
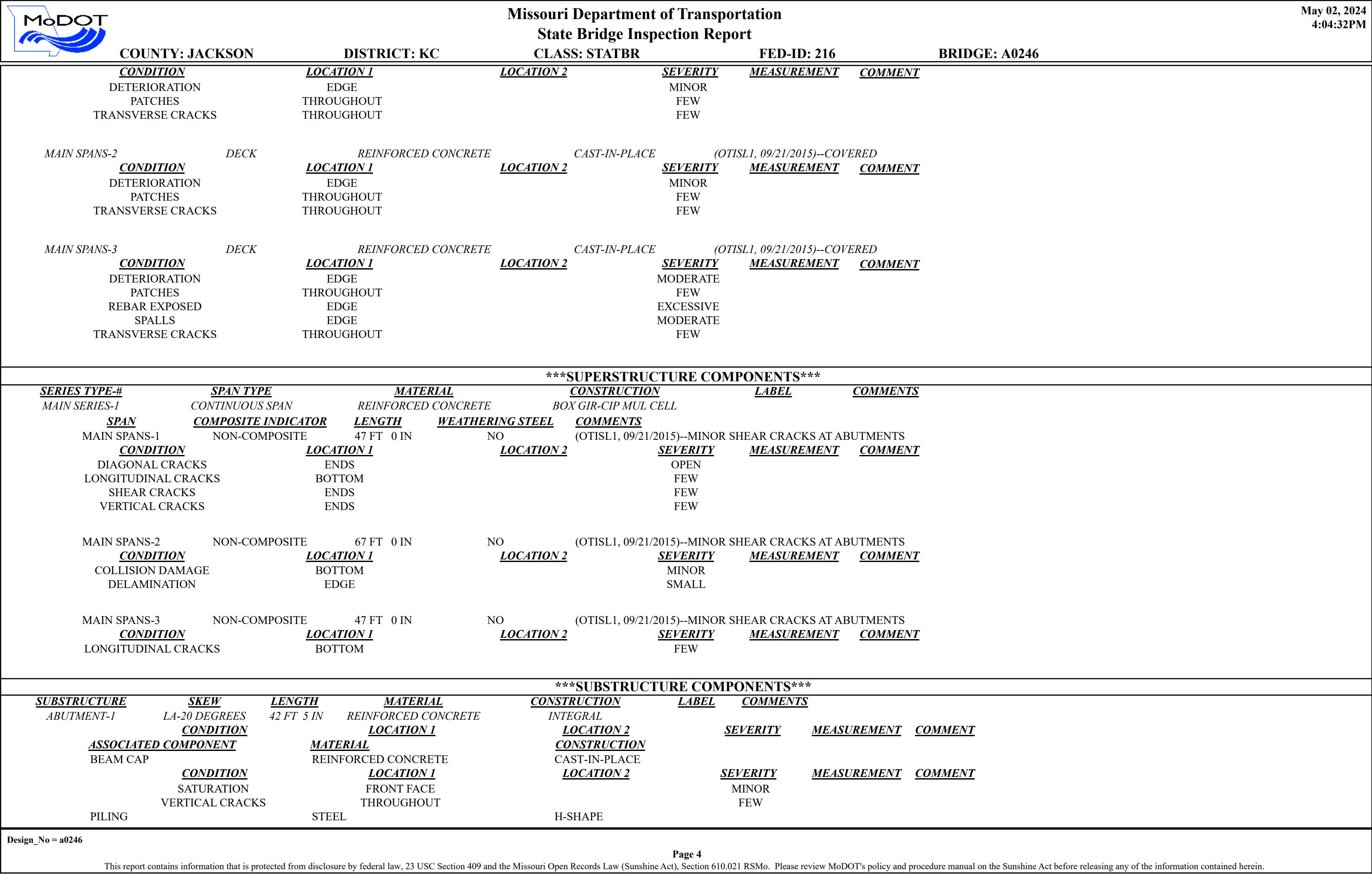
		Missouri Department of Transportation			May 02, 2024	
		State Bridge Inspection Report			4:04:32PM	
COUNTY: JACKSON		DISTRICT: KC		CLASS: STATBR	FED-ID: 216	BRIDGE: A0246
STRUCTURE POSTING						
APPROVED CATEGORY: S-1		NO POSTING REQUIRED				
Ton 1:		Ton 2:		Ton 3:		
COMMENTS:						
FIELD CATEGORY: S-1		NO POSTING REQUIRED				
Ton 1:		Ton 2:		Ton 3:		PROBLEM:
COMMENTS:		PROBLEM DIRECTION:				
GENERAL COMMENTS/MAJOR RATED ITEMS						
GENERAL COMMENTS: (BOWDEJ1, 10/07/2008)--(47'-67'-47') CONT CONC BOX GDR SPANS						
[ITEM 58] DECK: 5-FAIR CONDITION		COMMENTS: (OTISL1, 09/22/2021)--PATCHES & GENERAL EDGE DETERIORATION				
RATING : 05/18/2001						
[ITEM 59] SUPER: 5-FAIR CONDITION		COMMENTS: (RACKEM, 10/04/2011)--DECK CONTROLS RATING.				
RATING : 05/18/2001						
[ITEM 60] SUB: 7-GOOD CONDITION		COMMENTS: (OTISL1, 09/22/2021)--MINOR CRACKING WITH EFFLORENSE				
RATING : 09/28/2017						
[ITEM 61] BANK/CHANNEL: N-NOT APPLIC NO WATRWAY		COMMENTS:				
RATING : 05/18/2001						
[ITEM 113] SCOUR: N-NOT APPLIC NOT WATERW		COMMENTS:				
RATING : 05/18/2001						
EVALUATION TYPE :						
[ITEM 71] WATERWAY ADEQUACY: NOT APPLICABLE		COMMENTS:				
RATING : 05/18/2001						
[ITEM 72] APPRRDWY ALIGNMENT: 8-VERYGOOD		COMMENTS:				
RATING : 05/18/2001						
RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS						
[ITEM 36A] BRIDGE RAILING RATING: DOESNT MEET CURRNT STND-0		RATING : 01/07/2014		COMMENTS:		
<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>			
REINFORCED CONCRETE	PARAPET	RIGHT				
REINFORCED CONCRETE	CURB	RIGHT				
REINFORCED CONCRETE	SAFETY BARRIER CURB	LEFT				
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>	
VERTICAL CRACKS		THROUGHOUT		FEW		
REINFORCED CONCRETE	BLOCKOUT	RIGHT				
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>	
VERTICAL CRACKS		THROUGHOUT		FEW		
[ITEM 36B] TRANSITION RAILING RATING: MEETS CURRENT STANDARDS-1		RATING : 02/13/2002		COMMENTS:		

Design_No = a0246

Page 2

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		Missouri Department of Transportation				May 02, 2024	
		State Bridge Inspection Report				4:04:32PM	
COUNTY: JACKSON		DISTRICT: KC		CLASS: STATBR		FED-ID: 216	
				BRIDGE: A0246			
<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>		<u>COMMENTS</u>	
GALVANIZED STEEL		THRIE BEAM TO W-BEAM		BOTH-SOUTH			
GALVANIZED STEEL		THRIE BEAM TO W-BEAM		NORTHEAST			
<i>[ITEM 36C] APPROACH RAILING RATING: MEETS CURRENT STANDARDS-1</i>				<i>RATING : 05/18/2001</i>		<i>COMMENTS:</i>	
<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>		<u>COMMENTS</u>	
GALVANIZED STEEL		W-BEAM		BOTH-SOUTH			
GALVANIZED STEEL		W-BEAM		NORTHEAST			
<i>[ITEM 36D] RAIL END TREATMENT RATING: MEETS CURRENT STANDARDS-1</i>				<i>RATING : 02/13/2002</i>		<i>COMMENTS:</i>	
<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>		<u>COMMENTS</u>	
GALVANIZED STEEL		BREKAWAY SYSTEM		BOTH-SOUTH			
APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below.							
<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>		<u>CONDITION*</u>	
ASPHALT/CONCRETE		BITUMINOUS MAT/SLAB		BOTH		FAIR	
(OTISL1, 10/01/2019)--LEFT LANE IS RAVELING , RIGHT LANE-NEW ASPHALT IN GOOD CONDITION							
DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS							
<u>DECK PROTECTIVE COMPONENTS:</u>							
<u>SERIES TYPE-#</u>		<u>COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>	
MAIN SERIES-1		WEARING SURFACE		ASPHALT		ULTRATHIN BONDED WS	
						<u>THICKNESS</u>	
						1.5 IN	
						<u>YEAR APPLIED</u>	
						<u>MANUFACTURE</u>	
						<u>OVERALL CONDITION</u>	
						POOR	
<u>COMMENT:</u> (OTISL1, 10/01/2019)--LEFT LANE RAVELLING. WITH SOME HOLES RIGHT LANE NEW ASPHALT IN GOOD CONDITION.							
(OTISL1, 09/22/2021)--RIGHT LANE RUTTING & LEAVING FEW PATCHES IN LEFT LANE							
		<u>DECK PROTECTION</u>		<u>NOTAPPLICABLE</u>		<u>NONE</u>	
<u>COMMENT:</u>							
		<u>MEMBRANE</u>		<u>NOTAPPLICABLE</u>		<u>NONE</u>	
<u>COMMENT:</u>							
<u>DRAINAGE COMPONENTS:</u>							
		<u>COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>	
						<u>DIRECTION</u>	
						<u>COMMENTS</u>	
<u>EXPANSION DEVICE COMPONENTS:</u>							
<u>SUB UNIT-#</u>		<u>SUB LABEL</u>		<u>COMPONENT</u>		<u>MATERIAL</u>	
						<u>CONSTRUCTION</u>	
						<u>GAP</u>	
						<u>YEAR APPLIED</u>	
						<u>MANUFACTURE</u>	
						<u>OVERALL CONDITION</u>	
<u>COMMENT:</u>							
<u>BANK/SLOPE PROTECTION COMPONENTS:</u>							
		<u>COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>	
		BANK PROTECTION		PLAIN CONCRETE		PAVEDSLOPE	
						<u>DIRECTION</u>	
						BOTH	
						<u>COMMENTS</u>	
DECK COMPONENTS							
<u>SPAN TYPE-#</u>		<u>COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>	
MAIN SPANS-1		DECK		REINFORCED CONCRETE		CAST-IN-PLACE	
						<u>COMMENTS</u>	
						(OTISL1, 09/21/2015)--COVERED	
Design_No = a0246							
Page 3							
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Missouri Department of Transportation

State Bridge Inspection Report

May 02, 2024
4:04:32PM

COUNTY: JACKSON

DISTRICT: KC

CLASS: STATBR

FED-ID: 216

BRIDGE: A0246

	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	TURNED BACK WINGS		REINFORCED CONCRETE	CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	EFFLOESCENCE		TOP		MODERATE		
	MAP CRACKS		THROUGHOUT		FEW		
BENT-2	LA-20 DEGREES		REINFORCED CONCRETE	MULTIPLE COLUMN			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>			<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
COLUMN			REINFORCED CONCRETE	INTEGRAL CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	MAP CRACKS		THROUGHOUT		FINE		
FOOTING			REINFORCED CONCRETE	PEDESTAL			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BENT-3	LA-20 DEGREES		REINFORCED CONCRETE	MULTIPLE COLUMN			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>			<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
COLUMN			REINFORCED CONCRETE	INTEGRAL CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	MAP CRACKS		THROUGHOUT		FINE		
FOOTING			REINFORCED CONCRETE	PEDESTAL			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ABUTMENT-4	LA-20 DEGREES	42 FT 5 IN	REINFORCED CONCRETE	INTEGRAL			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>			<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
BEAM CAP			REINFORCED CONCRETE	CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
PILING			STEEL	H-SHAPE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
TURNED BACK WINGS			REINFORCED CONCRETE	CAST-IN-PLACE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	MAP CRACKS		THROUGHOUT		FEW		

OVER/UNDER ROUTES CLEARANCE INFORMATION


CLEARANCES OVER DECK


****NOTE:** Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>
----------------------------------	--------------	------------------	-------------	----------------

Design_No = a0246

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		<div>Missouri Department of Transportation</div> <div>State Bridge Inspection Report</div>				<div>May 02, 2024</div> <div>4:04:32PM</div>							
COUNTY: JACKSON		DISTRICT: KC		CLASS: STATBR		FED-ID: 216		BRIDGE: A0246					
<div><div>CLEARANCES UNDER BRIDGE</div><div><div>RECORD #</div><div>ROUTE</div><div>1CST E 12TH ST E</div></div><div><div>VERTICAL CLEARANCE TYPE**</div><div>ACTUAL</div></div></div>		<div><div>**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.</div><div><div># LANES</div><div>2</div><div>VALUE</div><div>13 FT 8 IN</div></div><div><div>DIRECTION OF TRAFFIC</div><div>1-WAY TRAF</div><div>DIRECTION</div><div>DATE</div></div><div><div>RIGHT LATERAL CLEARANCE</div><div>12 FT 7 IN</div><div>COMMENT</div></div><div><div>LEFT LATERAL CLEARANCE</div></div><div><div>UR-ID</div><div>519</div></div></div>											
STRUCTURE PAINT INFORMATION													
CONDITION:		RUST AMOUNT :		STEEL TONS :									
<div><div>ORIGINAL PAINT</div><div>PAINT TYPE :</div><div>NAME :</div><div>PAINT COLOR :</div><div>PAINT YEAR :</div><div>MILS :</div></div>		<div><div>CONTRACT REPAINT</div><div>PAINT TYPE :</div><div>NAME :</div><div>PAINT COLOR :</div><div>PAINT YEAR :</div><div>MILS :</div></div>		<div><div>DEPARTMENT REPAINT</div><div>PAINT TYPE :</div><div>NAME :</div><div>PAINT COLOR :</div><div>PAINT YEAR :</div><div>MILS :</div></div>		<div><div>MANUFACTURE :</div><div>SURFACE PREP :</div></div>							
REQUESTED WORK ITEMS													
GENERAL WORK COMMENTS:													
<div><div>RESPONSIBILITY</div><div>DISTRICT SPECIAL</div></div>		<div><div>LOCATION</div><div>SEE COMMENT</div></div>		<div><div>ITEM</div><div>MISCELLANEOUS</div></div>		<div><div>CATEGORY</div><div>DECK</div></div>		<div><div>PRIORITY</div><div>2</div></div>		<div><div>DATE</div><div>09/14/2021</div></div>		<div><div>WORK ITEM COMMENT</div><div>(OTISL1, 09/22/2021)--OVERLAY DECK, IT IS FAILING</div></div>	
UTILITY ATTACHMENTS													
<div><div>UTILITY</div><div>LIGHTING</div></div>		<div><div>OWNER</div></div>		<div><div>METHOD</div><div>POLE</div></div>		<div><div>MEASUREMENT TYPE</div></div>		<div><div>VALUE</div></div>		<div><div>NUMBER</div><div>1</div></div>		<div><div>UTILITY ATTACHMENT COMMENT</div></div>	
PROGRAM NOTES INFORMATION													
<div><div>YEAR</div></div>		<div><div>PROJECT #</div></div>		<div><div>MONTH LET</div></div>		<div><div>YEAR LET</div></div>		<div><div>ITEMS</div></div>		<div><div>COMMENT</div></div>			
Design_No = a0246													
<div>Page 6</div> <div>This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.</div>													

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COUNTY: JACKSON			DISTRICT: KC		CLASS: STATBR		FED-ID: 216		BRIDGE: A0246																																											
COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS						***ADVANCED SIGN INFORMATION***																																														
<div>NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.</div> <table><tr><td><u>Rated Item</u></td><td><u>Rating</u></td><td><u>Rating Date</u></td></tr><tr><td>[Item 67] Structure Evaluation Rating:</td><td>5-BETTER THAN MINIMUM</td><td>3/20/2002</td></tr><tr><td>[Item 68] Deck Geometry Rating:</td><td>5-BETTER THAN MINIMUM</td><td>3/14/2002</td></tr><tr><td>[Item 69] Underclearance:</td><td>3-BASICALLY INTOL CORRECT</td><td>3/21/2003</td></tr><tr><td>Sufficiency Rating:</td><td>76.7%</td><td>2/26/2024</td></tr><tr><td>Deficiency:</td><td>FUNCTIONAL</td><td>3/21/2003</td></tr><tr><td>Funding Eligibility:</td><td>PARTIAL</td><td>----</td></tr><tr><td>Estimated New Structure Length:</td><td>197 FT.</td><td>----</td></tr><tr><td>Estimated Structure Cost:</td><td>\$817,022</td><td>----</td></tr><tr><td>Estimated Total Project Cost:</td><td>\$1,225,533</td><td>----</td></tr><tr><td>Year of Cost Estimate:</td><td>2024</td><td>----</td></tr></table> <div>NOTE: The above structure length and cost estimates are computer generated using algorithms in the TMS system. These algorithms are generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.</div>						<u>Rated Item</u>	<u>Rating</u>	<u>Rating Date</u>	[Item 67] Structure Evaluation Rating:	5-BETTER THAN MINIMUM	3/20/2002	[Item 68] Deck Geometry Rating:	5-BETTER THAN MINIMUM	3/14/2002	[Item 69] Underclearance:	3-BASICALLY INTOL CORRECT	3/21/2003	Sufficiency Rating:	76.7%	2/26/2024	Deficiency:	FUNCTIONAL	3/21/2003	Funding Eligibility:	PARTIAL	----	Estimated New Structure Length:	197 FT.	----	Estimated Structure Cost:	\$817,022	----	Estimated Total Project Cost:	\$1,225,533	----	Year of Cost Estimate:	2024	----	<table><tr><td>SIGN #</td><td>SIGN TYPE</td><td>PROBLEM</td><td>PROBLEM DIRECTION</td></tr><tr><td>1</td><td></td><td></td><td></td></tr></table>						SIGN #	SIGN TYPE	PROBLEM	PROBLEM DIRECTION	1			
<u>Rated Item</u>	<u>Rating</u>	<u>Rating Date</u>																																																		
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NOTES:																																																				

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.			29	
DIST. NO.	COUNTY			ROUTE	SEC.
4					



Note:

All loose, shelly or disintegrated rock shall be removed and the pedestal piles placed on hard, solid, undisturbed rock. If soft rock or shale is encountered, the pedestal piles shall be carried at least 18" into and cast against vertical faces of same. Bearing of 21 ton per sq. ft. used in design of pedestal pile on rock.



NOTE: This drawing is not to scale. Follow dimensions

Quantity Notes :

All excavation for bridge will be paid for as Class 1 Excavation for Structures. Sketch below shows limits of excavation for pay purposes.

All concrete and reinforcement above top of pedestal piles are included in superstructure quantities.

Reinforcement in pedestal pile is included in sub-structure quantities.

Pedestal piles shall be constructed and paid for in 60-

conformance with Sect. 16-7 of Supplemental Specifications as "Drilled Caissons."



Notes:

Boring log locations are noted thus: **B-45**
Elevation shown at top of boring is top of ground.

Bench Mark
B.M. #1 - "x" on South Lot, top hydrant, NW corner
12th and Charlotte St. Elev. 888.18.

GENERAL PLAN AND ELEVATION SHEET 1 OF 9

SHEET 1 OF 9

SUBMITTED BY :

R. A. Jergens
REGISTERED PROFESSIONAL ENGINEER
MISSOURI NO. E-233

BRIDGE LANE F OVER 12TH STREET
CROSSTOWN FREEWAY 14th ST. INTERCHANGE
KANSAS CITY, MO.

PROJECT NO. 1-70-1 ⁽³²⁾~~244~~ (RT. 1-70) STA. 32+06.73, 1 ANE C
JACKSON COUNTY 152.97' LT.

JACKSON COUNTY
SUBMITTED BY: Lee E. Beckett DATE 10-11-60 STD C110 R7

APPROVED BY *Ray M. W. Lutton* DATE *10-11-69* A-246

CHIEF ENGINEER

SET FINAL PLANS BROWN LINES

MISSOURI STATE HIGHWAY DEPARTMENT

STATE	FEDERAL PROJECT NO. 8 SEC.	FISCAL YEAR	30
MO.			
DIST. NO.	COUNTY	ROUTE	SEC.
4			

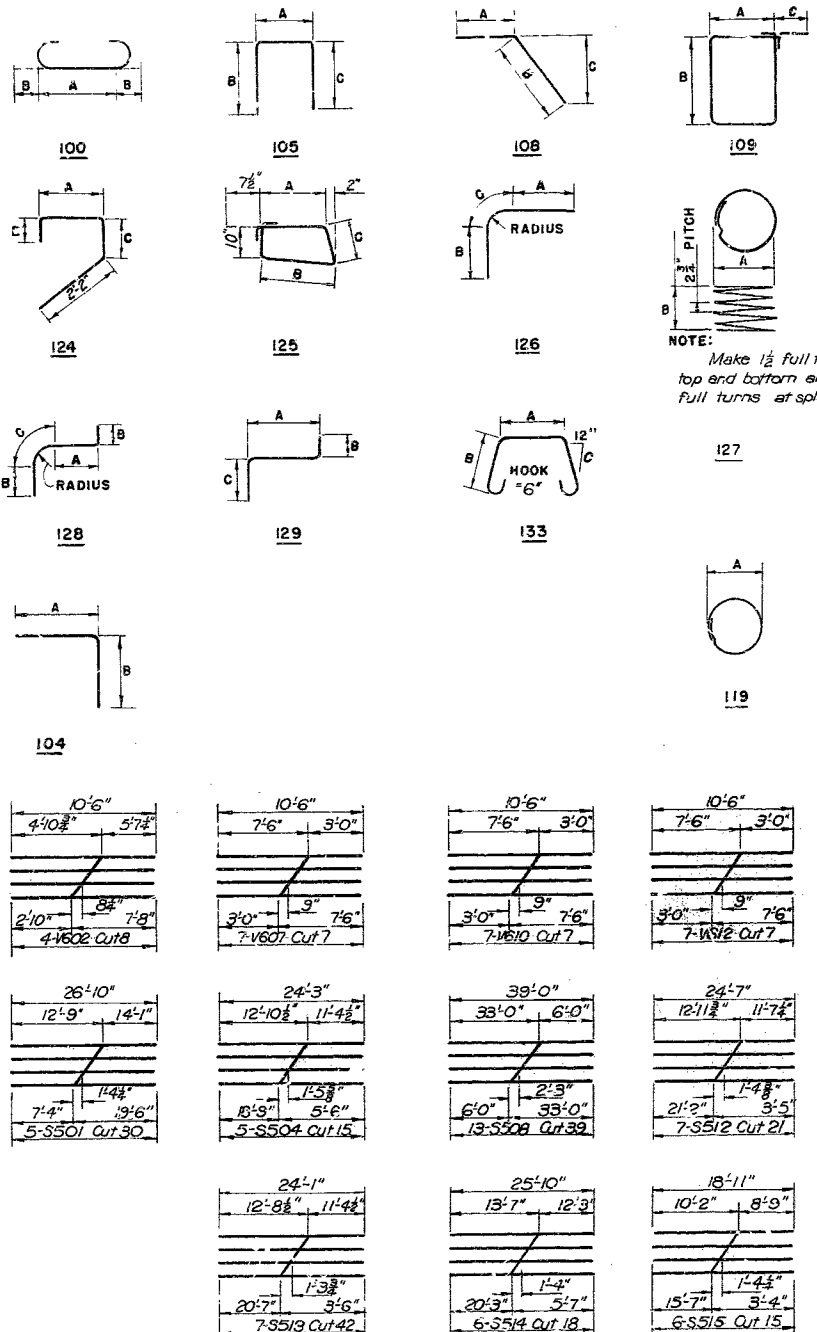
BILL OF REINFORCING STEEL

NO.	MARK	LENGTH	SHAPE	DIMENSIONS		
				A	B	C
		SUBSTRUCTURE				
		PEDESTAL PILES				
52	F423	8'-4"	119	2'-2 1/2"		
52	F433	8'-4"	119	2'-2 1/2"		

NO.	MARK	LENGTH	SHAPE	DIMENSIONS		
				A	B	C
GIRDER						
36	G402	28'-6"	Str.			
8	G403	26'-1"	Str.			
16	G404	26'-3"	Str.			
24	G405	20'-3"	Str.			
8	G406	22'-0"	Str.			
278	G501	5'-9"	129	3'-9"	1'-0"	1'-0"
1088	G502	6'-0"	128	3'-3"	1'-0"	9"
278	G503	3'-9"	105	3'-9"	1'-0"	1'-0"
36	G801	56'-4"	Str.			
24	G1001	27'-0"	Str.			
24	G1002	14'-0"				
24	G1003	19'-6"				
24	G1004	25'-0"				
24	G1005	31'-6"				
24	G1006	60'-0"				
54	G1007	58'-0"				
24	G1008	34'-4"				
24	G1009	20'-6"				
12	G1010	42'-3"				
12	G1011	57'-3"				
12	G1012	26'-3"	Str.			
SLAB						
80	S401	16'-9"	Str.			
80	S402	18'-9"				
80	S403	20'-3"				
40	S404	21'-3"				
66	S405	28'-8"				
70	S406	30'-0"				
20	S407	13'-3"				
20	S408	18'-3"				
20	S409	23'-3"				
10	S410	28'-3"	Str.			
20	S501	26'-10"	Str.			
60	S502	6'-0"				
506	S503	20'-7"				
15	S504	24'-3"				
32	S505	4'-0"				
264	S506	17'-6"				
18	S507	4'-9"				
39	S508	39'-0"				
124(123)	S509	34'-9"				
18	S510	15'-11"				
251	S511	21'-2"				
21	S512	24'-7"				
42	S513	24'-11"				
18	S514	25'-10"				
15	S515	18'-11"	Str.			
12	S601	12'-6"	Str.			
24	S602	42'-7"				
72	S603	35'-6"				
28	S604	30'-6"				
4	S605	13'-0"				
4	S606	44'-0"				
2	S607	45'-8"				
8	S608	30'-3"				
24	S609	5'-0"	Str.			
PARAPET						
32	P401	21'-0"	Str.			
16	P402	5'-8"	Str.			
16	P403	7'-11"	Str.			
16	P404	25'-11"	Str.			
324	P405	6'-4"	109	6 1/2"	2'-0"	7 1/2"
4	P406	4'-7"	133	1'-1"	1'-3"	1'-0"
2	P407	7'-0"	109	1'-0 1/2"	1'-0"	7 1/2"

NO.	MARK	LENGTH	SHAPE	DIMENSIONS		
				A	B	C
WALK						
28	W401	24'-0"	Str			
162	W402	7'-5"	125	1'-11 1/2"	2'-4 1/2"	1'-3"
21	W403	23'-2"	Str			
162	W404	4'-10"	125	3 1/2"	1 1/2"	1'-0"
END BENT						
2	H611	42'-0"	Str.			
6	H612	42'-0"	Str.			
2	H641	42'-0"	Str.			
6	H642	42'-0"	Str.			
4 (3)	H1011	42'-0"	Str.			
4 (3)	H1041	42'-0"	Str.			
29	V611	22'-9"	109	2'-10"	7'-8"	10 1/2"
29	V641	22'-9"	109	2'-10"	7'-8"	10 1/2"
29	V1011	16'-4"	128	7'-10"	6'-0"	2'-6"
29	V1041	16'-4"	128	7'-10"	6'-0"	2'-6"
NORTHWEST WINGWALL						
4	H401	19'-0"	Str.			
3	H1002	21'-11"	Str.			
5	H603	19'-10"	Str.			
1	H604	20'-3"	108	14'-9"	5'-6"	2'-0"
1	H605	13'-6"	Str.			
1	H606	14'-6"	108	9'-0"	5'-6"	2'-0"
1	H607	11'-6"	Str.			
1	H608	12'-6"	103	7'-0"	5'-6"	2'-0"
1	H609	9'-6"	Str.			
1	H610	10'-6"	108	5'-0"	5'-6"	2'-0"
1	H613	4'-6"	Str.			
1	H614	7'-0"	Str.			
2	H615	17'-0"	Str.			
1	H616	7'-6"	Str.			
1	H617	8'-3"	103	2'-9"	3'-6"	2'-0"
6	V601	24'-0"	Str.			
8	V602	10'-6"	Str.			
21	V603	65'-0"	124	2'-0"	10 1/2"	1'-4 1/2"
21	V604	61'-0"	109	6 1/2"	2'-0"	10 1/2"
NORTHEAST WINGWALL						
4	H416	16'-2"	Str.			
5	H618	18'-3"	Str.			
1	H619	14'-3"	108	11'-3"	5'-6"	2'-0"
1	H620	14'-0"	Str.			
1	H621	11'-0"	108	5'-6"	5'-6"	2'-0"
1	H622	10'-0"	Str.			
1	H623	9'-0"	108	3'-6"	5'-6"	2'-0"
1	H624	8'-0"	Str.			
1	H625	7'-0"	108	1'-6"	5'-6"	2'-0"
1	H626	6'-0"	Str.			
1	H627	5'-3"	Str.			
1	H628	4'-0"	Str.			
1	H629	3'-0"	Str.			
2	H630	15'-0"	Str.			
3	H1017	23'-6"	Str.			
6	V625	2'-8"	Str.			
19	V626	6'-0"	109	6 1/2"	2'-0"	10 1/2"
7	V627	10'-6"	Str.			

NO.	MARK	LENGTH	SHAPE	DIMENSIONS		
				A	B	C
SOUTHEAST WINGWALL						
4	H481	16'-7"	Str.			
5	H633	17'-9"	Str.			
1	H634	18'-3"	108	12'-9"	5'-6"	2'-0"
1	H635	12'-6"	Str.			
1	H636	12'-9"	108	7'-3"	5'-6"	2'-0"
1	H637	13'-3"	Str.			
1	H638	10'-9"	108	5'-3"	5'-6"	2'-0"
1	H639	8'-3"	Str.			
1	H640	8'-9"	108	3'-3"	5'-6"	2'-0"
1	H643	4'-3"	Str.			
1	H644	4'-6"	Str.			
2	H645	15'-0"	Str.			
1	H646	6'-3"	Str.			
1	H647	6'-3"	108	1'-3"	5'-6"	2'-0"
3	H1032	23'-0"	Str.			
7	V612	10'-6"	Str.			
6	V613	2'-8"	Str.			
19	V614	6'-10"	109	6 1/2"	2'-0"	10 1/2"
SOUTHWEST WINGWALL						
4	H446	15'-9"	Str.			
5	H648	18'-9"	Str.			
1	H649	16'-9"	108	10'-9"	5'-6"	2'-0"
1	H650	12'-0"	Str.			
1	H651	10'-3"	108	4'-9"	5'-6"	2'-0"
1	H652	10'-0"	Str.			
1	H653	8'-3"	108	2'-9"	5'-6"	2'-0"
1	H654	8'-0"	Str.			
1	H655	6'-3"	108	3"	5'-6"	2'-0"
1	H656	8'-0"	Str.			
1	H657	4'-6"	Str.			
1	H658	3'-3"	Str.			
2	H659	16'-0"	Str.			
3	H1047	23'-5"	Str.			
19	V608	6'-10"	109	6 1/2"	2'-0"	10 1/2"
6	V609	2'-8"	Str.			
7	V610	10'-6"	Str.			
19	V615	6'-5"	124	2'-0"	10 1/2"	1'-4 1/2"



Note: Hooks and bends shall be in accordance with the ACI Manual of Standard Practice for Detailing Reinforced Concrete Structures (A.C.I. - 315-57).

BRIDGE: LANE F OVER 12TH STREET
CROSSTOWN FREEWAY 14th ST. INTERCHANGE
KANSAS CITY, MO.
PROJECT NO. 1-70-1 (29) (RT. 1-70) STA. 32+06.78,
LANE C 152.97' LT.
JACKSON COUNTY
SHEET 2 OF 9
A-246

REINFORCEMENT SCHEDULE

NO CONSTRUCTION CHANGES

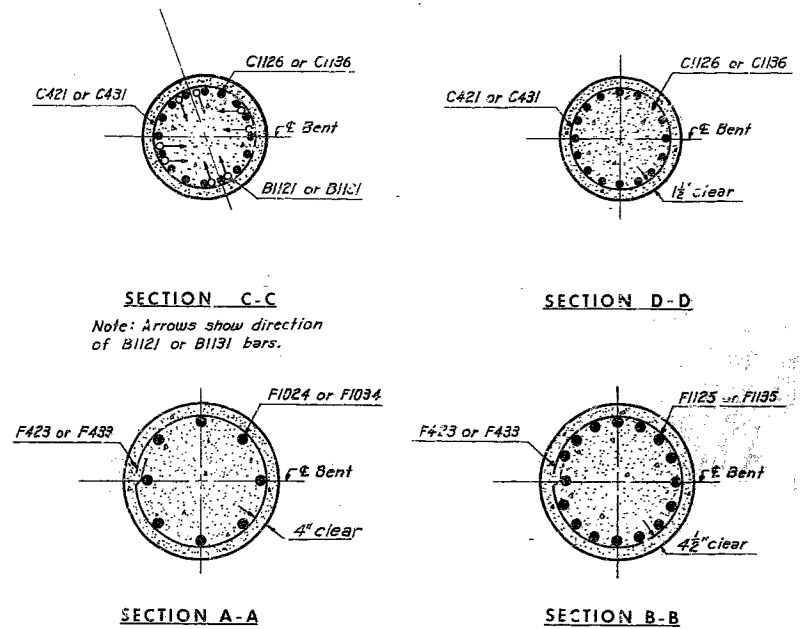
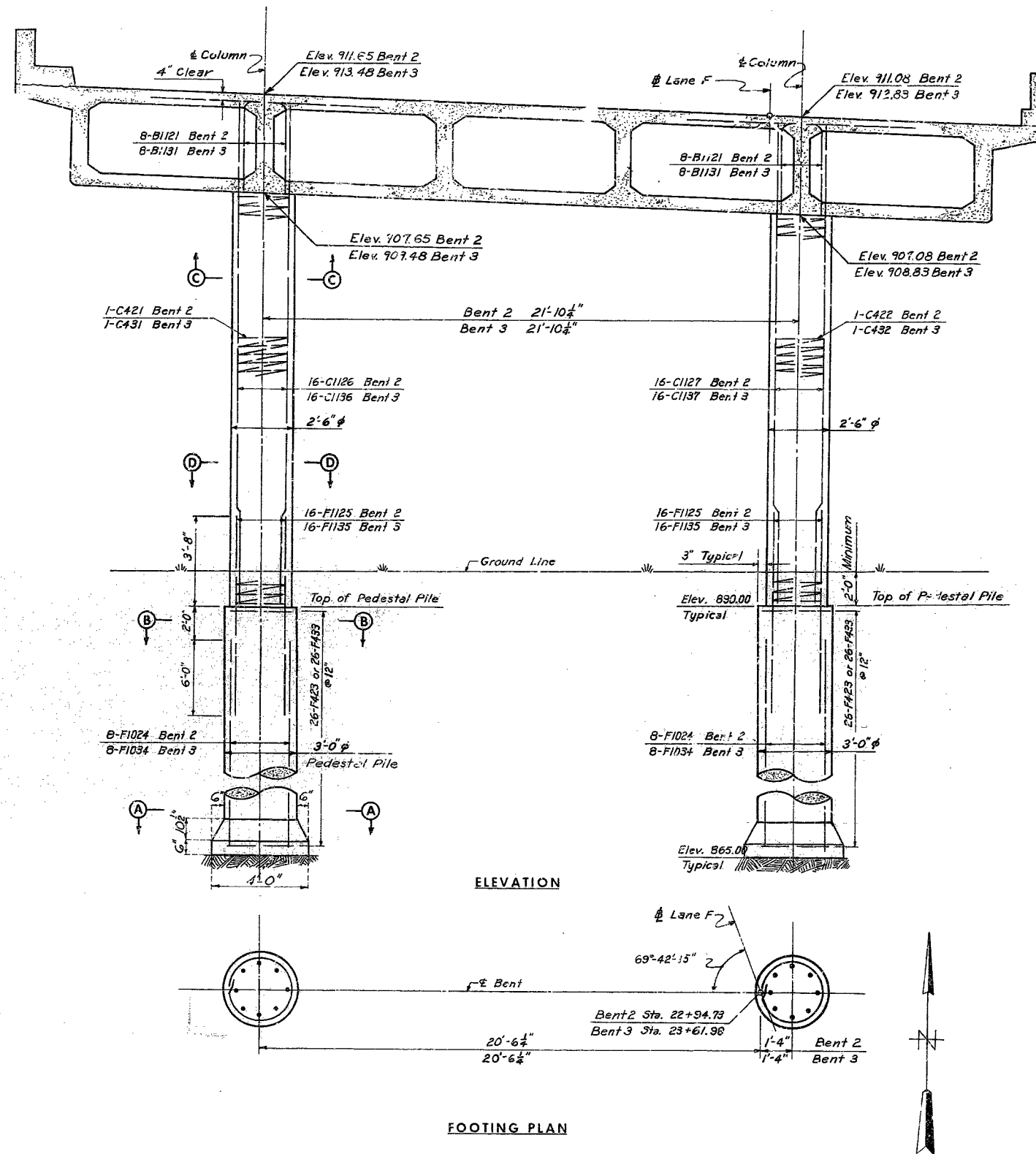
NOTE: This drawing is not to scale. Follow dimensions.

MADE BY	JSH	DATE	6-22-60	TRACED BY		DATE	
CHECKED	EOA	DATE	6-24-60	SCALE			

3/15

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.			31	
4					



NOTE: This drawing is not to scale. Follow dimensions.

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

MADE BY: RGP DATE: 5-13-60 TRACED: DATE: 6-10-60
CHECKED: EOA DATE: 6-10-60 SCALE: 1\"/>

BENTS 2 AND 3

SHEET 3 OF 9

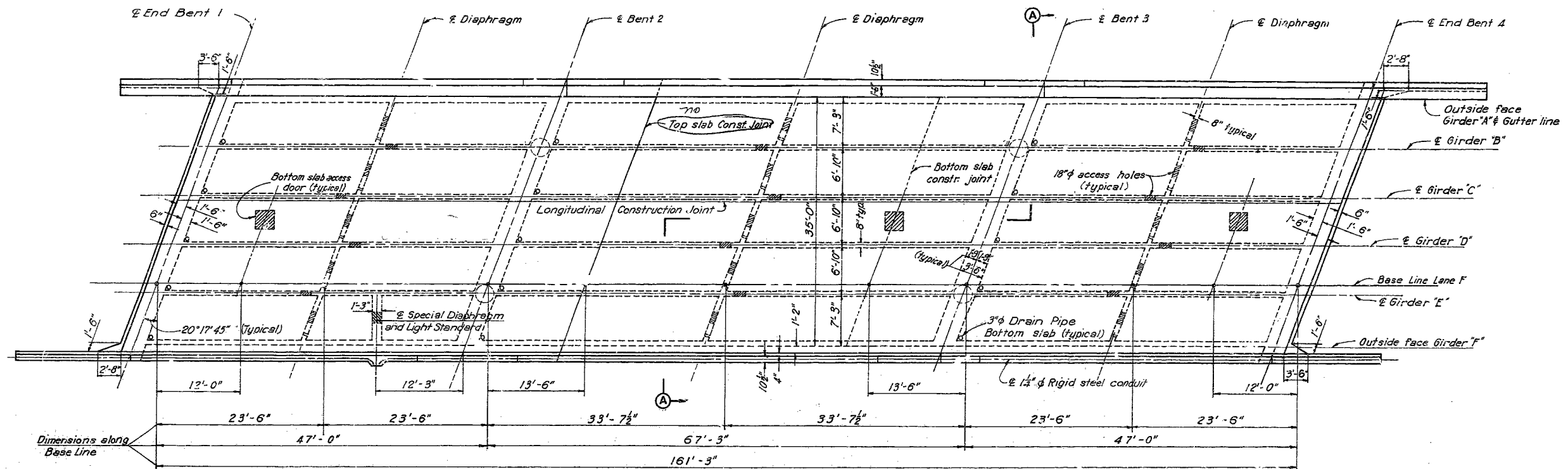
A-246

SEE FINAL PLANS BROWN LINES

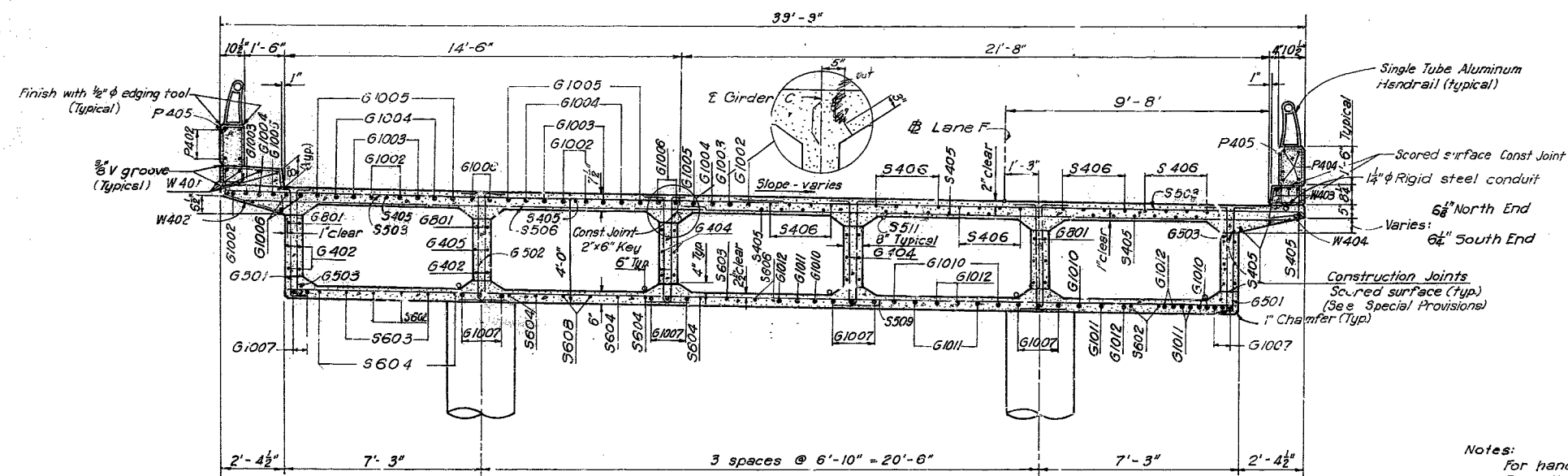
BRIDGE: LANE F OVER 12TH STREET
CROSSTOWN FREEWAY 14th ST. INTERCHANGE
KANSAS CITY, MO.
PROJECT NO. 1-70-1 (29) (RT. 1-70) STA. 32+06.73.
LANE C 152.97' LT.
JACKSON COUNTY

MISSOURI STATE HIGHWAY DEPARTMENT

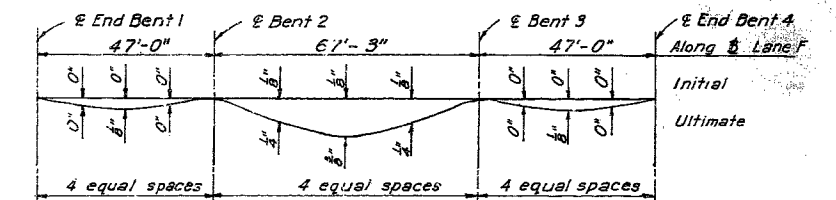
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5	MO.			32	
DIST. NO.	COUNTY	ROUTE	SEC.		
4					



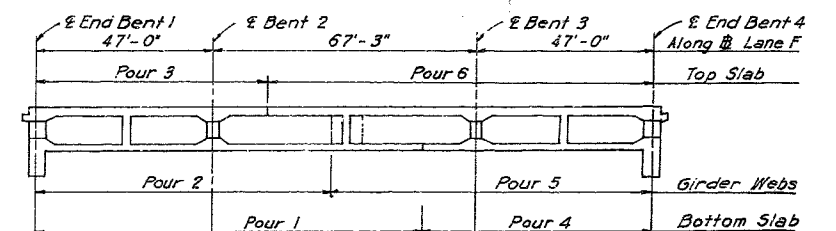
FRAMING PLAN



SECTION A-A



DEAD LOAD DEFLECTION DIAGRAM



POURING SEQUENCE

Note: See Section 16-3E of Supplemental Specifications for possible change in pouring sequence.

Notes:
For handrail details see sheet 9.
For other superstructure details see sheet 7.
For rustication detail see sheet 8.
Forms shall be constructed for ultimate deflection.

FRAMING PLAN

BRIDGE: LANE F OVER 12TH STREET
CROSSTOWN FREEWAY 14th ST. INTERCHANGE
KANSAS CITY, MO.

PROJECT NO. 1-70-1 (24) (RT. 1-70) STA. 32+06.78, LANE C 152.97' LT.

JACKSON COUNTY

SHEET 4 OF 9

A-246

NO CONSTRUCTION CHANGES

HOWARD, NEEDLES, TAMM & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

MADE E.O.A. DATE 5-11-60 TRACED DATE
CHECKED J.C. DATE 6-16-60 SCALE

NOTE: This drawing is not to scale. Follow dimensions.

318

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. 8 SEC.	FISCAL YEAR	SHEET NO.	TO SHEET
5	MO.			33	
DIST. NO.	COUNTY			ROUTE	
4					



SHEET 5 OF 9

A-246

SHEET 5 OF 9

A-246

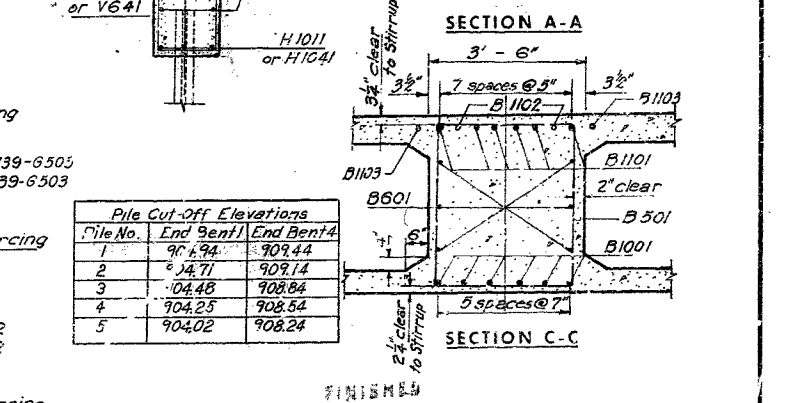
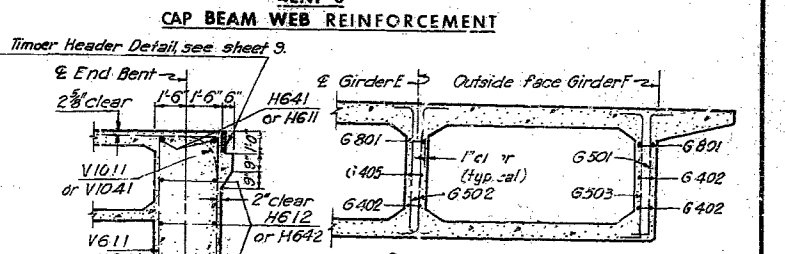
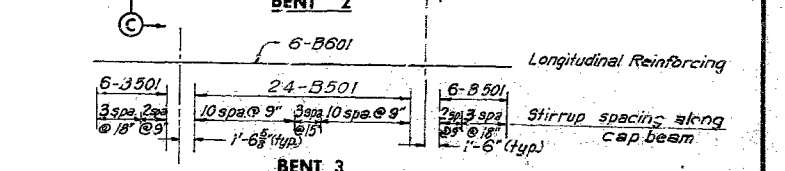
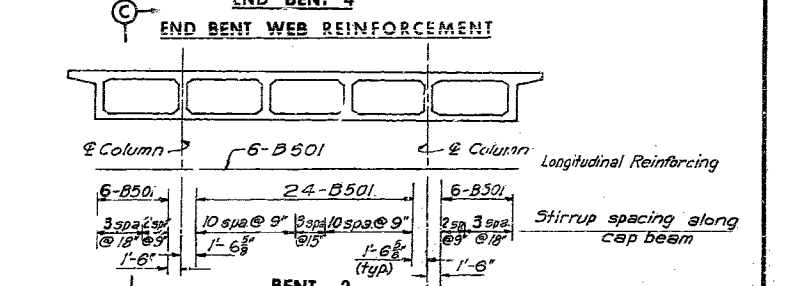
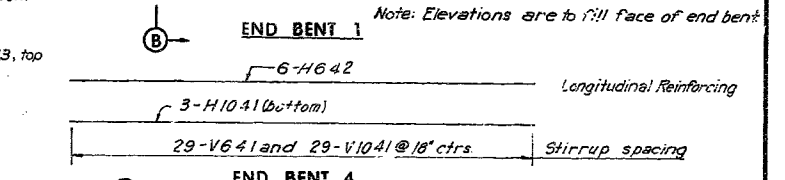
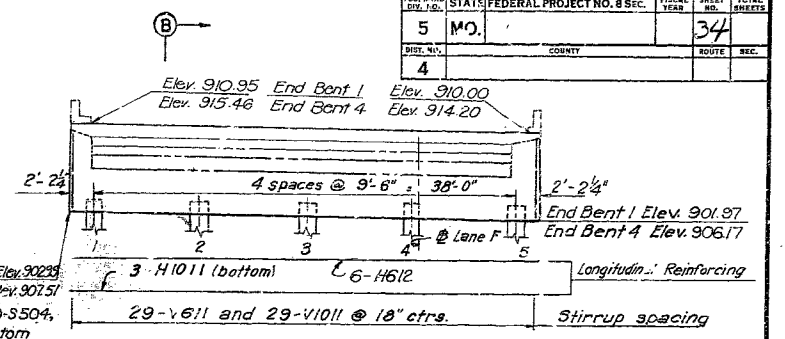
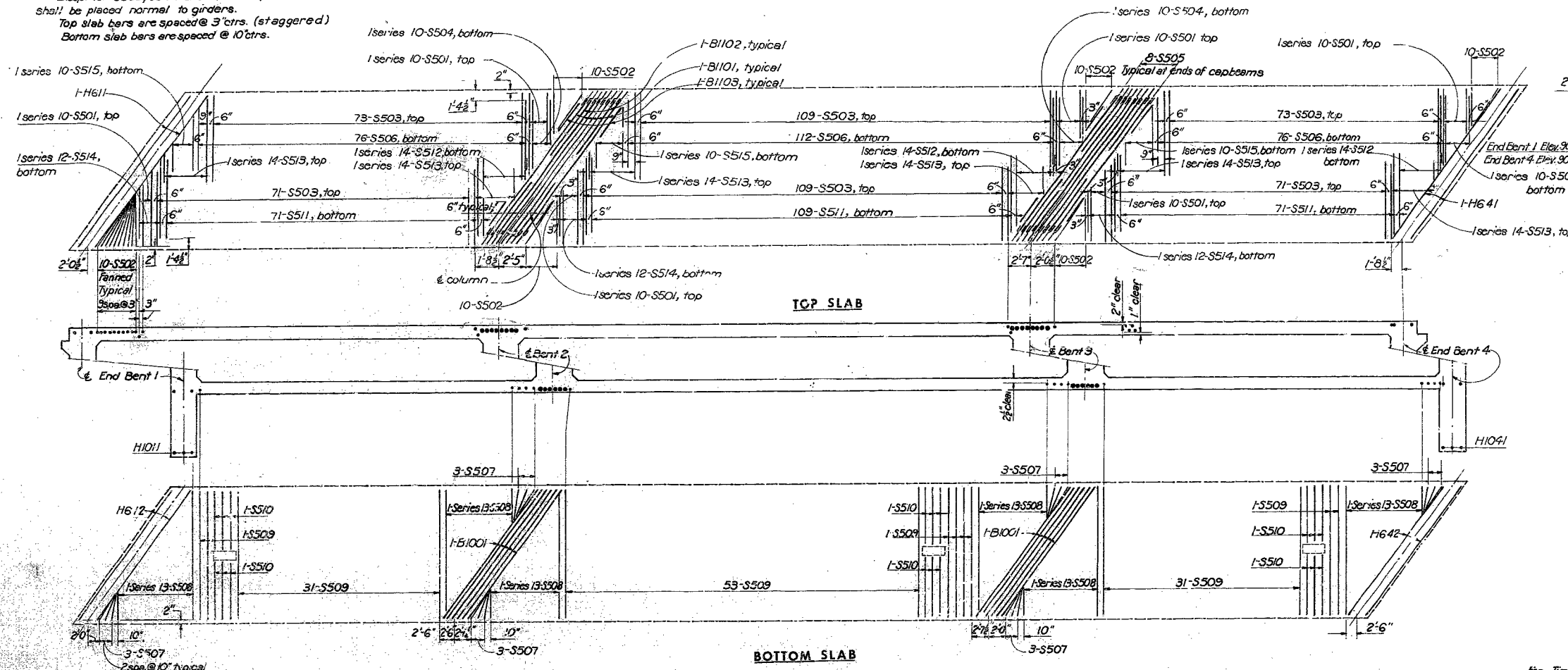
NO CONSTRUCTION CHANGES

MADE: <u>L.O.A</u>	DATE: <u>5-20-60</u>	TRACED: _____	DATE: _____
CHECKED: <u>JSH</u>	DATE: <u>6-8-60</u>	SCALE _____	

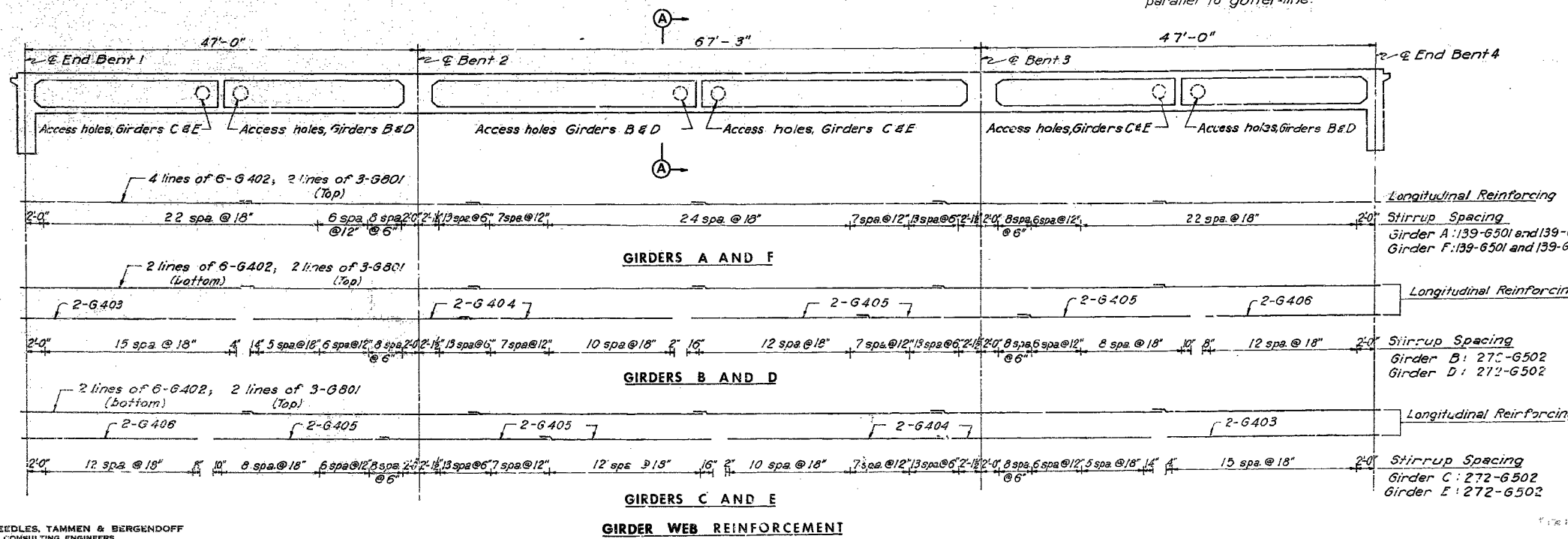
NOTE : This drawing is not to scale. Follow dimensions.

MISSOURI STATE HIGHWAY DEPARTMENT

Note:
Except for S502, S505 and S507 bars, all transverse slab bars shall be placed normal to girders.
Top slab bars are spaced @ 3' ctrs. (staggered)
Bottom slab bars are spaced @ 10' ctrs.



File No.	End Bent 1	End Bent 4
1	90.494	90.944
2	90.471	90.914
3	90.448	90.884
4	90.425	90.854
5	90.402	90.824



File No.	End Bent 1	End Bent 4
1	90.494	90.944
2	90.471	90.914
3	90.448	90.884
4	90.425	90.854
5	90.402	90.824

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY, MISSOURI

MADE RVS 4/20/60 DATE 6-3-60 TRACED DATE
CHECKED JSH DATE 6-16-60 SCALE

NOTE: This drawing is not to scale. Follow dimensions.

TRANSVERSE AND WEB REINFORCING

SHEET 6 OF 9

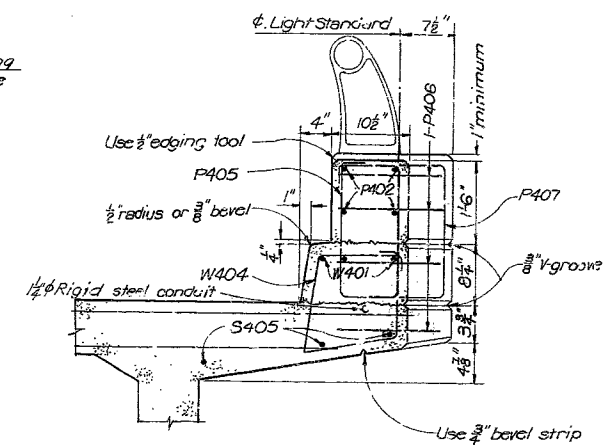
A-246

NO CONSTRUCTION CHANGES

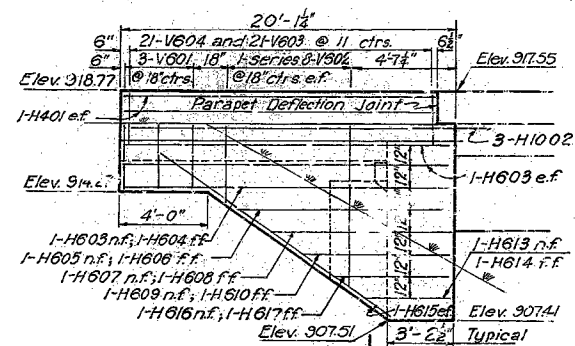
BRIDGE: LANE 2 OVER 12TH STREET
CROSSTOWN FREEWAY 14th ST. INTERCHANGE
KANSAS CITY, MO.
PROJECT NO. 1-70-1 (29) (RT 1-70) STA. 32+06.78
LANE C 152.97' LT.

JACKSON COUNTY

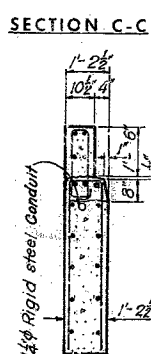
FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. 8 SEC.	FISCAL YEAR	SHEET NO.	OF SHEETS
5	MO.			35	
DIST. NO.	COUNTY			DATE	SEC.
4					



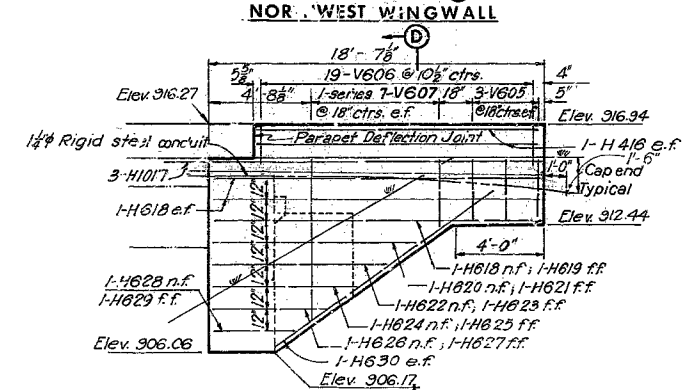
SECTION E-B



NOR. WEST WINGWALL

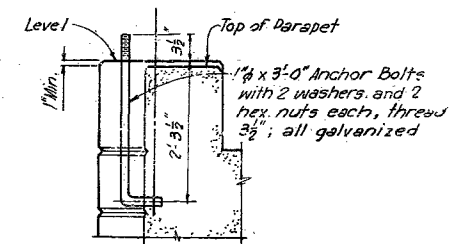


SECTION D-D

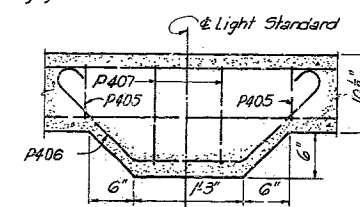


NORTHEAST WINGWALL

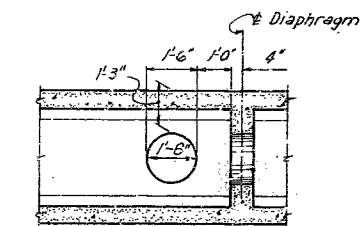
Legend:
n.f.=near face
f.f.=far face
e.f.=each face



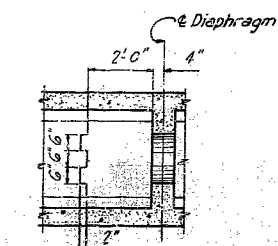
ANCHOR BOLT DETAIL



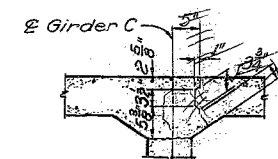
DETAIL A



GIRDER WEB ACCESS HOLE

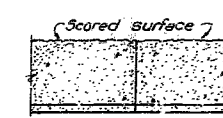


GIRDER WEB CONSTRUCTION JOINT



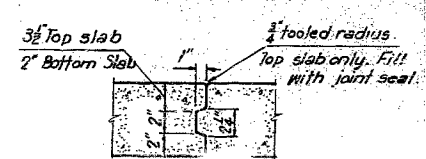
LONGITUDINAL

Note :- Const. joint placed
in center of girder.

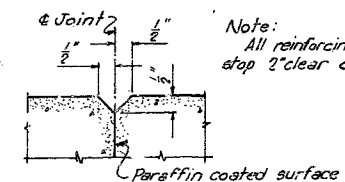


UNDER CURB

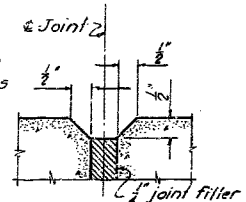
CONSTRUCTION JOINTS



TRANSVERSE



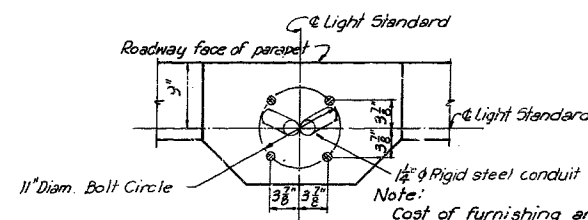
PARAPET ONLY



AT CURB AND PARAPET

DEFLECTION JOINT DETAILS

FINISHED



ANCHOR BOLT SETTING PLAN

SUPERSTRUCTURE DETAILS

BRIDGE: LANE F OVER 12TH STREET

CROSSTOWN FREEWAY 14th ST. INTERCHANGE

KANSAS CITY, MO. 204 220 2000

PROJECT NO. 1-70-1 ³⁹(29) (RT. 1-70) STA. 32+06.78,

JACKSON COUNTY

SHEET 7 OF 9

A-246

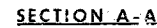
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

MADE RGP DATE 6-1-60 TRACED _____ DATE _____
CHECKED JSH DATE 6-17-60 SCALE _____

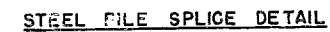
NOTE : This drawing is not to scale. Follow dimensions.

CONCENTRATION OF CHLORIDE IONS PERION *Const. 1000*

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.			36	
DIST. NO.	COUNTY			ROUTE	SEC.
4					



BOTTOM SLAB ACCESS DOOR DETAILS



SLOPE PROTECTION UNDER ENDS OF SUPERSTRUCTURE



BOTTOM SLAB DRAIN

TIMBER HEADER DETAIL



MISCELLANEOUS DETAILS



SHEET 8 OF 9

A-246

NO CONSTRUCTION COSTS FOR

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

MADE <u>RGP</u>	DATE <u>5-23-60</u>	TRACED _____	DATE _____
CHECKED <u>SH</u>	DATE <u>6-10-60</u>	SCALE _____	

NOTE: This drawing is not to scale. Follow dimensions.

33

323

MADE <u>JFP</u>	DATE <u>6-9-60</u>	TRACED _____	DATE _____
CHECKED <u>JSB</u>	DATE <u>6-10-60</u>	SCALE _____	

HANDP. 1

SHEET 9 OF 9

A-246

BRIDGE:LANE F OVER 12TH STREET
CROSTOWN FREEWAY 14th ST. INTERCHANGE
KANSA: CITY, MO.
PROJECT NO. I-70-I ³³₍₂₉₎ (RT. I-70) STA. 32+06.78,
LANE C 152.97' LT.
JACKSON COUNTY



FISHB

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	I-70-1(39)2		28	46
DIST. NO.	COUNTY	ROUTE	SEC.		
4	JACKSON	I-70			

FINAL PLANS

GENERAL NOTES

Design Specifications: A. A. S. H. O. 1957 with tentative revisions for 1958 and 1959.

Design Loading: H-20-S16-44 and alternate loading designated in RRM-20-4 Sec. 4c. 15 #/sq. ft. future wearing surface.

Concrete: Concrete stress: Class B I \bar{c} = 1800 psi
Class B \bar{c} = 1200 psi

NOTE: Cement Content for Class "B" Concrete for superstructure shall be Class B air-entrained. Concrete for pedestal piles and substructure shall be Class "B" air-entrained.

All forms are removed from the interior of box girders except as indicated in Special Provisions for top slab.

Reinforcing Steel: Allowable stress 20,000 psi. All splices in reinforcing steel 32 bar diameters.

Bar sizes are designated on the plans by numbers. The first digit after the letter in three digit marks and the first two digits after the letter in four digit marks indicate the size of the bar.

Dimensions shown on the plans from the reinforcing steel to outside edge of concrete are all clear dimensions.

All casting dimensions are from out to out of bars.

Waterproofing: Superstructure deck waterproofed. See Special Provisions.

Utilities: All utilities, unless shown otherwise, removed or relocated by others. The Contractor will notify the owner of the utilities of his work schedule sufficiently in advance to allow time for the disposition of utilities.

Shipping: Permits obtained for all truck loads over legal length.

Joint Filler: Where joint filler is specified on the plans it conform with the requirements for gray rubber compound joints as given in Section 592B of the Standard Specifications.

Aluminum Alloy Handrail: See Special Provisions

Serrating Specified Construction Joints: See Special Provisions.

Traffic: 12th Street remain open to traffic during construction. Falsework over 12th Street constructed with a minimum vertical clearance of not less than 12'0" and a minimum lateral clearance of not less than 28'0". (See Special Provisions).

Piling: All piles conform with details and notes on Sheet No. 6. All piles required for this structure furnished by the State. (See Special Provisions). All piles driven to or into solid rock boulders, shale or cemented gravel or to not less than full length authorized, and to sustain a load of at least 55 tons per pile for 10 BP42. All piles driven with a steam hammer. See Section 22-3C of Standard Specifications for equipment and painting of steel piles.

Traffic: 12th Street remain open to traffic during construction. Falsework over 12th Street constructed with a minimum vertical clearance of not less than 12'0" and a minimum lateral clearance of not less than 28'0". (See Special Provisions).

Qualifications of welding operators required.

SUBMITTED BY: *R. A. Bergendoff* FINISHED

REGISTERED PROFESSIONAL ENGINEER
MISSOURI NO. E-253

BRIDGE LANE F OVER 12TH STREET
CROSSTOWN FREEWAY 14th ST. INTERCHANGE
KANSAS CITY, MO.

PROJECT NO. 1-70-1(39)2 (RT. 1-70) STA. 32+06.78, LANE C
JACKSON COUNTY STA. 22+46.13 LANE F

SUBMITTED BY: *R. A. Bergendoff* DATE 10-11-60
BRIDGE ENGINEER
APPROVED BY: *R. A. Bergendoff* DATE 10-11-60
CHIEF ENGINEER

GENERAL PLAN AND ELEVATION SHEET 1A OF 2

STD. C110 R7
A-246

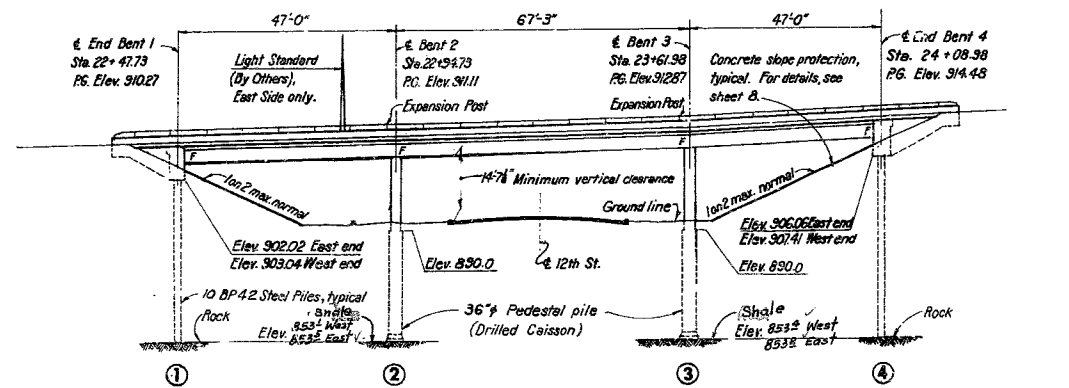
FINAL PLANS

PROFILE GRADE ELEVATIONS

SUPERELEVATIONS (At quarter station)

PROFILE GRADE AND SUPERELEVATION

47'-0" - 67'-3" - 47'-0" CONTINUOUS CONCRETE BOX GIRDER SPANS



ELEVATION

Note: All loose, shelly or disintegrated rock removed and the pedestal piles placed on hard, solid, undisturbed rock. If soft rock or shale encountered, the pedestal piles carried at least 18" into and cast against vertical faces of same. Bearing of 21 ton per sq. ft. used in design of pedestal pile on rock.

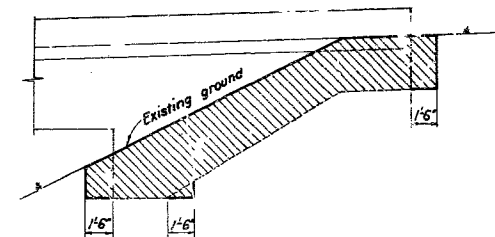
Quantity Notes:

All excavation for bridge will be paid for as Class 1 Excavation for Structures. Sketch below shows limits of excavation for pay purposes.

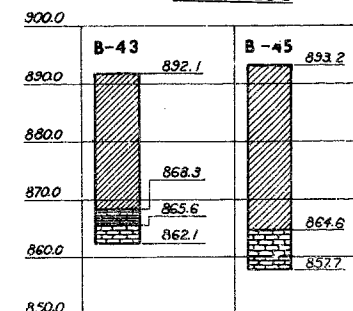
All concrete and reinforcement above top of pedestal piles are included in superstructure quantities. Reinforcement in pedestal pile is included in substructure quantities.

Pedestal piles constructed and paid for in accordance with Sect. 16-7 of Supplemental Specifications as "Drilled Caissons."

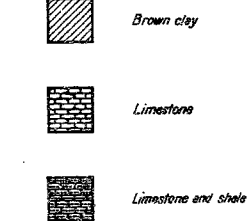
LIMITS OF EXCAVATION



BORING LOG



BORING LEGEND



Notes: Boring log locations are noted thus: B-45
Elevation shown at top of boring is top of ground.

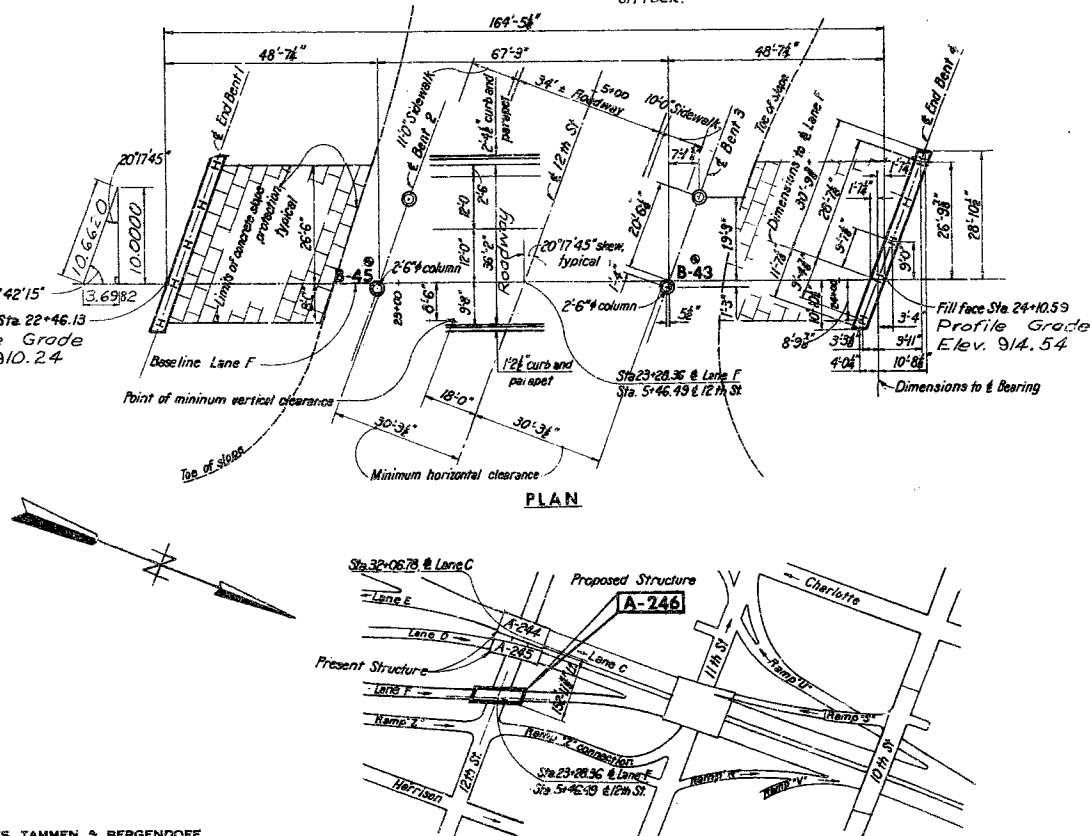
Bench Mark
B.M. #1 - "x" on South bolt, top hydrant, NW corner
12th and Charlotte St. Elev. 888.18.

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY, MISSOURI
NEW YORK

MADE: JSH DATE 5-25-60 TRACED: DATE
CHECKED: JFP DATE 8-8-60 SCALE

NOTE: This drawing is not to scale. Follow dimensions.

LOCATION SKETCH

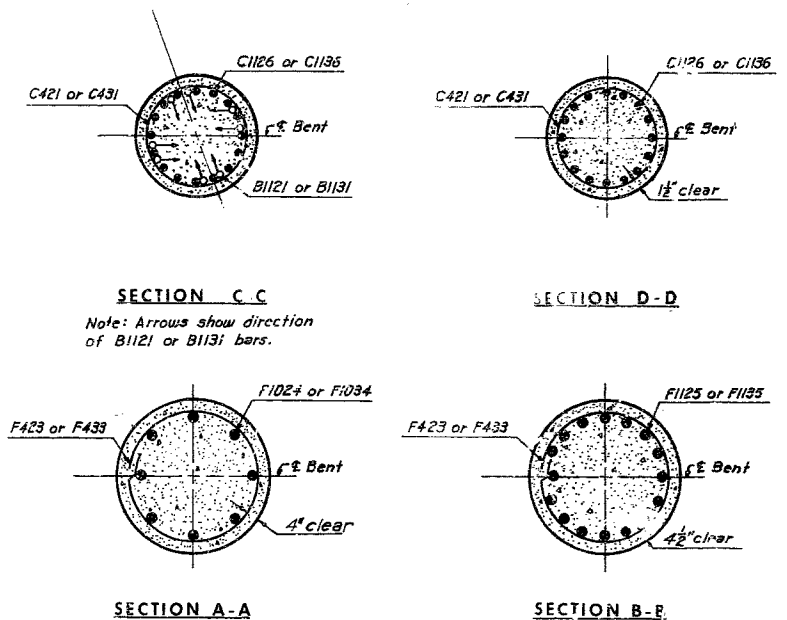
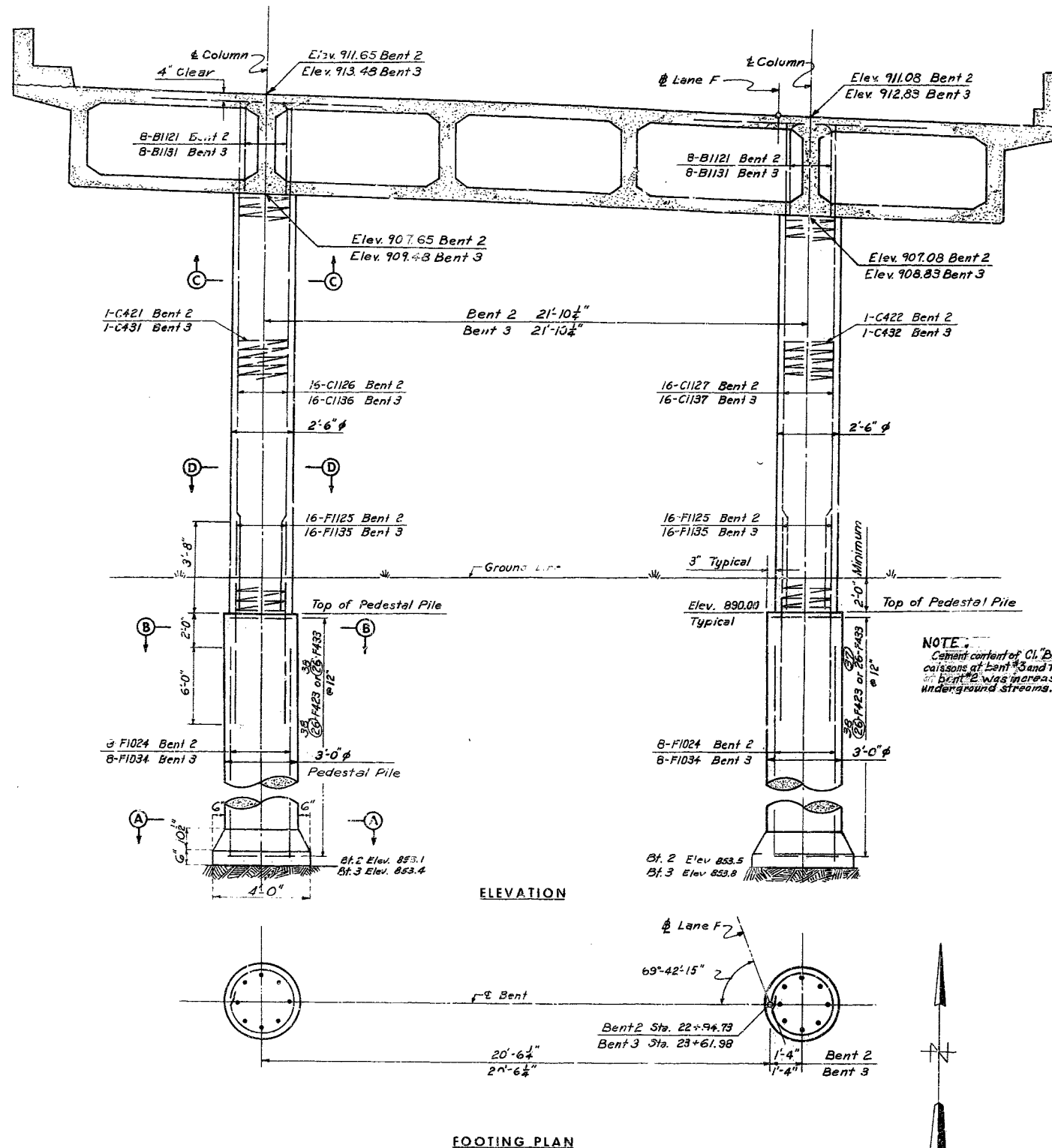


324

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	I-70-1(39)2		30	46
DIST. NO.	COUNTY	SCALE	DATE		
4	JACKSON	I-70			

FINAL PLANS



NOTE:
Cement content of C1, B concrete for drilled caissons at Bent 2 and the west caisson at Bent 2 was increased 15% due to underground streams.

BRIDGE: LANE F OVER 12TH STREET
CROSSTOWN FREEWAY 14th ST. INTERCHANGE
KANSAS CITY, MO.
PROJECT NO. I-70 1 (39)2 (RT. I-70) STA. 32+66.78,
LANE C 152.97' LT.
STA. 22+46.13 LANE F

BENTS 2 AND 3 SHEET 3A of 2 A-246

FINAL PLANS

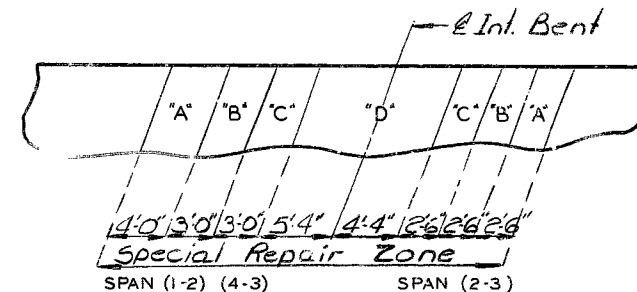
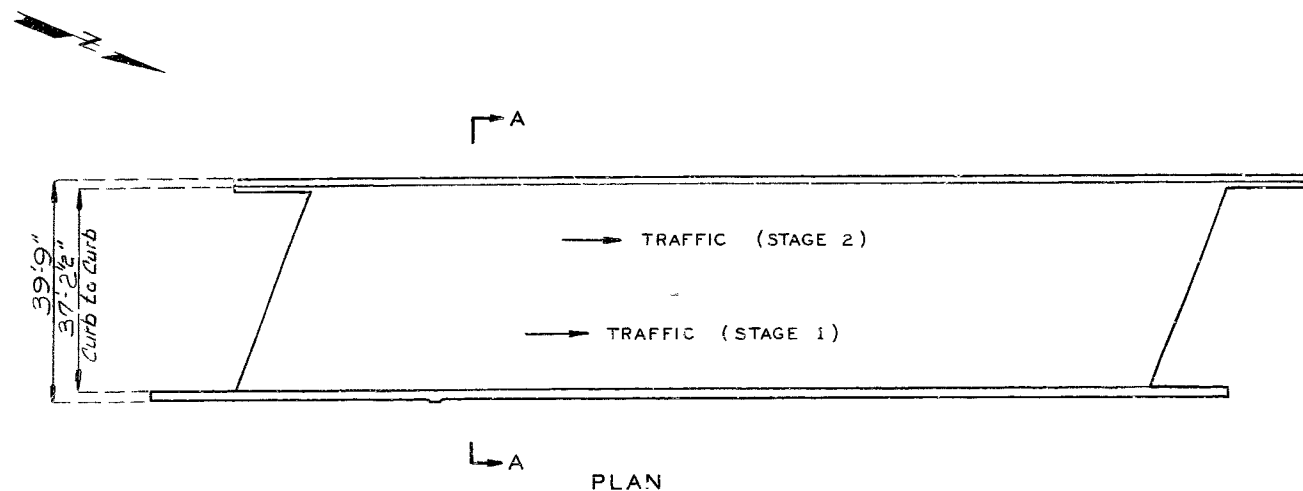
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK
MADE BY RGP DATE 5-12-60 TRACED DATE
CHECKED EOA DATE 6-11-60 SCALE

NOTE: This drawing is not to scale. Follow dimensions.

325

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	MO.		19	9	
SEC./SUR. 5 TWP. 49 N RGE. 33 W					



PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES

Note: Care shall be exercised during deck repair to maintain structural integrity of bridge.
Sequence for Repair: Zone 'A', Zone 'B', then Zone 'C'.
Repair zones at one bent with the same letter designation may be repaired at the same time.
Any repair in the remainder of the bridge that is within 2'-6" of adjacent Zone 'A' shall be completed before removing old concrete in Zones 'A'.

BILL OF REINFORCING STEEL						
NO. REQD.	SIZE & MARK	LOCATION	SHAPE	NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT (LBS.)
210	5-R1	Barrier Curb	19s	2'-10"	2'-8"	584
210	5-R2		15s	2'-10"	2'-9"	602
16	5-R3		20	5'-0"	5'-0"	83
1	5-R4			18'-1"	18'-1"	19
2	5-R5			14'-9"	14'-9"	31
3	5-R6			18'-4"	18'-4"	57
1	5-R7			16'-7"	16'-7"	17
1	5-R8			20'-1"	20'-1"	21
2	5-R9			16'-9"	16'-9"	35
3	5-R10			20'-4"	20'-4"	64
1	5-R11			18'-7"	18'-7"	19
* 30	5-R12			9'-9"	9'-9"	305
7	5-R13			34'-8"	34'-8"	253
7	5-R14			47'-0"	47'-0"	343
7	5-R15	Barrier Curb	20	35'-2"	35'-2"	257

*

Notes: All reinforcement shall be epoxy coated.
Reinforcement shall meet specifications of C.R.S.I.

* 2 additional #5-R12 are included in the bar bill or testing.

Actual lengths are measured along centerline bar to the nearest inch. Nominal lengths are based on out to out dimensions.

s - stirrup bend

GENERAL NOTES:

Design Specifications: AASHTO-1977 & interims thru '83

Design Loading: HS20-44

Modified 24,000 # tandem axle

Design Unit Stresses:

Class B1 concrete (Safety Barrier Curb)

$f'_c = 4,000$ p.s.i.

Reinforcing Steel (Grade 60) $f_y = 60,000$ p.s.i.

All joint filler shall meet the requirement of Std. Spec. 1057.2.4 except as noted.
Minimum clearance to reinforcing steel shall be 1 1/2" unless otherwise shown.
Traffic over structure to be maintained during construction.

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars.

Holes for 3/4" anchor bar may be slanted slightly to miss slab reinforcement.

See Special Provisions for removal and storage of Handrail and Posts from west parapet.

Construction Clearance: Falsework over existing lanes shall be constructed with a minimum vertical clearance of 13'-6" from crown of existing lanes and a minimum lateral clearance of 32'-0" centered on existing lanes.

ESTIMATED QUANTITIES		
ITEM		TOTAL
Special Work	Lump Sum	1
Asphalt Cement (Asph. Conc.) (60-70 or AC20)	Ton	2.8
Mineral Aggregate (Asph. Conc.) (Type A Mix)	Ton	53
Tack Coat ①	Gal.	40
Safety Barrier Curb	Lin. Ft.	197
Repairing Conc. Deck (Half Soling)	Sq. Ft.	2448
Full Depth Repair	Sq. Ft.	306
Deck overhang Repair	Lin. Ft.	20
Cathodic Deck Protection		

① Tack-coat shall be emulsified asphalt applied at a rate of .05 gallons per square yard.

B.M. No. 1 - "X" on south boll, top hydrant, N.W. corner 12th and Charlotte St. Elev 883.18

BRIDGE: LANE "F" OVER 12 TH STREET

STATE ROAD: INTERSTATE 35

IN KANSAS CITY

PROJECT NO. I-1R-35-1 (144) STA. 22 + 46.13

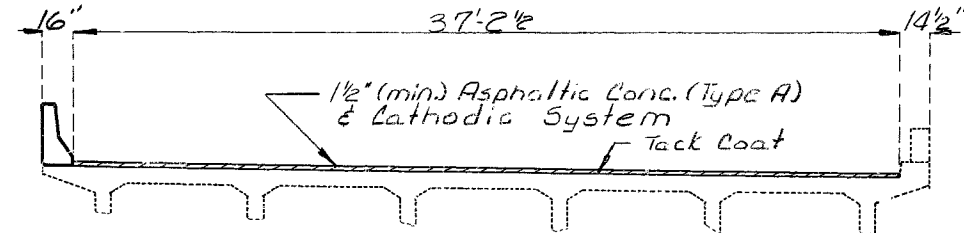
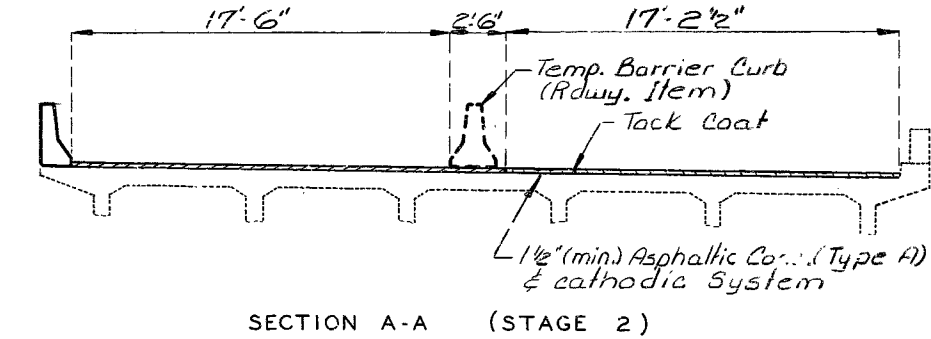
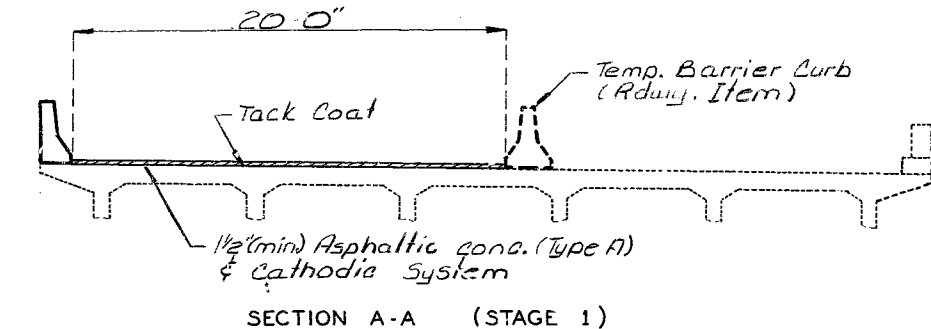
JOB NO. 4 - I-35-448

JACKSON

RTE. I-35

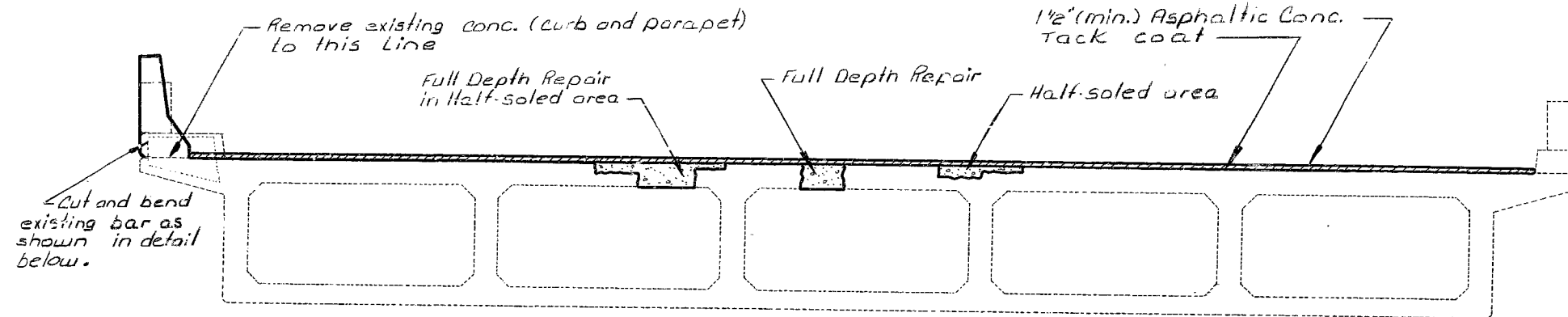
COUNTY

STD.
STD. 106-35
A-246 R

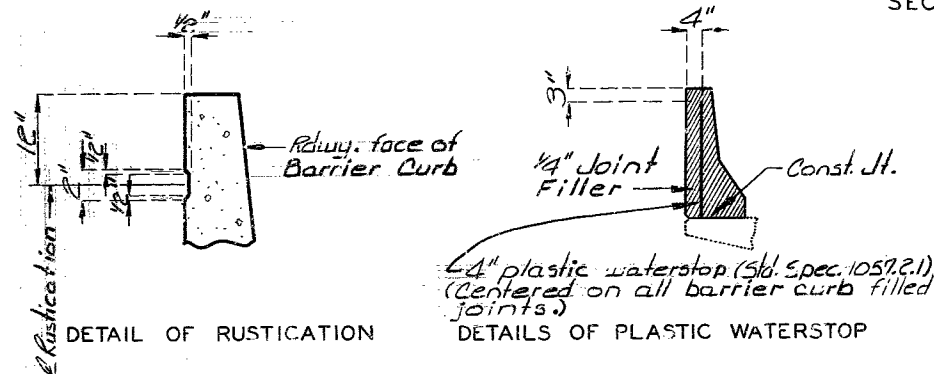


Note: For details of Cathodic Deck Protection see sheet No. 4.

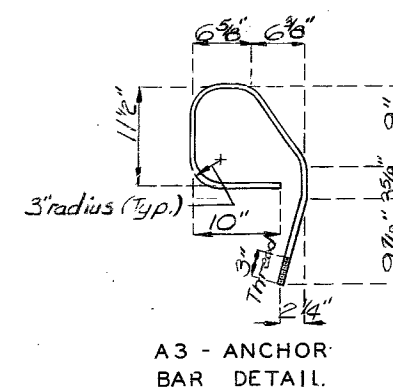
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	10	



SECTION THRU SLAB

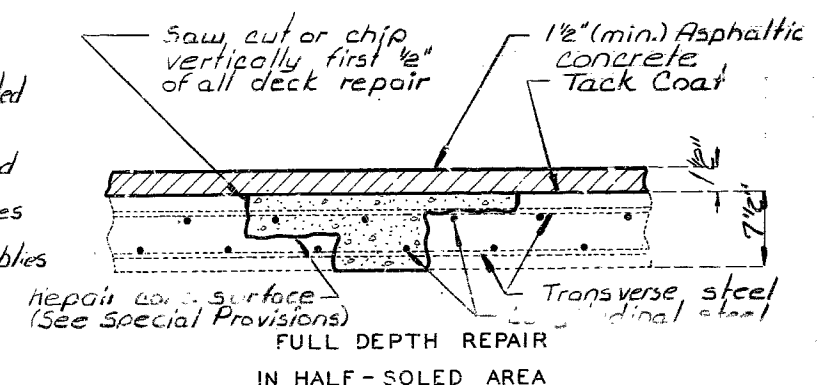
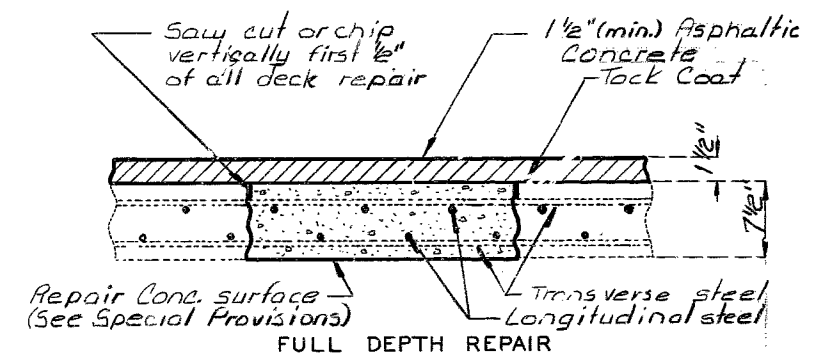
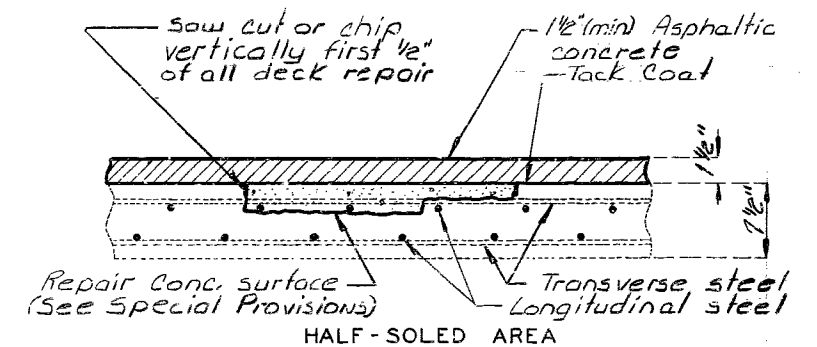


Note: Overhang Repair includes labor, concrete, and reinforcement required for repair (See Special Provisions).



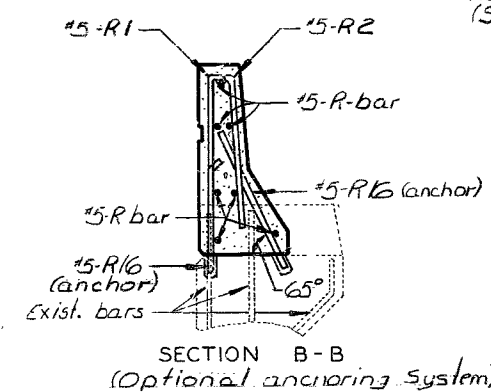
A3 - ANCHOR BAR DETAIL

Note: Each A3-anchor bar (A.S.T.M. A36) shall be furnished with a 1/4 X 3 X 3 R (A.S.T.M. A36) and one heavy hex nut (A.S.T.M. A307). Anchor bars shall be epoxy coated, the threaded area of the anchor bars, 1/4" plates (including areas in contact with concrete) and nuts shall be cleaned and painted with system C inorganic zinc prime coat. After the concrete in the barrier curb has set, the plate and nut shall be installed and the nut tightened snug tight and the threads burred. Cost of furnishing and installing anchor bar assemblies shall be included in the price bid per lin. ft. of Barrier Curb. For details and location of 3/4" anchor bar assemblies see sheet NO. 3.



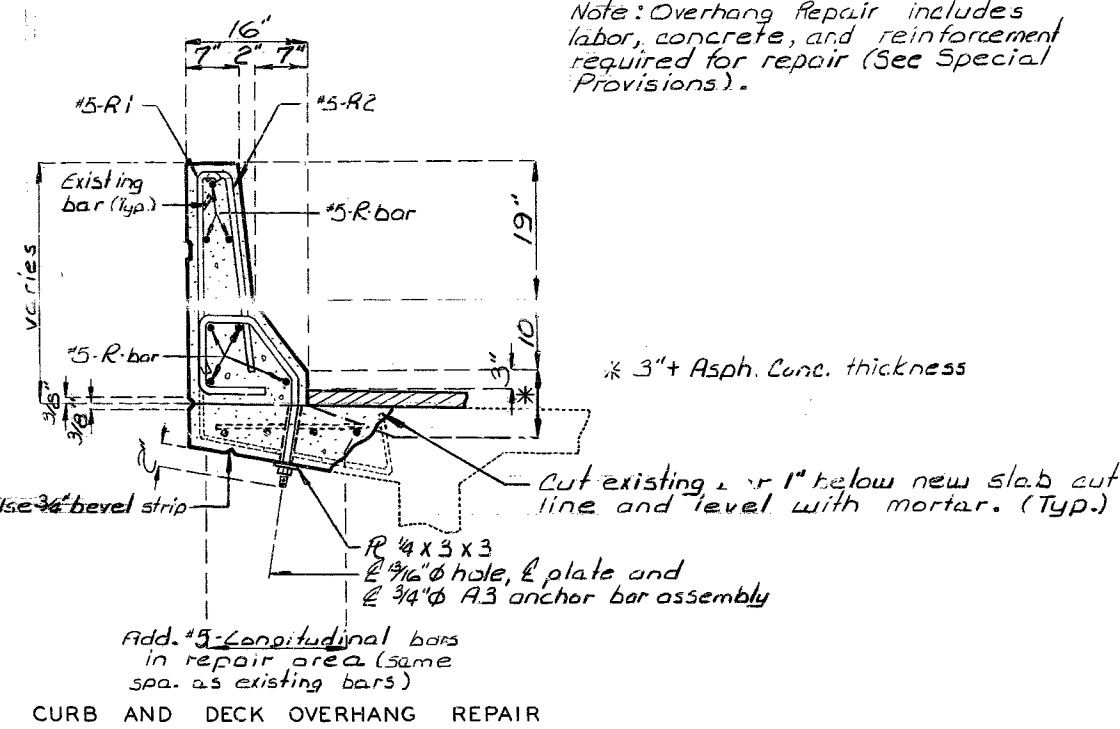
Note: The contractor shall use one of the following anchor systems at End Bt. Wings.
1. Molly Parcbond Capsule Anchors
2. Hilti HVA Adhesive Anchor
3. Sup-R-Set Synthetic Resin Capsule Anchor

These anchor systems shall be installed according to the manufacturer's specifications, except that an epoxy coated 3/4" dia. Gr60 Rein. bar (R16) 2'-6" long shall be substituted for the threaded rod stud.



Note: For location of Section B-B see sheet No. 3.

SECTION B-B (Optional anchoring system)



DETAILED APR. 1984
CHECKED Apr. 1984

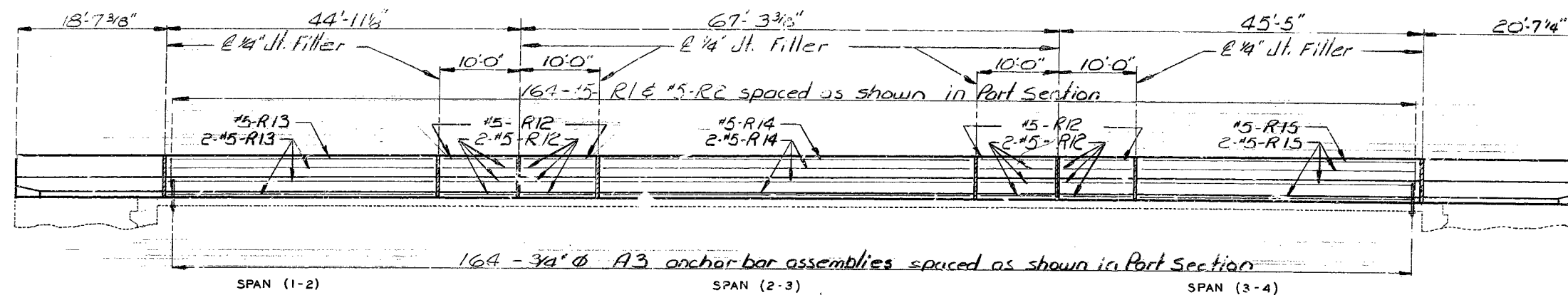
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 2 of 5

JACKSON COUNTY

A-246 R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	11	



Note: Use a minimum lap of 17" for #5 horizontal barrier curb bars.

Note: Rustication not shown for clarity. Longitudinal dimensions are along top of Barrier Curb parallel to grade.

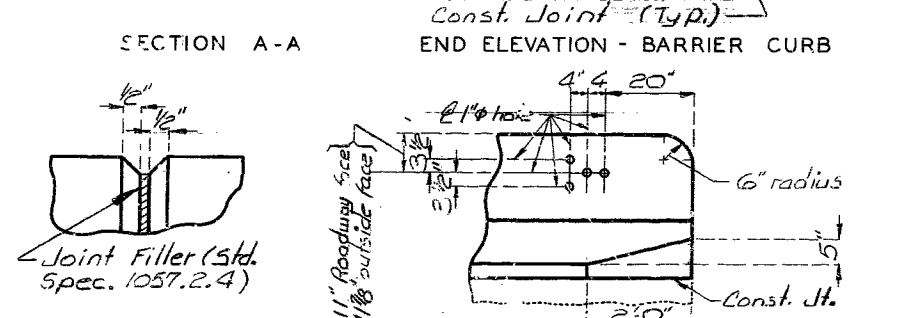
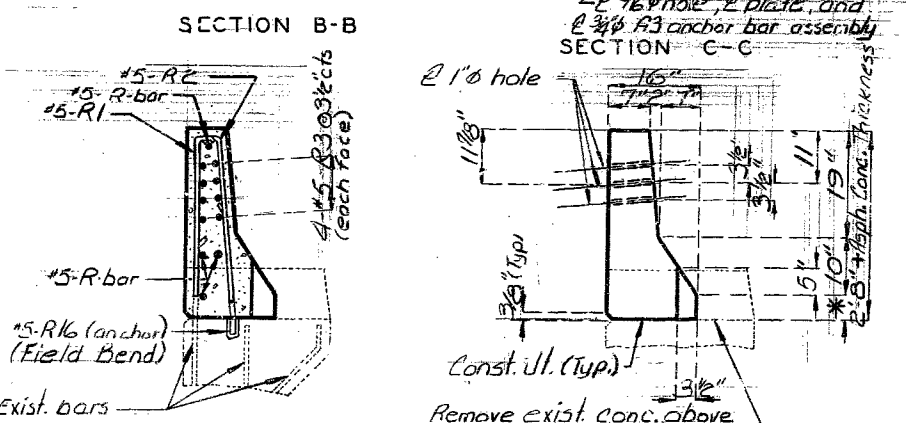
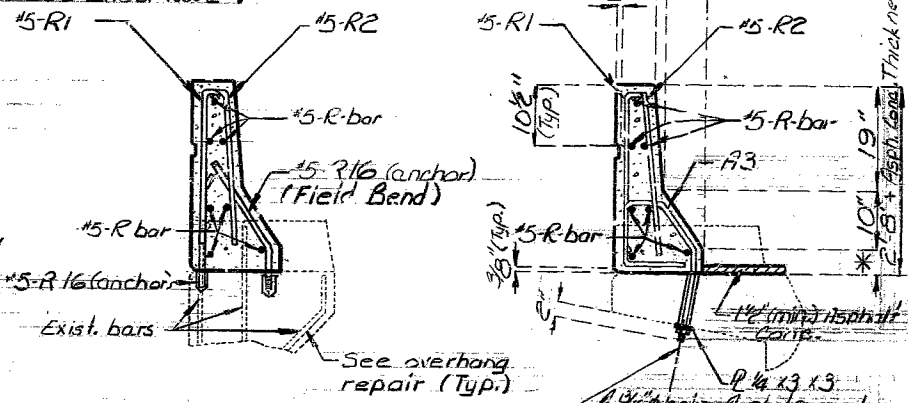
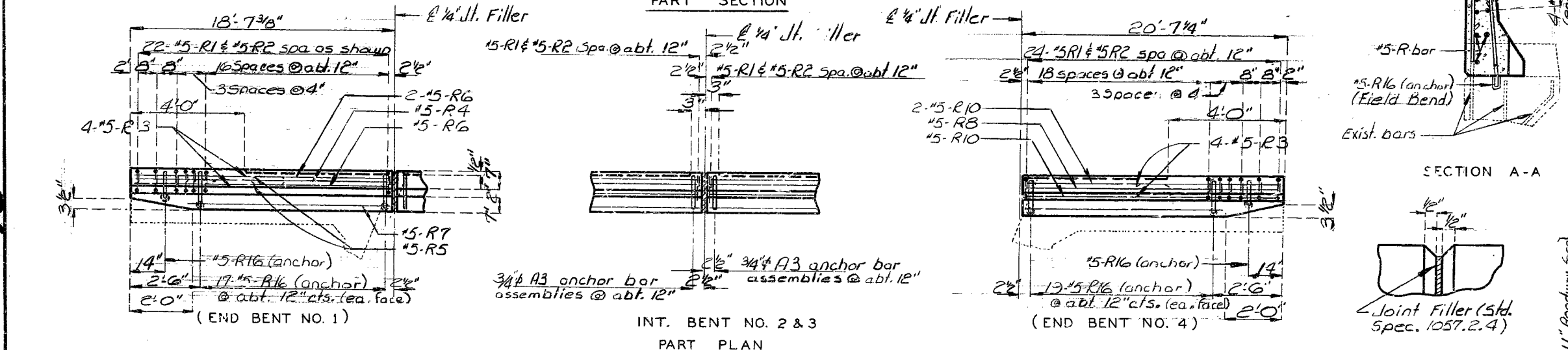
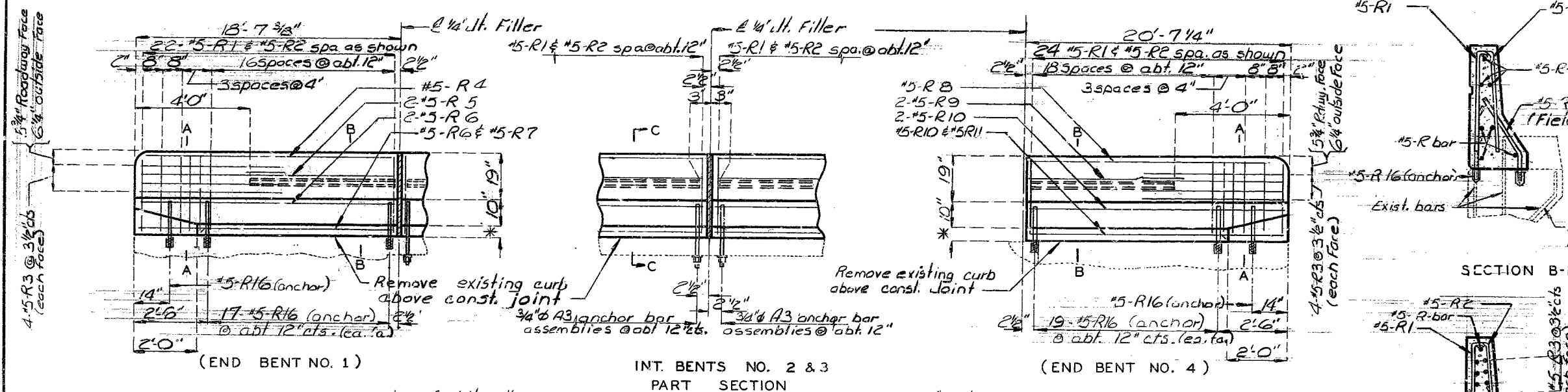
* 3" asphalt concrete thickness
Note: For optional Anchoring System see sheet No. 2.

Note: Top of Barrier Curb to be built parallel to grade with barrier curb joints (except at end bents) normal to grade.

All exposed edges of barrier curb shall have 1/2" radius or 3/8" bevel unless otherwise noted.

When the barrier curb is bid by linear feet the contract unit price shall include the cost of concrete and reinforcement including Anchor Bars complete in place.

Measurement of Safety barrier curb is to the nearest linear foot for each structure, measured along the outside top face of the curb from end of wing to end of wing.



DETAILED Apr. 15 84
CHECKED Apr. 19 84

Note: This drawing is not to scale. Follow dimensions.

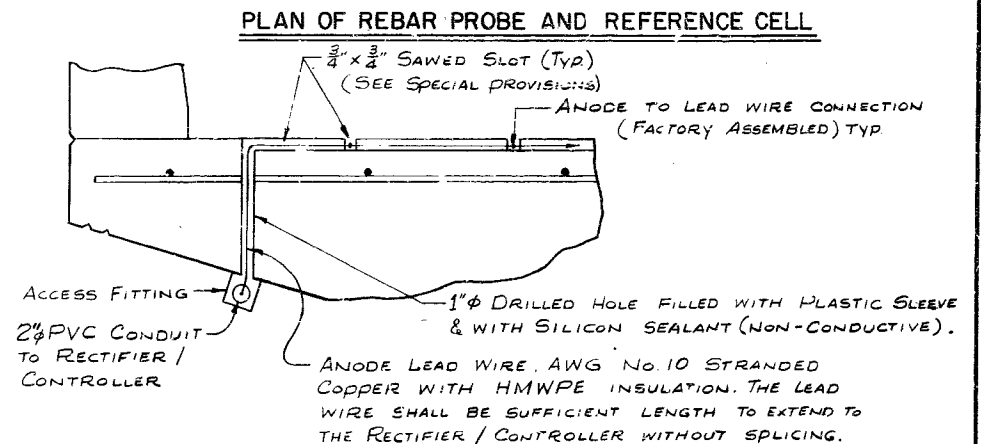
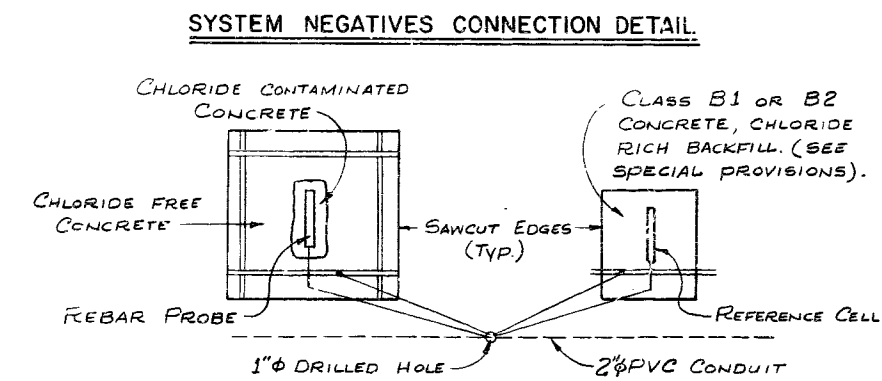
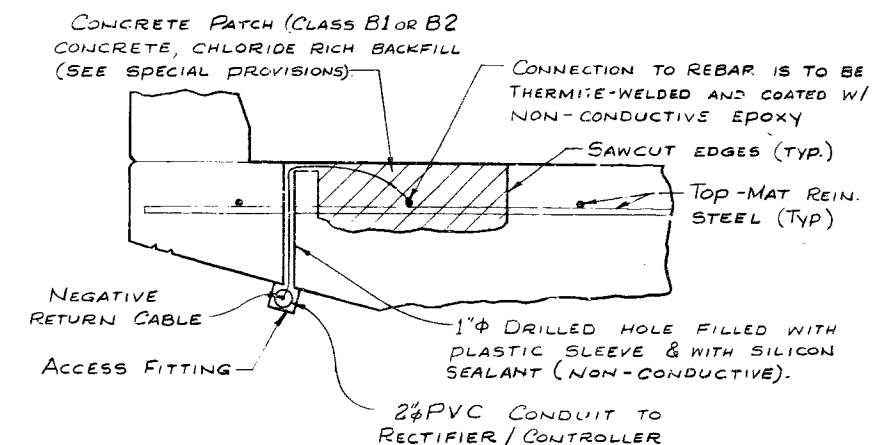
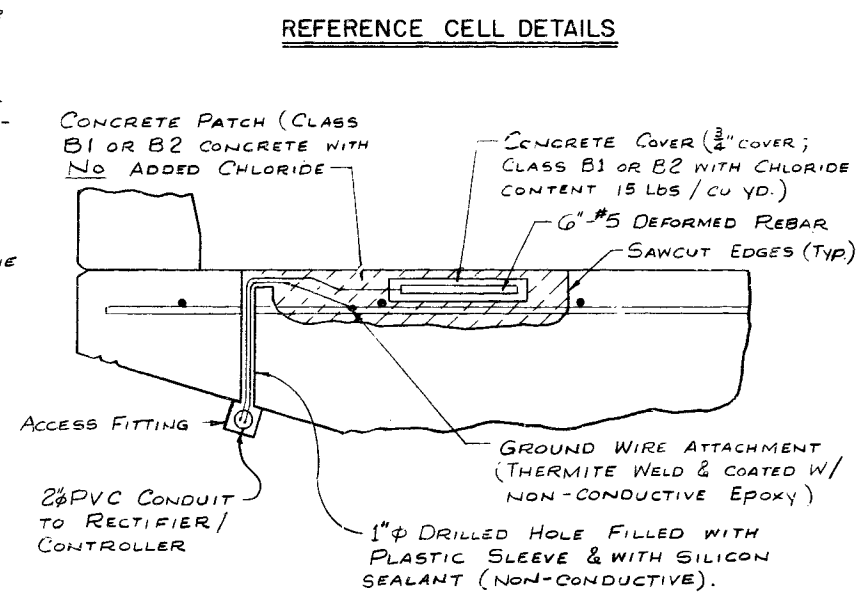
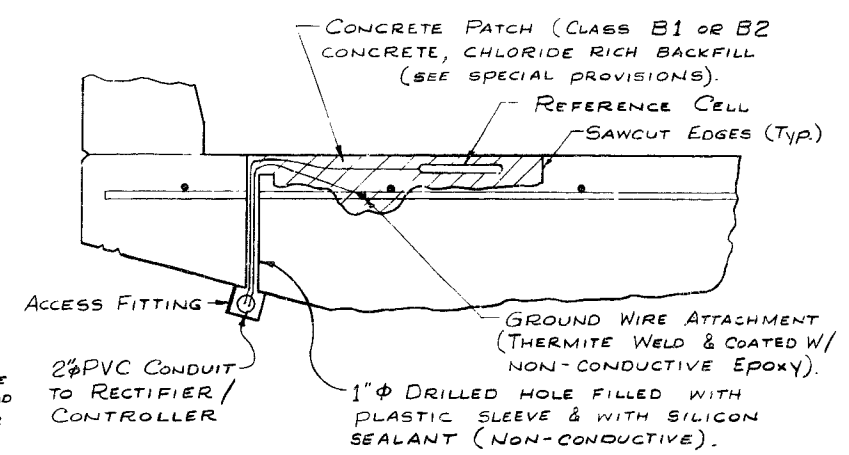
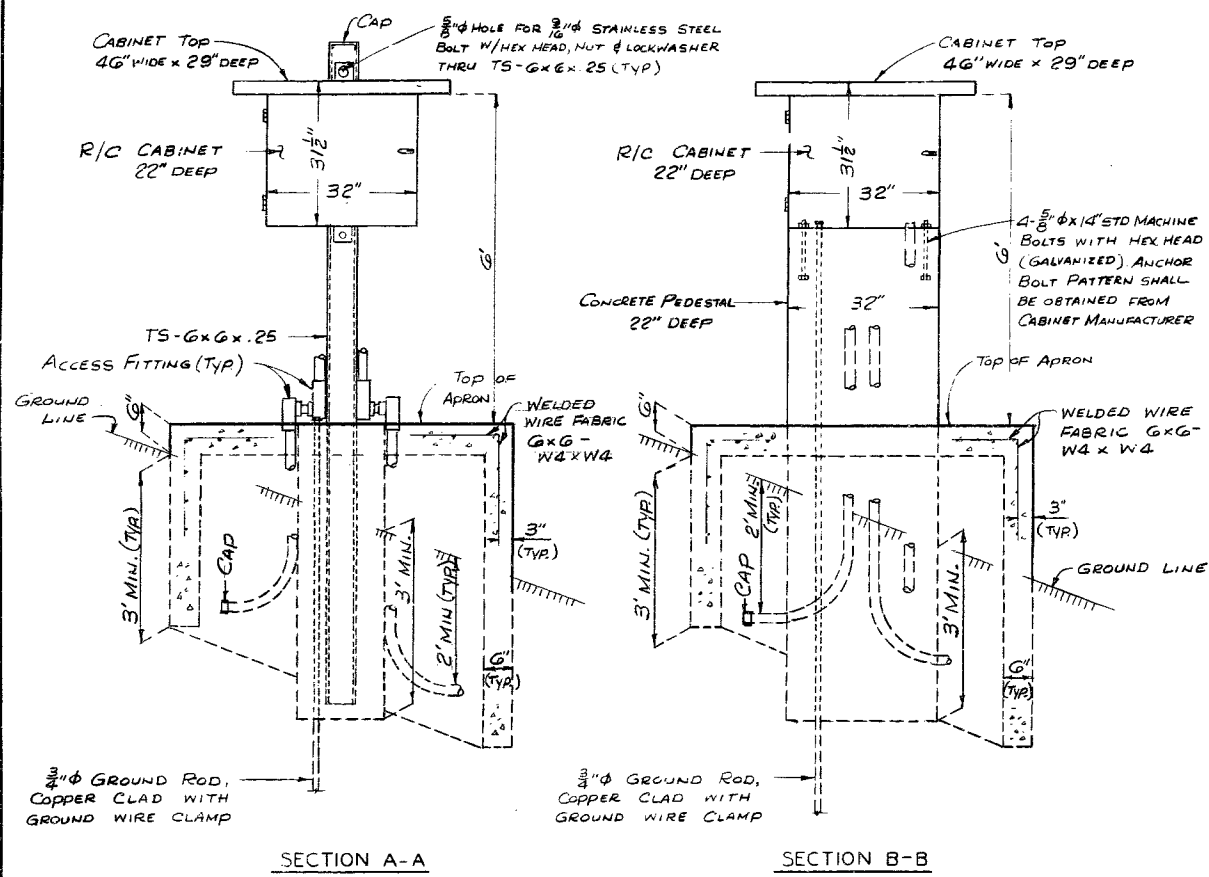
Sheet No. 3 of 5.

JACKSON

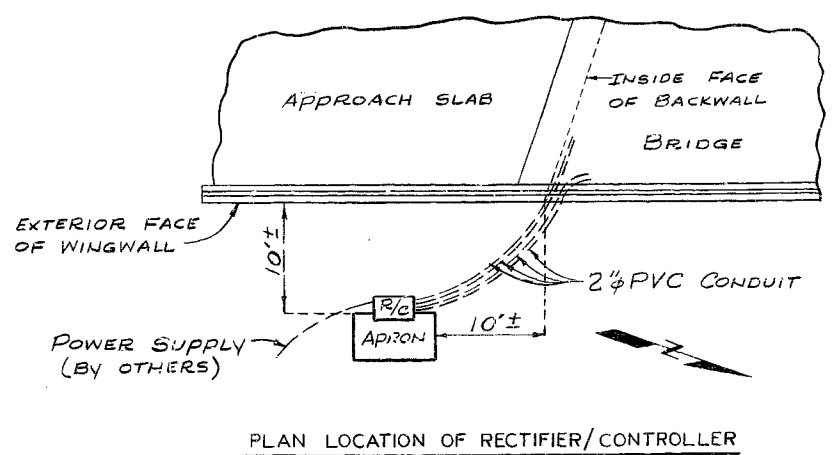
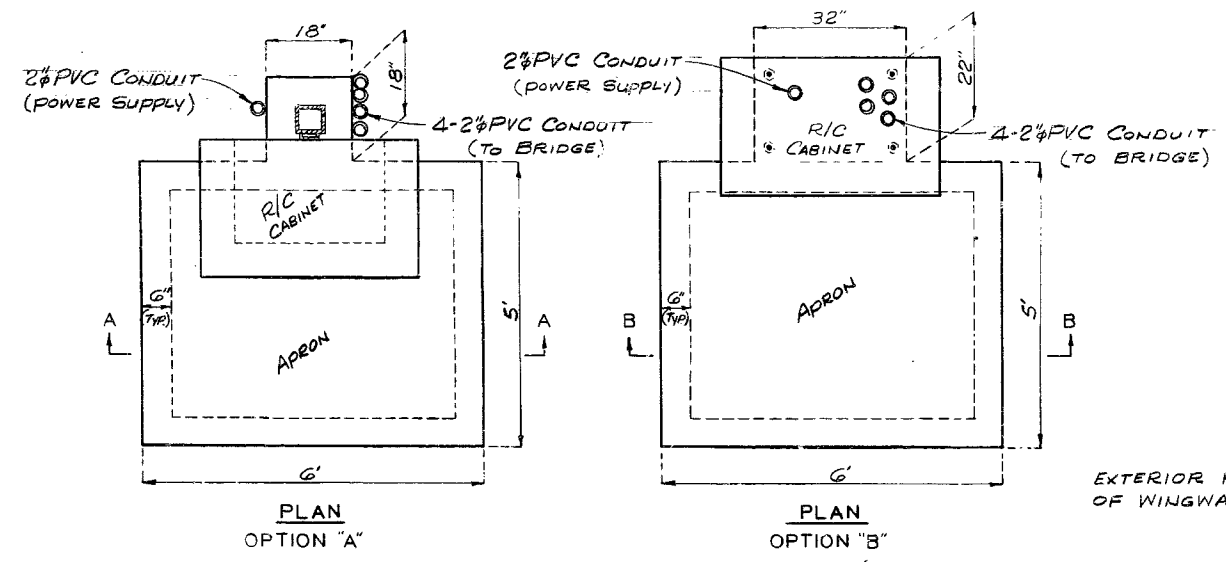
COUNTY

A-246R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MD.		19	13	



NOTES: CONDUIT SHALL BE SCHEDULE 40 HEAVY WALL PVC (POLYVINYL CHLORIDE PLASTIC).
CONDUIT SHALL BE SECURED TO CONCRETE WITH CLAMPS @ APT. 5' CENTERS.
WEED HOLES SHALL BE PROVIDED AT APPROPRIATE LOCATIONS TO DRAIN ANY MOISTURE IN THE CONDUIT LINES.
THE LOCATION AND DIRECTION OF CONDUIT MAY BE SHIFTED TO MEET FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
USE EXPANSION COUPLINGS AND ACCESS FITTINGS WHERE APPROPRIATE.



NOTE: THE 3/4\"/>

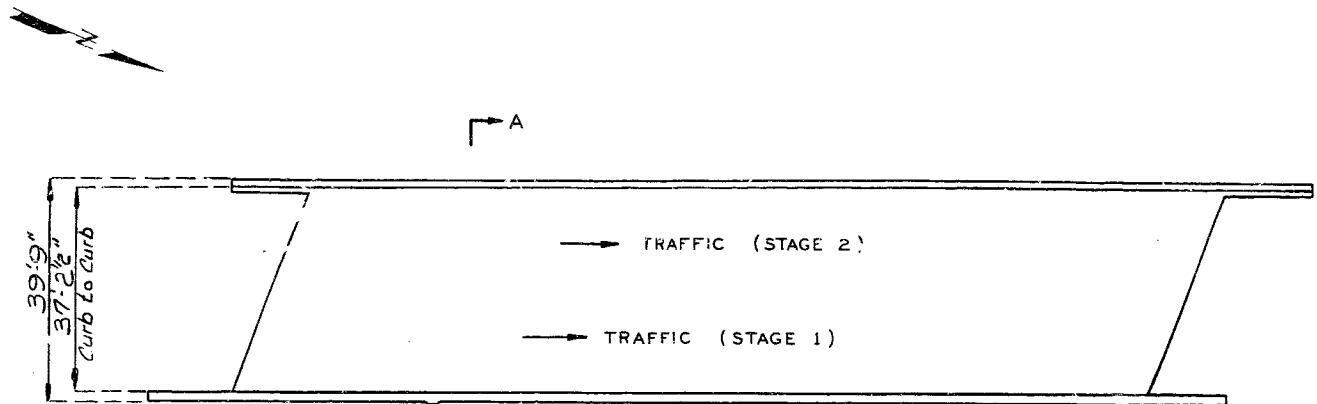
DETAILED MAY 1984
CHECKED MAY 1984

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

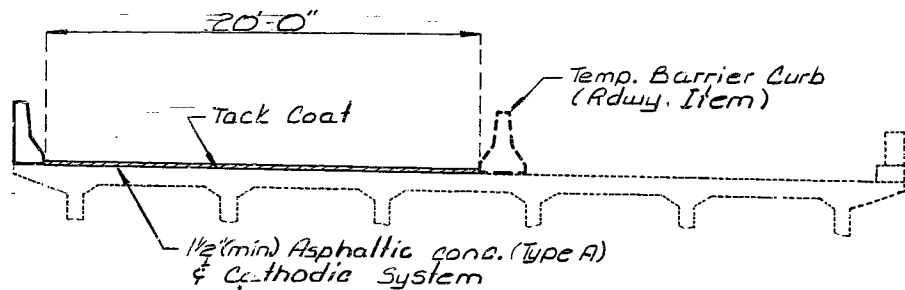
SHEET NO. 5 OF 5.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

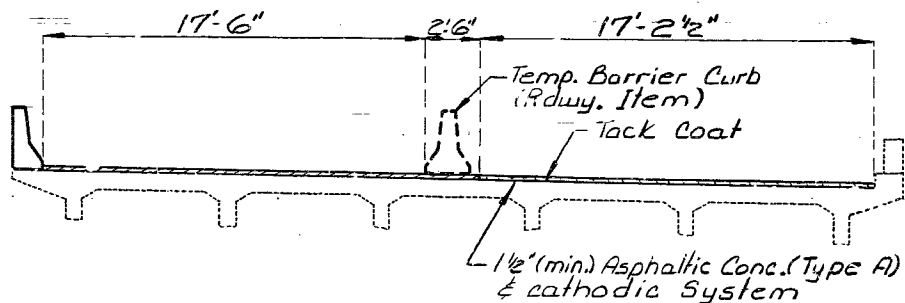
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	9	
SEC./SUR. 5 TWP. 49 N RGE. 33 W					



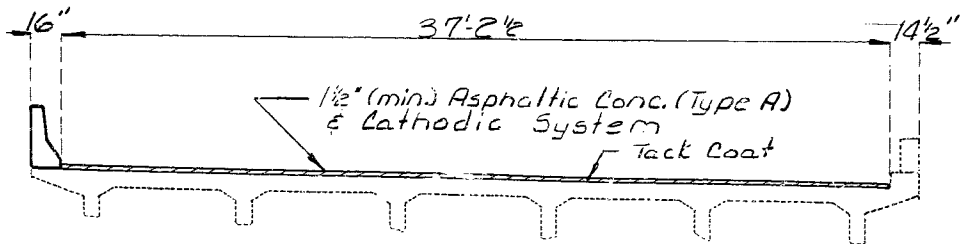
PLAN



SECTION A-A (STAGE 1)

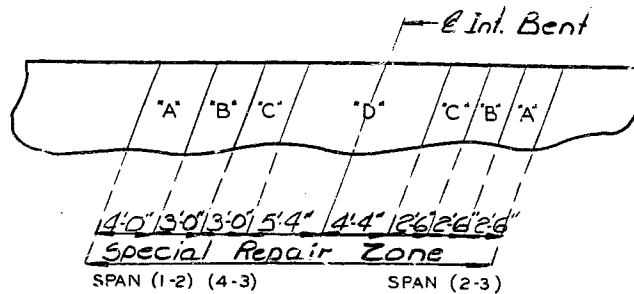


SECTION A-A (STAGE 2)



SECTION A-A (FINAL STAGE)

Note: For details of Cathodic Deck Protection see sheet No. 4.



PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES

Note: Care shall be exercised during deck repair to maintain structural integrity of bridge.
Sequence for Repair: Zone 'A', Zone 'B', then Zone 'C'.
Repair zones at one bent with the same letter designation may be repaired at the same time.
Any repair in the remainder of the bridge that is within 2'-6" of adjacent Zone 'A' shall be completed before removing old concrete in Zones 'A'.

BILL OF REINFORCING STEEL						
NO. REQD.	SIZE & MARK	LOCATION	SHAPE	NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT (LBS.)
210	5-R1	Barrier Curb	19s	2'-10"	2'-8"	584
210	5-R2		15s	2'-10"	2'-9"	602
16	5-R3		20	5'-0"	5'-0"	83
1	5-R4			18'-1"	18'-1"	19
2	5-R5			14'-9"	14'-9"	31
3	5-R6			18'-4"	18'-4"	57
1	5-R7			16'-7"	16'-7"	17
1	5-R8			20'-1"	20'-1"	21
2	5-R9			16'-9"	16'-9"	35
3	5-R10			20'-4"	20'-4"	64
1	5-R11			18'-7"	18'-7"	19
* 30	5-R12			9'-9"	9'-9"	305
7	5-R13			34'-8"	34'-8"	253
7	5-R14			47'-0"	47'-0"	343
7	5-R15	Barrier Curb	20	35'-2"	35'-2"	257

Notes: All reinforcement shall be epoxy coated.
Reinforcement shall meet specifications of C.R.S.I.

* 2 additional #5-R12 are included in the bar bill for testing.

Actual lengths are measured along centerline bar to the nearest inch. Nominal lengths are based on out to out dimensions.

s - stirrup bend

GENERAL NOTES:

Design Specifications: AASHTO-1977 & interims thru '83

Design Loading: HS20-44

Modified 24,000 # tandem axle

Design Unit Stresses:

Class B1 concrete (Safety Barrier Curb)

$f'_c = 4,000$ p.s.i.

Reinforcing Steel (Grade 60) $f_y = 60,000$ p.s.i.

All joint filler shall meet the requirement of Std. Spec. 1057.2.4 except as noted.

Minimum clearance to reinforcing steel shall be 1 1/2" unless otherwise shown.

Traffic over structure to be maintained during construction.

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Bars bordered in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars.

Holes for 3/4" anchor bar may be slanted slightly to miss slab reinforcement.

See Special Provisions for removal and storage of Handrail and Posts from west parapet.

Construction Clearance: Falsework over existing lanes shall be constructed with a minimum vertical clearance of 13'-6" from crown of existing lanes and a minimum lateral clearance of 32'-0" centered on existing lanes.

ESTIMATED QUANTITIES		
ITEM	QUANTITIES	TOTAL
Special Work	Lump Sum	1
Asphalt (Cement) (Asph. Conc.) (60-70 or AC-20) Ton		2.8
Mineral Aggregate (Asph. Conc.) (Type A Mix) Ton		56
Tack Coat	Gal.	40
Safety Barrier Curb	Lin. Ft.	197
Repairing Conc. Deck (Half Soling)	Sq. Ft.	2259
Full Depth Repair	Sq. Ft.	9
Deck overhang Repair	Lin. Ft.	18
Cathodic Deck Protection	Lump Sum	1

① Tack Coat shall be emulsified asphalt applied at a rate of .05 gallons per square yard.

B.M. No. 1 - "X" on south bolt, top hydrant, N.W. corner 12th and Charlotte St. Elev 823.18

BRIDGE: LANE "F" OVER 12TH STREET

STATE ROAD: INTERSTATE 35

IN KANSAS CITY

PROJECT NO. I-IR-35-1 (144) STA. 22 + 46.13

JOB NO. 4 - I-35-448

RTE. I-35

JACKSON

COUNTY

STD.

STD. 706.35

A-246 R

General Notes:

Design Specifications:

2002 - AASHTO 17th Edition
Bridge Deck Rating = 5

Design Unit Stresses:

Class B-1 Concrete (Curb Blockout)
Reinforcing Steel (Grade 60)

f'c = 4,000 psi
fy = 60,000 psi

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

Miscellaneous:

Roadway surfacing adjacent to bridge ends shall match new bridge overlay (Roadway Item).

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

In order to maintain grade and a minimum thickness of overlay as shown on plans it may be necessary to use additional quantities of overlay at various locations throughout the structure. The cost of furnishing and installing the overlay will be considered completely covered in the contract unit price, including all additional labor, materials or equipment for variations in thickness of overlay.

Traffic Handling:

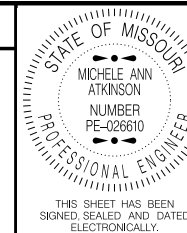
Structure to be closed during construction.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
U.I.P. AND REHAB EXISTING (47'- 67'-3" - 47') CONTINUOUS CONCRETE BOX GIRDER SPANS

SEC/SUR 5

TWP 49N

RGE 33W



DATE PREPARED
12/11/2012

ROUTE
1-70
DISTRICT
BR

STATE
MO

SHEET NO.
1

COUNTY
JACKSON

JOB NO.
J413014

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A02462

DESCRIPTION

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DATE

DATE

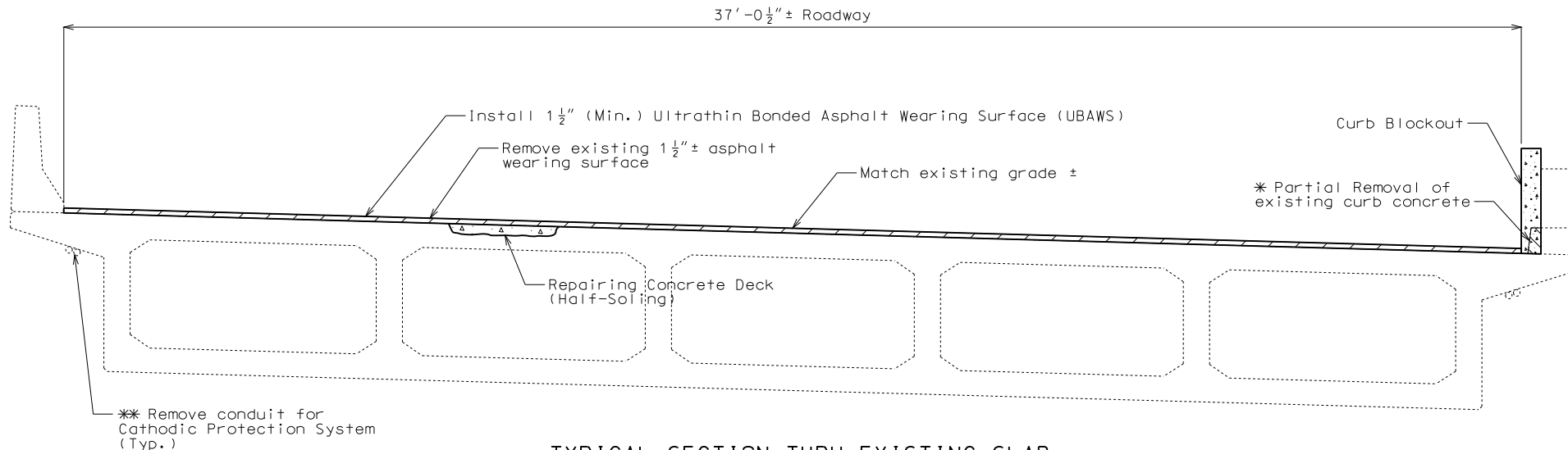
DATE

DATE

DATE

DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



TYPICAL SECTION THRU EXISTING SLAB

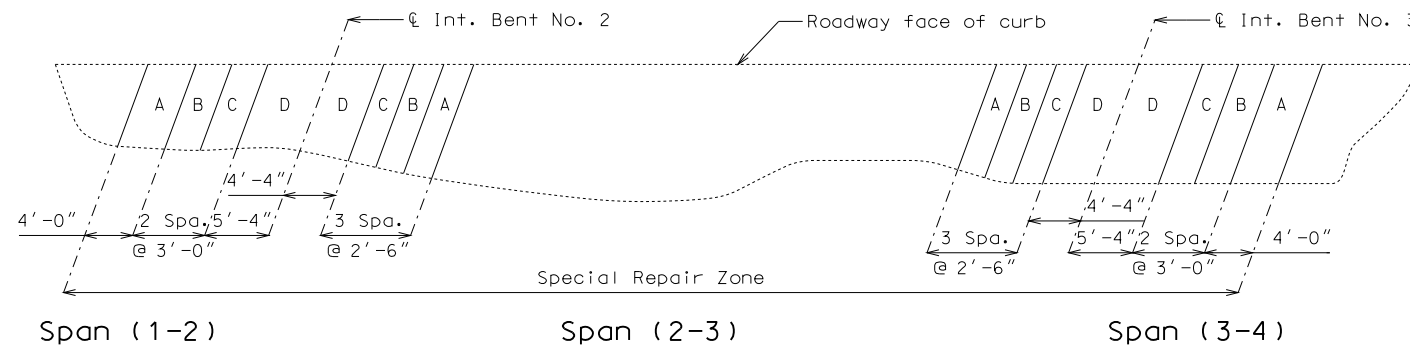
** Grout fill existing access holes.

Sequence of Construction:

- 1) Remove existing asphalt wearing surface.
- 2) Leave-in-place existing cathodic protection system in the top slab of box girder except in areas of new half-sole deck repairs.
- 3) Make half-sole deck repairs.
- 4) Install new asphalt wearing surface.

* Cost of partial removal of existing curb concrete will be considered completely covered by the contract unit price for Curb Blockout.

Estimated Quantities		
Item		Total
Removal of Asphalt Wearing Surface	sq. foot	6203
Removal of Cathodic Protection System Conduit	lump sum	1
Ultrathin Bonded Asphalt Wearing Surface Type A, B or C	sq. yard	689
Curb Blockout	linear foot	195
Repairing Concrete Deck (Half Soling)	sq. foot	1200



PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES

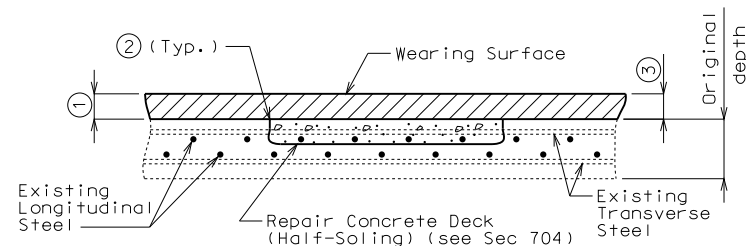
Notes:

Any half-soling required in the areas designated as special repair zones shall be completed in alphabetical sequence. Any repair in the remainder of the bridge that is adjacent to Zone A and not designated as a special repair zone shall be completed prior to work in Zone A.

Removal and repair shall be completed in one special repair zone and concrete shall have attained a compressive strength of 3200 psi before work can be started in the next special repair zone. Before placing concrete in areas adjacent to areas of subsequent repair, the concrete shall be separated with a material such as polyethylene sheets to aid in removal of old concrete.

Zones with the same letter designation may be repaired at the same time.

If any single repair area does not exceed 9 square feet in size and the total repair within a special repair zone does not exceed 27 square feet, the special repair zone requirement does not apply for that zone. Half-soling repair in the special repair zone, on either side of the intermediate bents, shall be to a depth that will not expose half the diameter of the longitudinal reinforcing bar. Full depth repair shall be made when removal of deteriorated concrete exposes half or more of the diameter of the longitudinal reinforcing bar.



HALF-SOLED REPAIR

- 1) Remove existing wearing surface.
- 2) One inch vertical side shall be established outside the deteriorated area. See Sec 704.
- 3) 1 1/2" (min.) UBAWS.

Detailed July 2012
Checked Aug. 2012

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 5

REPAIRS TO BRIDGE: RAMP I-670 EB
TO I-35 NB OVER 12TH STREET

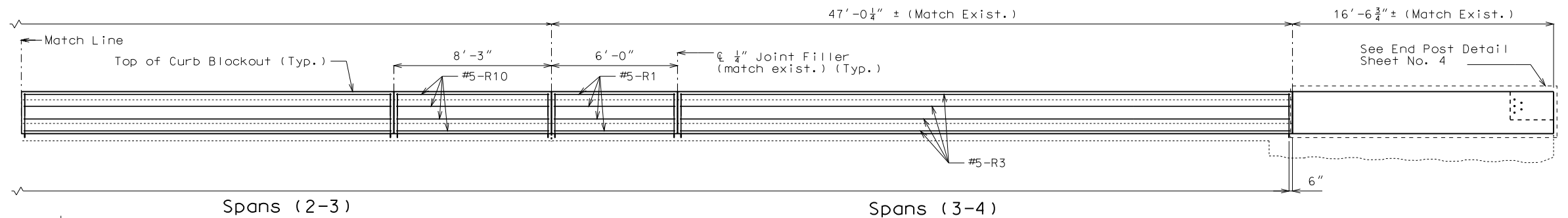
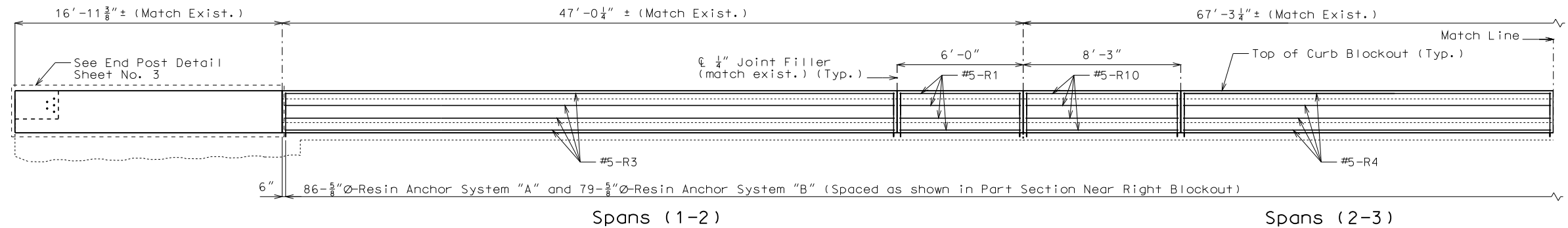
STATE ROAD FROM RTE. 71 TO THE STATE LINE

IN KANSAS CITY

STA. 22+46.13± (Match Existing)

STD. 617.10

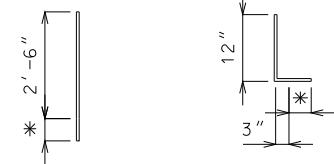
STD. 706.35



SECTION NEAR RIGHT CURB BLOCKOUT

Note: Longitudinal dimensions shown are along grade and are taken at top and ℓ of Parapet.

Bridge rail not shown, for clarity.

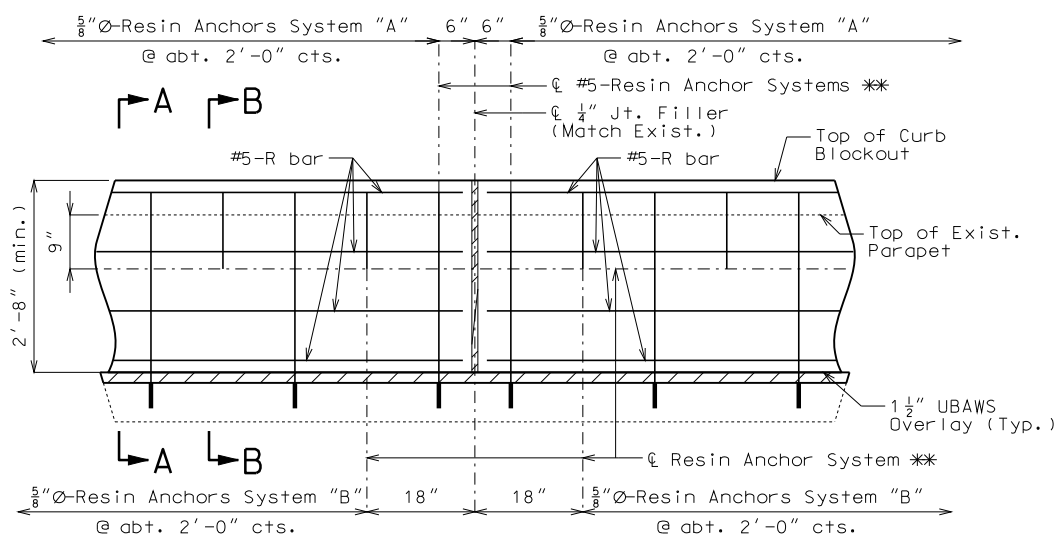


RESIN ANCHOR SYSTEM "A" (127 req'd) (Install in slab)

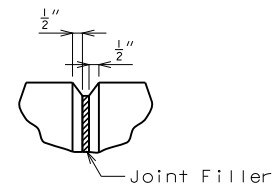
RESIN ANCHOR SYSTEM "B" (79 req'd) (Install in parapet)

* Use manufacturer's embedment length. (5" minimum embedment)

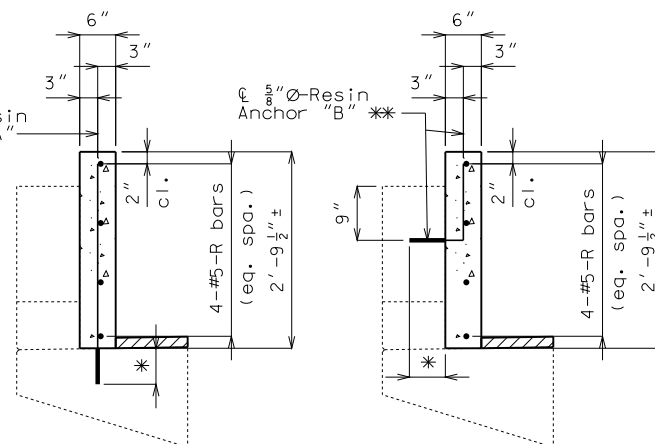
DETAILS OF RESIN ANCHORS



PART SECTION NEAR RIGHT CURB BLOCKOUT



FILLED JOINT DETAIL



SECTION A-A

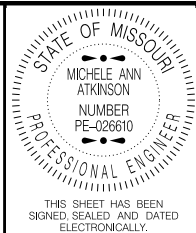
SECTION B-B

DETAILS OF RIGHT CURB BLOCKOUT

Note: This drawing is not to scale. Follow dimensions.

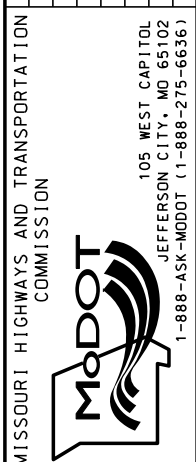
Sheet No. 2 of 5

Detailed July 2012
Checked Aug. 2012



DATE PREPARED 12/11/2012	
ROUTE 1-70	STATE MO
DISTRICT BR	SHEET NO. 2
COUNTY JACKSON	
JOB NO. J413014	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A02462	

DESCRIPTION	DATE



Notes:
Concrete in curb blockout shall be Class B-1 with $f'c = 4000$ psi.

Measurement of curb blockout is to the nearest linear foot, measured at the top and ℓ of parapet from end of wing to end of wing. (Match existing curb and parapet)

All exposed edges of curb blockout shall have 1/2" radius or 3/8" bevel unless otherwise shown.

Payment for concrete, reinforcing steel, resin anchors, and any other work incidental to the curb blockout, complete in place, will be included in the contract unit price for Curb Blockout per linear foot.

Cost of any concrete parapet repair will be included in the contract unit price for Curb Blockout.

All reinforcement shall be epoxy coated.

** Shift resin anchors where necessary to clear existing anchor bolts for bridge rail, miss curb outlets (if present) and clear existing reinforcement.

Use a minimum lap of 2'-11" for #5 horizontal curb blockout bars.

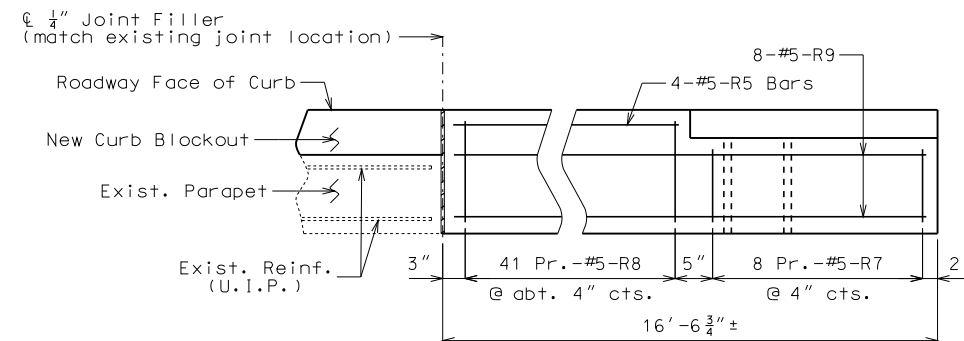
Concrete traffic barrier delineators shall be placed on top of the curb blockout similarly as shown on Missouri Standard Plans 617.10 and in accordance with Sec 617. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for "Curb Blockout".

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

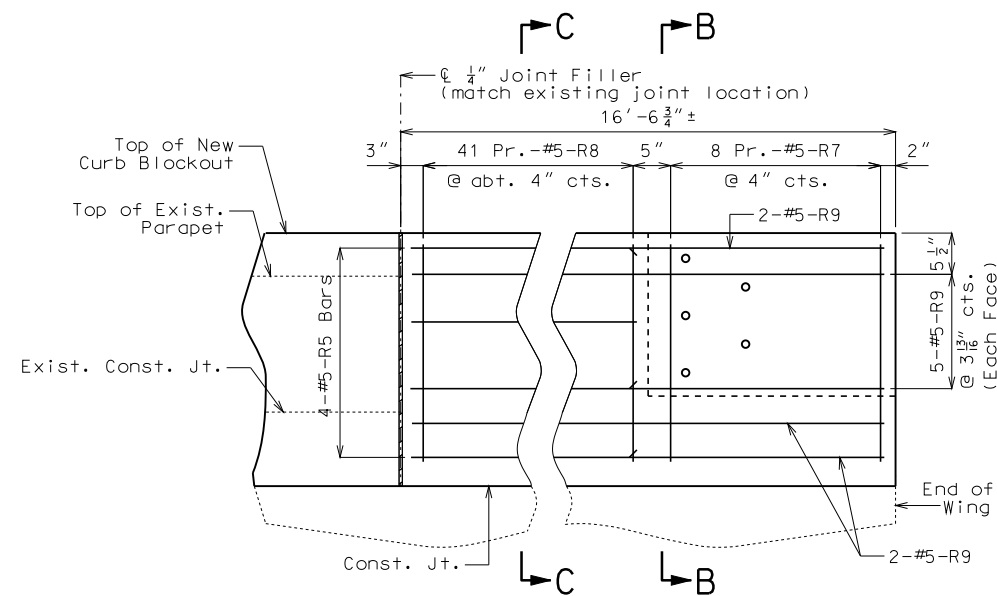
The minimum embedment depth in concrete with $f'c = 4,000$ psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the 5/8" Ø threaded rod.

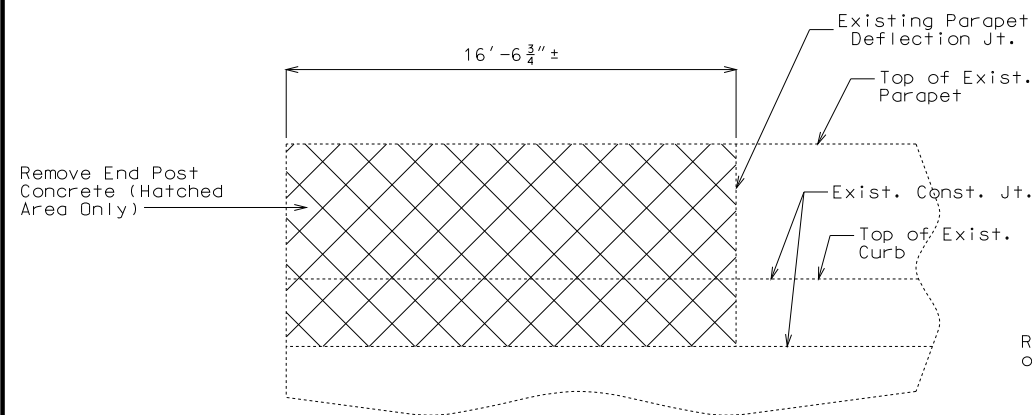
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PLAN SHOWING END POST REINFORCEMENT



ELEVATION SHOWING END POST REINFORCEMENT

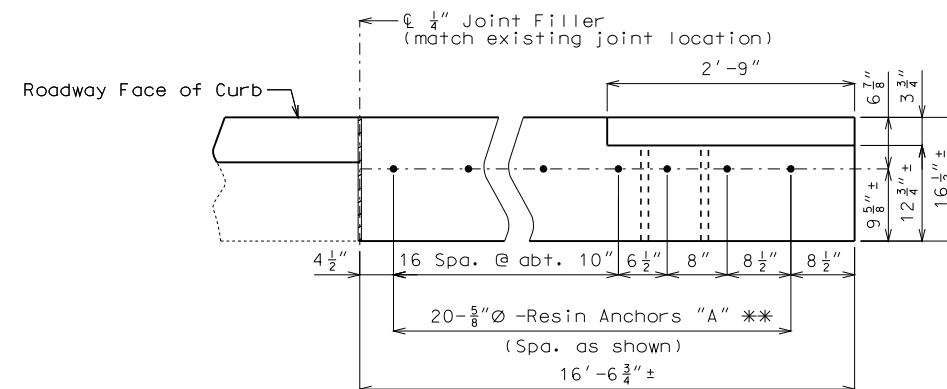


ELEVATION OF EXISTING END POST SHOWING CONCRETE REMOVAL

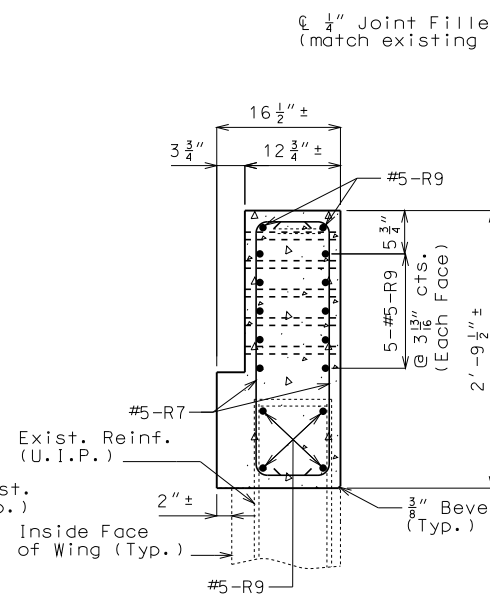
Note:

Cost of removing existing end posts will be considered completely covered by the contract unit price for Curb Blockout (linear foot).

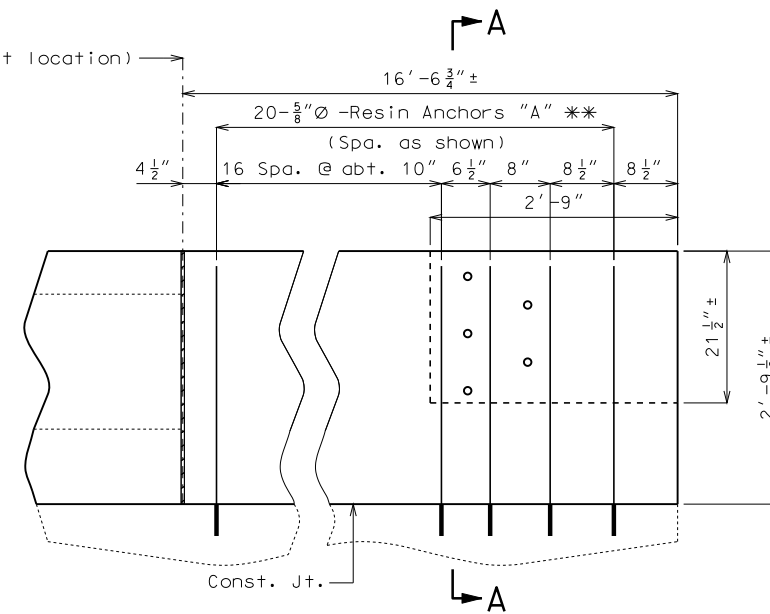
Notes:
For Details of Resin Anchors, see Sheet No. 2.
* Shift resin anchors where necessary to clear exist. reinforcement.
Bridge rail not shown, for clarity.



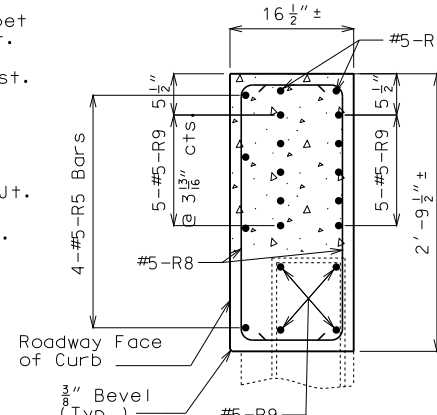
PLAN SHOWING END POST RESIN ANCHOR SYSTEMS AND DIMENSIONS



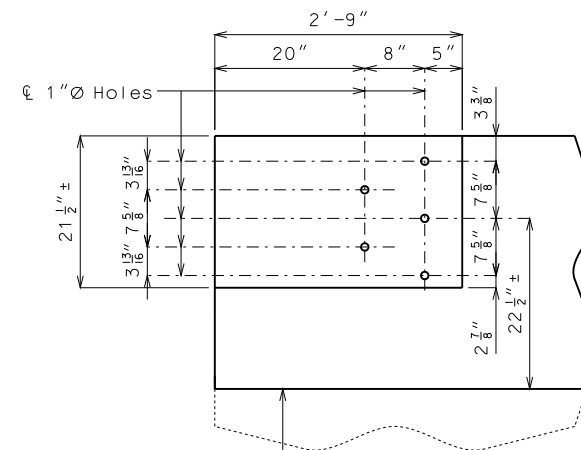
SECTION B-B



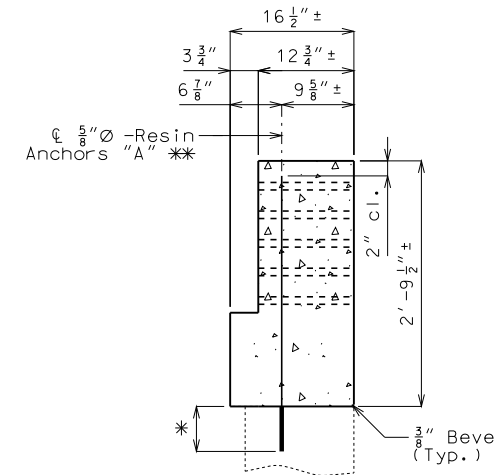
ELEVATION SHOWING END POST RESIN ANCHOR SYSTEMS AND DIMENSIONS



SECTION C-C



DETAILS OF GUARD RAIL ATTACHMENT



SECTION A-A

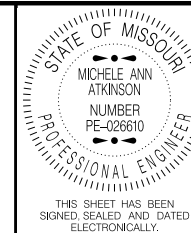
* Manufacturer's recommended embedment length. (5" minimum embedment)

DETAILS OF RIGHT END POST AT END BENT NO. 4

Detailed Aug. 2012
Checked Aug. 2012

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 5



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 12/11/2012

ROUTE 1-70 STATE MO

DISTRICT BR SHEET NO. 4

COUNTY JACKSON

JOB NO. J413014

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A02462

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

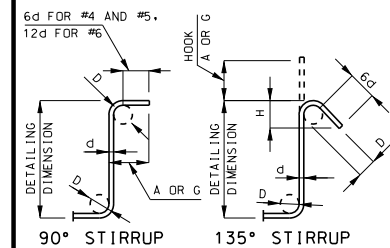
105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

REV.

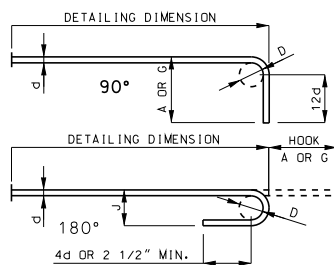
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

BILL OF REINFORCING STEEL

[illegible]

STIRRUP HOOK DIMENSIONS				
GRADES 40 - 50 - 60 KSI				
BAR SIZE	D (IN.)	90° HOOK	135° HOOK	APPROX. H
		H O O K A R G	H O O K A R G	
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

NOTE: UNLESS OTHERWISE NOTED DIAMETER
"D" IS THE SAME FOR ALL BENDS AND HOOKS
ON A BAR.

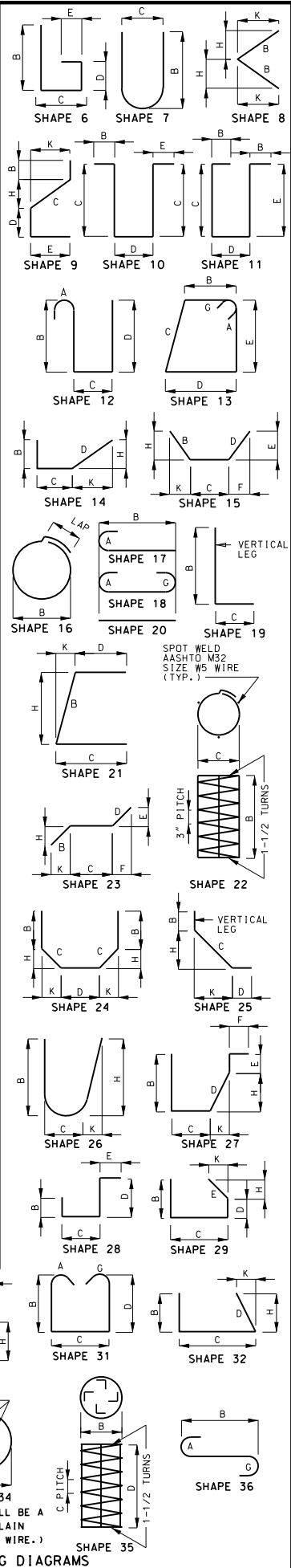


END HOOK DIMENSIONS				
BAR SIZE	D (IN.)	ALL GRADES		
		180° HOOKS		90° HOOKS
		A OR G	J	A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"

TWO ADDITIONAL #5-R5 ARE INCLUDED IN THE BAR BILL FOR TESTING.

NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME
PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE
AND THE FOLLOWING INCH.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND
ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO
BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE
SPICES OR SPACERS.
REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.

BILL OF REINFORCING STEEL

[illegible]Detailed Aug. 2012
Checked Aug. 2012

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 5



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
12/11/2012

ROUTE	STATE
I-70	MO

DISTRICT	SHEET NO.
BR	5

COUNTY
JACKSON

JOB NO.
J4I3014

CONTRACT ID.

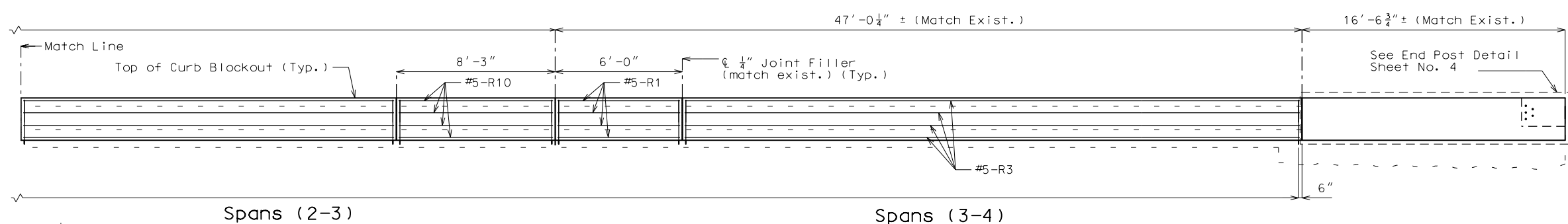
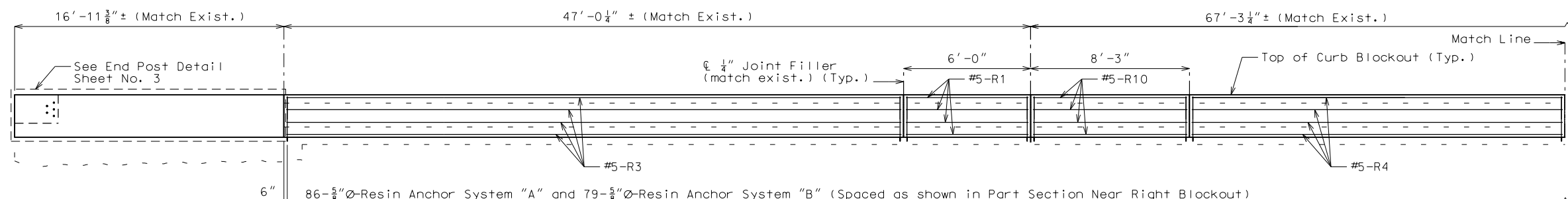
PROJECT NO.

BRIDGE NO.
A02462

[illegible][illegible][illegible]

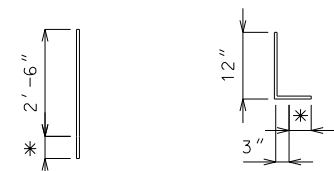
DESCR						

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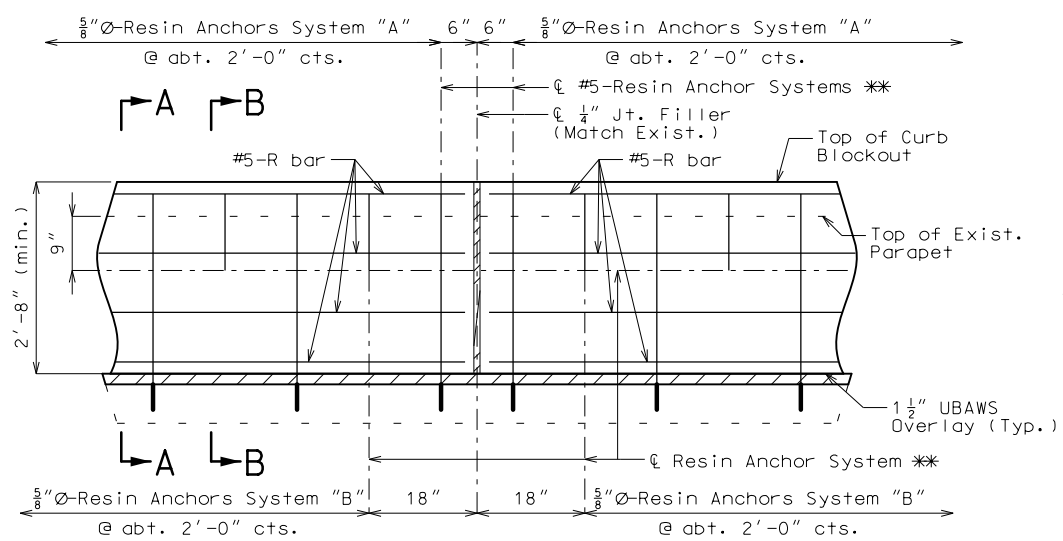
SECTION NEAR RIGHT CURB BLOCKOUT

Note: Longitudinal dimensions shown are along grade and are taken at top and \mathcal{C} of Parapet.
Bridge rail not shown, for clarity.

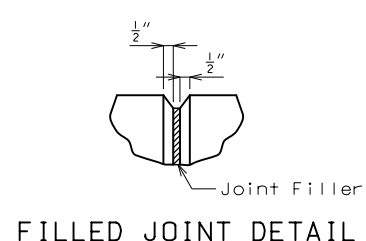


RESIN ANCHOR SYSTEM "A" (127 req'd) (Install in slab)
RESIN ANCHOR SYSTEM "B" (79 req'd) (Install in parapet)
* Use manufacturer's embedment length. (5" minimum embedment)

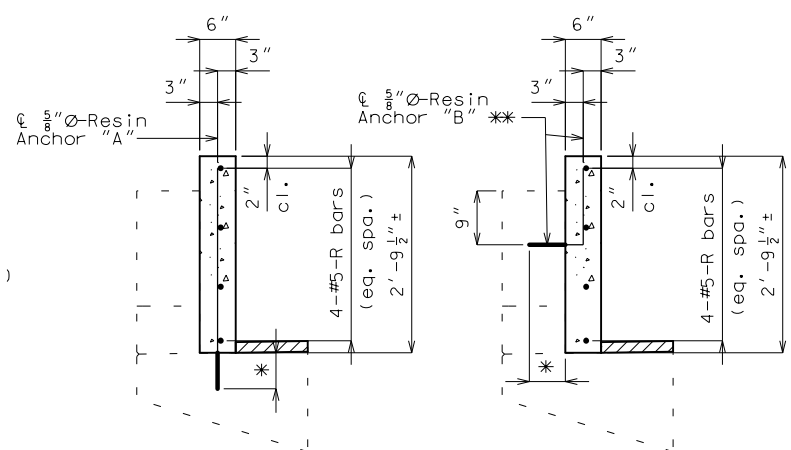
DETAILS OF RESIN ANCHORS



PART SECTION NEAR RIGHT CURB BLOCKOUT



FILLED JOINT DETAIL



SECTION A-A

SECTION B-B

DETAILS OF RIGHT CURB BLOCKOUT

Notes:
Concrete in curb blockout shall be Class B-1 with $f'c = 4000$ psi.
Measurement of curb blockout is to the nearest linear foot, measured at the top and \mathcal{C} of parapet from end of wing to end of wing. (Match existing curb and parapet)
All exposed edges of curb blockout shall have $\frac{1}{2}$ " radius or $\frac{3}{8}$ " bevel unless otherwise shown.
Payment for concrete, reinforcing steel, resin anchors, and any other work incidental to the curb blockout, complete in place, will be included in the contract unit price for Curb Blockout per linear foot.
Cost of any concrete parapet repair will be included in the contract unit price for Curb Blockout.
All reinforcement shall be epoxy coated.
** Shift resin anchors where necessary to clear existing anchor bolts for bridge rail, miss curb outlets (if present) and clear existing reinforcement.
Use a minimum lap of 2'-11" for #5 horizontal curb blockout bars.
Concrete traffic barrier delineators shall be placed on top of the curb blockout similarly as shown on Missouri Standard Plans 617.10 and in accordance with Sec 617. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for "Curb Blockout".
The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.
The minimum embedment depth in concrete with $f'c = 4,000$ psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".
An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the $\frac{5}{8}$ " \mathcal{C} threaded rod.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 5/13/2015

ROUTE: I-70 STATE: MO

DISTRICT: BR SHEET NO.: 2

COUNTY: JACKSON

JOB NO.: J413014

CONTRACT ID.: 130222-C05

PROJECT NO.: I-35-1(281)

BRIDGE NO.: A02462

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

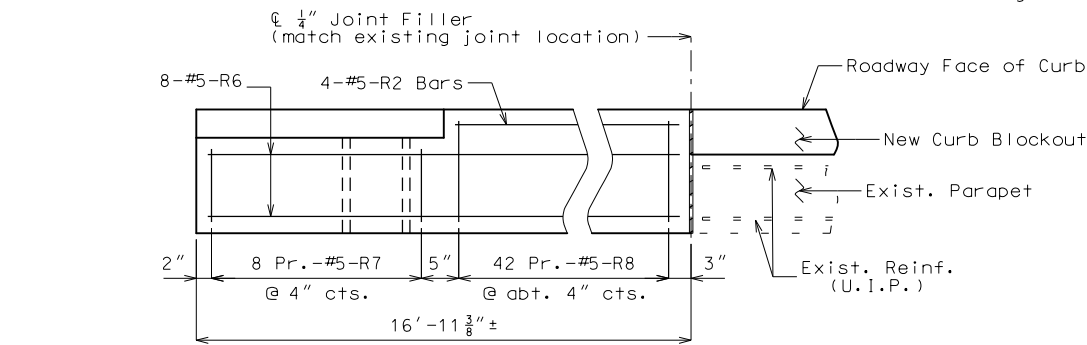
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

DESCRIPTION

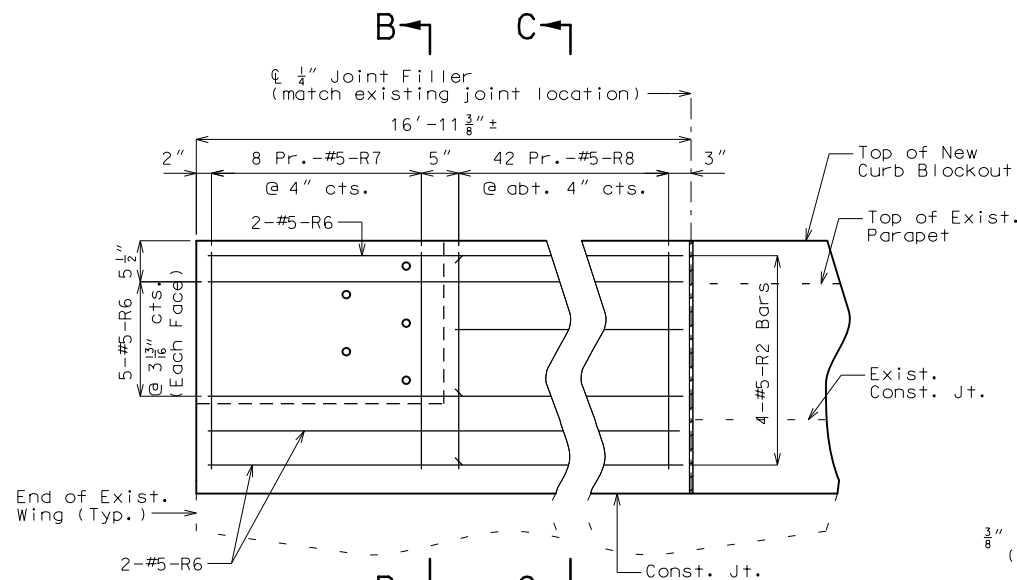
DATE

FINAL PLANS

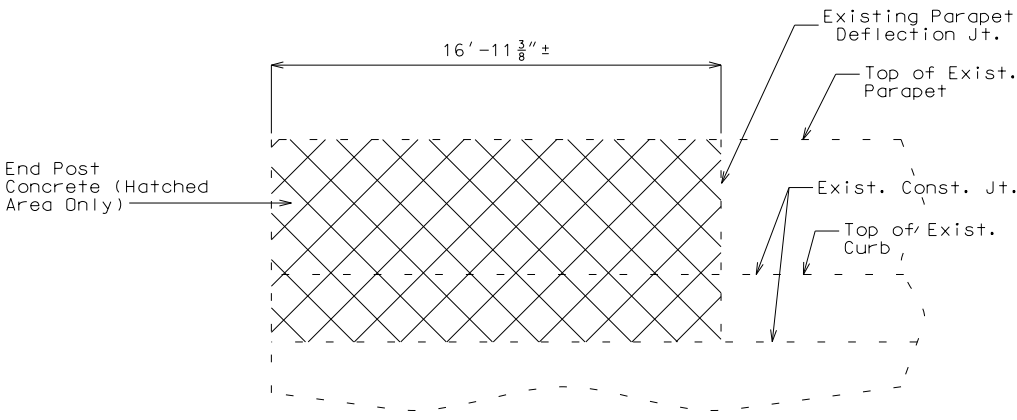
Notes:
For Details of Resin Anchors, see Sheet No. 2.
** Shift resin anchors where necessary to clear exist.
reinforcement.
Bridge rail not shown, for clarity.



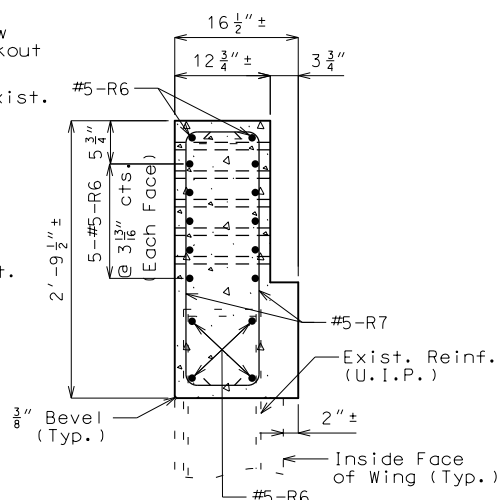
PLAN SHOWING END POST REINFORCEMENT



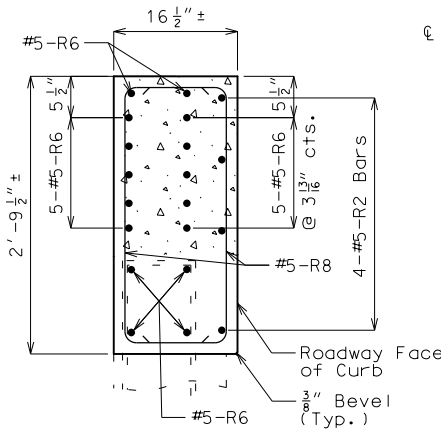
ELEVATION SHOWING END POST REINFORCEMENT



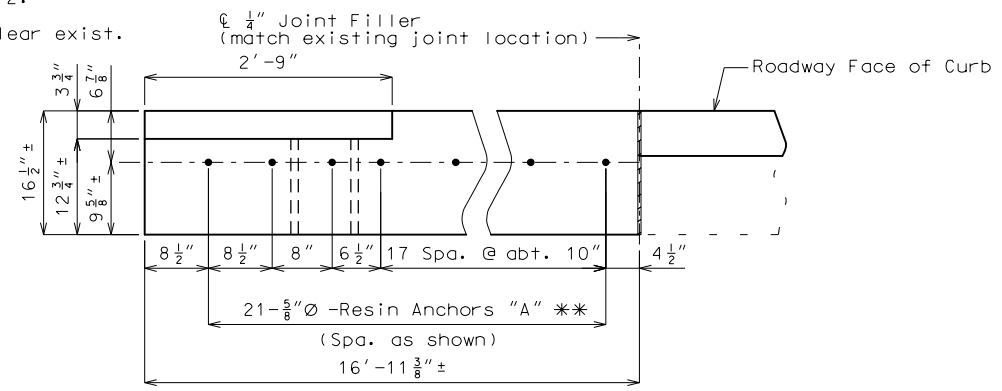
Note:
Cost of removing existing end posts will be considered completely covered by the contract unit price for Curb Blockout (linear foot).



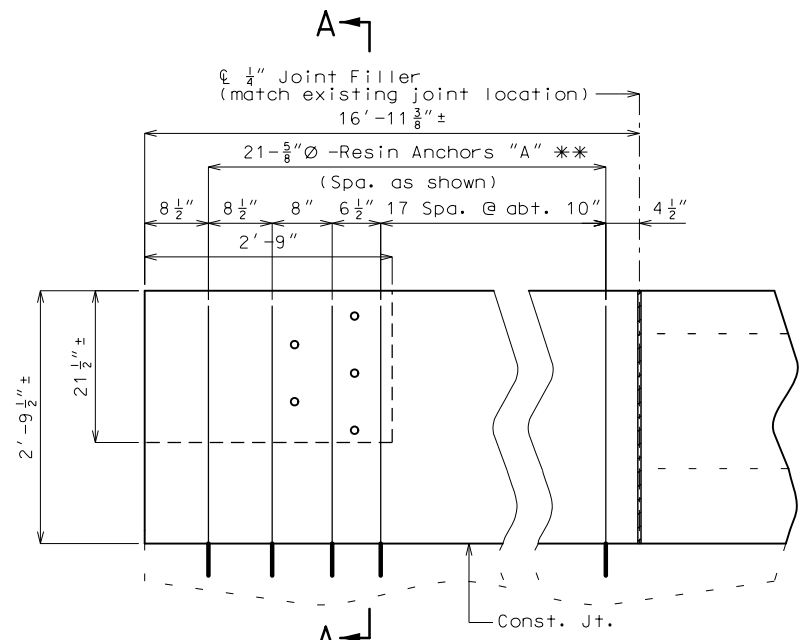
SECTION B-B



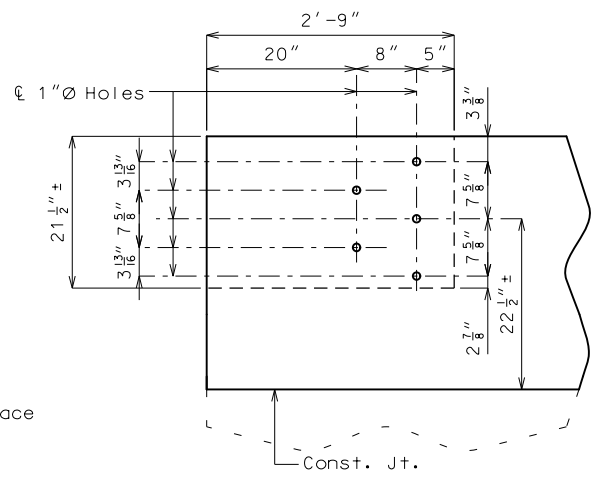
SECTION C-C



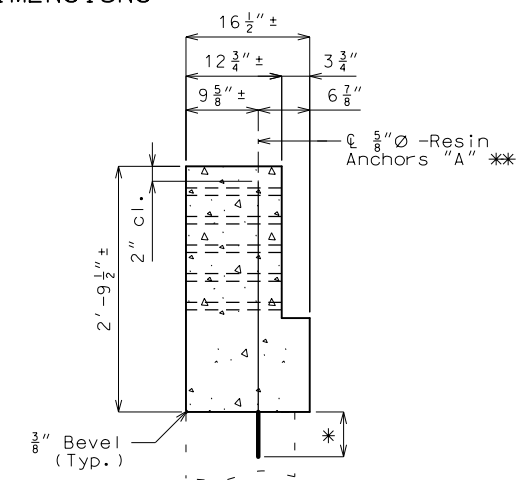
PLAN SHOWING END POST RESIN ANCHOR SYSTEMS AND DIMENSIONS



ELEVATION SHOWING END POST RESIN ANCHOR SYSTEMS AND DIMENSIONS



DETAILS OF GUARD RAIL ATTACHMENT



SECTION A-A

* Manufacturer's recommended embedment length. (5" minimum embedment)

DETAILS OF RIGHT END POST AT END BENT NO. 1

THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

DATE PREPARED: 5/13/2015

ROUTE: I-70 STATE: MO

DISTRICT: BR SHEET NO.: 3

COUNTY: JACKSON

JOB NO.: J413014

CONTRACT ID.: 130222-C05

PROJECT NO.: 1-35-1(281)

BRIDGE NO.: A02462

DESCRIPTION

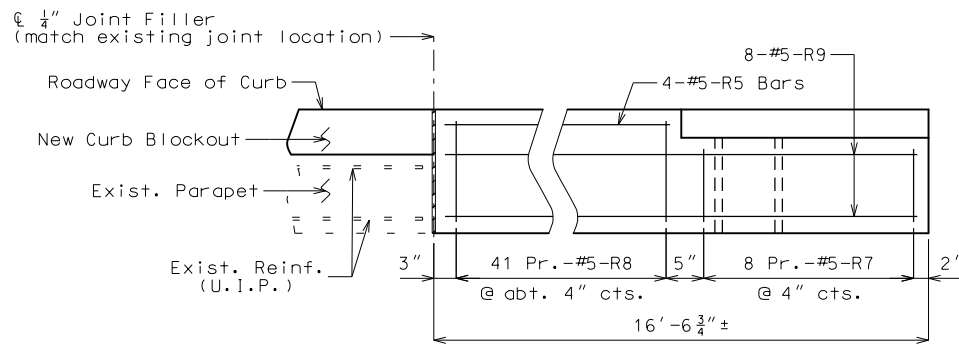
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

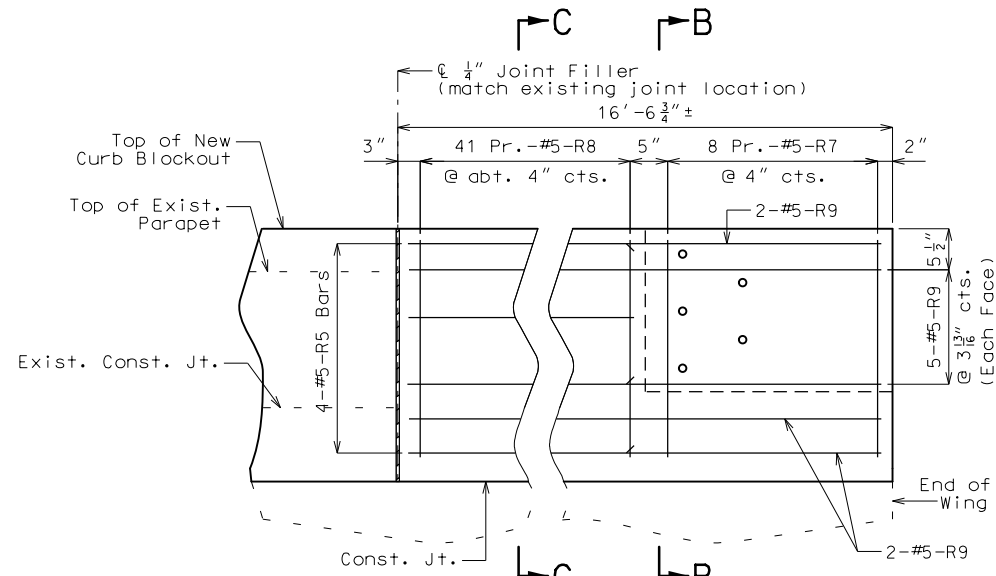
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

MODOT

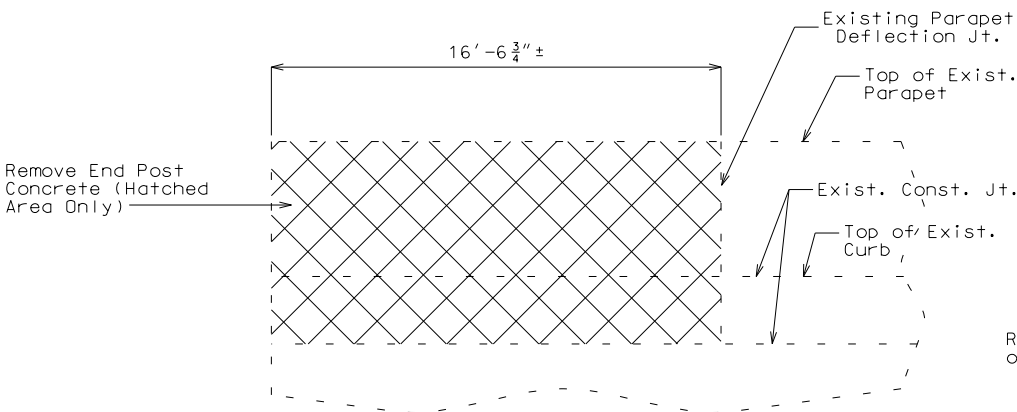
FINAL PLANS



PLAN SHOWING END POST REINFORCEMENT



ELEVATION SHOWING END POST REINFORCEMENT



ELEVATION OF EXISTING END POST SHOWING CONCRETE REMOVAL

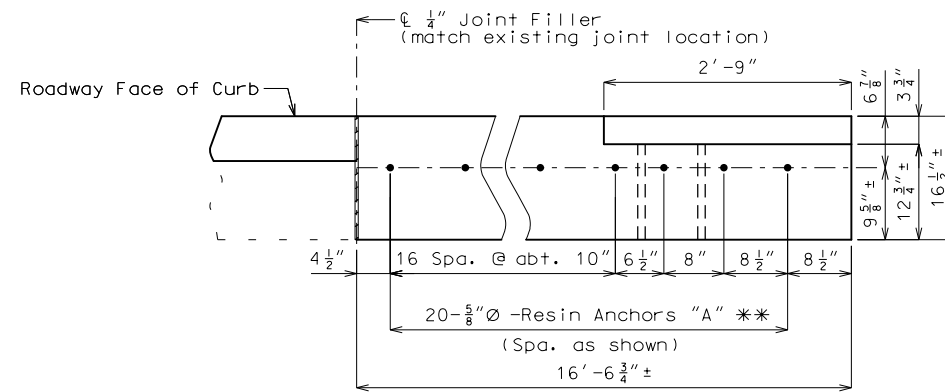
Note:

Cost of removing existing end posts will be considered completely covered by the contract unit price for Curb Blockout (linear foot).

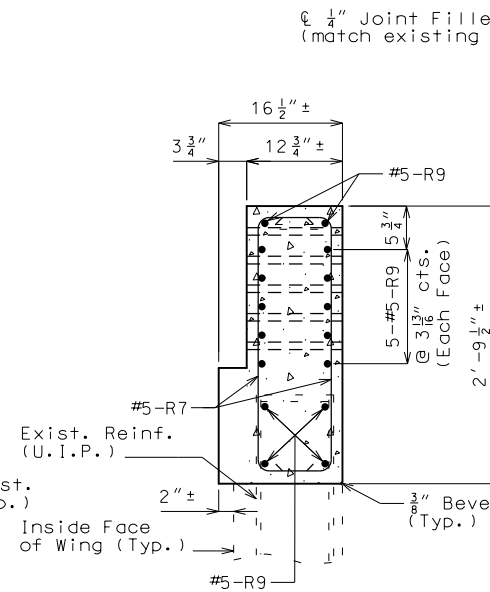
Notes:
For Details of Resin Anchors, see Sheet No. 2.

** Shift resin anchors where necessary to clear exist. reinforcement.

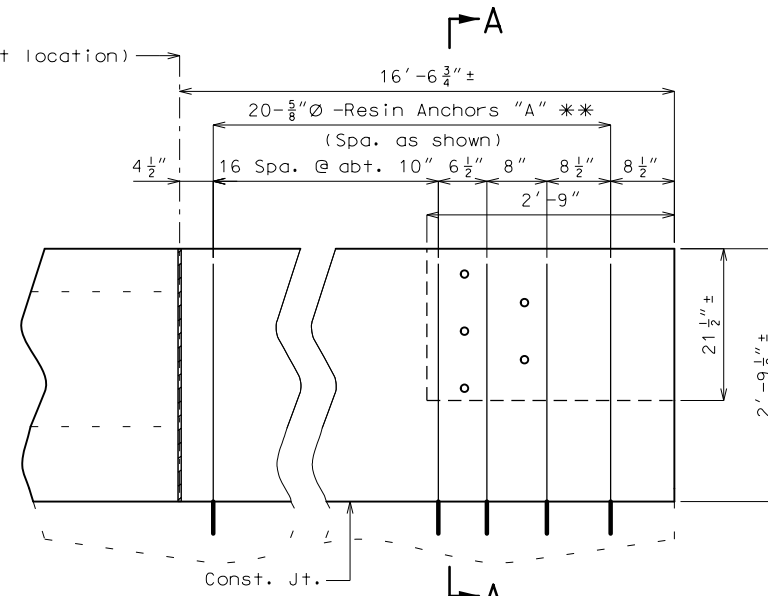
Bridge rail not shown, for clarity.



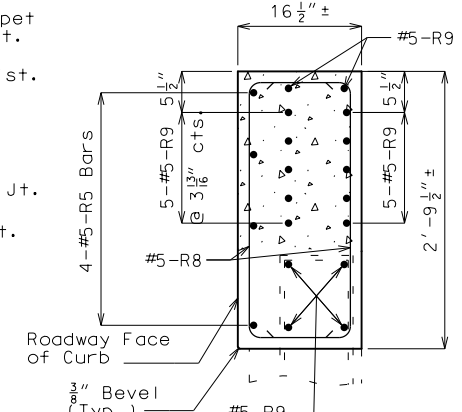
PLAN SHOWING END POST RESIN ANCHOR SYSTEMS AND DIMENSIONS



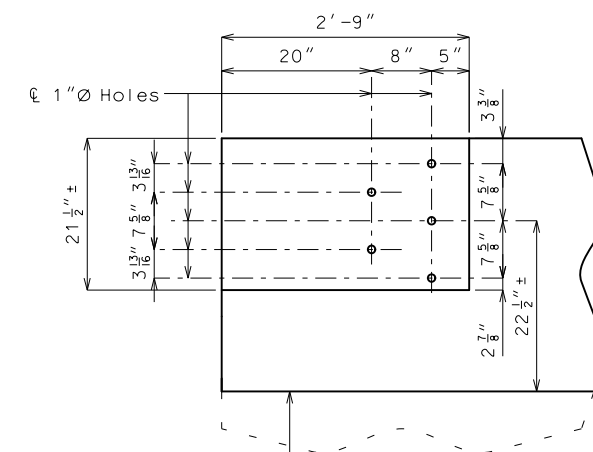
SECTION B-B



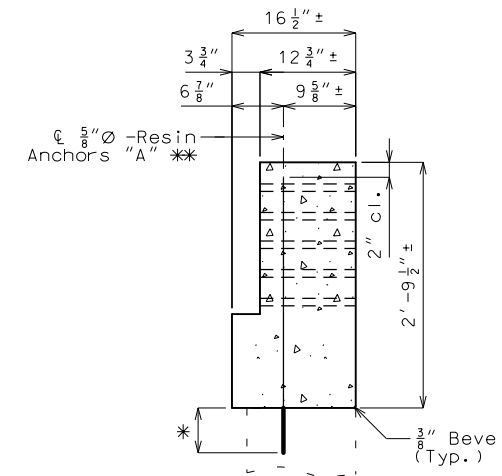
ELEVATION SHOWING END POST RESIN ANCHOR SYSTEMS AND DIMENSIONS



SECTION C-C



DETAILS OF GUARD RAIL ATTACHMENT



SECTION A-A

* Manufacturer's recommended embedment length. (5" minimum embedment)

DETAILS OF RIGHT END POST AT END BENT NO. 4

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
5/13/2015

ROUTE
I-70

STATE
MO

DISTRICT
BR

SHEET NO.
4

COUNTY
JACKSON

JOB NO.
J413014

CONTRACT ID.
130222-C05

PROJECT NO.
I-35-1(281)

BRIDGE NO.
A02462

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

Detailed Aug. 2012
Checked Aug. 2012

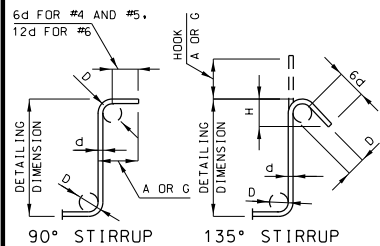
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 5

v:\contract information archive\kansas city\truman road (ccj)\130222-c05\as built final plans\130222-c05-j4i2371-j4i3012-j4i3014_final plans sheets\bridge plans\j4i3014\A02462\B_A02462_004_J4i3014_Details2FP.dgn 7:52:44 AM 5/13/2015

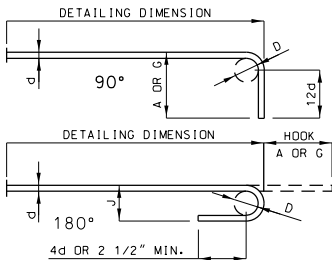
BILL OF REINFORCING STEEL

NO.	REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS												NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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STIRRUP HOOK DIMENSIONS				
GRADES 40 - 50 - 60 KSI				
BAR SIZE	D (IN.)	90° HOOK A OR G	135° HOOK A OR G	APPROX. H
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

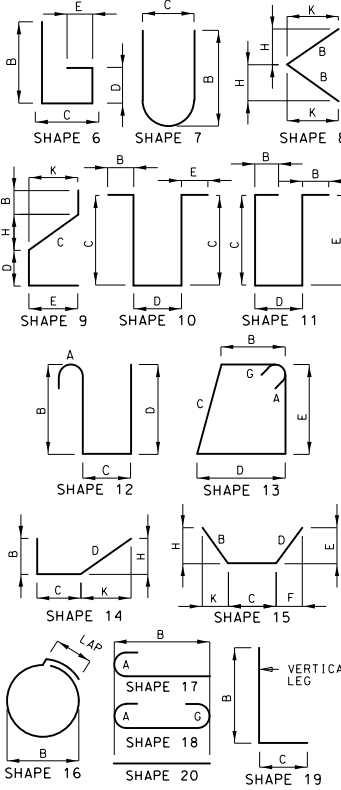
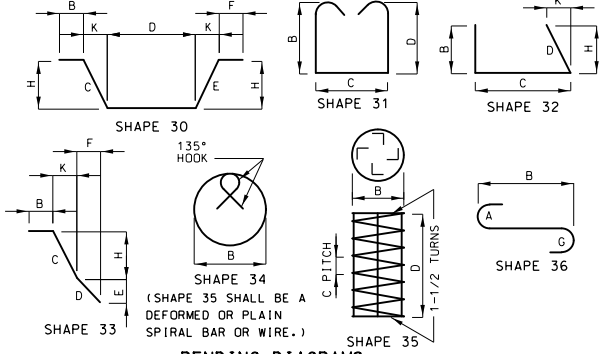
NOTE: UNLESS OTHERWISE NOTED DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



END HOOK DIMENSIONS				
ALL GRADES				
BAR SIZE	D (IN.)	180° HOOKS A OR G	J	90° HOOKS A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"

TWO ADDITIONAL #5-R5 ARE INCLUDED IN THE BAR BILL FOR TESTING.

NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
REINFORCING STEEL (GRADE 60) F_y = 60,000 PSI.



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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS



Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

May 2, 2024
4:13:12pm

COUNTY : JACKSON BRIDGE : A0246 2 REVIEW STATUS : APPROVED NBI STATUS : P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 3/7/2024 SUBMITTAL YEAR : 2023

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	KC	5B	Route Signing Prefix	US
3	County	JACKSON	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	216	5D	Route Number	00071
27	Year Built	1960	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	1984	7	Facility Carried	US 71 N
42A	Type of Service On	OVERPASS	12	Base Hwy. Network	YES
21	Structure Maintenance	STATE HIGHWAY AGENCY	13A	LRS Inventory Route No.	0000002029
22	Structure Owner	STATE HIGHWAY AGENCY	13B	Subroute No.	00
33	Br. Median Code	NO MEDIAN	20	Toll Status	ON FREE ROAD
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP	26	Functional Classification	12-UR PRNCPL ARTERIAL-OTH
101	Parallel Struc Desg	RIGHT	28A	Lanes on Structure	02
103	Temporary Structure	NOT TEMPORARY	100	STRAHNET Designation	RTE NOT A DEFENSE HWY
112	NBIS Bridge Length	YES	104	National Highway System	ON NHS
			105	Federal Lands Highway	NOT APPLICABLE
			110	Designated Nat. Network	YES
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	KANSAS CITY CITY	29	AADT	35600
	Code	38000	30	AADT Year	2023
9	Location	S 5 T 49 N R 33 W	102	Direction of Traffic	1-WAY TRAFFIC
11	Milepoint	198.66 miles	109	AADT Truck Percent	6%
16	Latitude	39 D 5 M 58 S	114	Future AADT	48060
17	Longitude	94 D 34 M 20 S	115	Future AADT Year	2043
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	CST E 12TH ST	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	HIGHWAY	19	By pass Detour Length	1.86 miles
28B	Lanes Under Structure	02	32	Approach Roadway Width	36 Ft. 1 In.
54A	Vert. Clearance Ref.	HIGHWAY	34	Skew	20.00 Degrees
54B	Vert. Clearance	13 Ft. 8 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	HIGHWAY	47	Total Horiz. Clear	37 Ft. 1 In.
55B	Rt. Lat Clearance	12 Ft. 6 In.	48	Maximum Span Length	66 Ft. 11 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	164 Ft. 1 In.
38	Navigation Control	N/A	50A	Left Curb/Sidewalk Width	0 Ft. 0 In.
39	Nav Vertical Clear	0 Ft. 0 In.	50B	Right Curb/Sidewalk Width	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.	51	Curb to Curb Br. Width	37 Ft. 1 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	39 Ft. 8 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design_No = A0246



Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

May 2, 2024
4:13:12pm

COUNTY : JACKSON BRIDGE : A0246 2 REVIEW STATUS : APPROVED NBI STATUS : P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 3/7/2024 SUBMITTAL YEAR : 2023

LOAD RATING AND POSTING INFORMATION			MATERIAL/CONSTRUCTION INFORMATION		
31	Design Load	HS 20	43A	Main Struc. Mat type	CONCRETE CONTINUOUS
41	Structure Status	A - OPEN NO RESTRICTIONS	43B	Main struc Constr. Type	BOX BEAM OR GIRDERS- SING
63	Oper. Rating Meth.	LOAD FACTOR	45	# of Main Spans	3
64	Operating Rating	75 Tons.	44A	Appr Struc. Mat type	
65	Inventory Rating Meth	LOAD FACTOR	44B	Appr Struc. Cnstr. type	
66	Inventory Rating	46 Tons.	46	# of Approach Span	0
70	Bridge Posting Code	=>LEGAL LOADS	107	Deck Mat/Constr.	1 CONCRETE CIP
PROPOSED IMPROVEMENT INFORMATION			108A	Wear Surf Mat/Constr.	6 BITUMINOUS
Sufficiency Rating 76.7 Percent			108B	Membrane Mat/Constr.	0 NONE
Deficiency Rating FUNCTIONAL			108C	Deck Protect Mat/Constr.	0 NONE
Funding Eligibility PARTIAL			CONDITION RATING INFORMATION		
75A	Proposed Work	REHAB-GENERAL DETERIORAT	58	Deck Cond. Rating	5
75B	Work Done By	Contract	59	Superstructure Cond. Rating	5
76	New Struc Length	0 Ft. 0 In.	60	Substructure Cond. Rating	7
94	Struc Improve Cost	\$ 817,000	61	Channel /Channel Protection Cond. Rating	N
95	Roadway Improve Cost	\$ 82,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 1,226,000	INSPECTION INFORMATION		
97	Year of Cost Estimates	2024	90	Gen. Insp Date	9 / 23
APPRAISAL RATING INFORMATION			91	Gen. Insp. Frequency	24 Months
36A	Br. Rail App. Rating	DOES NOT MEET ACCEPT STND	92A	Frac. Critical Inspection	N Months
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND	93A	Frac. Critical Insp. Date	
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND	92B	Underwater Inspection	N Months
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND	93B	Underwater Insp. Date	
67	Struc Eval App. Rating	5	92C	Special Inspection	N Months
68	Deck Geometry App. Rating	5	93C	Special Inspection Date	
69	Underclearance App. Rating	3	BORDER BRIDGE INFORMATION		
71	Waterway Adeq. App. Rating	N	98	Neighboring State Code	
72	Approach Road App. Rating	8	98B	Neighboring State % Respon	
113	Scour Assess App. Rating	N	99	Neighboring State Struc. No.	
APPROVED POSTING INFORMATION			FIELD POSTING INFORMATION		
Approved Posting Category S-1			Field Posting Category S-1		
Ton1 Ton2 Ton3			Ton1 Ton2 Ton3		
Tonnage Values for Posting Sign			Tonnage Values for Posting Sign		
General Text for Posting Sign			General Text for Posting Sign		
NO POSTING REQUIRED			NO POSTING REQUIRED		

Design_No = A0246



Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

May 2, 2024
4:13:12pm

COUNTY : JACKSON BRIDGE : A0246 2 REVIEW STATUS : APPROVED NBI STATUS : P
RECORD TYPE : ROUTE 'UNDER' STRUCT RUN DATE : 3/7/2024 SUBMITTAL YEAR : 2023

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE 'UNDER' STRUCT Code : 2
2	District	KC	5B	Route Signing Prefix	CST
3	County	JACKSON	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	216	5D	Route Number	00000
27	Year Built	1960	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	US 71 N
42A	Type of Service On	OVERPASS	12	Base Hwy. Network	
21	Structure Maintenance		13A	LRS Inventory Route No.	
22	Structure Owner		13B	Subroute No.	
33	Br. Median Code		20	Toll Status	ON FREE ROAD
37	Historical Significance		26	Functional Classification	17-URBAN COLLECTOR
101	Parallel Struc Desg	RIGHT	28A	Lanes on Structure	02
103	Temporary Structure	NOT TEMPORARY	100	STRAHNET Designation	RTE NOT A DEFENSE HWY
112	NBIS Bridge Length		104	National Highway System	NOT ON NHS
			105	Federal Lands Highway	
			110	Designated Nat. Network	NO
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	KANSAS CITY CITY	29	AADT	1905
	Code	38000	30	AADT Year	2023
9	Location	S 5 T 49 N R 33 W	102	Direction of Traffic	1-WAY TRAFFIC
11	Milepoint	0.59 miles	109	AADT Truck Percent	5%
16	Latitude	39 D 5 M 58 S	114	Future AADT	
17	Longitude	94 D 34 M 20 S	115	Future AADT Year	
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	CST E 12TH ST	10	Inventory Rte. Vert. Clear	13 Ft. 8 In.
42B	Type of Service Under	HIGHWAY	19	By pass Detour Length	0.00 miles
28B	Lanes Under Structure	02	32	Approach Roadway Width	
54A	Vert. Clearance Ref.		34	Skew	
54B	Vert. Clearance		35	Struct. Flared	
55A	Rt. Lat Clear Ref.		47	Total Horiz. Clear	13 Ft. 9 In.
55B	Rt. Lat Clearance		48	Maximum Span Length	66 Ft. 11 In.
56	Left Lat Clearance		49	Structure Length	164 Ft. 1 In.
38	Navigation Control		50A	Left Curb/Sidewalk Width	
39	Nav Vertical Clear		50B	Right Curb/Sidewalk Width	
40	Nav Horizontal Clear		51	Curb to Curb Br. Width	
111	Nav. Pier Protection		52	Deck Width (Out-Out)	
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	

Design_No = A0246



Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

May 2, 2024
4:13:12pm

COUNTY : JACKSON BRIDGE : A0246 2 REVIEW STATUS : APPROVED NBI STATUS : P
RECORD TYPE : ROUTE 'UNDER' STRUCT RUN DATE : 3/7/2024 SUBMITTAL YEAR : 2023

LOAD RATING AND POSTING INFORMATION		MATERIAL/CONSTRUCTION INFORMATION	
<div>31</div> Design Load		<div>43A</div> Main Struc. Mat type	CONCRETE CONTINUOUS
<div>41</div> Structure Status		<div>43B</div> Main struc Constr. Type	BOX BEAM OR GIRDERS- SING
<div>63</div> Oper. Rating Meth.		<div>45</div> # of Main Spans	
<div>64</div> Operating Rating		<div>44A</div> Appr Struc. Mat type	
<div>65</div> Inventory Rating Meth		<div>44B</div> Appr Struc. Cnstr. type	
<div>66</div> Inventory Rating		<div>46</div> # of Approach Span	
<div>70</div> Bridge Posting Code		<div>107</div> Deck Mat/Constr.	
		<div>108A</div> Wear Surf Mat/Constr.	
		<div>108B</div> Membrane Mat/Constr.	
		<div>108C</div> Deck Protect Mat/Constr.	
PROPOSED IMPROVEMENT INFORMATION		CONDITION RATING INFORMATION	
Sufficiency Rating		<div>58</div> Deck Cond. Rating	
Deficiency Rating		<div>59</div> Superstructure Cond. Rating	
Funding Eligibility		<div>60</div> Substructure Cond. Rating	
<div>75A</div> Proposed Work		<div>61</div> Channel /Channel Protection Cond. Rating	
<div>75B</div> Work Done By		<div>62</div> Culvert Cond. Rating	
<div>76</div> New Struc Length			
<div>94</div> Struc Improve Cost		INSPECTION INFORMATION	
<div>95</div> Roadway Improve Cost		<div>90</div> Gen. Insp Date	
<div>96</div> Total Project Cost		<div>91</div> Gen. Insp. Frequency	
<div>97</div> Year of Cost Estimates		<div>92A</div> Frac. Critical Inspection	
		<div>93A</div> Frac. Critical Insp. Date	
		<div>92B</div> Underwater Inspection	
		<div>93B</div> Underwater Insp. Date	
		<div>92C</div> Special Inspection	
		<div>93C</div> Special Inspection Date	
APPRAISAL RATING INFORMATION		BORDER BRIDGE INFORMATION	
<div>36A</div> Br. Rail App. Rating		<div>98</div> Neighboring State Code	
<div>36B</div> Transition Rail App. Rating		<div>98B</div> Neighboring State % Respon	
<div>36C</div> Approach Rail App. Rating		<div>99</div> Neighboring State Struc. No.	
<div>36D</div> Rail End Treat. App. Rating			
<div>67</div> Struc Eval App. Rating			
<div>68</div> Deck Geometry App. Rating			
<div>69</div> Underclearance App. Rating			
<div>71</div> Waterway Adeq. App. Rating			
<div>72</div> Approach Road App. Rating			
<div>113</div> Scour Assess App. Rating			
APPROVED POSTING INFORMATION		FIELD POSTING INFORMATION	
Approved Posting Category		Field Posting Category	
Ton1 Ton2 Ton3		Ton1 Ton2 Ton3	
Tonnage Values for Posting Sign		Tonnage Values for Posting Sign	
General Text for Posting Sign		General Text for Posting Sign	

Design_No = A0246