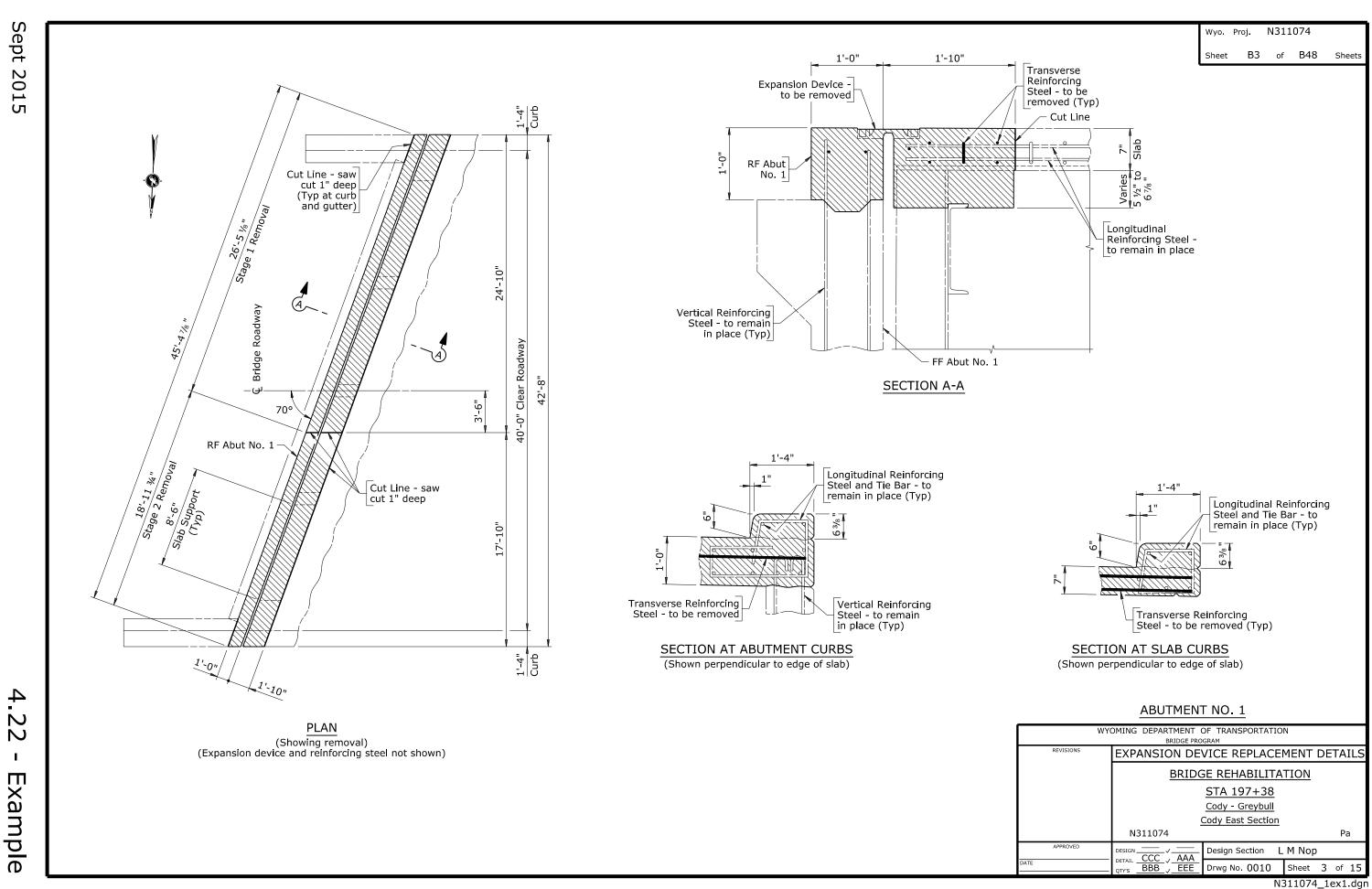
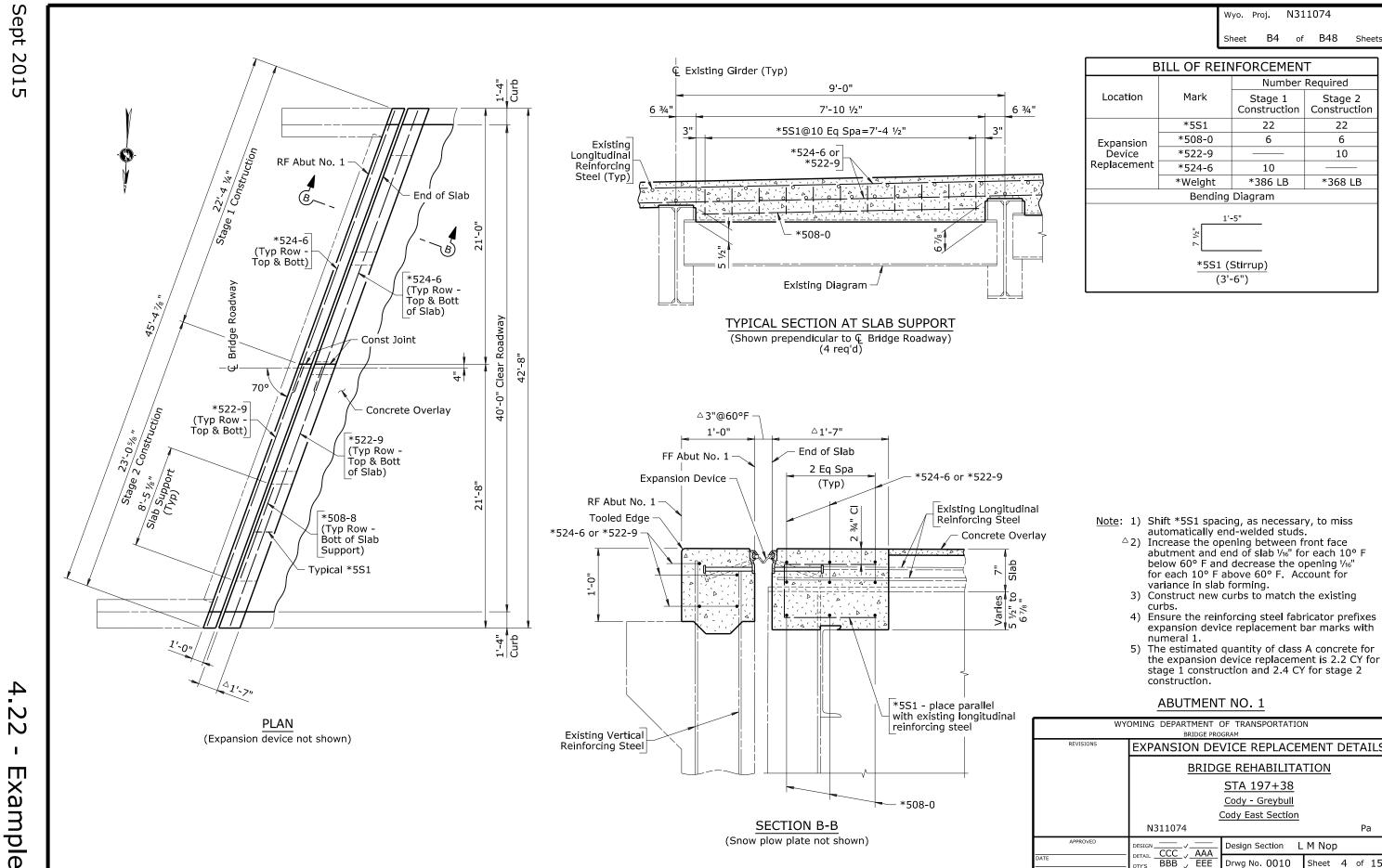
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N311074_1ex2.dgn

Design Section L M Nop

Drwg No. 0010 Sheet 4 of 15

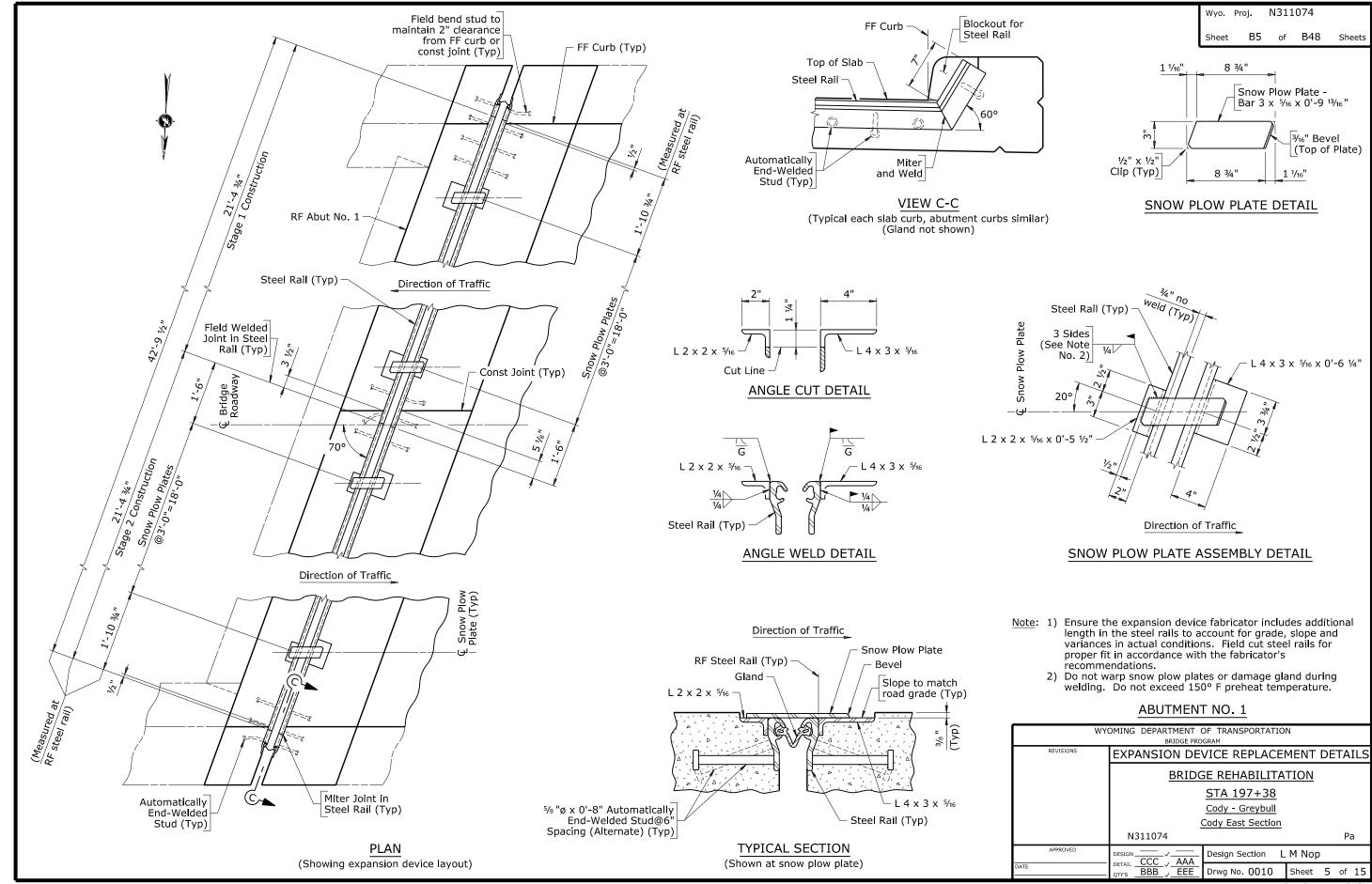
DESIGN V AAA

DETAIL CCC V AAA

QTY'S BBB V EEE

22

Example



N311074_1ex3.dgn

Remove existing terminal and sleeves

- RF Abut

Post Spacing

Approach Slab Curb

to expansion splice

Existing Post - to

remain in place (Typ)

Existing Wingwall Curb

ABUTMENT NO. 1

(SE corner shown, NE corner similar)

© End Post

2'-0"

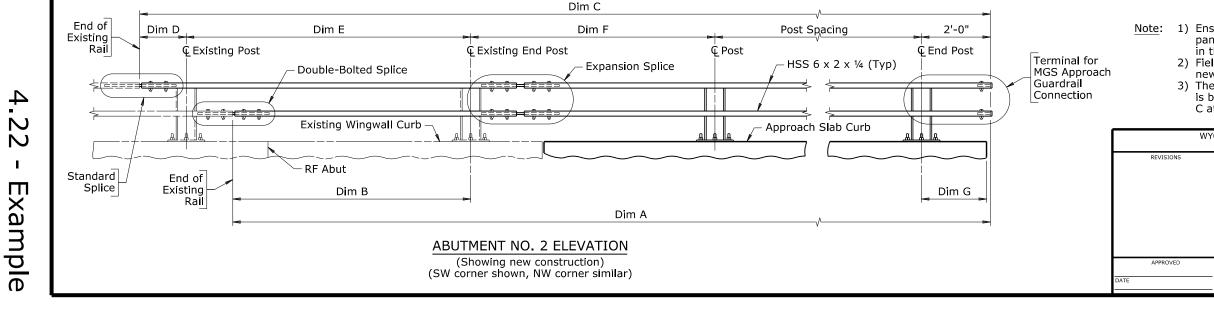
Dim G

Terminal for

Guardrail

Connection

MGS Approach



Remove existing

to first splice

TYPICAL ELEVATION

(Showing removal)

Ç Post

Dim C

Dim F

Existing Wingwall Curb

ABUTMENT NO. 1 ELEVATION
(Showing new construction)
(SE corner shown, NE corner similar)

Dim A

HSS 6 x 2 x 1/4

RF Abut

terminal and sleeves

Existing Wingwall Curb

ABUTMENT NO. 2

(SW corner shown, NW corner similar)

© Existing End Post

Existing Post - to

Dim D

Dim B

RF Abut

End of Existing Rail

End of

Rail

Existing

Expansion

Splice

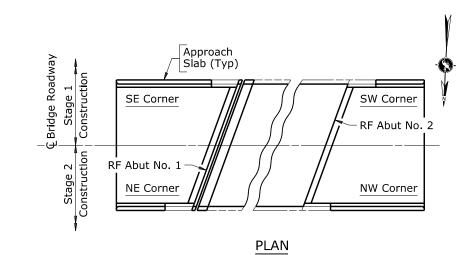
remain in place (Typ)

TABLE OF DIMENSIONS Post Location Dim A Dim B Dim D Dim E Dim F Dim G Posts Spacing Req'd 3 Spa SE Corner 40'-11" 7'-8" 40'-11 1/2" 7'-8 1/2" 7'-6" 1'-10 5/8" @7'-11' 4 =23'-9" 1 Spa NE Corner 25'-6 34" 7'-7 34" 25'-6 34" 7'-7 34" 8'-0" 2'-0 5/8" 2 @7'-11 1 Spa 2 9'-3 1/2" SW Corner 26'-0 34" 7'-10 34" 29'-1 14" 1'-7 ¾" 8'-3" 1'-10 7/8" @7'-11' 3 Spa @7'-11" **NW Corner** 40'-8" 7'-5" 43'-8 1/2" 1'-7" 7'-6" 1'-11 3/8" 4 8'-10 1/2" =23'-9"

Wyo. Proj. N311074

B6 of B48

Sheets



Note: 1) Ensure the expansion splice is located in the railing panel which passes over the bridge joint as indicated in the elevations.

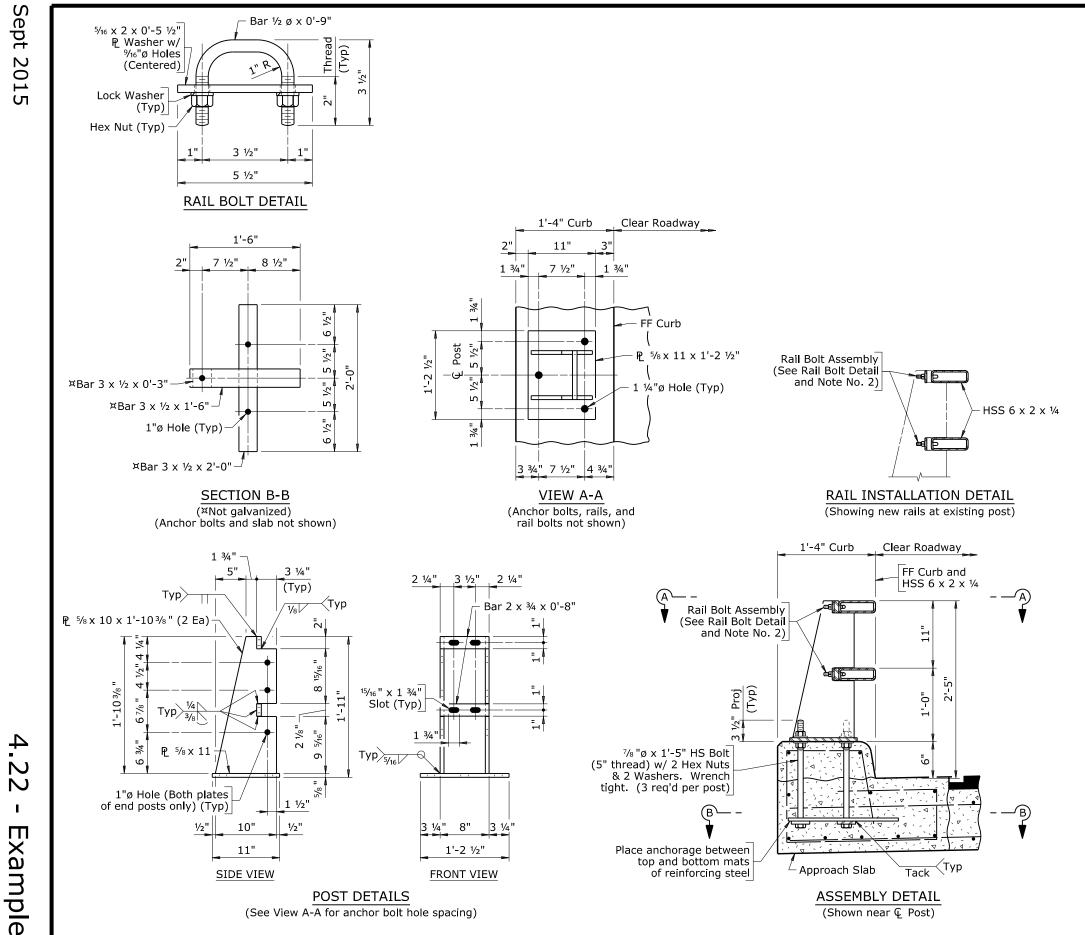
2) Field drill existing rails as required for installation of new splices. Grind rough edges of drilled areas.

 The estimated quantity for bridge railing modification is based on the average of dimension A and dimension C at each location.

WY	WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM						
REVISIONS	BRIDGE RAILII	BRIDGE RAILING MODIFICATION DETAILS					
	BRIDO	BRIDGE REHABILITATION					
	STA 197+38						
		Cody - Greybull					
	9	Cody East Section					
	N311074 Pa						
APPROVED	DESIGN	Design Section L	M Nop				
DATE	DETAIL CCC AAA	Drwg No. 0010	Sheet 6	of 15			

N311074_1rm1.dgn

N



Note: 1) Anchor bolts may be tack welded to anchorage (Shop or field).

2) At post locations, drill two 1 1/16" ø holes in each rail to receive rail bolts (Shop or field). See Post Details for hole spacing.

Wyo. Proj. N311074

B7 of B48 Sheets

- 3) Paint surfaces of the railing components that have been cut, drilled, or otherwise damaged with two coats of zinc-rich paint conforming to ASTM A 780.
- 4) After installing rails, paint exposed bolt threads with two coats of zinc-rich paint conforming to ASTM A 780.

WY	OMING DEPARTMENT (BRIDGE PRO		N		
REVISIONS	BRIDGE RAILII	BRIDGE RAILING MODIFICATION DETAILS			
	BRIDGE REHABILITION				
	STA 197+38				
	Cody - Greybull				
	<u> </u>	Cody East Section			
	N311074 Pa				
APPROVED	DESIGN V Design Section L M Nop				
TE	OTY'S BBB SEEE	Drwg No. 0010	Sheet	7 of 15	

N311074_1rm2.dgn

4

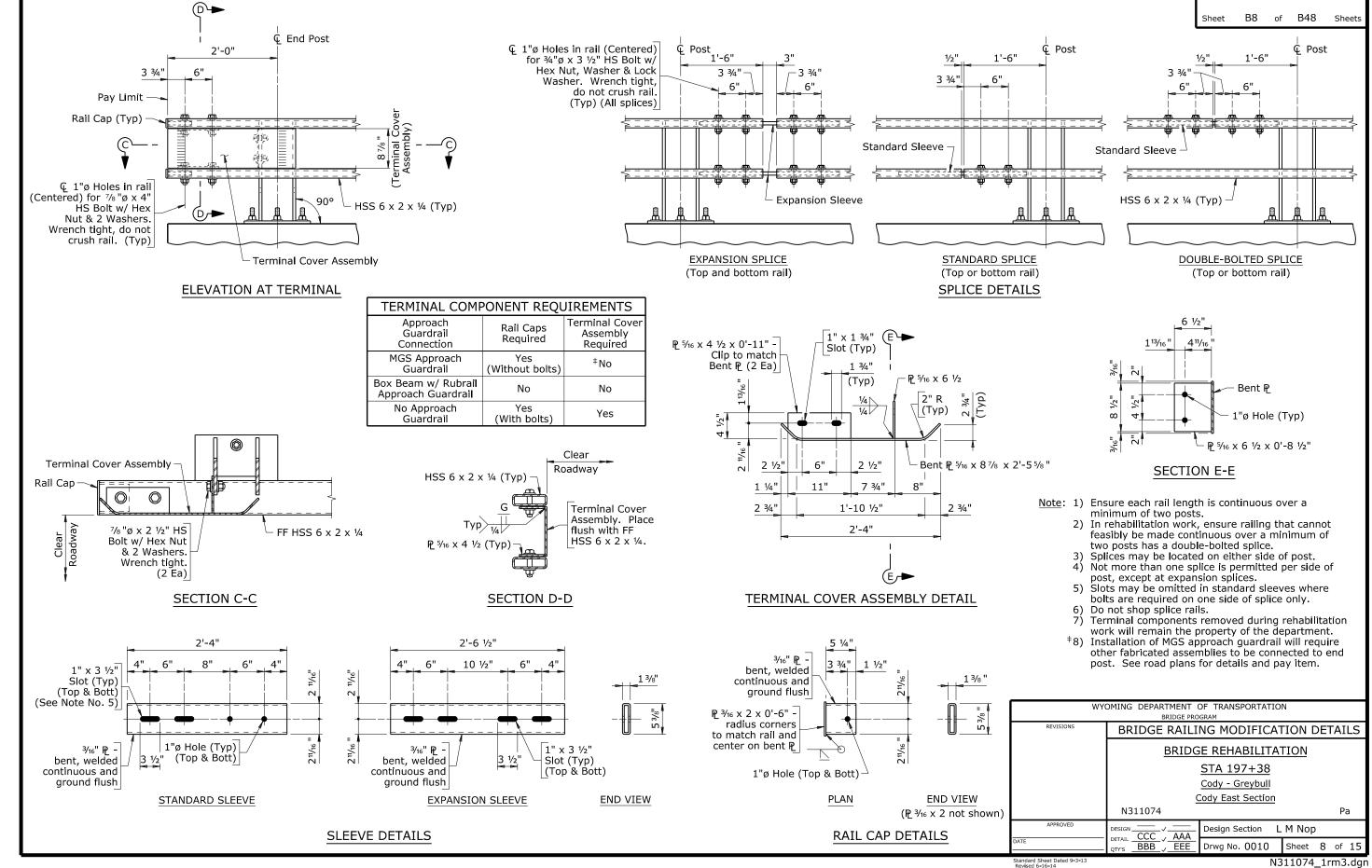
N

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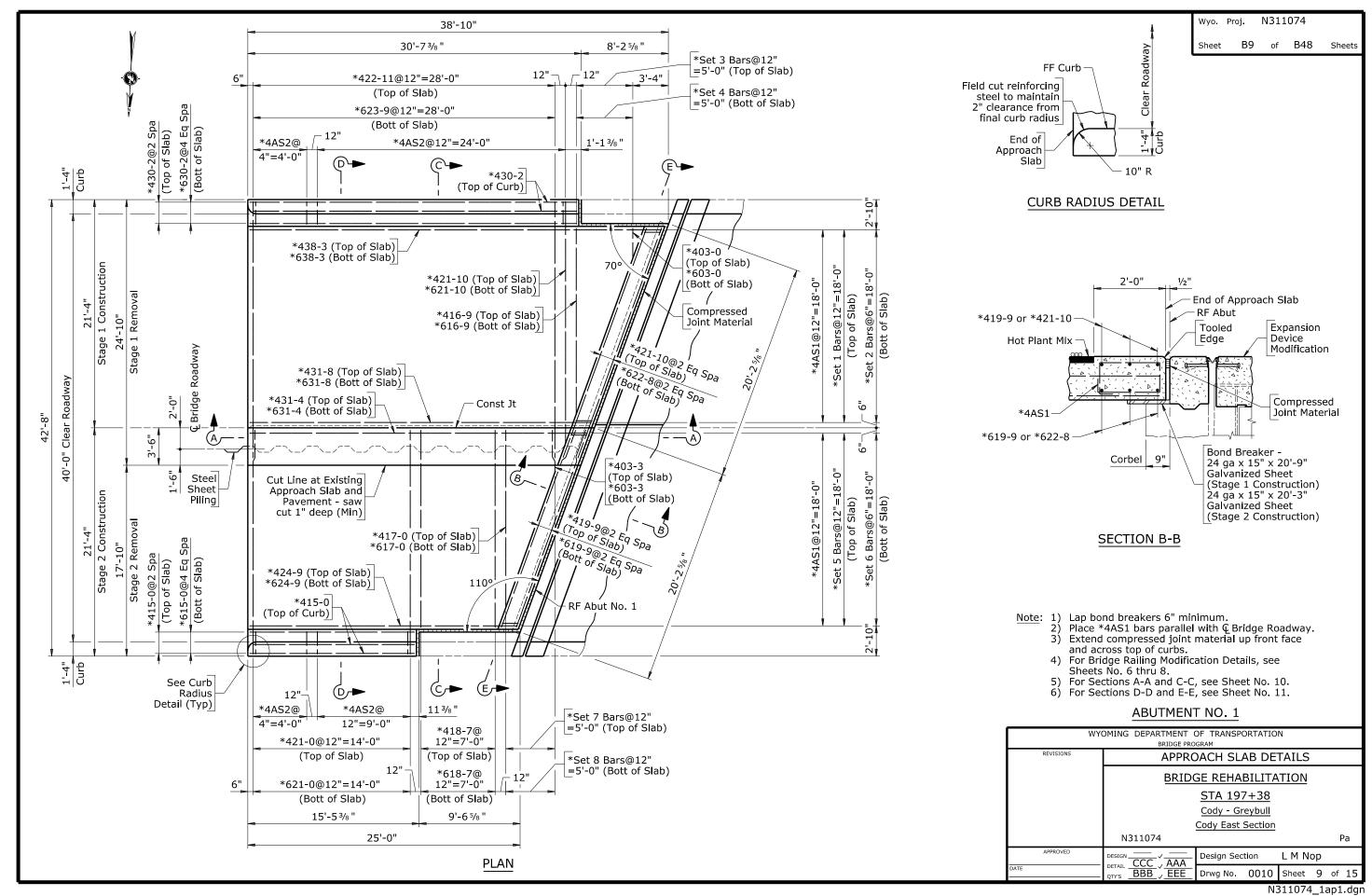
xample

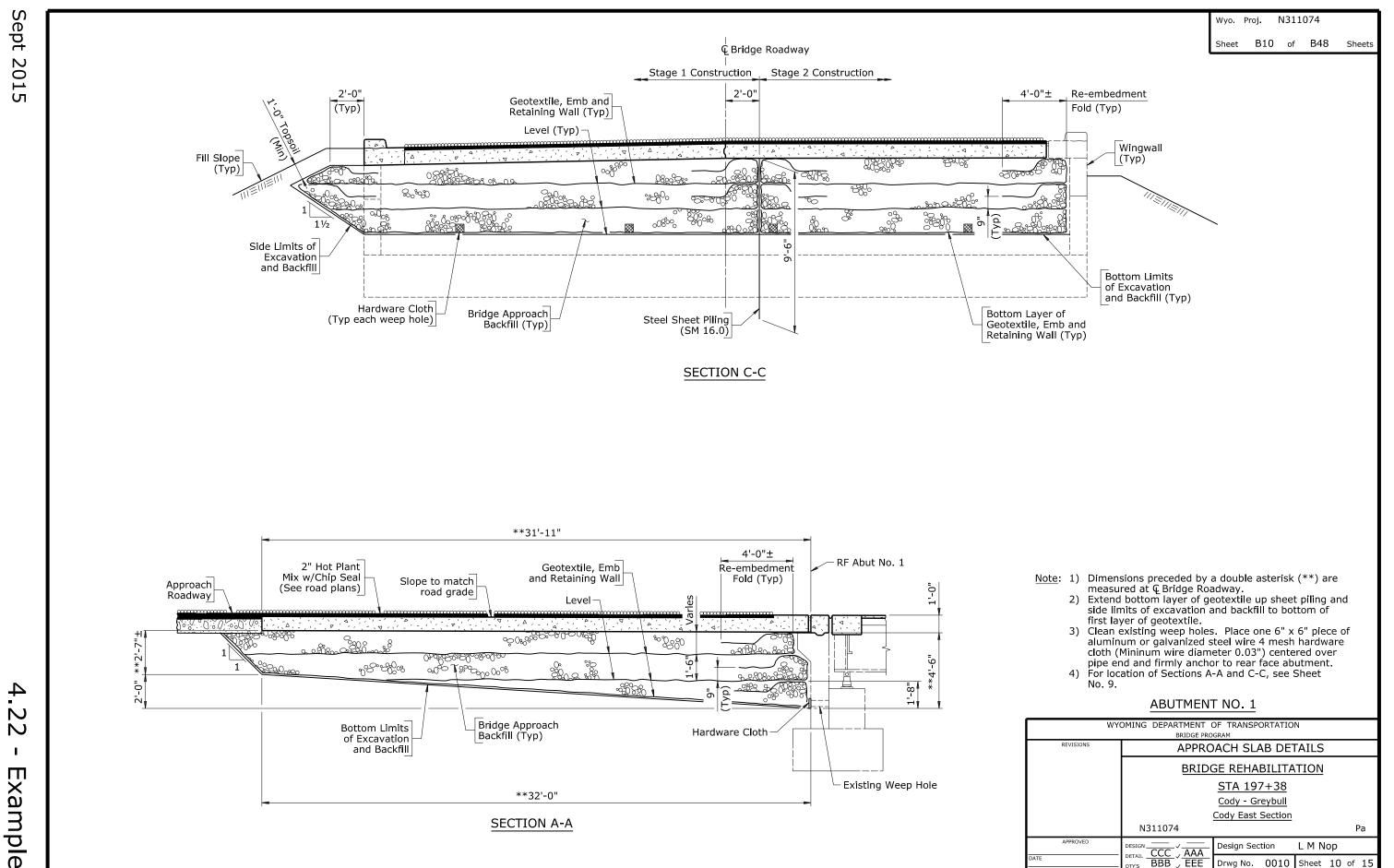
N311074

Wyo Proj.



N





N311074_1ap2.dgn

Drwg No. 0010 Sheet 10 of 15

DESIGN V AAA

DETAIL CCC AAA

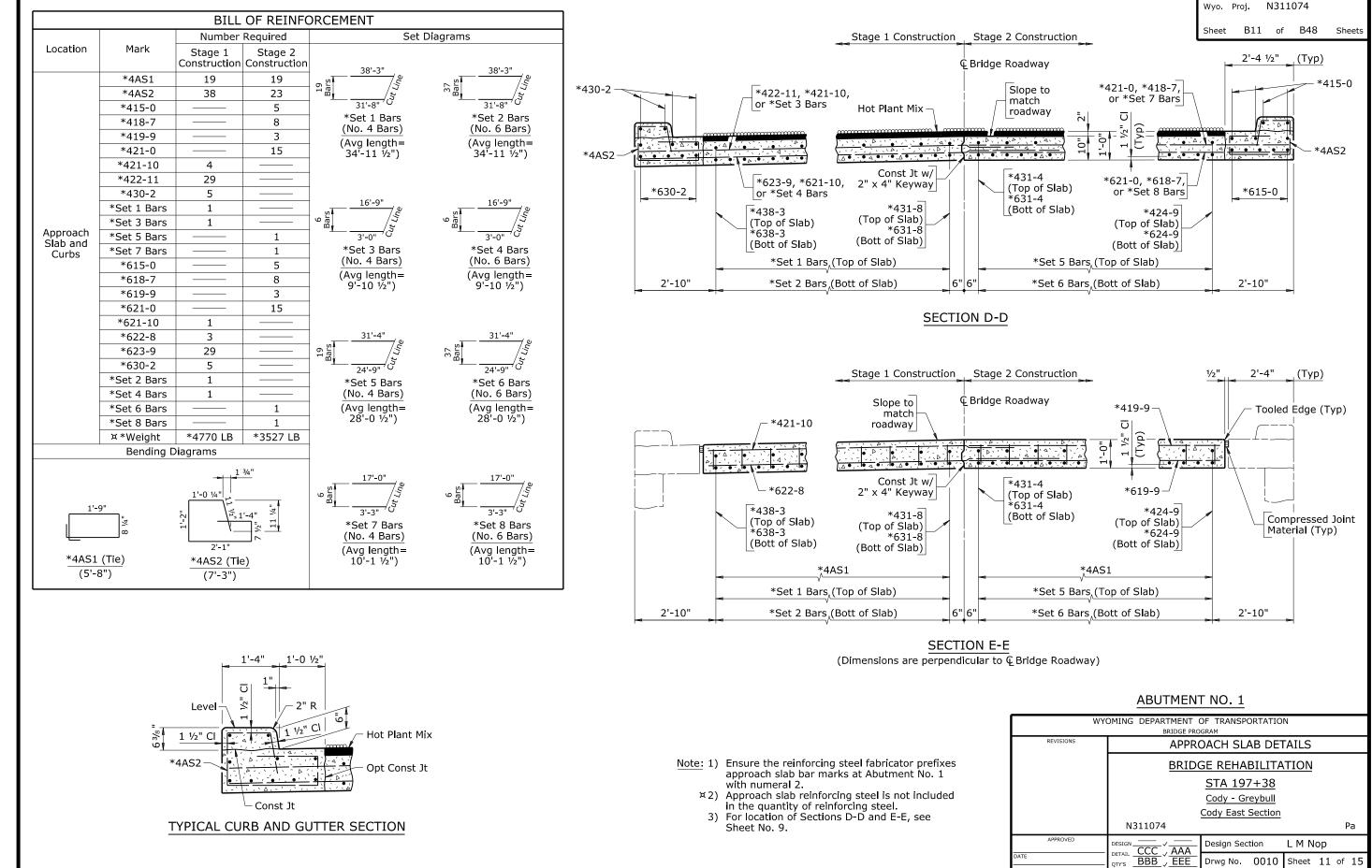
QTY'S BBB EEE

0010 Sheet 11 of 15

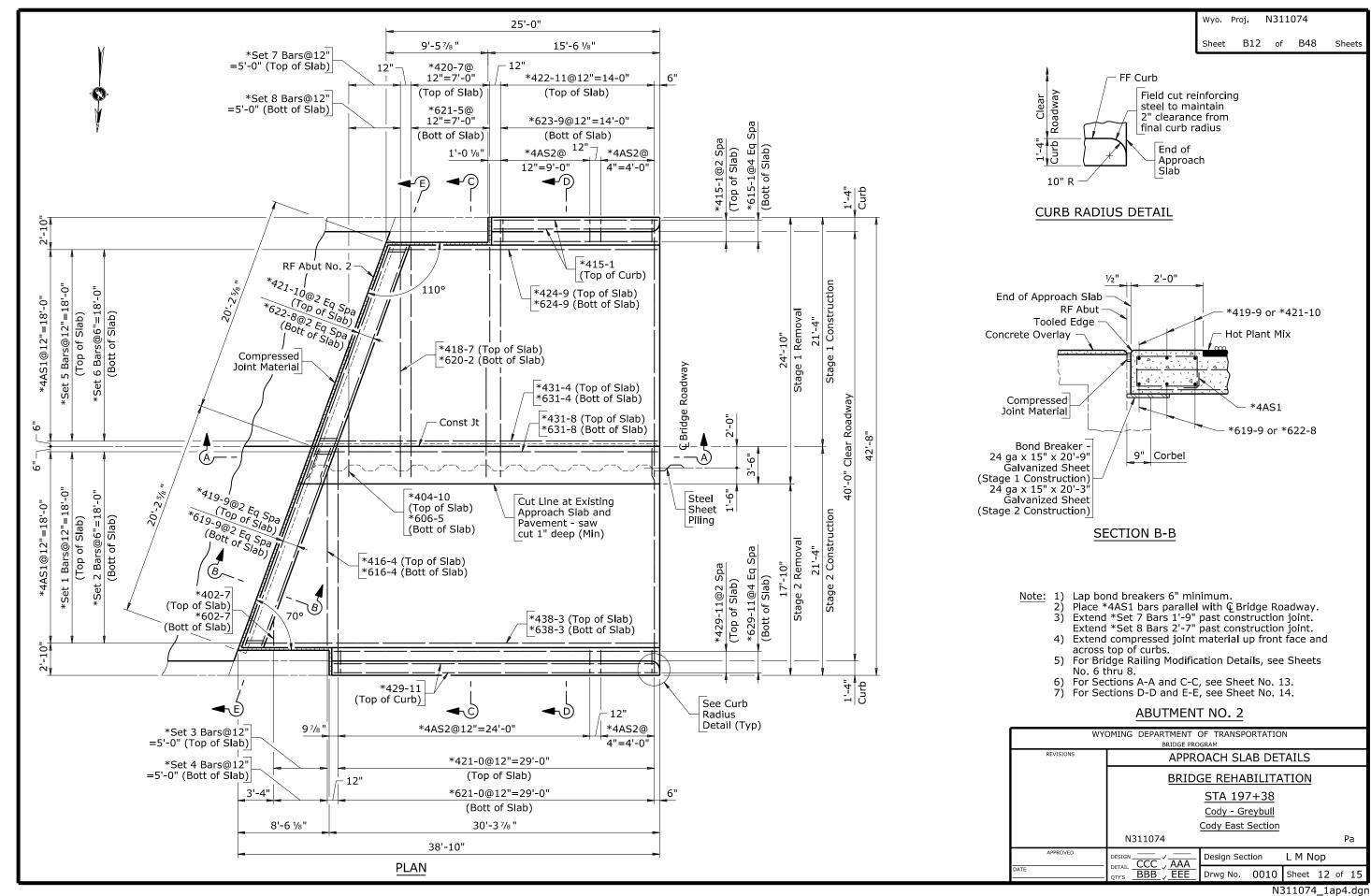
N311074_1ap3.dgn

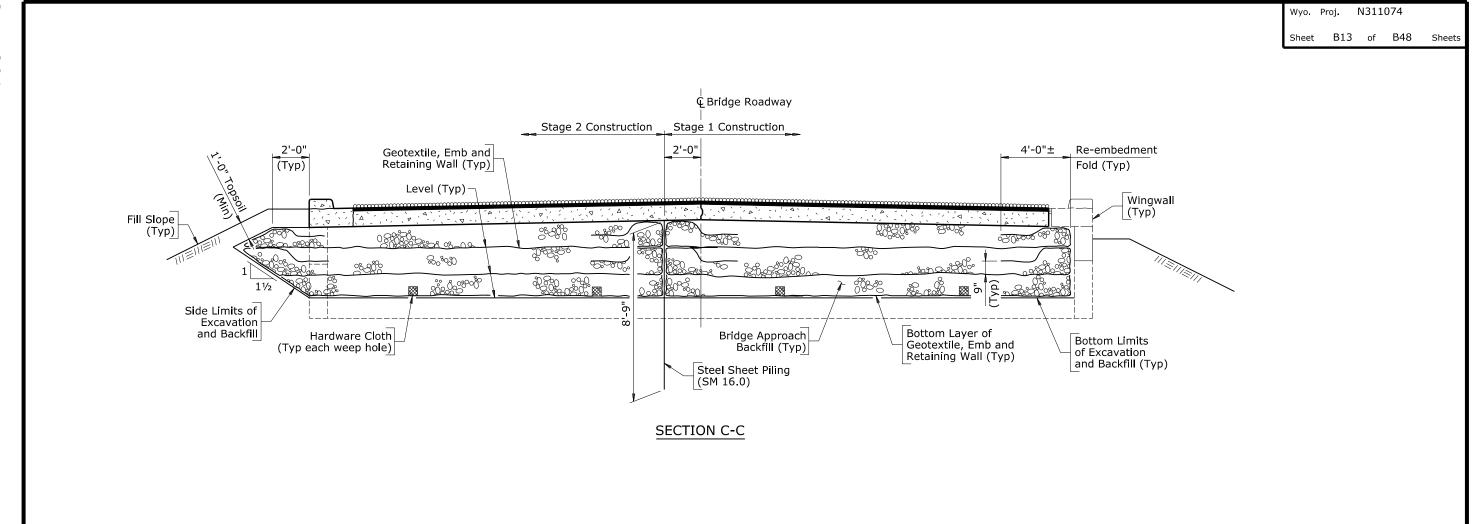
Drwg No.

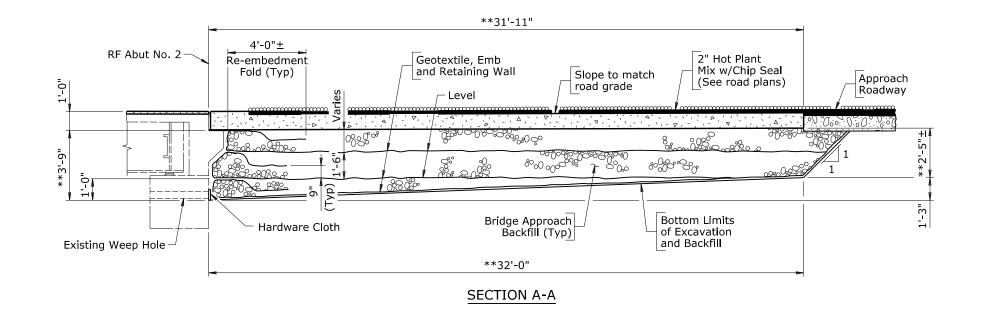




N







Note: 1) Dimensions preceded by a double asterisk (**) are

measured at © Bridge Roadway.

2) Extend bottom layer of geotextile up sheet piling and side limits of excavation and backfill to bottom of first layer of geotextile.

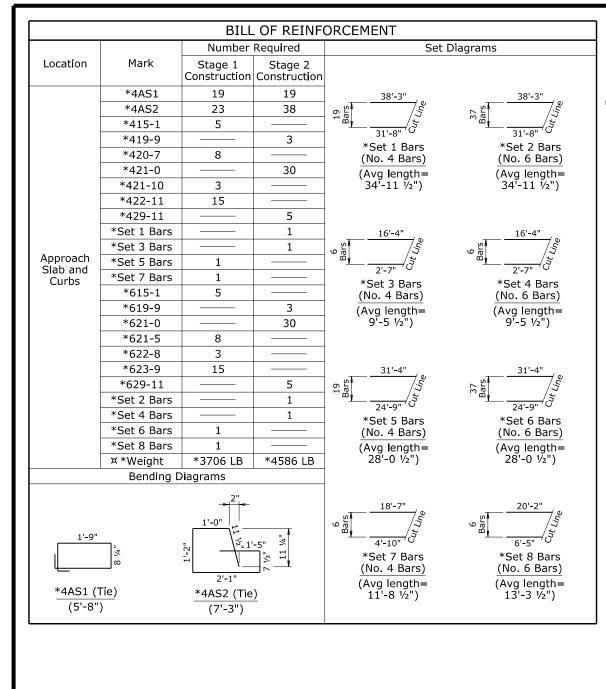
3) Clean existing weep holes. Place one 6" x 6" piece of aluminum or galvanized steel wire 4 mesh hardware cloth (Mininum wire diameter 0.03") centered over pipe end and firmly anchor to rear face abutment.
4) For location of Sections A-A and C-C, see Sheet

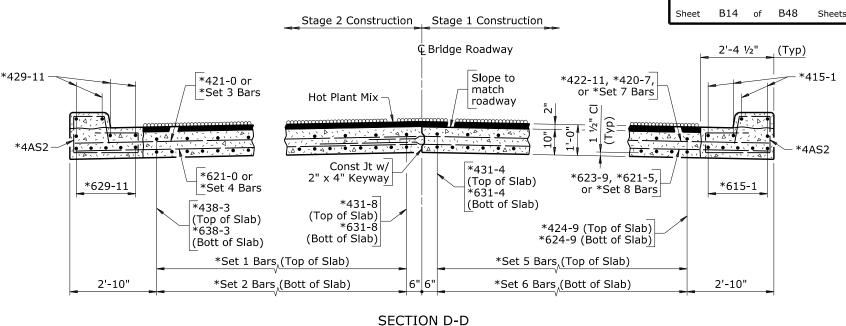
No. 12.

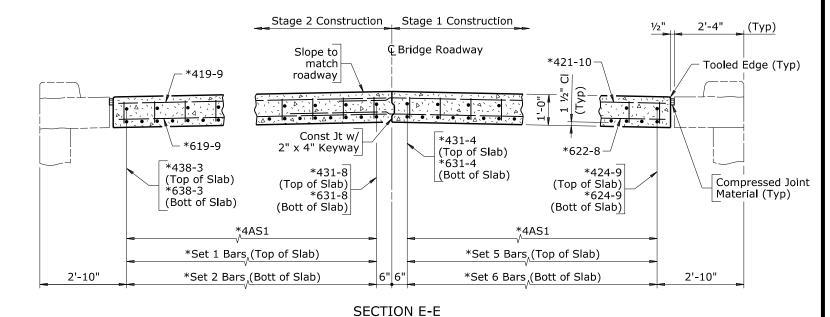
ABUTMENT NO. 2

WY	WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM					
REVISIONS	APPRO	APPROACH SLAB DETAILS				
	BRIDGE REHABILITATION					
	STA 197+38					
		Cody - Greybull				
		Cody East Section				
	N311074 Pa					
APPROVED	DESIGN	Design Section	L M Nop			
DATE	QTY'S BBB ZEE	Drwg No. 0010	Sheet 13	of 15		

N311074_1ap5.dgn







(Dimensions are perpendicular to & Bridge Roadway)

Level 2" R 1" Hot Plant Mix *4AS2 Opt Const Jt

1'-0 1/2"

TYPICAL CURB AND GUTTER SECTION

└─ Const Jt

Note: 1) Ensure the reinforcing steel fabricator prefixes

with numeral 3.

¤2) Approach slab reinforcing steel is not included in the quantity of reinforcing steel.

approach slab bar marks at Abutment No. 2

3) For location of Sections D-D and E-E, see Sheet No. 12.

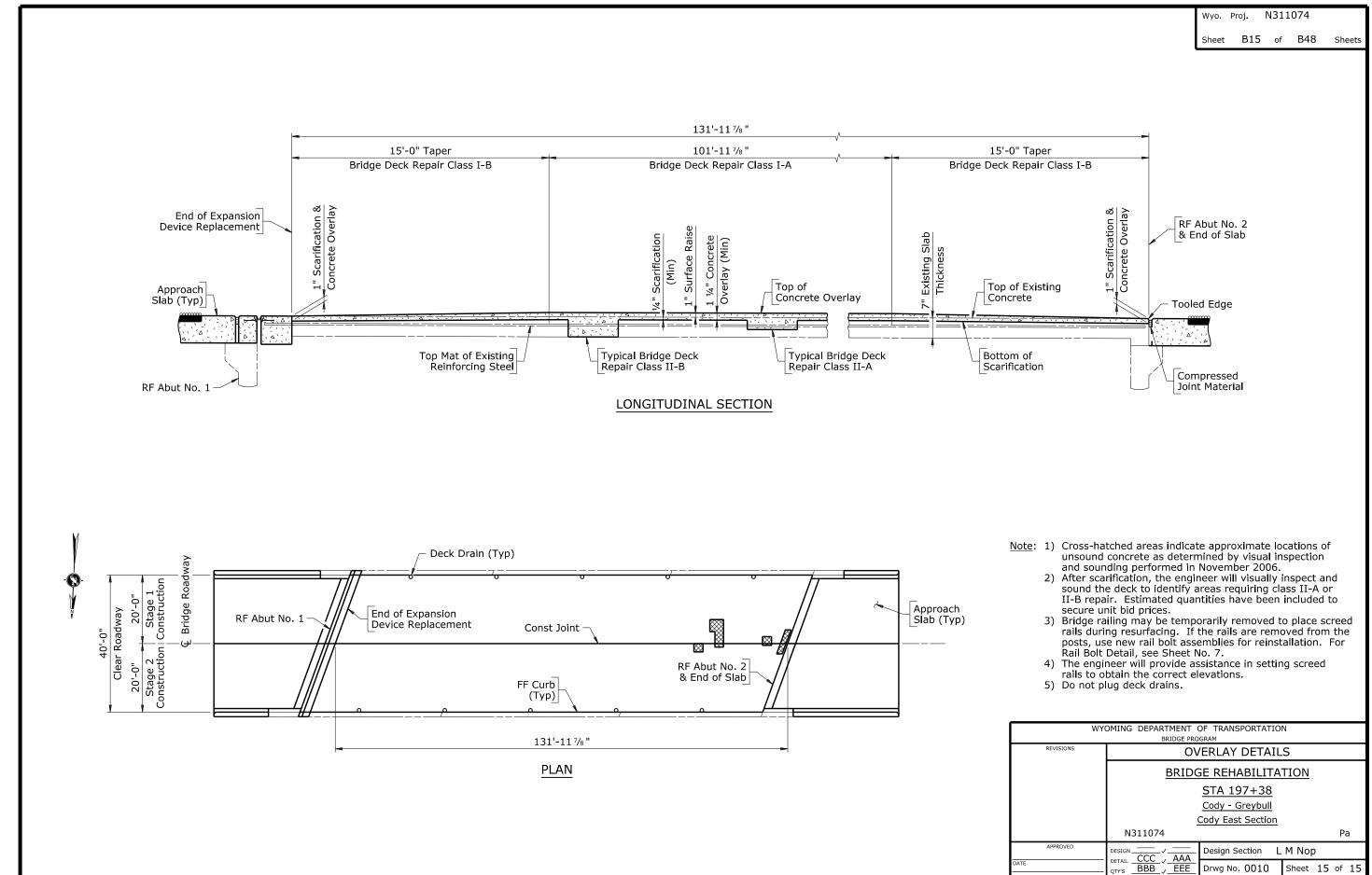
ABUTMENT NO. 2

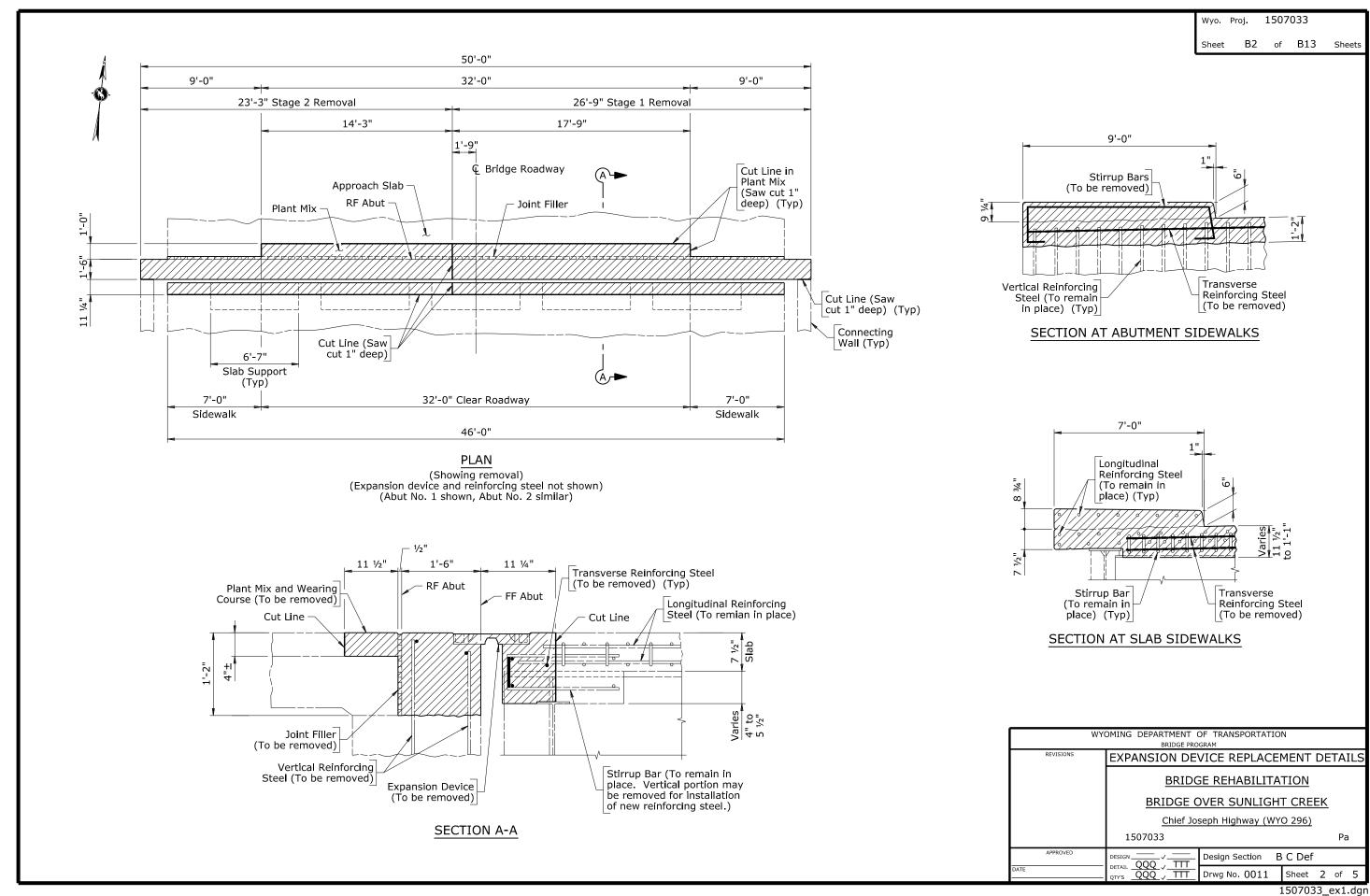
Wyo. Proj. N311074

WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM						
REVISIONS		APPROACH SLAB DETAILS				
	BRIDGE REHABILITATION					
	STA 197+38					
		Cody - Greybull				
	(Cody East Section				
	N311074 Pa					
APPROVED	DESIGN	Design Section	L M Nop			
DATE	QTY'S BBB EEE	Drwg No. 0010	Sheet 14	of 15		

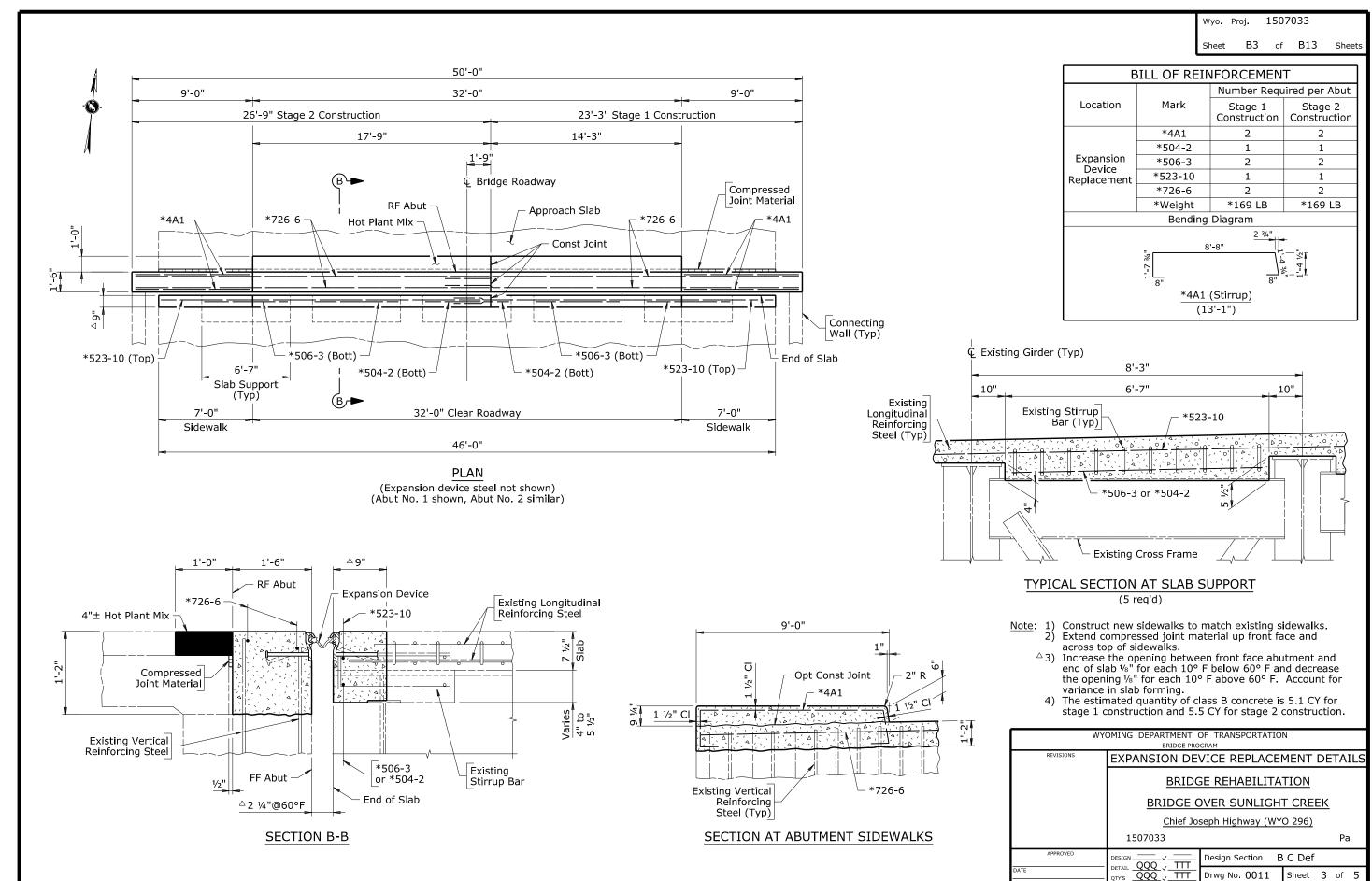
N311074_1ap6.dgn

N311074_1rs.dgn

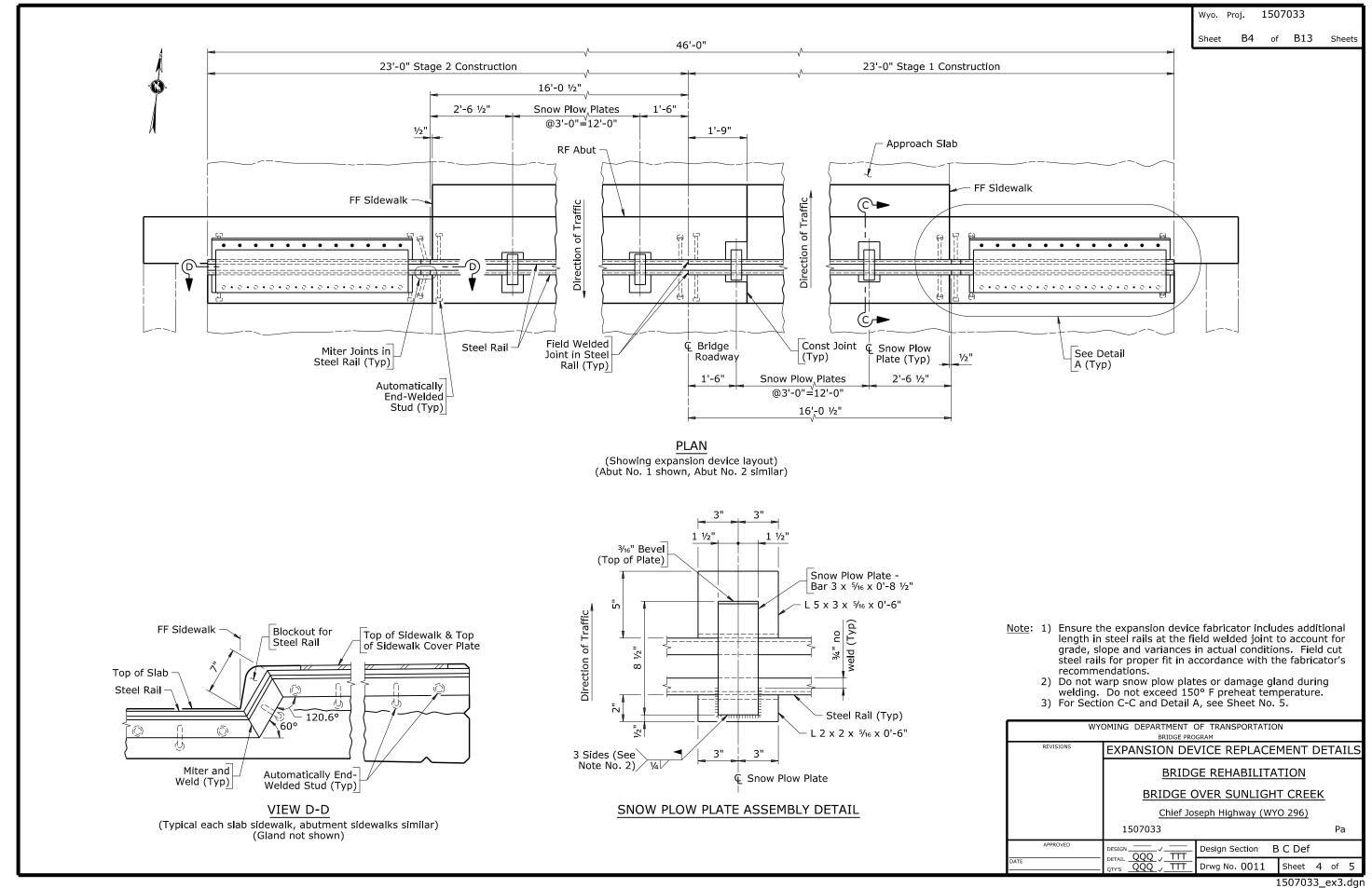


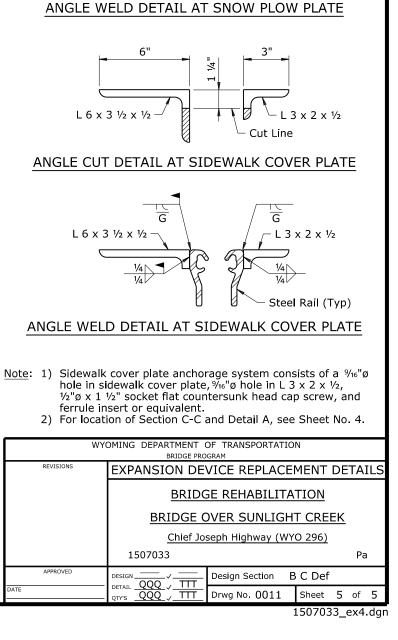


1507033_ex2.dgn



2



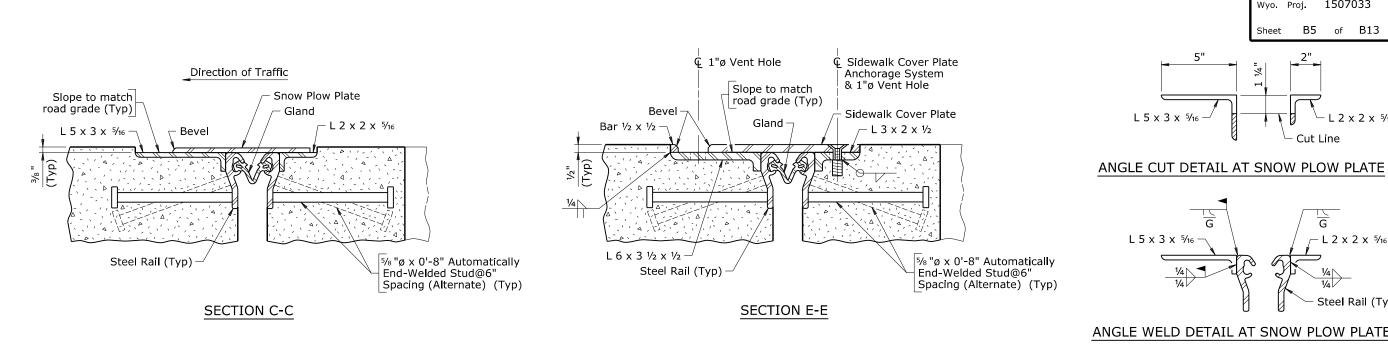


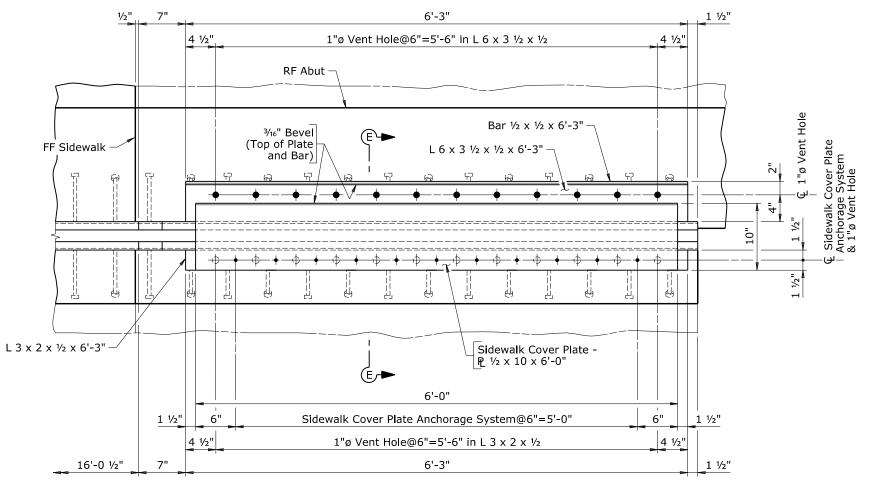
Wyo. Proj. 1507033

B5 of B13 Sheets

-L2x2x 5/16

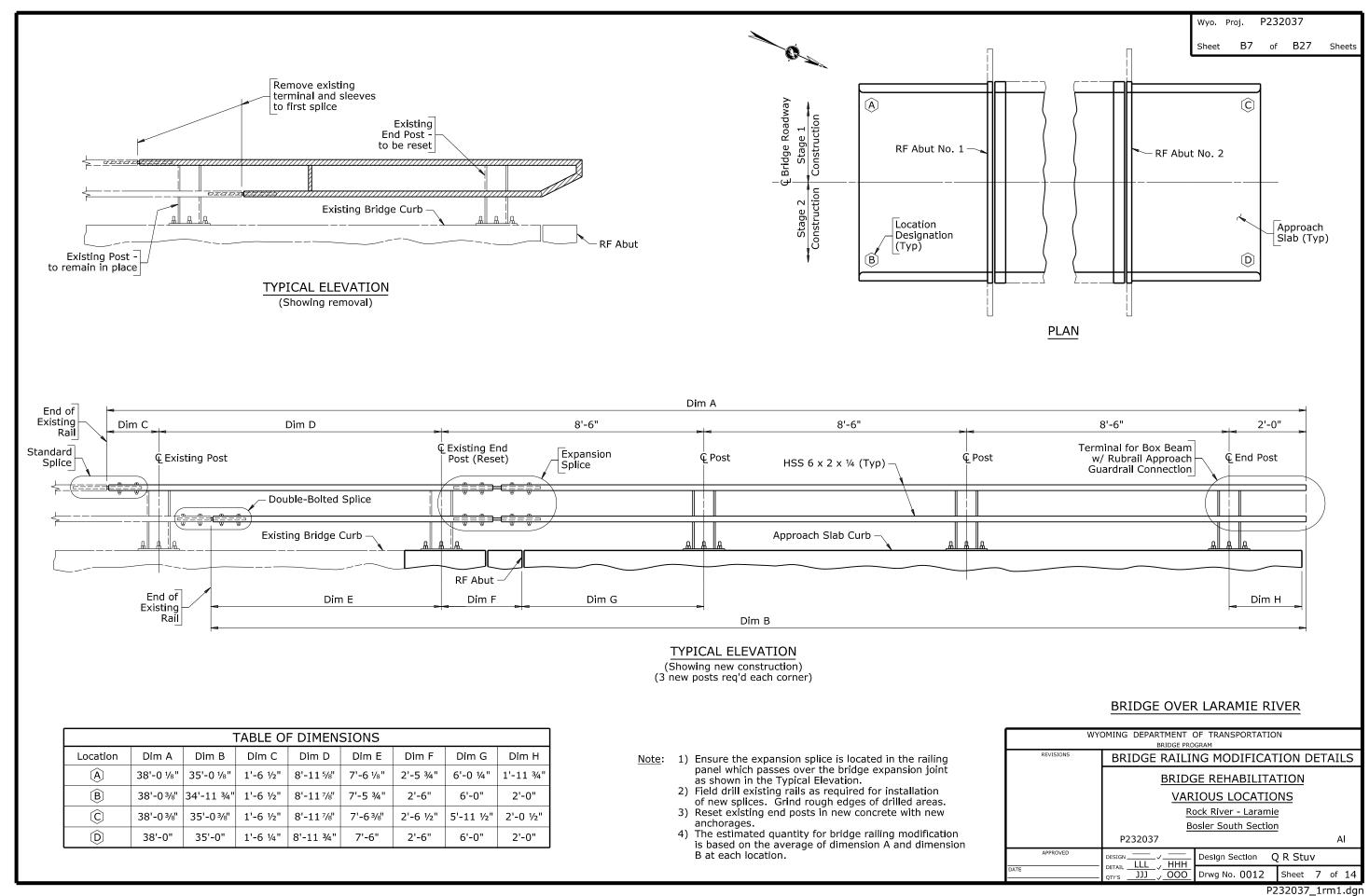
Steel Rail (Typ)





DETAIL A (Cap screws not shown)



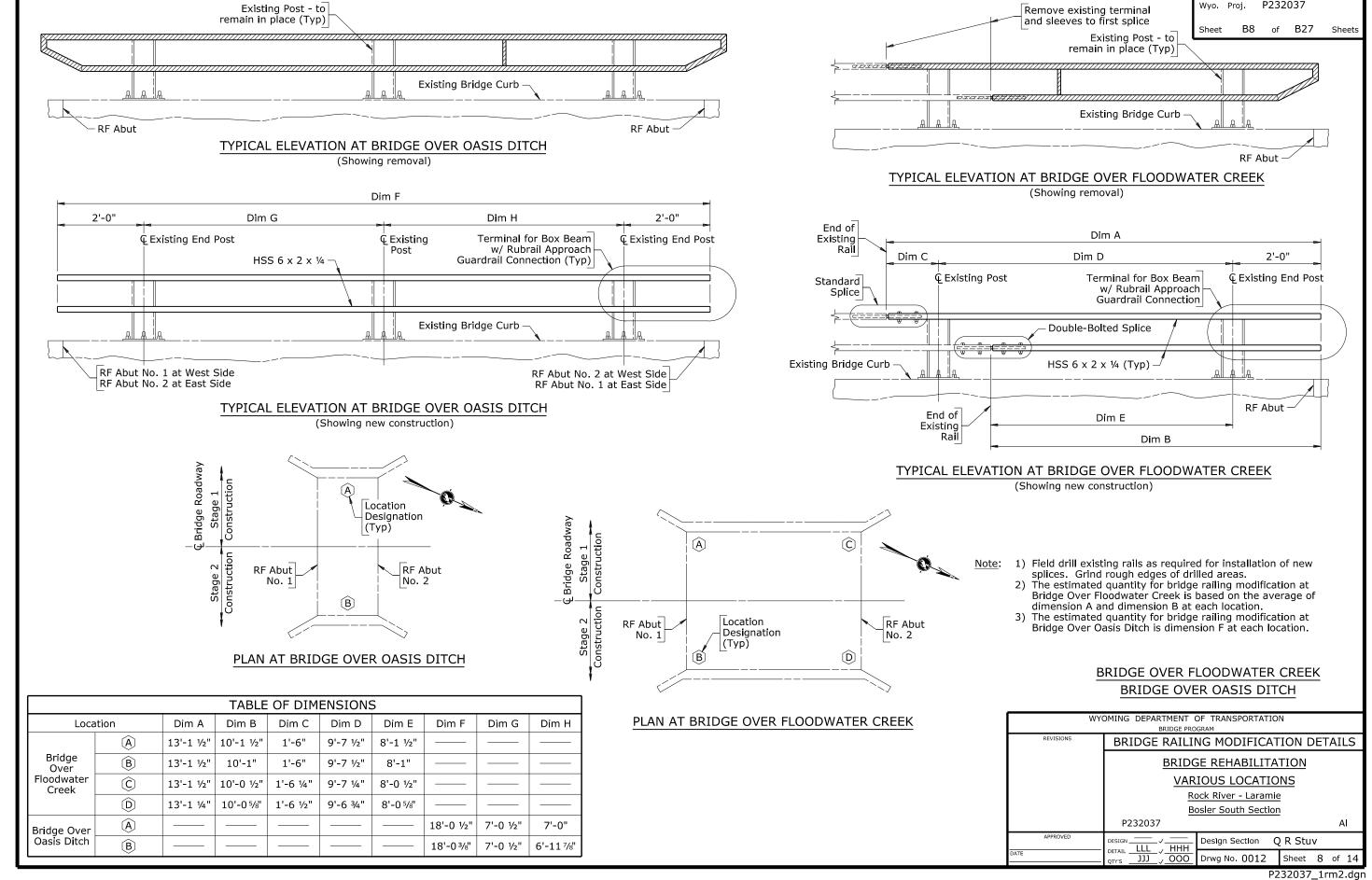


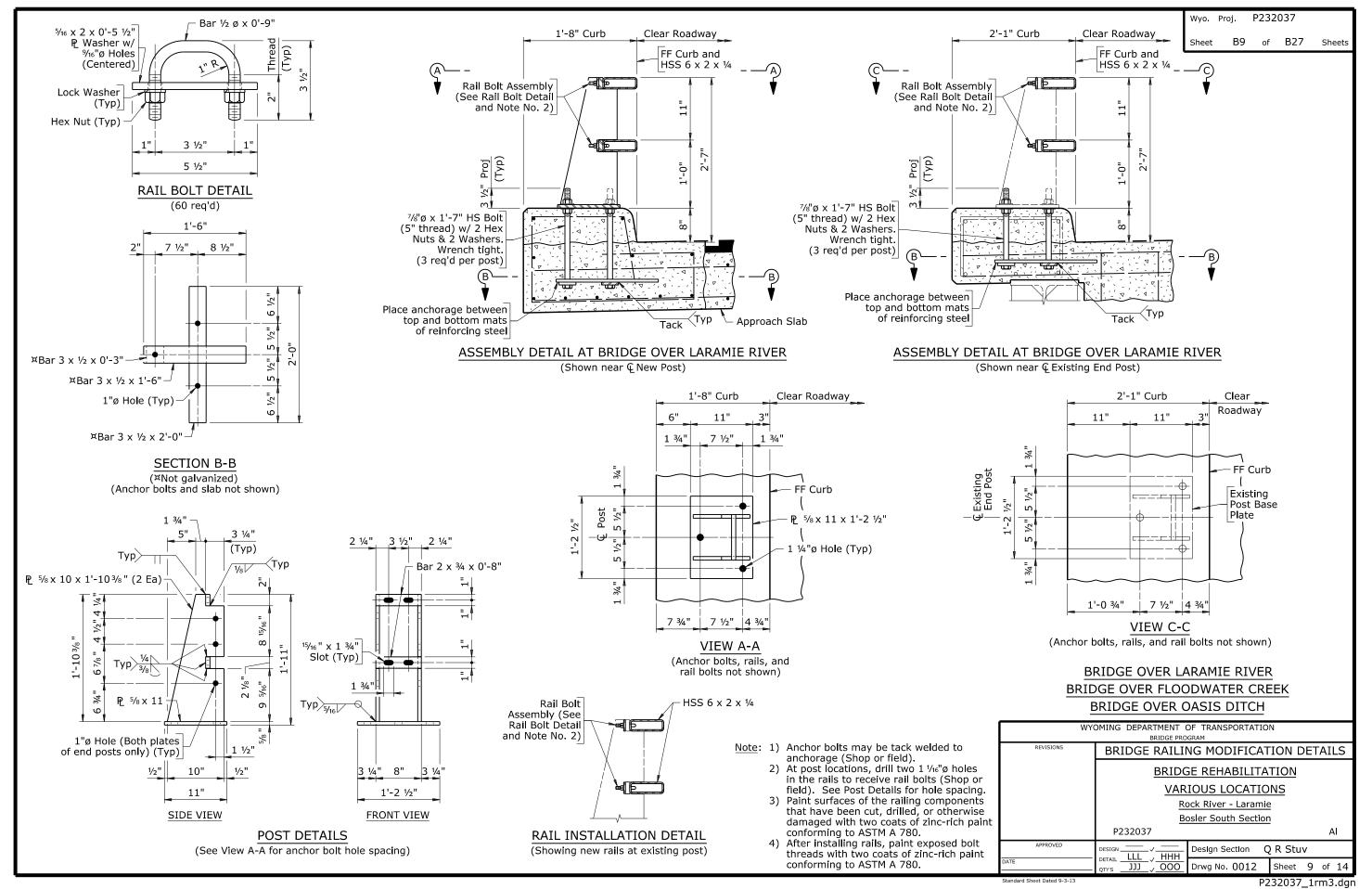
4

xample

P232037

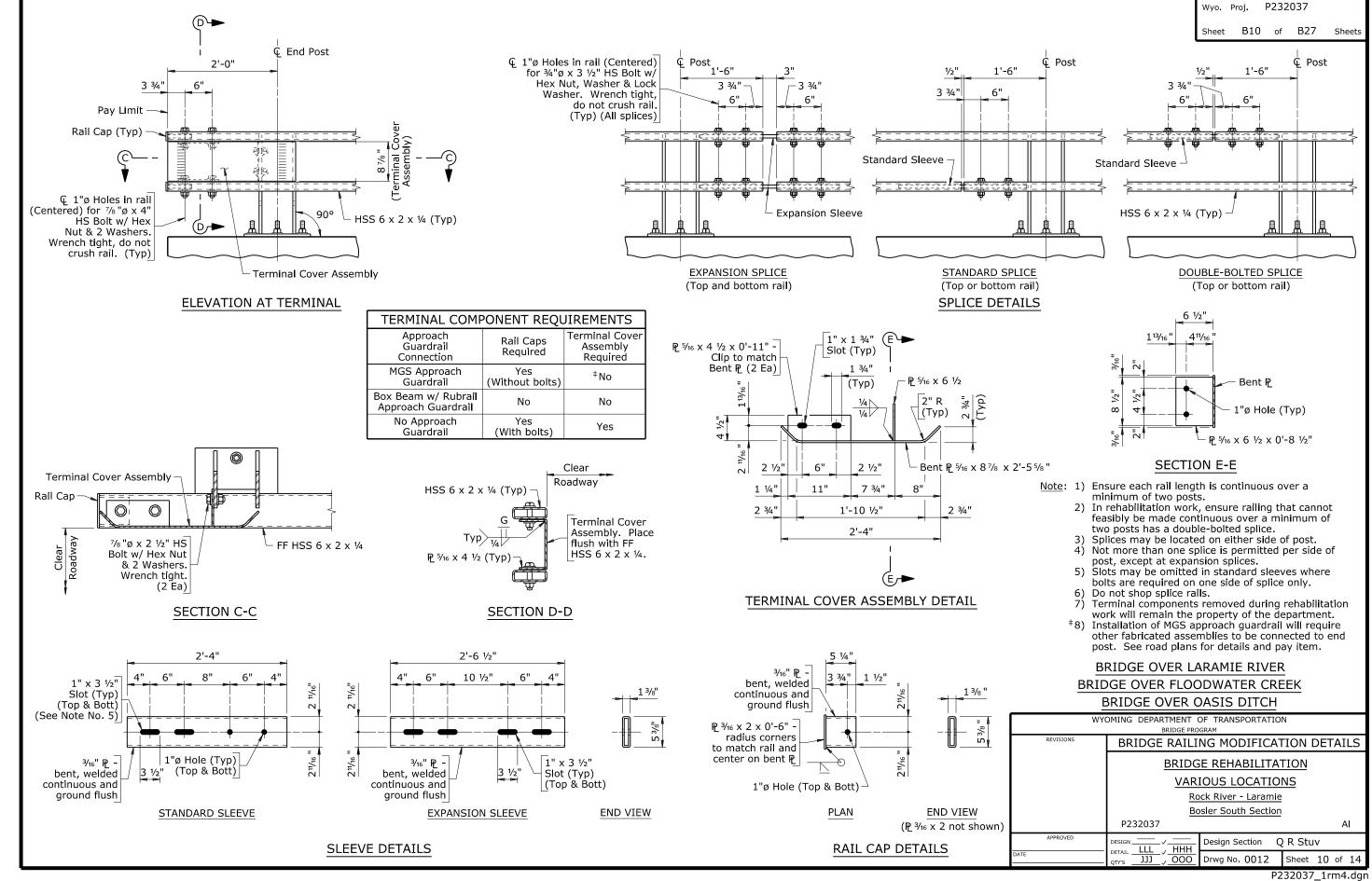
Wyo Proj

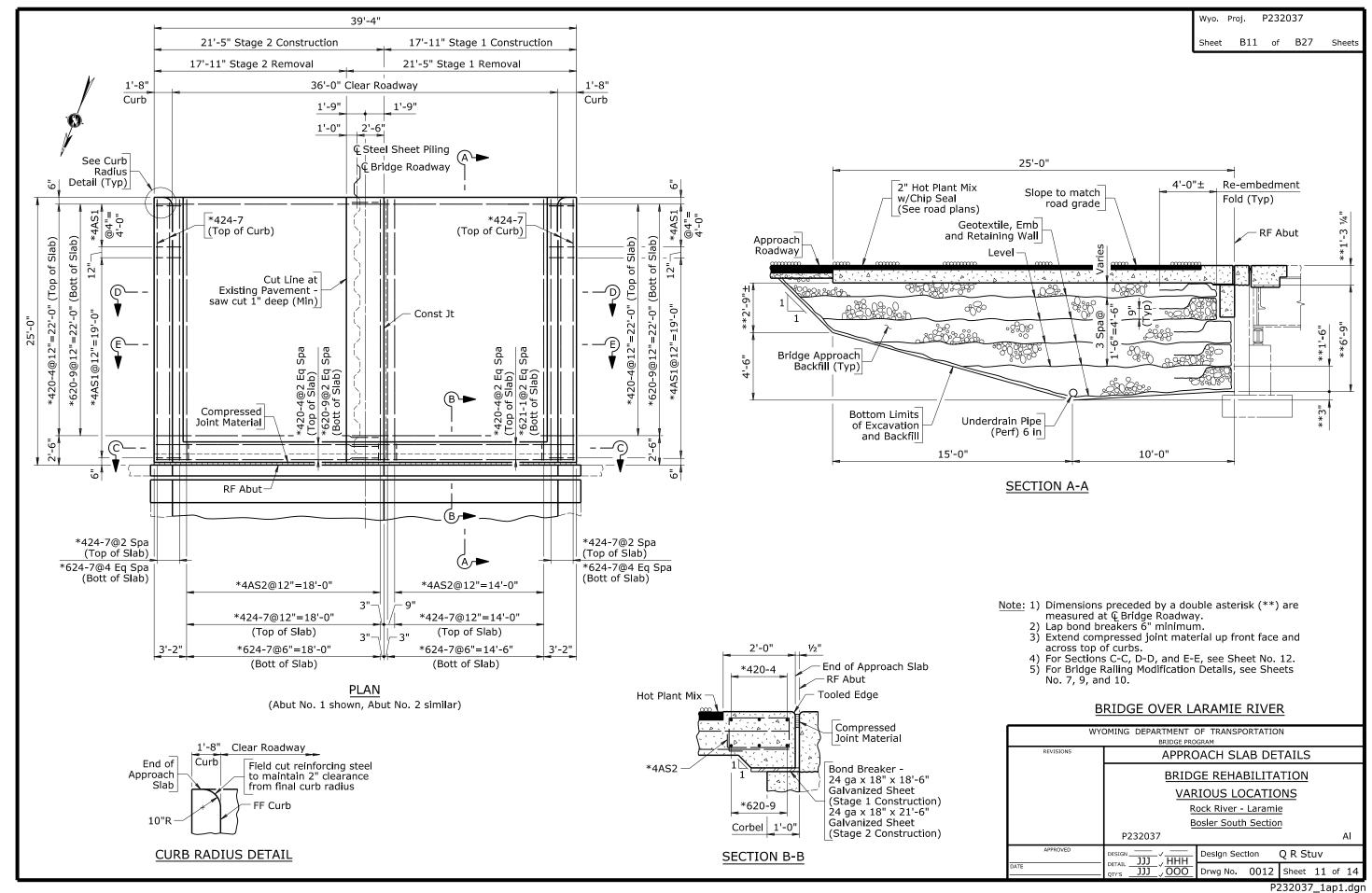


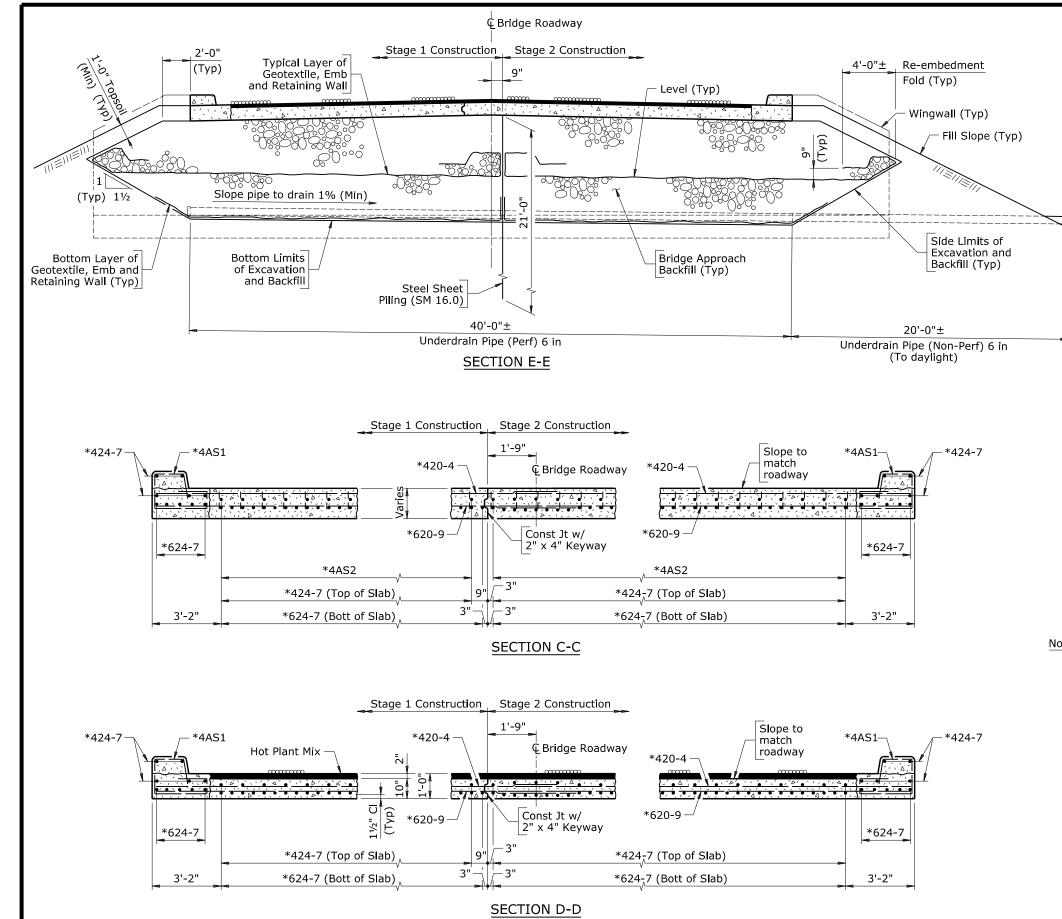


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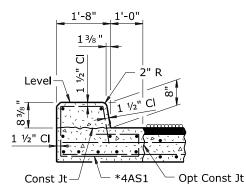


Wyo. Proj. P232037
Sheet B12 of B27 Sheets

*4AS2 (Tie)

(5'-6")

BILL OF REINFORCEMENT Number Required Per Approach Slab Mark Location Stage 2 Stage 1 Construction Construction *4AS1 33 33 *4AS2 19 15 Approach *420-4 26 26 Slab *424-7 20 24 and Curbs *620-9 26 26 *624-7 35 42 *3022 LB *3361 LB **Weight Bending Diagrams 1'-8"



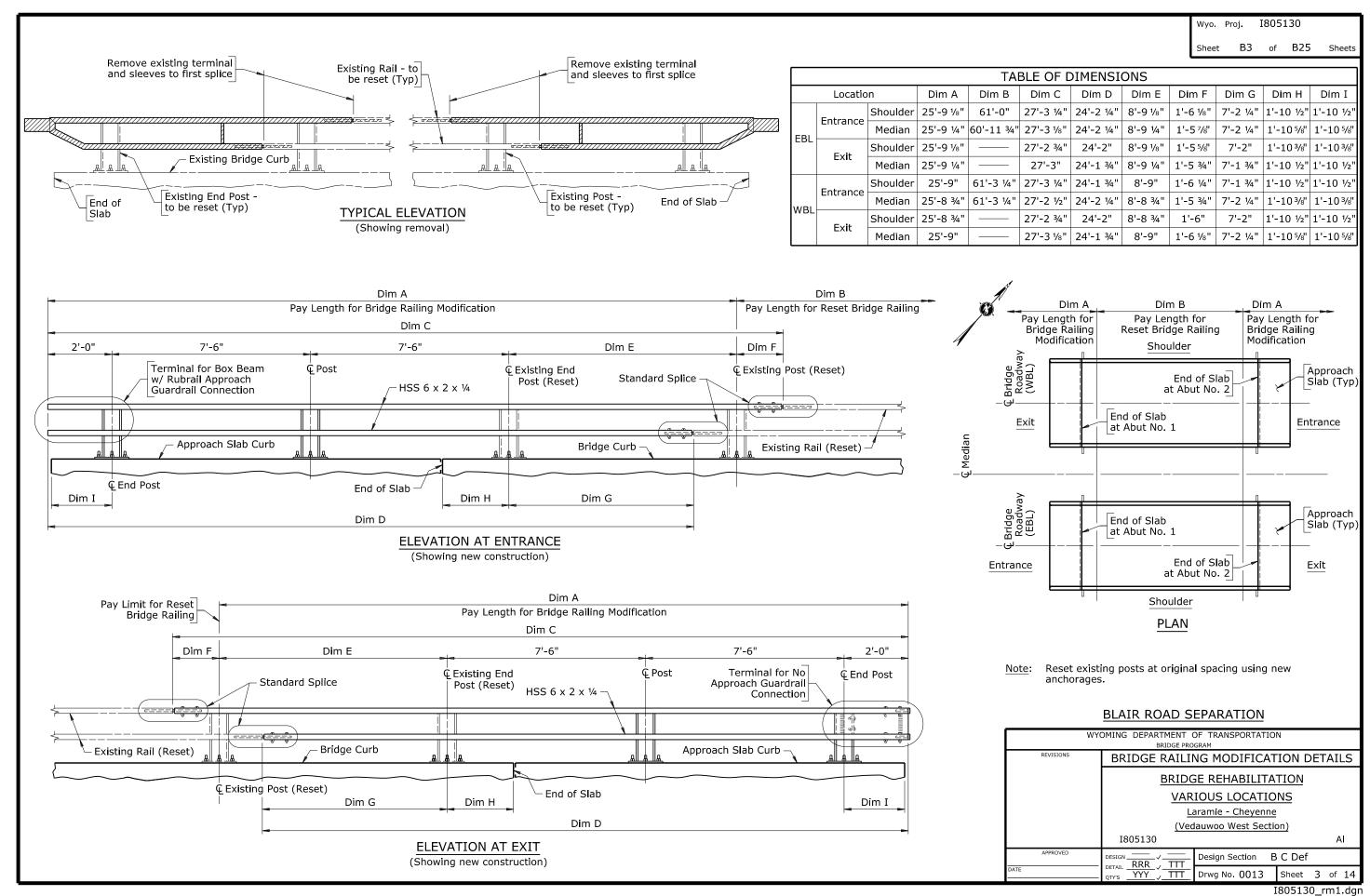
*4AS1 (Tie) (8'-3")

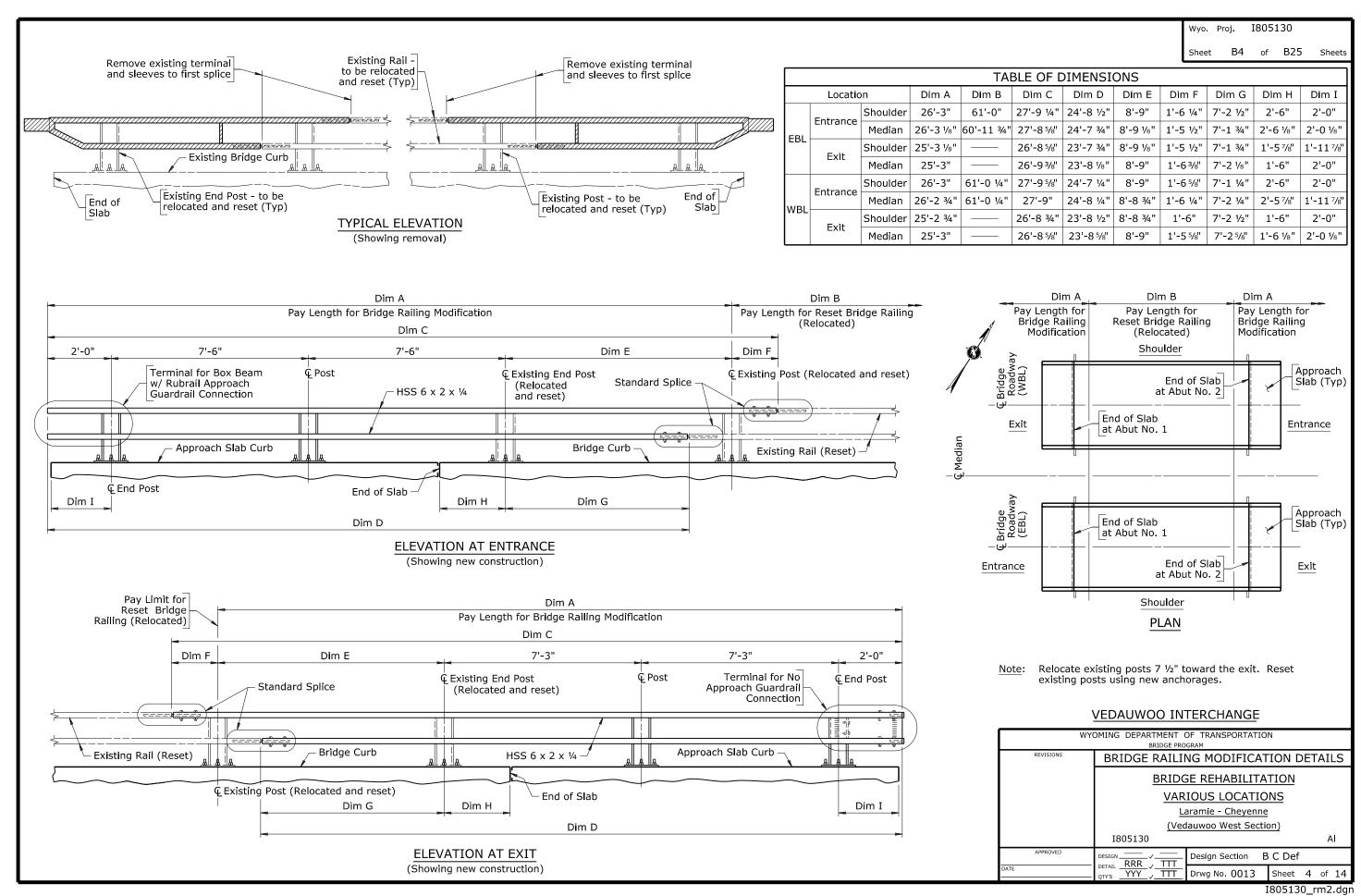
TYPICAL CURB AND GUTTER SECTION

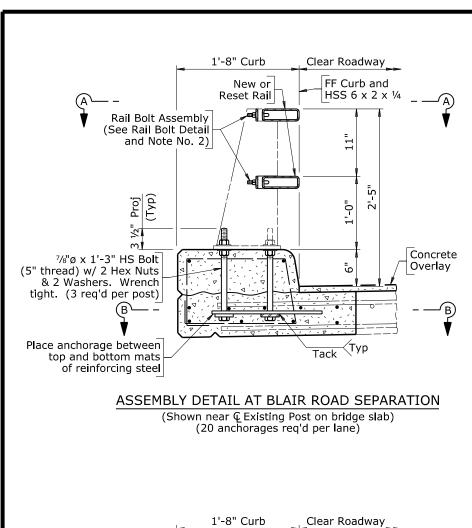
- Note: 1) Ensure the reinforcing steel fabricator prefixes approach slab bar marks with numeral 6 at Abutment No. 1 and numeral 7 at Abutment No. 2.
 - ‡2) Approach slab reinforcing steel is not included in the quantity of reinforcing steel.
 - 3) Extend bottom layer of geotextile up sheet piling and side limits of excavation and backfill to bottom of first layer of geotextile.
 - 4) For location of Sections C-C, D-D, and E-E, see Sheet No. 11.

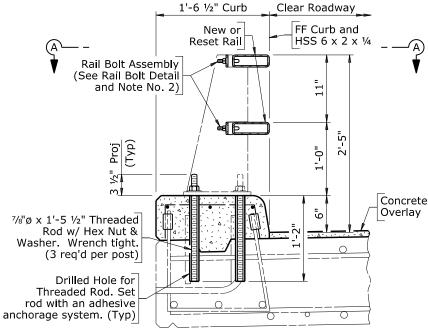
BRIDGE OVER LARAMIE RIVER

WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM						
REVISIONS	1	APPROACH SLAB DETAILS				
	BRIDGE REHABILITATION					
	VARIOUS LOCATIONS					
	Rock River - Laramie					
	Bosler South Section					
	P232037 Al					
APPROVED	DESIGN	Design Section	Q R Stuv			
DATE	QTY'S JJJ V 000	Drwg No. 0012	Sheet 12 of 14			



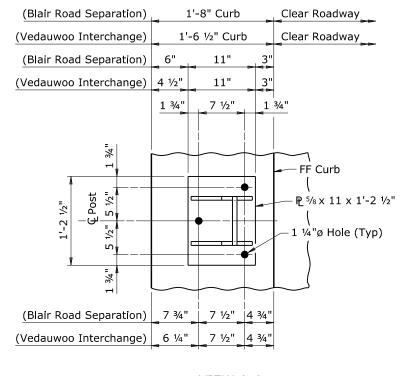






ASSEMBLY DETAIL AT VEDAUWOO INTERCHANGE

(Shown near & Existing Post on bridge slab) (20 post locations reg'd per lane)



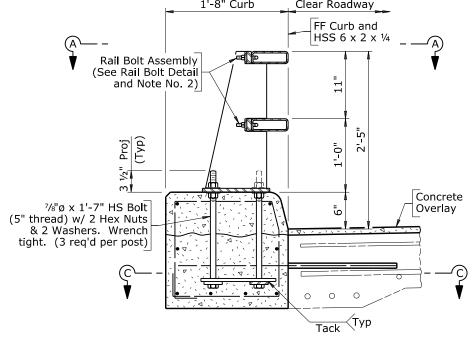
I805130

B5 of B25

Wyo Proj

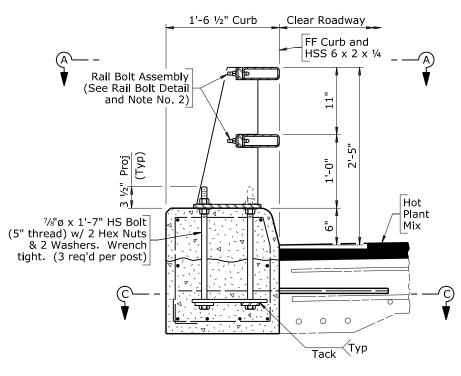
VIEW A-A

(Anchor bolts, rails, and rail bolts not shown) (New posts shown, existing posts similar)



ASSEMBLY DETAIL AT BLAIR ROAD SEPARATION

(Shown near & Post on approach slab) (8 posts and anchorages req'd per lané)



ASSEMBLY DETAIL AT VEDAUWOO INTERCHANGE

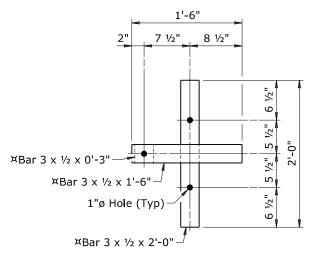
(Shown near € Post on approach slab) (8 posts and anchorages reg'd per lane) 1) Anchor bolts may be tack welded to anchorage (Shop or field).

- 2) At post locations, drill two 1 1/16" ø holes in the new rails to receive rail bolts (Shop or field). See Post Details, Sheet No. 6, for hole
- 3) Place and properly align reset posts at Vedauwoo Interchange after placing new concrete.
- 4) Before installing rails, paint cut, drilled, or otherwise damaged surface areas of the railing components with two coats of zinc rich paint conforming to ASTM A 780.
- 5) After installing the rails, paint exposed bolt threads with two coats of zinc rich paint conforming to ASTM A 780.
 6) For Sections B-B and C-C and Rail Bolt Detail, see Sheet No. 13.

ALL LOCATIONS

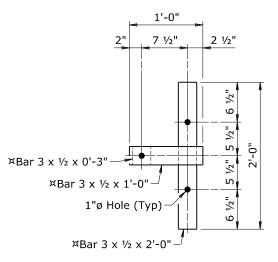


I805013_rm3.dgn



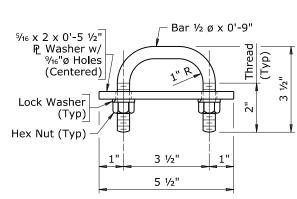
SECTION B-B

(XNot galvanized)
(Anchor bolts and slab not shown)



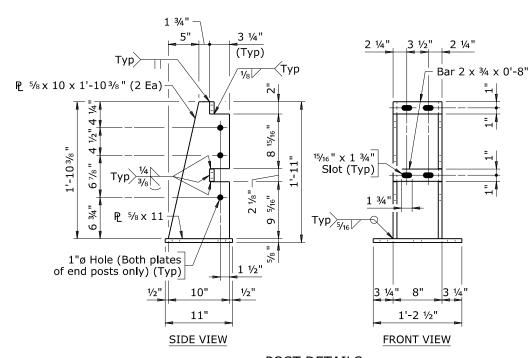
SECTION C-C

(¤Not galvanized) (Anchor bolts and slab not shown)



RAIL BOLT DETAIL

(56 req'd per lane at Blair Road Separation) (56 req'd per lane at Vedauwoo Interchange)



POST DETAILS

(See View A-A for anchor bolt hole spacing)

Note: For View A-A and location of Sections B-B and C-C, see Sheet No. 5.

ALL LOCATIONS

WY	WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM					
REVISIONS						
	BRIDGE REHABILITATION					
	VARIOUS LOCATIONS					
	<u> Laramie - Cheyenne</u>					
	<u>(Ved</u>	dauwoo West Secti	on)			
	I8050130 Al					
APPROVED	DESIGN	Design Section B	C Def			
DATE	QTY'S YYY 7 TTT	Drwg No. 0013	Sheet 6 of 14			

I805130_rm4.dgn

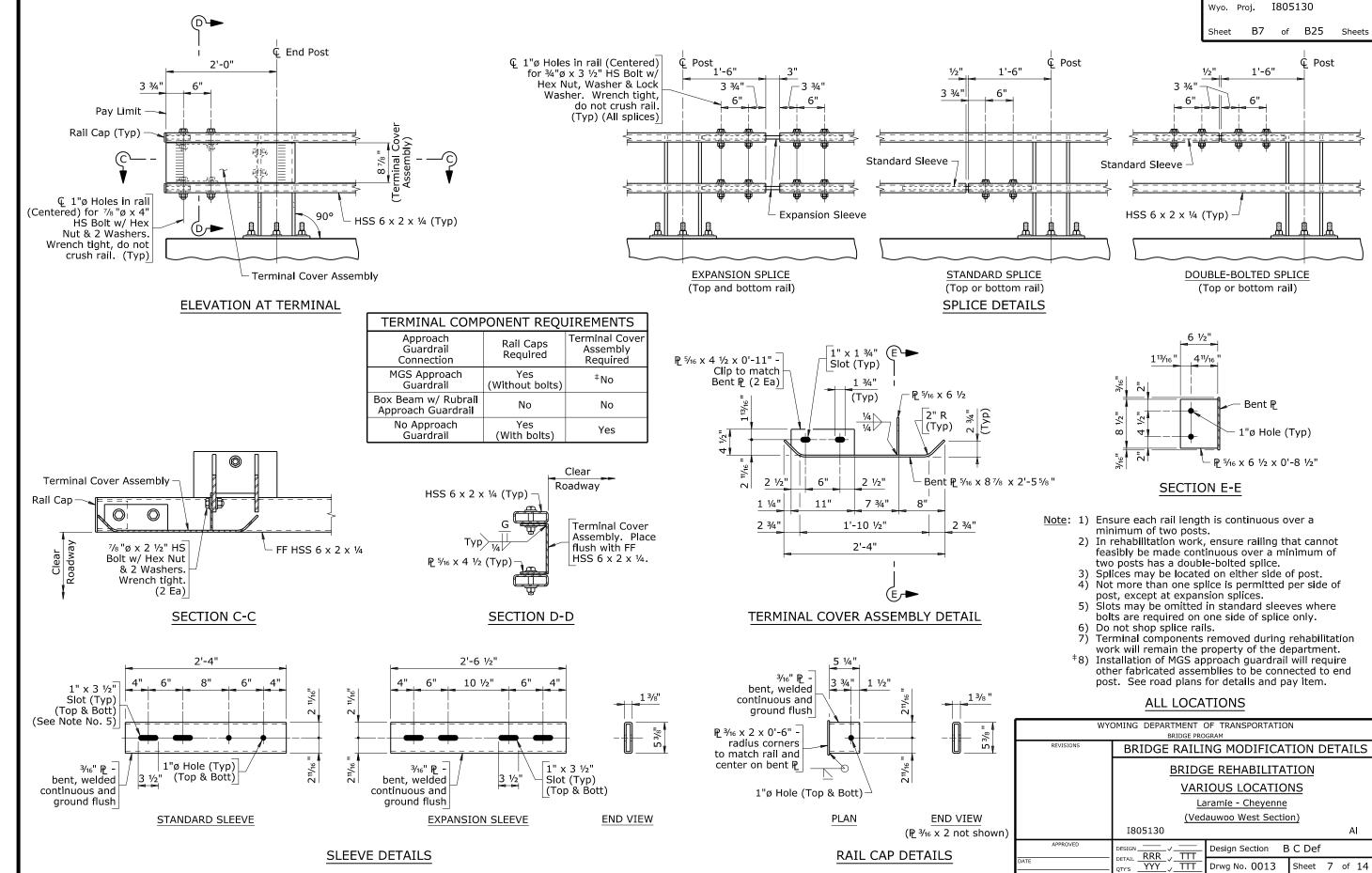
..22 - Example

4

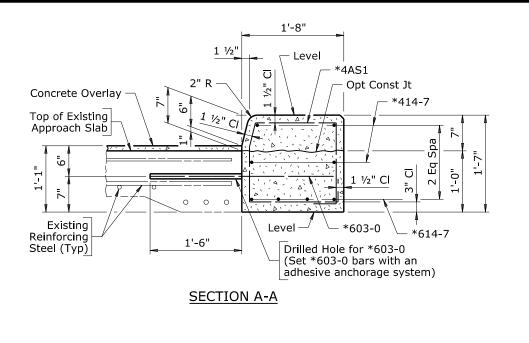
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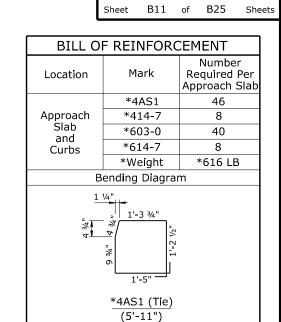
П

xample

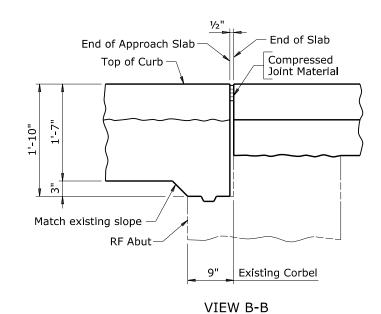


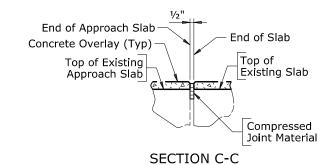
et Dated 9-3-13 I805130_rm5.dgn





Wyo. Proj. I805130





Note: 1) Ensure the reinforcing steel fabricator prefixes bar marks this sheet as follows:

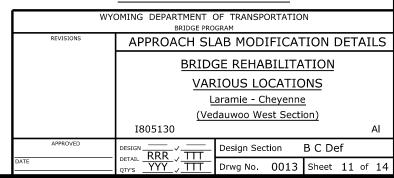
Numeral 5 - Abutment No. 1 - EBL Numeral 6 - Abutment No. 2 - EBL Numeral 7 - Abutment No. 1 - WBL Numeral 8 - Abutment No. 2 - WBL

2) Extend compressed joint material up front face and across top of curbs.

3) The estimated quantity of class B concrete for curbs is 5.8 CY per approach slab.

4) For Bridge Railing Modification Details, see Sheets No. 3 thru 7.

BLAIR ROAD SEPARATION



PLAN

(Abut No. 1 - EBL & WBL shown, Abut No. 2 - EBL & WBL similar)

See Curb

Radius Detail

15'-0"

*603-0@9"=14'-3"

*414-7 (Top of Curb

& Top of Slab)

*4AS1@12"=9'-0"

Compressed

RF Abut-

- End of Slab

Joint Material

*4AS1@ 12"

4"=4'-0"

*614-7@3 Eq Spa

Bridge Roadway (Sym except for slope)

ىر_)—

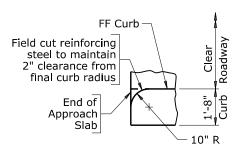
Slab

Roadway & Existing Approach

Clear

38'-0"

Example



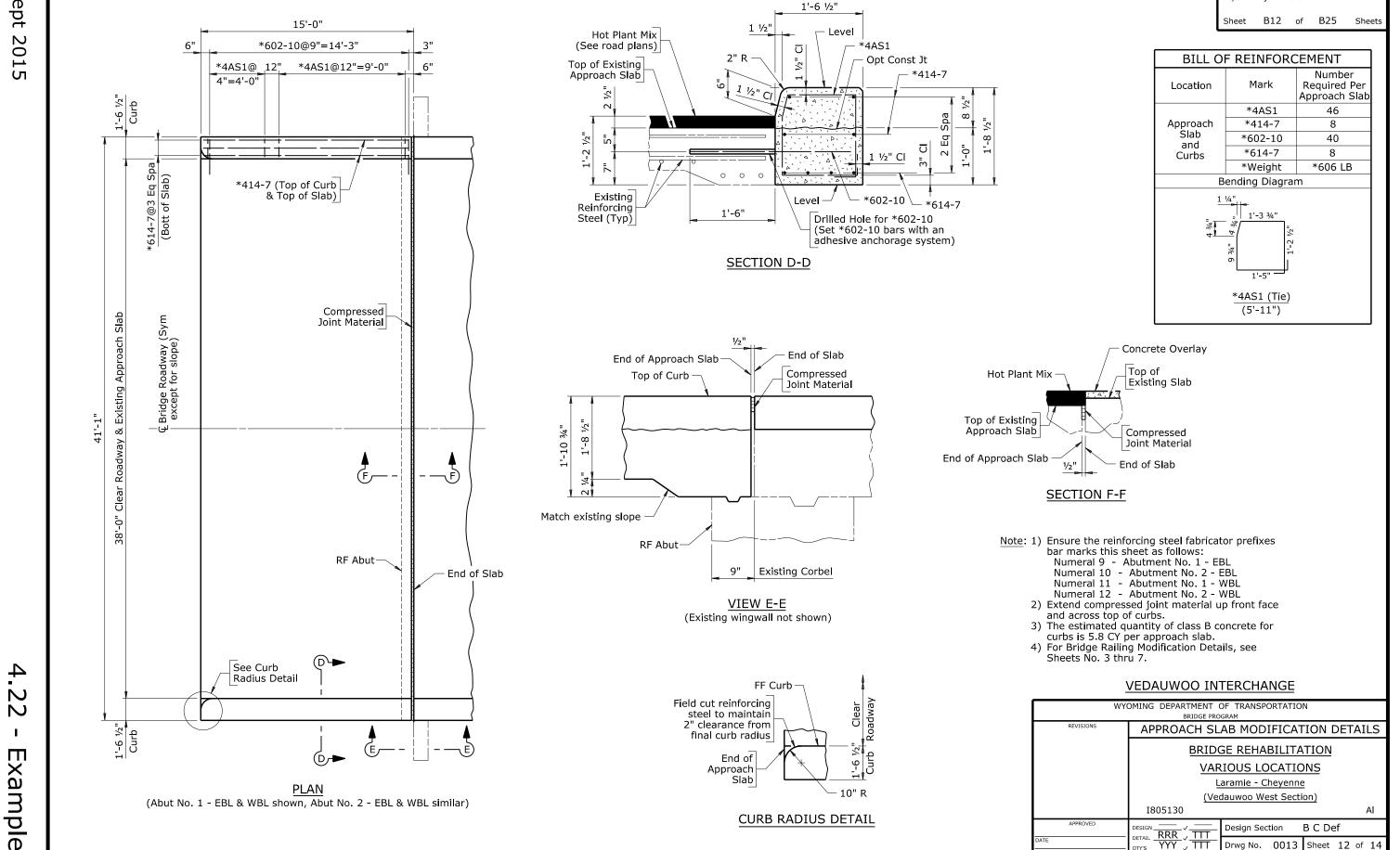
(Existing wingwall not shown)

CURB RADIUS DETAIL

I805130_ap1.dgn

PLAN

(Abut No. 1 - EBL & WBL shown, Abut No. 2 - EBL & WBL similar)



CURB RADIUS DETAIL

I805130_ap2.dgn

B C Def

Drwg No. 0013 Sheet 12 of 14

(Vedauwoo West Section)

Design Section

I805130

RRR / TTT YYY TIT

Wyo. Proj. I805130

BRIDGE REHABILITATION VARIOUS LOCATIONS

WHEATLAND - GLENDO ROAD

(CASSA NORTH SECTION)

I252137

PLATTE COUNTY

DESIGN DATA

<u>SPECIFICATIONS</u>: AASHTO Standard Specifications for Highway Bridges, 17th Edition

REINFORCED CONCRETE: Load Factor Design -

Class B Concrete $f'_c = 3250 \text{ psi}$ Reinforcing Steel $f_y = 60,000 \text{ psi}$ (Grade 60)

 $f_y = 40,000 \text{ psi (Grade 60)}$

INDEX OF DRAWINGS

Drawing: Title Sheet	2 2 3-4 5 6 7-10 11-12 13-20 24
Retaining Wall Details	
Slope Paving Details	28 - 30
Reference Sheets:	Sheet No.
Sta 119+05	B31-B37 & B49-B50
Sta 384+32	B38-B40 & B49-B55
Sta 386+96	B41-B48 & B49-B55

INDEX OF STRUCTURES							
Feature Intersected	Station	RM	Structure Number	Lane			
Machinery Pass	119+05 ML2	- 110+0F MI2F 100-12	Machinery Dage 110 LOE MIGE	ML25	100.13	AFF	NBL
Machinery Pass	119+05	MILZS	109.12	AFG	SBL		
Middle Bear	384+32	ML25	104.04	AFD	NBL		
Interchange	304+32	MILZS	104.04	AFE	SBL		
Middle Bear Creek	386+96	ML25	103.99	AFB	NBL		
Middle Bear Creek	300+90	MILZS	103.99	AFC	SBL		

		ESTI	MATED QU	ANTITIES	- CODE 14					
ITEM NO	ITEM	UNIT	TOTAL	STA 1	19+05	STA 3	84+32	STA 3	86+96	ESTIMATE
ITEM NO.	11 ⊏141	OINTI	QUANTITY	NBL	SBL	NBL	SBL	NBL	SBL	ESTIMATE
109.04000	FORCE ACCOUNT WORK	\$\$	\$1000					\$500	\$500	
199.00000	CONTROLS FOR LEAD PAINT REMOVAL	LS	LUMP SUM	3 SY	3 SY					6 SY
202.03251	REMOVAL OF BRIDGE RAILING	FT	856			187	187	241	241	
202.03410	REMOVAL OF SURFACING	TON	280			41	56	111	72	
202.03465	REMOVAL OF CONCRETE	CY	82	4	4	13	13	24	24	
212.02100	DRY EXCAVATION	CY	5790	2320	1430	490	430	560	560	
212.03900	PERVIOUS BACKFILL MATERIAL	CY	40	30		10				
217.01010	GEOTEXTILE, EROSION CONTROL	SY	1150	1150						
217.01030	GEOTEXTILE, EMB AND RETAINING WALL	SY	9560	1580	1580	1380	1380	1820	1820	
503.01000	BRIDGE RAILING	FT	1256			287	287	341	341	
503.01100	BRIDGE RAILING MODIFICATION	FT	222	111	111					
507.01000	REINFORCED CONC APPROACH SLABS	SY	1442	256	256	236	236	229	229	
507.01100	BRIDGE APPROACH BACKFILL	CY	4280	1330	1330	330	330	480	480	
508.01000	REINFORCED CONC SLOPE PAVING	SY	1942	885		1057				
512.01040	COMPRESSED JOINT MATERIAL	FT	602	131	131	85	85	85	85	
512.01050	ELASTOMERIC COMP JOINT SEAL	FT	338					169	169	
513.00005	CLASS A CONCRETE	LS	LUMP SUM					8.2 CY	8.2 CY	16.4 CY
513.00015	CLASS B CONCRETE	LS	LUMP SUM	242.5 CY	4.1 CY	20.2 CY	6.2 CY	7.9 CY	7.9 CY	288.8 CY
514.00015	REINFORCING STEEL	LS	LUMP SUM	31,370 LB		1000 LB				32,370 LB
514.00025	REINFORCING STEEL (COATED)	LS	LUMP SUM	380 LB	380 LB	2260 LB	2260 LB	1880 LB	1880 LB	9040 LB
515.02710	BRIDGE DECK REPAIR CLASS I-A	SY	2308	326	326	368	368	460	460	
515.02730	BRIDGE DECK REPAIR CLASS II-A	SY	114	16	16	18	18	23	23	
515.02740	BRIDGE DECK REPAIR CLASS II-B	SY	12	2	2	2	2	2	2	
515.02800	SILICA FUME MODIFIED CONCRETE	CY	102	14	14	17	17	20	20	
516.42020	PAINT REPAIR - BRIDGE RAILING	LS	LUMP SUM	140 FT	140 FT					280 FT
599.00080	BRIDGE CONCRETE REPAIR	SF	21				3	13	5	
605.10006	UNDERDRAIN PIPE (PERF) 6 in	F	512	90	90	83	83	83	83	
605.20006	UNDERDRAIN PIPE (NON-PERF) 6 in	FT	174	30	30	25	25	32	32	
900.60000	CONTRACTOR QUALITY CONTROL (CONCRETE)	LS	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	

ı	WY	OMING DEPARTMENT		ON		
		BRIDGE PRO	GRAM			
	REVISIONS					
	APPROVED	DESIGN	Design Section [L M Nop		
	DATE	QTY'S	Drwg No. 0014	Sheet 1	of	30

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GENERAL NOTES

Designation

SPECIFICATIONS: WYDOT Standard Specifications for Road and Bridge Construction, 2003 Edition

DIMENSIONS: Longitudinal dimensions are horizontal and include no correction for grade. Slopes are vertical: horizontal.

FIELD MEASUREMENTS: Field verify dimensions before ordering materials.

CONSTRUCTION SAFETY REQUIREMENTS: At Sta 384+32, to ensure safety of the users below, employ removal and reconstruction methods to prevent debris from falling onto the roadway below the structures. Use warning signs and a debris containment system. Work necessary for these requirements is incidental to the contract pay items Removal of Concrete and Bridge Deck Repair Class II-B.

LINE STYLE DESIGNATION: Phantom lines indicate existing structure, solid lines indicate new construction, hatched areas indicate removal.

HAZARDOUS MATERIALS: The paint systems on the steel components of the existing structures may contain materials including lead and chromium that are hazardous if ingested, inhaled, or otherwise absorbed.

CONCRETE: Use class A concrete for the expansion device replacement at Sta 386+96. Use silica fume modified concrete for the bridge deck repairs and resurfacings. Use class B concrete at all other locations.

REINFORCING STEEL: Concrete cover to face of reinforcing steel is 2" unless noted. Dimensions for bent bars are out to out. Ensure bars marked with an asterisk (*) are coated.

BAR MARKS Straight Bars Bent Bars

ELASTOMERIC COMP JOINT SEAL: Use one of the following products: CV-3500 as manufactured by The D.S. Brown Co. WJ-350 as manufactured by Watson Bowman Acme Corp.

COMPRESSED JOINT MATERIAL: Use 2" wide (uncompressed) by 2" deep compressed joint material. Use one of the following products: Willseal 600 as manufactured by Willseal, LLC Illmod 600 as manufactured by Tremco Commercial Sealants & Waterproofing.

WEEP HOLE ASSEMBLIES: Work necessary for the retaining wall weep hole assemblies at Sta 119+05 and Sta 384+32 is incidental to the contract pay item Class B Concrete.

PREFORMED EXPANSION JOINT FILLER: Work necessary for the preformed expansion joint filler at Sta 119+05 and Sta 384+32 is incidental to the contract pay item Reinforced Conc Slope Paving.

SLOPE PAVING AND RETAINING WALLS: Work necessary for the slope paving and retaining walls at Sta 119+05 and Sta 384+32 is paid for under the NBL's respective contract pay items.

BRIDGE RAILING ANCHOR BOLTS: Use threaded rods conforming to ASTM F 1554 (Grade 105).

ADHESIVE ANCHORAGE SYSTEM: Use one of the following products to set bridge railing anchor bolts:

CIA Gel System as manufactured by USP Structural Connectors Epcon System as manufactured by ITW Red Head Sure-Anchor I (J-51) as manufactured by Dayton Superior HIT-RE 500 System as manufactured by Hilti, Inc.

Drill and prepare holes for the anchorage system and install threaded rods in accordance with the manufacturer's recommendations. Ensure pullout strength of equal or greater capacity to the corresponding threaded rods. Work necessary for the adhesive anchorage system is incidental to the contract pay item Bridge Railing.

DRY EXCAVATION: The estimated quantity of dry excavation at the approach slab replacements is calculated below existing finished grade to the limits shown and includes removal of the existing approach slabs. The estimated quantity of dry excavation at the retaining walls is calculated below existing ground line.

REMOVAL OF ASPHALT: Remove the existing asphalt overlays from the bridge decks listed below by cold milling to approximately ½" above the original concrete surface. Do not damage the bridge decks while removing the remaining ½" of asphalt. The approximate depth of existing asphalt is as follows:

Sta 384+32 - NBL ---- 2" SBL ---- 2 34" Sta 386+96 - NBL ---- 4 1/4" SBL ---- 2 3/4"

REMOVAL OF CONCRETE: Remove portions of the existing structures to the limits shown. Thoroughly clean concrete from reinforcing steel to remain in place and straighten as required. Remove and replace damaged reinforcing steel with the same size bar and weld-splice where necessary at no additional cost to the department.

EPOXY RESIN BONDING COMPOUND: At replacement and repair locations using class A or class B concrete, clean the roughened surfaces of the existing concrete and coat with epoxy resin bonding compound. If the bonding compound gels before concrete placement, remove by sandblasting and reapply. Use bonding compound conforming to Subsection 810.6, Epoxy Resin. Mix and apply in accordance with manufacturer's recommendations. Work necessary for the epoxy resin bonding compound is incidental to the contract pay items Class A Concrete and Class B Concrete.

WEEP HOLE GROUTING: At Sta 119+05, fill existing weep holes with nonshrink grout before placing reinforced bridge approach fills. Work necessary for grouting the weep holes is incidental to the contract pay item Bridge Approach Backfill.

RESURFACING: Complete resurfacing operations within two working days after completion of the scarifying, chipping, and flush cleaning activities. Only equipment required for the resurfacing operations will be allowed on the bridge after flush cleaning.

EROSION REPAIR: Repair eroded areas on the berm slopes with roadway fill material compacted to 95% density. Work necessary for the erosion repair at Sta 119+05 and Sta 384+32 is incidental to the contract pay item Reinforced Conc Slope Paving. Work necessary for the erosion repair at Sta 386+96 is paid for under the contract pay item Force Account Work.

PAINT REPAIR: Paint the existing bridge railing remaining in place at Sta 119+05 with epoxy-mastic paint.

LEAD PAINT REMOVAL: The estimated quantity of controls for lead paint removal is 5% of the area of existing bridge railing remaining in place at Sta 119+05.

BRIDGE OFFICE NOTIFICATION: The engineer will notify the State Bridge Engineer in writing within 14 calendar days after work has been completed at each structure.

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Sheets

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reservation

and

Rehabilitation

REFERENCES

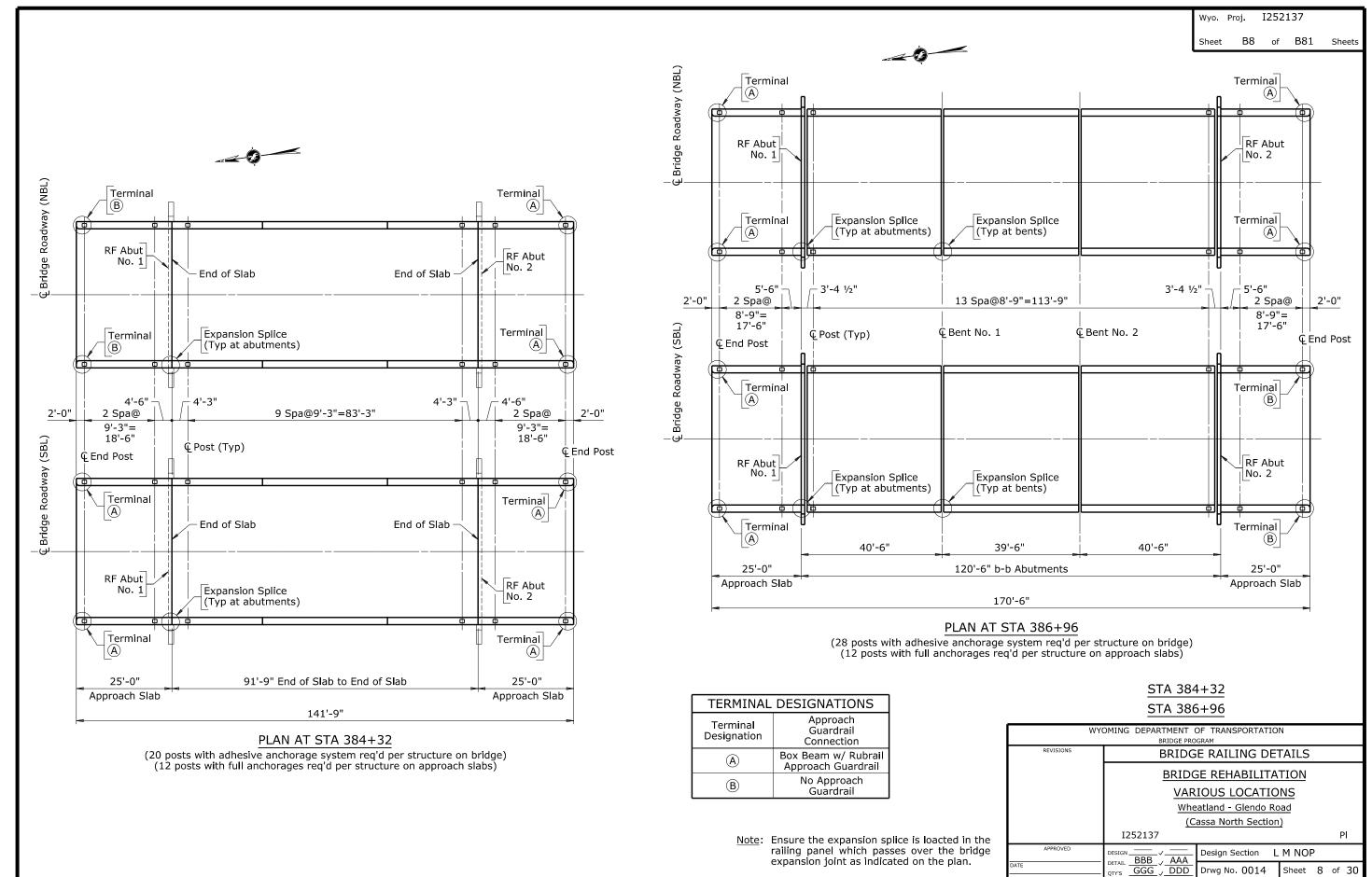
Special Provisio		Dated
SP-500R	Bridge Concrete Repair	6-15-04
Supplementary	Specifications:	Dated
SS-100G		1.6.04
CC 100K	for Lead Paint Removal	
SS-100K	Adjustment for Structural Steel	Rev. 10-1-09
SS-500G	Structural Concrete with Quality Control and Quality Acceptance	Rev 1-1-09
	control and Quality Acceptance	NCV. 1 1 05
WYDOT Plans:		Sheet No.
Sta 119+05		
Bridge	Drwg No. 4526	2 & 4-8 of 8
Bridge	Drwg No. 5522	2 of 4
Sta 384+32		
Bridge	Drwg No. 3378	1 of 1
Bridge	Drwg No. S-546	1 & 2 of 2
Sta 386+96		
	Drwg No. 3379	
Bridge	Drwg No. S-538	1 of 1
	Drwg No. 5255	1 & 2 of 2
All Location		
Bridge	Drwg No. 6169	4 & 6 of 6
	Drwg No. 4173	
Bridge	Drwg No. 3518	1 & 2 of 2

WYOMING DEPARTMENT OF TRANSPORTATION					
	BRIDGE PRO	GRAM			
REVISIONS	GENERAL NOTES				
	BRIDGE REHABILITATION				
	<u>VARIOUS LOCATIONS</u>				
	<u>Whe</u>	atland - Glendo Ro	<u>oad</u>		
	<u>(C</u>	assa North Sectior	<u>1)</u>		
	I252137 Pl				
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DATE	QTY'S	Drwg No. 0014	Sheet 2	of 30	

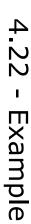
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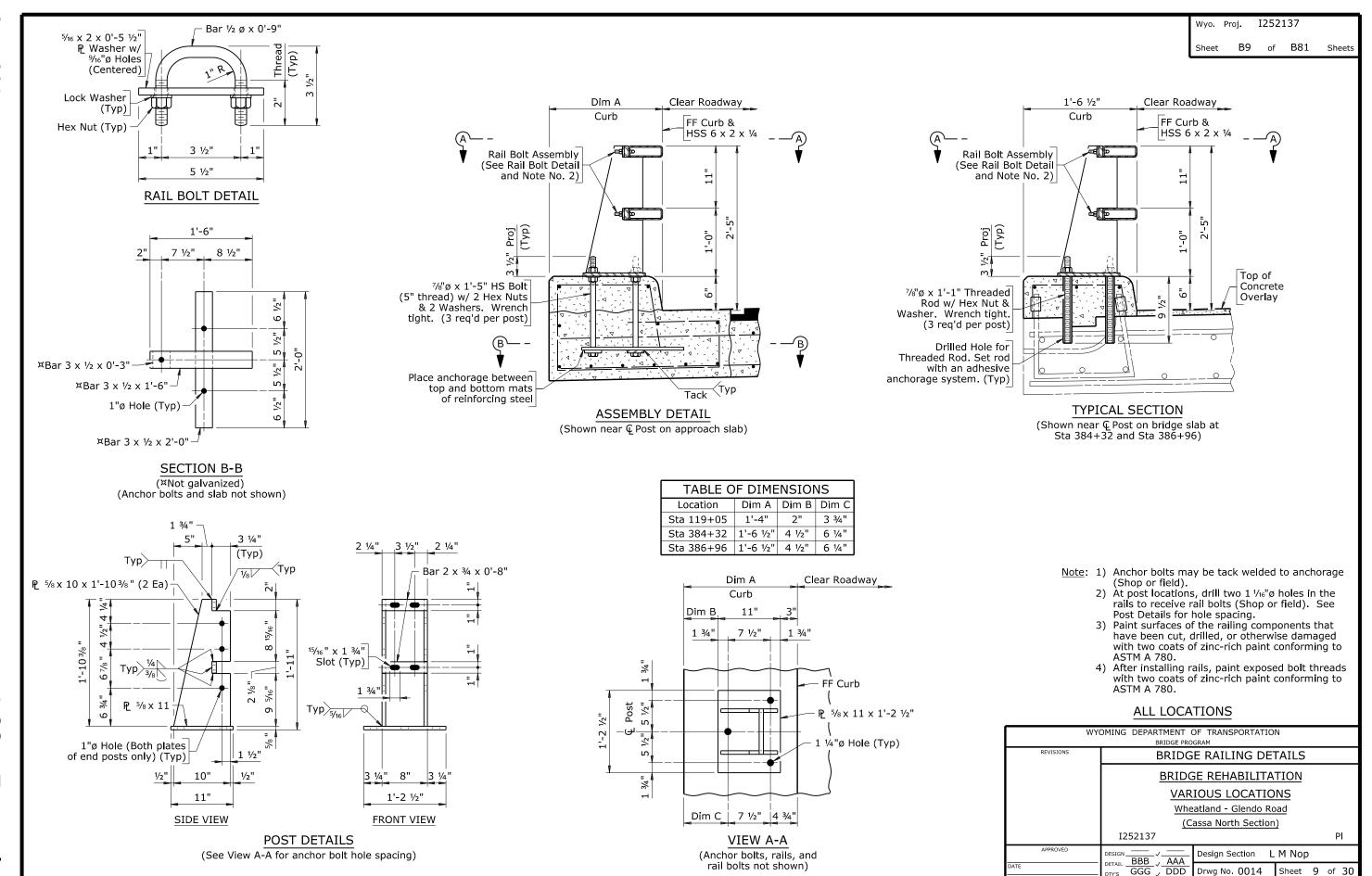
Example

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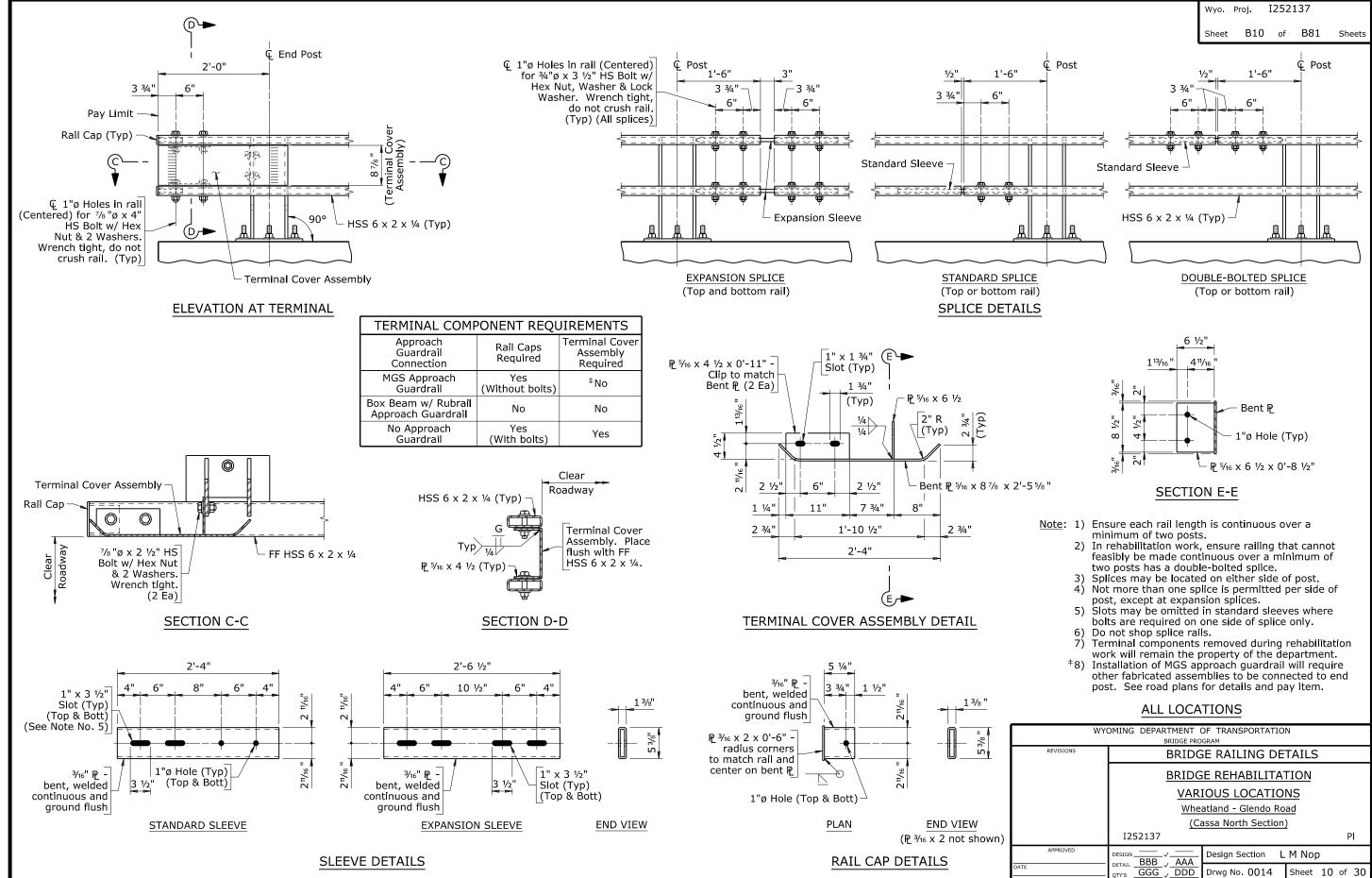


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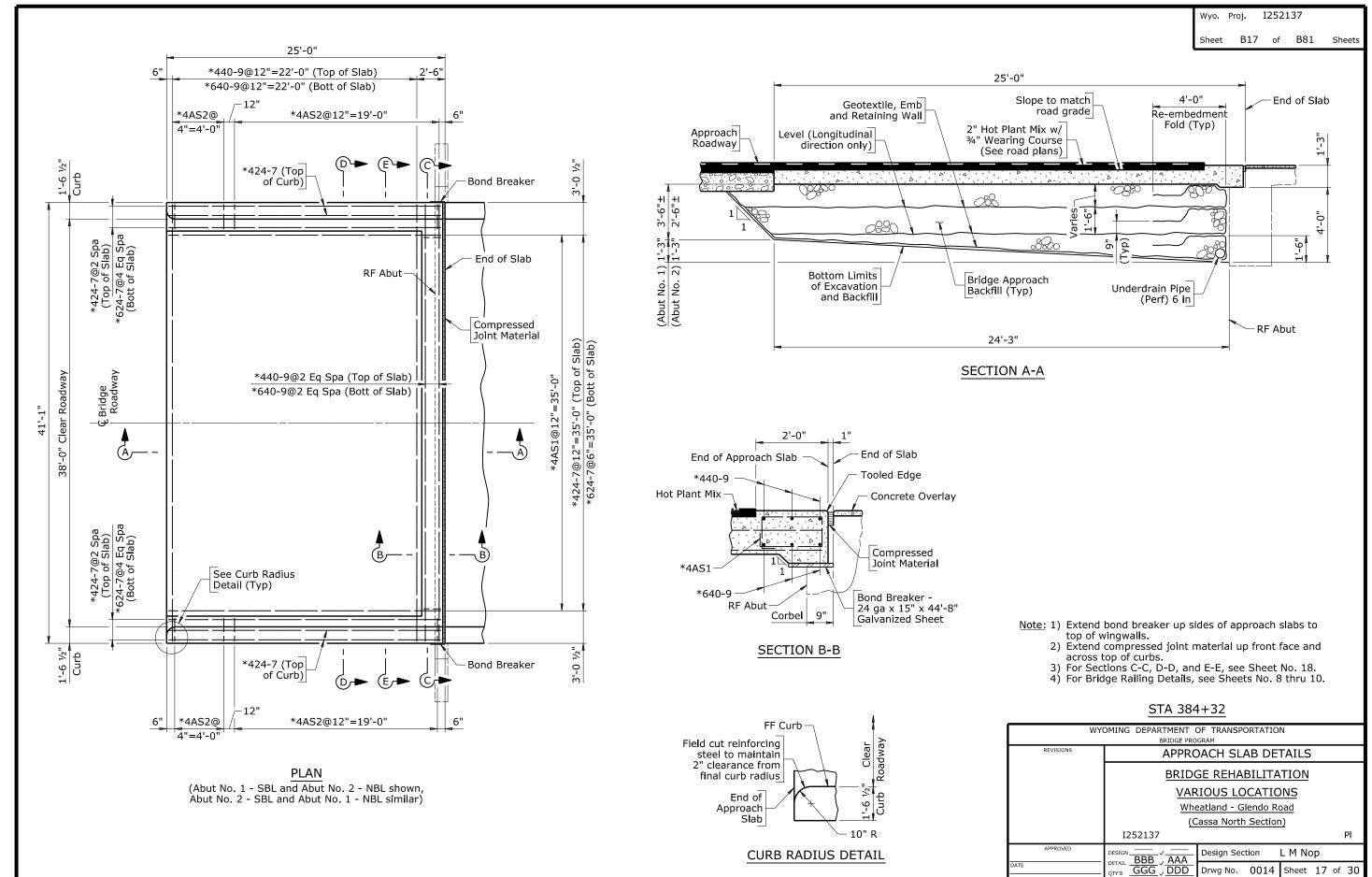


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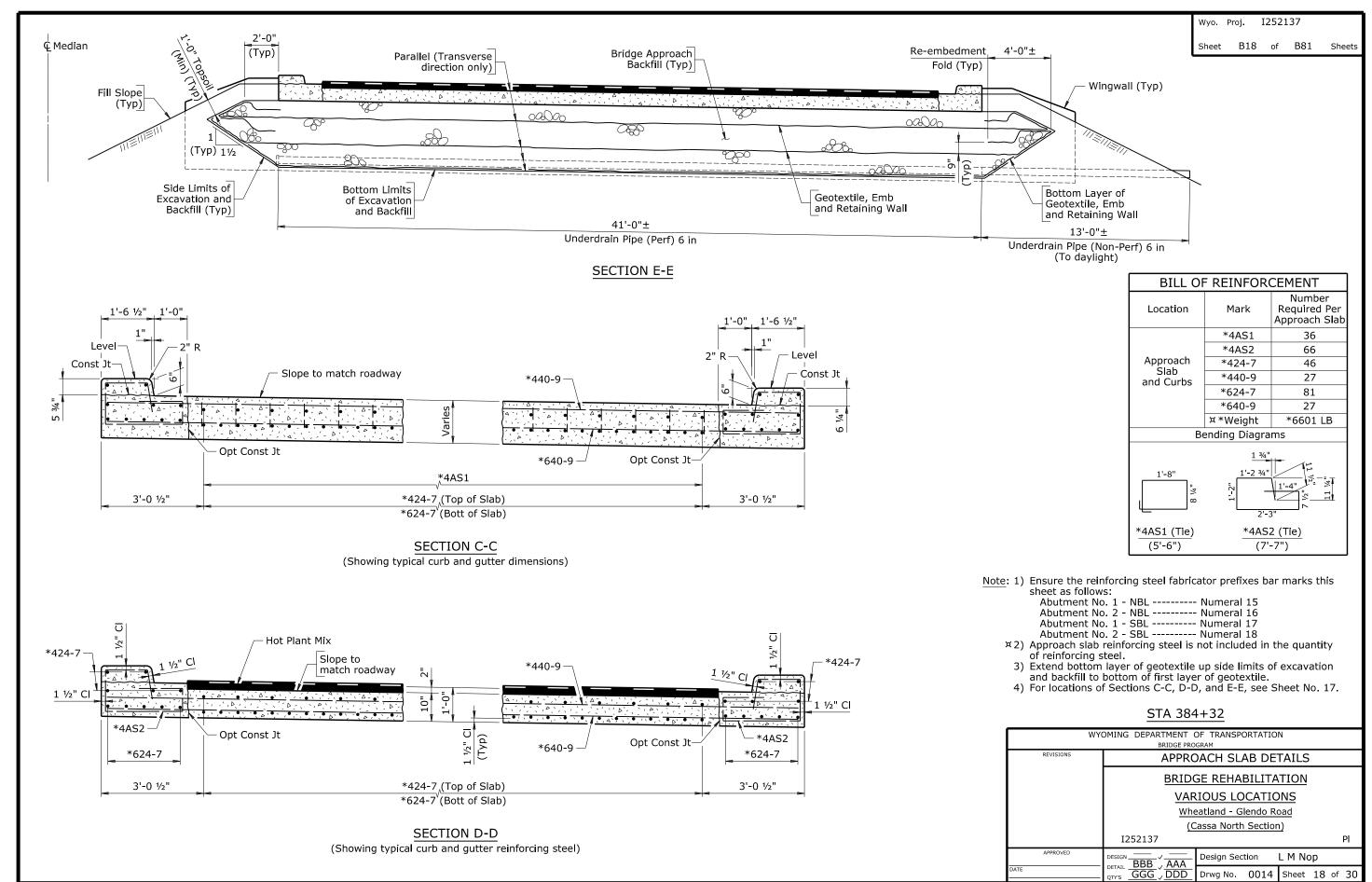
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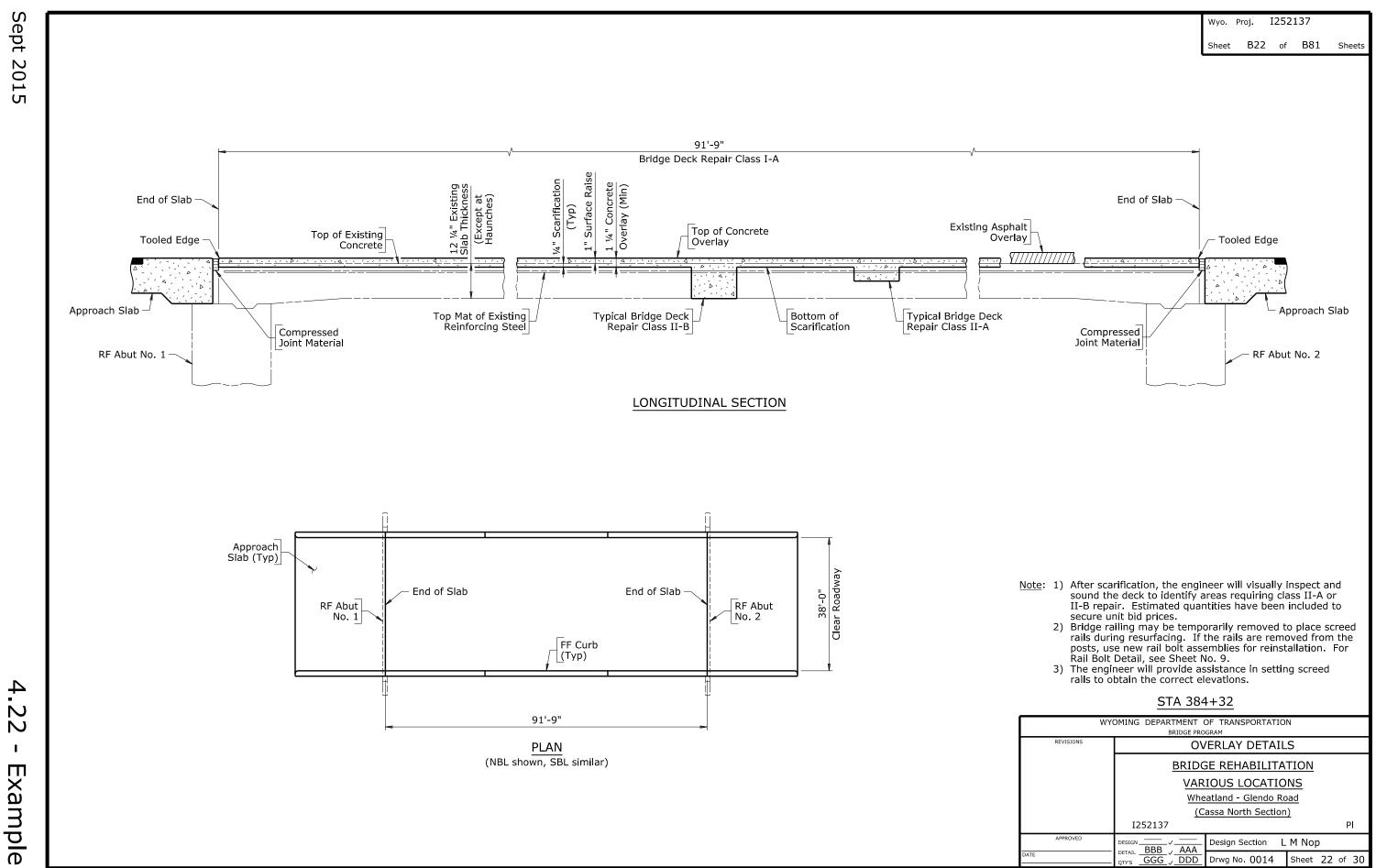
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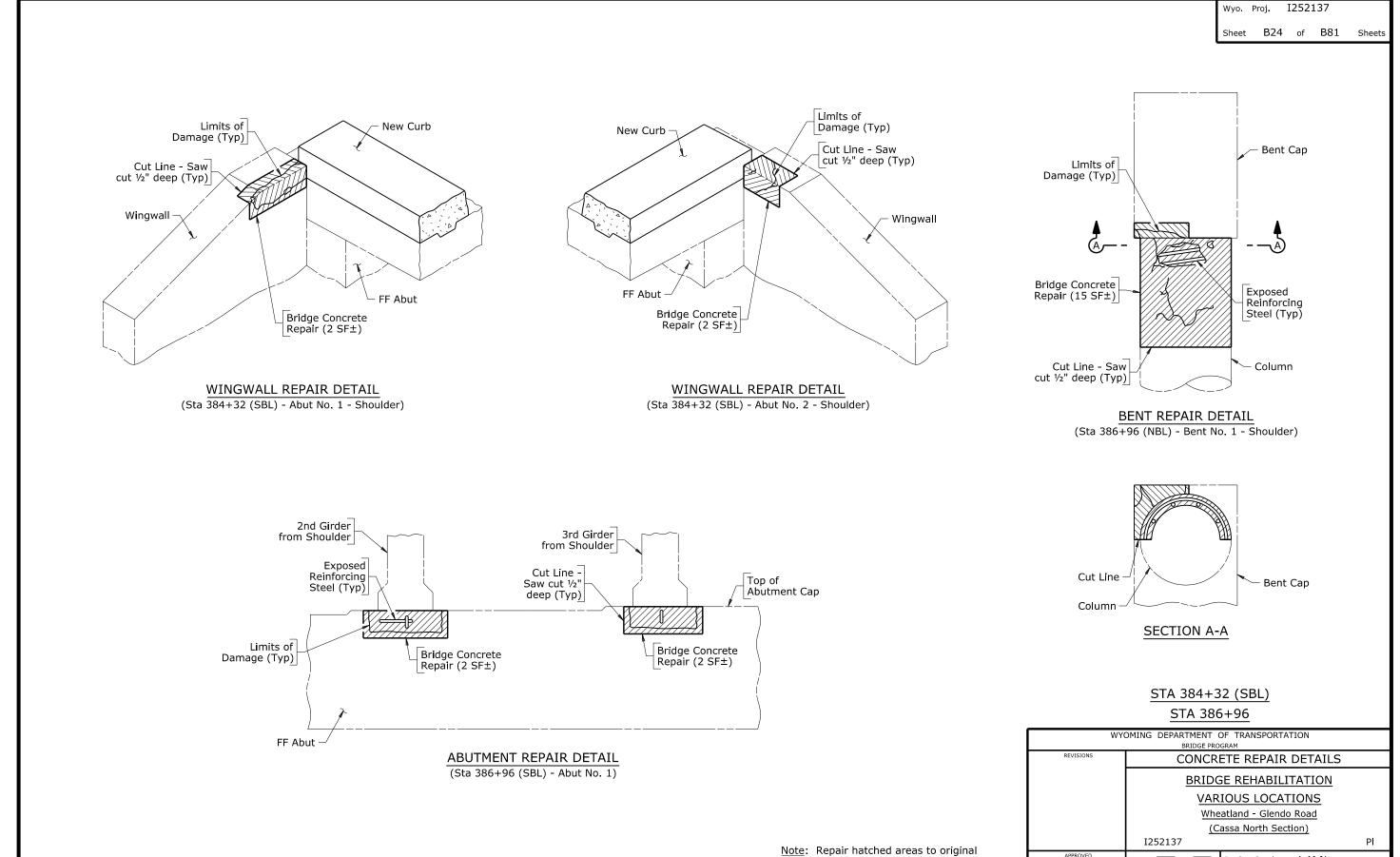
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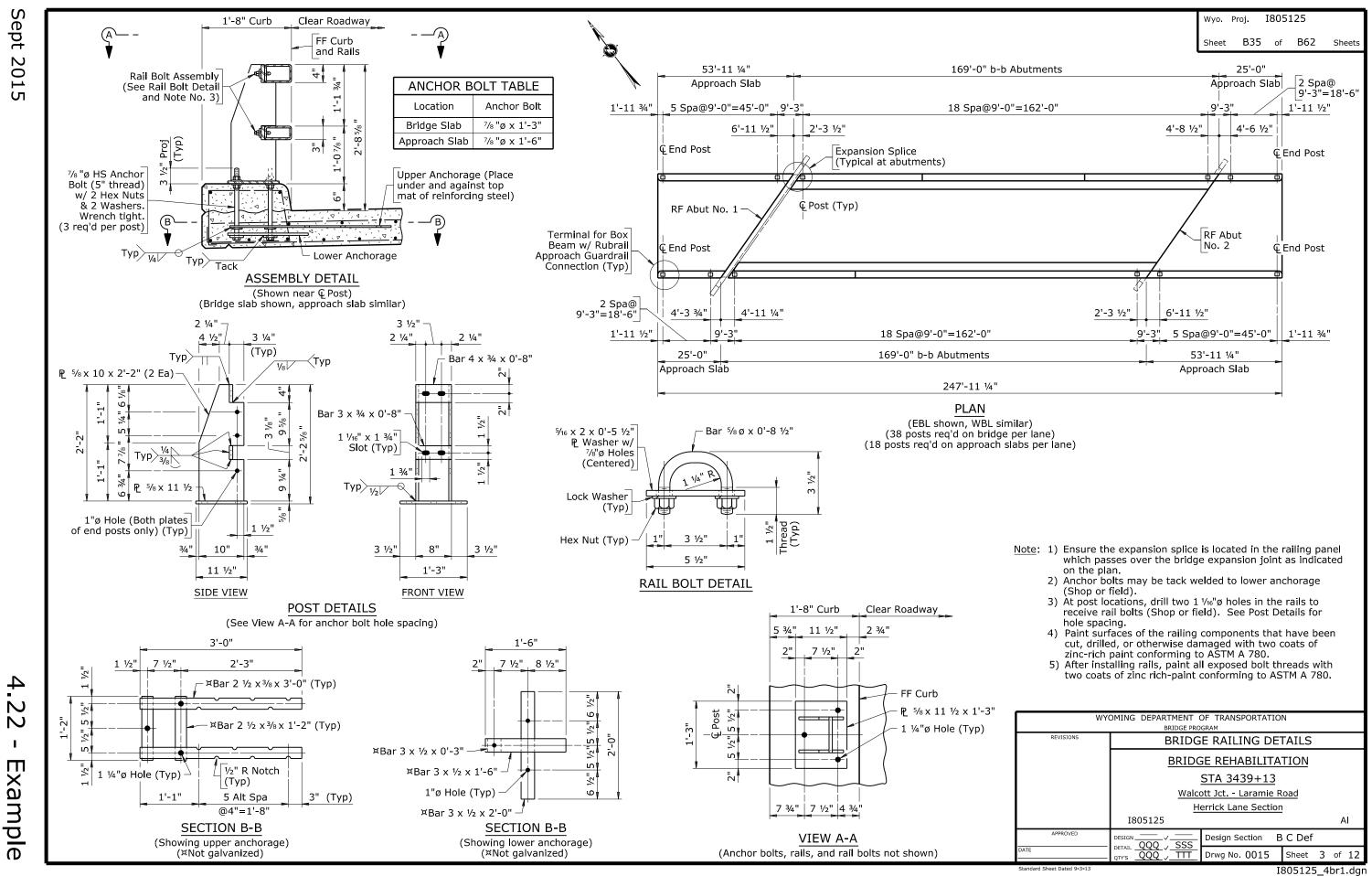
Drwg No. 0014 Sheet 24 of 30

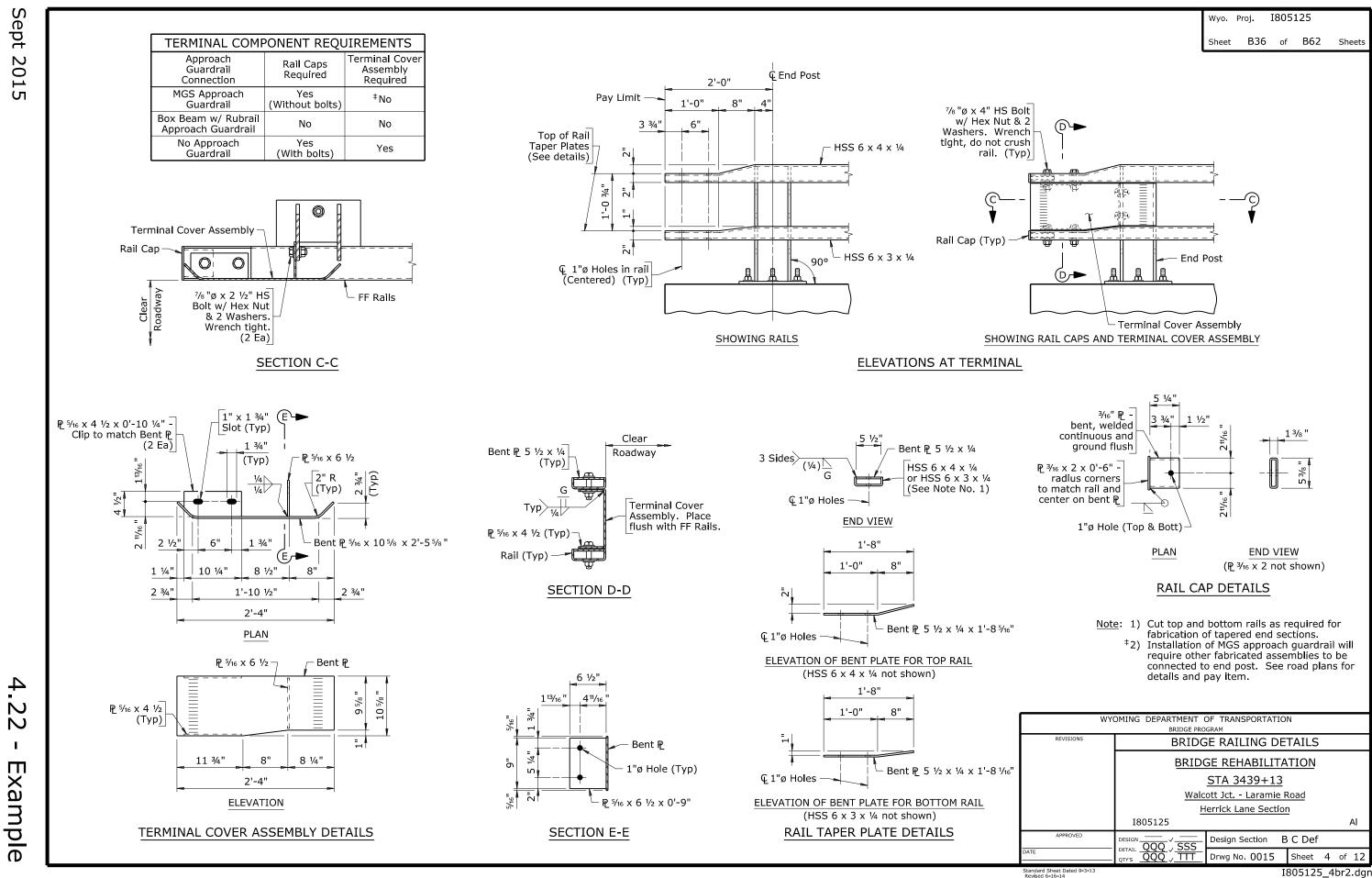
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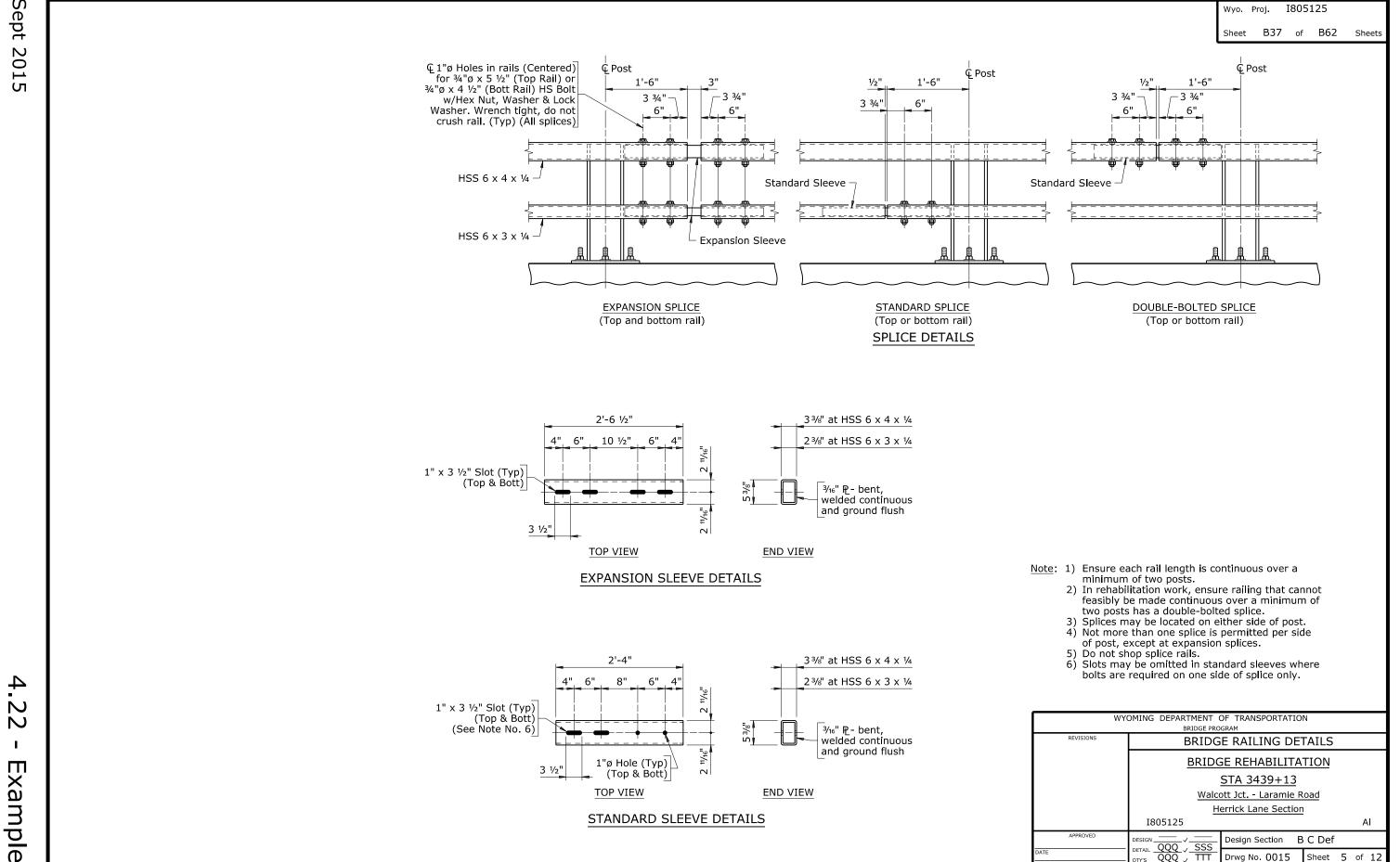
DETAIL BBB AAA
OTY'S GGG DDD



lines of construction.



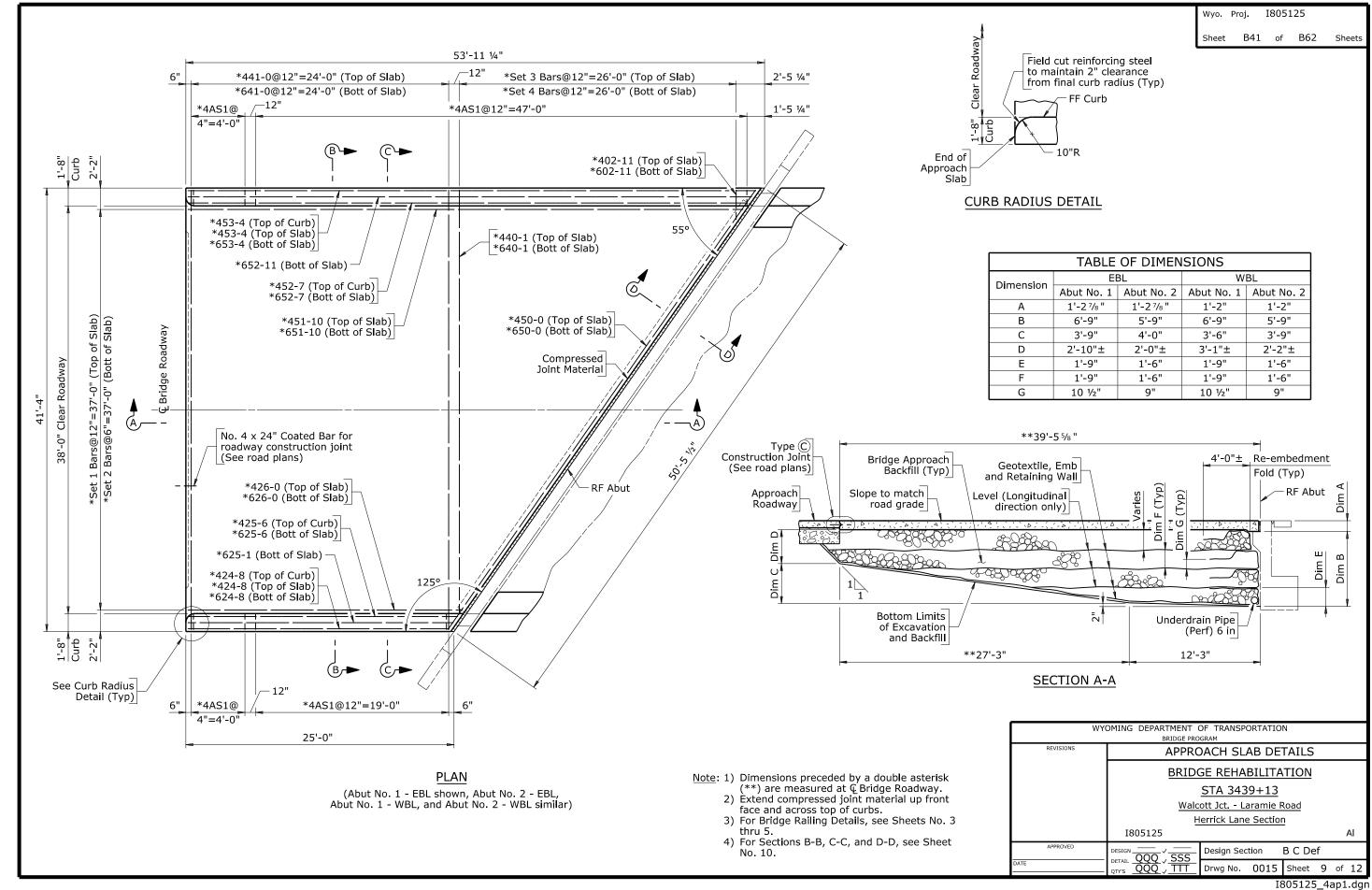


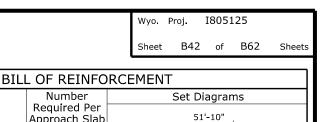


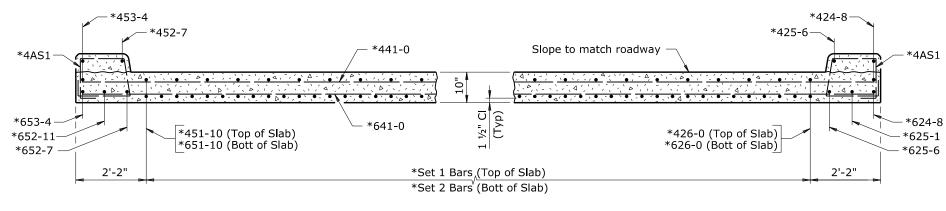
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Sheet 5 of 12

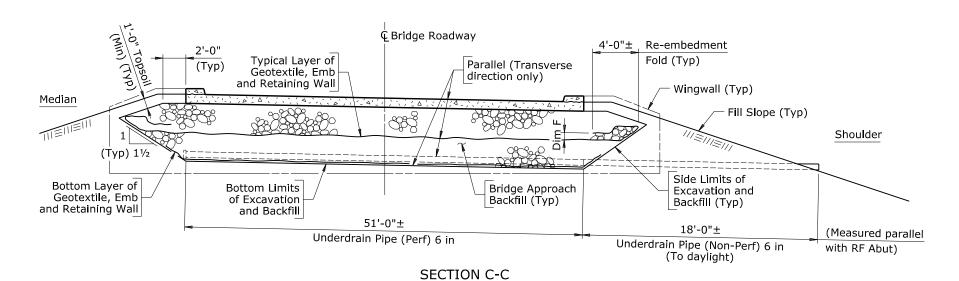
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SECTION B-B



BILL OF REINFORCEMENT			
Location	Mark	Number Required Per Approach Slab	Set Diagrams
	*4AS1	94	Line
	*424-8	2	36 Bars
	*425-6	1	26'-0" ′
	*441-0	25	*Set 1 Bars (No. 4 Bars)
	*450-0	1	(Avg length=38'-11")
	*452-7	1	E41.40II
	*453-4	2	<u>φ</u> = 51'-10" / φ
	*Set 1 Bars	1	Bars
	*Set 3 Bars	1	<u>G</u>
Approach	*624-8	1	26'-0" ′
Slab and Curbs	*625-1	1	*Set 2 Bars (No. 6 Bars)
00.25	*625-6	1	(Avg length=38'-11")
	*641-0	25	.27 Bars.
	*650-0	1	27 5415
	*652-7	1	1 1
	*652-11	1	40'-1"
	*653-4	1	94 356
	*Set 2 Bars	1	Cut Line
	*Set 4 Bars	1	*Set 3 Bars (No. 4 Bars)
	‡*Weight	*9611 LB	(Avg length=21'-6")
Bending Diagram			
1'-4" 1'-6 1/4" *40.51 (Tio)			*Set 4 Bars (No. 6 Bars)
*4AS1 (Tie) (5'-10")			(Avg length=21'-6")

Note: 1) Ensure the reinforcing steel fabricator prefixes approach slab bar marks as follows:

Abutment No. 1 - EBL ----- Numeral 3
Abutment No. 2 - EBL ----- Numeral 4
Abutment No. 1 - WBL ---- Numeral 5
Abutment No. 2 - WBL ---- Numeral 6

- ‡2) Approach slab reinforcing steel is not included in the quantity of reinforcing steel.
- 3) Extend bottom layer of geotextile up side limits of excavation and backfill to bottom of first layer of geotextile.
- 4) For Table of Dimensions and locations of Sections B-B, C-C, and D-D, see Sheet No. 9.





Bond Breaker - 24 ga x15"x46'-8" Galvanized Sheet

*650-0

9"

Corbel

SECTION D-D

Tooled Edge

End of Approach Slab

*450-0

Example

1'-8"

Const Jt

TYPICAL CURB SECTION

(Median) (Shoulder)

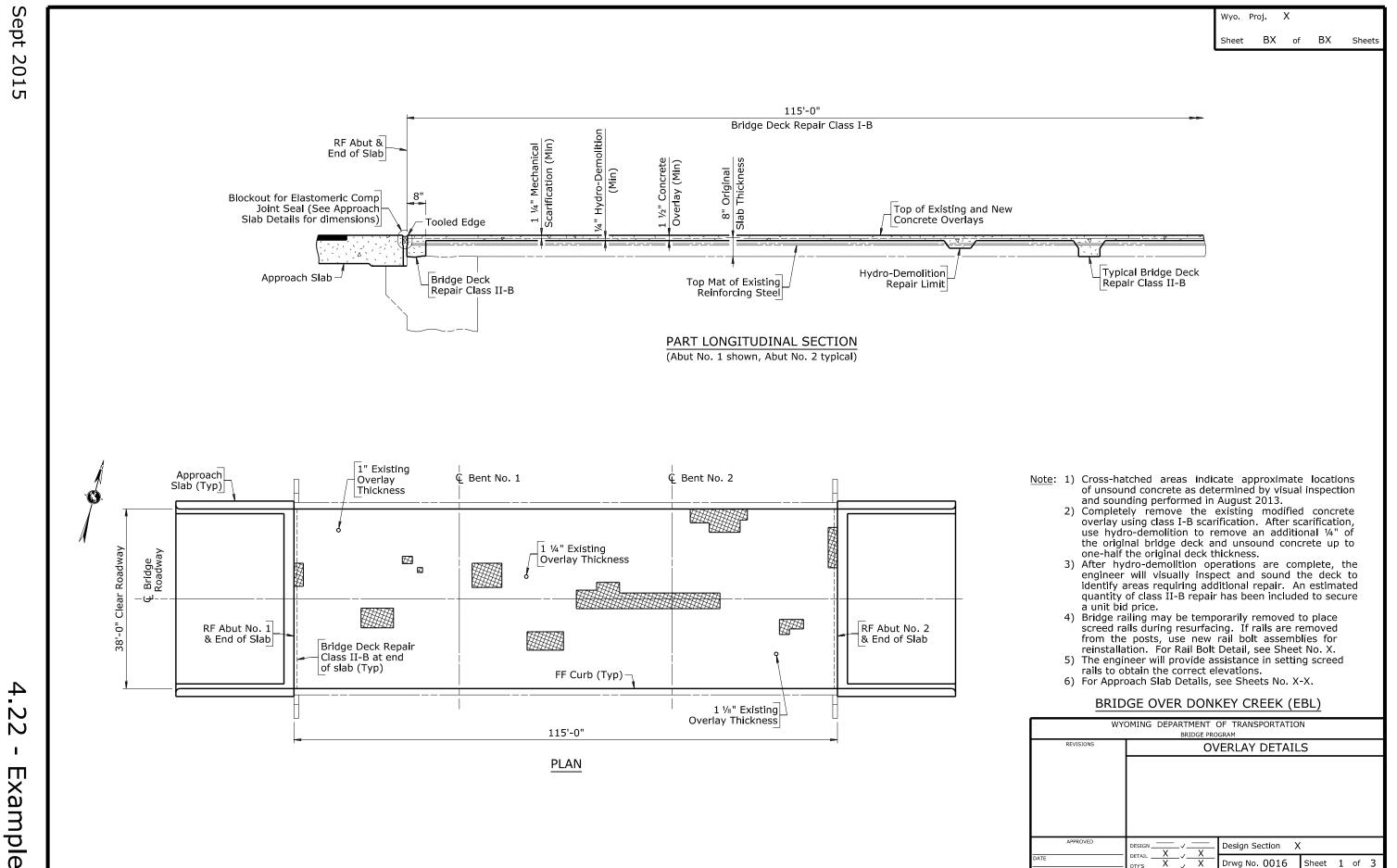
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Level

1 ½" Cl

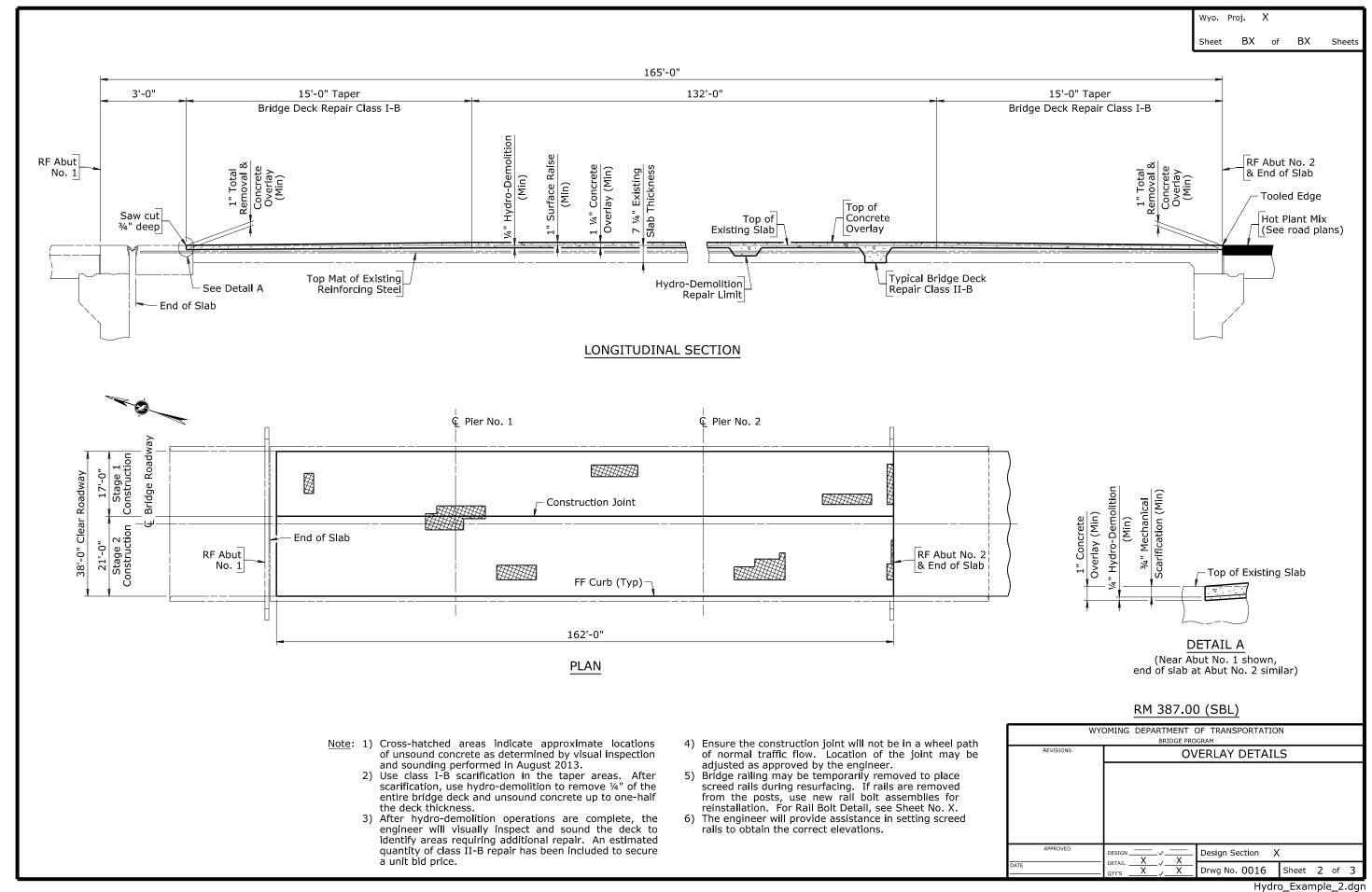
*4AS1

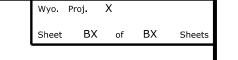
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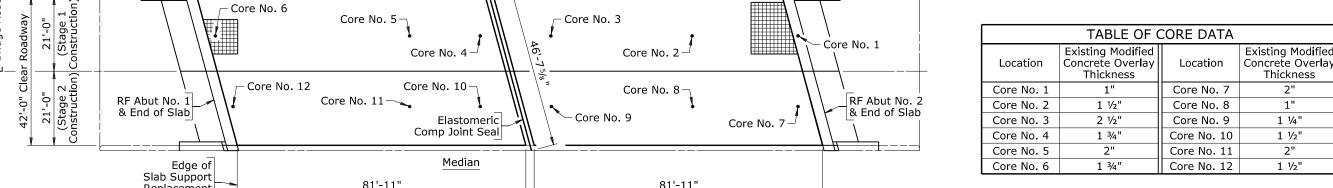


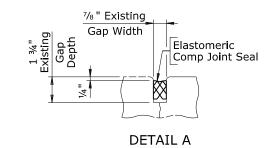
Hydro_Example_1.dgn

Drwg No. 0016 | Sheet 1 of 3









Note: 1) Completely remove the existing modified concrete overlay using class I-B scarification. After scarification, use hydro-demolition to remove an additional 14" of the original bridge deck and unsound concrete up to one-half the original deck thickness.

2) After hydro-demolition operations are complete, the engineer will visually inspect and sound the deck to identify areas requiring additional repair. An estimated quantity of class II-B repair has been included to secure a unit bid price.

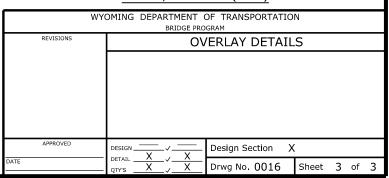
3) Cross-hatched areas indicate known locations requiring class II-B repair as determined by visual inspection and sounding performed in September 2014.
4) Bridge railing may be temporarily removed to place

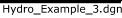
screed rails during resurfacing. If rails are removed from the posts, use new rail bolt assemblies for reinstallation. For Rail Bolt Detail, see Sheet No. X.

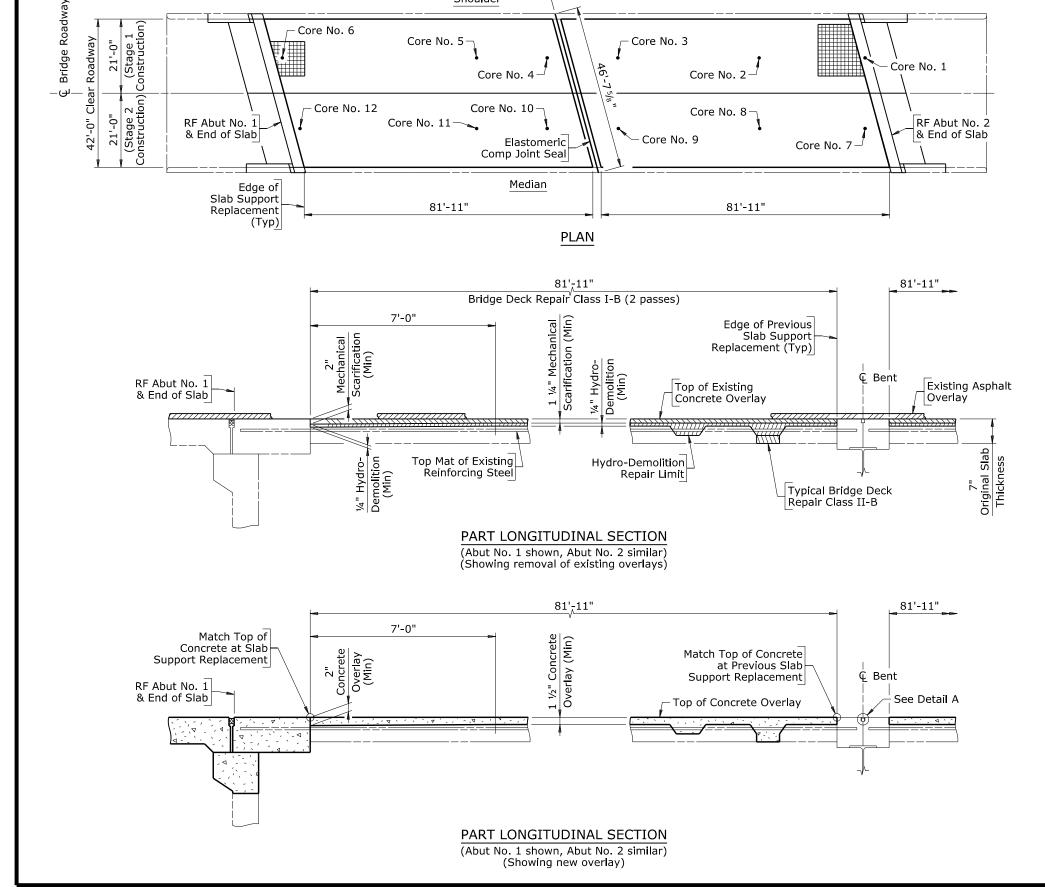
5) The engineer will provide assistance in setting screed rails to obtain the correct elevations.

6) Extend elastomeric compression joint seal at bent up front face and across top of curbs. The exposed curb height is 6".

ML25I, RM 8.84 (NBL)







& Bent

Shoulder