61 BE	32+50.61 BE	120.00			120.00	BRIDGE			
32+50.61 BE	33+00.61	50.00	50.00				29	12	TYPICAL SECTION NO. 5
STRUCTURE NO. 06932									
142+84.19	143+34.19 BE	50.00	50.00				21	8	TYPICAL SECTION NO. 6
143+34.19 BE	143+97.19 BE	63.00			63.00	BRIDGE			
143+97.19 BE	144+47.19	50.00	50.00				21	8	TYPICAL SECTION NO. 6
TOTAL		1,166.10	650.00	0.00	516.10		479	188	

 MONTANA Department of Transportation	DESIGNED BY		PROJECT NAME	
	RES	5/29/2026	LIBBY AREA BRIDGE DECKS	
	REVIEWED BY		COUNTY	
	DJW	3/20/2026	LINCOLN	
	CHECKED BY		PROJECT ID	
BBL		3/20/2026	UPN	
		10513000RDSUMZ61.DWG		
ROAD PLANS				
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SUMMARY

SHEET NO.

7

SUMMARY

PROJECT NAME
LIBBY AREA BRIDGE DECKS

COUNTY
LINCOLN

PROJECT ID
NHPB-STPB 1-1(122)15

UPN
10513000

DESIGNED BY
RES

5/29/2026

REVIEWED BY
DJW

3/20/2026

CHECKED BY
BBL

3/20/2026

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ROAD PLANS

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PAVEMENT MARKINGS *

ITEM	UNIT	INTERIM APPLICA- TION #	FINAL APPLICA- TION	SUBTOTAL
STR. NO. 05007				
STRIPING - WHITE PAINT	gallon	11		11
STRIPING - YELLOW PAINT	gallon	11		11
STRIPING - WHITE EPOXY	gallon		7	7
STRIPING - YELLOW EPOXY	gallon		7	7
STR. NO. 05009				
STRIPING - WHITE PAINT	gallon	10		10
STRIPING - YELLOW PAINT	gallon	10		10
STRIPING - WHITE EPOXY	gallon		7	7
STRIPING - YELLOW EPOXY	gallon		7	7
STR. NO. 05010				
STRIPING - WHITE PAINT	gallon	10		10
STRIPING - YELLOW PAINT	gallon	10		10
STRIPING - WHITE EPOXY	gallon		7	7
STRIPING - YELLOW EPOXY	gallon		7	7
STR. NO. 05011				
STRIPING - WHITE PAINT	gallon	13		13
STRIPING - YELLOW PAINT	gallon	10		10
STRIPING - WHITE EPOXY	gallon		8	8
STRIPING - YELLOW EPOXY	gallon		6	6
STR. NO. 05012				
STRIPING - WHITE PAINT	gallon	10		10
STRIPING - YELLOW PAINT	gallon	10		10
STRIPING - WHITE EPOXY	gallon		6	6
STRIPING - YELLOW EPOXY	gallon		6	6
STR. NO. 06932				
STRIPING - WHITE PAINT	gallon	9		9
STRIPING - YELLOW PAINT	gallon	1		1
STRIPING - WHITE EPOXY	gallon		6	6
STRIPING - YELLOW EPOXY	gallon		1	1
TOTAL				
STRIPING - WHITE PAINT	gallon			62
STRIPING - YELLOW PAINT	gallon			52
STRIPING - WHITE EPOXY	gallon			39
STRIPING - YELLOW EPOXY	gallon			33

BASED ON 2 APPLICATIONS.

* BASED ON STRIPING 300 FT FROM EACH BRIDGE END.

* REMOVAL OF PAVEMENT MARKINGS IS INCIDENTAL TO OTHER ITEMS AND IS NOT MEASURED FOR PAYMENT.

TEMPORARY BARRIER RAIL

TEMPORARY BARRIER RAIL										
STATION		linear feet				each				REMARKS
		RESET TEMPORARY BARRIER RAIL		TEMPORARY BARRIER RAIL		TEMPORARY IMPACT ATTENUATOR		RESET TEMPORARY IMPACT ATTENUATOR		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
STR. NO. 05007										POSITIVE PROTECTION ON BRIDGE DECKS. IMPACT ATTENUATORS ON ENDS OF BARRIER.
200+26.00	203+26.00	300.0			300.0		2	2		
STR. NO. 05009										
1800+89.00	1802+19.00	130.0			130.0		2	2		
STR. NO. 05010										
1849+02.00	1850+32.00	130.0			130.0		2	2		
STR. NO. 05011										
2018+30.75	2020+80.75	250.0			250.0		2	2		
STR. NO. 05012										
30+80.61	33+00.61	220.0			220.0		2	2		
STR. NO. 06932										
142+80.69	144+50.69	170.0			170.0		2	2		
SUBTOTAL		1,200.0			1,200.0		12	12		
TOTAL		1,200.0		1,200.0		12		12		

COLD MILLING

STATION		sq yards	REMARKS
		COLD MILLING	
FROM	TO	0.20 ft	
STR. NO. 05007			
200+35.20	200+85.20 BE	220	
202+66.80 BE	203+16.80	235	
STR. NO. 05009			
1800+91.50	1801+21.50	213	PROTECT STORM INLETS
1801+21.50	1801+86.50	0	DO NOT MILL ON BRIDGE DECK OR APPROACH SLABS
1801+86.50	1802+16.50	213	
STR. NO. 05010			
1849+04.50	1849+34.50	213	PROTECT STORM INLETS
1849+34.50	1849+99.50	0	DO NOT MILL ON BRIDGE DECK OR APPROACH SLABS
1849+99.50	1850+29.50	213	
STR. NO. 05011			
2018+30.00	2018+80.00 BE	361	PROTECT STORM INLETS
2020+31.50 BE	2020+81.50	361	
STR. NO. 05012			
30+80.61	31+30.61 BE	235	
32+50.61 BE	33+00.61	235	
STR. NO. 06932			
142+84.19	143+34.19 BE	169	
143+97.19 BE	144+47.19	169	
TOTAL		2,837	

CRACK SEALING

STATION		CRACK SEAL (LB)	CRACK SEAL (LN FT) #	REMARKS
FROM	TO			
STR. NO. 05009				
1801+21.50	1801+21.50	47	64	DETAIL 1
1801+41.50	1801+41.50	33	67	DETAIL 2
1801+66.50	1801+66.50	33	67	DETAIL 2
1801+86.50	1801+86.50	47	64	DETAIL 1
STR. NO. 05010				
1849+34.50	1849+34.50	48	65	DETAIL 1
1849+54.50	1849+54.50	34	68	DETAIL 2
1849+79.50	1849+79.50	34	68	DETAIL 2
1849+99.50	1849+99.50	48	65	DETAIL 1
TOTAL		324	~	

FOR INFORMATION ONLY

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DETAIL

SHEET NO.

8

JOINT SEAL
DETAILS

PROJECT NAME
LIBBY AREA BRIDGE DECKS

COUNTY
LINCOLN

PROJECT ID
NHPB-STPB 1-1(122)15

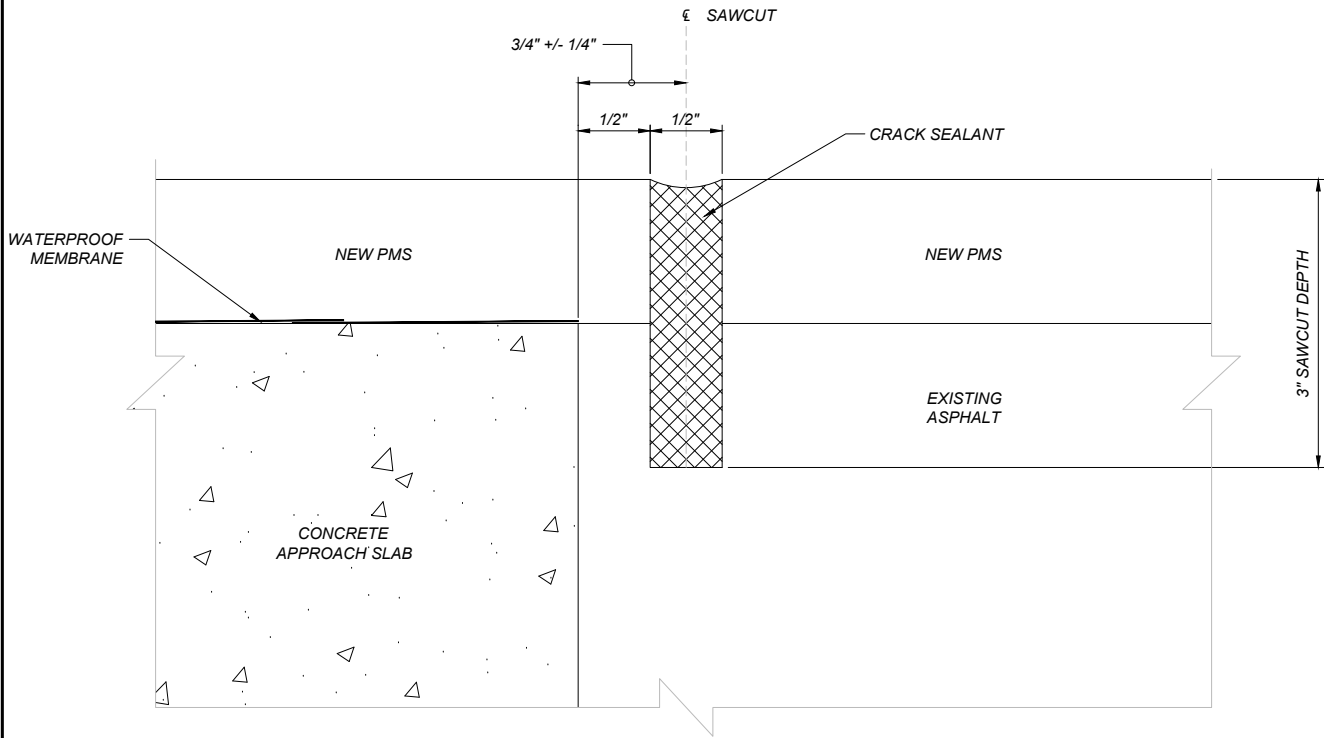
UPN
10513000

DESIGNED BY	RES	5/29/2026
REVIEWED BY	DJW	3/20/2026
CHECKED BY	BBL	3/20/2026
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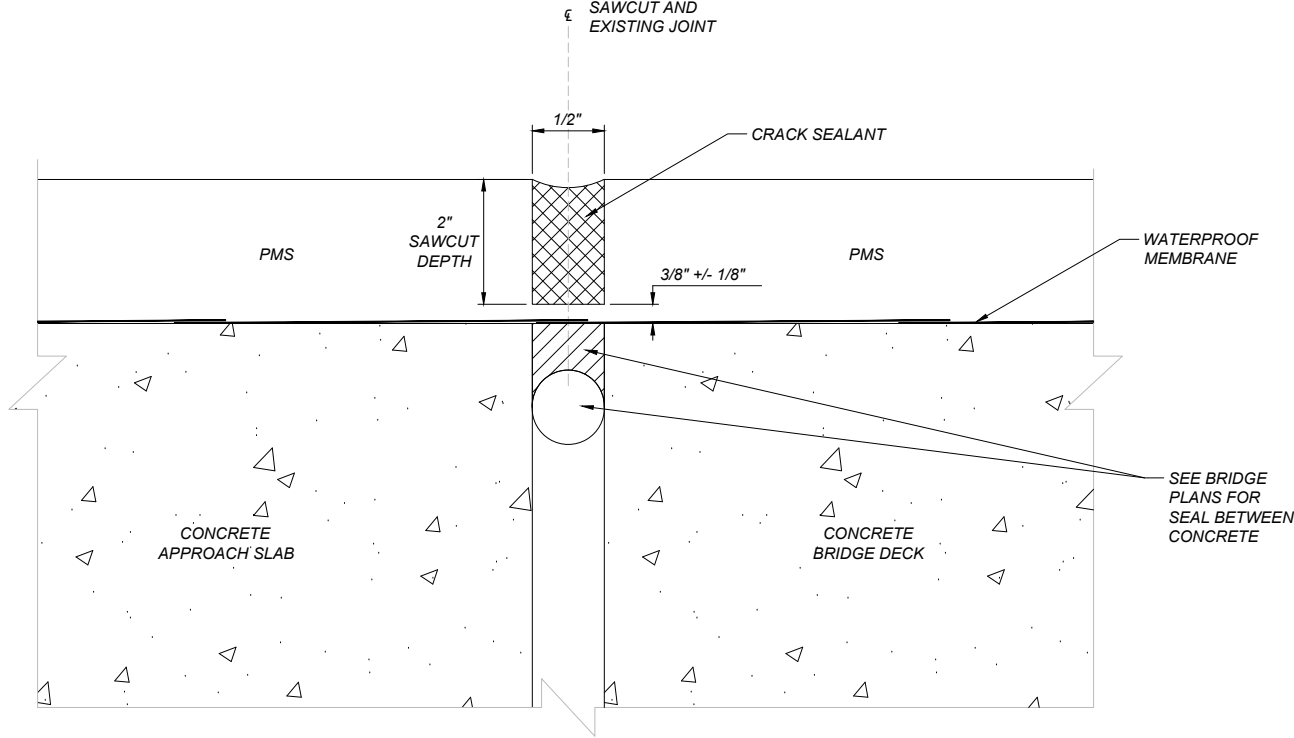


ROAD PLANS

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DETAIL 1
1/2 INCH JOINT SEAL AT END OF CONCRETE
NOT TO SCALE



DETAIL 2
1/2 INCH PAVED PANEL JOINT SEAL
NOT TO SCALE

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PLANS

SHEET NO.

9

PLAN SHEET
STR. NO. 05007
(LAKE CREEK)

PROJECT NAME
LIBBY AREA BRIDGE DECKS

COUNTY

LINCOLN

PROJECT ID

NHPB-STPB 1-1(122)15

UPN

10513000

DESIGNED BY
RES

5/29/2026

REVIEWED BY
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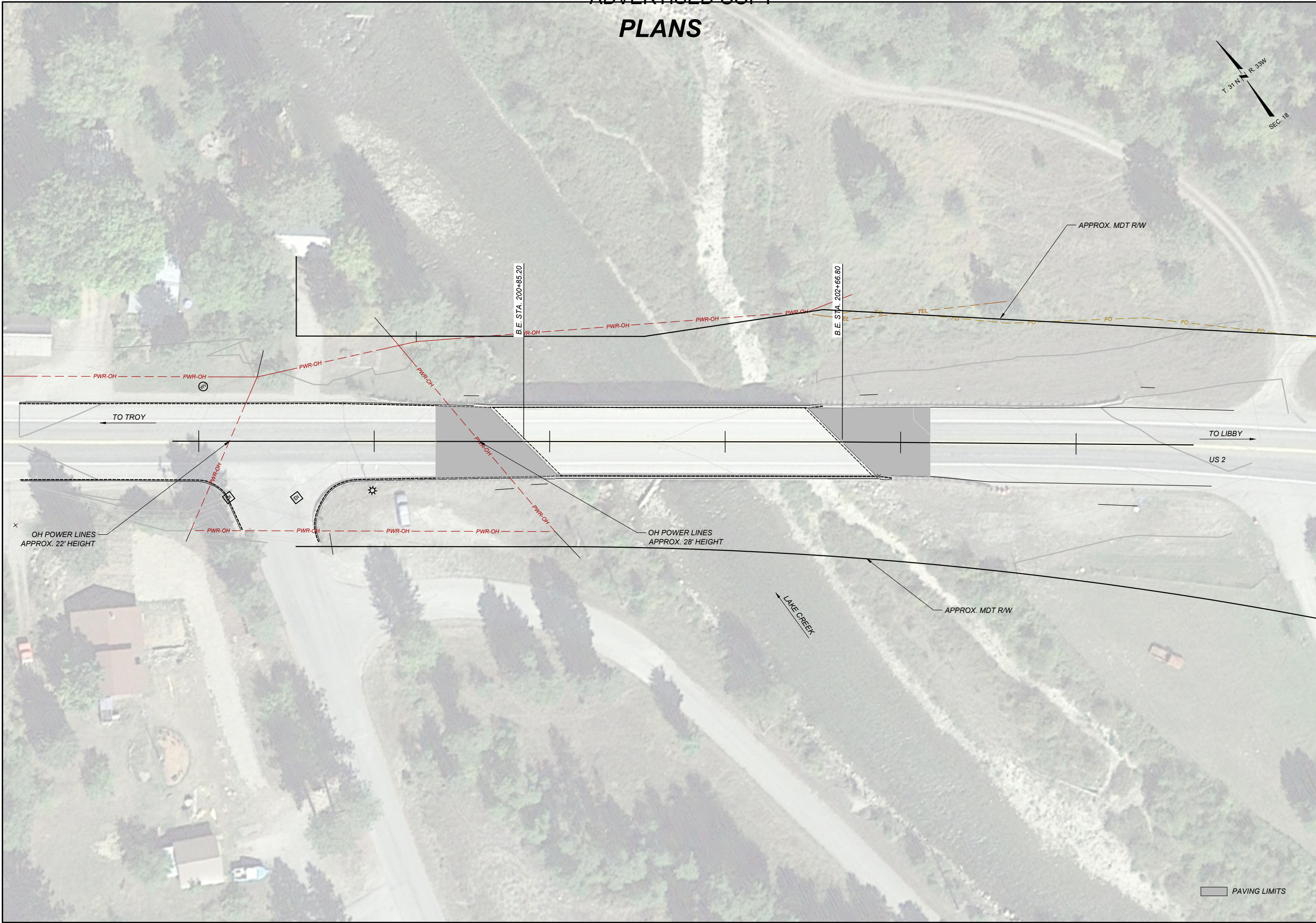
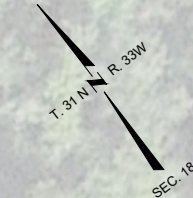
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ROAD PLANS

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PLANS

SHEET NO.

10

PLAN SHEET
STR. NO. 05009
(PARMENTER CREEK)

PROJECT NAME
LIBBY AREA BRIDGE DECKS

COUNTY

LINCOLN

PROJECT ID

NHPB-STPB 1-1(122)15

UPN

10513000

DESIGNED BY
RES

5/29/2026

REVIEWED BY
DJW

3/20/2026

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3/20/2026

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ROAD PLANS

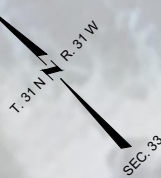
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STA. 1801+21.50
ASPHALT JOINT SEAL
DETAIL 1 ON SHEET 8

STA. 1801+41.50
ASPHALT JOINT SEAL
DETAIL 2 ON SHEET 8

STA. 1801+66.50
ASPHALT JOINT SEAL
DETAIL 2 ON SHEET 8

STA. 1801+86.50
ASPHALT JOINT SEAL
DETAIL 1 ON SHEET 8



EXISTING UTILITY CONDUIT
ATTACHED TO SIDE OF BRIDGE.

APPROACH SLAB
STA: 1801+21.50

B.E. STA. 1801+41.50

B.E. STA. 1801+66.50

APPROACH SLAB
STA: 1801+86.50

APPROX. MDT R/W

US 2

TO TROY

TO LIBBY

OH POWER LINES
APPROX. 19' HEIGHT

PROTECT STORM
OUTLETS IN
ABUTMENT WALL

APPROX. MDT R/W

PROTECT STORM
INLETS

PARMENTER CREEK

PAVING LIMITS



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PLANS

SHEET NO.

11

PLAN SHEET
STR. NO. 05010
(FLOWER CREEK)

PROJECT NAME
LIBBY AREA BRIDGE DECKS

COUNTY

LINCOLN

PROJECT ID

NHPB-STPB 1-1(122)15

UPN

10513000

DESIGNED BY

RES

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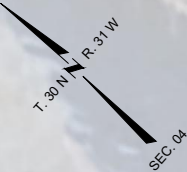
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MONTANA
Department of Transportation

ROAD PLANS

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STA. 1849+34.50
ASPHALT JOINT SEAL
DETAIL 1 ON SHEET 8

STA. 1849+54.50
ASPHALT JOINT SEAL
DETAIL 2 ON SHEET 8

STA. 1849+79.50
ASPHALT JOINT SEAL
DETAIL 2 ON SHEET 8

STA. 1849+99.50
ASPHALT JOINT SEAL
DETAIL 1 ON SHEET 8

EXISTING UTILITY CONDUIT
ATTACHED TO SIDE OF BRIDGE.

APPROACH SLAB
STA: 1849+34.50

B.E. STA. 1849+54.50

B.E. STA. 1849+79.50

APPROACH SLAB
STA: 1849+99.50

APPROX. MDT R/W

TO LIBBY

US 2

PROTECT STORM
OUTLETS IN
ABUTMENT WALL

EXISTING UTILITY CONDUIT
ATTACHED TO SIDE OF BRIDGE.

PROTECT STORM
INLETS

APPROX. MDT R/W

FLOWER CREEK

PAVING LIMITS



PLANS

SHEET NO.

12

PLAN SHEET
STR. NO. 05011
(BIG CHERRY CREEK)

PROJECT NAME
LIBBY AREA BRIDGE DECKS

COUNTY

LINCOLN

PROJECT ID

NHPB-STPB 1-1(122)15

UPN

10513000

DESIGNED BY

RES 5/29/2026

REVIEWED BY

DJW 3/20/2026

CHECKED BY

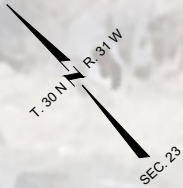
BBL 3/20/2026

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MONTANA
Department of Transportation

ROAD PLANS

5/28/2026 4:39 PM



APPROX. MDT R/W

TO LIBBY

TO KALISPELL

US 2

BIG CHERRY CREEK

PROTECT STORM
INLETS

B.E. STA. 2018+80.00

B.E. STA. 2020+31.50

APPROX. MDT R/W

PAVING LIMITS



ADVERTISED COPY

PLANS

SHEET NO.

13

PLAN SHEET
STR. NO. 05012
(LIBBY CREEK)

PROJECT NAME
LIBBY AREA BRIDGE DECKS

COUNTY

LINCOLN

PROJECT ID

NHPB-STPB 1-1(122)15

UPN

10513000

DESIGNED BY	5/29/2026
REVIEWED BY	3/20/2026
CHECKED BY	3/20/2026
RES	
DJW	
BBL	

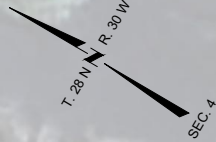
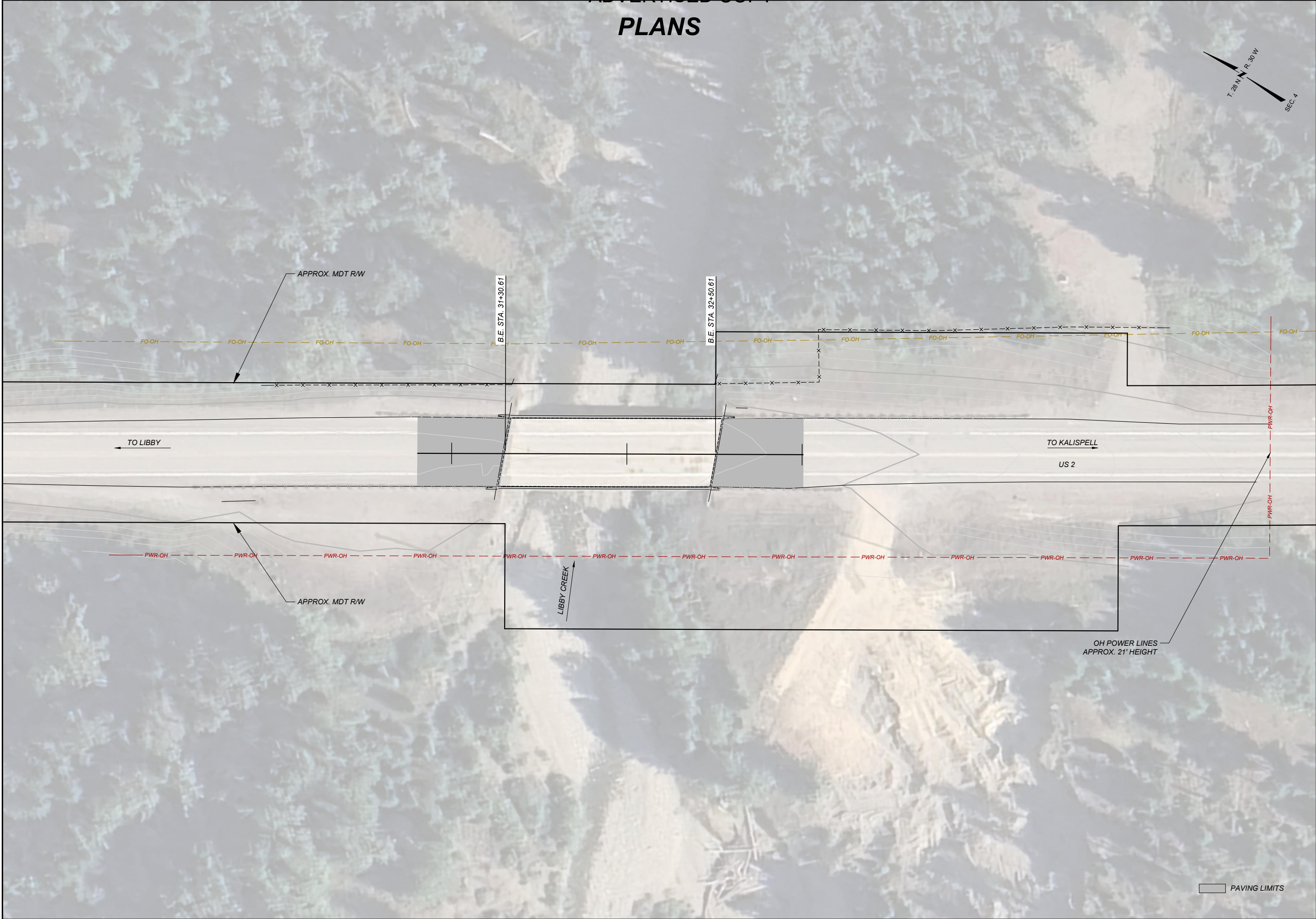
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MONTANA
Department of Transportation

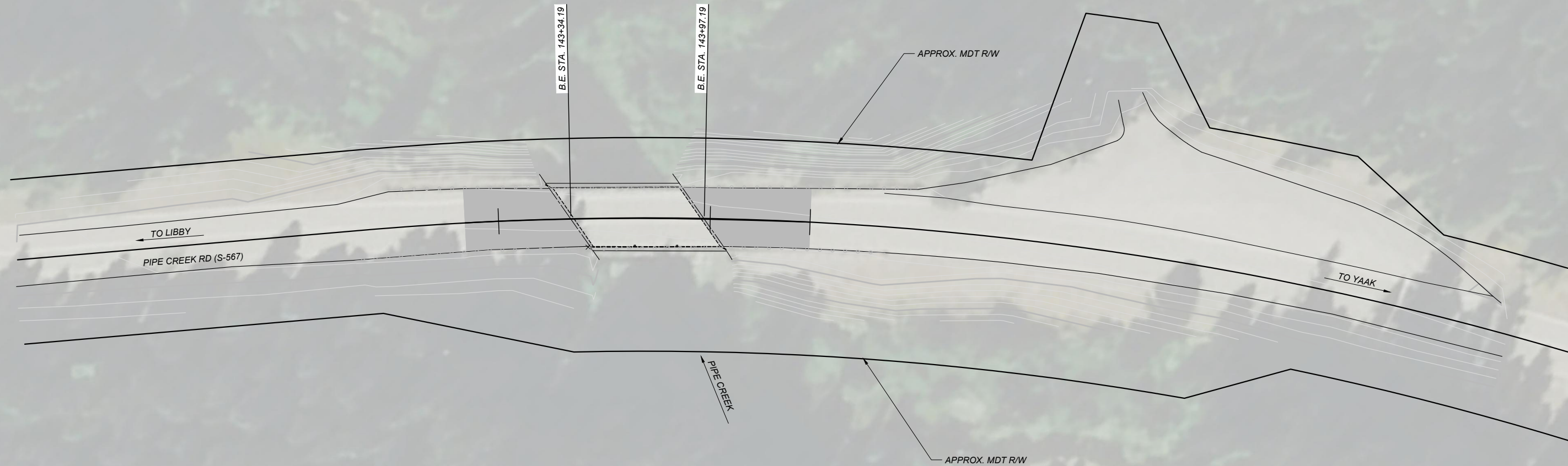
ROAD PLANS

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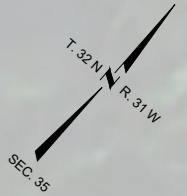


PAVING LIMITS





PAVING LIMITS



ASSOCIATED PROJECT AGREEMENT NUMBERS	
P.E.	NHPB-STPB 1-1(121)15

BRIDGE IDENTIFICATION	
MDT STRUCTURE I.D. NUMBER	NBI STRUCTURE I.D. NUMBER
05007	P00001015+03251
05009	P00001031+01281
05010	P00001032+00381
05011	P00001035+02771
05012	P00001044+07961
06932	S00567007+04011

MONTANA DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS AND QUANTITIES

FEDERAL AID PROJECT NHPB-STPB 1-1(122)15

LIBBY AREA BRIDGE DECKS

LINCOLN COUNTY

APPROVED

By Brady Lassila at 2:24 pm, Jul 02, 2026



SCALES SHOWN ON BRIDGE PLANS SHEETS ARE FOR HALF SIZE (11X17) PRINTS
FULL SIZE PRINTS ARE APPROXIMATELY TWICE ORIGINAL SCALE

LIST OF DRAWINGS		
SHEET NO.	DWG. NO.	TITLE
B1	21217	LIST OF DRAWINGS AND ESTIMATED BRIDGE PLAN QUANTITIES
B2	21218	GENERAL NOTES AND BRIDGE WORK SUMMARY
B3	21219	CONSTRUCTION PHASE DIAGRAMS SHEET 1 OF 2
B4	21220	CONSTRUCTION PHASE DIAGRAMS SHEET 2 OF 2
B5	21221	DECK REPAIR DETAILS
B6	21222	JOINT DETAILS - 05007
B7	21223	JOINT DETAILS - 05009 & 05010
B8	21224	JOINT DETAILS - 06932

ESTIMATED BRIDGE PLAN QUANTITIES																		
MDT STRUCTURE I.D. NUMBER	FEATURE INTERSECTED	GENERAL LAYOUT DRAWING NO.	REMOVE GUARD ANGLE (LN. FT.)	REMOVE ASPHALT FROM DECK (YD²)	TRANSVERSE DECK GROOVING (YD²)	BRIDGE DECK CRACK SEAL (YD²)	BRIDGE DECK HYDRODEMOLITION (YD²)	JOINT SEALS - POLYURETHANE (LN. FT)	PAINT EXISTING STRUCTURAL STEEL (YD²)	EXPANSION JOINT - PRECOMPRESSED (LN. FT)	\$ CLASS A BRIDGE DECK REPAIR (YD²)	\$ CLASS B BRIDGE DECK REPAIR (YD²)	CONCRETE CLASS OVERLAY (YD²)	* ESTIMATED OVERLAY VOLUME (YD³)	FURNISH PPC OVERLAY (YD³)	PLACE PPC OVERLAY (YD²)	PREPARE DECK (YD²)	WATERPROOF MEMBRANE (YD²)
05007	LAKE CREEK	1786/14226	333.8		733.9	776.1	769.6		12.0	116.3	7.8		769.6	42.8				
05009	PARMENTER CREEK	9049		472.1		472.1		128.5			23.6						472.1	472.1
05010	FLOWER CREEK	9053		479.7		479.7		130.0			24.0						479.7	479.7
05011	BIG CHERRY CREEK	11439	150.1		1115.6	1154.4	1143.1				11.5	5.0	1143.1	63.5				
05012	LIBBY CREEK	14130	79.9		501.3	531.1	524.5				5.3		524.5	29.1				
06932	PIPE CREEK	N/A		188.3	173.1			69.0	2.0		9.4				3.9	188.3	188.3	
PROJECT TOTAL			563.8	1140.1	2523.9	3413.4	2437.2	327.5	14.0	116.3	81.6	5.0	2437.2	135.4	3.9	188.3	1140.1	951.8

* NOTE: Estimated overlay concrete volume will not be measured for payment. The quantities shown will be used to determine overrun quantities for payment if applicable.
\$ NOTE: Specific Class A & B Deck Repair areas are not identified in the contract. Class A & B Deck Repair quantity for this location is provided as a contingency. The Project Manager will identify and authorize any Class A & B Deck Repair, if needed.

SHEET NO.
B1

LIST OF DRAWINGS AND
ESTIMATED BRIDGE PLAN
QUANTITIES

SCALE: NO SCALE

PROJECT NAME
LIBBY AREA BRIDGE DECKS

MDT STRUCTURE ID
05007, 05009, 05010,
05011, 05012, 06932

FEDERAL AID PROJECT
NHPB-STPB 1-1(122)15

COUNTY
LINCOLN

REVISED
REVISED
REVISED
CHECKED
DRAWN
DESIGNED

3-20-2026
5-29-2026
3-20-2026
K.F.M.
A.L.T.
B.B.L.

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UPN NUMBER
10513000

DRAWING NO.
21217



GENERAL NOTES

Specifications
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.

See the awarded contract special provisions for the version of the Montana Department of Transportation Standard Specifications for Road and Bridge Construction that will be used on this project. Design was prepared in accordance with AASHTO LRFD Bridge Design Specifications Tenth Edition – 2024.

Ensure girder stability throughout construction. Meet all applicable sections of AASHTO LRFD Bridge Construction Specifications, 4th Edition with 2020 Interim Revisions.

Existing bridge plans are available upon request from the Montana Department of Transportation.

Stations shown on the bridge as-built plans are horizontal ground distance stations, not state plane grid. Dimensions shown on the bridge plans are horizontal ground distance. The combination scale factor (CFS) is not utilized on this project.

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 as approved by the Project Manager.

Right and Left side of the structure are referenced to increasing stationing.

Bridge Deck Repair
Establish a control elevation at each bridge. Survey the existing deck and finished grade before removing or milling the deck.

See the Standard Specifications for allowable deck repair concrete options.

Quantities shown for Class A and B Bridge Deck Repair may vary from actual field quantities.

Use Concrete Class Overlay on bridge decks requiring thick overlays.

Use Hydrodemolition to reach final milling depth shown on the plans.

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

Bridge Deck Crack Seal
Flood seal the entire bridge deck surface, including approach slabs.

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

Include the cost of cleaning existing reinforcing steel in associated items of work.

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 the unit price bid for Class A Bridge Deck Repair, unless noted otherwise.

The suffix E denotes epoxy coated reinforcing steel.

Unless specified otherwise on the drawings, the minimum cover measured from the face of the concrete to face of any reinforcing steel is 2" except as noted below:

Bottom of slab	1"
Top of slab	2½"
Bottom of Abutment Caps	3"
Concrete barriers and curbs	1½"

Concrete cover at any tie bar is ½" less than what is listed above.

Traffic Control
Do not attach the temporary barrier to the new overlay.

See Standard Specifications, Special Provisions for Traffic Control and Sequence of Operations, and Construction Phase Diagrams.



BRIDGE WORK SUMMARY														
MDT STRUCTURE I.D. NUMBER	FEATURE INTERSECTED	REMOVE GUARD ANGLE	BRIDGE DECK MILLING	CLASS A DECK REPAIR	CLASS B DECK REPAIR	MODIFIED CONCRETE OVERLAY	TRANSVERSE DECK GROOVING	CLEAN & PAINT BEARINGS	EXPANSION JOINT PRECOMPRESSED	REMOVE ASPHALT OVERLAY	ASPHALT OVERLAY	POLYURETHANE JOINT SEALS	POLYESTER POLYMER CONCRETE OVERLAY	BRIDGE DECK CRACK SEAL
05007	LAKE CREEK	✓	✓	✓		✓	✓	✓	✓					✓
05009	PARMENTER CREEK			✓						✓	✓	✓		✓
05010	FLOWER CREEK			✓						✓	✓	✓		✓
05011	BIG CHERRY CREEK	✓	✓	✓	✓	✓	✓							✓
05012	LIBBY CREEK	✓	✓	✓		✓	✓							✓
06932	PIPE CREEK			✓			✓	✓		✓		✓	✓	INCLUDED IN PPC

SHEET NO.
B2

GENERAL NOTES AND BRIDGE
WORK SUMMARY

SCALE: NO SCALE

PROJECT NAME
LIBBY AREA BRIDGE DECKS

MDT STRUCTURE ID
05007, 05009, 05010,
05011, 05012, 06932

FEDERAL AID PROJECT
NHPB-STPB 1-1(122)15

COUNTY
LINCOLN

REVISED

REVISED

REVISED

CHECKED

DRAWN

DESIGNED

K.F.M.

R.L.T.

B.B.L.

3-20-2026

5-29-2026

3-20-2026

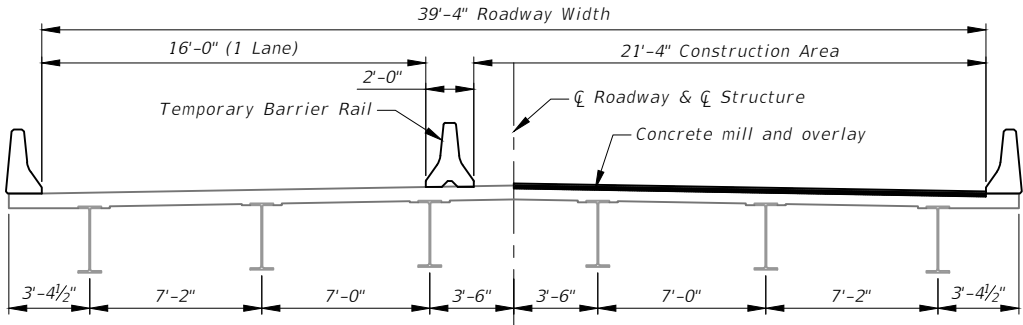
MDTA
MONTANA
DEPARTMENT OF TRANSPORTATION

BRIDGE BUREAU

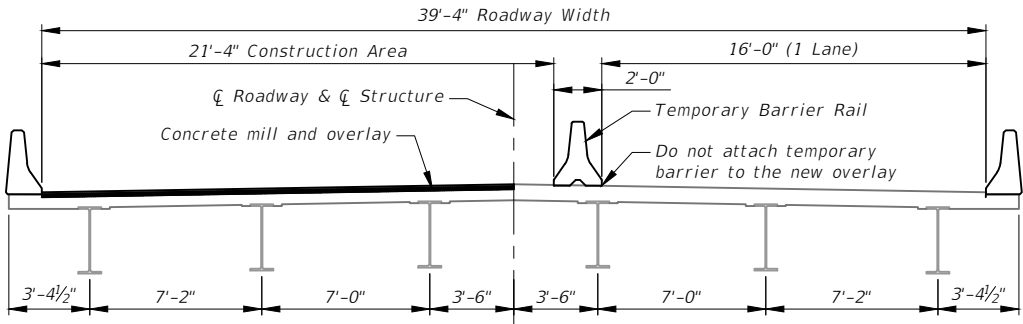
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10513000

DRAWING NO.
21218



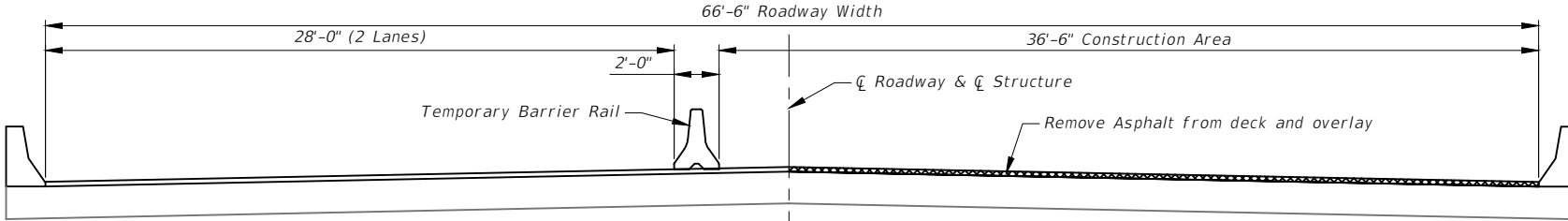
Phase 1



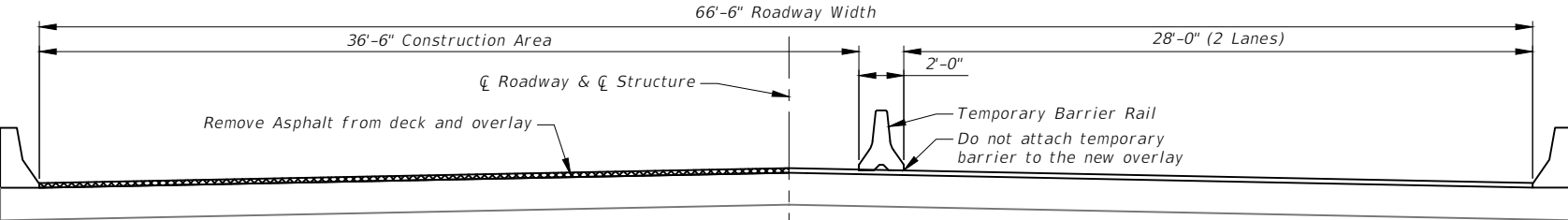
Phase 2

CONSTRUCTION PHASING DETAIL

Scale - 1/8" = 1-0
(Bridge 05007 Lake Creek)



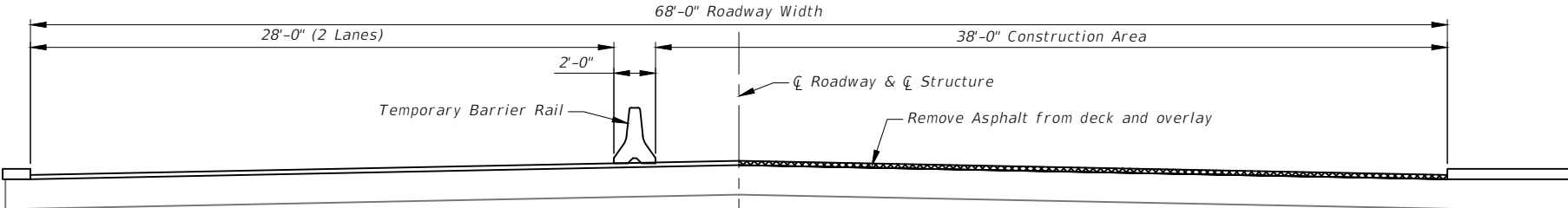
Phase 1



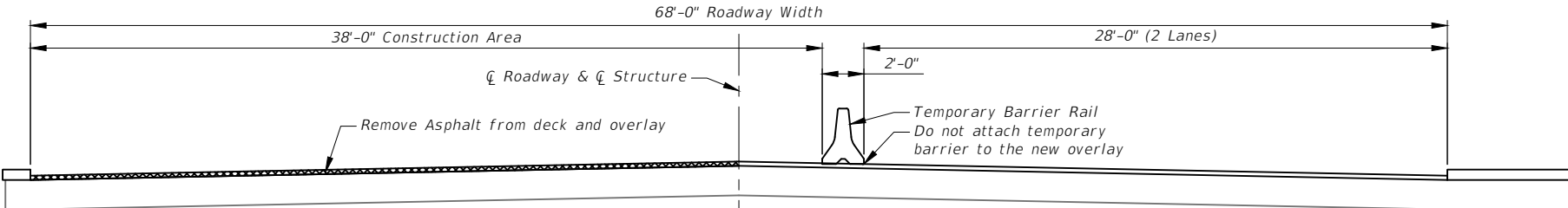
Phase 2

CONSTRUCTION PHASING DETAIL

Scale - 1/8" = 1-0
(Bridge 05009 Parmenter Creek)



Phase 1



Phase 2

CONSTRUCTION PHASING DETAIL

Scale - 1/8" = 1-0
(Bridge 05010 Flower Creek)

SHEET NO.
B3

CONSTRUCTION PHASE
DIAGRAMS
SHEET 1 OF 2

PROJECT NAME
LIBBY AREA BRIDGE DECKS

MDT STRUCTURE ID
05007, 05009, 05010,
05011, 05012, 06932

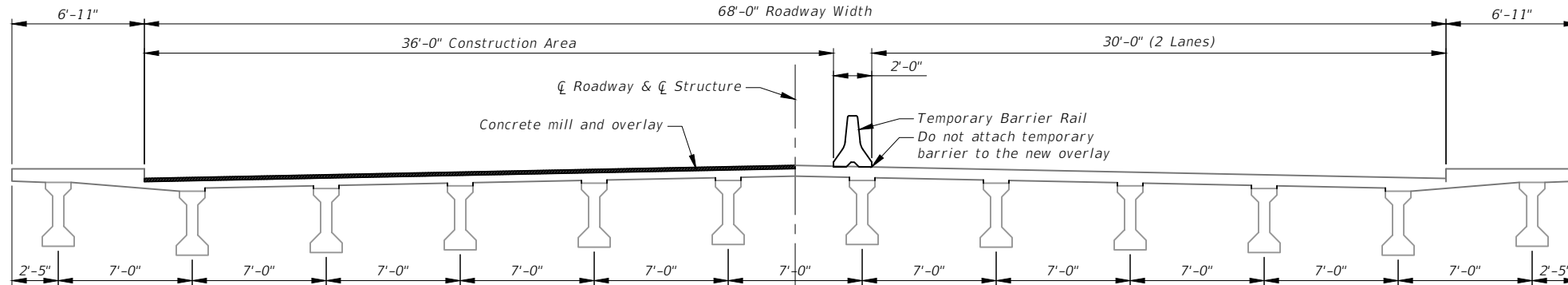
FEDERAL AID PROJECT
NHPB-STPB 1-1(122)15

COUNTY
LINCOLN

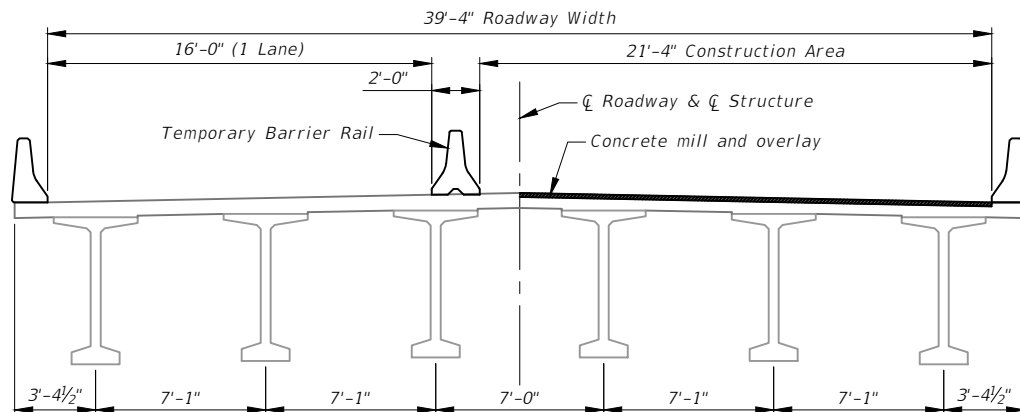
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REVISED	REVISED	REVISED	REVISED	DRAWN	R.L.T.	5-29-2026
REVISED	REVISED	REVISED	REVISED	DESIGNED	R.B.L.	3-20-2026



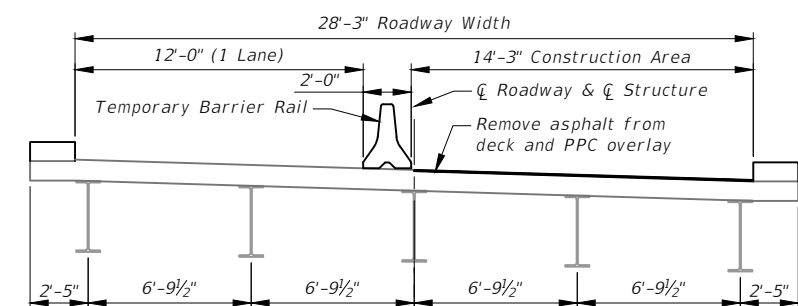
UPN NUMBER
10513000
DRAWING NO.
21219



Scale - $\frac{1}{8}" = 1-0$
(Bridge 05011 Big Cherry Creek)



The diagram illustrates the layout of a bridge deck with a total width of 39'-4" Roadway Width. The layout is divided into two main sections: a 21'-4" Construction Area on the left and a 16'-0" (1 Lane) section on the right. The centerline of the roadway and the structure is marked as 'C Roadway & C Structure'. The construction area includes a 'Concrete mill and overlay' layer. The 16'-0" section contains a 'Temporary Barrier Rail' and a note: 'Do not attach temporary barrier to the new overlay'. The bridge deck is supported by seven piers. The spacing between the piers is as follows: 3'-4 1/2" between the first and second pier, 7'-1" between the second and third pier, 7'-1" between the third and fourth pier, 7'-0" between the fourth and fifth pier, 7'-1" between the fifth and sixth pier, 7'-1" between the sixth and seventh pier, and 3'-4 1/2" between the seventh pier and the right edge of the deck.



The diagram illustrates a 28'-3" Roadway Width. The total width is divided into a 14'-3" Construction Area on the left and a 12'-0" (1 Lane) on the right. The centerline of the roadway and the centerline of the structure are marked. The construction area includes the removal of asphalt from the deck and PPC overlay. A 2'-0" Temporary Barrier Rail is shown on the right side of the construction area. The lane width is 12'-0". The diagram also shows the dimensions of the construction area and the lane width.

28'-3" Roadway Width

14'-3" Construction Area

12'-0" (1 Lane)

2'-0"

Temporary Barrier Rail

Do not attach temporary barrier to the new overlay

Remove asphalt from deck and PPC overlay

2'-5"

6'-9 1/2"

6'-9 1/2"

6'-9 1/2"

6'-9 1/2"

2'-5"

				UPN NUMBER 10513000	
REVISED		CHECKED	K.F.M.	3-20-2026	DRAWN R.L.T. 5-29-2026 DESIGNED B.B.L. 3-20-2026
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REVISED		DESIGNED			
REVISED					
SHEET NO. B4		DRAWING NO. 21220			

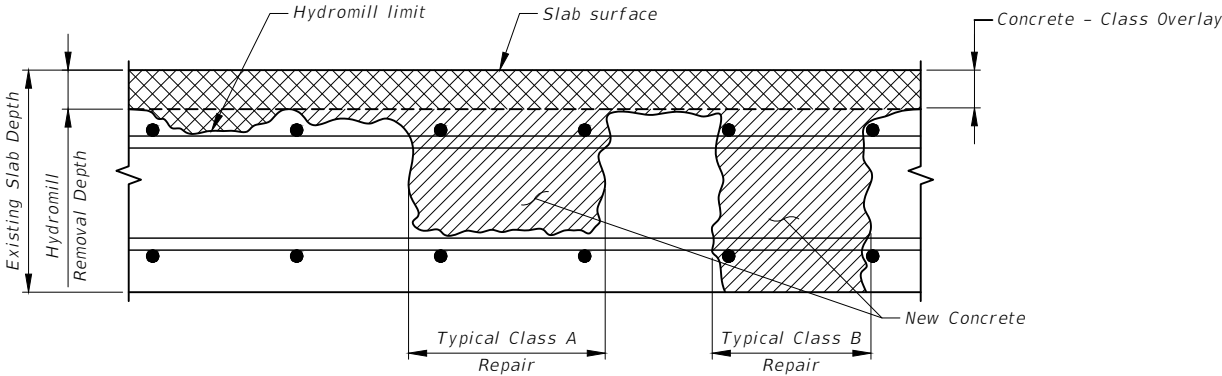
TABLE OF CONCRETE REMOVAL AND OVERLAY DEPTHS

MDT STRUCTURE NUMBER	FEATURE CROSSED	GENERAL LAYOUT DRAWING NO.	*ANTICIPATED MILL DEPTH (IN)	ANTICIPATED CONCRETE OVERLAY THICKNESS (IN)	BRIDGE DECK CRACK SEAL	TOTAL GRADE RAISE (IN)
05007	Lake Creek	1786/14226	2	2	Yes	0
05011	Big Cherry Creek	11439	2	2	Yes	0
05012	Libby Creek	14130	2	2	Yes	0

NOTE: Match existing crown or superelevation as applicable.

* NOTE: Mill depth approximate only. If cover is less than 2" mill to top mat of reinforcing steel.

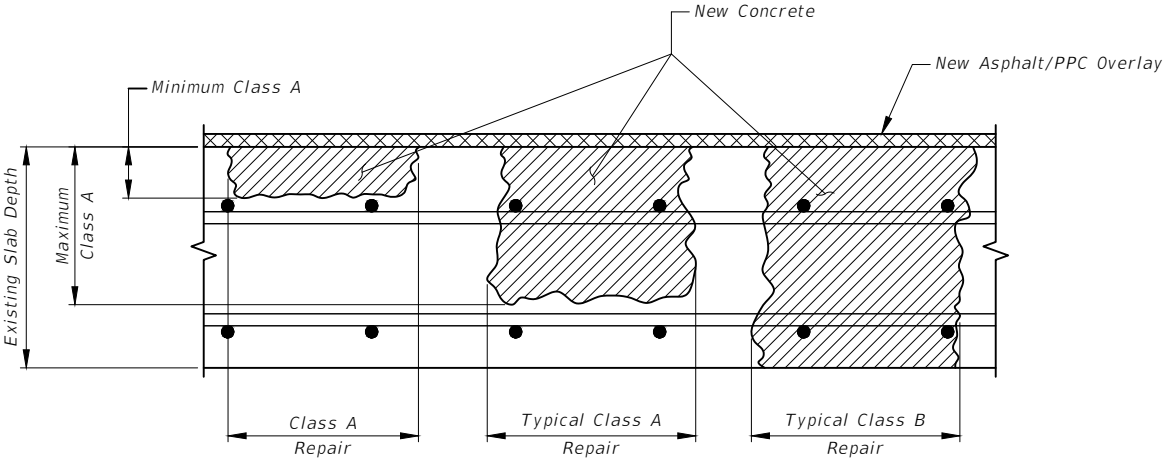
NOTE: Bridge Deck Milling to be done with hydromilling machine for all structures requiring concrete overlay.



NOTE: For removal depths, see Table of Concrete Removal and Overlay Depths, this sheet.

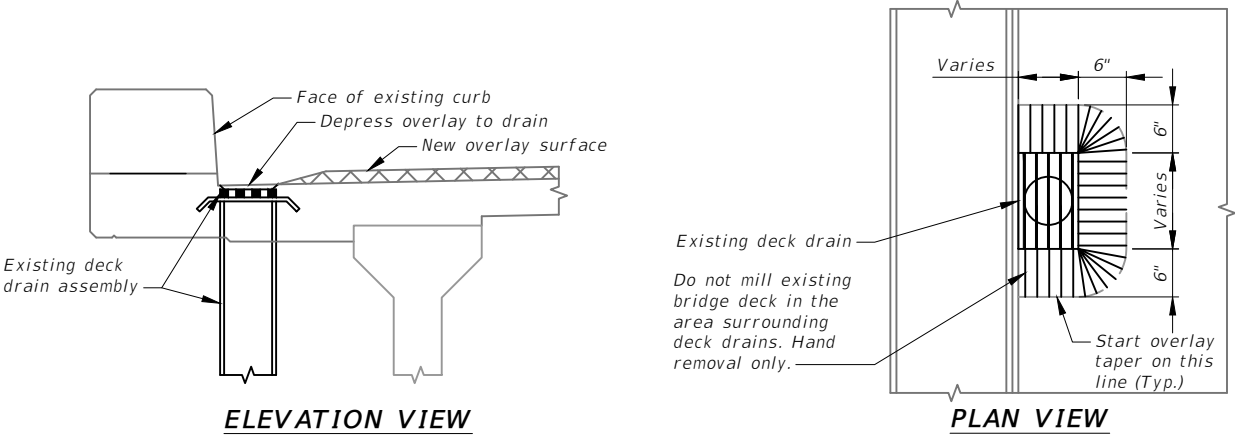
BRIDGE DECK REPAIR AND CONCRETE OVERLAY DEFINITION

No Scale



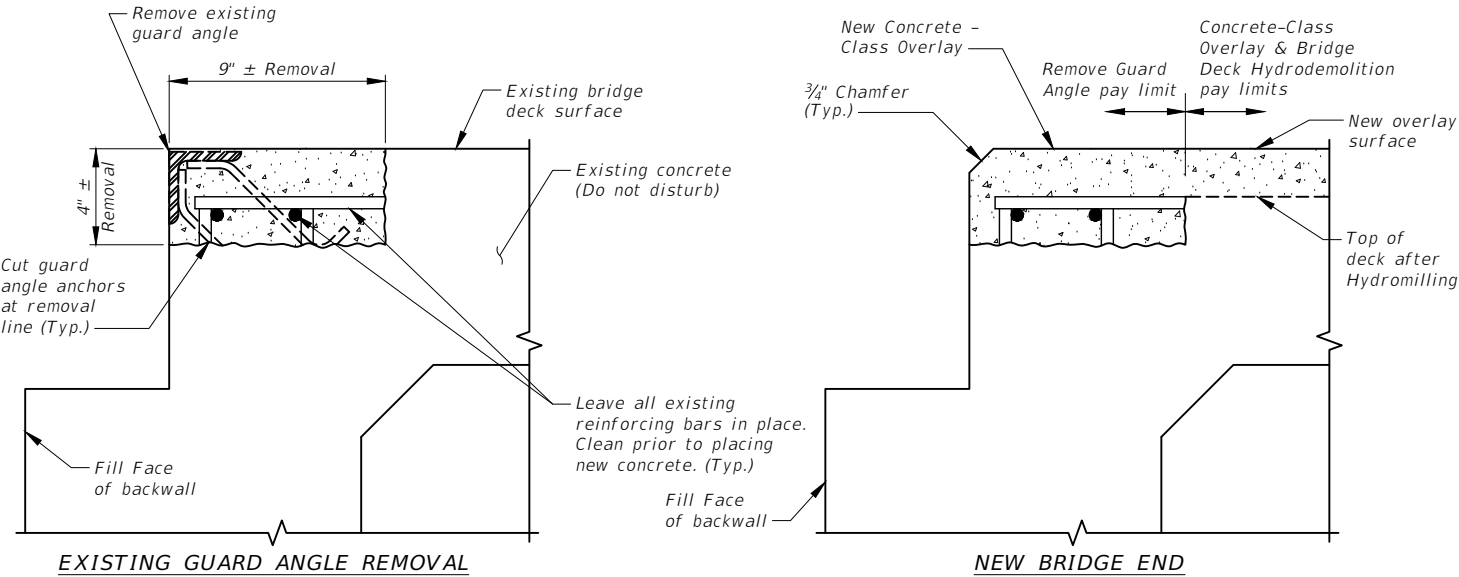
BRIDGE DECK REPAIR AND ASPHALT/PPC OVERLAY DEFINITION

No Scale



OVERLAY TREATMENT AT DECK DRAINS

Scale: 1/2" = 1'-0"



NOTE: If two transverse reinforcing bars are not present within 3" of the top of the slab, place new epoxy coated #4 transverse bars as necessary so there are two bars within the repair area. Ensure new bars have a minimum 2 1/2" clear cover.

NOTE: Include all costs associated with removing the existing guard angle, placing new reinforcing steel and concrete, and removing and replacing any approach asphalt that is required to complete the work in the unit price bid for Remove Guard Angle.

GUARD ANGLE REMOVAL DETAIL

No Scale

SHEET NO.
B5

DECK REPAIR DETAILS

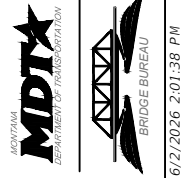
PROJECT NAME
LIBBY AREA BRIDGE DECKS

MDT STRUCTURE ID
05007, 05009, 05010,
05011, 05012, 06932

FEDERAL AID PROJECT
NHPB-STPB 1-1(122)15

COUNTY
LINCOLN

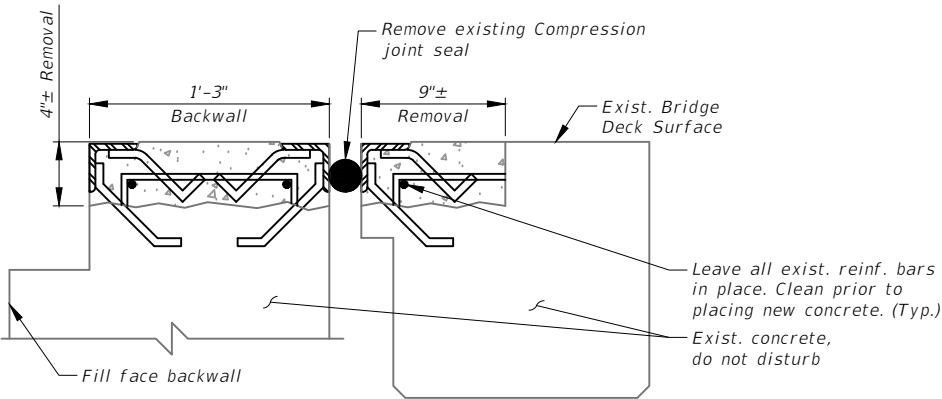
REVISED	3-20-2026
REVISED	K.F.M.
REVISED	5-29-2026
CHECKED	R.L.T.
DRAWN	3-20-2026
DESIGNED	10513000BREHZ01.dwg \ B5



UPN NUMBER
10513000
DRAWING NO.
21221

TABLE OF EXPANSION GAPS - PRECOMPRESSED

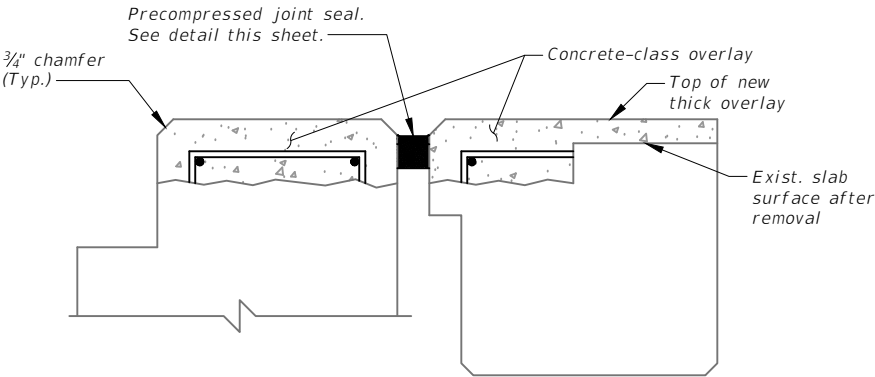
MDT STRUCTURE NUMBER	FEATURE CROSSED	GENERAL LAYOUT DRAWING NO.	LOCATION	MINIMUM JOINT OPENING @ 120° F (IN)	JOINT OPENING @ 60° F (IN)	MAXIMUM JOINT OPENING @ -30° F (IN)
05007	Lake Creek	1786/14226	Bent No. 1	1¾"	1⅝"	2¼"
05007	Lake Creek	1786/14226	Bent No. 4	1⅞"	1⅞"	2⅞"



NOTE: See Guard Angle Removal Detail on Sheet No. B5 for further notes and details.

EXISTING JOINT & GUARD ANGLE REMOVAL

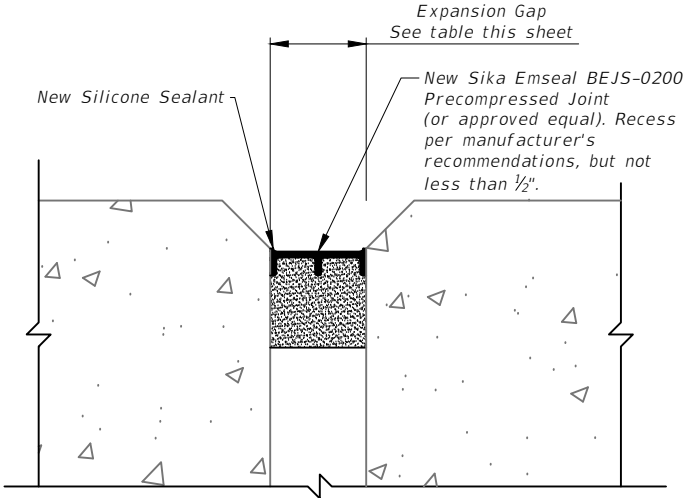
No Scale
(05007 LAKE CREEK)



NOTE: See New Bridge End Detail on Sheet No. B5 for further notes and details.

NEW BRIDGE END DETAIL

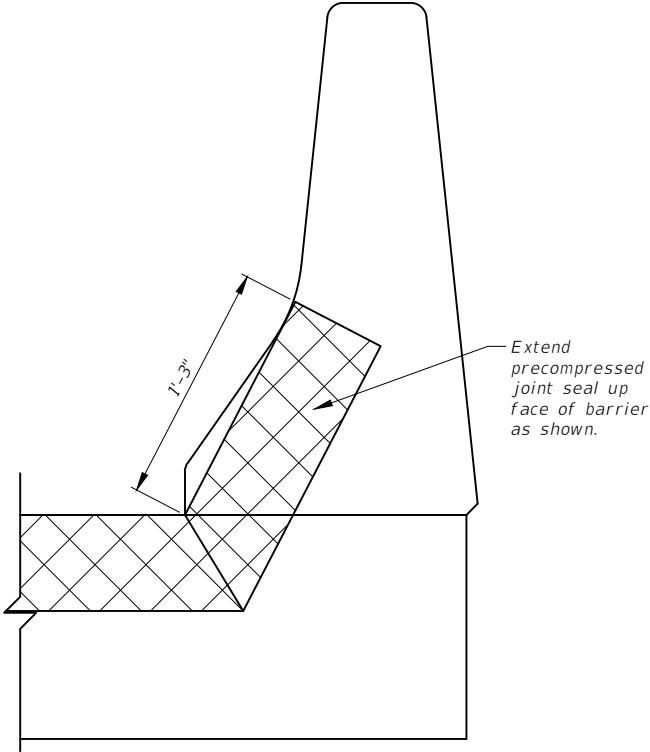
No Scale
(05007 LAKE CREEK)



NOTE: For details of the precompressed expansion joint see Special Provisions.

NEW PRECOMPRESSED JOINT SEAL DETAIL

Scale - 3" = 1'-0



EXPANSION JOINT PRECOMPRESSED SEAL EXTENSION AT BARRIER

Scale - 1" = 1'-0

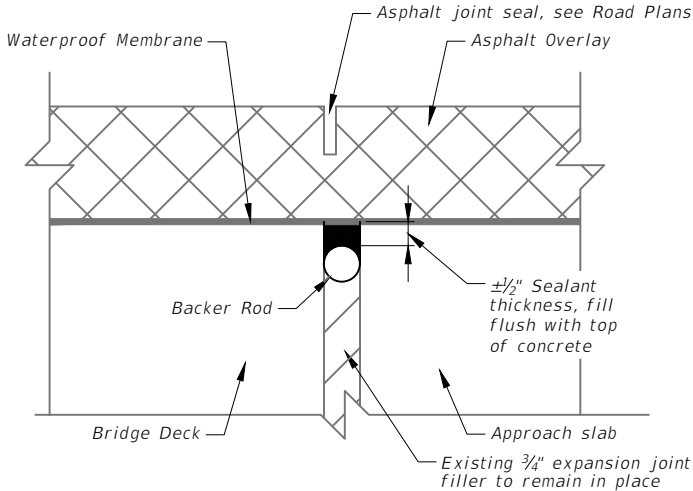
SHEET NO. B6	
JOINT DETAILS - 05007	SCALE: AS NOTED
PROJECT NAME LIBBY AREA BRIDGE DECKS	MDT STRUCTURE ID 05007, 05009, 05010, 05011, 05012, 06932
FEDERAL AID PROJECT NHPB-STPB 1-1(122)15	COUNTY LINCOLN
REVISED	3-20-2026
REVISED	5-29-2026
REVISED	3-20-2026
CHECKED	K.F.M.
DRAWN	R.L.T.
DESIGNED	B.B.L.
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UPN NUMBER 10513000	
DRAWING NO. 21222	



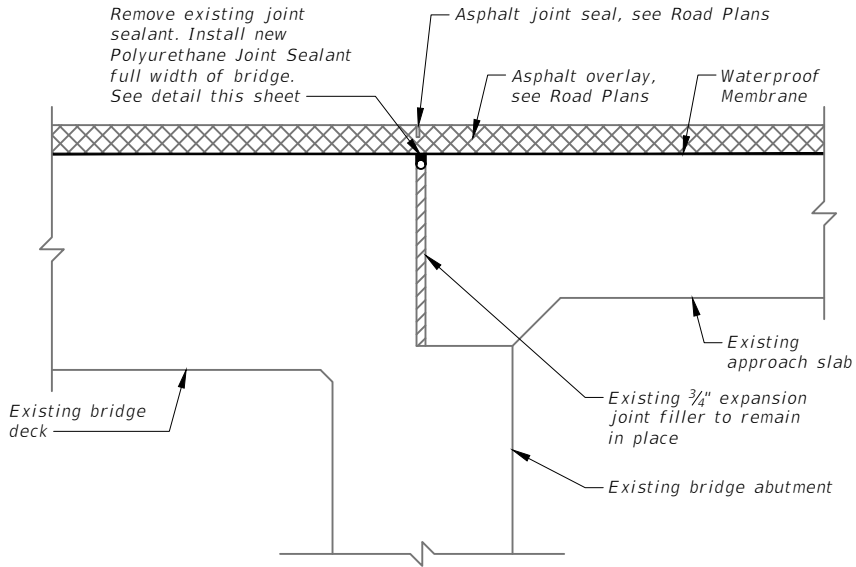


TABLE OF ASPHALT REMOVAL AND OVERLAY DEPTHS				
MDT STRUCTURE NUMBER	FEATURE CROSSED	GENERAL LAYOUT DRAWING NO.	ASPHALT REMOVAL DEPTH (FT) *	ASPHALT OVERLAY (FT) §
05009	Parmenter Creek	9049	0.2	0.2
05010	Flower Creek	9053	0.2	0.2

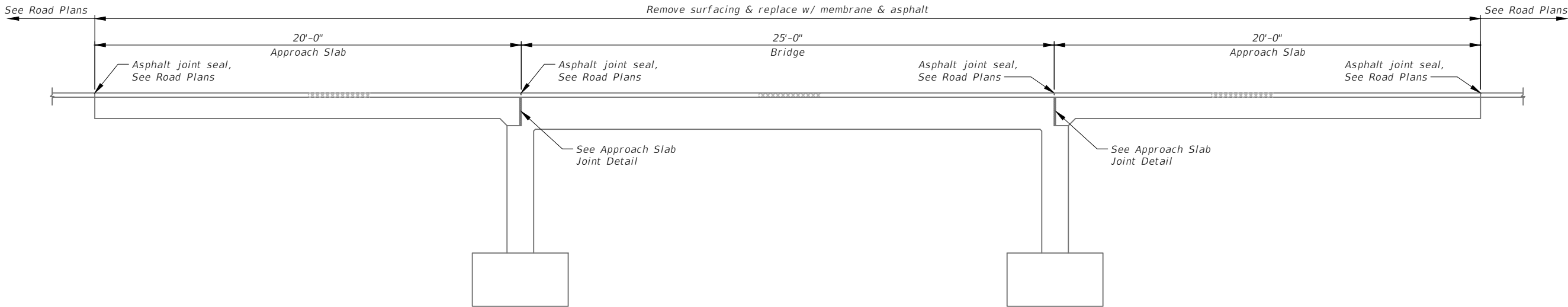
NOTE: Match existing crown or superelevation as applicable.
* NOTE: Remove asphalt to concrete deck. See special provisions.
§ NOTE: See Roadway Plans



POLYURETHANE JOINT SEALANT DETAIL
No Scale



APPROACH SLAB JOINT DETAIL
No Scale



SURFACING REPLACEMENT DETAIL
No Scale
(Strs. 05009 & 05010)

SHEET NO.
B7

JOINT DETAILS -
05009 & 05010

PROJECT NAME
LIBBY AREA BRIDGE DECKS

FEDERAL AID PROJECT
NHPB-STPB 1-1(122)15

MDT STRUCTURE ID
05007, 05009, 05010,
05011, 05012, 06932

COUNTY
LINCOLN

REVISED	REVISED	REVISED	REVISED	CHECKED	DRAWN	DESIGNED
				K.F.M.	R.L.T.	B.B.L.
				3-20-2026	5-29-2026	3-20-2026

MDTA
MONTANA
DEPARTMENT OF TRANSPORTATION

BRIDGE BUREAU

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UPN NUMBER
10513000

DRAWING NO.
21223

SCALE: AS NOTED

* NOTE: Remove asphalt to concrete deck. See Special Provisions.



JOINT REPLACEMENT (ABUTMENT 2)

STEP NO. 1 (Wet PPC)

STEP NO. 2 (Cured PPC)

DETAIL A - POLYURETHANE JOINT (ABUTMENT 1)

DETAIL B - POLYURETHANE JOINT (ABUTMENT 2)

NOTE: Remove existing Joint Sealant and replace with new polyurethane joint sealant according to the Special Provisions and manufacturer recommendations.

NOTE: Place joint vertical and directly adjacent to the expansion plate.

				6/2/2026 2:01:39 PM 10513000BRREHZ01.dwg \ B8	
UPN NUMBER 10513000		DRAWING NO. 21224		SHEET NO. B8	
REVISED REVISED REVISED	CHECKED K.F.M. 3-20-2026	DRAWN R.L.T. 5-29-2026	DESIGNED B.B.L. 3-20-2026	COUNTY LINCOLN	
PROJECT NAME LIBBY AREA BRIDGE DECKS				MDT STRUCTURE ID 05007, 05009, 05010, 05011, 05012, 06932	
FEDERAL AID PROJECT NHPB-STPB 1-1(122)15				SCALE: AS NOTED	
JOINI DETAILS - 06932				SHEET NO. B8	