

A2582 Buchanan Co.
rte DD 7/26/07
X-sec looking W



**A2582 Buchanan Co.
rte DD 7/26/07
Profile looking W N side**



**A2582 Buchanan Co.
rte DD 7/26/07
Profile looking W S side**



Date & Time: Tue, Jul 12, 2022, 10:33:04 CDT

Deck Lae

Buchanan A2582



Date & Time: Tue, Jul 12, 2022, 10:33:14 CDT

Deck Typ

Buchanan A2582



Date & Time: Tue, Jul 12, 2022, 10:34:05 CDT
E J
Buchanan A2582



Date & Time: Tue, Jul 12, 2022, 10:36:53 CDT
E Abut
Buchanan A2582



Date & Time: Tue, Jul 12, 2022, 10:37:10 CDT

Bear Typ

Buchanan A2582



Date & Time: Tue, Jul 12, 2022, 10:38:22 CDT
Super Typ
Buchanan A2582



Date & Time: Tue, Jul 12, 2022, 10:38:45 CDT

W Bent

Buchanan A2582



Date & Time: Tue, Jul 12, 2022, 10:40:08 CDT
UnderS Typ
Buchanan A2582



Date & Time: Tue, Jul 12, 2022, 10:40:17 CDT
E Bent
Buchanan A2582



Date & Time: Tue, Jul 12, 2022, 10:41:38 CDT
W Abut
Buchanan A2582



Date & Time: Tue, Jul 12, 2022, 10:42:26 CDT
Elev LE
Buchanan A2582





08.01.2018



08.01.2018



08.01.2018

A2582 Buchanan DD 1/7/15
Deck view west to east





A2582 Buchanan DD 1/7/15
Spalls east deck

A2582 Buchanan DD 1/7/15

Area of saturation span 1



A2582 Buchanan DD 1/7/15
Areas of saturation span 2





A2582 Buchanan DD 1/7/15
Areas of saturation
span 2



A2582 Buchanan DD 1/7/15
Overall view of abut 4



**A2582 Buchanan DD 1/7/15
View of bent 3**

A2582 Buchanan DD 1/7/15
Joint at abut 4





A2582 Buchanan DD 1/7/15
Spall in top of deck



A2582 Buchanan DD 1/7/15
Spall in top of deck





A2582
Deck Delamination Span 1
9/14/12

A2582
North Profile
9/14/12



A2582
Span 2
9/14/12




A1280
Deck Looking West
10/23/12



A1280
South Profile
10/23/12





A photograph taken from underneath a bridge span, looking up at the structural components. The image shows a series of parallel steel beams supporting a concrete slab. A central vertical steel beam is prominent, showing a small circular mark or hole. The concrete slab has a mottled, weathered appearance. The background shows a grassy area and bare trees, suggesting an outdoor setting.


A1280
Span 2 Underneath
10/23/12

A1782
Deck Looking North
10/23/12




A1782
West Profile
10/23/12






**A1782
Bents 2 & 3
10/23/12**


		<div>Missouri Department of Transportation</div> <div>State Bridge Inspection Report</div>				<div>September 09, 2022</div> <div>7:54:55AM</div>			
COUNTY: ANDREW		DISTRICT: NW		CLASS: STATBR		FED-ID: 1482		BRIDGE: A1782	
GENERAL STRUCTURE INFORMATION							***BRIDGE INSPECTION INFORMATION***		
<div>ROUTE: RTHS</div> <div>FEATURE: LINCOLN CR</div> <div>STATUS: A-OPEN</div> <div>LOG MILE: 23.274</div> <div>DETOUR: 19.00 MILES</div> <div>NHS: NO</div> <div>BUILT: 1966</div> <div>REHAB:</div> <div>LOCATION: S 29 T 60 R 36 W</div> <div>LATITUDE: 39 59 36.70 (DMS)</div> <div>LONGITUDE: 94 58 26.82 (DMS)</div>		<div># SPANS: 3</div> <div>LANES ON: 2</div> <div>LANES UNDER: 0</div> <div>COMPASS DIRECTION: NORTH to SOUTH</div> <div>DIRECTION OF TRAFFIC: 2-WAY TRAF</div> <div>FUNCTIONAL CLASS: RL-MAJOR COLLECTOR</div> <div>NBI OWNER: MODOT</div> <div>NBI MAINTAINED: MODOT</div> <div>MAINTENANCE DISTRICT: NW</div> <div>MAINTENANCE COUNTY: ANDREW</div> <div>SUB AREA: 7A28</div>		<div>PLACE CODE: 35576 JACKSON</div> <div>LENGTH: 129 FT 0 IN</div> <div>MAXIMUM SPAN: 50 FT 0 IN</div> <div>APPROACH ROADWAY: 20 FT 0 IN</div> <div>CURB TO CURB: 28 FT 0 IN</div> <div>OUT TO OUT: 30 FT 10 IN</div> <div>AADT: 578</div> <div>AADT YEAR: 2021</div> <div>AADT TRUCK: 16.6%</div> <div>FUTURE AADT: 751</div> <div>FUTURE AADT YEAR: 2041</div>		<div>DATE: 09/22/2020</div> <div>RESPONSIBILITY: DISTRICT</div> <div>FREQUENCY: 24</div> <div>CALCULATED INTERVAL**: 24</div> <div>TEAM LEADER: SCOTT STEPHENS</div> <div>ELEMENT: NO</div> <div>INSPECTOR 2:</div> <div>INSPECTOR 4:</div> <div>INSPECTOR 3:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>			
						<div>GENERAL INSPECTION COMMENTS</div>			
FRACTURE CRITICAL INSPECTION INFORMATION					***INDEPTH INSPECTION INFORMATION***				
<div>DATE:</div> <div>FREQUENCY:</div> <div>TEAM LEADER:</div> <div>INSPECTOR 2:</div> <div>RESPONSIBILITY:</div> <div>CALCULATED INTERVAL**:</div> <div>INSPECTOR 3:</div> <div>INSPECTOR 4:</div> <div>CATEGORY:</div> <div>NBI:</div> <div>METHOD:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>					<div>DATE:</div> <div>FREQUENCY:</div> <div>TEAM LEADER:</div> <div>INSPECTOR 2:</div> <div>RESPONSIBILITY:</div> <div>CALCULATED INTERVAL**:</div> <div>INSPECTOR 3:</div> <div>INSPECTOR 4:</div> <div>CATEGORY:</div> <div>NBI:</div> <div>METHOD:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>				
FRACTURE CRITICAL INSPECTION COMMENTS					INDEPTH INSPECTION COMMENTS				
SPECIAL INSPECTION INFORMATION					***UNDERWATER INSPECTION INFORMATION***				
<div>DATE: 07/22/2015</div> <div>FREQUENCY: 120</div> <div>TEAM LEADER:</div> <div>INSPECTOR 2: WESLEY CARMACK</div> <div>RESPONSIBILITY: DISTRICT</div> <div>CALCULATED INTERVAL**:</div> <div>INSPECTOR 3:</div> <div>INSPECTOR 4:</div> <div>CATEGORY: CHANNEL CROSS SEC</div> <div>NBI: NO</div> <div>METHOD: WT TAPE</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>					<div>DATE: 09/22/2020</div> <div>FREQUENCY: 60</div> <div>TEAM LEADER: SCOTT STEPHENS</div> <div>INSPECTOR 2:</div> <div>RESPONSIBILITY: DISTRICT</div> <div>CALCULATED INTERVAL**: 24</div> <div>INSPECTOR 3:</div> <div>INSPECTOR 4:</div> <div>CATEGORY: DRY</div> <div>NBI: NO</div> <div>METHOD: VISUAL</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>				
SPECIAL INSPECTION COMMENTS					UNDERWATER INSPECTION COMMENTS				
OTHER SPECIAL INSPECTIONS					OTHER UNDERWATER INSPECTIONS				
<div>DATE</div> <div>FREQUENCY</div> <div>CATEGORY</div> <div>NBI</div> <div>CALCULATED INTERVAL</div> <div>RESPONSIBILITY</div> <div>METHOD</div>					<div>DATE</div> <div>FREQUENCY</div> <div>CATEGORY</div> <div>NBI</div> <div>CALCULATED INTERVAL</div> <div>RESPONSIBILITY</div> <div>METHOD</div>				

DistrictAbbr = NW and Design_No = a1782 and County = ANDREW

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COUNTY: ANDREW		DISTRICT: NW	CLASS: STATBR	FED-ID: 1482	BRIDGE: A1782	
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:	PROBLEM DIRECTION:
COMMENTS:						
GENERAL COMMENTS/MAJOR RATED ITEMS						
GENERAL COMMENTS: (BOWDEJ1, 05/18/2007)--(38'-50'-38') CONT. COMP. I-BMS. SPANS						
[ITEM 58] DECK: 3-SERIOUS CONDITION			COMMENTS: (STEPHS2, 09/30/2014)--DELAMINATIONS IN ENTIRE DECK			
RATING : 10/20/2020			(STEPHS2, 09/16/2016)--PATCHES AND SATURATION			
[ITEM 59] SUPER: 8-VERY GOOD CONDITION			COMMENTS:			
RATING : 05/18/2001						
[ITEM 60] SUB: 8-VERY GOOD CONDITION			COMMENTS:			
RATING : 05/18/2001						
[ITEM 61] BANK/CHANNEL: 6-WIDESPREAD MINOR DAMAGE			COMMENTS: (BOWDEJ1, 02/09/2004)--BANK EROSION			
RATING : 09/16/2016						
[ITEM 113] SCOUR: 8-STABLE FOR CALCULATED			COMMENTS:			
RATING : 05/18/2001						
EVALUATION TYPE :						
[ITEM 71] WATERWAY ADEQUACY: DECK ABOVE FLOOD ELEV			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 : 12/05/2006		COMMENTS:				
<u>MATERIAL</u>		<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>		
REINFORCED CONCRETE		PARAPET	BOTH			
REINFORCED CONCRETE		CURB	BOTH			
ALUMINUM		CIRCULAR TUBE	BOTH			
[ITEM 36B] TRANSITION RAILING RATING: NOT PROVIDED-0						
RATING : 05/18/2001		COMMENTS:				
<u>MATERIAL</u>		<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>		
GALVANIZED STEEL		W-BEAM		(STEPHS2, 10/20/2020)--NOT CONNECTED		
[ITEM 36C] APPROACH RAILING RATING: DOESNT MEET CURRNT STND-0						
RATING : 12/05/2006		COMMENTS:				
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Page 2						
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		State Bridge Inspection Report				7:54:55AM	
COUNTY: ANDREW		DISTRICT: NW		CLASS: STATBR		FED-ID: 1482	
				BRIDGE: A1782			
<u>MATERIAL</u> GALVANIZED STEEL		<u>CONSTRUCTION</u> W-BEAM		<u>DIRECTION</u> ALL		<u>COMMENTS</u>	
[ITEM 36D] RAIL END TREATMENT RATING: NOT PROVIDED-0				RATING : 05/18/2001		COMMENTS:	
<u>MATERIAL</u> GALVANIZED STEEL		<u>CONSTRUCTION</u> REDIRECTIVE		<u>DIRECTION</u> ALL		<u>COMMENTS</u>	
APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below.							
<u>MATERIAL</u> ASPHALT		<u>CONSTRUCTION</u> BITUMINOUS MAT		<u>DIRECTION</u> BOTH		<u>CONDITION*</u> <u>COMMENTS</u>	
DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS							
<u>DECK PROTECTIVE COMPONENTS:</u>							
<u>SERIES TYPE-#</u> MAIN SERIES-1		<u>COMPONENT</u> WEARING SURFACE		<u>MATERIAL</u> PLAIN CONCRETE		<u>CONSTRUCTION</u> MONOLITHIC	
<u>THICKNESS</u>		<u>YEAR APPLIED</u>		<u>MANUFACTURE</u>		<u>OVERALL CONDITION</u> POOR	
<u>COMMENT:</u>							
		DECK PROTECTION		NOTAPPLICABLE		NONE	
<u>COMMENT:</u>							
		MEMBRANE		NOTAPPLICABLE		NONE	
<u>COMMENT:</u>							
<u>DRAINAGE COMPONENTS:</u>							
<u>COMPONENT</u> DRAINAGE		<u>MATERIAL</u> STEEL		<u>CONSTRUCTION</u> MODOT PIPE DRAIN		<u>DIRECTION</u>	
						<u>COMMENTS</u>	
<u>COMPONENT</u> DRAINAGE		<u>MATERIAL</u> REINFORCED CONCRETE		<u>CONSTRUCTION</u> CURB OUTLET			
<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> BANK PROTECTION		<u>MATERIAL</u> ROCK		<u>CONSTRUCTION</u> BLANKET		<u>DIRECTION</u> SOUTH	
<u>COMMENTS</u>							
<u>CONDITION</u> ERODING		<u>LOCATION 1</u> THROUGHOUT		<u>LOCATION 2</u>		<u>SEVERITY</u> MODERATE	
						<u>COMMENT</u>	
DECK COMPONENTS							
<u>SPAN TYPE-#</u> MAIN SPANS-1		<u>COMPONENT</u> DECK		<u>MATERIAL</u> REINFORCED CONCRETE		<u>CONSTRUCTION</u> CAST-IN-PLACE	
<u>COMMENTS</u>							
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
DELAMINATION		DRIVING SURFACE				MODERATE	
DETERIORATION		EDGE				MODERATE	
PATCHES		DRIVING SURFACE				MANY	
SATURATION		DRIVING SURFACE				MODERATE	
						15 %	
						50 %	
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Page 3							
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Missouri Department of Transportation

State Bridge Inspection Report

September 09, 2022
7:54:55AM

COUNTY: ANDREW

DISTRICT: NW

CLASS: STATBR

FED-ID: 1482

BRIDGE: A1782

TRANSVERSE CRACKS		DRIVING SURFACE		FEW		
MAIN SPANS-2	DECK	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>
DELAMINATION		DRIVING SURFACE		MODERATE		
DETERIORATION		EDGE		MODERATE		
PATCHES		DRIVING SURFACE		MANY	40 %	
REBAR EXPOSED		DRIVING SURFACE		MODERATE		
SATURATION		DRIVING SURFACE		MODERATE	20 %	
TRANSVERSE CRACKS		DRIVING SURFACE		MANY		
MAIN SPANS-3	DECK	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>
DELAMINATION		DRIVING SURFACE		MODERATE		
DETERIORATION		EDGE		MODERATE		
PATCHES		DRIVING SURFACE		MANY	50 %	
SATURATION		DRIVING SURFACE		MODERATE		
TRANSVERSE CRACKS		DRIVING SURFACE		FEW		

SUPERSTRUCTURE COMPONENTS

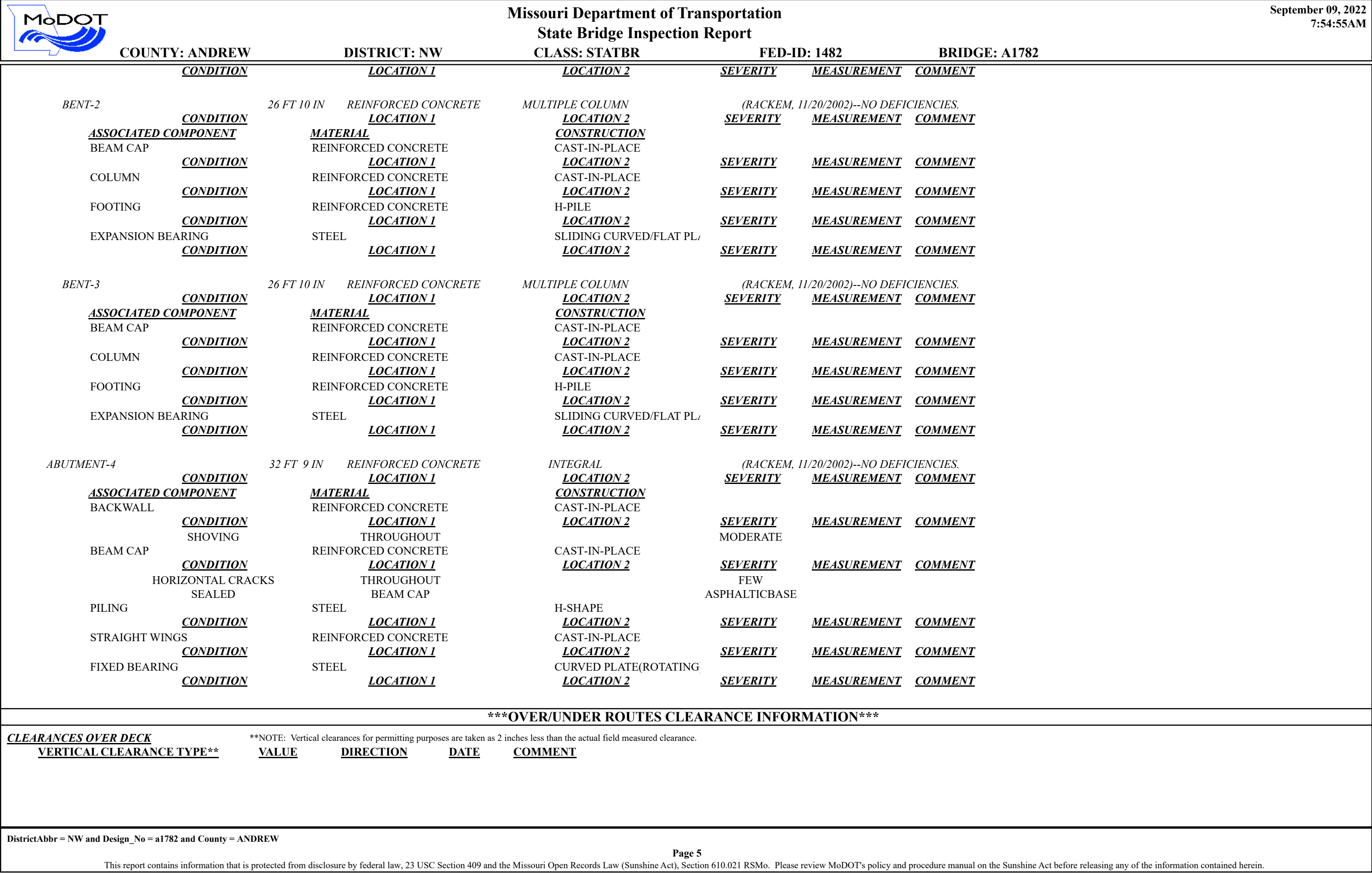
<u>SERIES TYPE-#</u>	<u>SPAN TYPE</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>	<u>COMMENTS</u>	
MAIN SERIES-1	CONTINUOUS SPAN	STEEL	WIDE FLANGE GIRDERS			
<u>SPAN</u>	<u>COMPOSITE INDICATOR</u>	<u>LENGTH</u>	<u>WEATHERING STEEL</u>	<u>COMMENTS</u>		
MAIN SPANS-1	COMPOSITE	39 FT 6 IN	NO			
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
MAIN SPANS-2	COMPOSITE	50 FT 0 IN	NO			
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
MAIN SPANS-3	COMPOSITE	39 FT 6 IN	NO			
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>


SUBSTRUCTURE COMPONENTS


<u>SUBSTRUCTURE</u>	<u>SKEW</u>	<u>LENGTH</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>	<u>COMMENTS</u>
ABUTMENT-1		32 FT 9 IN	REINFORCED CONCRETE	NON-INTEGRAL		(WILSOJ, 03/05/2002)--USGS MARKER ON NORTH EAST WING
<u>ASSOCIATED COMPONENT</u>	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BACKWALL						
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	SHOVING	THROUGHOUT		MODERATE		
BEAM CAP						
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	HORIZONTAL CRACKS	THROUGHOUT		FEW		
	SEALED	BEAM CAP		ASPHALTICBASE		(BOWDEJ1, 02/09/2004)--BOTH ABUTS SEALED 1996
PILING						
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
STRAIGHT WINGS						
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EXPANSION BEARING						


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COUNTY: ANDREW		DISTRICT: NW		CLASS: STATBR		FED-ID: 1482		BRIDGE: A1782															
<div><div><u>CLEARANCES UNDER BRIDGE</u></div><div>**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.</div></div> <table><tr><td><u>RECORD #</u></td><td><u>ROUTE</u></td><td><u># LANES</u></td><td><u>DIRECTION OF TRAFFIC</u></td><td><u>RIGHT LATERAL CLEARANCE</u></td><td><u>LEFT LATERAL CLEARANCE</u></td><td><u>UR-ID</u></td></tr><tr><td><u>VERTICAL CLEARANCE TYPE**</u></td><td><u>VALUE</u></td><td><u>DIRECTION</u></td><td><u>DATE</u></td><td><u>COMMENT</u></td><td></td><td></td></tr></table>										<u>RECORD #</u>	<u>ROUTE</u>	<u># LANES</u>	<u>DIRECTION OF TRAFFIC</u>	<u>RIGHT LATERAL CLEARANCE</u>	<u>LEFT LATERAL CLEARANCE</u>	<u>UR-ID</u>	<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>		
<u>RECORD #</u>	<u>ROUTE</u>	<u># LANES</u>	<u>DIRECTION OF TRAFFIC</u>	<u>RIGHT LATERAL CLEARANCE</u>	<u>LEFT LATERAL CLEARANCE</u>	<u>UR-ID</u>																	
<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>																			
STRUCTURE PAINT INFORMATION																							
CONDITION: GOOD		RUST AMOUNT : 7 = .2% OF SURFACE RUSTED			STEEL TONS : 22																		
<u>ORIGINAL PAINT</u>		<u>CONTRACT REPAINT</u>			<u>DEPARTMENT REPAINT</u>																		
PAINT TYPE : A SYSTEM		PAINT TYPE :			PAINT TYPE :		MANUFACTURE :																
NAME : RED LEAD		NAME :			NAME :		SURFACE PREP :																
PAINT COLOR : ALUMINUM		PAINT COLOR :			PAINT COLOR :																		
PAINT YEAR : 1967		PAINT YEAR :			PAINT YEAR :																		
MILS : 3		MILS :			MILS :																		
REQUESTED WORK ITEMS																							
GENERAL WORK COMMENTS:																							
<i>RESPONSIBILITY</i>	<i>LOCATION</i>	<i>ITEM</i>	<i>CATEGORY</i>	<i>PRIORITY</i>	<i>DATE</i>	<i>WORK ITEM COMMENT</i>																	
UTILITY ATTACHMENTS																							
<i>UTILITY</i>	<i>OWNER</i>	<i>METHOD</i>	<i>MEASUREMENT TYPE</i>	<i>VALUE</i>	<i>NUMBER</i>	<i>UTILITY ATTACHMENT COMMENT</i>																	
PROGRAM NOTES INFORMATION																							
<u>YEAR</u>	<u>PROJECT #</u>	<u>MONTH LET</u>	<u>YEAR LET</u>	<u>ITEMS</u>	<u>COMMENT</u>																		
DistrictAbbr = NW and Design_No = a1782 and County = ANDREW																							
<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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			FED-ID: 1482		BRIDGE: A1782																																											
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>4-MEETS MINIMUM TOLERABLE</td><td>1/28/2019</td></tr><tr><td>[Item 68] Deck Geometry Rating:</td><td>5-BETTER THAN MINIMUM</td><td>3/20/2002</td></tr><tr><td>[Item 69] Underclearance:</td><td>N-NOT APPLICABLE</td><td>3/20/2002</td></tr><tr><td>Sufficiency Rating:</td><td>68.3%</td><td>3/8/2022</td></tr><tr><td>Deficiency:</td><td>STRUCTURAL</td><td>9/21/2016</td></tr><tr><td>Funding Eligibility:</td><td></td><td>----</td></tr><tr><td>Estimated New Structure Length:</td><td></td><td>----</td></tr><tr><td>Estimated Structure Cost:</td><td></td><td>----</td></tr><tr><td>Estimated Total Project Cost:</td><td></td><td>----</td></tr><tr><td>Year of Cost Estimate:</td><td></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:	4-MEETS MINIMUM TOLERABLE	1/28/2019	[Item 68] Deck Geometry Rating:	5-BETTER THAN MINIMUM	3/20/2002	[Item 69] Underclearance:	N-NOT APPLICABLE	3/20/2002	Sufficiency Rating:	68.3%	3/8/2022	Deficiency:	STRUCTURAL	9/21/2016	Funding Eligibility:		----	Estimated New Structure Length:		----	Estimated Structure Cost:		----	Estimated Total Project Cost:		----	Year of Cost Estimate:		----	<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			
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		<div>Missouri Department of Transportation</div> <div>State Bridge Inspection Report</div>				<div>September 09, 2022</div> <div>7:59:32AM</div>			
COUNTY: ANDREW		DISTRICT: NW		CLASS: STATBR		FED-ID: 1965		BRIDGE: A2280	
GENERAL STRUCTURE INFORMATION							***BRIDGE INSPECTION INFORMATION***		
<div>ROUTE: RTBE</div> <div>FEATURE: UPPER NEELY BR</div> <div>STATUS: A-OPEN</div> <div>LOG MILE: 3.717</div> <div>DETOUR: 24.00 MILES</div> <div>NHS: NO</div> <div>BUILT: 1968</div> <div>REHAB:</div> <div>LOCATION: S 1 T 61 R 35 W</div> <div>LATITUDE: 40 6 46.78 (DMS)</div> <div>LONGITUDE: 94 48 1.06 (DMS)</div>		<div># SPANS: 3</div> <div>LANES ON: 2</div> <div>LANES UNDER: 0</div> <div>COMPASS DIRECTION: WEST to EAST</div> <div>DIRECTION OF TRAFFIC: 2-WAY TRAF</div> <div>FUNCTIONAL CLASS: RL-MAJOR COLLECTOR</div> <div>NBI OWNER: MODOT</div> <div>NBI MAINTAINED: MODOT</div> <div>MAINTENANCE DISTRICT: NW</div> <div>MAINTENANCE COUNTY: ANDREW</div> <div>SUB AREA: 7A28</div>		<div>PLACE CODE: 04564 BENTON</div> <div>LENGTH: 126 FT 0 IN</div> <div>MAXIMUM SPAN: 48 FT 0 IN</div> <div>APPROACH ROADWAY: 22 FT 0 IN</div> <div>CURB TO CURB: 26 FT 0 IN</div> <div>OUT TO OUT: 28 FT 10 IN</div> <div>AADT: 220</div> <div>AADT YEAR: 2021</div> <div>AADT TRUCK: 11.8%</div> <div>FUTURE AADT: 286</div> <div>FUTURE AADT YEAR: 2041</div>		<div>DATE: 09/22/2020</div> <div>RESPONSIBILITY: DISTRICT</div> <div>FREQUENCY: 24</div> <div>CALCULATED INTERVAL**: 24</div> <div>TEAM LEADER: SCOTT STEPHENS</div> <div>ELEMENT: NO</div> <div>INSPECTOR 2:</div> <div>INSPECTOR 4:</div> <div>INSPECTOR 3:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>			
						<div>GENERAL INSPECTION COMMENTS</div>			
FRACTURE CRITICAL INSPECTION INFORMATION					***INDEPTH INSPECTION INFORMATION***				
<div>DATE:</div> <div>FREQUENCY:</div> <div>TEAM LEADER:</div> <div>INSPECTOR 2:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>					<div>RESPONSIBILITY:</div> <div>CALCULATED INTERVAL**:</div> <div>INSPECTOR 3:</div> <div>INSPECTOR 4:</div> <div>CATEGORY:</div> <div>NBI:</div> <div>METHOD:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>				
<div>FRACTURE CRITICAL INSPECTION COMMENTS</div>					<div>INDEPTH INSPECTION COMMENTS</div>				
SPECIAL INSPECTION INFORMATION					***UNDERWATER INSPECTION INFORMATION***				
<div>DATE: 07/22/2015</div> <div>FREQUENCY: 120</div> <div>TEAM LEADER:</div> <div>INSPECTOR 2: WESLEY CARMACK</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>					<div>RESPONSIBILITY: DISTRICT</div> <div>CALCULATED INTERVAL**:</div> <div>INSPECTOR 3:</div> <div>INSPECTOR 4:</div> <div>CATEGORY: CHANNEL CROSS SEC</div> <div>NBI: NO</div> <div>METHOD: WT TAPE</div>				
<div>SPECIAL INSPECTION COMMENTS</div>					<div>UNDERWATER INSPECTION COMMENTS</div>				
OTHER SPECIAL INSPECTIONS					OTHER UNDERWATER INSPECTIONS				
<div>DATE</div> <div>FREQUENCY</div> <div>CATEGORY</div> <div>NBI</div> <div>CALCULATED INTERVAL</div> <div>RESPONSIBILITY</div> <div>METHOD</div>					<div>DATE</div> <div>FREQUENCY</div> <div>CATEGORY</div> <div>NBI</div> <div>CALCULATED INTERVAL</div> <div>RESPONSIBILITY</div> <div>METHOD</div>				
<div>DistrictAbbr = NW and Design_No = a2280 and County = ANDREW</div>									
<div>Page 1</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>									

		Missouri Department of Transportation			September 09, 2022	
		State Bridge Inspection Report			7:59:32AM	
COUNTY: ANDREW		DISTRICT: NW	CLASS: STATBR	FED-ID: 1965	BRIDGE: A2280	
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, 03/20/2009)--(38'-48'-38') CONT COMP WF GDR SPANS						
[ITEM 58] DECK: 3-SERIOUS CONDITION			COMMENTS: (STEPHS2, 10/25/2012)--SATURATION IN SPAN 2			
RATING : 10/20/2020						
[ITEM 59] SUPER: 6-SATISFACTORY CONDITION			COMMENTS: (STEPHS2, 09/16/2016)--RUST EXT GIRDERS			
RATING : 09/16/2016						
[ITEM 60] SUB: 6-SATISFACTORY CONDITION			COMMENTS: (STEPHS2, 09/16/2016)--RUST PILE BENT 2			
RATING : 09/16/2016						
[ITEM 61] BANK/CHANNEL: 6-WIDESPREAD MINOR DAMAGE			COMMENTS:			
RATING : 05/18/2001						
[ITEM 113] SCOUR: 8-STABLE FOR CALCULATED			COMMENTS:			
RATING : 05/18/2001						
EVALUATION TYPE :						
[ITEM 71] WATERWAY ADEQUACY: DECK ABOVE FLOOD ELEV			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 : 11/28/2006		COMMENTS:				
<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>		<u>COMMENTS</u>
REINFORCED CONCRETE		CURB		BOTH		
REINFORCED CONCRETE		PARAPET		BOTH		
ALUMINUM		CIRCULAR TUBE		BOTH		
[ITEM 36B] TRANSITION RAILING RATING: NOT PROVIDED-0			RATING : 05/18/2001		COMMENTS:	
[ITEM 36C] APPROACH RAILING RATING: NOT PROVIDED-0			RATING : 05/18/2001		COMMENTS:	
DistrictAbbr = NW and Design_No = a2280 and County = ANDREW						
Page 2						
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COUNTY: ANDREW		DISTRICT: NW		CLASS: STATBR		FED-ID: 1965		BRIDGE: A2280	
[ITEM 36D] RAIL END TREATMENT RATING: NOT PROVIDED-0				RATING : 05/18/2001		COMMENTS:			
APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below.									
<u>MATERIAL</u> ASPHALT		<u>CONSTRUCTION</u> BITUMINOUS MAT		<u>DIRECTION</u> BOTH		<u>CONDITION*</u> FAIR		<u>COMMENTS</u>	
DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS									
<u>DECK PROTECTIVE COMPONENTS:</u>									
<u>SERIES TYPE-#</u> MAIN SERIES-1		<u>COMPONENT</u> WEARING SURFACE		<u>MATERIAL</u> ASPHALT		<u>CONSTRUCTION</u> BITUMINOUS SEAL COAT		<u>THICKNESS</u>	
<u>COMMENT:</u>									
		DECK PROTECTION		NOTAPPLICABLE		NONE			
<u>COMMENT:</u>									
		MEMBRANE		NOTAPPLICABLE		NONE			
<u>COMMENT:</u>									
<u>DRAINAGE COMPONENTS:</u>									
		<u>COMPONENT</u> DRAINAGE		<u>MATERIAL</u> REINFORCED CONCRETE		<u>CONSTRUCTION</u> CURB OUTLET		<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>COMMENT:</u>								<u>GAP</u>	
								<u>YEAR APPLIED</u>	
								<u>MANUFACTURE</u>	
								<u>OVERALL CONDITION</u>	
<u>BANK/SLOPE PROTECTION COMPONENTS:</u>									
		<u>COMPONENT</u> BANK PROTECTION		<u>MATERIAL</u> EARTH FILL		<u>CONSTRUCTION</u> NOT APPLICABLE		<u>DIRECTION</u> BOTH	
								<u>COMMENTS</u> (WILSOJ, 03/05/2002)--WEST BANK SLOUGHING	
<u>CONDITION</u> ERODING		<u>LOCATION 1</u> THROUGHOUT		<u>LOCATION 2</u>		<u>SEVERITY</u> MINOR		<u>COMMENT</u>	
DECK COMPONENTS									
<u>SPAN TYPE-#</u> MAIN SPANS-1		<u>COMPONENT</u> DECK		<u>MATERIAL</u> REINFORCED CONCRETE		<u>CONSTRUCTION</u> CAST-IN-PLACE		<u>COMMENTS</u>	
<u>CONDITION</u> DELAMINATION DETERIORATION SATURATION SPALLS TRANSVERSE CRACKS		<u>LOCATION 1</u> DRIVING SURFACE EDGE THROUGHOUT DRIVING SURFACE DRIVING SURFACE		<u>LOCATION 2</u>		<u>SEVERITY</u> MINOR MINOR MODERATE MINOR FEW		<u>MEASUREMENT</u> 25 %	
								<u>COMMENT</u>	
<u>CONDITION</u> DELAMINATION		<u>LOCATION 1</u> DRIVING SURFACE		<u>LOCATION 2</u>		<u>SEVERITY</u> MINOR		<u>MEASUREMENT</u>	
								<u>COMMENT</u>	
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COUNTY: ANDREW		DISTRICT: NW		CLASS: STATBR		FED-ID: 1965		BRIDGE: A2280	
DETERIORATION		AT OUTLETS		MINOR					
DETERIORATION		EDGE		MINOR					
EFFLORESCENCE		THROUGHOUT		MINOR					
SATURATION		THROUGHOUT		MINOR		50 %			
SPALLS		DRIVING SURFACE		MINOR					
TRANSVERSE CRACKS		DRIVING SURFACE		FEW					
MAIN SPANS-3		DECK		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>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>	
DELAMINATION		DRIVING SURFACE				MINOR			
DETERIORATION		AT OUTLETS				MINOR			
DETERIORATION		EDGE				MINOR			
EFFLORESCENCE		THROUGHOUT				MINOR			
SATURATION		THROUGHOUT				MINOR		30 %	
SPALLS		DRIVING SURFACE				MINOR			
TRANSVERSE CRACKS		DRIVING SURFACE				FEW			
TRANSVERSE CRACKS		THROUGHOUT				FEW			
SUPERSTRUCTURE COMPONENTS									
<u>SERIES TYPE-#</u>		<u>SPAN TYPE</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>LABEL</u>	
<u>COMMENTS</u>		<u>COMMENTS</u>		<u>COMMENTS</u>		<u>COMMENTS</u>		<u>COMMENTS</u>	
MAIN SERIES-1		CONTINUOUS SPAN		STEEL		WIDE FLANGE GIRDERS			
<u>SPAN</u>		<u>COMPOSITE INDICATOR</u>		<u>LENGTH</u>		<u>WEATHERING STEEL</u>		<u>COMMENTS</u>	
MAIN SPANS-1		COMPOSITE		38 FT 9 IN		NO			
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>	
RUSTING		EXTERIOR GIRDERS				MINOR			
RUSTING		TOP FLANGE				MINOR			
MAIN SPANS-2		COMPOSITE		48 FT 0 IN		NO			
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>	
RUSTING		EXTERIOR GIRDERS				MINOR			
RUSTING		TOP FLANGE				MINOR			
MAIN SPANS-3		COMPOSITE		38 FT 9 IN		NO			
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>	
RUSTING		EXTERIOR GIRDERS				MINOR			
RUSTING		TOP FLANGE				MINOR			
SUBSTRUCTURE COMPONENTS									
<u>SUBSTRUCTURE</u>		<u>SKEW</u>		<u>LENGTH</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>	
<u>LABEL</u>		<u>COMMENTS</u>		<u>LABEL</u>		<u>COMMENTS</u>		<u>COMMENTS</u>	
ABUTMENT-1		LA-25 DEGREES		33 FT 9 IN		REINFORCED CONCRETE		NON-INTEGRAL	
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>	
<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>					
BACKWALL		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>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</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>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>	
PILING		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>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>	
STRAIGHT 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>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>		<u>COMMENT</u>	
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Page 4									
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Missouri Department of Transportation

State Bridge Inspection Report

September 09, 2022
7:59:32AM

COUNTY: ANDREW

DISTRICT: NW

CLASS: STATBR

FED-ID: 1965

BRIDGE: A2280


FIXED BEARING		STEEL	CURVED PLATE(ROTATING				
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	RUSTING		RANDOM		MINOR		
BENT-2	LA-25 DEGREES	27 FT 2 IN	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>			
	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		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>
	RUSTING		GROUND LINE		MODERATE		(STEPHS2, 10/20/2020)--PAINTED 2020
	FIXED BEARING	STEEL		CURVED PLATE(ROTATING			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BENT-3	LA-25 DEGREES	27 FT 2 IN	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>			
	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		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>
	FIXED BEARING	STEEL		CURVED PLATE(ROTATING			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ABUTMENT-4	LA-25 DEGREES	33 FT 9 IN	REINFORCED CONCRETE	NON-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>			
	BACKWALL		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>
	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		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>
	STRAIGHT 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>
	FIXED BEARING	STEEL		CURVED PLATE(ROTATING			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	RUSTING		RANDOM		MINOR		


OVER/UNDER ROUTES CLEARANCE INFORMATION

<u>CLEARANCES OVER DECK</u>	**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>

DistrictAbbr = NW and Design_No = a2280 and County = ANDREW

This report contains information that is protected from disclosure by federal law, 25 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>Missouri Department of Transportation</div> <div>State Bridge Inspection Report</div>				<div>September 09, 2022</div> <div>7:59:32AM</div>																	
COUNTY: ANDREW		DISTRICT: NW		CLASS: STATBR		FED-ID: 1965		BRIDGE: A2280															
<div><div><u>CLEARANCES UNDER BRIDGE</u></div><div>**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.</div></div> <table><tr><td><u>RECORD #</u></td><td><u>ROUTE</u></td><td><u># LANES</u></td><td><u>DIRECTION OF TRAFFIC</u></td><td><u>RIGHT LATERAL CLEARANCE</u></td><td><u>LEFT LATERAL CLEARANCE</u></td><td><u>UR-ID</u></td></tr><tr><td><u>VERTICAL CLEARANCE TYPE**</u></td><td><u>VALUE</u></td><td><u>DIRECTION</u></td><td><u>DATE</u></td><td><u>COMMENT</u></td><td></td><td></td></tr></table>										<u>RECORD #</u>	<u>ROUTE</u>	<u># LANES</u>	<u>DIRECTION OF TRAFFIC</u>	<u>RIGHT LATERAL CLEARANCE</u>	<u>LEFT LATERAL CLEARANCE</u>	<u>UR-ID</u>	<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>		
<u>RECORD #</u>	<u>ROUTE</u>	<u># LANES</u>	<u>DIRECTION OF TRAFFIC</u>	<u>RIGHT LATERAL CLEARANCE</u>	<u>LEFT LATERAL CLEARANCE</u>	<u>UR-ID</u>																	
<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>																			
STRUCTURE PAINT INFORMATION																							
CONDITION: GOOD		RUST AMOUNT : 9=.03% OF SURFACE RUSTED			STEEL TONS : 24																		
<u>ORIGINAL PAINT</u>		<u>CONTRACT REPAINT</u>			<u>DEPARTMENT REPAINT</u>																		
PAINT TYPE : A SYSTEM		PAINT TYPE :			PAINT TYPE :		MANUFACTURE :																
NAME : RED LEAD		NAME :			NAME :		SURFACE PREP :																
PAINT COLOR : ALUMINUM		PAINT COLOR :			PAINT COLOR :																		
PAINT YEAR : 1969		PAINT YEAR :			PAINT YEAR :																		
MILS : 4		MILS :			MILS :																		
REQUESTED WORK ITEMS																							
GENERAL WORK COMMENTS: (STEGEC, 12/30/2004)--.																							
<i>RESPONSIBILITY</i>	<i>LOCATION</i>	<i>ITEM</i>	<i>CATEGORY</i>	<i>PRIORITY</i>	<i>DATE</i>	<i>WORK ITEM COMMENT</i>																	
UTILITY ATTACHMENTS																							
<i>UTILITY</i>	<i>OWNER</i>	<i>METHOD</i>	<i>MEASUREMENT TYPE</i>	<i>VALUE</i>	<i>NUMBER</i>	<i>UTILITY ATTACHMENT COMMENT</i>																	
PROGRAM NOTES INFORMATION																							
<u>YEAR</u>	<u>PROJECT #</u>	<u>MONTH LET</u>	<u>YEAR LET</u>	<u>ITEMS</u>	<u>COMMENT</u>																		
DistrictAbbr = NW and Design_No = a2280 and County = ANDREW																							
<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>																							

			Missouri Department of Transportation		September 09, 2022	
			State Bridge Inspection Report		7:59:32AM	
COUNTY: ANDREW			DISTRICT: NW		CLASS: STATBR	
			FED-ID: 1965		BRIDGE: A2280	
COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS				***ADVANCED SIGN INFORMATION***		
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.				SIGN #		
				SIGN TYPE		
				PROBLEM		
				PROBLEM DIRECTION		
<u>Rated Item</u>						
<u>Rating</u>						
<u>Rating Date</u>						
[Item 67] Structure Evaluation Rating: 6-EQ TO PRESENT MIN CRITR 3/20/2002						
[Item 68] Deck Geometry Rating: 5-BETTER THAN MINIMUM 5/18/2001						
[Item 69] Underclearance: N-NOT APPLICABLE 5/18/2001						
Sufficiency Rating: 84.2% 3/8/2022						
Deficiency: STRUCTURAL 10/3/2018						
Funding Eligibility: ----						
Estimated New Structure Length: ----						
Estimated Structure Cost: ----						
Estimated Total Project Cost: ----						
Year of Cost Estimate: ----						
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.						
				OUTFALL INSPECTION INFORMATION		
				# OUTFALLS:		
				INSPECTOR:		
				STATUS:		
				DATE:		
				NOTES:		



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

February 23, 2023
10:14:04am

COUNTY : ANDREW BRIDGE : A1782 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 1/26/2023 SUBMITTAL YEAR : 2022

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	NW	5B	Route Signing Prefix	MO
3	County	ANDREW	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	1482	5D	Route Number	0000H
27	Year Built	1966	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	RT H S
42A	Type of Service On	HIGHWAY	12	Base Hwy. Network	NO
21	Structure Maintenance	STATE HIGHWAY AGENCY	13A	LRS Inventory Route No.	
22	Structure Owner	STATE HIGHWAY AGENCY	13B	Subroute No.	
33	Br. Median Code	NO MEDIAN	20	Toll Status	ON FREE ROAD
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP	26	Functional Classification	07-RURAL MAJOR COLLECTOR
101	Parallel Struc Desg	NONE EXISTS	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	NOT ON NHS
			105	Federal Lands Highway	NOT APPLICABLE
			110	Designated Nat. Network	NO
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	JACKSON	29	AADT	578
	Code	35576	30	AADT Year	2021
9	Location	S 29 T 60 N R 36 W	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	23.41 miles	109	AADT Truck Percent	17%
16	Latitude	39 D 59 M 37 S	114	Future AADT	751
17	Longitude	94 D 58 M 27 S	115	Future AADT Year	2041
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	LINCOLN CR	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	WATERWAY	19	By pass Detour Length	19.38 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	20 Ft. 0 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	0.00 Degrees
54B	Vert. Clearance	0 Ft. 0 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	N/A	47	Total Horiz. Clear	27 Ft. 11 In.
55B	Rt. Lat Clearance	0 Ft. 0 In.	48	Maximum Span Length	49 Ft. 10 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	128 Ft. 11 In.
38	Navigation Control	PERMIT NOT REQ	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	27 Ft. 11 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	30 Ft. 10 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.



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

February 23, 2023
10:14:04am

COUNTY : ANDREW BRIDGE : A1782 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 1/26/2023 SUBMITTAL YEAR : 2022

LOAD RATING AND POSTING INFORMATION			MATERIAL/CONSTRUCTION INFORMATION		
31	Design Load	H 15	43A	Main Struc. Mat type	STEEL CONTINUOUS
41	Structure Status	OPEN NO RESTRICTIONS	43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
63	Oper. Rating Meth.	ALLOWABLE STRESS	45	# of Main Spans	3
64	Operating Rating	34 Tons.	44A	Appr Struc. Mat type	000
65	Inventory Rating Meth	ALLOWABLE STRESS	44B	Appr Struc. Cnstr. type	000
66	Inventory Rating	19 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.	1 MONO CONCRETE
Sufficiency Rating 68.3 Percent			108B	Membrane Mat/Constr.	0 NONE
Deficiency Rating STRUCTURAL			108C	Deck Protect Mat/Constr.	0 NONE
Funding Eligibility PARTIAL			CONDITION RATING INFORMATION		
75A	Proposed Work	REHAB-GENERAL DETERIORAT	58	Deck Cond. Rating	3
75B	Work Done By	Contract	59	Superstructure Cond. Rating	8
76	New Struc Length	160 Ft. 9 In.	60	Substructure Cond. Rating	8
94	Struc Improve Cost	\$ 635,000	61	Channel /Channel Protection Cond. Rating	6
95	Roadway Improve Cost	\$ 63,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 952,000	INSPECTION INFORMATION		
97	Year of Cost Estimates	2023	90	Gen. Insp Date	9 / 22
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	DOES NOT MEET ACCEPT STND	93A	Frac. Critical Insp. Date	
36C	Approach Rail App. Rating	DOES NOT MEET ACCEPT STND	92B	Underwater Inspection	N Months
36D	Rail End Treat. App. Rating	DOES NOT MEET ACCEPT STND	93B	Underwater Insp. Date	
67	Struc Eval App. Rating	4	92C	Special Inspection	N Months
68	Deck Geometry App. Rating	5	93C	Special Inspection Date	
69	Underclearance App. Rating	N	BORDER BRIDGE INFORMATION		
71	Waterway Adeq. App. Rating	8	98	Neighboring State Code	
72	Approach Road App. Rating	8	98B	Neighboring State % Respon	
113	Scour Assess App. Rating	8	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		



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

February 23, 2023
10:13:03am

COUNTY : ANDREW BRIDGE : A2280 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 1/26/2023 SUBMITTAL YEAR : 2022

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	NW	5B	Route Signing Prefix	MO
3	County	ANDREW	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	1965	5D	Route Number	0000B
27	Year Built	1968	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	RT B E
42A	Type of Service On	HIGHWAY	12	Base Hwy. Network	NO
21	Structure Maintenance	STATE HIGHWAY AGENCY	13A	LRS Inventory Route No.	
22	Structure Owner	STATE HIGHWAY AGENCY	13B	Subroute No.	
33	Br. Median Code	NO MEDIAN	20	Toll Status	ON FREE ROAD
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP	26	Functional Classification	07-RURAL MAJOR COLLECTOR
101	Parallel Struc Desg	NONE EXISTS	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	NOT ON NHS
			105	Federal Lands Highway	NOT APPLICABLE
			110	Designated Nat. Network	NO
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	BENTON	29	AADT	220
	Code	04564	30	AADT Year	2021
9	Location	S 1 T 61 N R 35 W	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	3.74 miles	109	AADT Truck Percent	12%
16	Latitude	40 D 6 M 47 S	114	Future AADT	286
17	Longitude	94 D 48 M 1 S	115	Future AADT Year	2041
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	UPPER NEELY BR	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	WATERWAY	19	By pass Detour Length	24.38 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	21 Ft. 12 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	25.00 Degrees
54B	Vert. Clearance	0 Ft. 0 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	N/A	47	Total Horiz. Clear	25 Ft. 11 In.
55B	Rt. Lat Clearance	0 Ft. 0 In.	48	Maximum Span Length	47 Ft. 11 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	125 Ft. 12 In.
38	Navigation Control	PERMIT NOT REQ	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	25 Ft. 11 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	28 Ft. 10 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

DistrictAbbr = NW and Design_No = a2280 and County = ANDREW, ATCHISON, BUCHANAN, CALDWELL, CARROLL, CHARITON, CLINTON, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HOLT, LINN, LIVINGSTON, MERCER, NODAWAY, PUTNAM, SULLIVAN, WORTH and

Inventory Appraisal Submittal Year = 2022

Page: 1

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

February 23, 2023
10:13:03am

COUNTY : ANDREW BRIDGE : A2280 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 1/26/2023 SUBMITTAL YEAR : 2022

LOAD RATING AND POSTING INFORMATION			MATERIAL/CONSTRUCTION INFORMATION		
31	Design Load	H 15	43A	Main Struc. Mat type	STEEL CONTINUOUS
41	Structure Status	OPEN NO RESTRICTIONS	43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
63	Oper. Rating Meth.	ALLOWABLE STRESS	45	# of Main Spans	3
64	Operating Rating	50 Tons.	44A	Appr Struc. Mat type	000
65	Inventory Rating Meth	ALLOWABLE STRESS	44B	Appr Struc. Cnstr. type	000
66	Inventory Rating	28 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 84.2 Percent			108B	Membrane Mat/Constr.	0 NONE
Deficiency Rating STRUCTURAL			108C	Deck Protect Mat/Constr.	0 NONE
Funding Eligibility			CONDITION RATING INFORMATION		
75A	Proposed Work		58	Deck Cond. Rating	3
75B	Work Done By		59	Superstructure Cond. Rating	6
76	New Struc Length	0 Ft. 0 In.	60	Substructure Cond. Rating	6
94	Struc Improve Cost	\$ 0,000	61	Channel /Channel Protection Cond. Rating	6
95	Roadway Improve Cost	\$ 0,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 0,000	INSPECTION INFORMATION		
97	Year of Cost Estimates	0	90	Gen. Insp Date	9 / 22
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	DOES NOT MEET ACCEPT STND	93A	Frac. Critical Insp. Date	
36C	Approach Rail App. Rating	DOES NOT MEET ACCEPT STND	92B	Underwater Inspection	N Months
36D	Rail End Treat. App. Rating	DOES NOT MEET ACCEPT STND	93B	Underwater Insp. Date	
67	Struc Eval App. Rating	6	92C	Special Inspection	N Months
68	Deck Geometry App. Rating	5	93C	Special Inspection Date	
69	Underclearance App. Rating	N	BORDER BRIDGE INFORMATION		
71	Waterway Adeq. App. Rating	8	98	Neighboring State Code	
72	Approach Road App. Rating	8	98B	Neighboring State % Respon	
113	Scour Assess App. Rating	8	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		



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

February 23, 2023
10:13:28am

COUNTY : BUCHANAN BRIDGE : A2582 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 1/26/2023 SUBMITTAL YEAR : 2022

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	NW
3	County	BUCHANAN
8	Federal ID No.	2231
27	Year Built	1971
106	Year Reconstructed	0
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	MO
5C	Designated Level of Service	MAINLINE
5D	Route Number	000DD
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	RT DD E
12	Base Hwy. Network	NO
13A	LRS Inventory Route No.	
13B	Subroute No.	
20	Toll Status	ON FREE ROAD
26	Functional Classification	08-RURAL MINOR COLLECTOR
28A	Lanes on Structure	02
100	STRAHNET Designation	RTE NOT A DEFENSE HWY
104	National Highway System	NOT ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	NO

STRUCTURE LOCATION INFORMATION

4	Place	PLATTE
	Code	58124
9	Location	S 8 T 55 N R 33 W
11	Milepoint	4.48 miles
16	Latitude	39 D 35 M 41 S
17	Longitude	94 D 37 M 32 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	128
30	AADT Year	2021
102	Direction of Traffic	2-WAY TRAFFIC
109	AADT Truck Percent	6%
114	Future AADT	166
115	Future AADT Year	2041

UNDERRECORD INFORMATION

6	Features Intersected	JENKINS CR
42B	Type of Service Under	WATERWAY
28B	Lanes Under Structure	00
54A	Vert. Clearance Ref.	N/A
54B	Vert. Clearance	0 Ft. 0 In.
55A	Rt. Lat Clear Ref.	N/A
55B	Rt. Lat Clearance	0 Ft. 0 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	PERMIT NOT REQ
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	14.38 miles
32	Approach Roadway Width	20 Ft. 0 In.
34	Skew	45.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	27 Ft. 11 In.
48	Maximum Span Length	64 Ft. 12 In.
49	Structure Length	169 Ft. 11 In.
50A	Left Curb/Sidewalk Width	0 Ft. 0 In.
50B	Right Curb/Sidewalk Width	0 Ft. 0 In.
51	Curb to Curb Br. Width	27 Ft. 11 In.
52	Deck Width (Out-Out)	30 Ft. 10 In.
53	Vert. Clearance Over Deck	99 Ft. 99 In.

DistrictAbbr = NW and Design_No = a2582 and County = ANDREW, ATCHISON, BUCHANAN, CALDWELL, CARROLL, CHARITON, CLINTON, DAVIESS, DEKALB, GENTRY, GRUNDY, HARRISON, HOLT, LINN, LIVINGSTON, MERCER, NODAWAY, PUTNAM, SULLIVAN, WORTH and

Inventory Appraisal Submittal Year = 2022

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


February 23, 2023
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COUNTY : BUCHANAN BRIDGE : A2582 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 1/26/2023 SUBMITTAL YEAR : 2022

LOAD RATING AND POSTING INFORMATION			MATERIAL/CONSTRUCTION INFORMATION		
31	Design Load	HS 15	43A	Main Struc. Mat type	STEEL CONTINUOUS
41	Structure Status	OPEN NO RESTRICTIONS	43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
63	Oper. Rating Meth.	ALLOWABLE STRESS	45	# of Main Spans	3
64	Operating Rating	35 Tons.	44A	Appr Struc. Mat type	000
65	Inventory Rating Meth	ALLOWABLE STRESS	44B	Appr Struc. Cnstr. type	000
66	Inventory Rating	21 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.	1 MONO CONCRETE
Sufficiency Rating 77.7 Percent			108B	Membrane Mat/Constr.	0 NONE
Deficiency Rating STRUCTURAL			108C	Deck Protect Mat/Constr.	0 NONE
Funding Eligibility PARTIAL			CONDITION RATING INFORMATION		
75A	Proposed Work	REHAB-GENERAL DETERIORAT	58	Deck Cond. Rating	4
75B	Work Done By	Contract	59	Superstructure Cond. Rating	6
76	New Struc Length	203 Ft. 5 In.	60	Substructure Cond. Rating	7
94	Struc Improve Cost	\$ 718,000	61	Channel /Channel Protection Cond. Rating	6
95	Roadway Improve Cost	\$ 72,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 1,077,000	INSPECTION INFORMATION		
97	Year of Cost Estimates	2023	90	Gen. Insp Date	7 / 22
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	DOES NOT MEET ACCEPT 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	DOES NOT MEET ACCEPT STND	93B	Underwater Insp. Date	
67	Struc Eval App. Rating	5	92C	Special Inspection	N Months
68	Deck Geometry App. Rating	6	93C	Special Inspection Date	
69	Underclearance App. Rating	N	BORDER BRIDGE INFORMATION		
71	Waterway Adeq. App. Rating	8	98	Neighboring State Code	
72	Approach Road App. Rating	8	98B	Neighboring State % Respon	
113	Scour Assess App. Rating	8	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		

		<div>Missouri Department of Transportation</div> <div>State Bridge Inspection Report</div>				<div>September 09, 2022</div> <div>8:01:13AM</div>			
COUNTY: BUCHANAN		DISTRICT: NW		CLASS: STATBR		FED-ID: 2231		BRIDGE: A2582	
GENERAL STRUCTURE INFORMATION							***BRIDGE INSPECTION INFORMATION***		
<div>ROUTE: RTDDE</div> <div>FEATURE: JENKINS CR</div> <div>STATUS: A-OPEN</div> <div>LOG MILE: 4.453</div> <div>DETOUR: 14.00 MILES</div> <div>NHS: NO</div> <div>BUILT: 1971</div> <div>REHAB:</div> <div>LOCATION: S 8 T 55 R 33 W</div> <div>LATITUDE: 39 35 40.78 (DMS)</div> <div>LONGITUDE: 94 37 32.4 (DMS)</div>		<div># SPANS: 3</div> <div>LANES ON: 2</div> <div>LANES UNDER: 0</div> <div>COMPASS DIRECTION: WEST to EAST</div> <div>DIRECTION OF TRAFFIC: 2-WAY TRAF</div> <div>FUNCTIONAL CLASS: RL-MINOR COLLECTOR</div> <div>NBI OWNER: MODOT</div> <div>NBI MAINTAINED: MODOT</div> <div>MAINTENANCE DISTRICT: NW</div> <div>MAINTENANCE COUNTY: BUCHANAN</div> <div>SUB AREA: 7A17</div>		<div>PLACE CODE: 58124 PLATTE</div> <div>LENGTH: 170 FT 0 IN</div> <div>MAXIMUM SPAN: 64 FT 11 IN</div> <div>APPROACH ROADWAY: 20 FT 0 IN</div> <div>CURB TO CURB: 28 FT 0 IN</div> <div>OUT TO OUT: 30 FT 10 IN</div> <div>AADT: 128</div> <div>AADT YEAR: 2021</div> <div>AADT TRUCK: 6.3%</div> <div>FUTURE AADT: 166</div> <div>FUTURE AADT YEAR: 2041</div>		<div>DATE: 07/12/2022</div> <div>RESPONSIBILITY: DISTRICT</div> <div>FREQUENCY: 24</div> <div>CALCULATED INTERVAL**: 24</div> <div>TEAM LEADER: SCOTT STEPHENS</div> <div>ELEMENT: NO</div> <div>INSPECTOR 2: BRYCE ACTON</div> <div>INSPECTOR 4:</div> <div>INSPECTOR 3:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>			
						GENERAL INSPECTION COMMENTS			
FRACTURE CRITICAL INSPECTION INFORMATION					***INDEPTH INSPECTION INFORMATION***				
<div>DATE:</div> <div>FREQUENCY:</div> <div>TEAM LEADER:</div> <div>INSPECTOR 2:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>					<div>RESPONSIBILITY:</div> <div>CALCULATED INTERVAL**:</div> <div>INSPECTOR 3:</div> <div>INSPECTOR 4:</div> <div>CATEGORY:</div> <div>NBI:</div> <div>METHOD:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>				
FRACTURE CRITICAL INSPECTION COMMENTS					INDEPTH INSPECTION COMMENTS				
SPECIAL INSPECTION INFORMATION					***UNDERWATER INSPECTION INFORMATION***				
<div>DATE: 07/27/2015</div> <div>FREQUENCY: 120</div> <div>TEAM LEADER:</div> <div>INSPECTOR 2: WESLEY CARMACK</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>					<div>RESPONSIBILITY: DISTRICT</div> <div>CALCULATED INTERVAL**:</div> <div>INSPECTOR 3:</div> <div>INSPECTOR 4:</div> <div>CATEGORY: CHANNEL CROSS SEC</div> <div>NBI: NO</div> <div>METHOD: WT TAPE</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>				
SPECIAL INSPECTION COMMENTS					UNDERWATER INSPECTION COMMENTS				
OTHER SPECIAL INSPECTIONS					OTHER UNDERWATER INSPECTIONS				
<div>DATE</div> <div>FREQUENCY</div> <div>CATEGORY</div> <div>NBI</div> <div>CALCULATED INTERVAL</div> <div>RESPONSIBILITY</div> <div>METHOD</div>					<div>DATE</div> <div>FREQUENCY</div> <div>CATEGORY</div> <div>NBI</div> <div>CALCULATED INTERVAL</div> <div>RESPONSIBILITY</div> <div>METHOD</div>				
DistrictAbbr = NW and Design_No = a2582 and County = BUCHANAN									
<div>Page 1</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>									

		Missouri Department of Transportation		September 09, 2022	
		State Bridge Inspection Report		8:01:13AM	
COUNTY: BUCHANAN		DISTRICT: NW		CLASS: STATBR	
		FED-ID: 2231		BRIDGE: A2582	
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:	
COMMENTS:		PROBLEM:		PROBLEM DIRECTION:	
GENERAL COMMENTS/MAJOR RATED ITEMS					
GENERAL COMMENTS: (BOWDEJ1, 03/06/2008)--(50'-65'-50') CONT. COMP. I-BMS. SPANS (MENEET, 10/03/2012)--REDECK CANDIDATE					
[ITEM 58] DECK: 4-POOR CONDITION		COMMENTS: (MENEET, 10/03/2012)--SPAN 2 50% SATURATED.			
RATING : 10/03/2012		(STEPHS2, 07/30/2020)--LARGE NUMBER OF NEW PATCHES			
[ITEM 59] SUPER: 6-SATISFACTORY CONDITION		COMMENTS: (STEPHS2, 08/15/2016)--GIRDER ENDS RUSTING			
RATING : 08/15/2016					
[ITEM 60] SUB: 7-GOOD CONDITION		COMMENTS: (ACTONB1, 07/18/2022)--MINOR CRACKS			
RATING : 05/18/2001					
[ITEM 61] BANK/CHANNEL: 6-WIDESPREAD MINOR DAMAGE		COMMENTS: (BOWDEJ1, 03/16/2004)--MINOR EROSION - EROSION REPRD 1994			
RATING : 01/26/2015					
[ITEM 113] SCOUR: 8-STABLE FOR CALCULATED		COMMENTS: (ACTONB1, 07/18/2022)--NO SCOUR OBSERVED			
RATING : 05/18/2001					
EVALUATION TYPE :					
[ITEM 71] WATERWAY ADEQUACY: DECK ABOVE FLOOD ELEV		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: NOT PROVIDED-0		RATING : 05/18/2001		COMMENTS:	
<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>	
<u>COMMENTS</u>					
REINFORCED CONCRETE		PARAPET		BOTH	
REINFORCED CONCRETE		CURB		BOTH	
ALUMINUM		CIRCULAR TUBE		BOTH	
[ITEM 36B] TRANSITION RAILING RATING: NOT PROVIDED-0		RATING : 05/18/2001		COMMENTS:	
<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>	
<u>COMMENTS</u>					
GALVANIZED STEEL		W-BEAM		ALL	
[ITEM 36C] APPROACH RAILING RATING: MEETS CURRENT STANDARDS-1		RATING : 05/18/2001		COMMENTS:	
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Page 2					
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		Missouri Department of Transportation				September 09, 2022	
		State Bridge Inspection Report				8:01:13AM	
COUNTY: BUCHANAN		DISTRICT: NW		CLASS: STATBR		FED-ID: 2231	
				BRIDGE: A2582			
<u>MATERIAL</u> GALVANIZED STEEL		<u>CONSTRUCTION</u> W-BEAM		<u>DIRECTION</u> ALL		<u>COMMENTS</u>	
<i>[ITEM 36D] RAIL END TREATMENT RATING: DOESNT MEET CURRNT STND-0</i>				<i>RATING : 01/08/2007</i>		<i>COMMENTS:</i>	
<u>MATERIAL</u> GALVANIZED STEEL		<u>CONSTRUCTION</u> TURN DOWN SECTION > 45		<u>DIRECTION</u> ALL		<u>COMMENTS</u>	
APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below.							
<u>MATERIAL</u> ASPHALT		<u>CONSTRUCTION</u> BITUMINOUS MAT		<u>DIRECTION</u> BOTH		<u>CONDITION*</u> FAIR	
<u>COMMENTS</u>							
DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS							
<u>DECK PROTECTIVE COMPONENTS:</u>							
<u>SERIES TYPE-#</u> MAIN SERIES-1		<u>COMPONENT</u> WEARING SURFACE		<u>MATERIAL</u> PLAIN CONCRETE		<u>CONSTRUCTION</u> MONOLITHIC	
<u>THICKNESS</u>		<u>YEAR APPLIED</u>		<u>MANUFACTURE</u>		<u>OVERALL CONDITION</u>	
<u>COMMENT:</u>							
		DECK PROTECTION		NOTAPPLICABLE		NONE	
<u>COMMENT:</u>							
		MEMBRANE		NOTAPPLICABLE		NONE	
<u>COMMENT:</u>							
<u>DRAINAGE COMPONENTS:</u>							
<u>COMPONENT</u> DRAINAGE		<u>MATERIAL</u> REINFORCED CONCRETE		<u>CONSTRUCTION</u> CURB OUTLET		<u>DIRECTION</u>	
						<u>COMMENTS</u>	
<u>COMPONENT</u> DRAINAGE		<u>MATERIAL</u> REINFORCED CONCRETE		<u>CONSTRUCTION</u> DRAIN BASIN-END BENT			
<u>EXPANSION DEVICE COMPONENTS:</u>							
<u>SUB UNIT-#</u> ABUTMENT-4		<u>SUB LABEL</u>		<u>COMPONENT</u> CLOSED EXPANSION JOINT		<u>MATERIAL</u> STEEL	
						<u>CONSTRUCTION</u> FLAT PLATE	
<u>GAP</u>		<u>YEAR APPLIED</u>		<u>MANUFACTURE</u>		<u>OVERALL CONDITION</u> POOR	
<u>COMMENT:</u>							
<u>BANK/SLOPE PROTECTION COMPONENTS:</u>							
<u>COMPONENT</u> BANK PROTECTION		<u>MATERIAL</u> ROCK		<u>CONSTRUCTION</u> GROUTED		<u>DIRECTION</u> BOTH	
						<u>COMMENTS</u>	
DECK COMPONENTS							
<u>SPAN TYPE-#</u> MAIN SPANS-1		<u>COMPONENT</u> DECK		<u>MATERIAL</u> REINFORCED CONCRETE		<u>CONSTRUCTION</u> CAST-IN-PLACE	
<u>COMMENTS</u>							
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
COLLISION DAMAGE		THROUGHOUT				MODERATE	
CRUSHING		THROUGHOUT				MODERATE	
DELAMINATION		THROUGHOUT				MANY	
EFFLORESCENCE		THROUGHOUT				MEDIUM	
HIGH STEEL SPALLS		THROUGHOUT				MANY	
PATCHES		THROUGHOUT				MEDIUM	
						20 %	
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Page 3							
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Missouri Department of Transportation

State Bridge Inspection Report

September 09, 2022
8:01:13AM

COUNTY: BUCHANAN

DISTRICT: NW

CLASS: STATBR

FED-ID: 2231

BRIDGE: A2582

SATURATION TRANSVERSE CRACKS		RANDOM THROUGHOUT		MINOR FEW	20 %	
MAIN SPANS-2	DECK	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>
DELAMINATION		THROUGHOUT		HEAVY		
EFFLORESCENCE		THROUGHOUT		MEDIUM		
HIGH STEEL SPALLS		THROUGHOUT		MANY		
PATCHES		THROUGHOUT		MEDIUM	20 %	
SATURATION		RANDOM		MODERATE	50 %	
TRANSVERSE CRACKS		THROUGHOUT		FEW		
MAIN SPANS-3	DECK	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>
DELAMINATION		THROUGHOUT		MANY		
EFFLORESCENCE		THROUGHOUT		MEDIUM		
HIGH STEEL SPALLS		THROUGHOUT		MANY		
PATCHES		THROUGHOUT		MEDIUM	20 %	
SATURATION		RANDOM		MINOR	5 %	
TRANSVERSE CRACKS		THROUGHOUT		FEW		

SUPERSTRUCTURE COMPONENTS

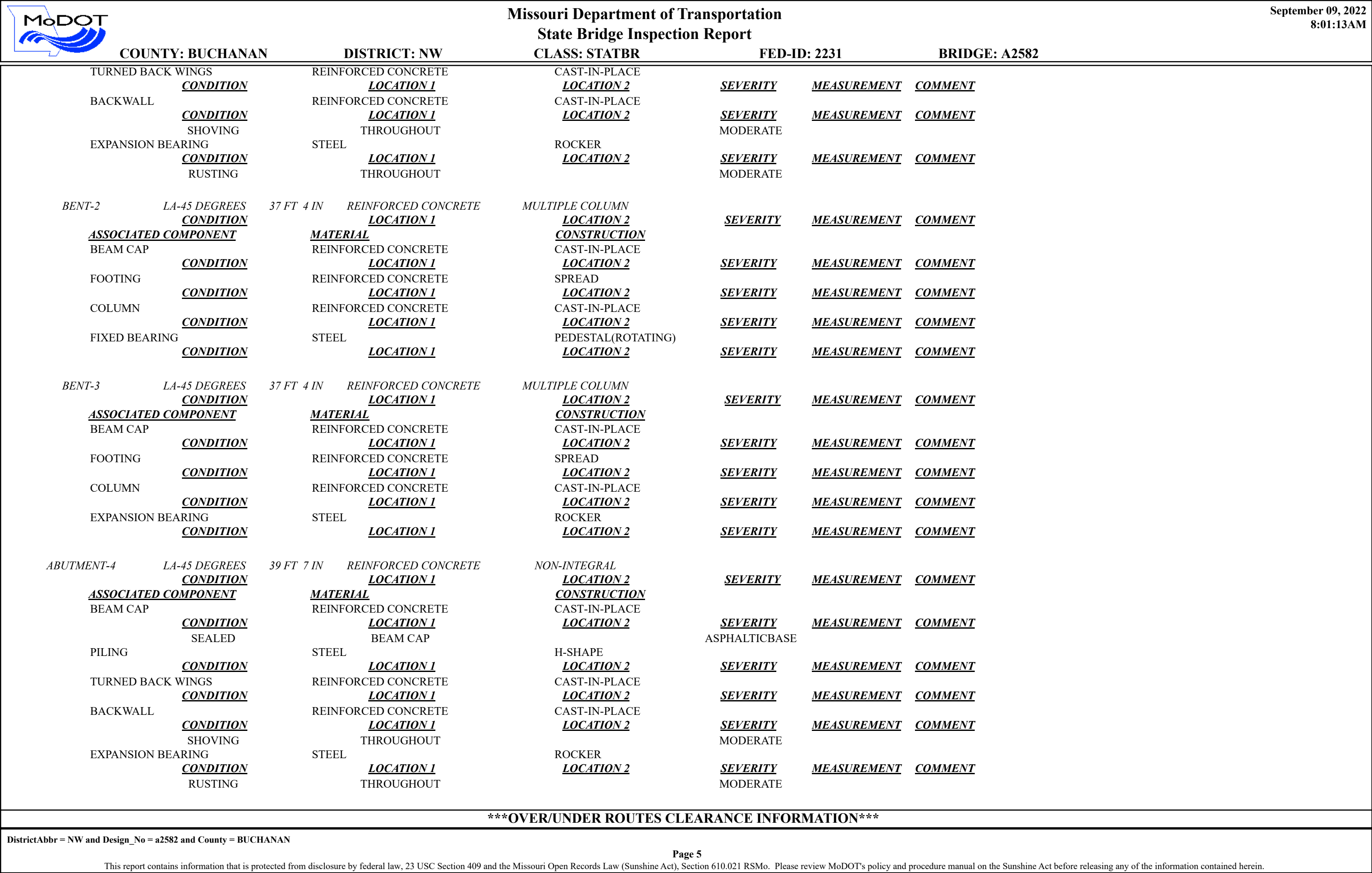
<u>SERIES TYPE-#</u>	<u>SPAN TYPE</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>	<u>COMMENTS</u>
MAIN SERIES-1	CONTINUOUS SPAN	STEEL	WIDE FLANGE GIRDERS		
<u>SPAN</u>	<u>COMPOSITE INDICATOR</u>	<u>LENGTH</u>	<u>WEATHERING STEEL</u>	<u>COMMENTS</u>	
MAIN SPANS-1	COMPOSITE	52 FT 7 IN	NO		
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>
RUST		GIRDER ENDS		MEDIUM	<u>COMMENT</u>
MAIN SPANS-2	COMPOSITE	64 FT 11 IN	NO		
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>
RUSTING		TOP FLANGE		MEDIUM	<u>COMMENT</u>
SAGGING		GIRDERS		MODERATE	
MAIN SPANS-3	COMPOSITE	52 FT 7 IN	NO		
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>
RUST		GIRDER ENDS		MEDIUM	<u>COMMENT</u>


SUBSTRUCTURE COMPONENTS


<u>SUBSTRUCTURE</u>	<u>SKEW</u>	<u>LENGTH</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>	<u>COMMENTS</u>
ABUTMENT-1	LA-45 DEGREES	39 FT 7 IN	REINFORCED CONCRETE	NON-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>
	HORIZONTAL CRACKS		THROUGHOUT		FEW	
	SEALED		BEAM CAP		ASPHALTICBASE	
PILING		STEEL	H-SHAPE			
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>

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		<div>Missouri Department of Transportation</div> <div>State Bridge Inspection Report</div>				<div>September 09, 2022</div> <div>8:01:13AM</div>			
COUNTY: BUCHANAN		DISTRICT: NW		CLASS: STATBR		FED-ID: 2231		BRIDGE: A2582	
<div><div>CLEARANCES OVER DECK</div><div><div>VERTICAL CLEARANCE TYPE**</div><div>VALUE</div><div>DIRECTION</div><div>DATE</div><div>COMMENT</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><div>CLEARANCES UNDER BRIDGE</div><div><div>RECORD #</div><div>ROUTE</div><div># LANES</div><div>DIRECTION OF TRAFFIC</div><div>RIGHT LATERAL CLEARANCE</div><div>LEFT LATERAL CLEARANCE</div><div>UR-ID</div></div><div><div>VERTICAL CLEARANCE TYPE**</div><div>VALUE</div><div>DIRECTION</div><div>DATE</div><div>COMMENT</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>									
STRUCTURE PAINT INFORMATION									
<div><div>CONDITION:GOOD</div><div>RUST AMOUNT : 7 = .2% OF SURFACE RUSTED</div><div>STEEL TONS : 39</div></div> <div><div><div>ORIGINAL PAINT</div><div>PAINT TYPE : NAME : PAINT COLOR : PAINT YEAR : 1974 MILS :</div></div><div><div>CONTRACT REPAINT</div><div>PAINT TYPE : NAME : PAINT COLOR : PAINT YEAR : MILS :</div></div><div><div>DEPARTMENT REPAINT</div><div>PAINT TYPE : C SYSTEM NAME : INORGANIC ZINC/VINYL PAINT COLOR : GREEN PAINT YEAR : 1990 MILS : 9</div><div>MANUFACTURE : SURFACE PREP :</div></div></div>									
REQUESTED WORK ITEMS									
GENERAL WORK COMMENTS:									
<div><div>RESPONSIBILITY</div><div>LOCATION</div><div>ITEM</div><div>CATEGORY</div><div>PRIORITY</div><div>DATE</div><div>WORK ITEM COMMENT</div></div>									
UTILITY ATTACHMENTS									
<div><div>UTILITY</div><div>OWNER</div><div>METHOD</div><div>MEASUREMENT TYPE</div><div>VALUE</div><div>NUMBER</div><div>UTILITY ATTACHMENT COMMENT</div></div>									
PROGRAM NOTES INFORMATION									
<div>DistrictAbbr = NW and Design_No = a2582 and County = BUCHANAN</div> <div><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></div>									

		Missouri Department of Transportation			September 09, 2022	
		State Bridge Inspection Report			8:01:13AM	
COUNTY: BUCHANAN		DISTRICT: NW		CLASS: STATBR	FED-ID: 2231	BRIDGE: A2582
<u>YEAR</u>	<u>PROJECT #</u>	<u>MONTH LET</u>	<u>YEAR LET</u>	<u>ITEMS</u>	<u>COMMENT</u>	
COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS					***ADVANCED SIGN INFORMATION***	
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.					SIGN #	SIGN TYPE
					1	
						PROBLEM
						PROBLEM DIRECTION
					OUTFALL INSPECTION INFORMATION	
					# OUTFALLS:	INSPECTOR:
					STATUS:	DATE:
					NOTES:	
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.						

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MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	7	

PILE DATA				
BENT NO.	1	2	3	4
Pile Type and size	10BP42	10BP42	10BP42	10BP42
Number	4	6	6	4
Approximate Length Ft.	50	25	20	50
Design Brg. Value TONS	33	40	40	33
* Hammer Energy Req'd Ft. lbs	7400	9000	9000	7400

* Minimum energy requirement of hammer based on plan length and design bearing value of piles.

All pile shall be driven to practical refusal at 1.3 times the design bearing value.

GENERAL NOTES:

Design Specifications: A.A.S.H.O. - 1961

Design Loading:

H 15-44 15 #/sq. ft. Future Wearing Surface
Earth 120 # Equivalent Fluid Pressure 30 #

Design Unit Stresses:

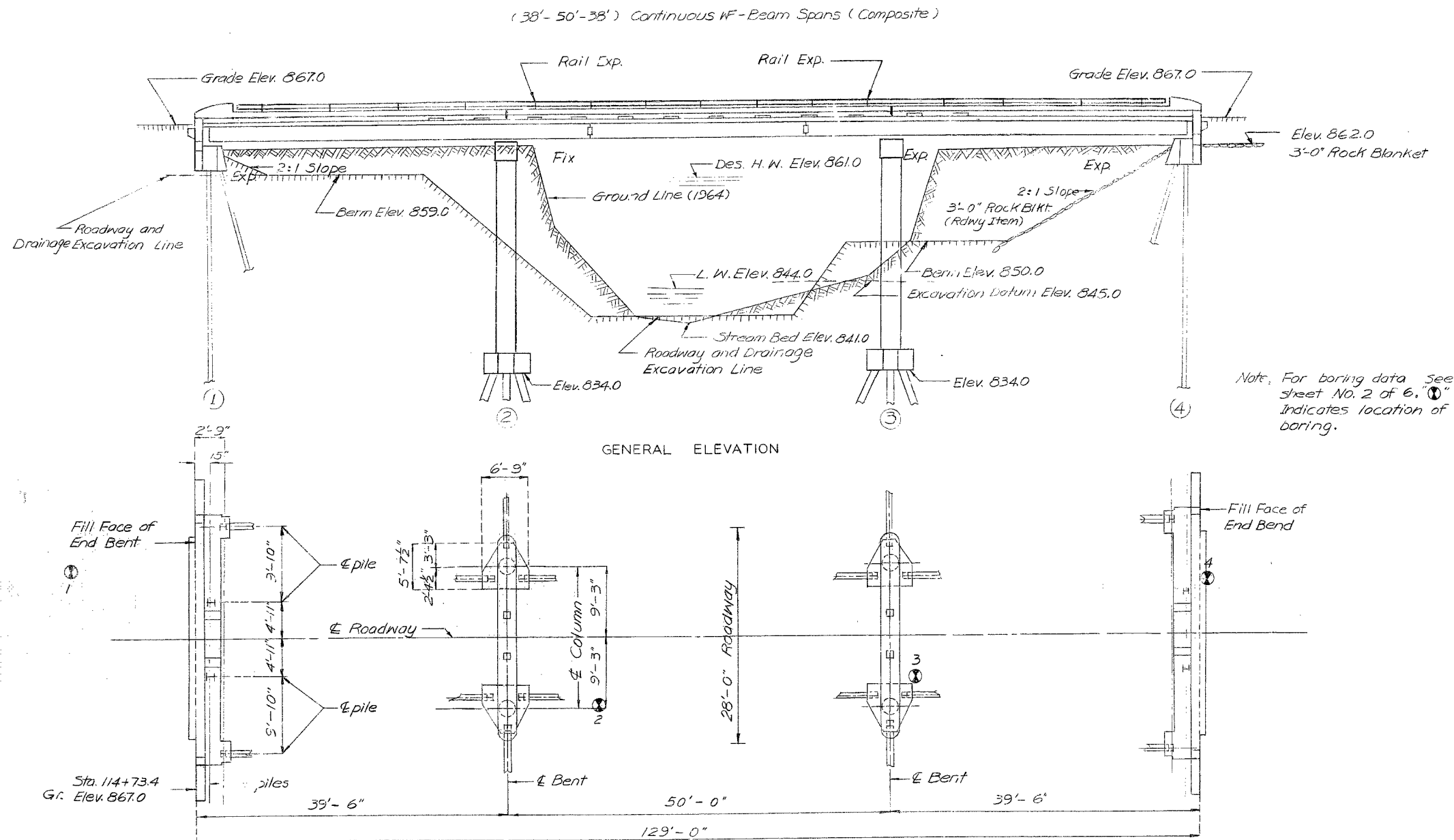
Class B Concrete (substructure) $f_c = 1,200$ psi
Class B1 Concrete (superstructure) $f_c = 1,600$ psi
Reinforcing Steel $f_s = 20,000$ psi
Structural Steel (A.S.T.M. A36-62T) $f_s = 20,000$ psi
Steel Pile (A.S.T.M. A36-62T) $f_b = 9,000$ psi

Surface Seal:

Superstructure deck to be surface sealed.

Fabricated steel:

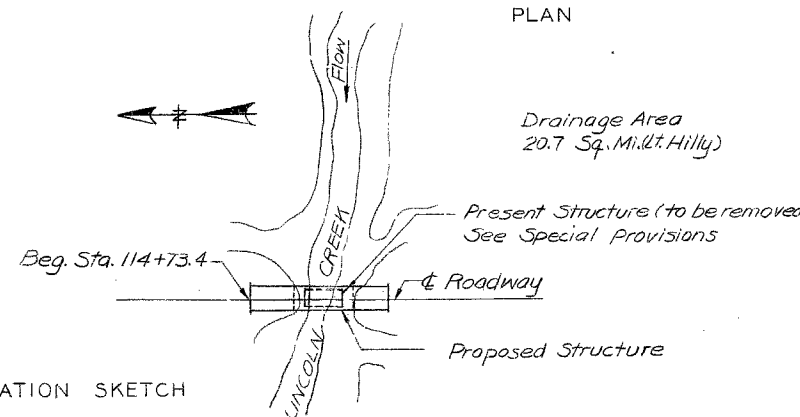
Field connections, High Strength Bolts $\frac{3}{4}" \phi$, holes $\frac{13}{16}" \phi$ except as noted.



Note: For boring data See sheet NO. 2 of 6. ① indicates location of boring.

ESTIMATED QUANTITIES			
ITEM	SUBSTR.	SUPERSTR.	TOTAL
Class 1 Excavation for Structures Cu.Yds.	70		70
Class 2 Excavation for Structures Cu.Yds.	104		104
Steel Piles in place (10") Lin.Ft.	610		610
Steel pile Cut-offs (10") Lin.Ft.	60		60
Class B Concrete Cu.Yds.	69.8		69.8
Class B1 Concrete Cu.Yds.		105.2	105.2
Reinforcing Steel Lb.	9460	30210	40370
Fabricated Structural Carbon Steel Lb.		42810	42810
Bridge Rail (Single Tube Type) Lin.Ft.		237	237

Note: No excavation will be allowed at end bent #1



LOCATION SKETCH

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

DESIGNED Sept. 1965 BY R.C. SHEN
DETAILED Sept. 1965 BY R.C. SHEN
CHECKED Feb. 1966 BY Tom

Sheet No. 1 of 6.

SEE FINAL PLANS BROWN-LINES

B.M. Elev. 861.62 - "o" on E. End N. Abut - 9.5' Lt.
Sta. 115+17 - U.S.G.S. Datum (1929 Adj.)

BRIDGE OVER LINCOLN CREEK

STATE ROAD FROM ROUTE 59 NORTH TO FILLMORE

ABOUT 8.3 MILES N.W. OF SAVANNAH

PROJECT NO. S-91(4) SH STA. 114+73.4

ANDREW COUNTY

SUBMITTED BY: D.B. Jenkins DATE: 4/22/66

APPROVED BY: M.J. Miller DATE: 4/22/66

STD. 54.00
A-1782

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	8	



Note: For location of borings see sheet No. 1 of 6.
Bottom of borings on limestone.

COMPLETE BILL OF MATERIALS FOR REINFORCING STEEL

NO.	SIZE	LENGTH	MARK	LOCATION	BENDING SKETCHES & CUTTING DIAGRAMS	NO.	SIZE	LENGTH	MARK	LOCATION																												
End Bents No. 1 & 4																																						
16	#6	34'-6"	H1	Beam																																		
4	#6	32'-6"	H2	"																																		
4	#6	30'-9"	H3	Backwall																																		
12	#6	6'-0"	H4	Wing																																		
8	#6	9'-3"	T1	Wing																																		
8	#6	7'-9"	T2	"																																		
62	#4	10'-9"	U1	Beam																																		
16	#4	3'-3"	U2	"																																		
16	#7	7'-3"	U3	Buttress																																		
4	#7	6'-0"	U4	"																																		
124	#5	2'-9"	V1	Backwall																																		
8	#4	8'-3"	V2	Wing																																		
4	#4	6'-0"	V3	Backwall																																		
8	#6	2'-9"	V4	Buttress																																		
Int. Bents No. 2 & 3																																						
12	#8	11'-6"	H5	Beam																																		
8	#8	26'-9"	H6	"																																		
4	#6	26'-6"	H7	"																																		
14	#10	24'-6"	H8	"																																		
16	#7	6'-3"	H9	"																																		
100	#3	8'-0"	P1	Column																																		
36	#8	26'-9"	V5	"																																		
70	#4	10'-3"	U5	Beam																																		
4	#4	3'-3"	U6	"																																		
4	#4	3'-6"	U7	"																																		
4	#4	8'-0"	U8	"																																		
36	#8	4'-0"	D1	Footings																																		
16	#6	7'-9"	D2	"																																		
8	#6	7'-0"	D3	"																																		
Superstructure																																						
256	#5	3'-6"	C1	curb																																		
8	#6	39'-3"	C2	"																																		
8	#6	26'-0"	C3	"																																		
8	#5	4'-9"	R1	End Post																																		
4	#5	5'-6"	R2	"	<table> <tr> <th>MARK</th><th>A</th><th>B</th><th>C</th></tr> <tr> <td>R2</td><td>2'-1"</td><td>7 1/2"</td><td>22"</td></tr> <tr> <td>R3</td><td>2'-5 1/2"</td><td>7 1/2"</td><td>2'-2 1/2"</td></tr> <tr> <td>R4</td><td>2'-8 1/2"</td><td>7 1/2"</td><td>2'-5 1/2"</td></tr> <tr> <td>R5</td><td>2'-10"</td><td>7 1/2"</td><td>2'-7"</td></tr> <tr> <td>R6</td><td>2'-11 1/2"</td><td>7 1/2"</td><td>2'-8 1/2"</td></tr> <tr> <td>R7</td><td>2'-13 1/2"</td><td>7 1/2"</td><td>2'-10 1/2"</td></tr> </table>	MARK	A	B	C	R2	2'-1"	7 1/2"	22"	R3	2'-5 1/2"	7 1/2"	2'-2 1/2"	R4	2'-8 1/2"	7 1/2"	2'-5 1/2"	R5	2'-10"	7 1/2"	2'-7"	R6	2'-11 1/2"	7 1/2"	2'-8 1/2"	R7	2'-13 1/2"	7 1/2"	2'-10 1/2"					
MARK	A	B	C																																			
R2	2'-1"	7 1/2"	22"																																			
R3	2'-5 1/2"	7 1/2"	2'-2 1/2"																																			
R4	2'-8 1/2"	7 1/2"	2'-5 1/2"																																			
R5	2'-10"	7 1/2"	2'-7"																																			
R6	2'-11 1/2"	7 1/2"	2'-8 1/2"																																			
R7	2'-13 1/2"	7 1/2"	2'-10 1/2"																																			
4	#5	6'-3"	R3	"																																		
4	#5	6'-9"	R4	"																																		
4	#5	7'-0"	R5	"																																		
8	#5	7'-3"	R6	"																																		
286	#5	5'-3"	R7	parapet																																		
16	#5	27'-0"	R8	"																																		
8	#5	25'-9"	R9	"																																		
32	#5	11'-9"	R10	"																																		
562	#5	30'-6"	S1	Slab																																		
155	#4	26'-9"	S2	"																																		
144	#5	33'-3"	S3	"																																		
60	#4	16'-0"	S4	"																																		

COUNTY

2000年12月

A - 1732

DETAILED SEPT. 1965 BY SHEN & BUNCH
CHECKED Feb. 1966 BY Tam

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

Sheet No. 2 of 6.

NO CONSTRUCTION CHANGES

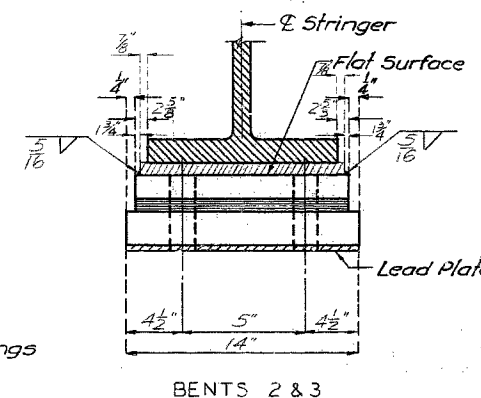
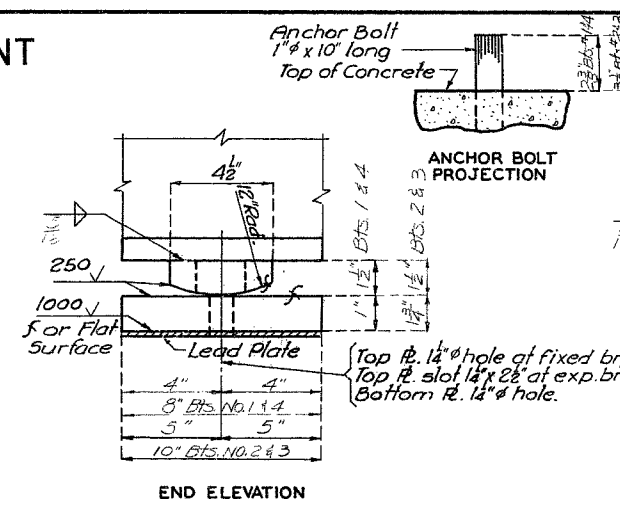
A - 1732

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
5	MO.		19	9	

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

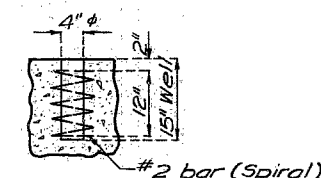
24

A-1782

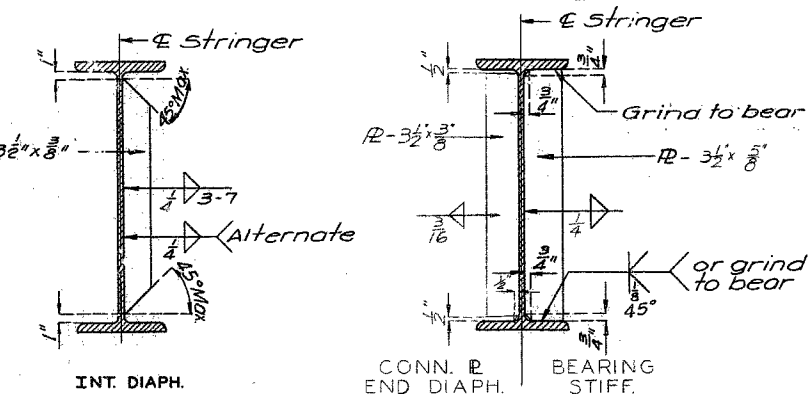


TYPE "C" BEARINGS
(Estimated Weight 1088#)

Lead plates under bearings shall be approximately 1/8" thickness and weigh 8#/sq. ft. Cost of lead plates shall be included in price bid for other items. "Estimated weight" does not include weight of anchor bolts.



Where flat surface is indicated, tolerance shall be .003 in/in in any direction.



② & ③

2-5pg. @ 3"

12"

Symm. abt. E. Splice

Fig. Ga. = 5"

2-8"x9"x18 1/2"

2-Fills 3"x6"xJ"

2-Bars 3"x6"xJ"

3" 4" 3"

3-2s-12 1/2"x16"x17"

2-Bars 3"x6"xJ"

2-Fills 3"x6"xJ"

Fill 8"x9"x18 1/2"

2-8"x9"x18 1/2"

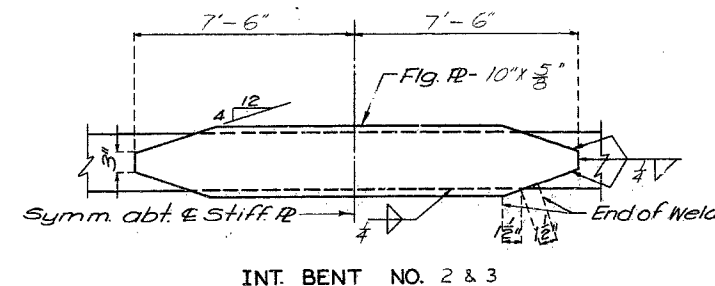
2" Max. Note: 15/16" Ø Reamed Holes

The drawing consists of two views of a welded stud connection:

- ELEVATION:** A top-down view showing a horizontal flange with a central vertical stud. The stud is labeled "4" x 3/4" Welded Stud". The top surface of the flange is labeled "Top of flange".
- Side View:** A cross-sectional view showing the stud passing through the flange. The flange has a thickness of 2". The stud has a diameter of 3/4". The connection is labeled "E Unit" and "E Stringer".

DETAILS OF SHEAR CONNECTORS

Sheet No. 4 of 6.



STATE ROAD FROM ROUTE 59 NORTH TO FILLMORE
ABOUT 8.3 MILES NW OF SAVANNAH

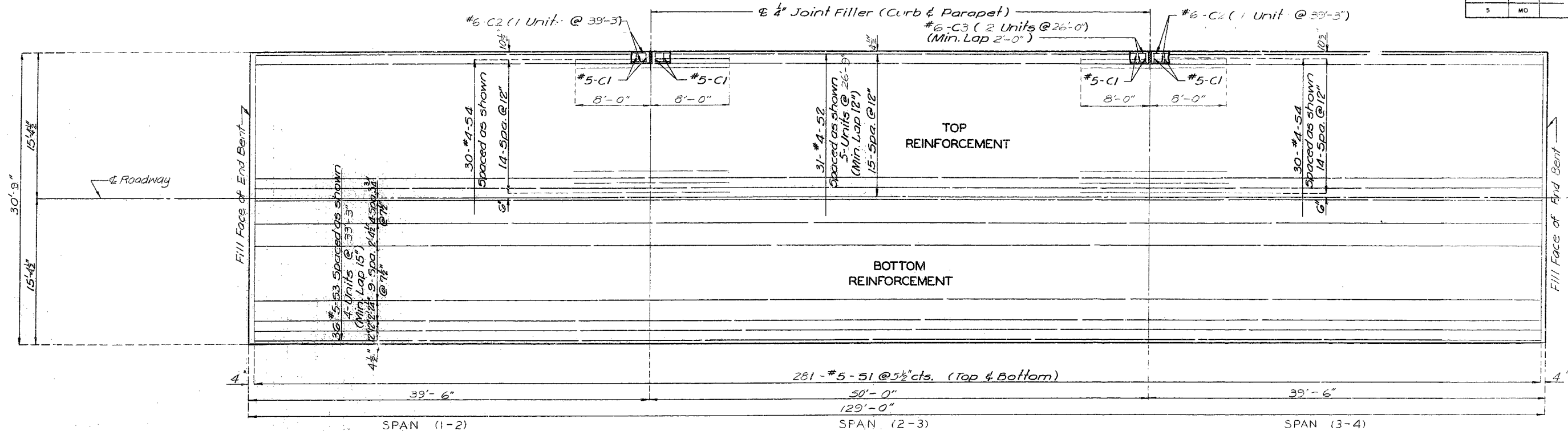
ANDREW *Andrew* COUNTY

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

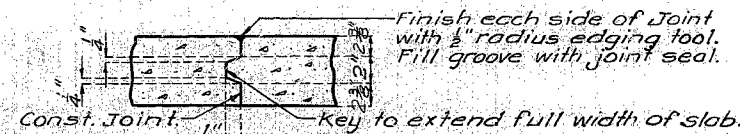
NO CONSTRUCTION CHANGES

MISSOURI STATE HIGHWAY DEPARTMENT

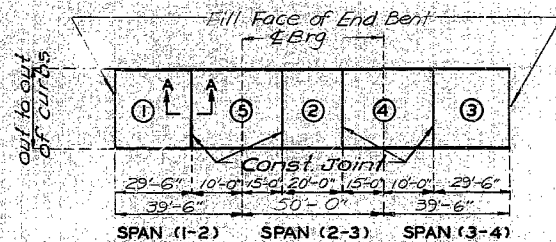
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO		19	11	



PLAN OF SLAB SHOWING REINFORCEMENT



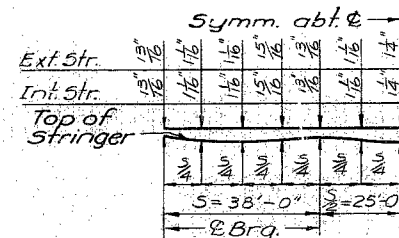
SECTION A-A



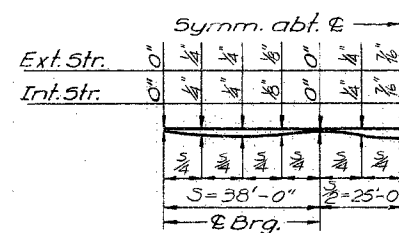
Basic Sequence	Sequence of Pours				
	1	2	3	4	5
Alternate "A" Pours	1	5+2	4+3		
Alternate "B" Pours	1+5+2	4+3			
Alternate "C" Pours	1+5+2+4+3				

Note: The contractor shall observe the basic pouring sequence and shall pour and satisfactorily finish the slab pours at a rate of not less than 12 cubic yards per hour. However, he may use one of the longer alternate pours if he elects to use an approved oscillating screed type, self-propelled mechanical finishing machine and can demonstrate to the engineer that he can pour and satisfactorily finish the slab pours at a rate of not less than 25 cubic yards per hour. Finishing machine loads will not be permitted on concrete less than 48 hours old.

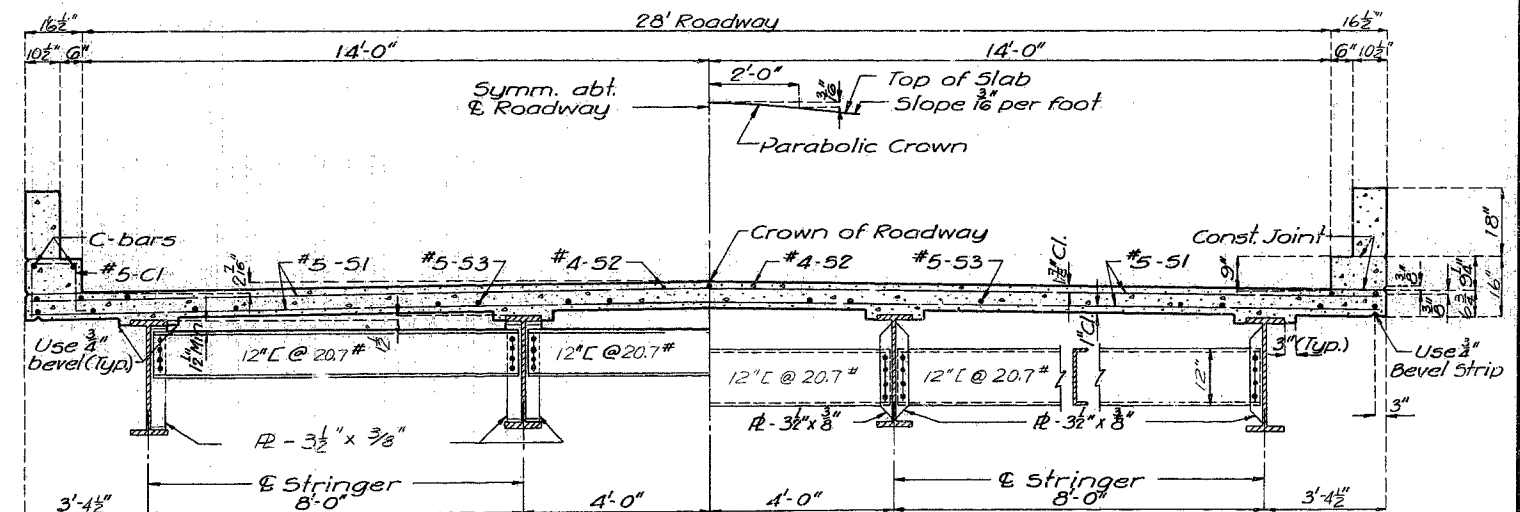
SLAB POURING SEQUENCE



THEORETICAL SLAB HAUNCHING DIAGRAM

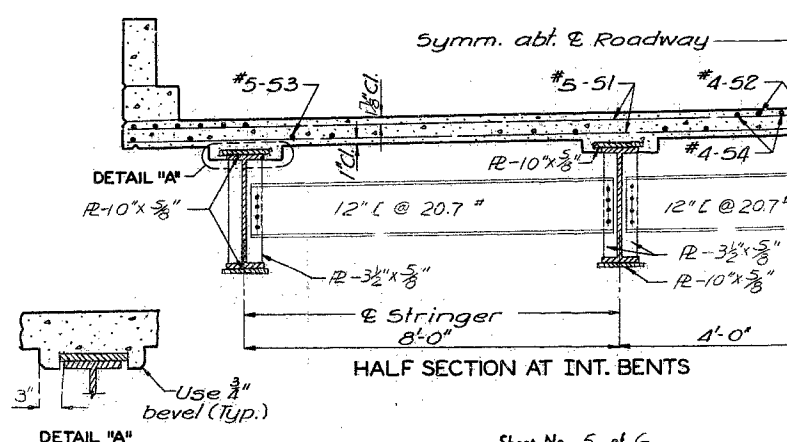


DEAD LOAD DEFLECTION



HALF SECTION NEAR END DIAPH.

HALF SECTION NEAR INT. DIAPH.



HALF SECTION AT INT. BENTS

Note: For details and reinforcement of curb and parapet not shown see sheet No. 6 of 6.

BRIDGE OVER LINCOLN CREEK
STATE ROAD FROM ROUTE 59 NORTH TO FILLMORE
ABOUT 8.3 MILES N W OF SAVANNAH
PROJECT NO. S-91(4) SH STA. 114 + 73.4
ANDREW COUNTY

Sheet No. 5 of 6.

A-1782

NO CONSTRUCTION CHANGES

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

DESIGNED Sept. 1963 BY R.C. Shen
CHECKED Feb 1966 BY Tam

NO. 41, 28, 14
Oct 1964
Revised
Dec 1964

249

GENERAL NOTES:

All handrail posts shall be set normal to grade. Aluminum tube handrail shall be bent to conform to vertical and horizontal alignment of parapet.

Aluminum washer shims between top of parapet and post base may be used for adjusting handrail alignment. Maximum thickness of shims to be 1/8". Where more tilting of post is required for proper alignment, concrete bearing areas shall be ground down.

All parts of handrail, except anchor bolts, nuts, washers, and set screws are to be of aluminum material.

The contract unit price per linear foot of "Bridge Rail" shall include furnishing and erecting the handrail complete with anchor bolts, shims and insulating compound.

All fillets 1/4" except as noted.

All drafts 3° except as noted.

Pipe rail to be fabricated in two or three panel lengths unless otherwise approved.

Omit set screw on side near filled joint in parapet at all expansion posts.

Top of curbs and parapets to be built parallel to grade with curb and parapet joints (except at end posts) normal to grade.

All exposed edges of end posts shall have 1/2" bevel. All exposed edges of curbs and parapets shall have 1/4" radius or 1/8" bevel.

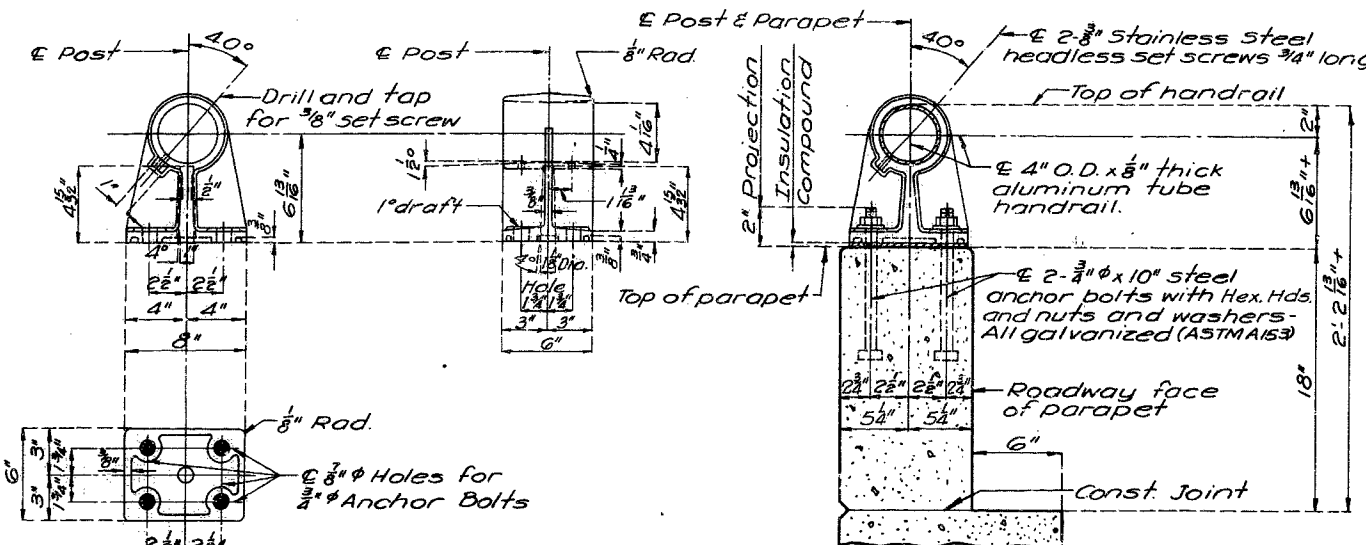
If the contractor desires, he may use drive fit cast aluminum end caps in lieu of welded aluminum closure plates.

Integrally cast test coupons and a coat of clear lacquer specified in Std. Spec. 56.2.4 and 56.3.5 respectively will not be required for these rail posts.

Concrete end posts to be vertical.

MISSOURI STATE HIGHWAY DEPARTMENT

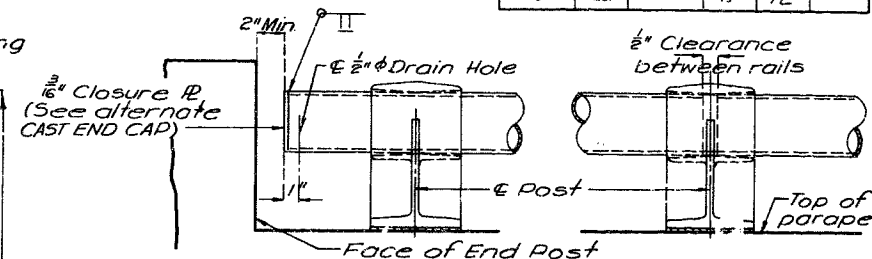
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	12	



POST DETAILS

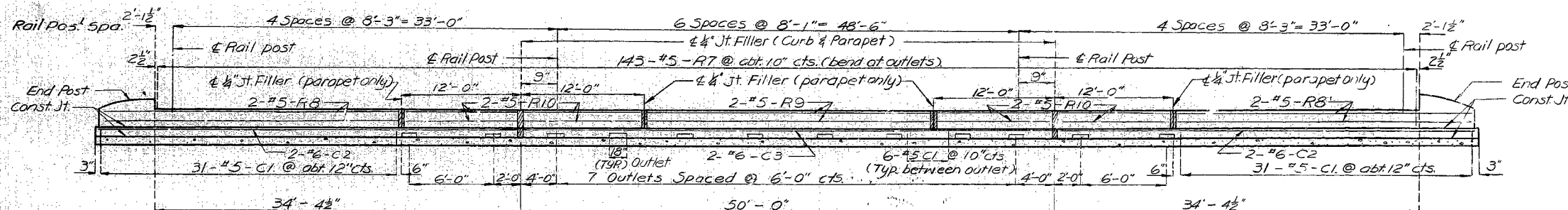
SECTION THRU HANDRAIL

SINGLE TUBE ALUMINUM RAILING

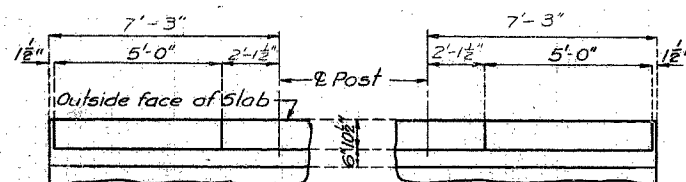


TYPICAL HANDRAIL DETAILS

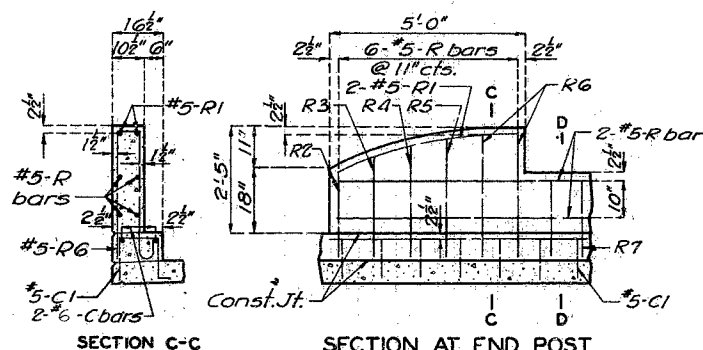
FILLED JOINT DETAILS



SECTION NEAR CURB AND PARAPET

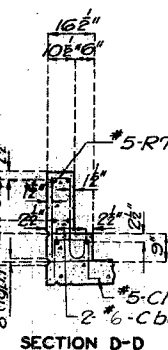


PLAN OF SLAB SHOWING END POST

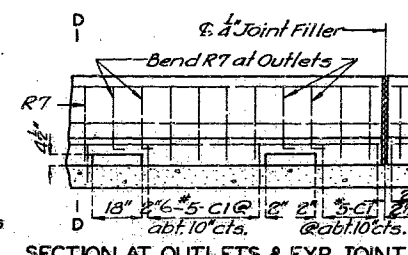


SECTION C-C

SECTION AT END POST

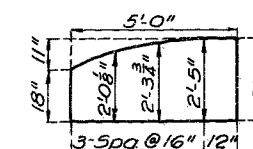


SECTION D-D



SECTION AT OUTLETS & EXP. JOINT

Note: For horizontal curb and parapet bars use minimum lap of 15" for #5 and 18" for #6.



END POST ORDINATES

BRIDGE OVER LINCOLN CREEK
STATE ROAD FROM ROUTE 59 NORTH TO FILLMORE
ABOUT 8.3 MILES N.W. OF SAVANNAH
PROJECT NO. S-91(4) SH STA. 14+73.4
ANDREW COUNTY

A-1782

NO CONSTRUCTION CHANGES

DETAILED Sept. 1965 BY P.C. SHEN
CHECKED Feb. 1966 BY Tam

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

Revised
Nov 1963
No. 15.2

250

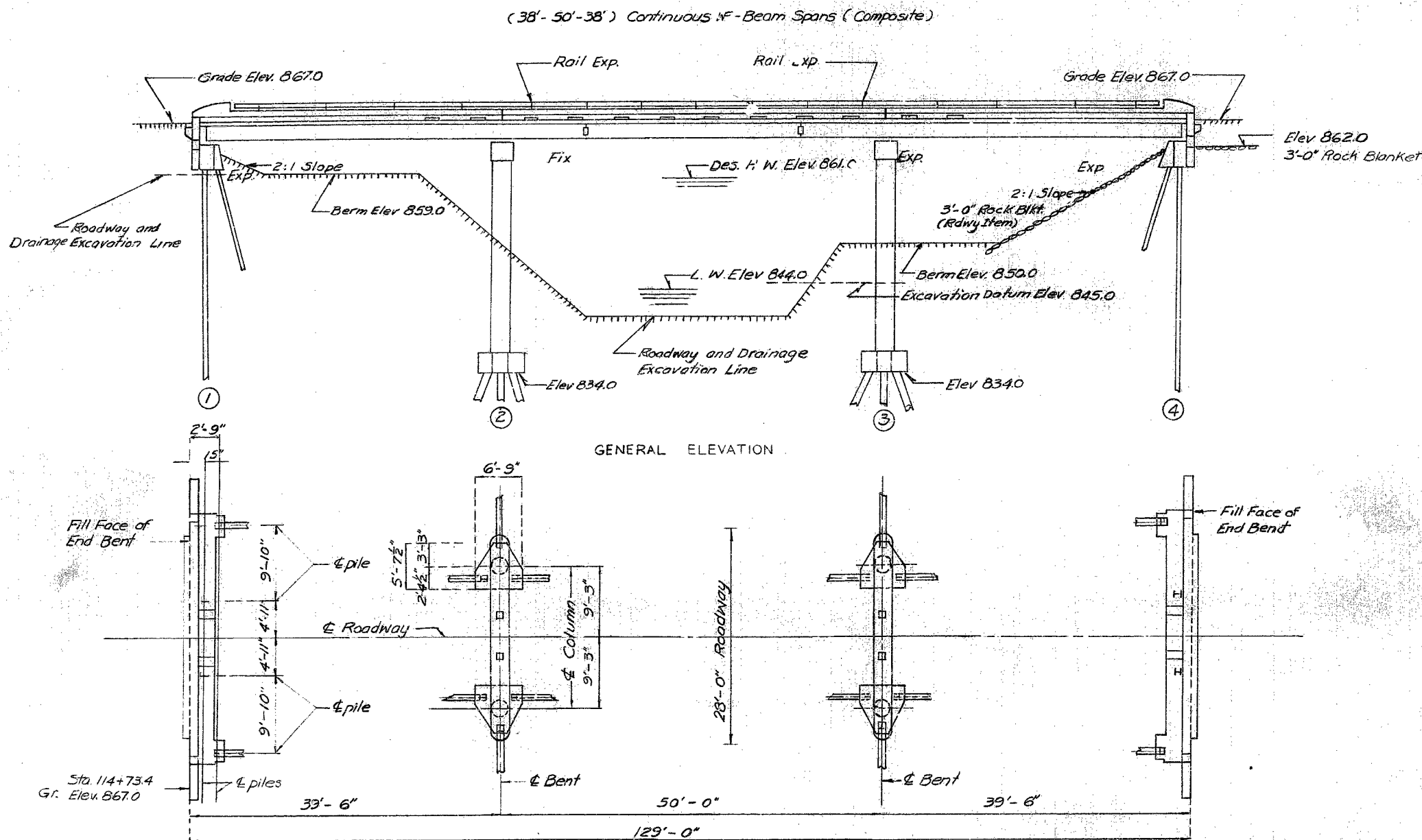
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
S	MO.	S-91(4)	19	6	

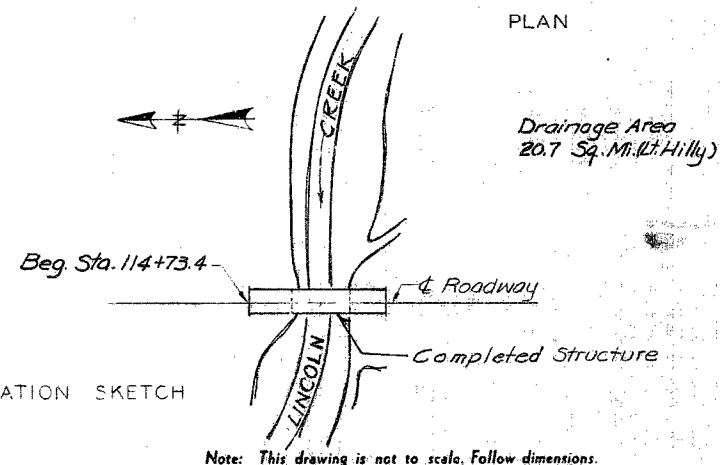
PILE DATA				
BENT NO.	1	2	3	4
Pile Type and size	10BP42	10BP42	10BP42	10BP42
Number	4	6	6	4
Approximate Length Ft.	50	25	20	50
Design Brg. Value TONS	33	40	40	33
* Hammer Energy Req'd. Ft-lbs	7400	3000	3000	7400

* Minimum energy requirement of hammer based on plan length and design bearing value of piles.
All pile were driven to practical refusal at 1.3 times the design bearing value.

GENERAL NOTES:
Design Specifications: A.A.S.H.O. - 1961
Design Loading:
H 15-44 15 #/sq. ft. Future wearing surface
Earth 120# Equivalent Fluid Pressure 30#
Design Unit Stresses:
Class B Concrete (substructure) $f_c = 1,200$ psi
Class B1 Concrete (superstructure) $f_c = 1,600$ psi
Reinforcing Steel $f_s = 20,000$ psi
Structural Steel (A.S.T.M. A36-62T) $f_s = 20,000$ psi
Steel Pile (A.S.T.M. A36-62T) $f_b = 9,000$ psi
Surface Seal:
Superstructure deck was surface sealed
Fabricated steel:
Field connections, High Strength Bolts $\frac{3}{4}"$,
holes $\frac{1}{16}"$ except as noted



FINAL QUANTITIES			
ITEM		SUBSTR.	SUPERSTR. TOTAL
Class 1 Excavation for Structures	Cu Yds.	64	64
Class 2 Excavation for Structures	Cu Yds.	117	117
Steel Piles in place (10')	Lin Ft.	658	658
Steel pile cut-offs (10')	Lin Ft.	60	60
Class B Concrete	Cu Yds.	71.5	71.5
Class B1 Concrete	Cu Yds.		108.2 108.2
Reinforcing Steel	Lb.	3460	30910 40370
Fabricated Structural Carbon Steel	Lb.		43090 43090
Bridge Rail (Single Tube Type)	Lin Ft.		237 237
Removal of Bridges	Lump Sum		1



B.M. Elev. 867.54 "D" on S.E. Cor. East Wing
End Bent No. 4 16' L.F. Sta 116+02
BRIDGE OVER LINCOLN CREEK
STATE ROAD FROM ROUTE 39 NORTH TO FILLMORE
ABOUT 8.3 MILES N.W. OF SAVANNAH
PROJECT NO S-91(4) SH STA. 114+73.4
ANDREW FINISHED COUNTY

DESIGNED Sept. 1965 BY R.C. SHEN
DETAILED Sept. 1965 BY R.C. SHEN
CHECKED Feb. 1966 BY Tam

SUBMITTED BY D.B. Jenkins DATE 4/22/66
APPROVED BY W.J. Miller DATE 4/22/66

FINISHED
S.D. 54.00
A-1782

Sheet No. 1A of 1

FINAL PLANS

STRUCTURAL REHABILITATION CHECKLIST

Bridge No.: **A1782**

Job No.: **JNW0008**

Route: **H**

Over: **Lincoln Creek**

County: **Andrew**

Date of Field Check: **11/08/2022**

* * * Please include photographs for all items that apply. * * *

1

OVERLAY

* Type of existing overlay: ☐ None ☒ Asphalt ☐ Low Slump ☐ Silica Fume ☐ Latex ☐ Epoxy ☐ Other: _____

* Existing overlay thickness: _____ " * Year overlay was applied: _____ ☒ Unknown

* % of overlay repaired or patched: _____ % * Replace overlay: ☐ Yes ☐ No

* Notes: _____

Picture **DSCN3348, DSCN3352**
#

2A

DECK REPAIRS (Deck repair quantities are required even if a Deck Test request has been ordered for this structure.)

* Half-sole repairs: _____ sq. ft. (round up to the nearest 50 sq. ft.) * Full depth repairs: _____ sq. ft. (round up to the nearest 50 sq. ft.)

* Existing deck repair (patching): _____ sq. ft. (round up to the nearest 25 sq. ft.)

* Slab edge repairs: _____ lin. ft. (covers the outer 4" of the slab edge) * Superstructure repair (Unformed): _____ sq. ft. (covers the remaining slab cantilever beyond the outer 4")

* Clean & epoxy coat slab edge: _____ lin. ft. (in lieu of edge repairs) * Cantilever replacement: _____ lin. ft.

* Total surface hydro demolition of bridge deck: ☐ Yes ☐ No * Full deck replacement (redeck): ☒ Yes ☐ No ☐ Optional (half-sole, full depth and exist. deck repair quantities still required)

* Deck repairs with voided tube replacement: ☐ Yes ☐ No * Superstructure replacement: ☐ Yes ☒ No ☐ Optional (minimum of 10% of half-sole repair quantity) _____ sq. ft. * Full bridge replacement: ☐ Yes ☒ No ☐ Optional (Deck repair quantities required for cost comparison of alternatives)

* How were the quantities obtained? ☐ Visual ☐ Bridge Inspection Report ☐ Sounded ☐ Other _____

* Notes: _____

Picture **DSCN3348, DSCN3352**
#

DECK REPAIRS CONT.*** ISSUES / PROBLEMS WITH PRECAST PRESTRESSED DECK PANELS**

Spans	Location in Span						Deterioration		Describe
	At Panel Jt.	Btwn (mid) Panel Jt.	End		Mid	End	Type	Amount	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	

* Notes: **N/A**

(Deterioration may include water saturation, efflorescence, rust staining, cracking, spalling, exposed steel, disintegration of panel edges at joints, etc. Typically observed at or near panel joints. The location and "Type" of deterioration should be recorded.)

Picture
#

APPROACH SLABS* Is there a bridge approach slab in place? ☐ Yes ☐ No * Type: ☐ Concrete ☒ Asphalt ☐ Other* Is there rdwy. approach pavement in place? ☒ Yes ☐ No * Type: ☐ Concrete ☒ Asphalt ☐ Other* Is the approach slab sinking at the end bent? ☐ N/A ☐ Yes ☐ No

* Are repairs needed to the bridge approach slab driving surface? ☐ Yes ☐ No
(Typically a roadway item but will be reported to District on the Bridge Memorandum.)

* Full replacement of bridge approach slab? ☒ Yes ☐ No **Both directions**

* Notes:

Picture **DSCN3348**
#

4

SLAB DRAINS

* Is the drainage system working adequately? ☒ Yes ☐ No

* Recommendations: _____

* Notes: _____

Picture **DSCN3348**

#

5

CURBS & RAILS

* Existing curb (left side): ☐ Safety Barrier Curb ☒ Curb/parapet ☐ Blockouts ☐ Thrie Beam ☐ Baluster ☐ Steel Channel

☐ Other _____ ☒ Handrail ☐ Fence _____

* Does curb need repair ☐ Yes ☐ No

* Curb repair _____ lin. ft.

* Remove hand rail ☐ Yes ☐ No

* Add curb blockout ☐ Yes ☐ No

* Existing curb (right side): ☐ Safety Barrier Curb ☒ Curb/parapet ☐ Blockouts ☐ Thrie Beam ☐ Baluster ☐ Steel Channel

☐ Other _____ ☒ Handrail ☐ Fence _____

* Does curb need repair ☐ Yes ☐ No

* Curb repair _____ lin. ft.

* Remove hand rail ☐ Yes ☐ No

* Add curb blockout ☐ Yes ☐ No

* Existing median curb: Type: _____ Width _____ " Height _____ "

* Does curb need repair ☐ Yes ☐ No

* Curb repair _____ lin. ft.

* Approach rail attachment: ☒ None ☐ Not attached ☐ 4 Hole ☐ 5 Hole ☐ Turn-down ☐ Other _____

* If the existing handrails will be removed, does the local maintenance supervisor wish to keep them? ☐ Yes ☒ No

Storage address: location: _____

address: _____

city: _____ state: _____ zip: _____

* Notes: _____

Picture **DSCN3348**

#

6

EXPANSION DEVICES

Bent	Type	Recommendations			Gap Left	Gap Right	Temperature & Other Info
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	

* Notes: **N/A**Picture
#

7

BEARINGS

Bent	Coating	Recommendations				Notes (indicate which bearings at each bent)
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
N 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

* Notes:

Picture # (Provide Pictures of Each Bearing)

DSCN3364, DSCN3365, DSCN3366, DSCN3368, DSCN3370, DSCN3371, DSCN3372, DSCN3373, DSCN3374, DSCN3377, DSCN3378, DSCN3379, DSCN3380, DSCN3382, DSCN3386, DSCN3387, DSCN3388, DSCN3389

8

COATING SYSTEM (PAINT)* Existing coating system: _____ ☐ green ☒ gray ☐ other _____* Date last coated: **1967*** Is existing coating peeling? ☐ Yes (Overcoat is not an option) ☐ No

* Coating recommendation:

☒ Blast clean & recoat all steel ☐ Clean & overcoat all steel☐ Blast clean & recoat only at joint location ☐ Blast & recoat at joint locations and clean & overcoat all other steel

Note: Pull-off test required for overcoat (Calcium Sulfonate) option. Bridge Division will request pull-off tests.

* Notes: **Exterior girders - top flange are rusty (Paint exterior girders?)**Picture **DSCN3381**
#

SUPERSTRUCTURE REPAIRS (Repairs needed not previously stated.)**Concrete Slab Superstructure or Girder:** (above the bearings) _____(Example: Deck solid slabs, voided slabs, box girders,
deck girders & prestressed girders) _____**Steel:** (Example: Beams, stringers, girders, diaphragms, cross-frames, misc. steel)**Member** (Check all that apply) (Attach pictures)**Describe & Locate**

_____	<input type="checkbox"/> Section Loss _____ %	<input type="checkbox"/> Cracks _____ in.	_____
_____	<input type="checkbox"/> Section Loss _____ %	<input type="checkbox"/> Cracks _____ in.	_____
_____	<input type="checkbox"/> Section Loss _____ %	<input type="checkbox"/> Cracks _____ in.	_____
_____	<input type="checkbox"/> Section Loss _____ %	<input type="checkbox"/> Cracks _____ in.	_____

Notes: **N/A**Picture
#**SUBSTRUCTURE REPAIR**

<u>Bent</u>	<u>Formed Repair</u>	<u>Unformed Repair</u>	<u>Seal Concrete</u> <u>Beam Cap Bts.</u>	<u>Coat Exposed Pile</u> <u>@ Int. Pile Cap Bts.</u>	<u>Describe (Beam, Backwall, Wing, etc.)</u>
_____	_____ sq. ft.	_____ sq. ft.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
_____	_____ sq. ft.	_____ sq. ft.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
_____	_____ sq. ft.	_____ sq. ft.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
_____	_____ sq. ft.	_____ sq. ft.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
_____	_____ sq. ft.	_____ sq. ft.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____

* Does the structure need graffiti protection? ☒ No ☐ Bottom 8' of Concrete ☐ End Bents ☐ Other _____

* Notes: _____

Picture
#

11						
SIGNS, SIGNALS &/OR LIGHTING ATTACHED TO STRUCTURE						
*	Are there signs attached directly to this structure?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	quantity _____	location _____	
*	Describe proposed work to be done to signs. _____					
*	Are there signals attached directly to this structure?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	quantity _____	location _____	
*	Describe proposed work to be done to signals. _____					
*	Is there aviation lighting attached to this structure?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Red _____ <i>qty.</i>	<input type="checkbox"/> Green _____ <i>qty.</i>
*	Is there navigational lighting attached to this structure?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Red _____ <i>qty.</i>	<input type="checkbox"/> Green _____ <i>qty.</i>
*	Is there roadway lighting attached to this structure?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A		
*	Describe proposed work to be done to lighting. _____					
*	Notes: N/A _____					

Picture #

UTILITIES ATTACHED TO STRUCTURE									
Type			Qty.	Size	Owner	Condition			
<input type="checkbox"/> Conduit	<input type="checkbox"/> Pipeline	<input type="checkbox"/> Other				<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove
<input type="checkbox"/> Conduit	<input type="checkbox"/> Pipeline	<input type="checkbox"/> Other				<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove
<input type="checkbox"/> Conduit	<input type="checkbox"/> Pipeline	<input type="checkbox"/> Other				<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove
<input type="checkbox"/> Conduit	<input type="checkbox"/> Pipeline	<input type="checkbox"/> Other				<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove

* Notes: **N/A**

13

CATHODIC PROTECTION SYSTEM

* Is there a cathodic system on this structure? ☐ Yes ☒ No ☐ Remove ☐ Do not alter ☐ Abandon in place (grooved system)

* Is it on and working? ☐ Yes ☐ No ☐ Unknown _____

* Notes: _____

Picture

#

14

CHANNEL ALIGNMENT, SLOPE PROTECTION & SCOUR

* Is channel aligned to bridge opening? ☒ Yes ☐ No Describe _____

* Is drift a continual problem? ☐ Yes ☒ No Describe & Locate _____

* Is erosion a problem? ☒ Yes ☐ No Describe & Locate **Both spill slopes** _____

* Describe slope protection in place. **None** _____

* Scour	At Footing	At Piling	Depth	Bent	Recommendation
	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____

* Describe needed work. _____

Picture **DSCN3384, DSCN3375**

#

15

TRAFFIC LANES

* Number of lanes striped: on structure **2** under structure _____

* Shoulder width: ☐ None on structure _____ (left) (right) under structure _____ (left) (right)

* Sidewalk widths: on structure _____ (left) (right) under structure _____ (left) (right)

* Median width: on structure _____ under structure _____

* Proposed improvements for lanes/shoulders/sidewalks: _____

Picture **DSCN3348**

#

16

GENERAL AREA CONDITIONS

* Primary area: ☐ Commercial ☐ Industrial ☐ Residential ☒ Agricultural ☐ Military ☐ Other _____

* Posted speed limit on structure: 55 mph

* Posted load on structure: _____ tons @ _____ mph ☒ NA

Single Unit: _____ tons @ _____ mph ☒ NA

Semi (tractor/trailer): _____ tons @ _____ mph ☒ NA

* Are both signs in place?

☐ Yes ☐ No

* Do pedestrians and/or bicyclists regularly use this structure? ☐ Yes ☐ No ☐ Undetermined

* Notes: _____

Picture **DSCN3348**

#

17

MAINTENANCE

* What work has been done to this structure that may not be reflected on existing bridge plans? _____

Various patching of the deck

Picture **DSCN3605**

#

18

ADDITIONAL FIELD NOTES

Picture

#

19

STAGING / DETOUR

* **Traffic Control:** ☒ Close structure ☐ Stage construction on structure ☐ Cross over traffic to adjacent structure ☐ Detour

☐ Other option _____

* Define probable detour route. _____

20

PERSONS ASSISTING WITH CHECKLIST

Name Joyce Reynolds Title Project Manager Ph. (816) 387 - 2411

Name Bryce Acton Title District Bridge Engineer Ph. (816) 390 - 3641

Name _____ Title _____ Ph. () -

Name _____ Title _____ Ph. () -

Name _____ Title _____ Ph. () -

21

REQUIRED SIGNATURES

I have reviewed the information on this checklist and believe it to be as accurate as possible.

Name _____ Date _____
Transportation Project Manager

Name Bryce Acton Date 12-6-2022
District Bridge Engineer

The structural rehabilitation checklist indicates how the bridge is functioning and aging.

All deterioration should be noted, even if it is known that the work will not be completed under the proposed project.

Send **NEW** Structural Rehabilitation Checklist by email

To: "Bridge Survey Processor"

Cc: Structural Project Manager or Structural Resource Manager

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	12	

GENERAL NOTES:

Design Specifications: A.A.S.H.O. - 1965

Design Loading:

H-15-44, 15 #/sq. ft. Future Wearing Surface
Earth 120# Equivalent Fluid Pressure 30#

Fatigue Stress: Case II

Design Unit Stresses:

Class B Concrete (substructure) $f_c = 1,200$ psi
Class B1 Concrete (superstructure) $f_c = 1,600$ psi
Reinforcing Steel $f_s = 20,000$ psi
Structural Steel (A.S.T.M. A36-66) $f_s = 20,000$ psi

Surface Seal:

Superstructure deck to be surface sealed.

Fabricated Steel:

Field connections, High Strength Bolts $\frac{3}{4}" \phi$, holes $\frac{1}{16}" \phi$ except as noted.

Paint:

Shop, none; Field by state forces, except as noted in Std. Spec. 55.4.10.2.

All exposed surfaces of steel shells for cast-in-place piles shall be painted in accordance with Std. Spec. 55.4.10.

PILE DATA				
BENT NO.	1	2	3	4
Type	Trestle	Trestle	Trestle	Trestle
Kind	C.I.P.	C.I.P.	C.I.P.	C.I.P.
Number	5	5	5	5
Approximate Length Ft.	55	50	50	45
Design Bearing Tons	32	30	30	32
Min Tip Penetration Elev.	912.0	907.0	907.0	912.0
Pile Standard	52.02	52.02	52.02	52.02
Hammer Energy required Ft.Lbs.	8,000	8,000	8,000	8,000

Minimum energy requirement of hammer based on plan length of piles.
All piles shall be driven to the minimum penetration and not less than the design bearing noted.

ESTIMATED QUANTITIES			
ITEM	SUBSTR.	SUPERSTR.	TOTAL
Cast-In-Place Concrete Piles Lin. Ft.	1,000		1,000
Class B Concrete Cu. Yd.	42.6		42.6
Class B1 Concrete Cu. Yd.		99.2	99.2
Reinforcing Steel Lb.	4,910	26,680	31,590
Fabricated structural Carbon Steel Lb.		48,010	48,010
Bridge Rail (Single Tube Type) Lin. Ft.		229	229
Removal of Bridge Lump Sum			1

Note: Cost of any required excavation for bridge will be included in price bid for other items.

B.M. El. 944.24 - El. 952.50 (U.S.G.S. 1929 Adj.) on S.E. Corner Concrete wall 44.6' Rt. - Sta. 195 + 12

BRIDGE OVER UPPER NEELY BRANCH

STATE ROAD FROM BOLCKOW EAST TO CAWOOD
ABOUT 1.0 MILE EAST OF BOLCKOW
PROJECT NO. S-611(6) SB STA. 194 + 36.0

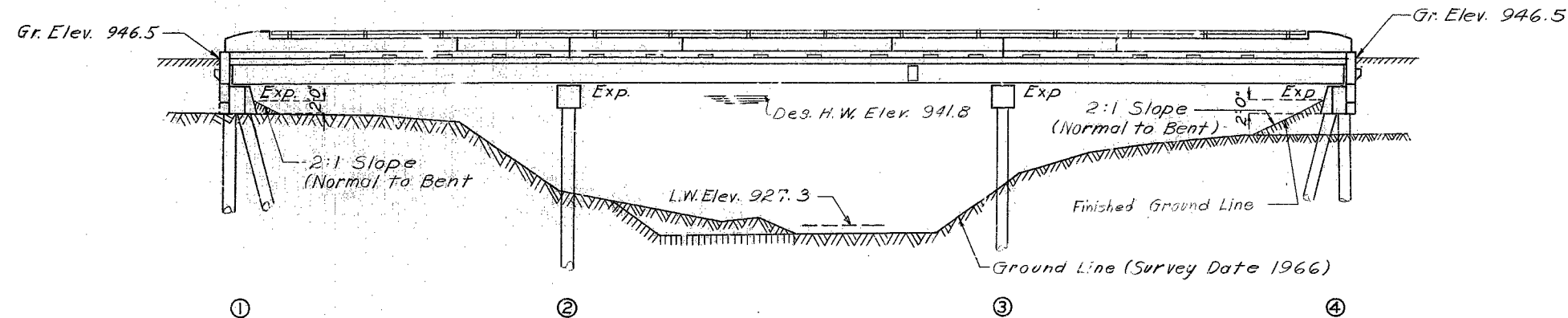
ANDREW

COUNTY

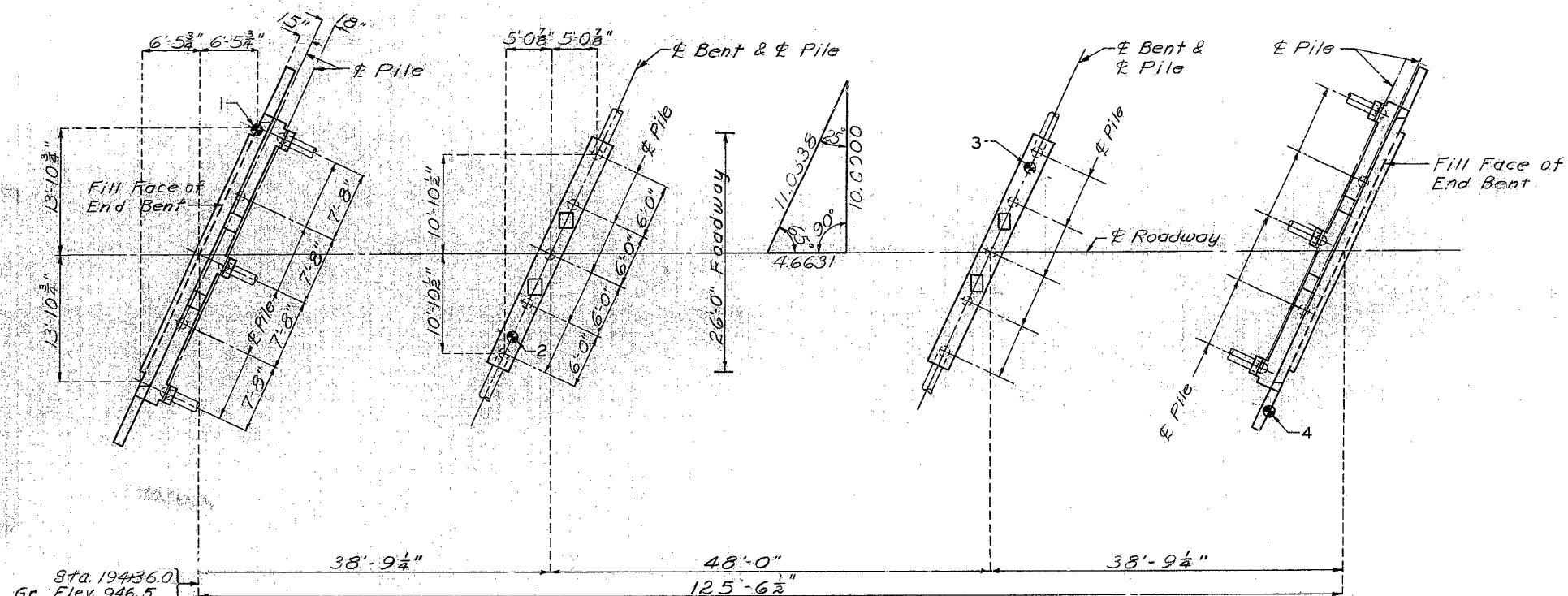
SUBMITTED BY *D.B. Jensen* DATE 12/11/67
APPROVED BY *M. J. Miller* DATE 12/11/67

STD. 54.00
STD. 52.02
A-2290

(37'-48'-37') Cont. Comp. W-Bms.

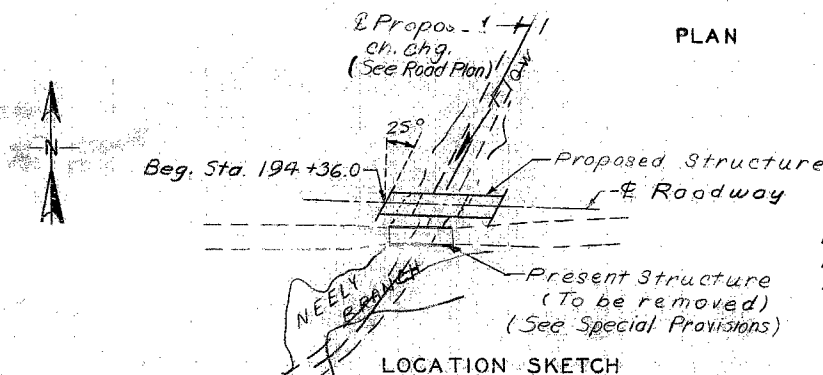


GENERAL ELEVATION



PLAN

● Indicates location of Borings.
For Boring Data See Sheet 2 of 8.



LOCATION SKETCH

Drainage Area: 4.2 Sq. Mi. (Hilly)
Design Discharge: 1300 cfs.
Frequency: 25 years.

DESIGNED JUNE 1967 BY WEIMHOLT
DETAILED JUNE 1967 BY MAYES, WEIMHOLT, KLIETHERMES
CHECKED NOV. 1967 BY BAIG

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

Sheet No. 1 of 8.

252

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

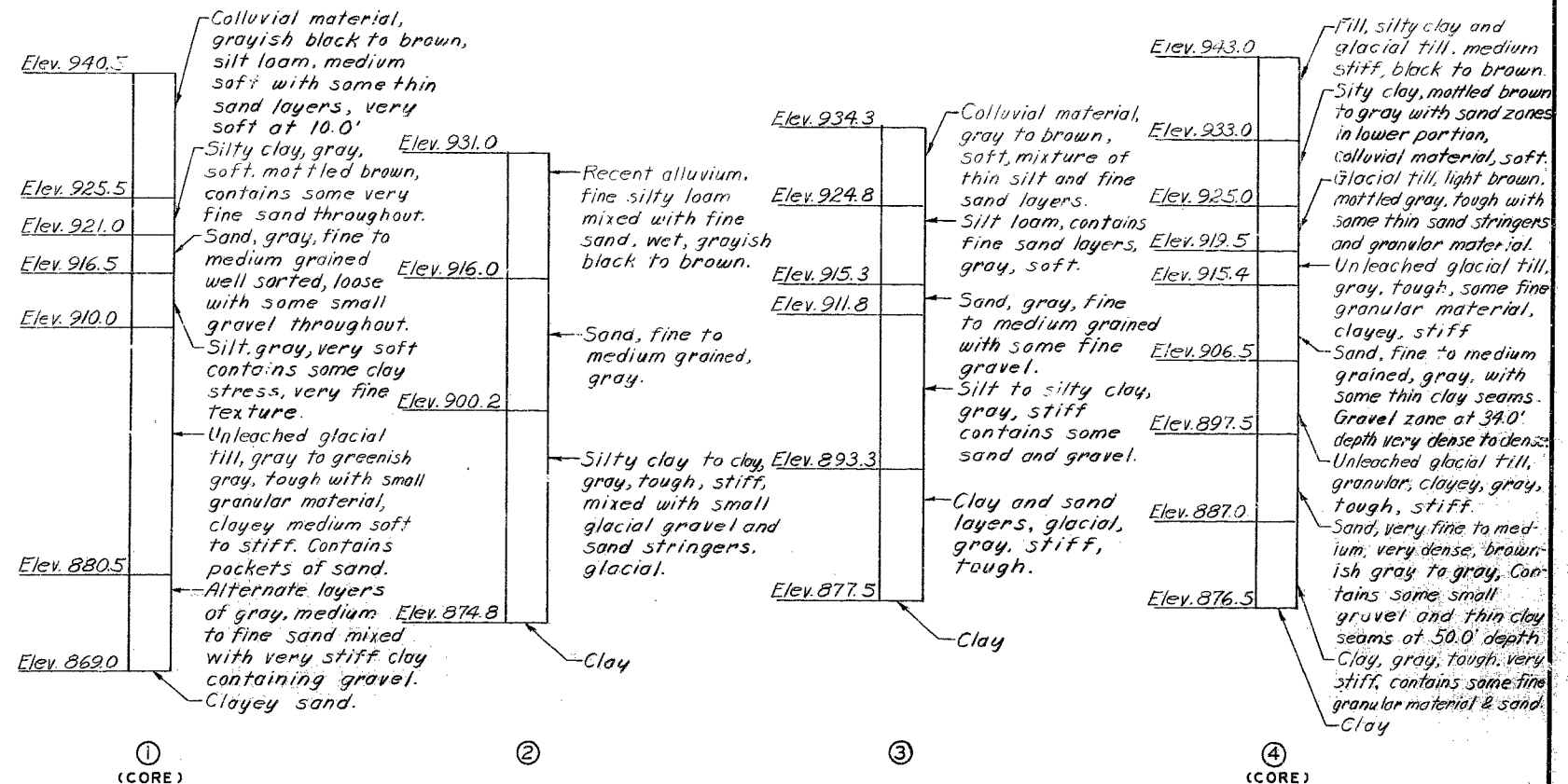
ms
L
2

STD 90.3	REVISED
JUNE 1961	NOV 1967

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

Sheet No. 2 of 8

A-2280

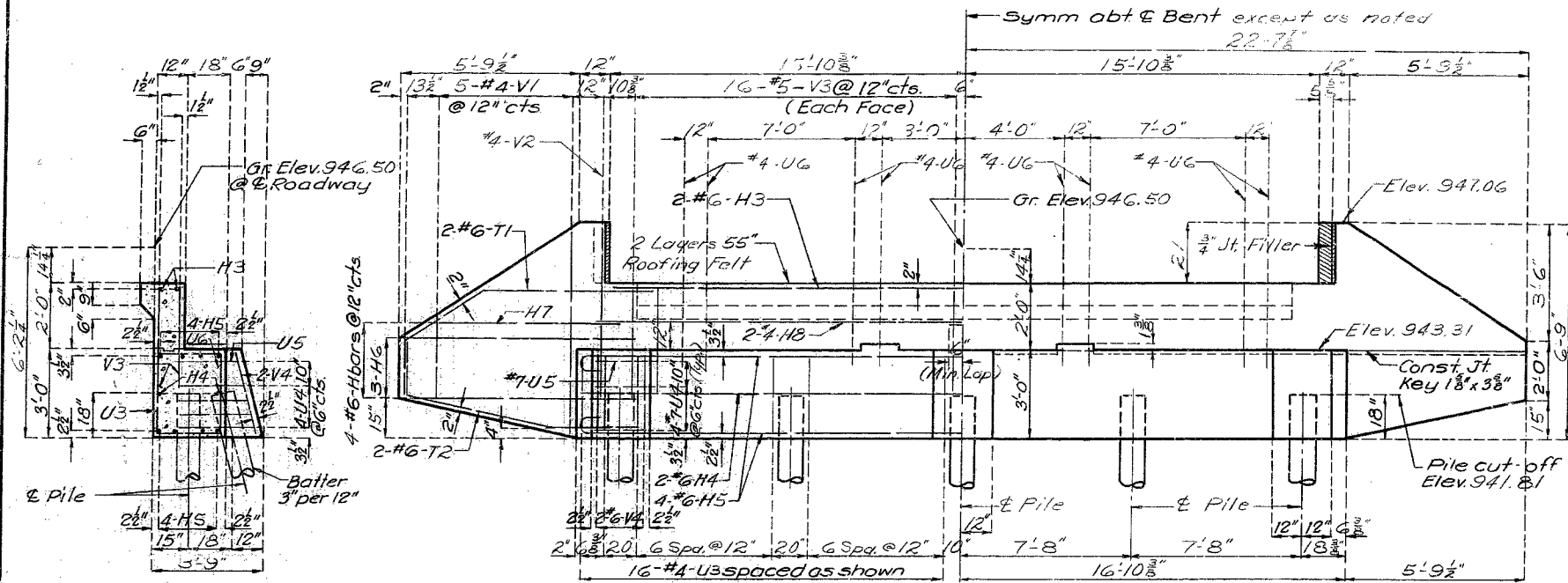


Note: For location of borings
see Sheet No. 1 of 8.

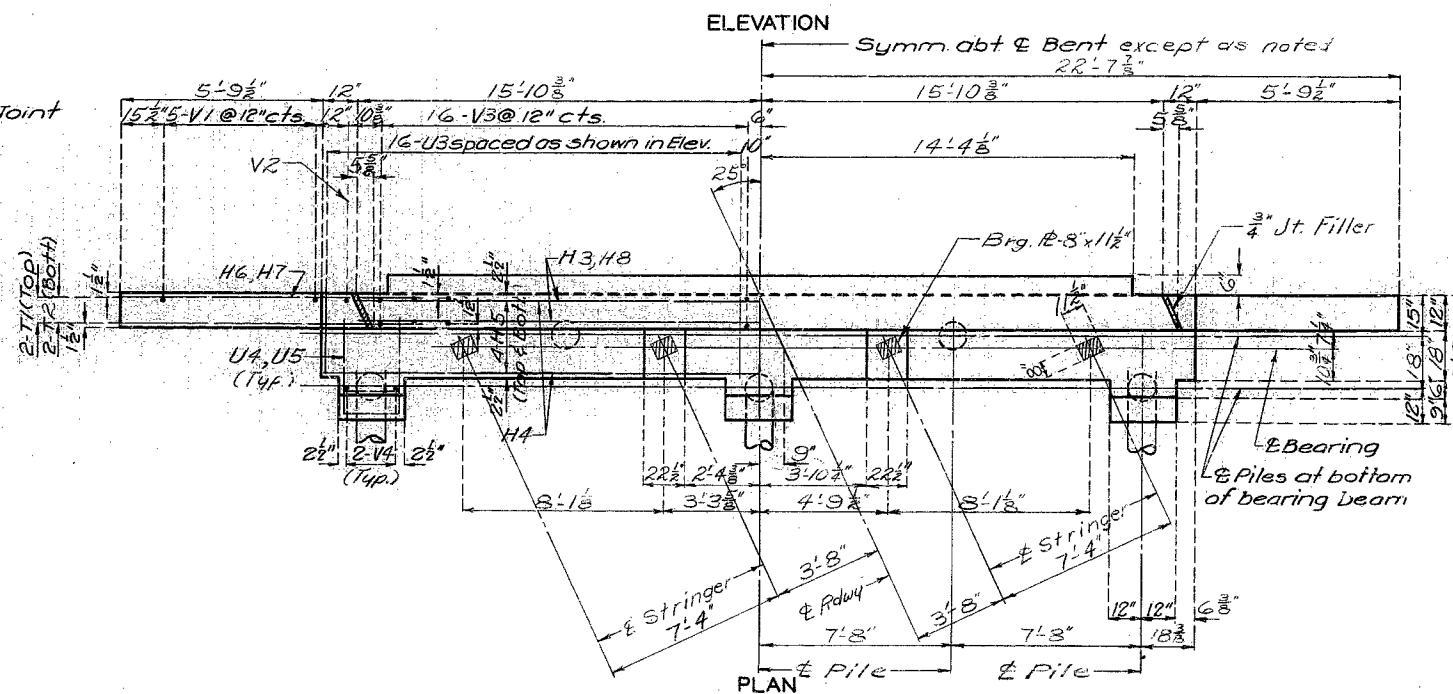
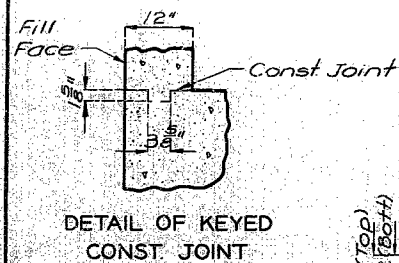
BRIDGE OVER UPPER NEELY BRANCH
STATE ROAD FROM BOLCKOW EAST TO CAWOOD
ABOUT 1.0 MILE EAST OF BOLCKOW
PROJECT NO. S-611(6) SB STA. 194 + 36.0
ANDREW COUNTY

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	14	

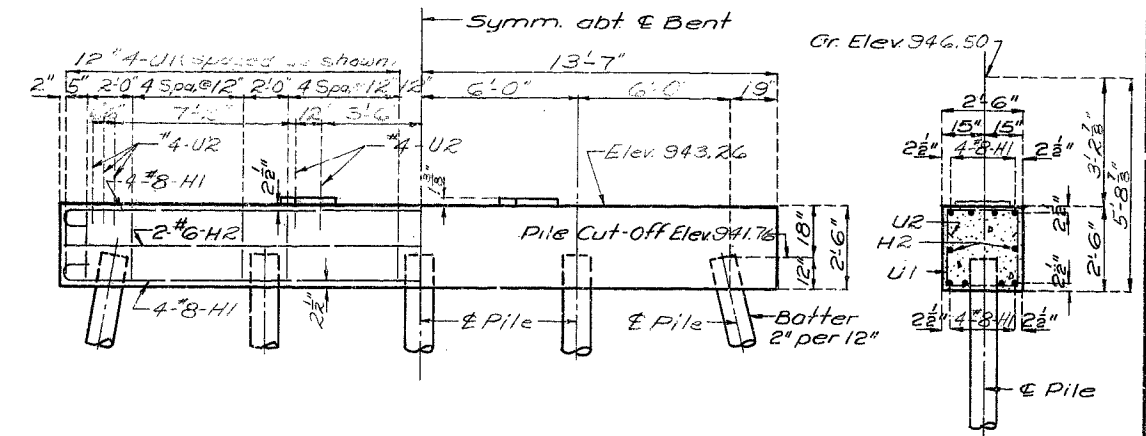


SECTION AT C



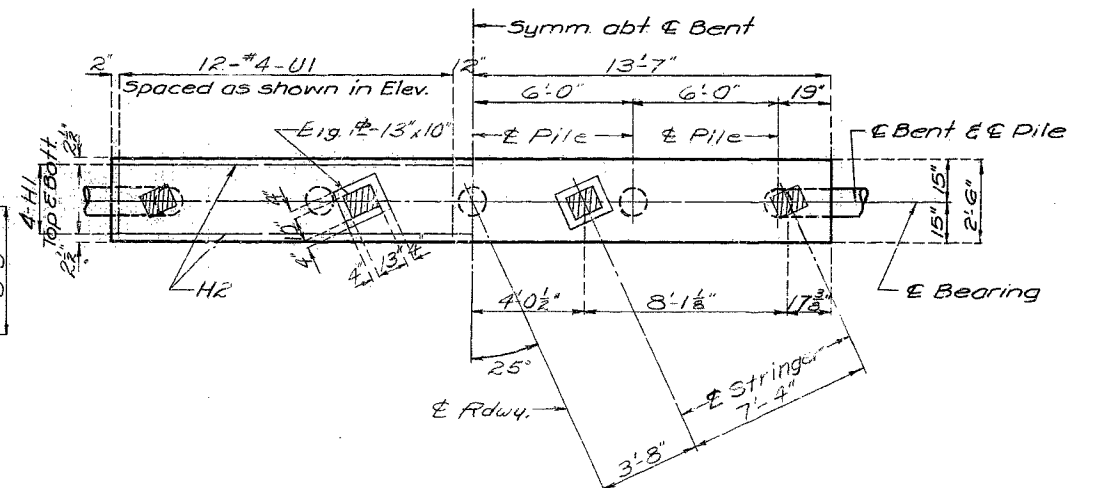
DETAILS OF END BENTS NO. 1 & 4

Note: Fill at end bents No. 1 & 4 shall not be carried above bottom of beam and wings until adjacent superstructure span is in place.



ELEVATION

SECTION AT C



PLAN

DETAILS OF INTERMEDIATE BENTS NO. 2 & 3

BRIDGE OVER UPPER NEELY BRANCH

STATE ROAD FROM BOLCKOW EAST TO CAWOOD

ABOUT 1.0 MILE EAST OF BOLCKOW

PROJECT NO. S-611(6) SB

STA 194+36.0

ANDREW

COUNTY

DETAILED June 1967 BY Mayes
CHECKED Nov 1967 BY Baig

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

Sheet No. 3 of 8.

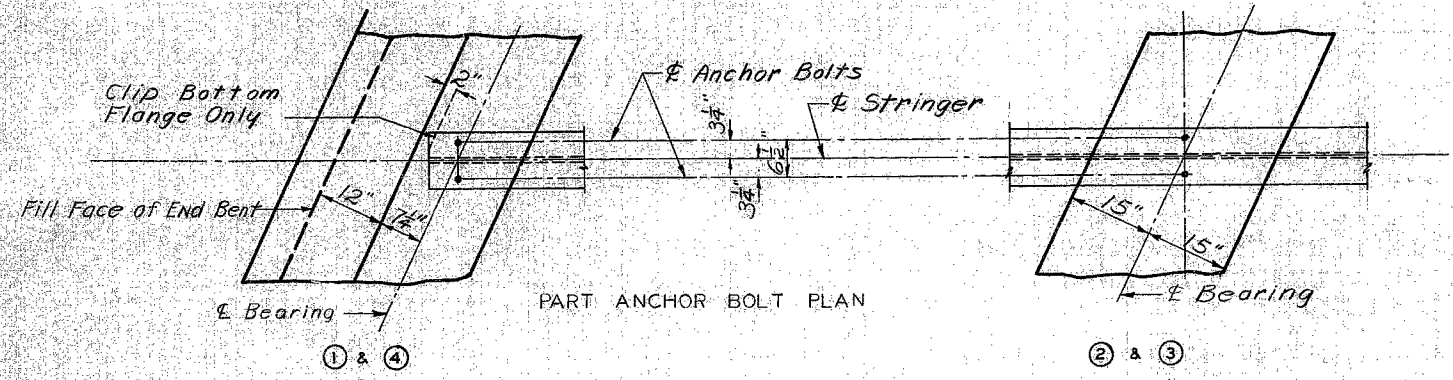
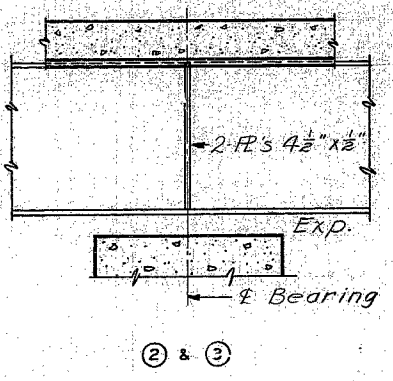
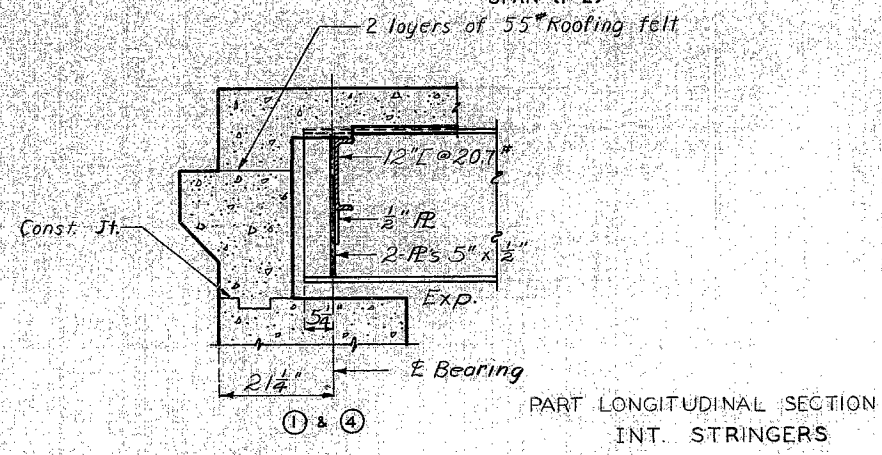
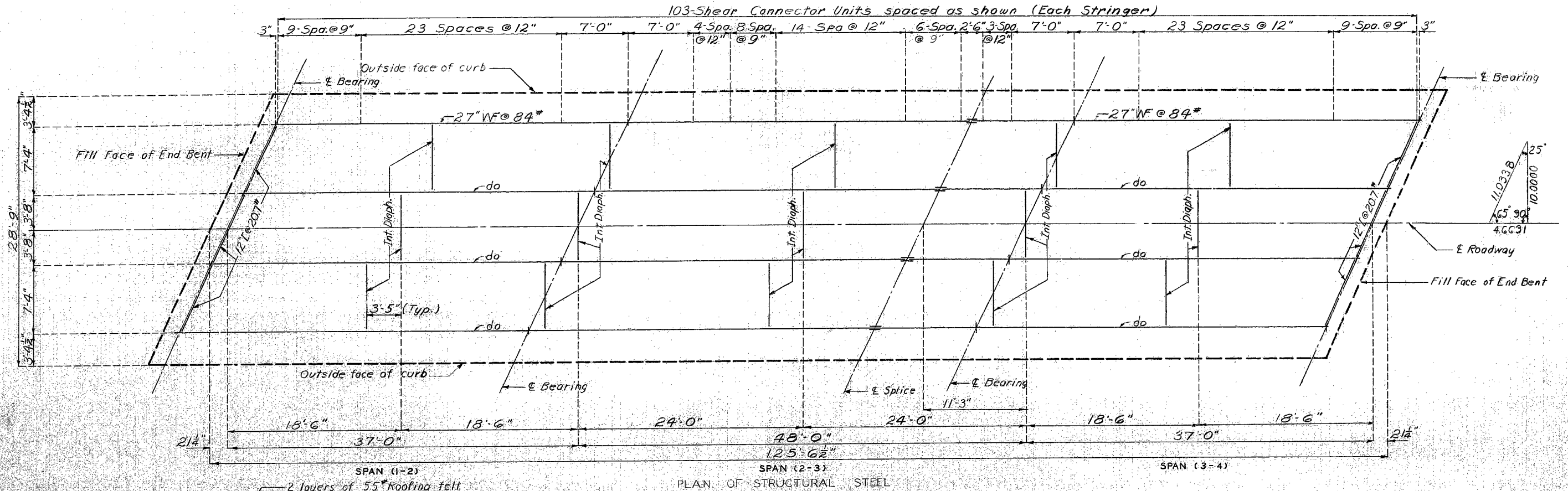
A-2280

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No. 9.1
July 1965
Revised

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	15	



BRIDGE OVER UPPER NEELY BRANCH
STATE ROAD FROM BOLCKOW EAST TO CAWOOD
ABOUT 1.0 MILE EAST OF BOLCKOW
PROJECT NO. S-611 (6) SB STA. 194+36.0
ANDREW COUNTY

255
DETAILED JUNE 1967 BY SHAEFER & WEIMHOLT
CHECKED NOV. 1967 BY Baig

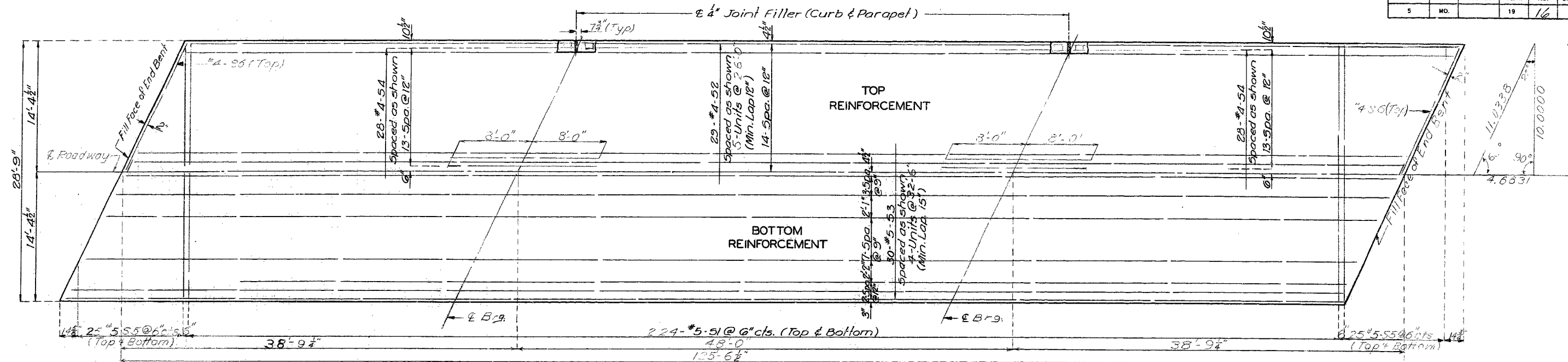
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Sheet No. 4 of 8

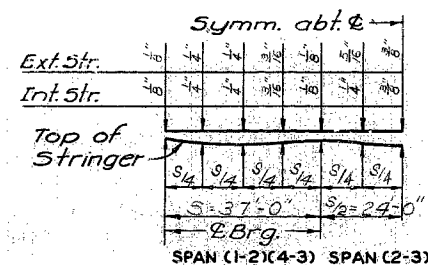
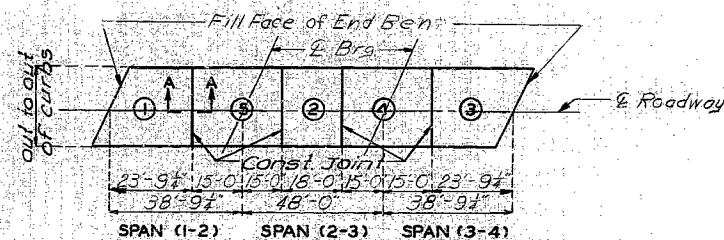
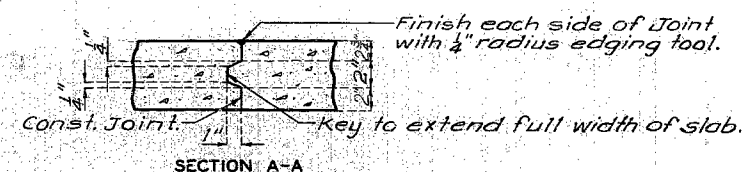
A-2280

MISSOURI STATE HIGHWAY DEPARTMENT

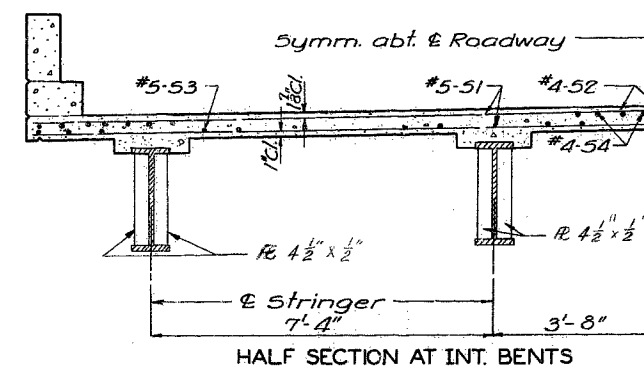
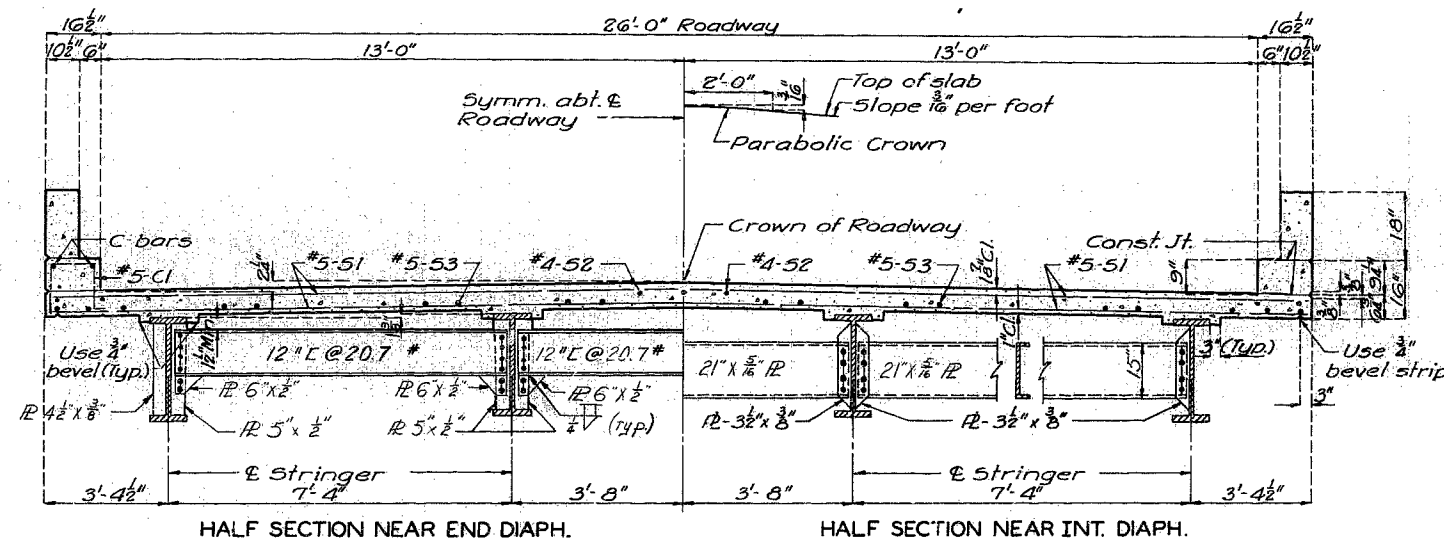
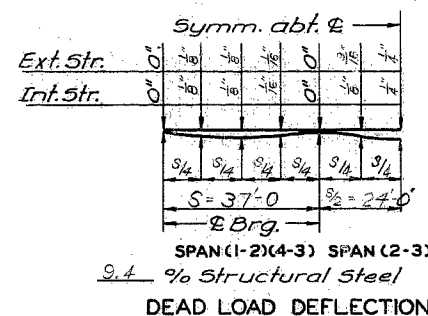
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	16	



PLAN OF SLAB SHOWING REINFORCEMENT



THEORETICAL SLAB HAUNCHING DIAGRAM



Note: For details and reinforcement of curb and parapet not shown see sheet No. 7 of 7.

BRIDGE OVER UPPER NEELY BRANCH
STATE ROAD FROM BOLCKOW EAST TO CAWOOD
ABOUT 1.0 MILE EAST OF BOLCKOW
PROJECT NO. S-611(6) SB STA. 194+36.0
ANDREW COUNTY

SLAB POURING SEQUENCE

Note: The contractor shall observe the basic pouring sequence and shall pour and satisfactorily finish the slab pours at a rate of not less than 12 cubic yards per hour. However, he may use one of the longer alternate pours if he elects to use an approved oscillating screed type, self-propelled mechanical finishing machine and can demonstrate to the engineer that he can pour and satisfactorily finish the slab pours at a rate of not less than 25 cubic yards per hour. Finishing machine loads will not be permitted on concrete less than 48 hours old.

DETAILED JUNE 1967 BY PARKER, & KLIETHERMES
CHECKED Nov. 1967 BY Baig

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

Sheet No. 5 of 8.

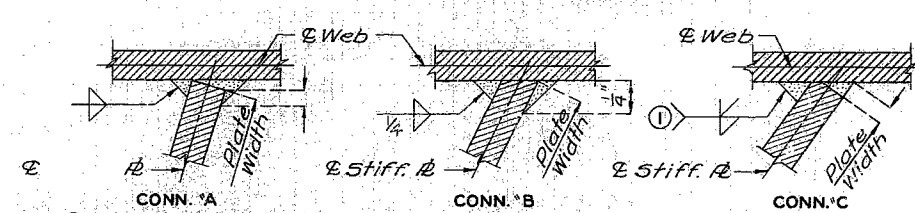
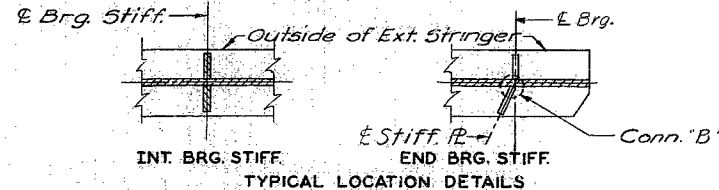
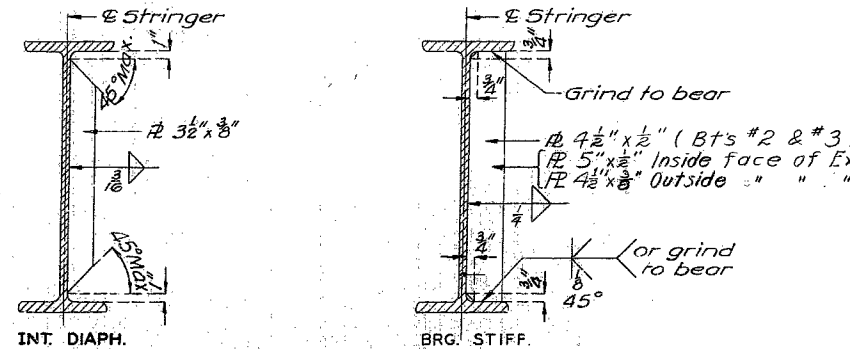
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No. 41261A Revised
Oct. 1964 Dec. 1965

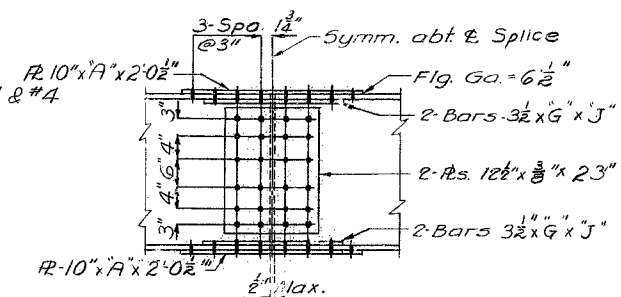
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	17	



① Groove weld penetration = 1/8" min. Only welding procedures having good penetration will be permitted on groove welds.

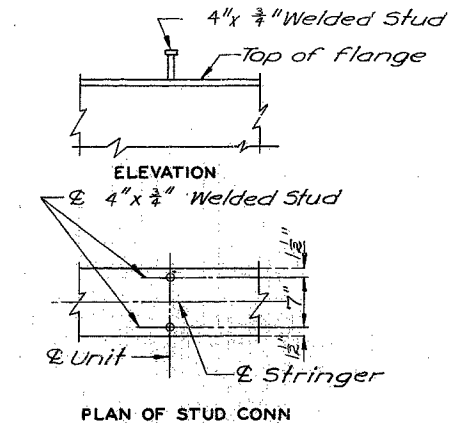
WELDING DETAILS



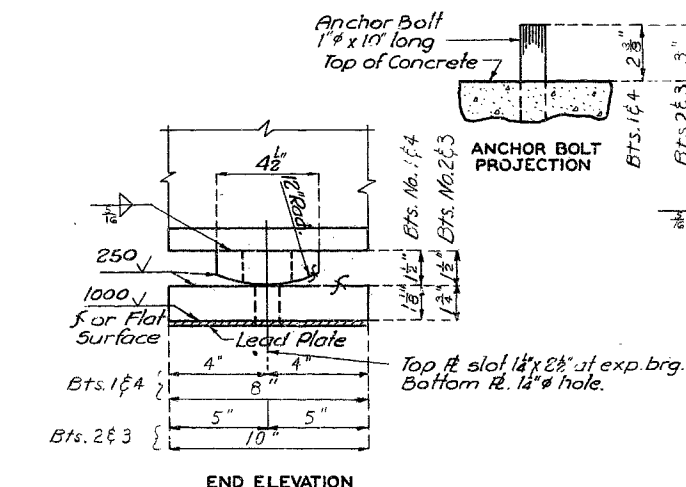
WF SIZE	1/4"	1/2"	3/4"
27" WF @ 84" to 84"	1/2"	1/2"	1 1/2"

Note: 15/16" reamed holes for 3/8" high strength bolts.

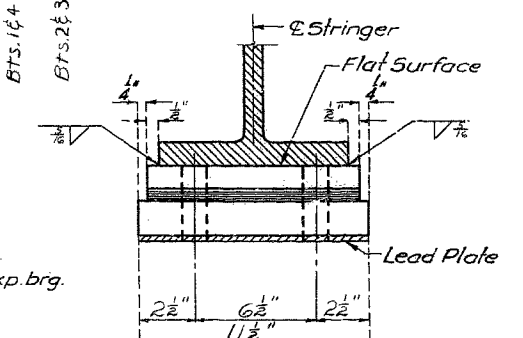
DETAIL OF 27" WF BEAM SPLICE



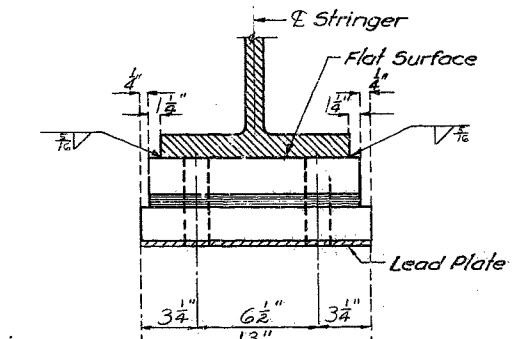
DETAILS OF SHEAR CONNECTORS



END ELEVATION



END BENTS NO. 1 & 4



INT. BENTS NO. 2 & 3

Required: 16-Expansion Bearings

TYPE "C" BEARINGS
(Estimated Weight 1043*)

NOTES: TYPE "C" BEARINGS

Lead plates under bearings shall be approximately 8" thickness and weigh 8#/sq. ft. Cost of lead plates shall be included in price bid for other items. Estimated weight does not include weight of anchor bolts.

Where flat surface is indicated, tolerance shall be .003 in/in in any direction.
Anchor Bolts for Type "C" Bearings shall be 1" swaged bolts 10" long with no heads or nuts. Top of Anchor Bolts shall be set approximately 1" below top of bearing.

BRIDGE OVER UPPER NEELY BRANCH
STATE ROAD FROM BOLCKOW EAST TO CAWOOD
ABOUT 1.0 MILE EAST OF BOLCKOW
PROJECT NO. S-611 (6) SB STA. 194+36.0
ANDREW COUNTY

DETAILED JUNE 1967 BY SHAEFER & WEIMHOLT
CHECKED Nov. 1967 BY Baig

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

Sheet No. 6 of 8.

A-2280

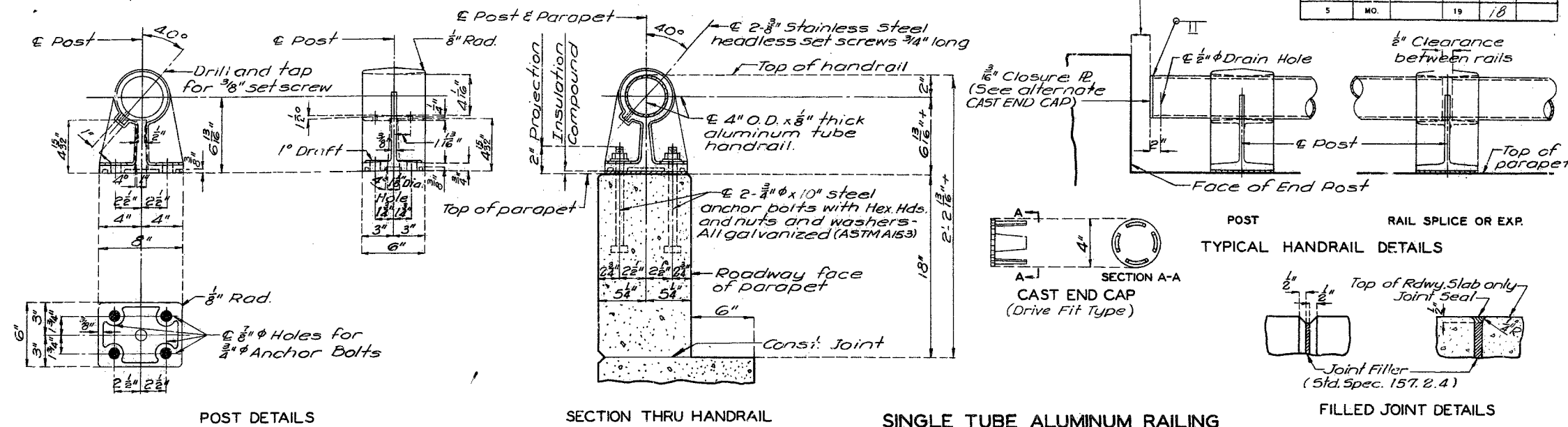
257

GENERAL HANDRAIL NOTES

All handrail posts shall be set normal to grade.
Aluminum tube handrail shall be bent to conform to vertical and horizontal alignment of parapet.
Aluminum washer shims between top of parapet and post base may be used for adjusting handrail alignment. Maximum thickness of shims to be $\frac{1}{8}$ ".
Where more tilting of post is required for proper alignment, concrete bearing areas shall be ground down.
All parts of handrail, except anchor bolts, nuts, washers, and set screws are to be of aluminum material.
The contract unit price per linear foot of "Bridge Rail" shall include furnishing and erecting the handrail complete with anchor bolts, shims and insulating compound.
All fillets $\frac{1}{4}$ " except as noted.
All drafts 3° except as noted.
Pipe rail to be fabricated in a minimum of 2 panel lengths.
Omit set screw on side adjacent to filled joint in parapet and curb at all expansion posts.
Top of curbs and parapets to be built parallel to grade with curb and parapet joints (except at end posts) normal to grade.
Concrete end posts to be vertical.
All exposed edges of end posts shall have $\frac{1}{2}$ " bevel.
All exposed edges of curbs and parapets shall have $\frac{1}{2}$ " radius or $\frac{3}{8}$ " bevel unless otherwise noted.
If the contractor desires, he may use drive fit cast aluminum end caps in lieu of welded aluminum closure plates.
Integrally cast test coupons and a coat of clear lacquer specified in Std. Spec. 56.2.4 and 56.3.5 respectively will not be required for these rail posts.

2" Min. except for Exp. Gap.
in parapet use 3" @ 60°F -

FED ROAD DIST. NO.	STATE	FED AID PROJ NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
5	MO.		19	18	



BRIDGE OVER UPPER NEELY BRANCH
STATE ROAD FROM BOLCKOW EAST TO CAWOOD
ABOUT 1.0 MILE EAST OF BOLCKOW
PROJECT NO. S-611(6) SB STA. 194 + 36.0
ANDREW COUNTY

A-2280

Note: This drawing is not to scale. Follow dimensions

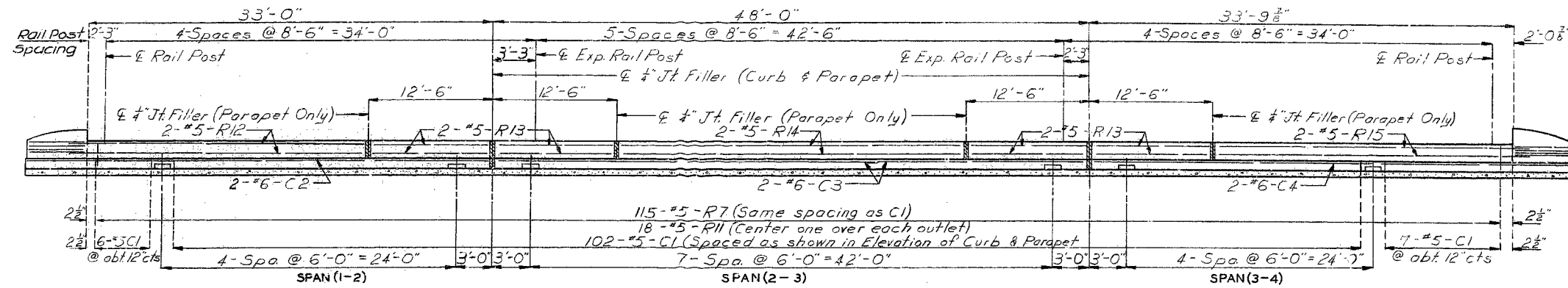
Sheet No. 7 of 8

STD 15.2	REVISED
MAR 1964	JAN 1967

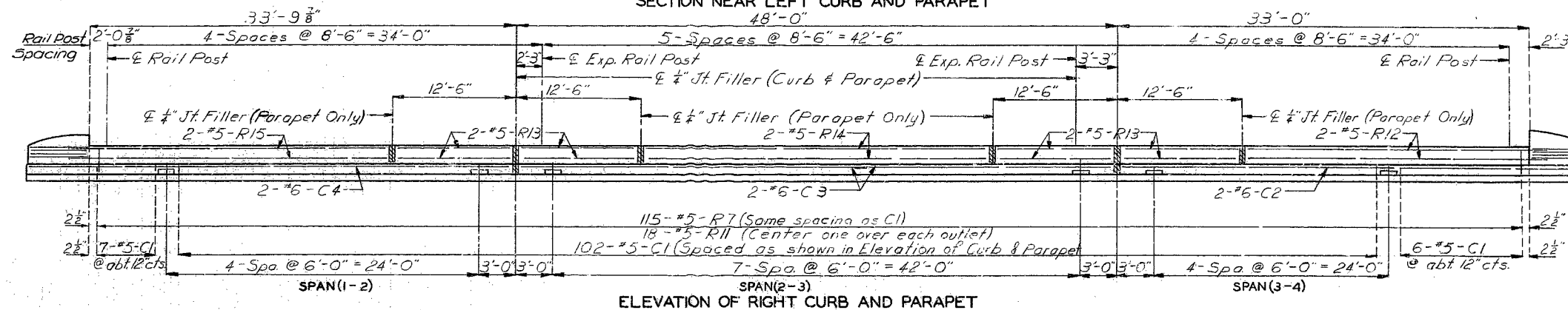
DETAILED NOV 1967 BY K LIETHERMES
CHECKED NOV 1967 BY *Baig*

MISSOURI STATE HIGHWAY DEPARTMENT

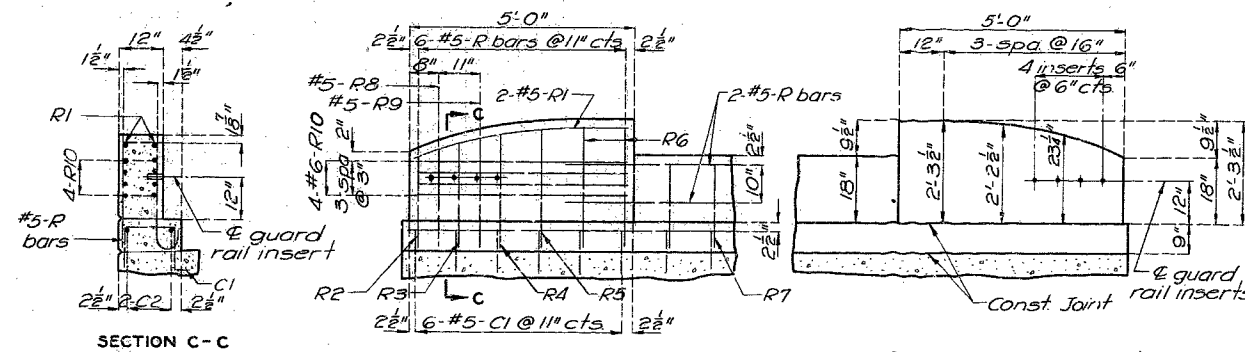
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	19	



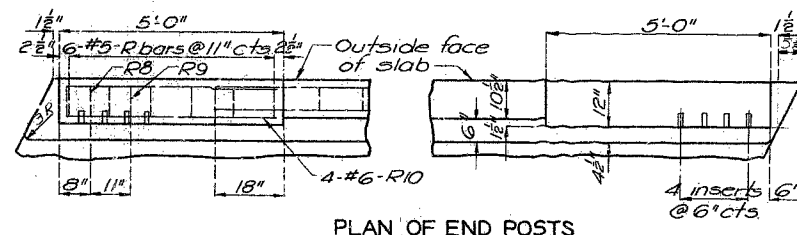
SECTION NEAR LEFT CURB AND PARAPET



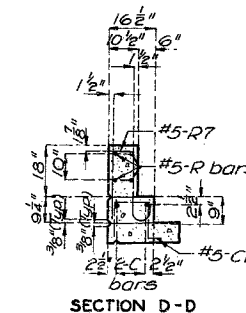
ELEVATION OF RIGHT CURB AND PARAPET



ELEVATION OF END POSTS

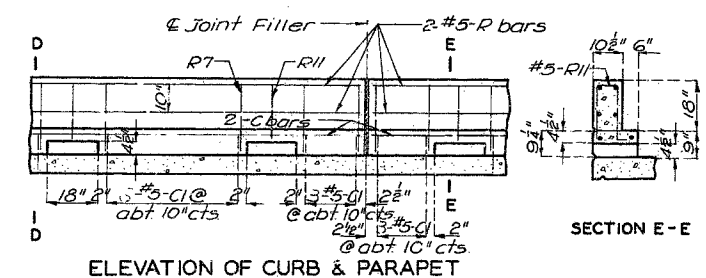


PLAN OF END POSTS



SECTION D-D

Note: When curb outlets are omitted space #5-CI bars at abt 12" cts.



ELEVATION OF CURB & PARAPET

Note: For horizontal curb and parapet, minimum lap of 15" for #5 and 18" for #6

BRIDGE OVER UPPER NEELY BRANCH
STATE ROAD FROM BOLCKOW EAST TO CAWOOD
ABOUT 10 MILE EAST OF BOLCKOW
PROJECT NO. S-611(6) SB STA. 194+36.0
ANDREW COUNTY

DETAILED NOV. 1967 BY KLIETHERMES
CHECKED Nov. 1967 BY Baig

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

Sheet No. 8 of 8

A-2280

259

SPS
REVISED
STD.

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FIS. AL. YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		1967	14	15

GENERAL NOTES:

Design Specifications: A.A.S. 40 - 1965

Design Loading:

H15-44: 15#/sq. ft. Future Wearing Surface

Earth 120# Equivalent Fluid Pressure 30#

Fatigue Stress: Case II

Design Unit Stresses:

Class B Concrete (substructure) $f_c = 1,200$ psi

Class B1 Concrete (superstructure) $f_c = 1,600$ psi

Reinforcing Steel $f_s = 20,000$ psi

Structural Steel (A.S.T.M. A36-66) $f_s = 20,000$ psi

Surface Seal:

Superstructure deck was surface sealed.

Fabricated Steel:

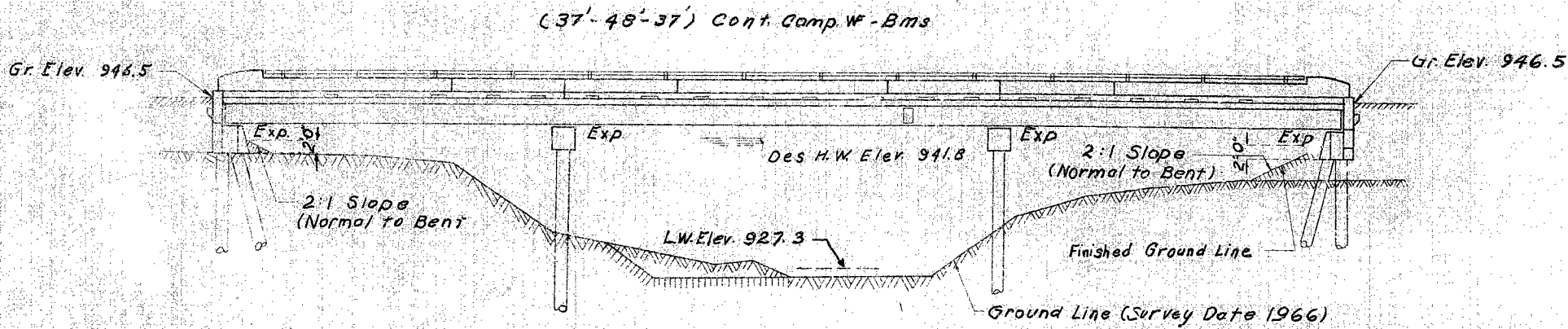
Field connections, High Strength Bolts $\frac{3}{4}$ " ϕ , nuts $\frac{1}{2}$ " ϕ except as noted.

Paint:

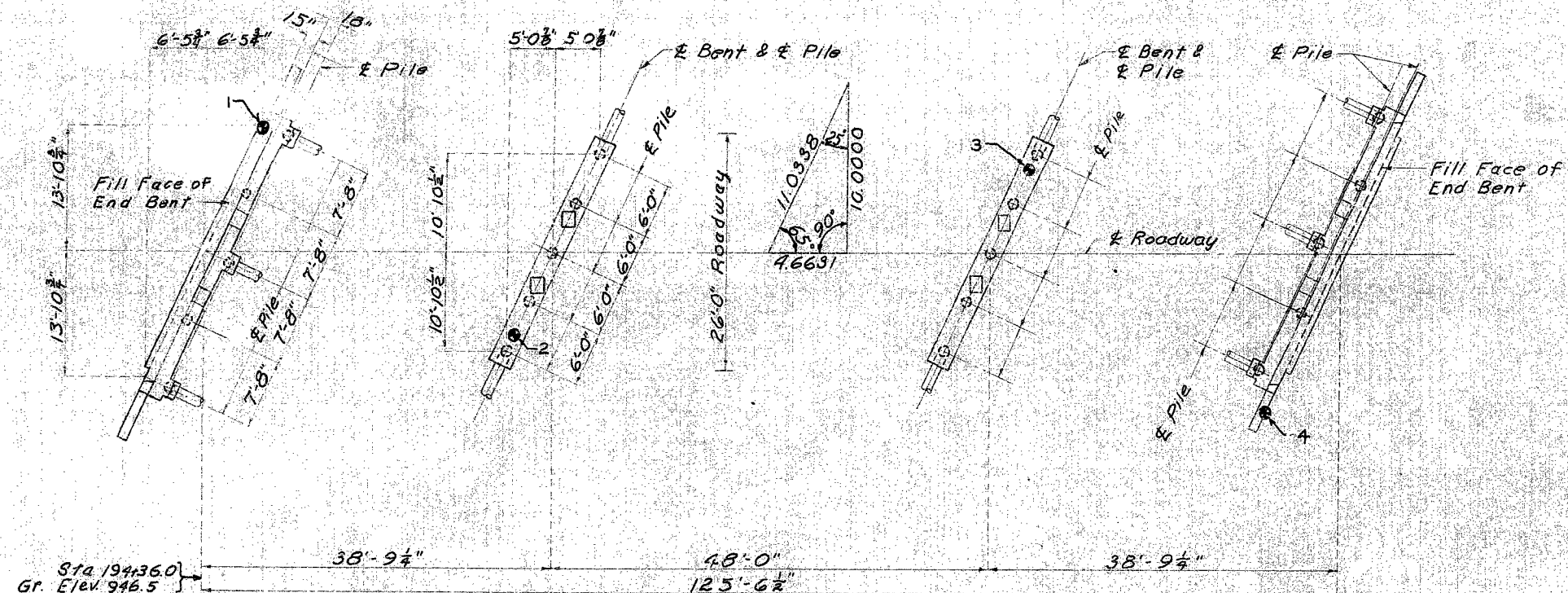
Shop, none; Field by state forces, except as noted in Std. Spec. 55.4.10.2.

All exposed surfaces of steel shells for cast-in-place piles were painted in accordance with Std. Spec. 55.4.10.

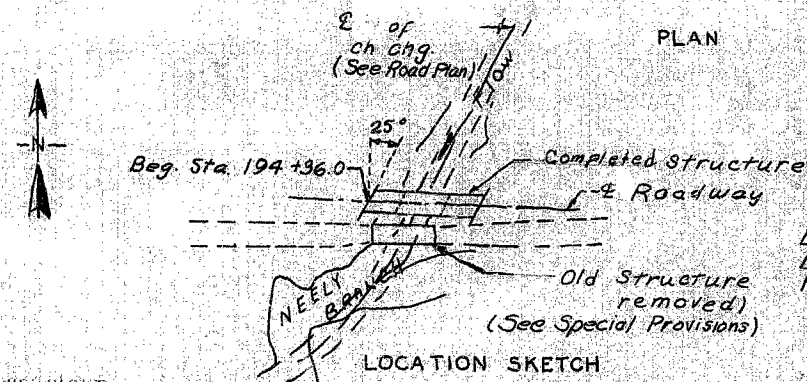
FINAL PLANS



GENERAL ELEVATION



PLAN



LOCATION SKETCH

Drainage Area: 4.2 Sq. Mi. (Hilly)
Design Discharge: 1300 cfs
Frequency: 25 years

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

PILE DATA				
BENT NO.	1	2	3	4
Type	Trestle	Trestle	Trestle	Trestle
Kind	C.I.P.	C.I.P.	C.I.P.	C.I.P.
Number	5	5	5	5
Average Length	42	45	37	34
Design Bearing	32	30	30	32
Min. Tip Penetration	912.0	907.0	907.0	912.0
Pile Standard	52.02	52.02	52.02	52.02
Hammer Energy required Ft. Lbs.	8,000	8,000	8,000	8,000

Minimum energy requirement of hammer based on plan length of piles.
All piles were driven to the minimum penetration and not less than the design bearing noted.

FINAL QUANTITIES			
ITEM	SUBSTR.	SUPERSTR.	TOTAL
Cast-In-Place Concrete Piles	Lin. Ft.	791	791
Class B Concrete	Cu. Yd.	426	426
Class B1 Concrete	Cu. Yd.	992	992
Reinforcing Steel	lb.	4910	26680
Fabricated Structural Carbon Steel	Lb.		48120
Bridge Rail (Single Tube Type)	Lin. Ft.		229
Removal of Bridge	Lump Sum		1

Note: Cost of any required excavation for bridge included in price bid for other items.

B.M. E.I. 947-06 on NE Cor. of Bridge 14' L.T. Sta. 195+62

BRIDGE OVER UPPER NEELY BRANCH

STATE ROAD FROM BOLCKOW EAST TO CAWOOD
ABOUT 1.0 MILE EAST OF BOLCKOW
PROJECT NO. S-611(6) SB STA. 194+36.0

ANDREW COUNTY

DESIGNED BY: D. B. Jenkins

APPROVED BY: [Signature]

STD. 54.00

STD. 52.02

A-2280

Sheet No. 1A of 1

FINAL PLANS

260

STRUCTURAL REHABILITATION CHECKLIST

Bridge No.: **A2280**

Job No.: **JNW0008**

Route: **B**

Over: **Upper Nealy Branch**

County: **Andrew**

Date of Field Check: **7/03/2022**

* * * Please include photographs for all items that apply. * * *

1

OVERLAY

* Type of existing overlay: ☐ None ☒ Asphalt ☐ Low Slump ☐ Silica Fume ☐ Latex ☐ Epoxy ☐ Other: _____

* Existing overlay thickness: **1" to 1.5" "**

* Year overlay was applied: _____ ☐ Unknown

* % of overlay repaired or patched: _____ %

* Replace overlay: ☐ Yes ☐ No

* Notes: _____

Picture **DSCN0727 – Looking east**
#

2A

DECK REPAIRS (Deck repair quantities are required even if a Deck Test request has been ordered for this structure.)

* Half-sole repairs: _____ sq. ft.
(round up to the nearest 50 sq. ft.)

* Full depth repairs: _____ sq. ft.
(round up to the nearest 50 sq. ft.)

* Existing deck repair (patching): _____ sq. ft.
(round up to the nearest 25 sq. ft.)

* Slab edge repairs: _____ lin. ft.
(covers the outer 4" of the slab edge)

* Superstructure repair (Unformed): _____ sq. ft.
(covers the remaining slab cantilever beyond the outer 4")

* Clean & epoxy coat slab edge: _____ lin. ft.
(in lieu of edge repairs)

* Cantilever replacement: _____ lin. ft.

* Total surface hydro demolition of bridge deck: ☐ Yes ☐ No
(half-sole, full depth and exist. deck repair quantities still required)

* Full deck replacement (redeck): ☒ Yes ☐ No ☐ Optional

* Superstructure replacement: ☐ Yes ☒ No ☐ Optional

* Deck repairs with voided tube replacement: ☐ Yes ☐ No
(minimum of 10% of half-sole repair quantity)
_____ sq. ft.

* Full bridge replacement: ☐ Yes ☒ No ☐ Optional
(Deck repair quantities required for cost comparison of alternatives)

* How were the quantities obtained? ☐ Visual ☐ Bridge Inspection Report ☐ Sounded ☐ Other _____

* Notes: _____

Picture
#

DECK REPAIRS CONT.*** ISSUES / PROBLEMS WITH PRECAST PRESTRESSED DECK PANELS**

Spans	Location in Span						Deterioration		Describe
	At Panel Jt.	Btwn (mid) Panel Jt.	End		Mid	End	Type	Amount	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	

* Notes: **N/A**

(Deterioration may include water saturation, efflorescence, rust staining, cracking, spalling, exposed steel, disintegration of panel edges at joints, etc. Typically observed at or near panel joints. The location and "Type" of deterioration should be recorded.)

Picture
#

APPROACH SLABS

* Is there a bridge approach slab in place? ☐ Yes ☒ No * Type: ☐ Concrete ☐ Asphalt ☐ Other _____

* Is there rdwy. approach pavement in place? ☐ Yes ☒ No * Type: ☐ Concrete ☐ Asphalt ☐ Other _____

* Is the approach slab sinking at the end bent? ☐ N/A ☐ Yes ☒ No _____

* Are repairs needed to the bridge approach slab driving surface? ☐ Yes ☐ No _____
(Typically a roadway item but will be reported to District on the Bridge Memorandum.)

* Full replacement of bridge approach slab? ☐ Yes ☐ No _____

* Notes: _____

Picture **DSCN0727 – Looking east, DSCN0749 – looking west**
#

4

SLAB DRAINS

* Is the drainage system working adequately? ☒ Yes ☐ No

* Recommendations: _____

* Notes: _____

Picture **DSCN0749 – looking west**
#

5

CURBS & RAILS

* Existing curb (left side): ☐ Safety Barrier Curb ☒ Curb/parapet ☐ Blockouts ☐ Thrie Beam ☐ Baluster ☐ Steel Channel

☐ Other _____ ☒ Handrail ☐ Fence _____

* Does curb need repair ☐ Yes ☐ No

* Curb repair _____ lin. ft.

* Remove hand rail ☐ Yes ☐ No

* Add curb blockout ☐ Yes ☐ No

* Existing curb (right side): ☐ Safety Barrier Curb ☒ Curb/parapet ☐ Blockouts ☐ Thrie Beam ☐ Baluster ☐ Steel Channel

☐ Other _____ ☒ Handrail ☐ Fence _____

* Does curb need repair ☐ Yes ☐ No

* Curb repair _____ lin. ft.

* Remove hand rail ☐ Yes ☐ No

* Add curb blockout ☐ Yes ☐ No

* Existing median curb: Type: **N/A** Width _____ " Height _____ "

* Does curb need repair ☐ Yes ☐ No

* Curb repair _____ lin. ft.

* Approach rail attachment: ☒ None ☐ Not attached ☐ 4 Hole ☐ 5 Hole ☐ Turn-down ☐ Other _____

* If the existing handrails will be removed, does the local maintenance supervisor wish to keep them? ☐ Yes ☒ No

Storage address: location: _____

address: _____

city: _____ state: _____ zip: _____

* Notes: _____

Picture **DSCN0749 – looking west**
#

6

EXPANSION DEVICES

Bent	Type	Recommendations			Gap Left	Gap Right	Temperature & Other Info
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	

* Notes: **N/A**Picture
#

7

BEARINGS

Bent	Coating	Recommendations			Notes (indicate which bearings at each bent)	
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Seal Abutment	
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Seal Abutment	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

* Notes:

Picture # (Provide Pictures of Each Bearing)

DSCN0729 – West end bent, DSCN0730 – West end bent, DSCN0731, DSCN0732 – West end bent; DSCN0733 – bent 2, DSCN0734 – bent 2, DSCN0735 – bent 2, DSCN0736 – bent 2; DSCN0753 – east end bent, DSCN0754 – east end bent, DSCN0756, DSCN0757 – east end bent

8

COATING SYSTEM (PAINT)* Existing coating system: _____ ☐ green ☒ gray ☐ other _____* Date last coated: **?** _____* Is existing coating peeling? ☐ Yes (Overcoat is not an option) ☒ No

* Coating recommendation:

☒ Blast clean & recoat all steel ☐ Clean & overcoat all steel
☐ Blast clean & recoat only at joint locations ☐ Blast & recoat at joint locations and clean & overcoat all other steel

Note: Pull-off test required for overcoat (Calcium Sulfonate) option. Bridge Division will request pull-off tests.

* Notes:

Picture
#

SUPERSTRUCTURE REPAIRS (Repairs needed not previously stated.)

Concrete Slab Superstructure or Girder: (above the bearings) _____

(Example: Deck solid slabs, voided slabs, box girders,

deck girders & prestressed girders) _____

Steel: (Example: Beams, stringers, girders, diaphragms, cross-frames, misc. steel)

Member (Check all that apply) (Attach pictures)

Describe & Locate

_____	<input type="checkbox"/> Section Loss	_____ %	<input type="checkbox"/> Cracks	_____ in.	_____
_____	<input type="checkbox"/> Section Loss	_____ %	<input type="checkbox"/> Cracks	_____ in.	_____
_____	<input type="checkbox"/> Section Loss	_____ %	<input type="checkbox"/> Cracks	_____ in.	_____
_____	<input type="checkbox"/> Section Loss	_____ %	<input type="checkbox"/> Cracks	_____ in.	_____

 Notes: **N/A**

 Picture
#

SUBSTRUCTURE REPAIR

Bent	Formed Repair	Unformed Repair	Seal Concrete Beam Cap Bts.	Coat Exposed Pile @ Int. Pile Cap Bts.	Describe (Beam, Backwall, Wing, etc.)
_____	_____ sq. ft.	_____ sq. ft.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
_____	_____ sq. ft.	_____ sq. ft.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
_____	_____ sq. ft.	_____ sq. ft.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
4	_____ sq. ft.	4 sq. ft.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
_____	_____ sq. ft.	_____ sq. ft.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____

 * Does the structure need graffiti protection? ☐ No ☐ Bottom 8' of Concrete ☐ End Bents ☐ Other _____

 * Notes: **N/A**

 Picture **DSCN0755 – east end bent**
#

11 SIGNS, SIGNALS &/OR LIGHTING ATTACHED TO STRUCTURE			
* Are there signs attached directly to this structure?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	quantity _____ location _____
* Describe proposed work to be done to signs. _____			
* Are there signals attached directly to this structure?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	quantity _____ location _____
* Describe proposed work to be done to signals. _____			
* Is there aviation lighting attached to this structure?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A <input type="checkbox"/> Red _____ qnty. <input type="checkbox"/> Green _____ qnty.
* Is there navigational lighting attached to this structure?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A <input type="checkbox"/> Red _____ qnty. <input type="checkbox"/> Green _____ qnty.
* Is there roadway lighting attached to this structure?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
* Describe proposed work to be done to lighting. _____ _____			
* Notes: _____ _____			

Picture
#

UTILITIES ATTACHED TO STRUCTURE									
Type			Qty.	Size	Owner	Condition			
<input type="checkbox"/> Conduit	<input type="checkbox"/> Pipeline	<input type="checkbox"/> Other				<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove
<input type="checkbox"/> Conduit	<input type="checkbox"/> Pipeline	<input type="checkbox"/> Other				<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove
<input type="checkbox"/> Conduit	<input type="checkbox"/> Pipeline	<input type="checkbox"/> Other				<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove
<input type="checkbox"/> Conduit	<input type="checkbox"/> Pipeline	<input type="checkbox"/> Other				<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove

* Notes: **N/A**

Picture
#

13

CATHODIC PROTECTION SYSTEM

* Is there a cathodic system on this structure? ☐ Yes ☒ No ☐ Remove ☐ Do not alter ☐ Abandon in place (grooved system)

* Is it on and working? ☐ Yes ☐ No ☐ Unknown _____

* Notes: _____

Picture

#

14

CHANNEL ALIGNMENT, SLOPE PROTECTION & SCOUR

* Is channel aligned to bridge opening? ☒ Yes ☐ No Describe _____

* Is drift a continual problem? ☐ Yes ☒ No Describe & Locate _____

* Is erosion a problem? ☒ Yes ☐ No Describe & Locate Apprx. 200-300 tons Rip Rap on west abut. Slope

* Describe slope protection in place. _____

Scour	At Footing	At Piling	Depth	Bent	Recommendation
	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____

* Describe needed work. _____

Picture

#

DSCN0758 – looking west, DSCN0748 – looking east

15

TRAFFIC LANES

* Number of lanes striped: on structure 2 under structure _____

* Shoulder width: ☐ None on structure 2' 2' under structure _____
(left) (right) (left) (right)

* Sidewalk widths: on structure _____ under structure _____
(left) (right) (left) (right)

* Median width: on structure _____ under structure _____

* Proposed improvements for lanes/shoulders/sidewalks: N/A

Picture

#

16

GENERAL AREA CONDITIONS

* Primary area: ☐ Commercial ☐ Industrial ☐ Residential ☒ Agricultural ☐ Military ☐ Other _____

* Posted speed limit on structure: 55 mph

* Posted load on structure: _____ tons @ _____ mph ☒ NA

Single Unit: _____ tons @ _____ mph ☒ NA

Semi (tractor/trailer): _____ tons @ _____ mph ☒ NA

* Are both signs in place?

☐ Yes ☐ No

* Do pedestrians and/or bicyclists regularly use this structure? ☐ Yes ☐ No ☒ Undetermined

* Notes: _____

Picture
#

17

MAINTENANCE

* What work has been done to this structure that may not be reflected on existing bridge plans? _____

Asphalt overlay on deck

Picture **DSCN0727 – Looking east**
#

18

ADDITIONAL FIELD NOTES

Picture **Bridge photos are in A2280 - 2022.ppt and A2280 SRC Photos - 2022.zip**
#

19

STAGING / DETOUR

* **Traffic Control:** ☒ Close structure ☐ Stage construction on structure ☐ Cross over traffic to adjacent structure ☐ Detour

☐ Other option _____

* **Define probable detour route.** _____

20

PERSONS ASSISTING WITH CHECKLIST

Name	<u>Scott Stephens</u>	Title	<u>District Bridge Engineer</u>	Ph.	<u>(816) 390 - 3641</u>
Name	<u>Bryce Acton</u>	Title	<u>District Bridge Engineer</u>	Ph.	<u>(816) 390 - 3641</u>
Name	<u>Brian Rosenthal</u>	Title	<u>Project Manager</u>	Ph.	<u>(816) 387 - 2499</u>
Name	<u>Joyce Reynolds</u>	Title	<u>Project Manager</u>	Ph.	<u>(816) 387 - 2411</u>
Name	_____	Title	_____	Ph.	<u>() - </u>

21

REQUIRED SIGNATURES

I have reviewed the information on this checklist and believe it to be as accurate as possible.

Name	_____	Date	_____
	<i>Transportation Project Manager</i>		
Name	_____	Date	_____
	<i>District Bridge Engineer</i>		

The structural rehabilitation checklist indicates how the bridge is functioning and aging.

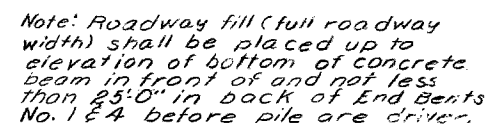
All deterioration should be noted, even if it is known that the work will not be completed under the proposed project.

Send **NEW** Structural Rehabilitation Checklist by email

To: "Bridge Survey Processor"

Cc: Structural Project Manager or Structural Resource Manager

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
5	MO.		19	7	



H15-44 5#/sq. ft. Future Wearing Surface
Earth 120#. Equivalent Fluid Pressure 30#

Class B Concrete (substructure) $f_c = 1,200$ psi
Class B1 Concrete (superstructure) $f_c = 1,600$ psi
Reinforcing Steel $f_s = 20,000$ psi
Structural Steel $f_s = 20,000$ psi
Steel Pipe $f_b = 6,000$ PSI

Field connections, High Strength Bolts $\frac{3}{4}" \phi$,
holes $\frac{13}{16}" \phi$ except as noted.

Paint: Shop, none; Field, by state forces, except as noted in Std. Spec. 712.12.8.

FILE & FOOTING DATA					
BENT NO.		1	2	3	4
BEARING PILE	Pile Type and Size	10BP42			10BP42
	Number	7			7
	Approximate Length Ft.	19			23
	Design Bearing Tons	26			26
	Hammer Energy req'd. Ft.Lbs.	7,000			7,000
SPREAD FOOTINGS	Foundation Material		Shale	Limestone	
	Design Bearing Tons / Sq. Ft.		7.4	5.0	

Minimum energy requirement of hammer based on plan length and design bearing value of piles. Increase by the factor $(W+w)/2W$ when the weight of the ram (W) is less than the weight of the pile (w).
All pile shall be driven to practical refusal.

ITEM	SUBSTR.	SUPERSTR.	TOTAL
Class 1 Excavation for Structures Cu.Yd.	25		25
Class 2 Excavation for Structures Cu.Yd.	68		68
Steel Pile in Place Lin.ft.	294		294
Class B Concrete Cu.Yd.	1052		1052
Class B1 Concrete Cu.Yd.		1499	1499
Reinforcing Steel Lbs.	15,100	46,670	55,770
Fabricated Structural Carbon Steel Lbs		77,660	77,660
Bridge Rail (One Tube) Lin ft.		360	360
Bridge Removal Each			1

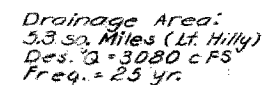
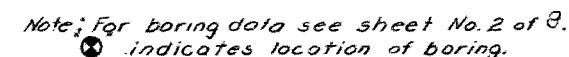
Note: All concrete and reinforcement in end posts, Parapets and curbs is included with superstructure quantities.

B.M. Elev 835.30 Sta. 594+71- 47' Rt. \square on N.E. cor. N. Hdwl.
 Elev 842.77 Sta. 600+33- 41.9' Rt. \square on N.E. cor. conc.
 curb. (U.S.G.S. Datum 1929 Adj.)

COUNTY

APPROVED BY M. J. Snider DATE 5-12-69

A-2582



Sheet No. 1 of 3

DESIGNED Jan. 1969 BY Mizani
 DETAILED March 1969 BY Heck
 CHECKED Apr. 1969 BY Johnson

320

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		29	8	

BENDING SKETCHES & CUTTING DIAGRAMS

MARK	a	b	c
------	---	---	---

MARK	A	B	C	D
P11	23 1/8"	7 1/2"	20 1/8"	6"

6" 6"

40' 2" H15

4' 2" D3

D3 H15

Technical drawing of a mechanical part, likely a bracket or support. The drawing includes the following dimensions and labels:

- Top Dimension:** 1.20, 0.27
- Right Side Dimension:** 6'-6"
- Bottom Right Dimensions:** 13'-F2, 12'-F1, 12'-F2
- Internal Dimensions:** 1.00, 0.25
- Labels:** A, B

U1A	4° 9'	6"
U29	3° 10'	6"
U16	6° 10 1/2'	2 1/2"
U21	23 3/4"	2 7/8"
R2	2° 7 1/2'	9"
R3	2° 10 1/2'	9"
R4	3° 0'	9"
R5	3° 1 1/2'	9"
R6	3° 3'	9"
R7	3° 4 1/2'	9"
R10	4° 8 1/2'	7 1/2"
U31	2° 8 1/2'	6 1/4"
U32	2° 7 3/4'	6 5/8"

[illegible]

The diagram shows a trapezoidal roof plan. The left vertical side is labeled 'A'. The top horizontal side is labeled 'B'. The right slanted side is labeled 'C'. The bottom horizontal side is labeled 'E'. A small rectangle is drawn inside the top part of the trapezoid, with its width labeled 'D'.

Sheet No. 2 of 9



A-2582

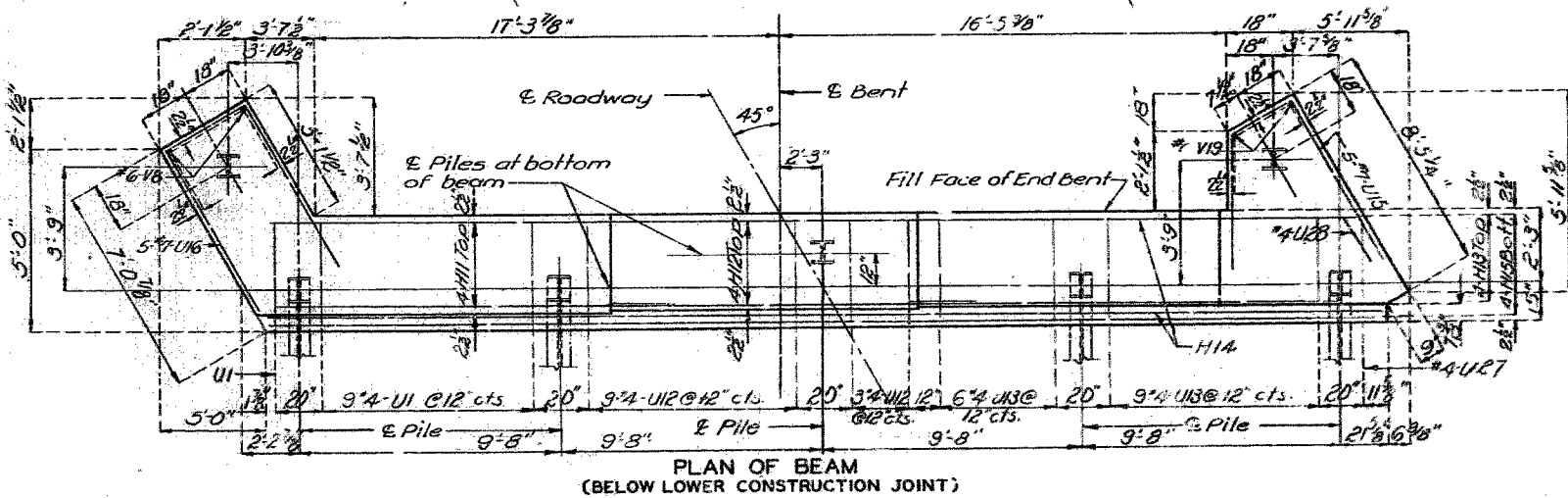
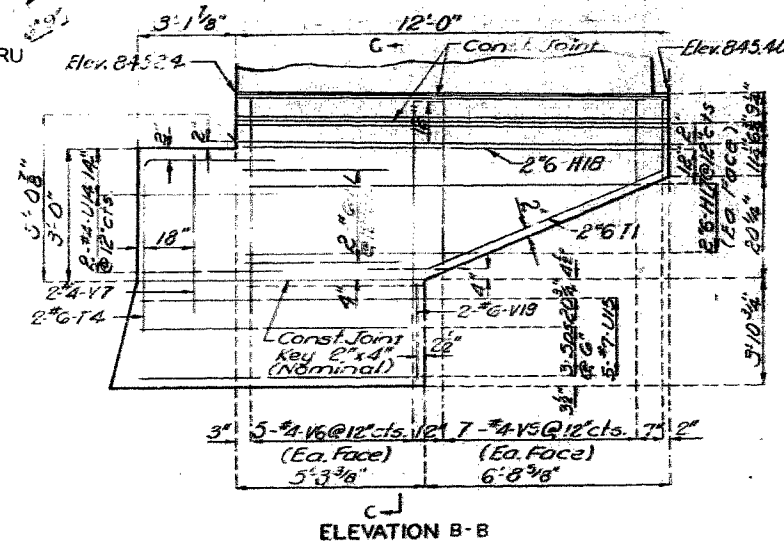
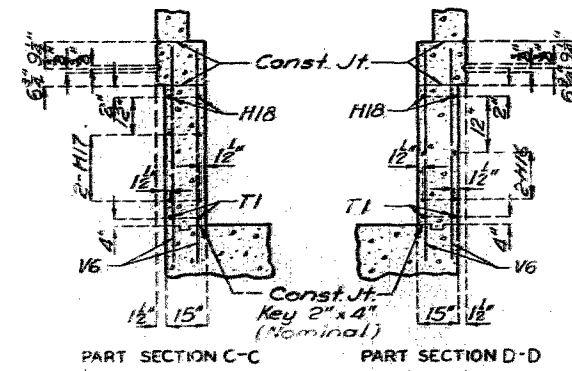
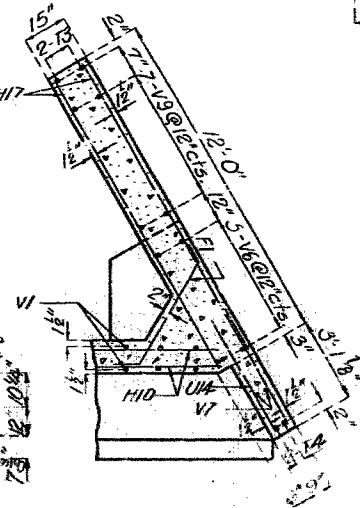
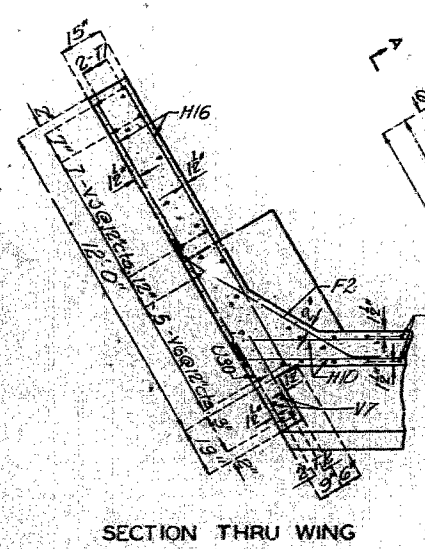
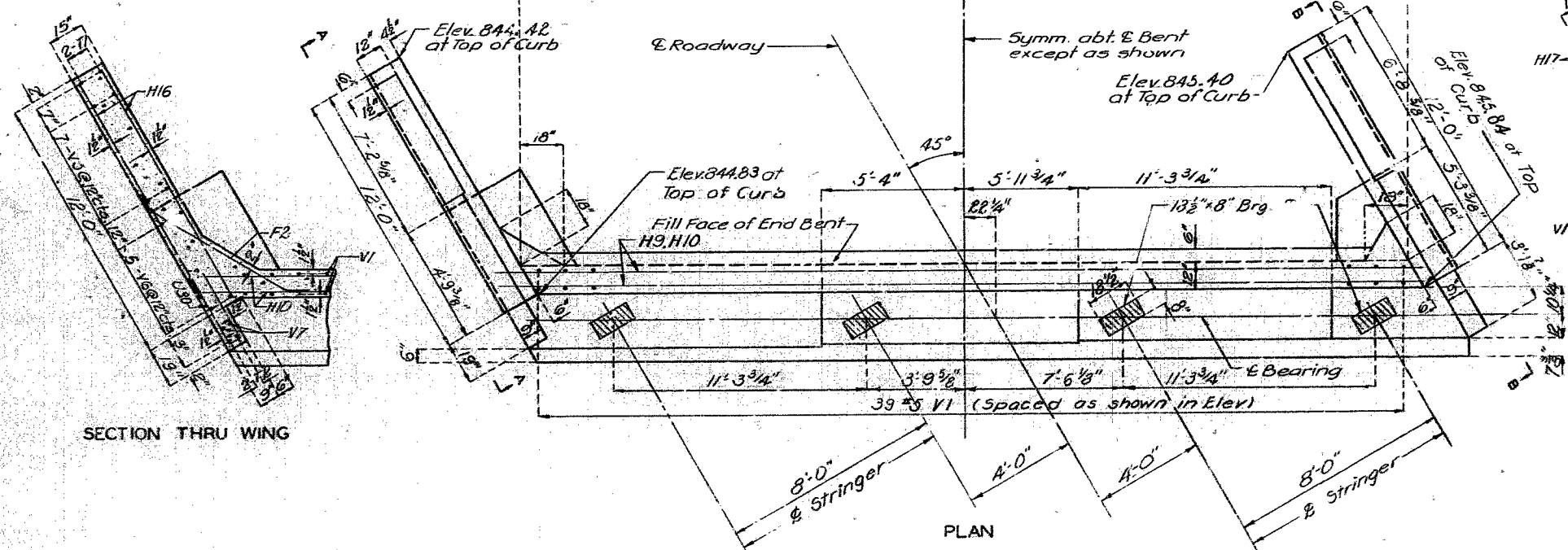
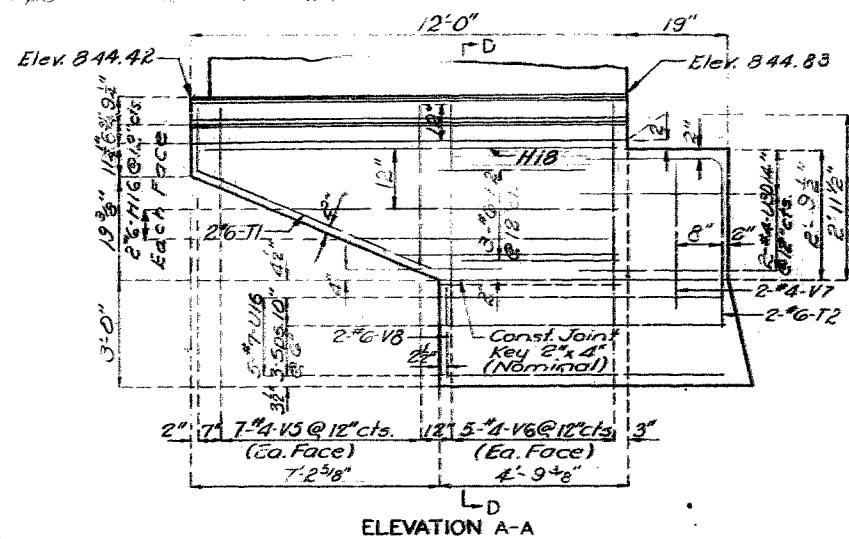
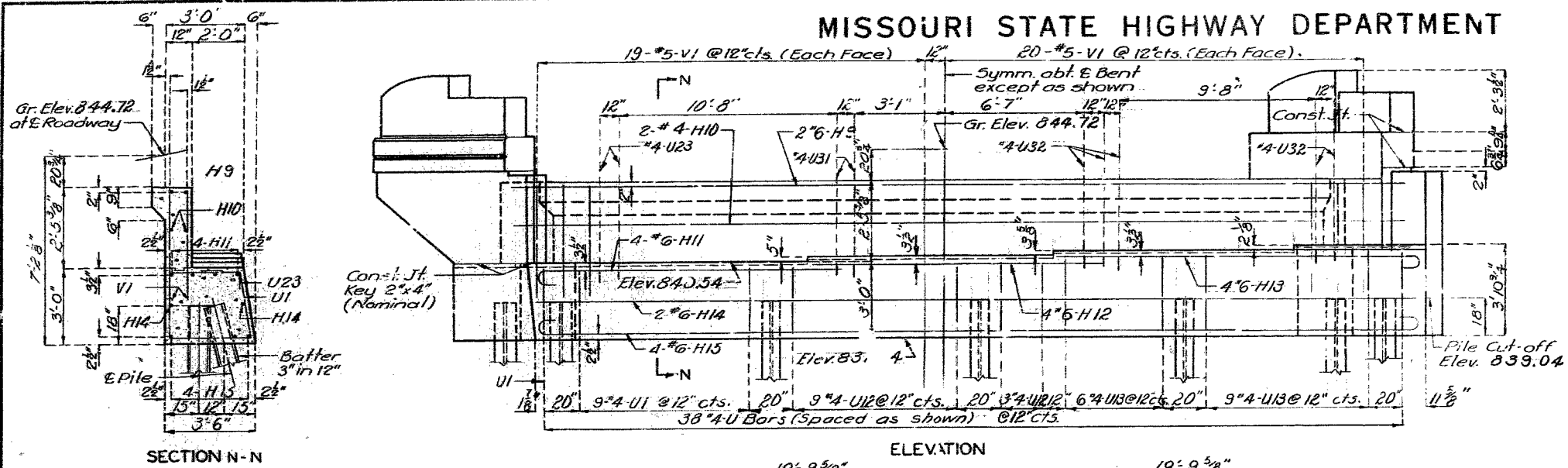
Sheet No. 2 of 9 .

STD 90.3	REVISED
JUNE 1961	NOV. 1967

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	9	

Note: Field bending shall be required at wings for #6-H10 bars in backwalls with Expansion Device and for #1 bars when necessary to conform to slope of wing.
See bridge rail sheet for reinforcement of end posts.



DETAILS OF END BENT NO. 1

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

Sheet No. 3 of 9

BUCHANAN COUNTY

A-2562

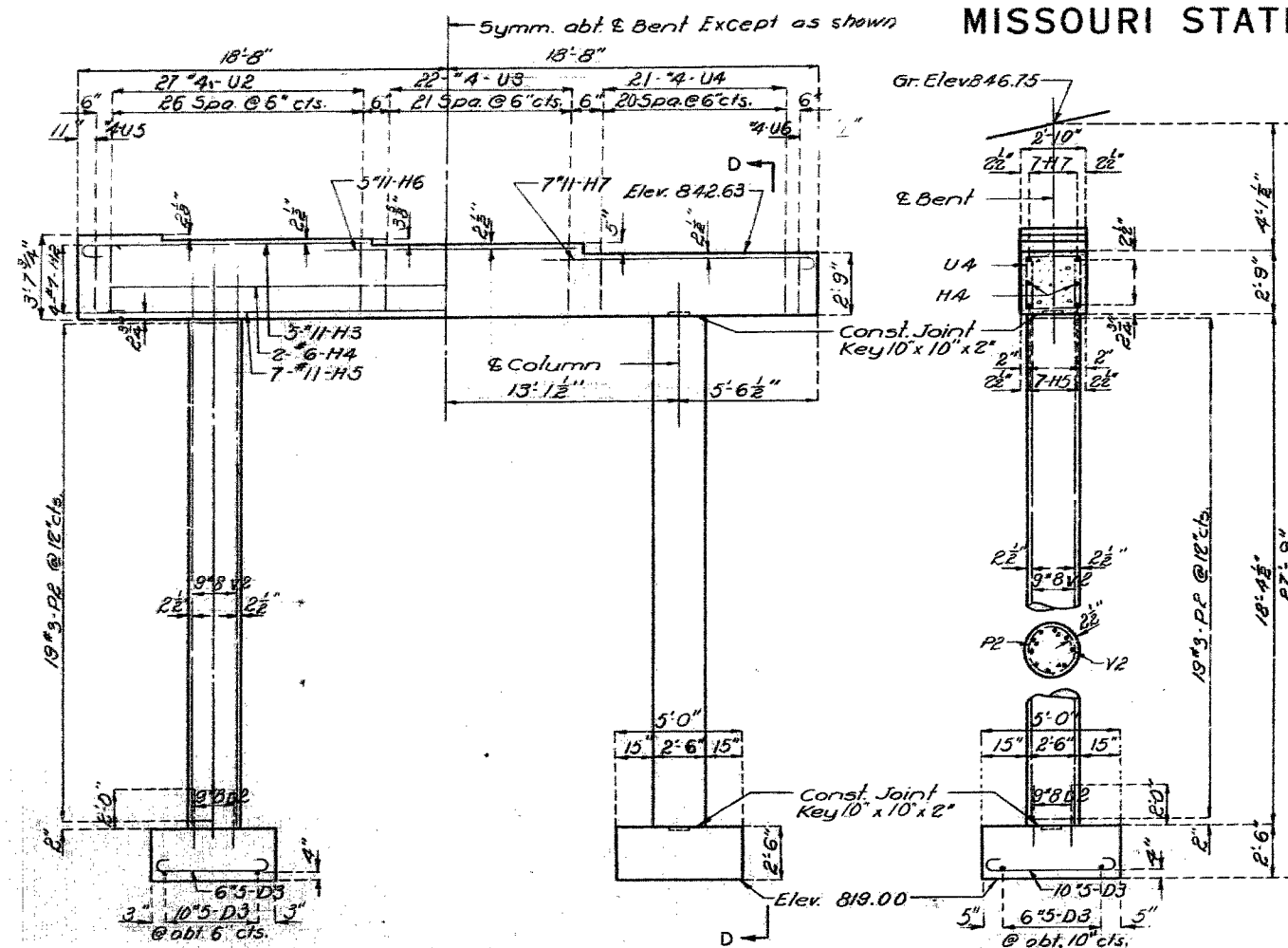
322

REVISED NOV. 1968
APRIL 1965

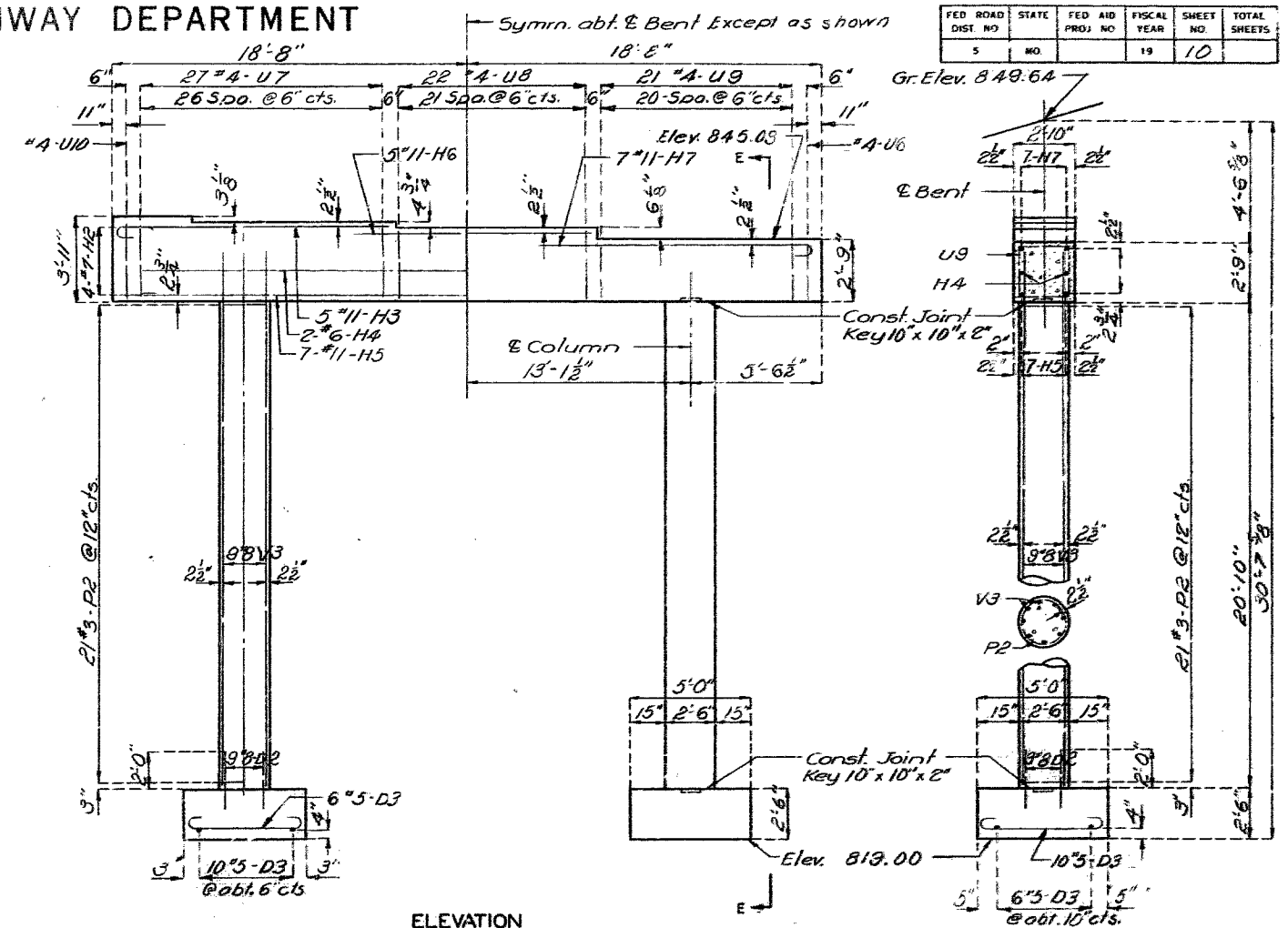
Butt splice (if required) Top of lower section to be cut square
STEEL PILE SPLICE
DETAILED Feb. 1969 BY HECK
CHECKED Apr. 1969 BY Johnson

MISSOURI STATE HIGHWAY DEPARTMENT

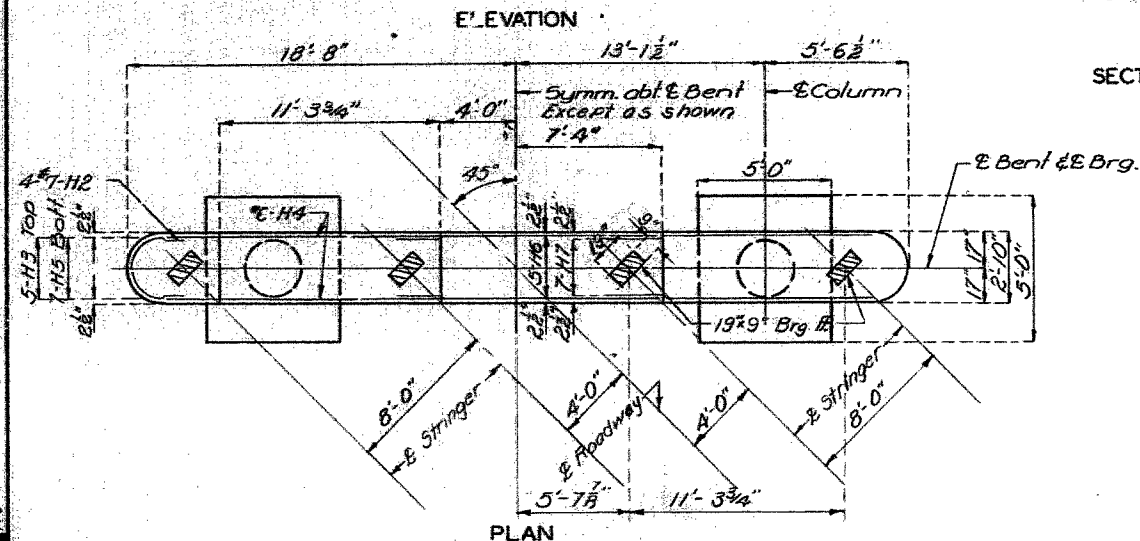
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	10	



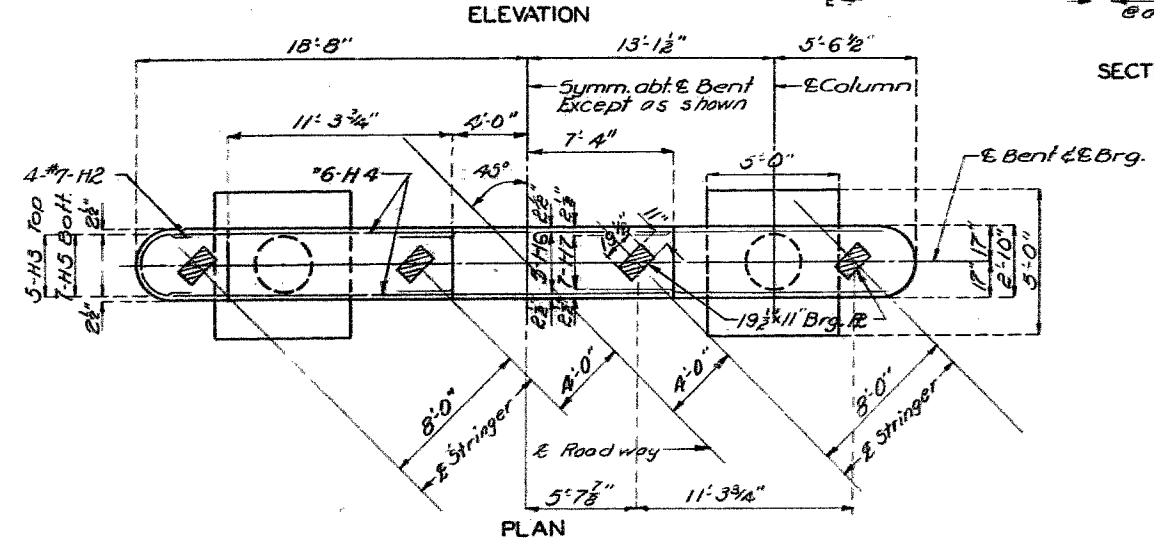
SECTION AT D-D



SECTION AT E-E



DETAILS OF INTERMEDIATE BENT NO. 2



DETAILS OF INTERMEDIATE BENT NO. 3

BUCHANAN COUNTY

A-2582

DETAILED Feb. 1963 BY Hack
CHECKED Apr. 1963 BY Johnson

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

Sheet No. 4 of 9

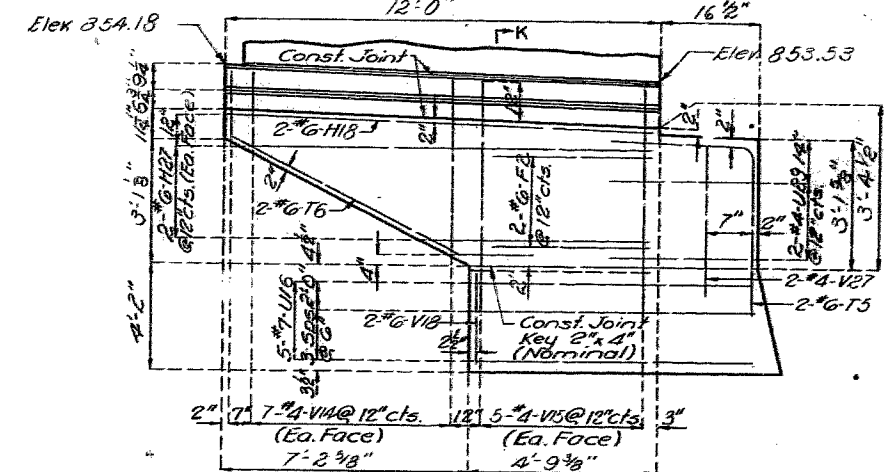
323

No. 19.2
Mar. 1964
Revised
Jan. 1965

10

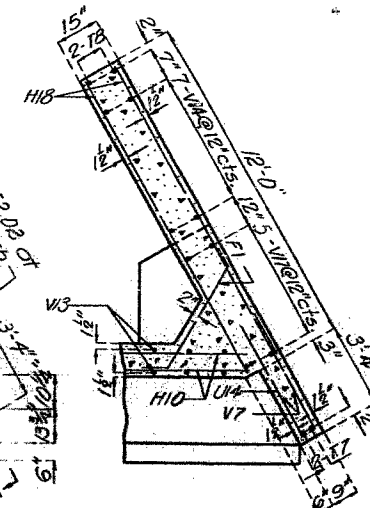
STD. 12.3	REVISED
APRIL 1965	NOV. 1968

STD	APR 1969	DETAILED Mar 1969 BY Heck
		CHECKED Apr 1969 BY Johnson



SECTION E-E

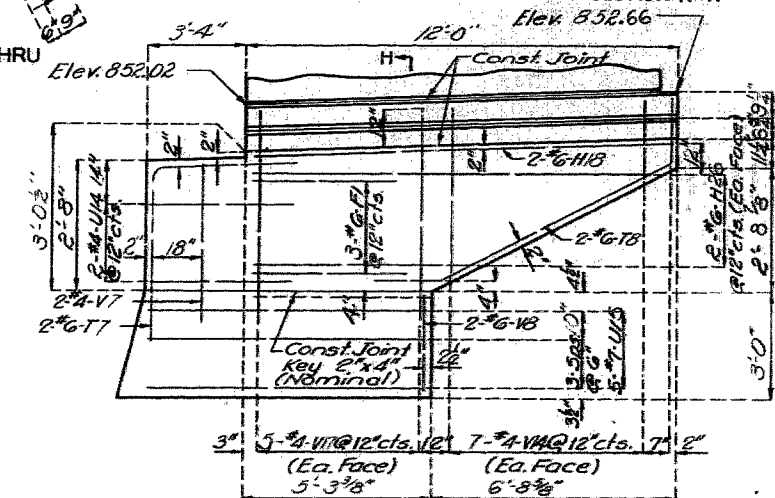
ELEVATION G-G



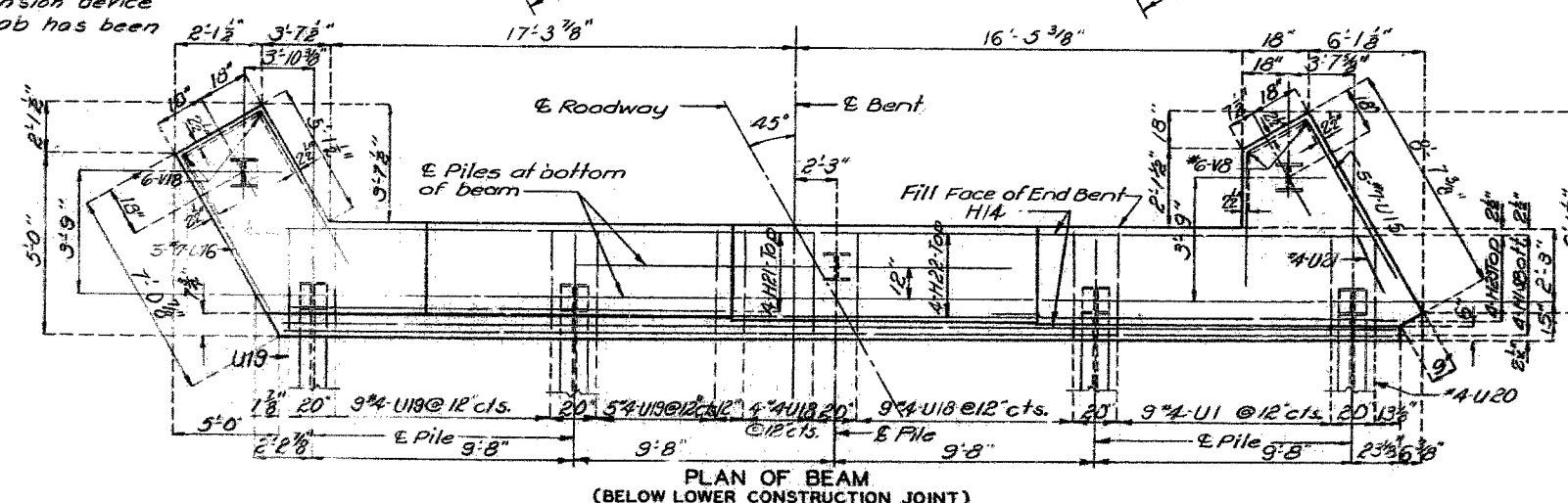
SECTION THRU WING

PART SECTION H-H

PART SECTION K-K



ELEVATION F-F



DETAILS OF END BENT NO. 4

Sheet No. 5 of 9

BUCHANAN

COUNTY

4-2582

325

Diagram 1: Shows a roof section with 2 layers of 55" roofing felt, a constant joint, and a bearing. Dimensions include 2'-6 1/8" and 10".

Diagram 2: Shows a roof section with 1 3/8" Bl. 2 and 1 3/4" Bl. 3, a constant joint, and a bearing. Dimensions include 2'-7 1/2" and 10".

Diagram 3: Shows a roof section with 15" L @ 33 3/4", 2" R @ 6" x 10", and 2" R @ 6" x 10", a constant joint, and a bearing. Dimensions include 2'-9 1/4" and 10".

[illegible]

Note: Longitudinal dimensions shown are taken parallel to grade at crown of roadway. Elevations shown are at bottom of top flange of stringers.

PROFILE GRADE ELEVATIONS

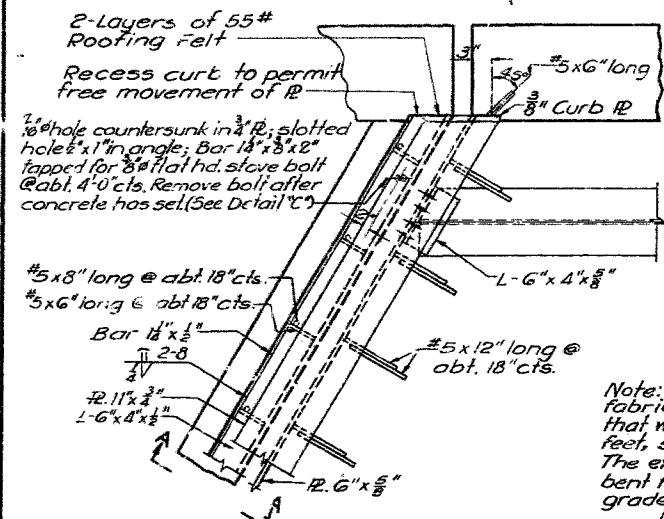
DETAIL OF ANCHOR BOLT WELLS

Sheet No. 6 of 9

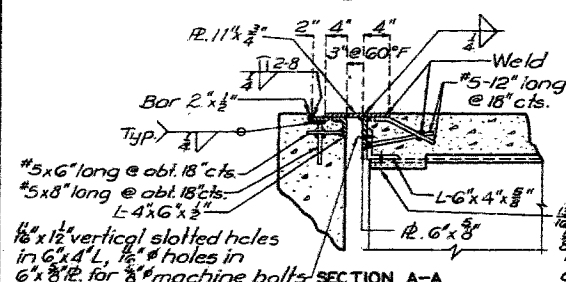
A-2582

MISSOURI STATE HIGHWAY DEPARTMENT

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

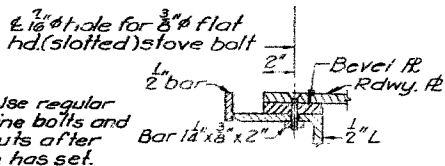


PART PLAN



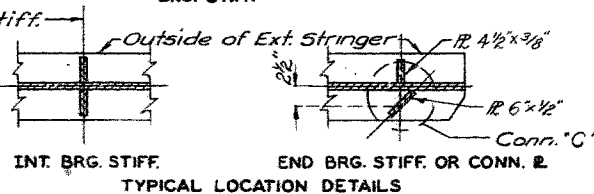
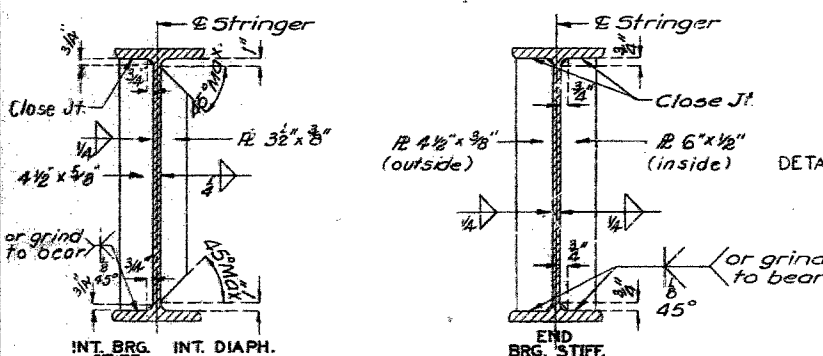
EXPANSION DEVICE AT END BENT NO. 4

Note: Expansion Device shall be fabricated in one section except that when the length is over 50 feet, splicing is permissible. The expansion device shall be bent to conform to crown and grade of roadway. No. 5 bars for expansion device shall be structural grade. Approved stud welded anchors may be used in lieu of #5 bars shown. Use 2 Layers of 55# Roofing Felt between the sliding contact surface of curb plate and concrete curb.

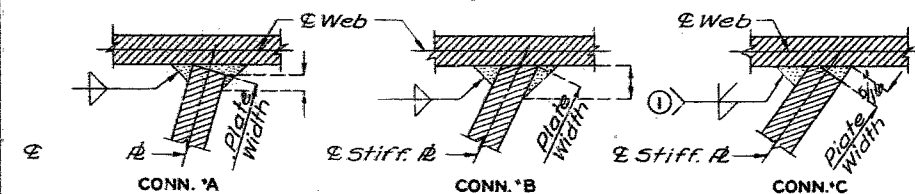


DETAIL 'C'

BEVEL PLATE DETAILS OF BEVEL PLATE AT END BENT NO. 4



TYPICAL LOCATION DETAILS



WELDING DETAILS

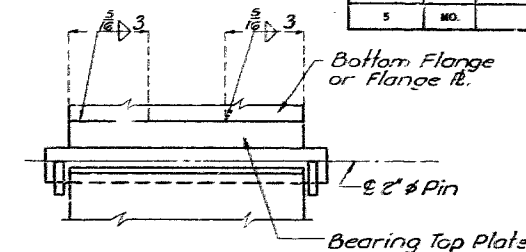
NOTES: TYPE 'D' BEARINGS

Lead plates under bearings shall be approximately 8" thickness and weigh 8#/sq. ft. Cost of lead plates shall be included in price bid for other items. Estimated weight does not include weight of anchor bolts.

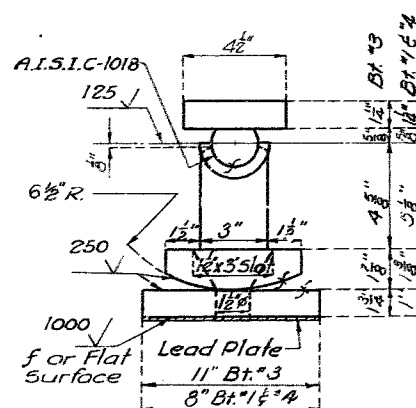
Anchor Bolts for Type 'D' Bearings shall be 1 1/4" diameter swaged bolts and shall extend 12" into concrete, with hexagon nuts and plain washers for Fixed Bearings, no nuts for Expansion Bearings.



END VIEW OF WEB EXPANSION BEARING

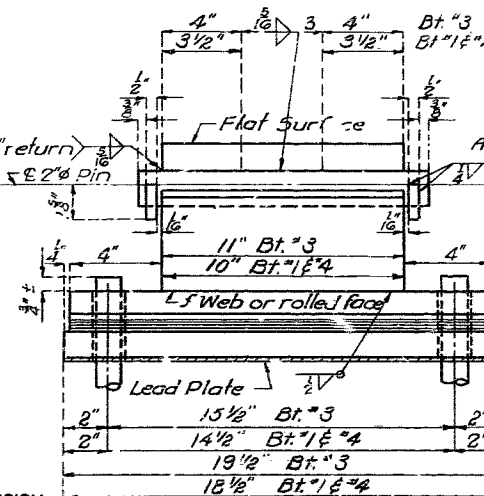


WELDING DETAILS

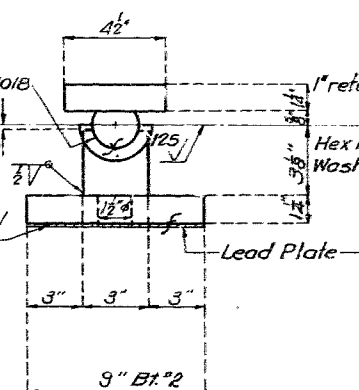


EXPANSION

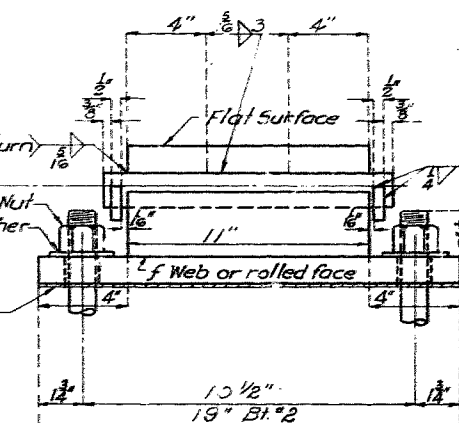
Required: 4 @ Bt. #1
4 @ Bt. #3
4 @ Bt. #4



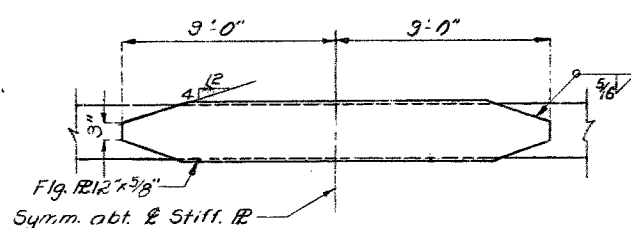
TYPE 'D' BEARINGS
(Estimated Weight 2425#)



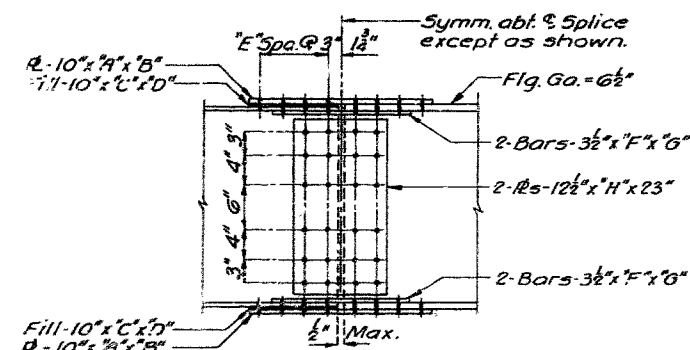
Required: 4 @ Bt. #2



FIXED



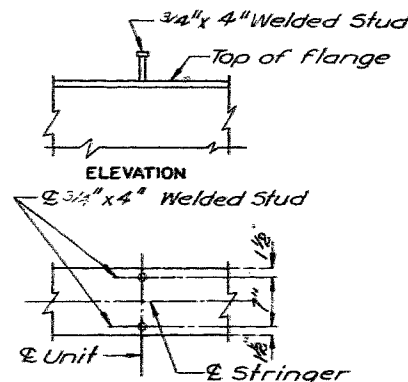
TOP FLANGE
BOTT. FLANGE
DETAIL OF FLANGE PLATES INT. BENTS



Note: 1/8" reamed holes for 3/8" high strength bolts.

SIZE OF BEAM	A"	B"	C"	D"	E"	F"	G"	H"
27 WF 84 to 84	7/16"	2'-0 1/2"			3	1/2	18 1/2"	3/8"

DETAIL OF 27" WF BEAM SPLICE



DETAILS OF SHEAR CONNECTORS

BUCHANAN

COUNTY

FED ROAD DISTRICT NO	FED AID PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
		19	14	

shall not be more than 1" from 8" plate if top device

30'-9"
15'-4 1/2"
15'-4 1/2"

& Roadway
Fill Face of End Bent

#4-56

3/4 Jt. Filler

2-#5-55

3/4 Jt. Filler

58"-5-57 @ 5 1/2"
(Top & Bottom)

58"-6 1/8"

SPAN(1-2)

17"
4 1/2"
1"
& 1/2" Joint Filler (Curb & Parapet)

8'-0"
8'-0"

TOP REINFORCEMENT

31-#4-56
Spaced as shown
5 Units @ 54"-6"
(Min. Lap 12")
15-Spa. @ 12"

Bottom Reinforcement

36-#5-55 Spaced as shown
5 Units @ 54"-9"
(Min. Lap 15")
12-#5-55 @ 9 Sps.
2-#4-56 @ 54"-6"
(Min. Lap 12")

& Stiff. IR

303-#5-51 @ 5 1/2" cts. (Top & Bottom)
64'-11 5/8"
168'-5 1/4"

SPAN(2-3)

16 1/2"
& 1/2" Joint Filler (Curb & Parapet)

8'-0"
8'-0"

Exposed face of 5/8" R.

Fill Face of End Bent

51'-0"

58"-5-58 @ 5 1/2"
(Top & Bottom)

21 1/4"

SPAN(3-4)

Note: Longitudinal shown are taken to grade at crown.

Note: Longitudinal dimensions shown are taken parallel to grade at crown of Rdwy.

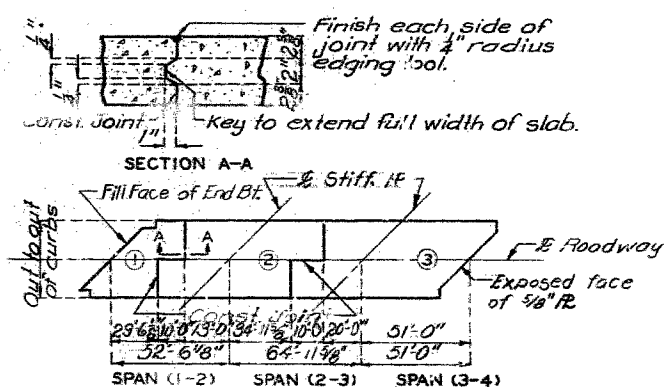


Diagram of a continuous beam over four supports. The beam is divided into sections with varying reinforcement bars (2Brg, 3Brg, 4Brg). Dimensions for each section are provided in feet and inches.

Section	Reinforcement	Dimensions (ft-in)
Str. No. 1	2Brg	1'-2 1/2", 1'-2 1/2", 1'-2 1/2", 1'-2 1/2"
Str. No. 2	3Brg	1'-2 1/2", 1'-2 1/2", 1'-2 1/2", 1'-2 1/2"
Str. No. 3	4Brg	1'-2 1/2", 1'-2 1/2", 1'-2 1/2", 1'-2 1/2"
Str. No. 4	2Brg	1'-2 1/2", 1'-2 1/2", 1'-2 1/2", 1'-2 1/2"

Bottom of Top Slab

Span (1-2) (4-3) SPAN (2-3) 2Brg. 3Brg. 4Brg. SPAN (3-4)

THEORETICAL SLAB HAUNCHING DIAGRAM

Str. No. 1

Str. No. 2

Str. No. 3

Str. No. 4

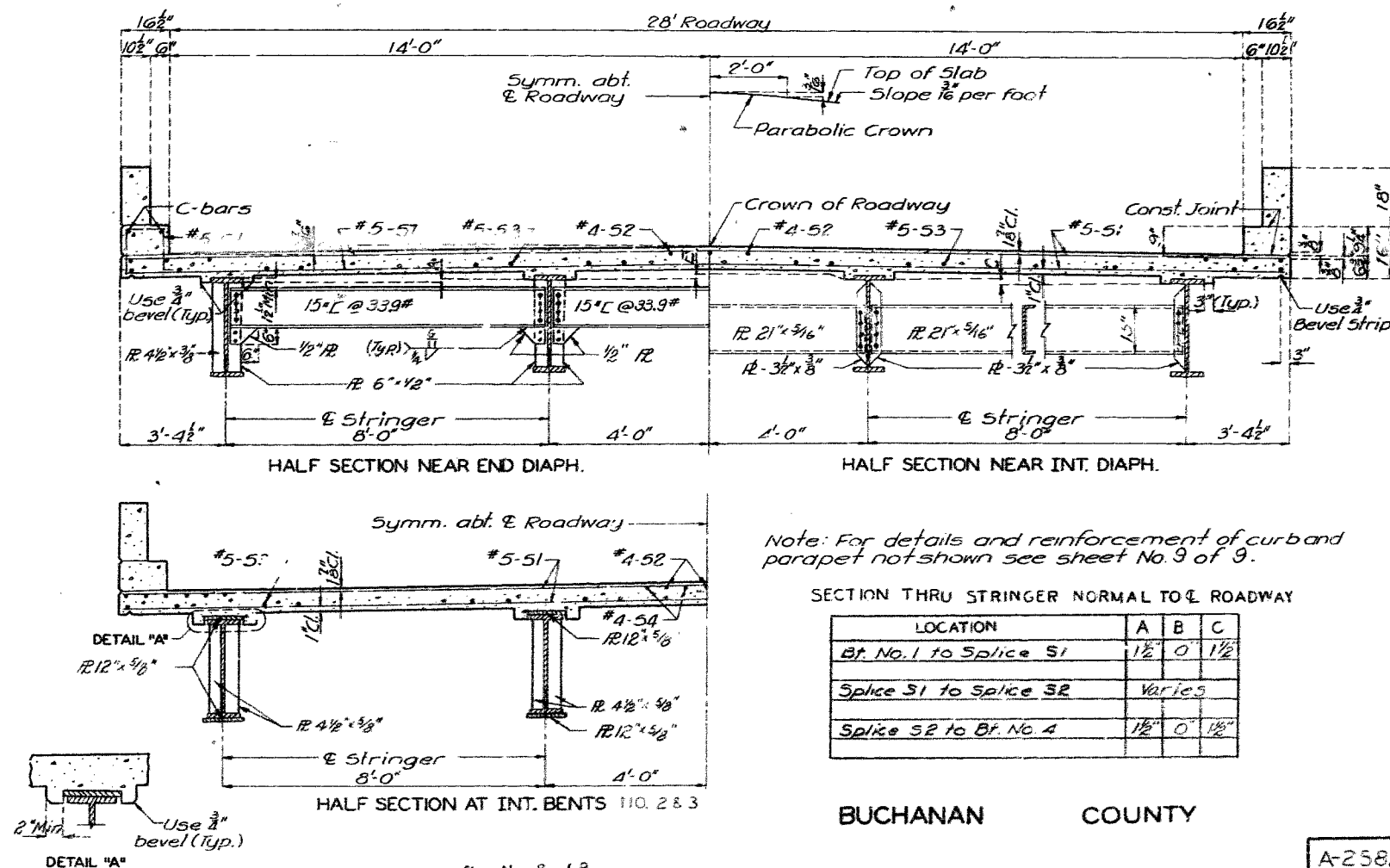
SPAN (1-2)(4-3) SPAN (2-3) SPAN (3-4)

DEAD LOAD DEFLECTION

	Sequence of Pairs Direction		
Basic Sequence	1	2	3
Alternate A" Pairs	End to 2	1 to 3	2 to End
Alternate B" Pairs	1+2		3
	End to 3	2 to End	
	1+2+3		
	End to End		

Note: The contractor shall pour and satisfactorily finish the slab pours at a rate of not less than 25 cubic yards per hour.

SLAB POURING SEQUENCE



Note: For details and reinforcement of curb and parapet not shown see sheet No. 9 of 9.

SECTION THRU STRINGER NORMAL TO ROADWAY

LOCATION	A	B	C
Bt. No. 1 to Splice S1	1 1/2"	0"	1"
Splice S1 to Splice S2	Varies		
Splice S2 to Bt. No. 4	1 1/2"	0"	1 1/2"

BUCHANAN COUNTY

A-2582

NO. 41.28, 4A	REVISED
OCT. 1964	JAN. 1969

DETAILED Feb. 1969 BY Heck
CHECKED Apr 1969 BY Johnson

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

Sheet No. 8 of 9.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	15	

A-2582

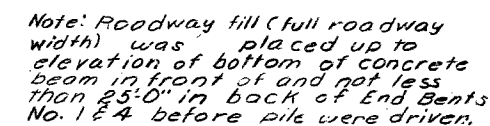
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
5	MO.	5-1173(2)	19		

FINAL PLANS

H15-44 15#/sq. ft. Future Wearing Surface
Earth 120#. Equivalent Fluid Pressure 30#

Class B Concrete (substructure) $f_c = 1,200$ psi
Class BI Concrete (superstructure) $f_c = 1,600$ psi
Reinforcing Steel $f_s = 20,000$ psi
Structural Steel $f_s = 20,000$ psi
Steel Pile $f_b = 6,000$ psi

Field connections, High Strength Bolts $\frac{3}{4}"\phi$,
holes $\frac{13}{16}"\phi$ except as noted.
Paint: Shop, none; Field, by state forces, except
as noted in Std. Spec. 712.12.2.



PILE & FOOTING DATA					
BENT NO.		1	2	3	4
BEARING PILE	Pile Type and Size	10BP42			10BP42
	Number	7			7
	Average Length Ft.	118			23
	Design Bearing Tons	26			26
	Hammer Energy req'd Ft.Lbs.	7,000			7,000
SPREAD FOOTINGS	Foundation Material		Shale	Limestone	
	Design Bearing Tons / Sq. Ft.		7.4	8.0	

Minimum energy requirement of hammer based on plan length and design bearing value of piles. Increase by the factor $(W+w)/2W$ when the weight of the ram (W) is less than the weight of the pile (w).
All pile were driven to practical refusal.

FINAL QUANTITIES			
ITEM	SUBSTR.	SUPERSTR.	TOTAL
Class 1 Excavation for Structures Cu.Yd.	26.5		26.5
Class 2 Excavation for Structures Cu.Yd.	35.0		35.0
Steel Pile in Place Lin.Ft.	28.4		28.4
Class B Concrete Cu.Yd.	103.2		103.2
Class B1 Concrete Cu.Yd.		149.9	149.9
Reinforcing Steel Lbs.	15,100	49,670	55,770
Fabricated Structural Carbon Steel lbs.		77,610	77,610
Bridge Rail (One Tube) Lin Ft.		360	360
Bridge Removal Each			1
Test Holes (Continuant) Lin Ft.	17		17

B.M. Elev. 844.47 Sta. 599+67.25 150' Rt. Brass Pin
in Top of Curb Southwest Corner
(U.S.G.S. Datum 1929 Adj.)

COUNTY:

DATE 5-15-43

DATE 5-26-73

A-2582



Drainage Area:
5.3 sq. Miles (Lt. Hilly)
Des. Q = 3080 cfs
Freq. = 25 yr.

Sheet No. 1A of 2

FINAL PLANS

DESIGNED Jan. 1969 BY Mizoni
 DETAILED March 1969 BY Heck
 CHECKED Apr. 1969 BY Johnson

330

NO. 10.2
Mar. 1964
Revised
Jan. 1965

DETAILED Feb. 1963 BY Heck
CHECKED Apr. 1963 BY Johnson

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

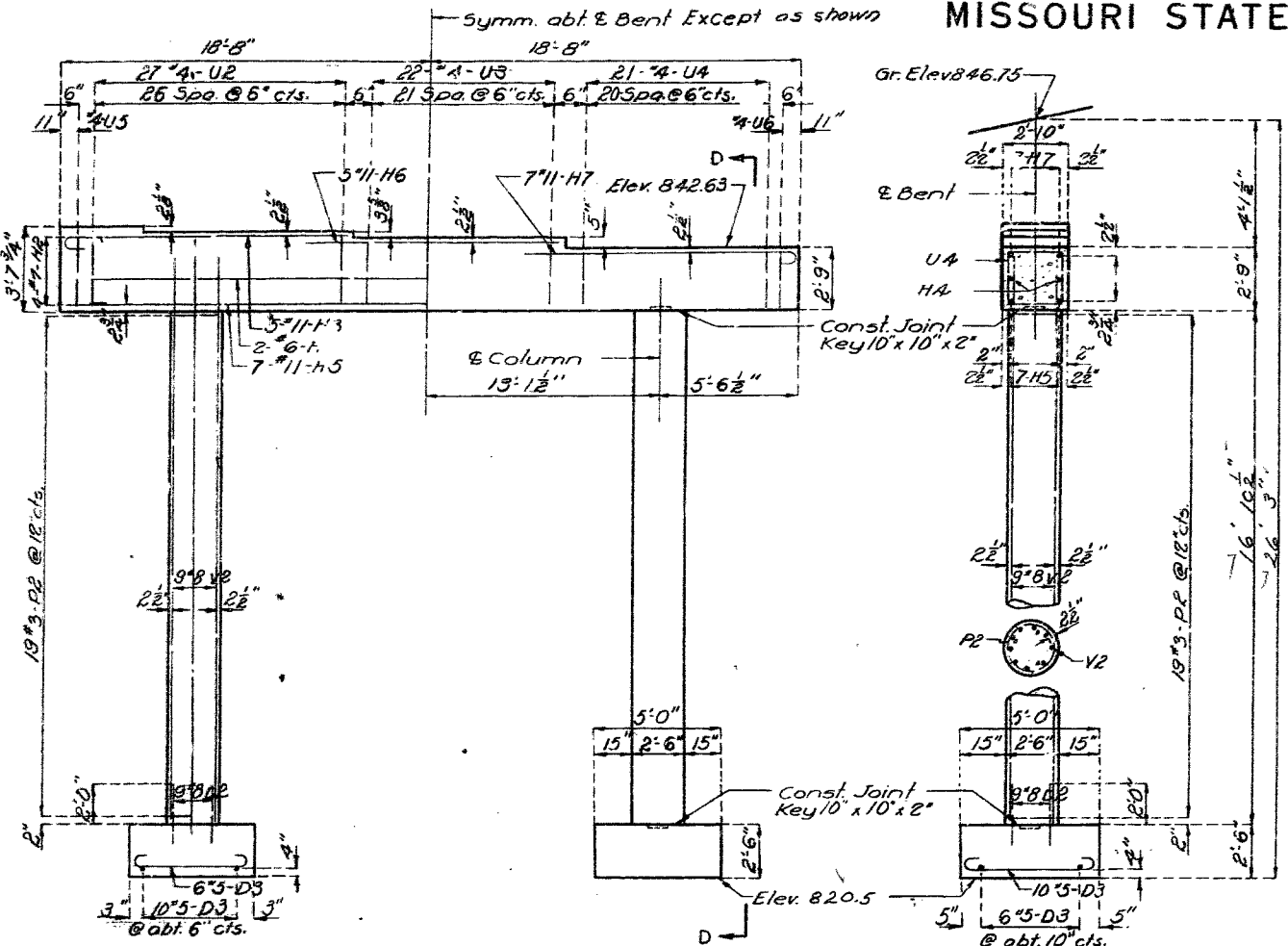
Sheet No. 4Aol 2

FINAL PLANS

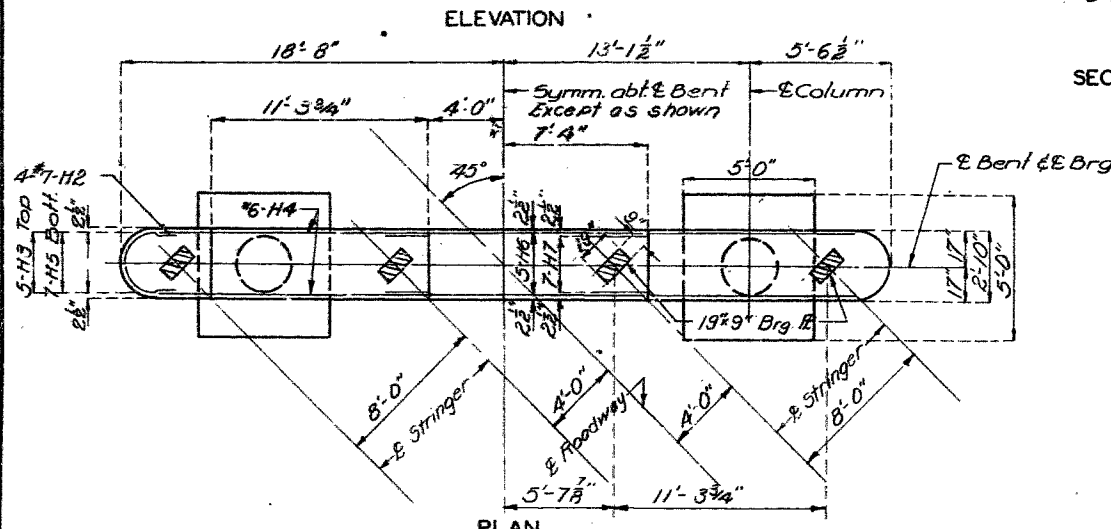
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	5-1173(2)	15		

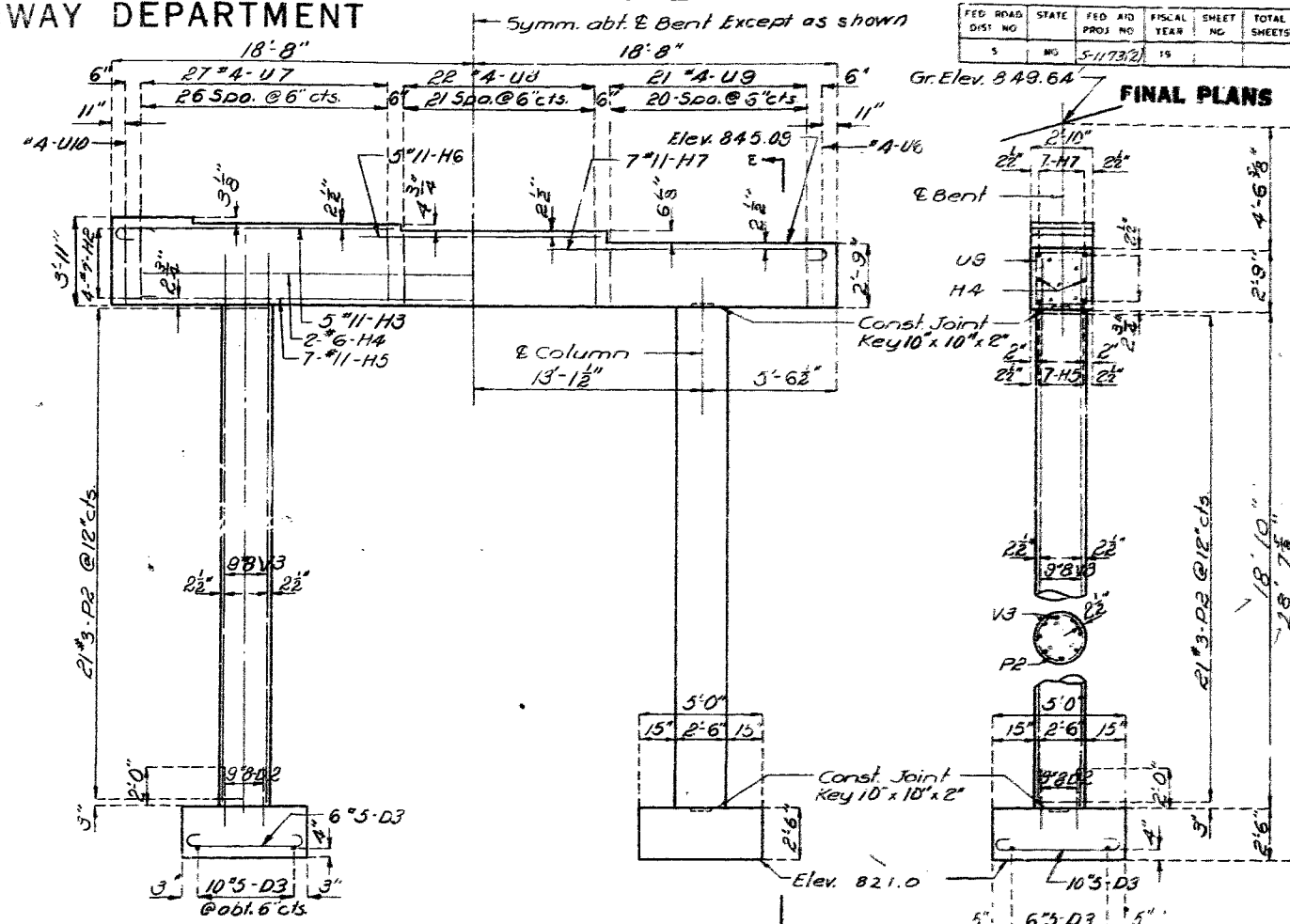
FINAL PLANS



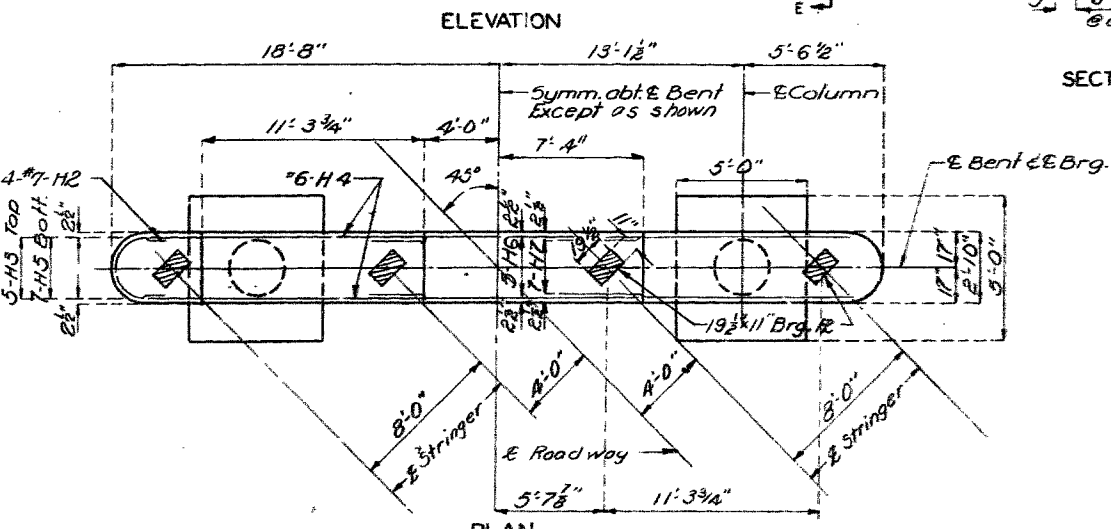
SECTION AT D-D



DETAILS OF INTERMEDIATE BENT NO. 2



SECTION AT E-E



DETAILS OF INTERMEDIATE BENT NO. 3

BUCHANAN COUNTY

A-2582

STRUCTURAL REHABILITATION CHECKLIST

Bridge No.: **A2582**

Job No.: **JNW0008**

Route: **DD**

Over: **Jenkins Creek**

County: **Buchanan**

Date of Field Check: **7/03/2022**

* * * Please include photographs for all items that apply. * * *

1

OVERLAY

* Type of existing overlay: ☒ None ☐ Asphalt ☐ Low Slump ☐ Silica Fume ☐ Latex ☐ Epoxy ☐ Other: _____

* Existing overlay thickness: _____ " * Year overlay was applied: _____ ☐ Unknown

* % of overlay repaired or patched: _____ % * Replace overlay: ☐ Yes ☐ No

* Notes: _____

Picture **4 - Looking East**
#

2A

DECK REPAIRS (Deck repair quantities are required even if a Deck Test request has been ordered for this structure.)

* Half-sole repairs: _____ sq. ft. * Full depth repairs: _____ sq. ft.
(round up to the nearest 50 sq. ft.) (round up to the nearest 50 sq. ft.)

* Existing deck repair (patching): _____ sq. ft.
(round up to the nearest 25 sq. ft.)

* Slab edge repairs: _____ lin. ft. * Superstructure repair (Unformed): _____ sq. ft.
(covers the outer 4" of the slab edge) (covers the remaining slab cantilever beyond the outer 4")

* Clean & epoxy coat slab edge: _____ lin. ft. * Cantilever replacement: _____ lin. ft.
(in lieu of edge repairs)

* Total surface hydro demolition of bridge deck: ☐ Yes ☐ No * Full deck replacement (redeck): ☒ Yes ☐ No ☐ Optional
(half-sole, full depth and exist. deck repair quantities still required)

* Deck repairs with voided tube replacement: ☐ Yes ☐ No * Superstructure replacement: ☐ Yes ☒ No ☐ Optional
(minimum of 10% of half-sole repair quantity) (Deck repair quantities required for cost comparison of alternatives)
_____ sq. ft.

* Full bridge replacement: ☐ Yes ☒ No ☐ Optional

* How were the quantities obtained? ☐ Visual ☐ Bridge Inspection Report ☐ Sounded ☐ Other _____

* Notes: _____

Picture **4 - Looking East**
#

DECK REPAIRS CONT.*** ISSUES / PROBLEMS WITH PRECAST PRESTRESSED DECK PANELS**

Spans	Location in Span						Deterioration		Describe
	At Panel Jt.	Btwn (mid) Panel Jt.	End		Mid	End	Type	Amount	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		sq. ft	

* Notes: **N/A**

(Deterioration may include water saturation, efflorescence, rust staining, cracking, spalling, exposed steel, disintegration of panel edges at joints, etc. Typically observed at or near panel joints. The location and "Type" of deterioration should be recorded.)

Picture
#

APPROACH SLABS

* Is there a bridge approach slab in place? ☐ Yes ☒ No * Type: ☐ Concrete ☐ Asphalt ☐ Other _____

* Is there rdwy. approach pavement in place? ☐ Yes ☒ No * Type: ☐ Concrete ☐ Asphalt ☐ Other _____

* Is the approach slab sinking at the end bent? ☐ N/A ☒ Yes ☐ No **Approx. 1"**

* Are repairs needed to the bridge approach slab driving surface? ☐ Yes ☐ No _____
(Typically a roadway item but will be reported to District on the Bridge Memorandum.)

* Full replacement of bridge approach slab? ☐ Yes ☐ No **?** _____

* Notes: _____

Picture **4 - Looking East**
#

4

SLAB DRAINS

* Is the drainage system working adequately? ☒ Yes ☐ No

* Recommendations: **Install floor drains**

* Notes:

Picture
#

5

CURBS & RAILS

* Existing curb (left side): ☐ Safety Barrier Curb ☒ Curb/parapet ☐ Blockouts ☐ Thrie Beam ☐ Baluster ☐ Steel Channel

☐ Other _____ ☒ Handrail ☐ Fence _____

* Does curb need repair ☐ Yes ☐ No

* Curb repair _____ lin. ft.

* Remove hand rail ☐ Yes ☐ No

* Add curb blockout ☐ Yes ☐ No

* Existing curb (right side): ☐ Safety Barrier Curb ☒ Curb/parapet ☐ Blockouts ☐ Thrie Beam ☐ Baluster ☐ Steel Channel

☐ Other _____ ☒ Handrail ☐ Fence _____

* Does curb need repair ☐ Yes ☐ No

* Curb repair _____ lin. ft.

* Remove hand rail ☐ Yes ☐ No

* Add curb blockout ☐ Yes ☐ No

* Existing median curb: Type: **N/A** Width _____ " Height _____ "

* Does curb need repair ☐ Yes ☐ No

* Curb repair _____ lin. ft.

* Approach rail attachment: ☐ None ☐ Not attached ☒ 4 Hole ☐ 5 Hole ☒ Turn-down ☐ Other _____

* If the existing handrails will be removed, does the local maintenance supervisor wish to keep them? ☐ Yes ☒ No

Storage address: location: _____

address: _____

city: _____ state: _____ zip: _____

* Notes:

Picture **3 - Looking East, 11**
#

6

EXPANSION DEVICES

Bent	Type	Recommendations			Gap Left	Gap Right	Temperature & Other Info
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	"	"	

* Notes: **N/A**Picture
#

7

BEARINGS

Bent	Coating	Recommendations				Notes (indicate which bearings at each bent)
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Exist rocker
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fixed
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fixed
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Exist rocker
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

* Notes:

Picture # (Provide Pictures of Each Bearing)

13, 14, 15, 16 - West end bent; Bent 2 - 19, 20, 21, 22;

8

COATING SYSTEM (PAINT)* Existing coating system: _____ ☒ green ☐ gray ☐ other _____* Date last coated: **9/90*** Is existing coating peeling? ☐ Yes (Overcoat is not an option) ☒ No

* Coating recommendation:

☐ Blast clean & recoat all steel ☐ Clean & overcoat all steel☐ Blast clean & recoat only at joint locations ☐ Blast & recoat at joint locations and clean & overcoat all other steel

Note: Pull-off test required for overcoat (Calcium Sulfonate) option. Bridge Division will request pull-off tests.

* Notes: **Paint at abutments and top of girders**Picture
#

SUPERSTRUCTURE REPAIRS (Repairs needed not previously stated.)**Concrete Slab Superstructure or Girder:** (above the bearings) _____

(Example: Deck solid slabs, voided slabs, box girders,

deck girders & prestressed girders) _____

Steel: (Example: Beams, stringers, girders, diaphragms, cross-frames, misc. steel)**Member** (Check all that apply) (Attach pictures)**Describe & Locate**

_____	<input type="checkbox"/> Section Loss	_____ %	<input type="checkbox"/> Cracks	_____ in.	_____
_____	<input type="checkbox"/> Section Loss	_____ %	<input type="checkbox"/> Cracks	_____ in.	_____
_____	<input type="checkbox"/> Section Loss	_____ %	<input type="checkbox"/> Cracks	_____ in.	_____
_____	<input type="checkbox"/> Section Loss	_____ %	<input type="checkbox"/> Cracks	_____ in.	_____

Notes: **N/A**Picture
#**SUBSTRUCTURE REPAIR**

Bent	Formed Repair	Unformed Repair	Seal Concrete Beam Cap Bts.	Coat Exposed Pile @ Int. Pile Cap Bts.	Describe (Beam, Backwall, Wing, etc.)
1	_____ sq. ft.	_____ sq. ft.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
_____	_____ sq. ft.	_____ sq. ft.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
_____	_____ sq. ft.	_____ sq. ft.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
4	_____ sq. ft.	_____ sq. ft.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
_____	_____ sq. ft.	_____ sq. ft.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____

* Does the structure need graffiti protection? ☐ No ☐ Bottom 8' of Concrete ☐ End Bents ☐ Other _____* Notes: **Seal abutments**Picture
#

11 SIGNS, SIGNALS &/OR LIGHTING ATTACHED TO STRUCTURE			
* Are there signs attached directly to this structure?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	quantity _____ location _____
* Describe proposed work to be done to signs. _____			
* Are there signals attached directly to this structure?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	quantity _____ location _____
* Describe proposed work to be done to signals. _____			
* Is there aviation lighting attached to this structure?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A <input type="checkbox"/> Red <u> </u> <input type="checkbox"/> Green <u> </u> <i>qnty.</i> <i>qnty.</i>
* Is there navigational lighting attached to this structure?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A <input type="checkbox"/> Red <u> </u> <input type="checkbox"/> Green <u> </u> <i>qnty.</i> <i>qnty.</i>
* Is there roadway lighting attached to this structure?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
* Describe proposed work to be done to lighting. _____ _____			
* Notes: _____ _____			

Picture
#

UTILITIES ATTACHED TO STRUCTURE									
Type			Qty.	Size	Owner	Condition			
<input type="checkbox"/> Conduit	<input type="checkbox"/> Pipeline	<input type="checkbox"/> Other				<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove
<input type="checkbox"/> Conduit	<input type="checkbox"/> Pipeline	<input type="checkbox"/> Other				<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove
<input type="checkbox"/> Conduit	<input type="checkbox"/> Pipeline	<input type="checkbox"/> Other				<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove
<input type="checkbox"/> Conduit	<input type="checkbox"/> Pipeline	<input type="checkbox"/> Other				<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove

* Notes: **N/A**

Picture
#

13

CATHODIC PROTECTION SYSTEM

* Is there a cathodic system on this structure? ☐ Yes ☒ No ☐ Remove ☐ Do not alter ☐ Abandon in place (grooved system)

* Is it on and working? ☐ Yes ☐ No ☐ Unknown _____

* Notes: _____

Picture

#

14

CHANNEL ALIGNMENT, SLOPE PROTECTION & SCOUR

* Is channel aligned to bridge opening? ☒ Yes ☐ No Describe _____

* Is drift a continual problem? ☐ Yes ☒ No Describe & Locate _____

* Is erosion a problem? ☐ Yes ☒ No Describe & Locate **Rubelize deck on spill fills**

* Describe slope protection in place. **Grouted rock at abutments**

Scour	At Footing	At Piling	Depth	Bent	Recommendation
	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____

* Describe needed work. _____

Picture

#

15

TRAFFIC LANES

* Number of lanes striped: on structure **2** under structure _____

* Shoulder width: ☐ None on structure **2'** **2'** under structure _____
(left) (right) (left) (right)

* Sidewalk widths: on structure _____ under structure _____
(left) (right) (left) (right)

* Median width: on structure _____ under structure _____

* Proposed improvements for lanes/shoulders/sidewalks: **N/A**

Picture

#

16

GENERAL AREA CONDITIONS

* Primary area: ☐ Commercial ☐ Industrial ☐ Residential ☒ Agricultural ☐ Military ☐ Other _____

* Posted speed limit on structure: 55 mph

* Posted load on structure: _____ tons @ _____ mph ☒ NA

Single Unit: _____ tons @ _____ mph ☒ NA

Semi (tractor/trailer): _____ tons @ _____ mph ☒ NA

* Are both signs in place?

☐ Yes ☐ No

* Do pedestrians and/or bicyclists regularly use this structure? ☐ Yes ☐ No ☒ Undetermined

* Notes: _____

Picture
#

17

MAINTENANCE

* What work has been done to this structure that may not be reflected on existing bridge plans? _____

Deck patches

Picture **4 - Looking East, 5, 6 -West Bridge Approach**
#

18

ADDITIONAL FIELD NOTES Hass existing concrete drain basins at low end of bridge

Picture **Bridge photos are in A2582 - 2022.ppt, A2582 Bridge Checklist Photo Album.ppt, Buchanan_A2582_Pics_2022.pdf and A2582 SRC Photos - 2022.zip**
#

19

STAGING / DETOUR

* **Traffic Control:** ☒ Close structure ☐ Stage construction on structure ☐ Cross over traffic to adjacent structure ☐ Detour

☐ Other option _____

* **Define probable detour route.** _____

20

PERSONS ASSISTING WITH CHECKLIST

Name	<u>Scott Stephens</u>	Title	<u>District Bridge Engineer</u>	Ph.	<u>(816) 390 - 3641</u>
Name	<u>Bryce Acton</u>	Title	<u>District Bridge Engineer</u>	Ph.	<u>(816) 390 - 3641</u>
Name	<u>Brian Rosenthal</u>	Title	<u>Project Manager</u>	Ph.	<u>(816) 387 - 2499</u>
Name	<u>Joyce Reynolds</u>	Title	<u>Project Manager</u>	Ph.	<u>(816) 387 - 2411</u>
Name	_____	Title	_____	Ph.	<u>() - </u>

21

REQUIRED SIGNATURES

I have reviewed the information on this checklist and believe it to be as accurate as possible.

Name	_____	Date	_____
	<i>Transportation Project Manager</i>		
Name	_____	Date	_____
	<i>District Bridge Engineer</i>		

The structural rehabilitation checklist indicates how the bridge is functioning and aging.

All deterioration should be noted, even if it is known that the work will not be completed under the proposed project.

Send **NEW** Structural Rehabilitation Checklist by email

To: "Bridge Survey Processor"

Cc: Structural Project Manager or Structural Resource Manager