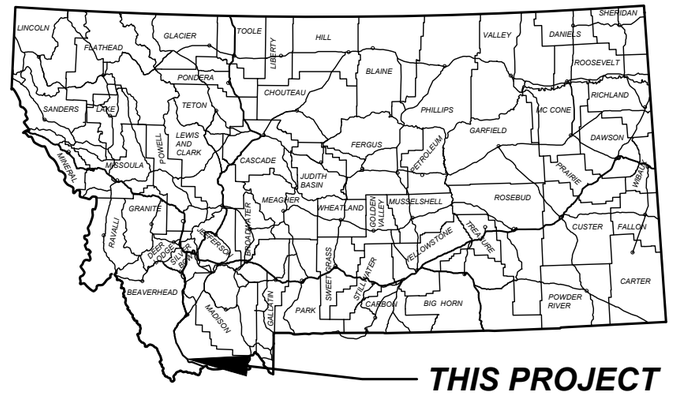
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MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NHPB 15-1(136)0
MINOR BRIDGE REHABILITATION
I-15 BRIDGE DECKS - S OF DILLON
BEAVERHEAD COUNTY

LENGTH N/A MILES

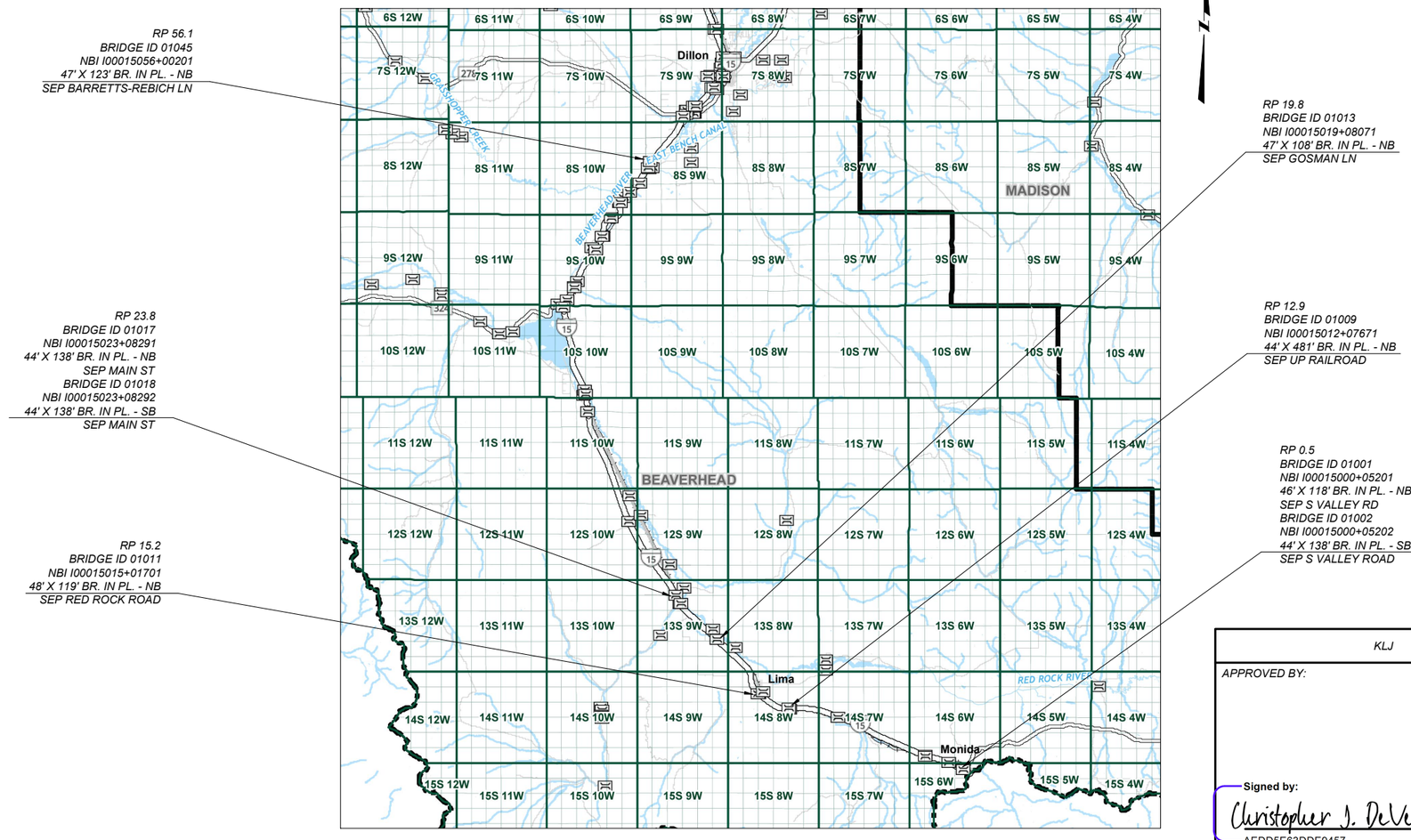
PROJECT DESIGN DATA

SEE SHEET 2

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R/W	
I.C.	
P.E.	NHPB 15-1(135)0

RELATED PROJECTS

SURFACING SOURCES - CONTRACTOR FURNISHED



KLJ

APPROVED BY:

MONTANA
CHRISTOPHER J. DEVERNIERO
23788 PE
LICENSED PROFESSIONAL ENGINEER

Signed by: Christopher J. DeVerniero 3/3/2026
AED5E63DDE9457... DATE

MONTANA
DEPARTMENT OF TRANSPORTATION

DocuSigned by: Kelly Williams 3/3/2026
EE7E5DDAB5A7471... DATE

SHEET NO. 01

TITLE

PROJECT NAME: I-15 BRIDGE DECKS - S OF DILLON
COUNTY: BEAVERHEAD
PROJECT ID: NHPB 15-1(136)0
UPN: 10516000

DESIGNED BY	REVIEWED BY	CHECKED BY
A. SCOTT 08/2025	D. MCLAIN 08/2025	C. DEVERNIERO 08/2025

10516000RDTTLZ01.DWG

MONTANA
Department of Transportation

ROAD PLANS

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BRIDGE PLANS	
BRIDGE PLANS	B1-B7

NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

COMP. AGGREGATE WEIGHT	= 3700 LBS. PER CUBIC YARD
COMP. WEIGHT OF PL. MIX BIT. SURF.	= 3855 LBS. PER CUBIC YARD
ASPHALT BINDER - GRADE S - 1/2" AGG.	= 5.8% OF PL.MIX BIT.SURF.
HYDRATED LIME	= 1.4% OF PL.MIX BIT.SURF.
BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
EMULSIFIED ASPHALT - TACK (ALL OTHER SURFACES)	= 0.05 GAL. PER SQ.YARD (UNDILUTED)
EMULSIFIED ASPHALT - TACK (CONCRETE SURFACES)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

STRIPING NOTES

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

GUARDRAIL

- SEE MDT DETAILED DRAWING NO. 606-13 FOR MASH W-BEAM TERMINAL SECTION INSTALLATION.
- SEE MDT DETAILED DRAWING NO. 606-20 FOR MGS TO METAL GUARDRAIL TRANSITION INSTALLATION.
- SEE MDT DETAILED DRAWING NO. 606-23A & 606-23B FOR MASH THRIE-BEAM BRIDGE APPROACH SECTION INSTALLATION.
- SEE MDT DETAILED DRAWING NO. 606-24A & 606-24B FOR BRIDGE APPROACH SECTION TYPE 3 INSTALLATION.

PROJECT DESIGN DATA

MDT STR. NO.	FEATURE INTERSECTED	ROUTE	RP	PRESENT 2025 A.D.T. *	DESIGN 2045 A.D.T. *	D.H.V. *	TRUCKS	V. (MPH)	18 KIP. ESAL'S	GROWTH RATE
01001	SEP S VALLEY ROAD (NB)	I-15	0.5	1,820	2,405	340	36.9%	80	787	1.4%
01002	SEP S VALLEY ROAD (SB)	I-15	0.5	1,820	2,405	340	36.9%	80	787	1.4%
01009	SEP UP RAILROAD (NB)	I-15	12.9	1,820	2,405	340	36.9%	80	787	1.4%
01011	SEP RED ROCK ROAD (NB)	I-15	15.2	1,915	2,530	360	35.0%	80	786	1.4%
01013	SEP GOSMAN LANE (NB)	I-15	19.8	1,915	2,530	360	35.0%	80	786	1.4%
01017	SEP MAIN STREET (NB)	I-15	23.8	1,915	2,530	360	35.0%	80	786	1.4%
01018	SEP MAIN STREET (SB)	I-15	23.8	1,915	2,530	360	35.0%	80	786	1.4%
01045	SEP BARRETS-REBICH LANE (NB)	I-15	56.1	2,300	3,040	430	29.2%	80	745	1.4%

* TOTAL ROADWAY AADT DIVIDED BY TWO

RUMBLE STRIPS

REFERENCE POST FROM	REFERENCE POST TO	miles RUMBLE STRIPS CONTIN-UOUS	miles RUMBLE STRIPS INTER-MITTENT	gals EMULSIFIED ASPHALT FOG SEAL #	REMARKS
0.5 NB		0.02	0.02	4	SHOULDER, LT & RT. INSTALL 50' BEFORE AND AFTER STRUCTURE.
0.5 SB		0.02	0.02	4	SHOULDER, LT & RT. INSTALL 50' BEFORE AND AFTER STRUCTURE.
12.9 NB		0.02	0.02	4	SHOULDER, LT & RT. INSTALL 50' BEFORE AND AFTER STRUCTURE.
15.2 NB		0.02	0.02	4	SHOULDER, LT & RT. INSTALL 50' BEFORE AND AFTER STRUCTURE.
19.8 NB		0.02	0.02	4	SHOULDER, LT & RT. INSTALL 50' BEFORE AND AFTER STRUCTURE.
23.8 NB		0.02	0.02	4	SHOULDER, LT & RT. INSTALL 50' BEFORE AND AFTER STRUCTURE.
23.8 SB		0.02	0.02	4	SHOULDER, LT & RT. INSTALL 50' BEFORE AND AFTER STRUCTURE.
56.1 NB		0.02	0.02	4	SHOULDER, LT & RT. INSTALL 50' BEFORE AND AFTER STRUCTURE.
SUBTOTAL		0.2	0.2	36	
TOTAL		0.4		~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS

GUARDRAIL

REFERENCE POST FROM	REFERENCE POST TO	linear feet REMOVE GUARDRAIL LEFT	linear feet REMOVE GUARDRAIL RIGHT	linear feet MGS GUARDRAIL LEFT	linear feet MGS GUARDRAIL RIGHT	each MASH W-BEAM TERMINAL SECTION LEFT	each MASH W-BEAM TERMINAL SECTION RIGHT	each BRIDGE APPROACH SECTION TYPE 3 LEFT	each BRIDGE APPROACH SECTION TYPE 3 RIGHT	each MASH THRIE-BEAM BRIDGE APPROACH SECTION LEFT	each MASH THRIE-BEAM BRIDGE APPROACH SECTION RIGHT	each GUARDRAIL END SECTION WIDENING LEFT	each GUARDRAIL END SECTION WIDENING RIGHT	REMARKS
NORTHBOUND														
19.730	19.796 BE			262.5		1				1		1		
19.781	19.796 BE	162.5												
19.784	19.796 BE		65.6											
19.784	19.796 BE				# 28.1						1			
19.817 BE	19.847			75.0		1				1		1		
19.817 BE	19.829		65.6											
19.817 BE	19.829				# 28.1						1			
23.740	23.810 BE			287.5		1				1		1		
23.787	23.810 BE	292.0												
23.792	23.804 BE		65.6											
23.792	23.804 BE				# 28.1						1			
23.831 BE	23.847		100.6											
23.831 BE	23.847						1				1		1	
23.836 BE	23.852					1				1		1		
SOUTHBOUND														
19.777	19.796 BE				# 28.1		1		1				1	
19.817 BE	19.832		164.0											
19.817 BE	19.886				# 292.1		1		1				1	
23.798	23.814 BE						1				1		1	
23.801	23.817 BE	100.0												
23.801	23.817 BE					1				1		1		
23.840 BE	23.863		292.5											
23.840 BE	23.913				300.0		1				1		1	
23.843 BE	23.857	65.6												
23.843 BE	23.857			# 28.1						1				
SUBTOTAL		620.1	754.0	653.1	704.6	5	5	0	2	6	6	5	5	
TOTAL		1,374		1,358		10		2		12		10		

INCLUDES MGS TO METAL TRANSITIONS

SHEET NO. 02

NOTES

PROJECT NAME I-15 BRIDGE DECKS - S OF DILLON

COUNTY BEAVERHEAD

PROJECT ID NHPB 15-1(136)0

UPN 10516000

DESIGNED BY	A. SCOTT	08/2025
REVIEWED BY	D. MCLAIN	08/2025
CHECKED BY	C. DEVERNIERO	08/2025

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MONTANA Department of Transportation

ROAD PLANS

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RP 19.817 TO RP 19.829 NORTHBOUND
- REMOVE GUARDRAIL
- NEW MASH THRIE-BEAM BRIDGE APPROACH SECTION
- NEW MGS TO METAL TRANSITION

RP 19.829

RP 19.817

RP 19.784 TO RP 19.796 NORTHBOUND
- REMOVE GUARDRAIL
- NEW MGS TO METAL TRANSITION
- NEW MASH THRIE-BEAM BRIDGE APPROACH SECTION

RP 19.796

RP 19.784

MDT SID 01013

I-15 NORTHBOUND

RP 19.817 TO RP 19.847 NORTHBOUND
- NEW MASH THRIE-BEAM BRIDGE APPROACH SECTION
- NEW MGS GUARDRAIL
- NEW MASH W-BEAM TERMINAL SECTION

RP 19.886

RP 19.847

RP 19.817

RP 19.817

RP 19.796

RP 19.796

RP 19.777

RP 19.730 TO RP 19.796 NORTHBOUND
- REMOVE GUARDRAIL
- NEW MASH W-BEAM TERMINAL SECTION
- NEW MGS GUARDRAIL
- NEW MASH THRIE-BEAM BRIDGE APPROACH SECTION

RP 19.730

MDT SID 01014

NO BRIDGE DECK WORK
PERFORMED ON THIS STRUCTURE

I-15 SOUTHBOUND

RP 19.817 TO RP 19.886 SOUTHBOUND
- REMOVE GUARDRAIL
- NEW BRIDGE APPROACH SECTION TYPE 3
- NEW MGS TO METAL TRANSITION
- NEW MGS GUARDRAIL
- NEW MGS W-BEAM TERMINAL SECTION

RP 19.777 TO RP 19.796 SOUTHBOUND
- NEW MASH W-BEAM TERMINAL SECTION
- NEW MGS TO METAL TRANSITON
- NEW BRIDGE APPROACH SECTION TYPE 3

T. 13 S
R. 09 W
SEC. S04 & S09

RP 23.831 TO RP 23.847 NORTHBOUND
- REMOVE GUARDRAIL
- NEW MASH THRIE-BEAM BRIDGE APPROACH SECTION
- NEW MASH W-BEAM TERMINAL SECTION

RP 23.847

RP 23.831

RP 23.792 TO RP 23.804 NORTHBOUND
- REMOVE GUARDRAIL
- NEW MGS TO METAL TRANSITON
- NEW MASH THRIE-BEAM BRIDGE APPROACH SECTION

RP 23.804

RP 23.792

MDT SID 01017

I-15 NORTHBOUND

RP 23.840 TO RP 23.913 SOUTHBOUND
- REMOVE GUARDRAIL
- NEW MASH THRIE-BEAM BRIDGE APPROACH SECTION
- NEW MGS GUARDRAIL
- NEW MASH W-BEAM TERMINAL SECTION

RP 23.836 TO RP 23.852 NORTHBOUND
- NEW MASH THRIE-BEAM BRIDGE APPROACH SECTION
- NEW MASH W-BEAM TERMINAL SECTION

RP 23.852

RP 23.836

RP 23.810

RP 23.740 TO RP 23.810 NORTHBOUND
- REMOVE GUARDRAIL
- NEW MASH W-BEAM TERMINAL SECTION
- NEW MGS GUARDRAIL
- NEW MASH THRIE-BEAM BRIDGE APPROACH SECTION

RP 23.740

RP 23.913

RP 23.840

RP 23.814

RP 23.798

RP 23.798 TO RP 23.814 SOUTHBOUND
- NEW MASH W-BEAM TERMINAL SECTION
- NEW MASH THRIE-BEAM BRIDGE APPROACH SECTION

MDT SID 01018

I-15 SOUTHBOUND

RP 23.857

RP 23.843

RP 23.817

RP 23.801

RP 23.843 TO RP 23.857 SOUTHBOUND
- REMOVE GUARDRAIL
- NEW MASH THRIE-BEAM BRIDGE APPROACH SECTION
- NEW MGS TO METAL TRANSITION

RP 23.801 TO RP 23.817 SOUTHBOUND
- REMOVE GUARDRAIL
- NEW MASH W-BEAM TERMINAL SECTION
- NEW MASH THRIE-BEAM BRIDGE APPROACH SECTION

T. 13 S
R. 09 W
SEC. S09 & S04

NOTE:
1. SEE ROADWAY SUMMARY SHEET FOR REFERENCE POST LIMITS AND FURTHER DETAILS

SHEET NO.
03

GUARDRAIL DETAIL

PROJECT NAME I-15 BRIDGE DECKS - S OF DILLON
COUNTY BEAVERHEAD
PROJECT ID NHPB 15-1(136)0
UPN 10516000

DESIGNED BY	08/2025	REVIEWED BY	08/2025	CHECKED BY	08/2025
A. SCOTT		D. MCLAIN		C. DEVERNIERO	

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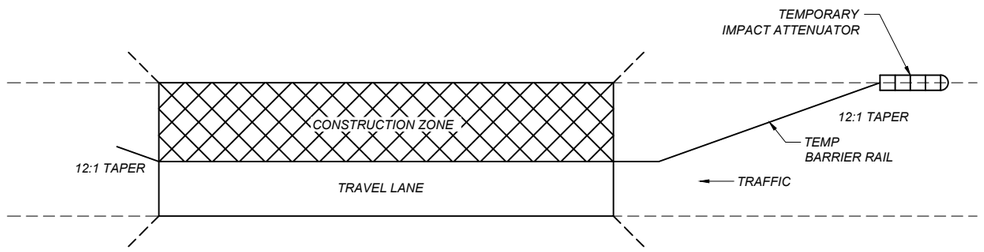
MONTANA
Department of Transportation

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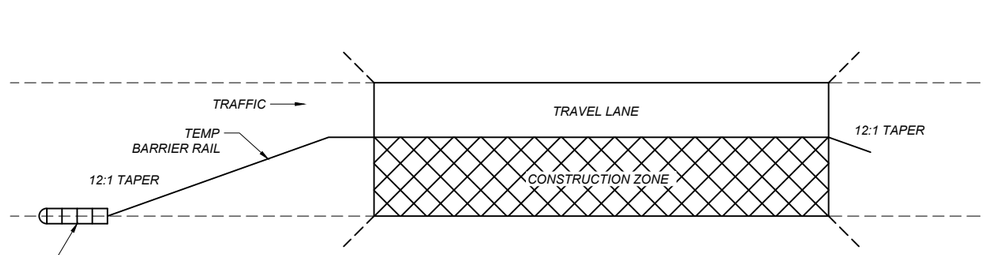
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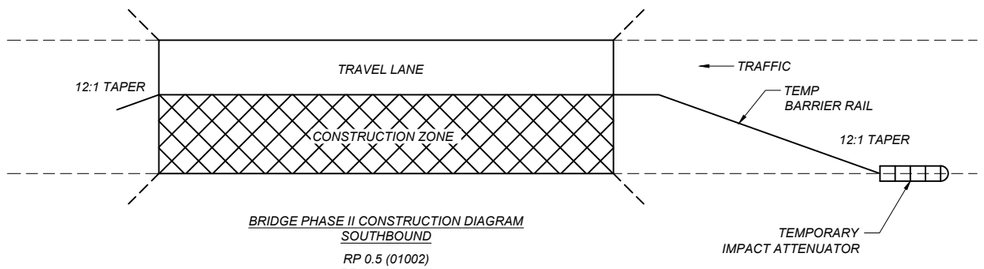
BRIDGE PHASE I CONSTRUCTION DIAGRAM
SOUTHBOUND

RP 0.5 (01002)
RP 23.8 (01018)



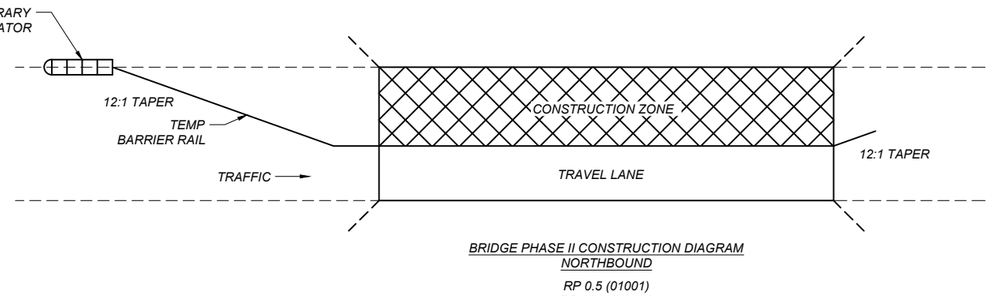
BRIDGE PHASE I CONSTRUCTION DIAGRAM
NORTHBOUND

RP 0.5 (01001)
RP 12.9 (01009)
RP 15.2 (01011)
RP 19.8 (01013)
RP 23.8 (01017)
RP 56.1 (01045)



BRIDGE PHASE II CONSTRUCTION DIAGRAM
SOUTHBOUND

RP 0.5 (01002)
RP 23.8 (01018)



BRIDGE PHASE II CONSTRUCTION DIAGRAM
NORTHBOUND

RP 0.5 (01001)
RP 12.9 (01009)
RP 15.2 (01011)
RP 19.8 (01013)
RP 23.8 (01017)
RP 56.1 (01045)

* SEE SPECIAL PROVISIONS
** SEE SUMMARY FRAME FOR BARRIER LENGTHS
*** SEE BRIDGE PLANS FOR LAYOUT

SHEET NO. 04

TEMPORARY BARRIER RAIL DETAIL

PROJECT NAME: I-15 BRIDGE DECKS - S OF DILLON
COUNTY: BEAVERHEAD
PROJECT ID: NHPB 15-1(136)0
UPN: 10516000

DESIGNED BY	A. SCOTT	08/2025
REVIEWED BY	D. MCLAIN	08/2025
CHECKED BY	C. DEVERNIERO	08/2025

MONTANA
Department of Transportation

ROAD PLANS

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ASSOCIATED PROJECT AGREEMENT NUMBERS	
P.E.	NHPB 15-1(136)0

MONTANA DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS AND QUANTITIES

FEDERAL AID PROJECT NHPB 15-1(136)0

I-15 BRIDGE DECKS-S OF DILLON

BEAVERHEAD COUNTY

Signed by: Josh Schroeder
3F04552718384D4...
DATE 3/3/2026

MONTANA
JOSHUA R. SCHROEDER
No. 104733 PE
LICENSED PROFESSIONAL ENGINEER

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

BRIDGE IDENTIFICATION	
MDT STR ID	NBI NUMBER
01001	I00015000+05201
01002	I00015000+05202
01009	I00015012+07671
01011	I00015015+01701
01013	I00015019+08071
01017	I00015023+08291
01018	I00015023+08292
01045	I00015056+00201

*Estimated overlay concrete volume quantities shown will not be measured for payment. These quantities will be used to determine overrun quantities for payment if applicable.

LIST OF DRAWINGS

SHEET NO.	DWG. NO.	TITLE
B1	21069	LIST OF DRAWINGS, ESTIMATED BRIDGE PLAN QUANTITIES, AND BRIDGE WORK SUMMARY
B2	21070	STRUCTURAL NOTES, SPECIFICATIONS, AND JOINT DETAILS
B3	21071	BRIDGE REPAIR DETAILS AND OVERLAY DEPTHS
B4	21072	PHASE CONSTRUCTION DIAGRAMS AND APPROACH REVISIONS
B5	21073	BRIDGE RAIL REVISIONS (SHEET 1 OF 2) (01013, 01017, 01018)
B6	21074	BRIDGE RAIL REVISIONS (SHEET 2 OF 2) (01013, 01017, 01018)
B7	21075	BILL OF REINFORCING STEEL

ESTIMATED BRIDGE PLAN QUANTITIES

MDT STRUCTURE NUMBER	FEATURE CROSSED	ROUTE	REFERENCE POST	ROADWAY	GENERAL LAYOUT DRAWING NO.	REMOVE GUARD ANGLE (LNFT)	CLASS A BRIDGE DECK REPAIR (SQYD)	CLASS B BRIDGE DECK REPAIR (SQYD)	CONCRETE CLASS - OVERLAY (SQYD)	CONCRETE CLASS - OVERLAY* (CUYD)	TRANSVERSE DECK GROOVING (SQYD)	BRIDGE DECK CRACK SEAL (SQYD)	BRIDGE DECK MILLING (SQYD)	EXPANSION JOINT - STRIP SEAL (LNFT)	REVISE CONCRETE BARRIER RAIL-BR (LNFT)	TEMPORARY BARRIER RAIL - ANCHORED (LNFT)	RESET TEMP BARRIER RAIL - ANCHORED (LNFT)	TEMPORARY IMPACT ATTENUATOR (EACH)	RESET TEMP IMPACT ATTENUATOR (EACH)	EXCAVATION DIGOUTS (CUYD)	REMOVE BRIDGE APPROACH SLAB** (EACH)	SEPARATION GEOTEXTILE FABRIC HIGH SURVIVABILITY (SQYD)	CRUSHED AGGREGATE COURSE (CUYD)	COLD MILLING (SQYD)	COVER-TYPE 2 (SQYD)	COMMERCIAL MIX PG 58V-34 (TONS)	EMULSIFIED ASPHALT CHFRS-2P (TONS)	TACK (GALLONS)
01001	S Valley Road	I-15	0.500	NB	4031	88.0			583.0	40.5	553.4	583.0	583.0	90.0		475	475	1	1	103		210	35	307	512	172	0.9	26
01002	S Valley Road	I-15	0.500	SB	12010	82.7			546.5	38.0	517.2	546.5	546.5			451	451	1	1	98		201	33	294	489	164	0.9	24
01009	Railroad	I-15	12.900	NB	12320	82.7			2213.6	153.7	2103.6	2213.6	2213.6	130		794	794	1	1	98		201	33	294	489	164	0.9	24
01011	Red Rock Road	I-15	15.200	NB	4085	82.7			546.5	38.0	517.2	546.5	546.5	86.7		432	432	1	1	107		219	36	320	534	180	1.0	27
01013	SEP Gosman Lane	I-15	19.800	NB	8143	88.0			533.7	37.1	506.3	533.7	533.7		218.3	445	445	1	1	105		215	35	314	523	176	0.9	26
01017	Main Street	I-15	23.800	NB	9199	117.4			642.5	44.6	608.2	642.5	642.5		278.7	451	451	1	1	33	2	201	33	294	489	164	0.9	24
01018	Main Street	I-15	23.800	SB	9199	117.4			642.5	44.6	608.2	642.5	642.5		278.7	451	451	1	1	33	2	201	33	294	489	164	0.9	24
01045	Barretts-Rebich Lane	I-15	56.100	NB	7125	88.0			576.3	42.2	607.0	607.0	607.0			460	460	1	1	105		215	35	314	523	176	0.9	26
TOTAL						746.9	5.0	5.0	5990.4	438.7	6021.1	6315.3	6315.3	306.7	775.7	3959	3959	8	8	682	4	1663	273	2431	4048	1360	7.2	202

BRIDGE WORK SUMMARY

MDT STRUCTURE NUMBER	FEATURE CROSSED	ROUTE	ROADWAY	REMOVE GUARD ANGLE	CLASS A BRIDGE DECK REPAIR	CLASS B BRIDGE DECK REPAIR	BRIDGE OVERLAY	TRANSVERSE DECK GROOVING	BRIDGE DECK CRACK SEAL	BRIDGE DECK MILLING	REVISE CONCRETE BARRIER-BR	EXPANSION JOINT REPLACEMENT	SURFACING AND COLD MILLING	REMOVE APPROACH SLABS
01001	S Valley Road	I-15	NB	✓	✓	✓	✓	✓	✓	✓		✓	✓	
01002	S Valley Road	I-15	SB	✓	✓	✓	✓	✓	✓	✓			✓	
01009	Railroad	I-15	NB	✓	✓	✓	✓	✓	✓	✓		✓	✓	
01011	Red Rock Road	I-15	NB	✓	✓	✓	✓	✓	✓	✓		✓	✓	
01013	SEP Gosman Lane	I-15	NB	✓	✓	✓	✓	✓	✓	✓	✓		✓	
01017	Main Street	I-15	NB	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
01018	Main Street	I-15	SB	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
01045	Barretts-Rebich Lane	I-15	NB	✓	✓	✓	✓	✓	✓	✓			✓	

SHEET NO. B1

LIST OF DRAWINGS, ESTIMATED BRIDGE PLAN QUANTITIES, AND BRIDGE WORK SUMMARY

PROJECT NAME: I-15 BRIDGE DECKS-S OF DILLON

MDT STRUCTURE ID: 01001, 01002, 01009, 01011, 01013, 01017, 01018, 01045

FEDERAL AID PROJECT NHPB 15-1(136)0

COUNTY: BEAVERHEAD

REVISED	REVISED	REVISED	REVISED	CHECKED	M.L.I.	07-09-25	10516000.dwg \ BRQSHV01
				DRAWN	K.L.D.	04-30-25	
				DESIGNED	J.R.S	04-30-25	

10/31/2025 12:19:48 PM

MONTANA DEPARTMENT OF TRANSPORTATION BRIDGE BUREAU

UPN NUMBER 10516000

DRAWING NO. 21069

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

The design was prepared in accordance with AASHTO LRFD Bridge Design Specifications, Ninth Edition - 2020, with standard HL-93 loading.

See Montana Department of Transportation and the Montana Transportation Commission Standard Specification for Road and Bridge Construction, 2025 Editions, and amendments, and Special Provisions govern unless otherwise noted.

TRAFFIC CONTROL PLAN AND SEQUENCE OF OPERATIONS:
See Construction Phasing detail for each bridge and Special Provision.

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

Top of Slab	2 ½"
Concrete Barriers and Curbs	1 ½"

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

EXISTING REINFORCING STEEL (TO REMAIN):
Replace existing reinforcing steel damaged during construction that is called out o remain in place at no additional cost to the State. Clean exposed reinforcing steel prior to placing new concrete. Include exposed existing reinforcing steel in other items of work.

REINFORCING STEEL SUFFIX:
The suffix E denotes epoxy coated reinforcing steel.

BRIDGE DECK REPAIR:
Quantities shown for Class A and B Bridge Deck Repair may vary from actual field quantities. Specific Class A Deck Repair and Class B Deck Repair areas have not been measured but quantities are provided for contingency after hydromilling.

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

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

Use Concrete Class Overlay on bridge decks requiring thick overlays (See Special Provisions).

See details for overlay treatment at guard angles.

See details for overlay treatment at deck drains.

BRIDGE DECK CRACK SEAL:
Allow the overlay concrete to cure for 3 weeks before applying the crack sealing material.

Flood seal the entire bridge deck surface of structures receiving a thick concrete overlay.

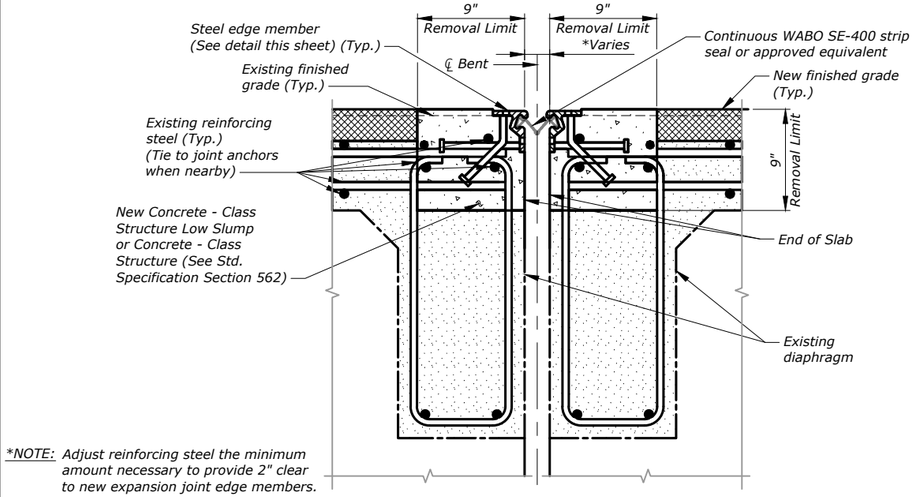
CONTROL SURVEY:
Establish a control elevation at each bridge before removing or milling the deck. New bridge deck profile to follow surveyed existing bridge deck profile and include noted grade shown in Table of Removal and Overlay Depths on Sheet No. B3.

Perform a control survey to establish existing slab profile and finished grade by surveying the centerline of roadway and face of curb locations at 10'-0" intervals prior to milling the deck. Submit screed and survey data to the Project Manager. Costs for this work are incidental to other items.

BRIDGE DECK MILLING:
Use Hydrodemolition on deck to reach final milling depth shown on plans.

COLD MILLING:
This project is expected to produce 4,044 square yards of millings.These millings become the property of the contractor, and any costs incurred in disposal are included in the unit bid price for cold milling.

TEMPORARY BARRIER RAIL-ANCHORED:
See Temporary Barrier Rail Special Provision.

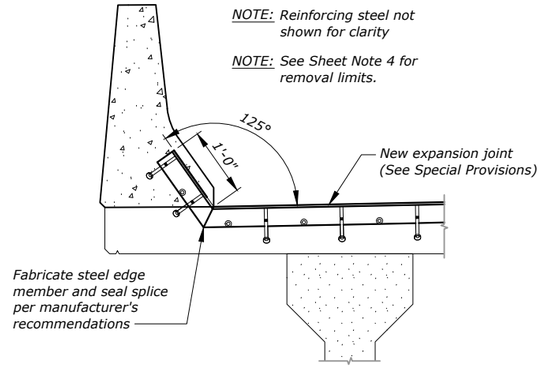


*NOTE: Adjust reinforcing steel the minimum amount necessary to provide 2" clear to new expansion joint edge members.

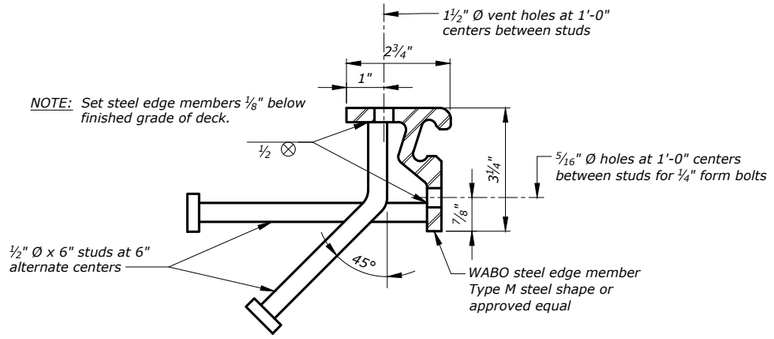
NEW EXPANSION JOINT DETAIL THROUGH DECK
Scale ~ 1" = 1'-0"

SHEET NOTES

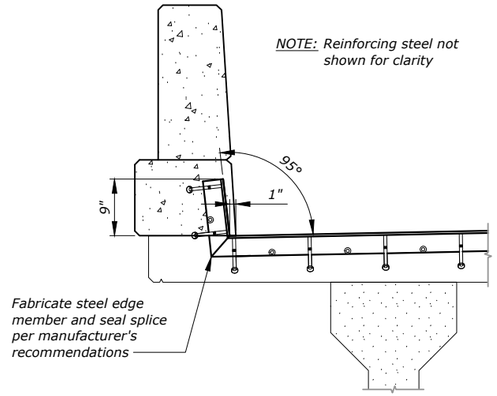
1. Support the expansion joint assembly accurately and firmly while placing concrete. Use a support method strong enough to withstand contact with concrete vibrators.
2. For all requirements of expansion joint, see Special Provisions.
3. Form end of slab to conform to Table of Expansion Joint Gaps.
4. Remove existing barrier 9" on either side of the existing expansion joint. Salvage existing reinforcing steel. Use Concrete - Class Overlay for new expansion joint and barrier work. Include the cost in the unit price bid for Expansion Joint Strip Seal.



NEW EXPANSION JOINT DETAIL THROUGH JERSEY BARRIER
Scale ~ ½" = 1'-0"
(01009)



STEEL EDGE MEMBER AND ANCHORAGE SYSTEM
Scale ~ 3" = 1'-0"



NEW EXPANSION JOINT DETAIL THROUGH REVISED BARRIER RAIL
Scale ~ ½" = 1'-0"
(01001 & 01011)

NOTE: The movements shown are not factored. They are the actual anticipated movements for the temperature shown.

***TABLE OF EXPANSION GAPS**

MDT STRUCTURE NUMBER	TEMPERATURE (°F)						ADJUSTMENT FOR ⅛" MOVEMENT (°F)	Total Movement (in)
	-40	0	38	60	90	115		
01001	1¾	1⅝	1⅝	1½	1⅜	1⅜	42	⅜
01009	1¾	1⅝	1⅝	1½	1⅜	1⅜	42	⅜
01011	2¼	2	1¾	1½	1¼	1	16	1¼

SHEET NO. B2

STRUCTURAL NOTES, SPECIFICATIONS, AND JOINT DETAILS

SCALE: NO SCALE

PROJECT NAME
I-15 BRIDGE DECKS-S OF DILLON

MDT STRUCTURE ID
01001, 01002, 01009, 01011, 01013, 01017, 01018, 01045

FEDERAL AID PROJECT
NHPB 15-1(136)0

COUNTY
BEAVERHEAD

REVISED	REVISED	REVISED	REVISED	CHECKED	K.L.I.	07-09-25		
				DRAWN	K.L.D.	04-30-25		
				DESIGNED	J.R.S.	04-30-25		
				10516000.dwg | BRSUMV01				

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BRIDGE BUREAU

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UPN NUMBER
10516000

DRAWING NO.
21070

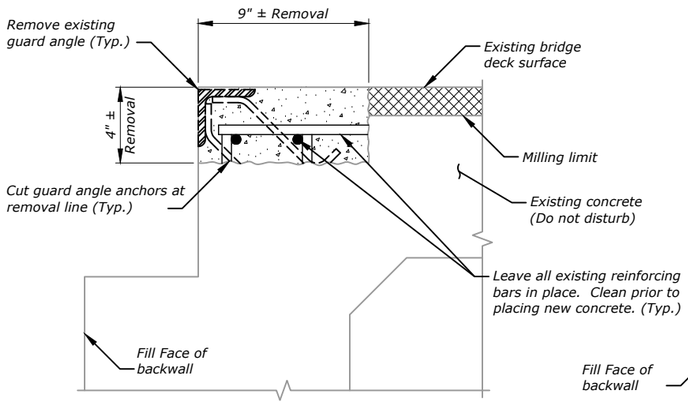
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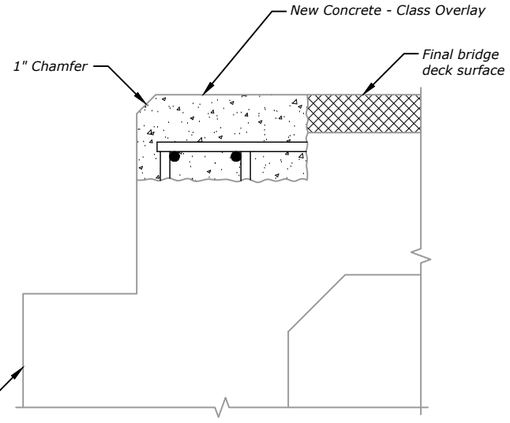
TABLE OF REMOVAL AND OVERLAY DEPTHS

MDT STRUCTURE ID	FEATURE CROSSED	ROUTE	REFERENCE POST	ROADWAY	MINIMUM REMOVAL DEPTH (IN)	ANTICIPATED REMOVAL DEPTH (IN)	ANTICIPATED MODIFIED CONCRETE OVERLAY THICKNESS (IN)	TOTAL GRADE RAISE (IN)
01001	S Valley Road	I-15	0.500	NB	1 1/2	2	2 1/2	1/2
01002	S Valley Road	I-15	0.500	SB	1 1/2	2	2 1/2	1/2
01009	Railroad	I-15	12.900	NB	1 1/2	2	2 1/2	1/2
01011	Red Rock Road	I-15	15.200	NB	1 1/2	2	2 1/2	1/2
01013	SEP Gosman Lane	I-15	19.800	NB	1 1/2	2	2 1/2	1/2
01017	Main Street	I-15	23.800	NB	1 1/2	2	2 1/2	1/2
01018	Main Street	I-15	23.800	SB	1 1/2	2	2 1/2	1/2
01045	Barretts-Rebich Lane	I-15	56.100	NB	1 1/2	2	2 1/2	1/2

NOTE: Anticipated removal depth is approximate. Mill to top mat of reinforcing steel or the minimum amount shown, whichever is less. Adjust the Modified Concrete Overlay Thickness accordingly to match the Total Grade Raise shown.



EXISTING GUARD ANGLE REMOVAL

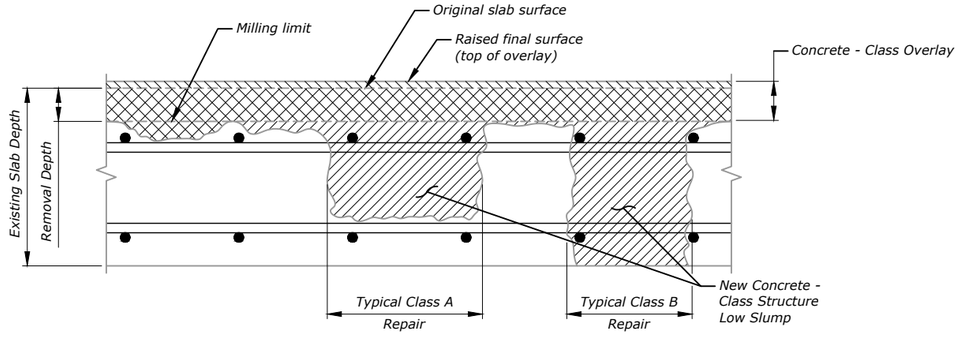


NEW BRIDGE END

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 1½" clear cover.

GUARD ANGLE REMOVAL DETAIL

No Scale

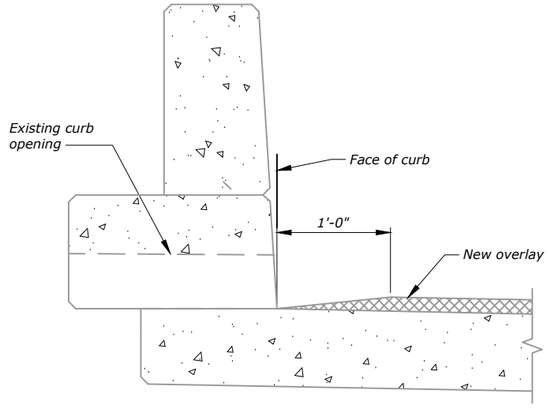


NOTE: Reinforcing steel may be located above the milling limit.

NOTE: For removal depths, see Table of Removal and Overlay Depths on this Sheet.

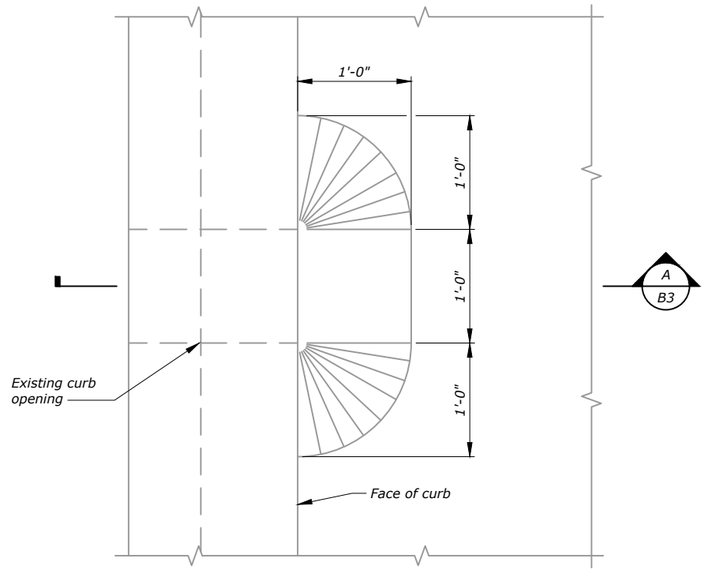
BRIDGE DECK REPAIR AND THICK OVERLAY DEFINITION

No Scale



A / B3 **SECTION A**

Scale ~ 3/4" = 1'-0"



CURB OPENING PLAN

OVERLAY TREATMENT AT CURB OPENING AND DECK DRAINS

Scale ~ 3/4" = 1'-0"
(01001)

SHEET NO. B3

BRIDGE REPAIR DETAILS AND OVERLAY DEPTHS

SCALE: As Noted

PROJECT NAME
I-15 BRIDGE DECKS-S OF DILLON

MDT STRUCTURE ID
01001, 01002, 01009, 01011, 01013, 01017, 01018, 01045

FEDERAL AID PROJECT
NHPB 15-1(136)0

COUNTY
BEAVERHEAD

REVISED	REVISED	REVISED	REVISED	CHECKED	M.L.I.	07-09-25		
				DRAWN	K.L.D.	04-30-25		
				DESIGNED	J.R.S.	04-30-25		
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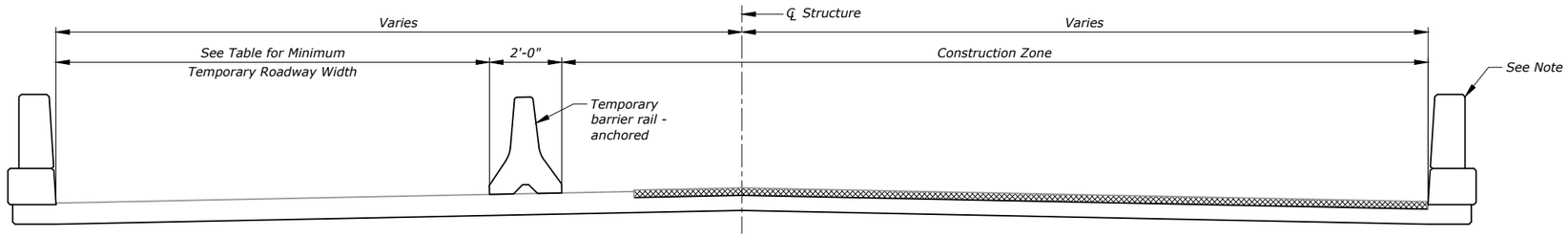
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TABLE OF ROADWAY WIDTHS

MDT STRUCTURE NUMBER	FEATURE CROSSED	ROUTE	ROADWAY	CLEAR ROADWAY WIDTH	TEMPORARY ROADWAY WIDTH
01001	S Valley Road	I-15	NB	44'-0"	18'-0"
01002	S Valley Road	I-15	SB	41'-4"	17'-8"
01009	Railroad	I-15	NB	41'-4"	17'-8"
01011	Red Rock Road	I-15	NB	41'-4"	17'-8"
01013	SEP Gosman Lane	I-15	NB	44'-0"	18'-0"
01017	Main Street	I-15	NB	41'-6"	17'-9"
01018	Main Street	I-15	SB	41'-6"	17'-9"
01045	Barretts-Rebich Lane	I-15	NB	44'-0"	18'-0"

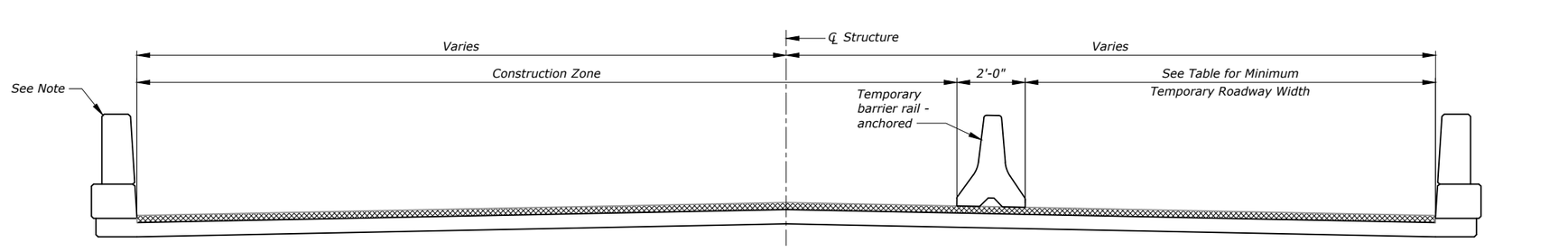
NOTE

Revise Concrete Barrier - BR Structures 01013, 01017, and 01018 only.



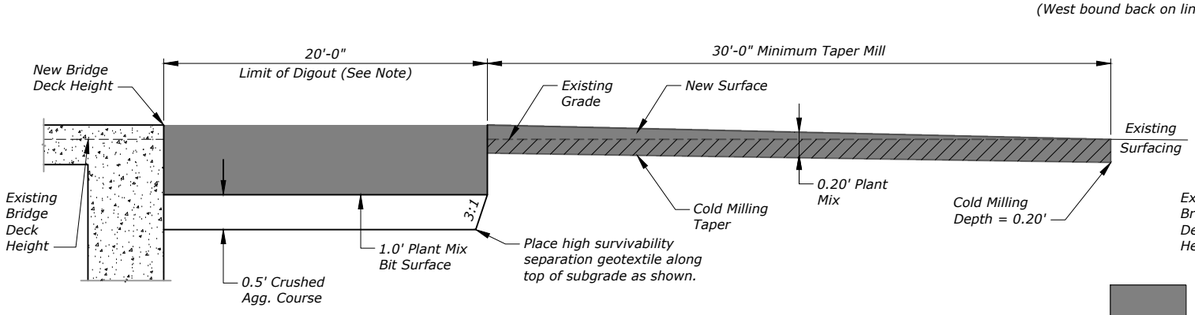
PHASE 1

Scale ~ 1/4" = 1'-0"
(East bound ahead on line)
(West bound back on line)



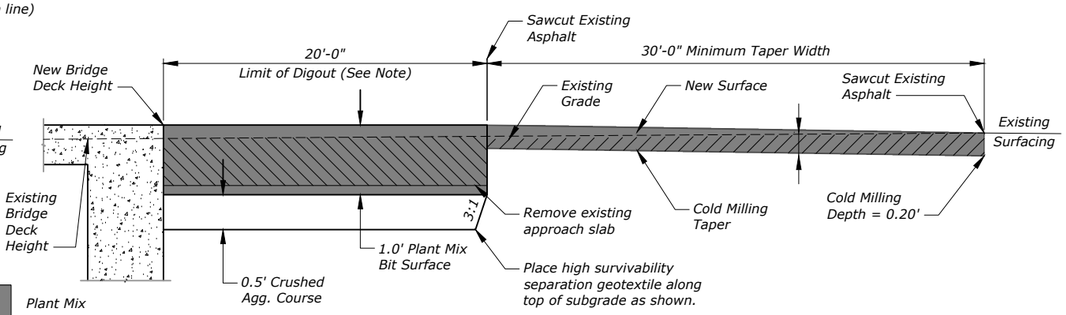
PHASE 2

Scale ~ 1/4" = 1'-0"
(East bound ahead on line)
(West bound back on line)



PROPOSED BRIDGE APPROACH - APPROACH ASPHALT DIGOUT

NOT TO SCALE
(01001, 01002, 01009, 01011, 01013, & 01045)



Plant Mix

Cold Milling

PROPOSED BRIDGE APPROACH - CONCRETE APPROACH SLAB DIGOUT

NOT TO SCALE
(01017 & 01018)

NOTE:
Excavation dig out of approximately 33 cu yds beneath each of the approach slab removals.

SHEET NO.
B4

TRAFFIC CONTROL PHASING AND APPROACH REVISIONS

SCALE: As Noted

PROJECT NAME
I-15 BRIDGE DECKS-S OF DILLON

MDT STRUCTURE ID
01001, 01002, 01009, 01011, 01013, 01017, 01018, 01045

FEDERAL AID PROJECT
NHPB 15-1(136)0

COUNTY
BEAVERHEAD

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				M.L.I.	K.L.D.	J.R.S.	
				07-09-25	04-30-25	04-30-25	

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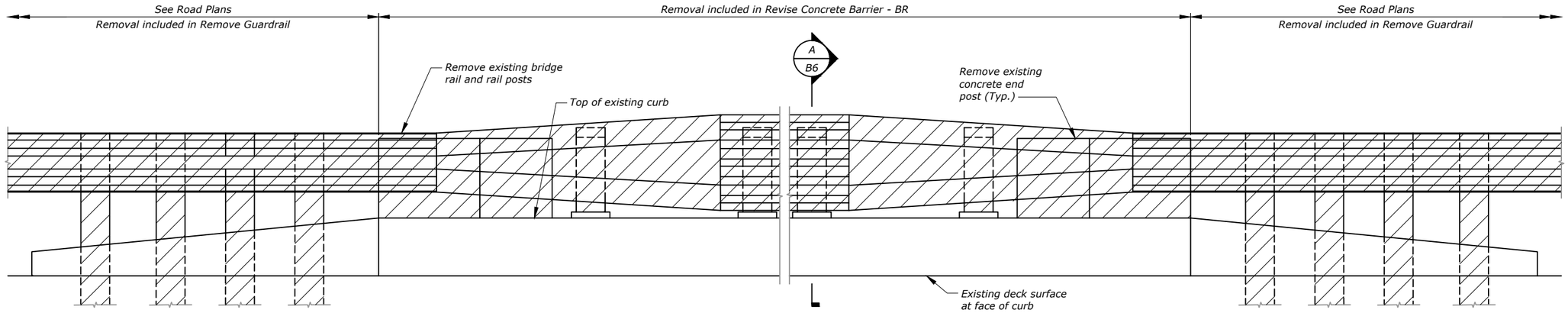
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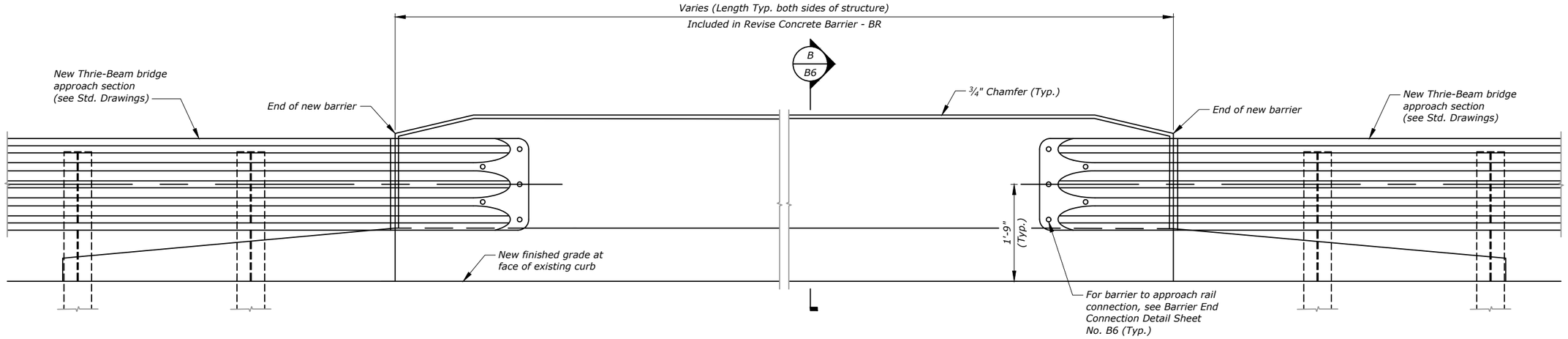
Include all costs associated with removing the existing bridge rail in the unit bid price for Revise Concrete Barrier - BR.

Include all costs associated with installing new concrete barrier rail in the unit bid price for Revise Concrete Barrier - BR.

See Sheet No. B7 for Bill of Reinforcing Steel.



EXISTING RAIL PARTIAL ELEVATION
Scale ~ 1/2" = 1'-0"



NEW CONCRETE BARRIER PARTIAL ELEVATION
Scale ~ 1/2" = 1'-0"

SHEET NO.
B5

BRIDGE RAIL REVISIONS (SHEET 1 OF 2) (01013, 01017, 01018)

SCALE: As Noted

PROJECT NAME
I-15 BRIDGE DECKS-S OF DILLON

MDT STRUCTURE ID
01013, 01017, 01018

FEDERAL AID PROJECT
NHPB 15-1(136)0

COUNTY
BEAVERHEAD

REVISED				M.L.I.	07-09-25	
REVISED				K.L.D.	05-15-25	
REVISED				J.R.S.	05-13-25	
REVISED				DESIGNED	DRAWN	CHECKED

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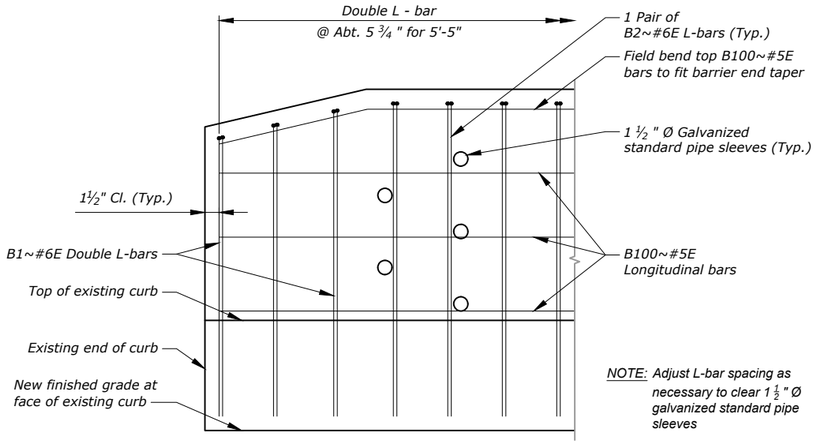
MONTANA DEPARTMENT OF TRANSPORTATION
BRIDGE BUREAU

UPN NUMBER
10516000

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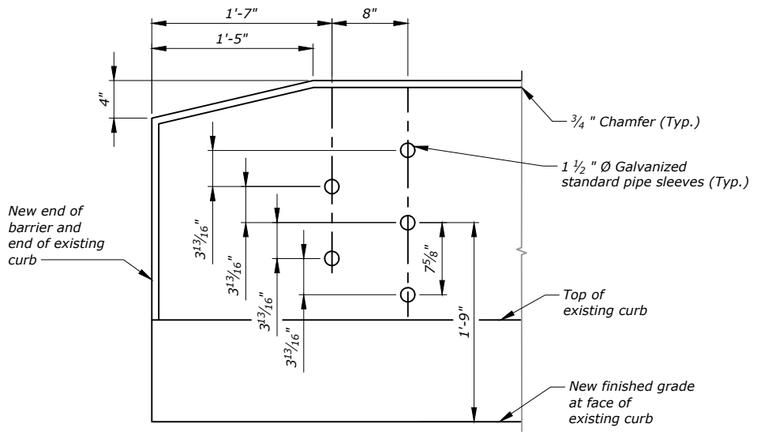
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TYPICAL BARRIER END DETAIL

Scale ~ 3/4" = 1'-0"



BARRIER END CONNECTION DETAIL

Scale ~ 3/4" = 1'-0"

NOTES

Paint end of cut reinforcing steel and anchor bolts with two-component self priming epoxy per the Standard Specifications or with a cold galvanizing compound following the paint manufacturers recommendations.

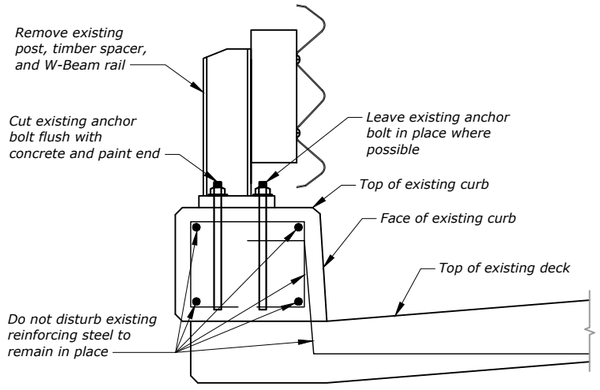
Include all costs associated with removing the existing bridge rail, existing concrete end post, and existing curb taper in the unit bid price for Revise Concrete Barrier - BR.

Include all costs associated with installing new concrete barrier rail in the unit bid price for Revise Concrete Barrier - BR.

See Sheet No. B7 for Bill of Reinforcing Steel.

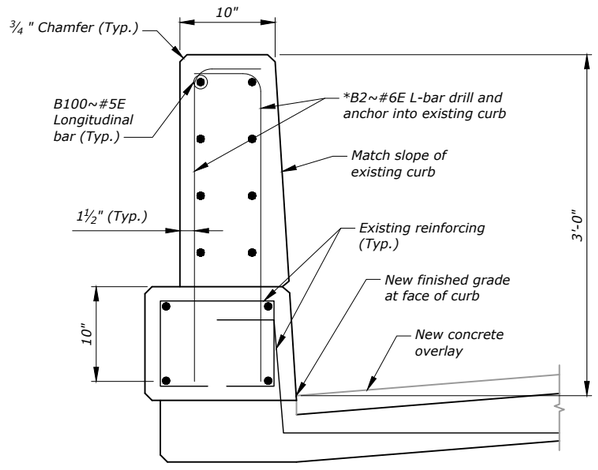
Lap #5E longitudinal bars a minimum of 3'-0", 3'-3" has been provided for construction tolerances.

See Sheet No. B5 and Detail Dwgs. 606-23 for MGS Thrie Beam Bridge Approach Section information.



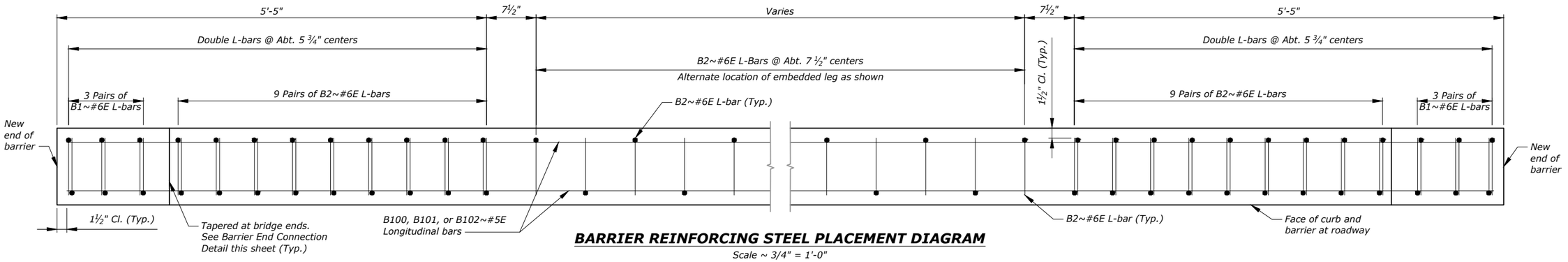
A B5 **SECTION A**

Scale ~ 3/4" = 1'-0"



B B5 **SECTION B**

Scale ~ 3/4" = 1'-0"



BARRIER REINFORCING STEEL PLACEMENT DIAGRAM

Scale ~ 3/4" = 1'-0"

SHEET NO. B6

BRIDGE RAIL REVISIONS (SHEET 2 OF 2) (01013, 01017, 01018)

SCALE: As Noted

PROJECT NAME
I-15 BRIDGE DECKS-S OF DILLON

MDT STRUCTURE ID
01013, 01017, 01018

FEDERAL AID PROJECT
NHPB 15-1(136)0

COUNTY
BEAVERHEAD

REVISED								
REVISED								
REVISED								
REVISED								
CHECKED	M.L.I.	07-09-25						
DRAWN	K.L.D.	05-15-25						
DESIGNED	J.R.S.	05-13-25						

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MONTANA DEPARTMENT OF TRANSPORTATION MDT BRIDGE BUREAU

UPN NUMBER
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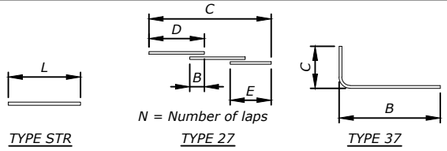
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BILL OF REINFORCING STEEL - 01013

(ALL DIMENSIONS ARE OUT TO OUT)

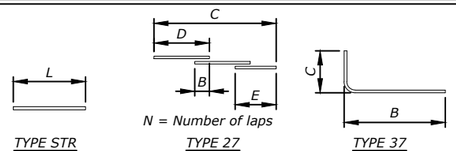


TYPE STR TYPE 27 TYPE 37

Mark	Size	No.	Type	Length	A	B	C	D	E	G	N
B100	#5E	16	27	110-11		3-3	107-8	60-0	50-11		1
B1	#6E	24	37	3-0		2-5	7"				
B2	#6E	336	37	3-3 1/2		2-8 1/2	7"				

BILL OF REINFORCING STEEL - 01017

(ALL DIMENSIONS ARE OUT TO OUT)

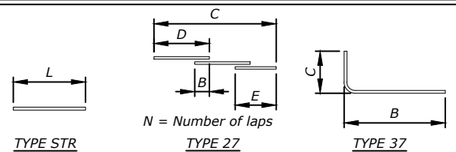


TYPE STR TYPE 27 TYPE 37

Mark	Size	No.	Type	Length	A	B	C	D	E	G	N
B101	#5E	16	27	140-11		3-3	137-8	60-0	24-2		2
B1	#6E	24	37	3-0		2-5	7"				
B2	#6E	434	37	3-3 1/2		2-8 1/2	7"				

BILL OF REINFORCING STEEL - 01018

(ALL DIMENSIONS ARE OUT TO OUT)



TYPE STR TYPE 27 TYPE 37

Mark	Size	No.	Type	Length	A	B	C	D	E	G	N
B102	#5E	16	27	140-11		3-3	137-8	60-0	24-2		2
B1	#6E	24	37	3-0		2-5	7"				
B2	#6E	434	37	3-3 1/2		2-8 1/2	7"				

SHEET NO. B7

BILL OF REINFORCING STEEL

SCALE: As Noted

PROJECT NAME
I-15 BRIDGE DECKS-S OF DILLON

MDT STRUCTURE ID
01013, 01017, 01018

FEDERAL AID PROJECT
NHPB 15-1(136)0

COUNTY
BEAVERHEAD

REVISED								
REVISED								
REVISED								
REVISED								
CHECKED	M.L.I.	07-09-25						
DRAWN	K.L.D.	05-15-25						
DESIGNED	J.R.S.	05-13-25						

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BRIDGE BUREAU

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UPN NUMBER
10516000

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