

Bridge Number:

K 0982

Route/County:

67 / Butler

Asbestos-Containing Material Present?

Yes: ☐

No: ☒

If yes, see report for location(s).

Structural Steel Present?

Yes: ☐

No: ☒

If No, then skip the following.

Lead-Based Paint (LBP) Present?

Yes: ☐

No: ☐

Trusses LBP?

Yes: ☐ No: ☐

Girder LBP?

Yes: ☐ No: ☐

Railing LBP?

Yes: ☐ No: ☐

Pile LBP?

Yes: ☐ No: ☐



MEMORANDUM

Missouri Department of Transportation Construction and Materials Central Laboratory

TO: TMS
FROM: Leonard Vader *Leonard Vader*
Environmental Chemist
DATE: May 15, 2019
SUBJECT: Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route 67
Bridge K-0982
Butler County

We are providing you with the results of the inspection on the above referenced bridge. The inspection report contains an asbestos and a heavy metals survey. The asbestos inspection included identifying suspect asbestos-containing material and NVLAP accredited testing to confirm the presence of asbestos.

Form T746 – This will show if samples were taken, where from, and, if the sample was found to contain asbestos, our estimated quantity of material present. Under the column “Friability Category” this is the meaning for the following:

N-ACM – No asbestos detected.

I NF – Asbestos is present. Material shall be handled carefully by a licensed abatement worker and kept wet if removing as part of a maintenance activity.

II NF – Asbestos is present. If removal is required for the maintenance activity, use an abatement contractor.

In accordance with Missouri Department of Natural Resources’ Technical Bulletin “Managing Construction and Demolition Waste” dated January 31, 2003, a heavy metal paint survey has been performed on the above referenced bridge. This survey includes locating concrete which has been painted with something other than traffic paint or graffiti, and testing the painted surface(s) to determine if hazardous heavy metals are present. If the bridge is being removed completely, or the maintenance repairs include removing the painted concrete, then, non-hazardous painted concrete may be used as clean fill materials, if properly handled. You must contact the Central Office Design Division for proper handling of the reported painted surfaces.

Although our survey included observing and sampling all accessible areas, it is possible that potentially hidden asbestos-containing materials may exist within the structure. Should you have any questions regarding these reports, please contact me at (573) 751-9252.

sm/lv

[http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared documents/asbestos/districts/southeast \(se\)/mt/k0982/k0982 asbestos cover letter.docx](http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared%20documents/asbestos/districts/southeast(se)/mt/k0982/k0982%20asbestos%20cover%20letter.docx)

Attachments

TYPE(S) OF STRUCTURE(S): Bridge

N-ACM = Non-Asbestos Containing Material I NF = Category I Nonfriable
NAFD = No Asbestos Fiber Detected * = Tested By Point Count Procedure

II NF = Category II Nonfriable F = Friable

Nonfriable Asbestos-Containing Materials
(Abatement not required if not made friable during demolition.)

Bridge K-0982

I NF = Category I Nonfriable

All materials requiring removal or special handling.

CERTIFICATION #:	7020101818MOIR2672
SITE ADDRESS:	Over Hart Drain Ditch
TYPE(S) OF STRUCTURE(S):	Bridge

I NF = Category I Nonfriable	II NF = Category II Nonfriable	F = Friable	* = Tested By Point Count Procedure
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
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99	99	99	99
100	100	100	100

**MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes**

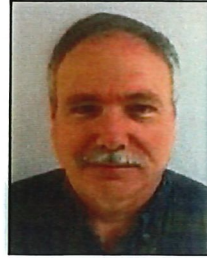
ROUTE:	67	TESTED BY:	N/A
MODOT JOB NO.:	N/A	DATE OF TESTS:	N/A
DISTRICT:	SE	PARCEL NO.:	Bridge K-0982
COUNTY:	Butler	SITE ADDRESS:	Over Hart Drain Ditch
SURVEYED BY:	Robert Marshall <i>RM</i>	TYPE(S) OF STRUCTURE(S):	Bridge
DATE OF SURVEY:	April 23, 2019		

[illegible]

All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050 b = USEPA SW-846 Method 7471

CERTIFICATION NUMBER:
7020101818MOIR2672

THIS CERTIFIES
Leonard A. Vader
HAS COMPLETED THE CERTIFICATION
REQUIREMENTS FOR
Inspector



APPROVED: **10/22/2018**
EXPIRES: **10/22/2019**

TRAINING DATE: **10/18/2018**


Director of Air Pollution Control Program

CERTIFICATION NUMBER:
7020101818MOIR18860

THIS CERTIFIES
Robert S Marshall
HAS COMPLETED THE CERTIFICATION
REQUIREMENTS FOR
Inspector

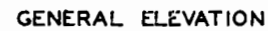


APPROVED: **10/22/2018**
EXPIRES: **10/22/2019**

TRAINING DATE: **10/18/2018**


Director of Air Pollution Control Program

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	SH-FA58-C1(2) (USG7)	19		



Plan view of a bridge structure showing three spans and two bents. The diagram includes dimensions for spans (26'-0"), bents (9'-0 1/2"), and various offsets and angles. A triangle on the right shows a 35-degree angle and a 7.002 horizontal distance for a 10.00 vertical distance. The bridge is labeled "Sta. 799+69.5".

PLAN



No.	Size	Length	Mark	Location	Bending Sketches & Cutting Diagrams				No.	Size	Length	Mark	Location
Superstructure					End Bents No. 1 & No. 4				32	$\frac{3}{4}"$	6'-9"	H1	Wing
8	$\frac{3}{4}"$	9'-0"	R1	Rail	32				$\frac{3}{4}"$	24'-5"	H2	Beam	
48	$\frac{3}{4}"$	9"	R2	"	8				$\frac{3}{4}"$	23'-6"	H3	"	
52	$\frac{3}{4}"$	8'-9"	R3	Sub Post	6				$\frac{3}{4}"$	8'-6"	VI	Wing	
32	$\frac{3}{4}"$	4'-0"	R4	Post	72				$\frac{3}{4}"$	10'-9"	UI	Beam	
464	$\frac{1}{8}"$	18"	R5	Balusters	14				$\frac{3}{4}"$	7'-6"	U2	"	
8	$\frac{3}{4}"$	6'-6"	R6	Rail	8				$\frac{3}{4}"$	10'-9"	TI	Wing	
8	$\frac{3}{4}"$	7'-9"	R7	"					Interior Bents No. 2 & No. 3				
24	$\frac{3}{4}"$	8'-9"	R8	"	16				$\frac{3}{4}"$	37'-6"	G1	Bagm	
8	$\frac{3}{4}"$	7'-6"	R9	"	4				$\frac{3}{4}"$	35'-6"	G2	"	
12	$\frac{3}{4}"$	7'-0"	R10	Post	54				$\frac{3}{4}"$	10'-9"	UI	Beam	
12	$\frac{3}{4}"$	6'-0"	R11	"	16				$\frac{3}{4}"$	7'-6"	U2	"	
8	$\frac{3}{4}"$	10'-0"	R12	Rail									
64	$\frac{3}{4}"$	4'-0"	R13	"									
6	$\frac{3}{4}"$	28'-3"	C1	Curb									
116	$\frac{3}{4}"$	4'-0"	C2	"									
6	$\frac{3}{4}"$	25'-9"	C3	"									
6	$\frac{3}{4}"$	23'-6"	C4	"									
150	1"	25'-9"	S1	Slob									
36	$\frac{1}{8}"$	25'-9"	S2	"									
27	$\frac{3}{8}"$	29'-6"	S3	"									
69	$\frac{3}{8}"$	31'-9"	S4	"									
6	$\frac{3}{8}"$	2'-9"	S5	"									
24	$\frac{3}{8}"$	7'-0"	S6	"									
6	$\frac{3}{4}"$	35'-3"	S7	"									

ESTIMATED QUANTITIES			
Item	Superstructure	Substructure	Total
Class I Excavation for Structures Cuts		80	80
Class "B" Concrete (Handrail) Cu.Yds.	11.1		11.1
Class "3" Concrete Cu.Yds.	166.6	47.4	214.0
Reinforcing Steel Lbs.	20290	4120	24410
Concrete Piles in Place Lin.Ft.		840	840

Design Specifications A. A. S. H. O. -1935.
Loading H-15
Reinforcing Steel Stress 18,000#/sq.
Concrete Class "B" 900#/sq.
All concrete shall be Class "B".

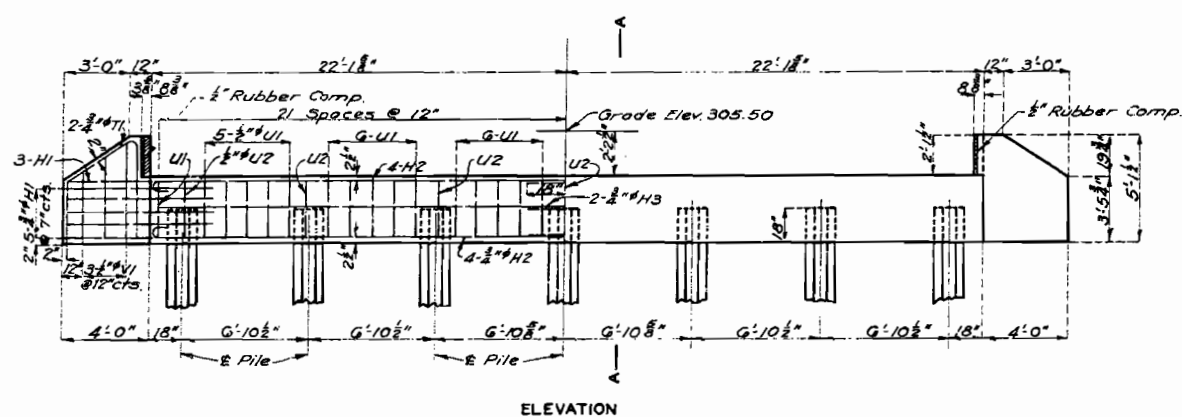
SUBMITTED BY N.R. Lacy DATE 12/6/40
BRIDGE ENGINEER
APPROVED BY C.W. Brown DATE 12/6/40
CHIEF ENGINEER

K-982

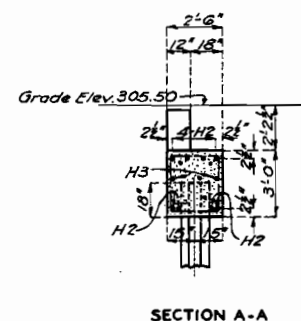
Sheet No. 1 of 3.

Om

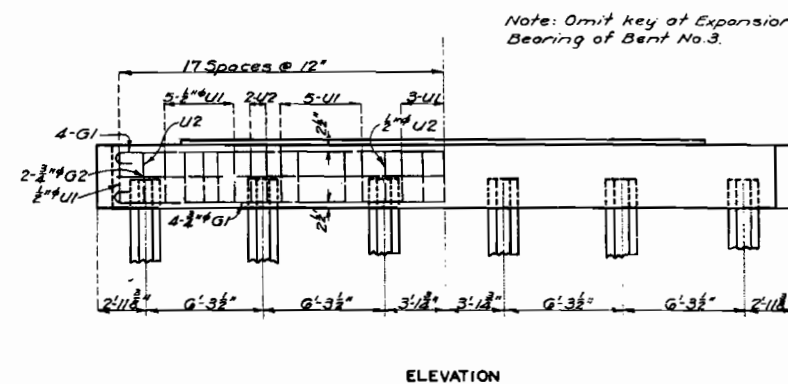
FED ROAD DIST NO	STATE	FED AID PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEET
5	MO	9A-FASB-C1(2) (1567)	19		



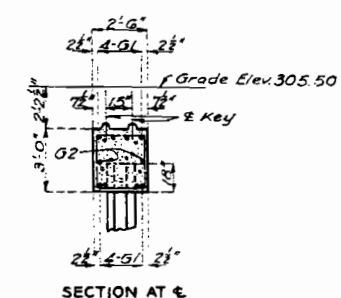
ELEVATION



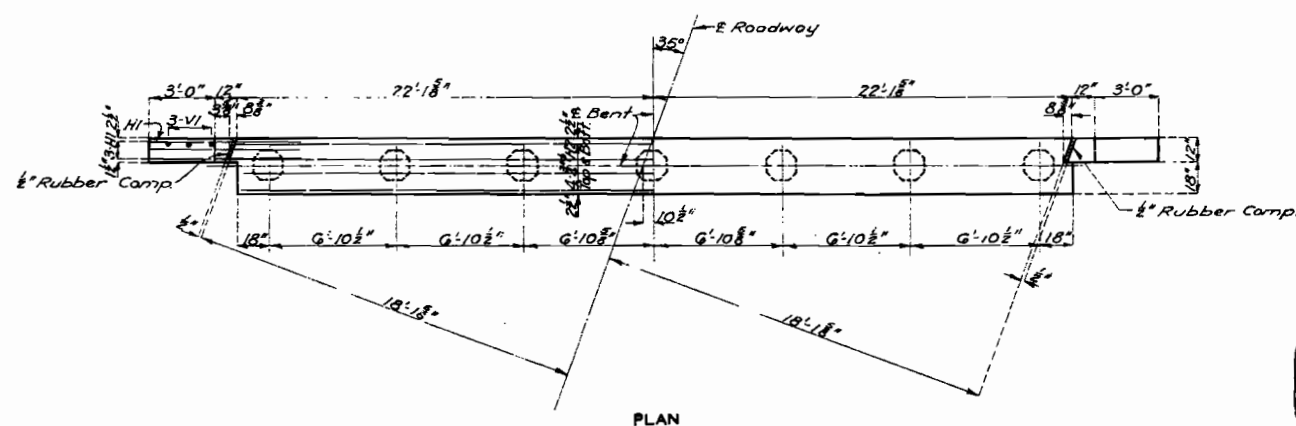
SECTION A-A



ELEVATION

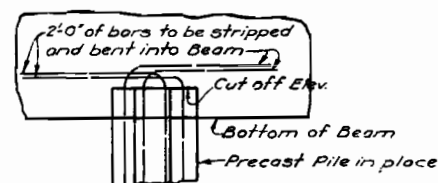


SECTION AT 4

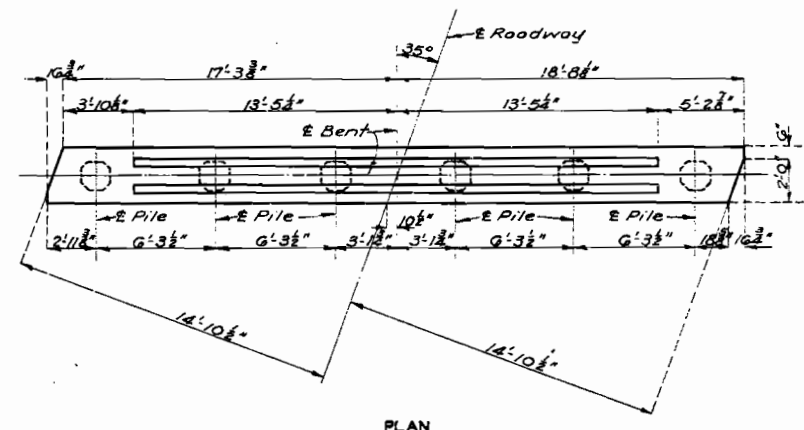


PLAN

DETAILS OF END BENTS NO. 1 & 4



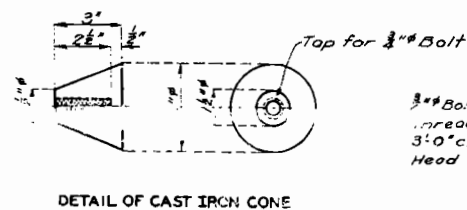
DETAIL OF PRECAST PILE IN BEAM



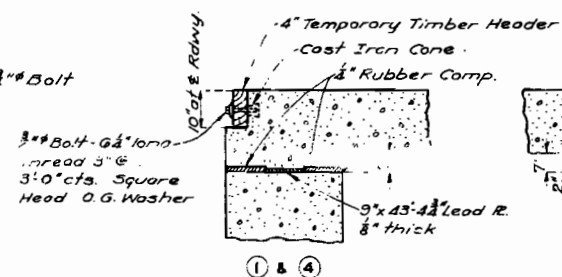
PLAN

DETAILS OF INTERIOR BENTS NO. 2 & 3

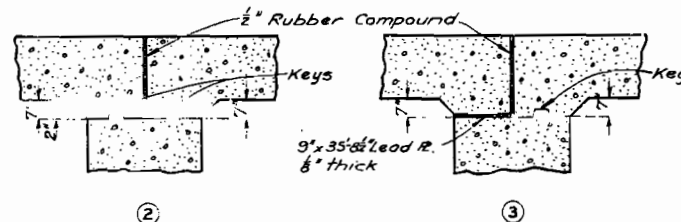
Note: An approved alternate may be substituted for cast iron cone shown.



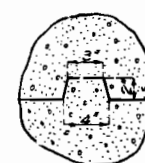
DETAIL OF CAST IRON CONE



① ② ④



②



DETAIL OF KEY

Note: Cost of Temporary Timber Headers complete in place and cost of lead plates shall be included in price bid for concrete.

DETAILS OF BEARINGS

Drawn Nov. 1940 by J.G.
Traced Nov. 1940 by G.W.
Checked Dec. 1940 by N.W.R.

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

BRIDGE OVER HART DRAINAGE DITCH

STATE ROAD FROM JUNCTION ROUTE 14 SOUTH
ABOUT 2.0 MILES NORTHWEST OF NEELYVILLE
PROJECT SN-FA58-C(3) (US67) STA. 799+69.5

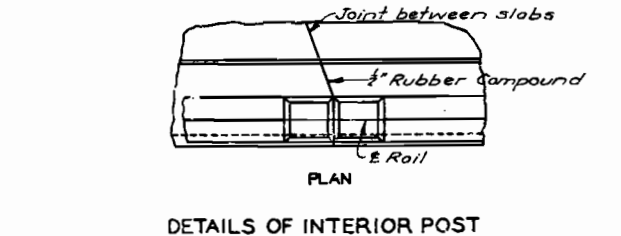
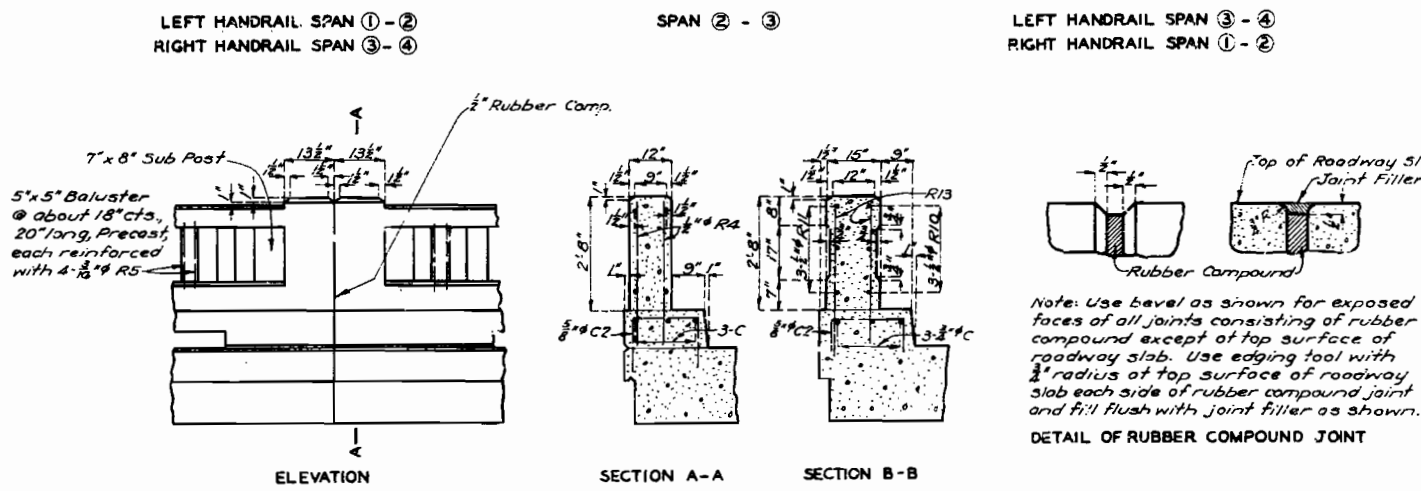
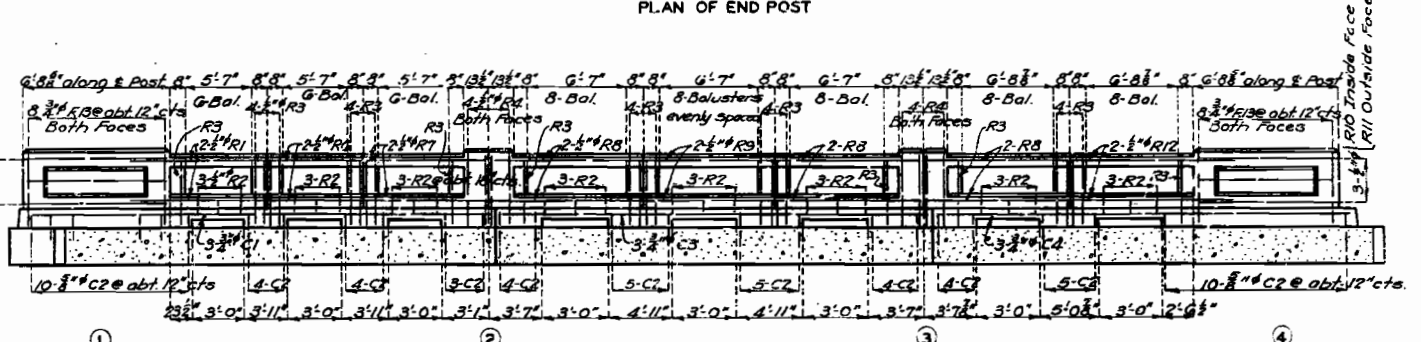
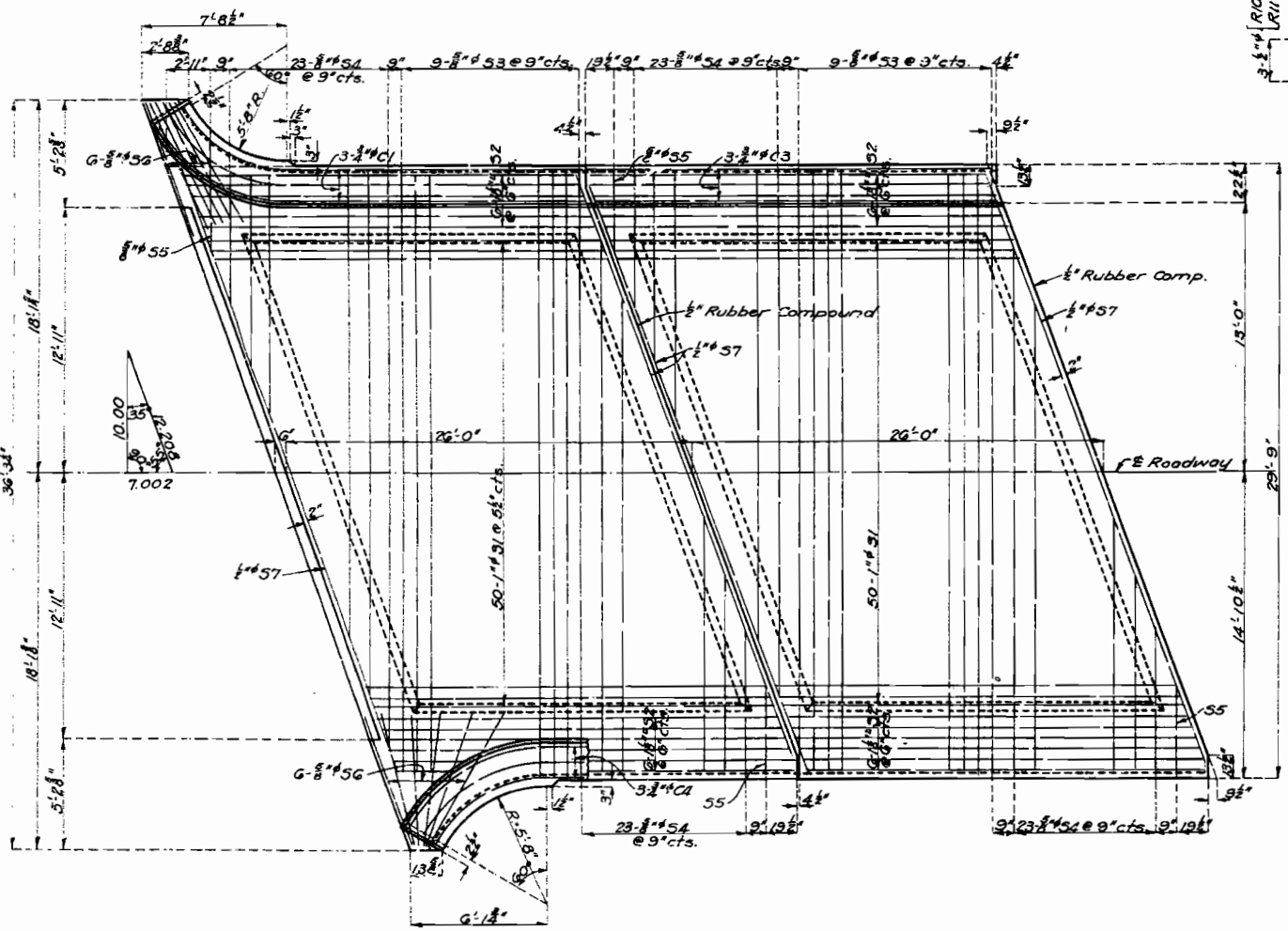
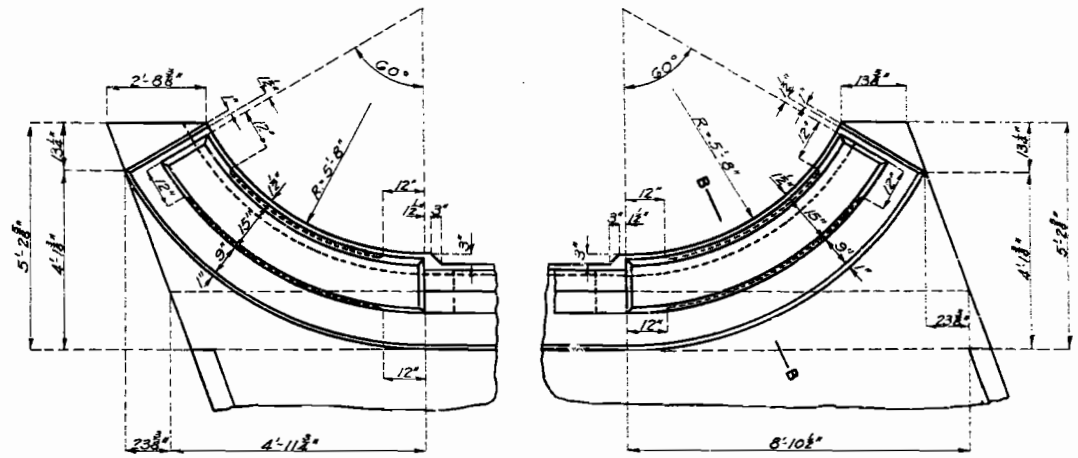
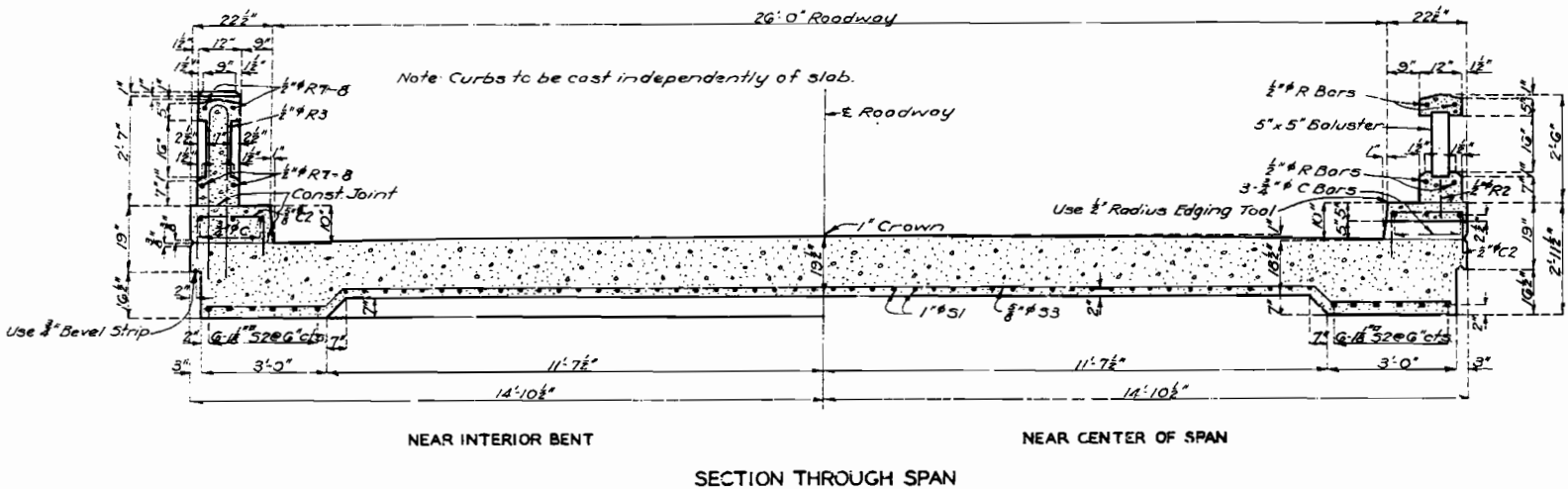
BUTLER COUNTY

Sheet No. 2 of 3

K-982

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	SN-FA58-C1(13)	19		



BRIDGE OVER HART DRAINAGE DITCH
STATE ROAD FROM JUNCTION ROUTE 14 SOUTH
ABOUT 2.0 MILES NORTHWEST OF NEELYVILLE
PROJECT SN-FA58-C1(13) (US 567) STA. 799+69.5
BUTLER COUNTY


Drawn Nov. 1940 by J.G.
Traced Nov. 1940 by G.W.
Checked Dec. 1940 by N.W.R.


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

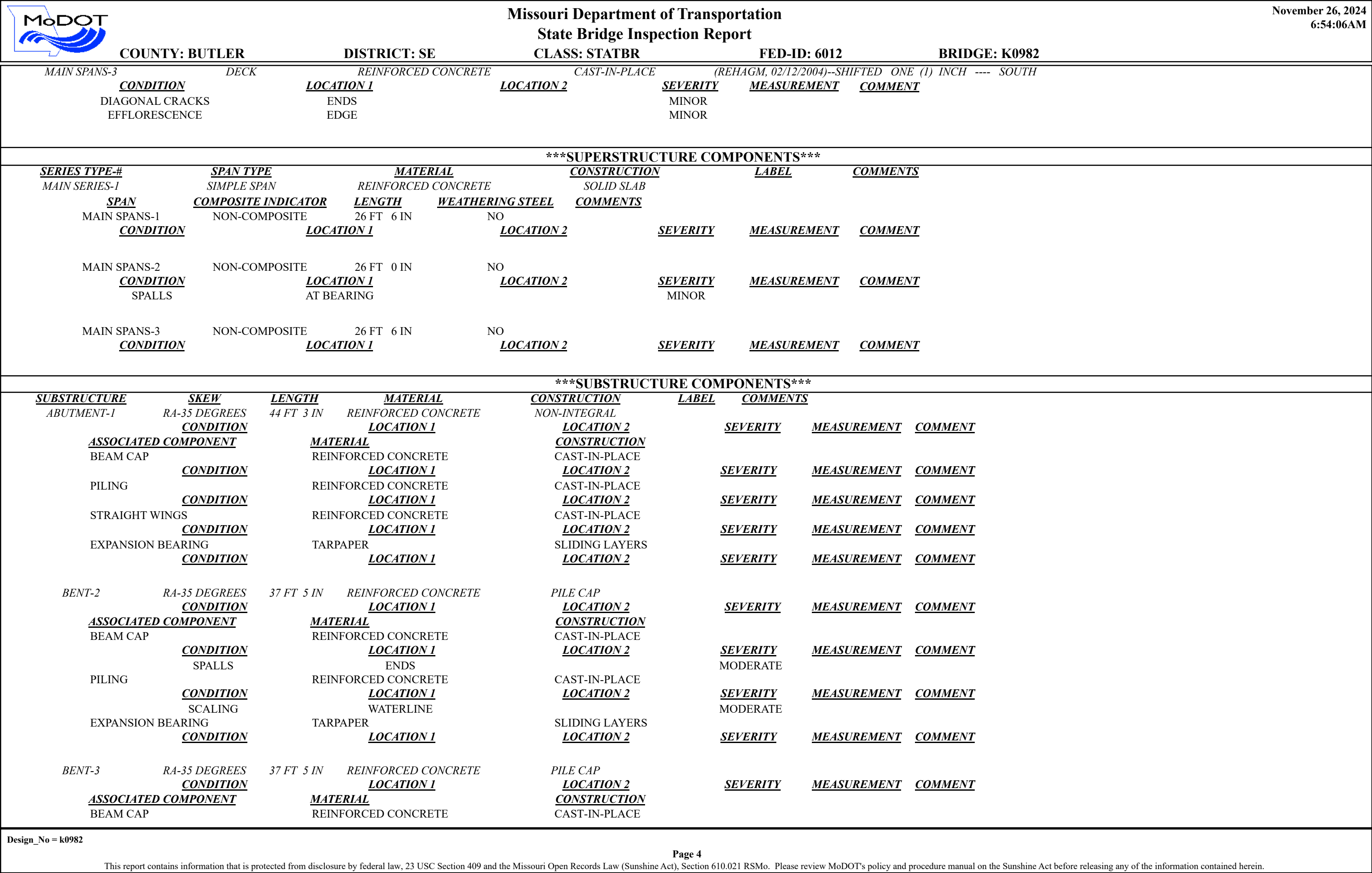
Sheet No. 3 of 3

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<div><div><div>MoDOT</div></div></div>		Missouri Department of Transportation				November 26, 2024	
		State Bridge Inspection Report				6:54:06AM	
COUNTY: BUTLER		DISTRICT: SE		CLASS: STATBR		FED-ID: 6012	
						BRIDGE: K0982	
GENERAL STRUCTURE INFORMATION						***BRIDGE INSPECTION INFORMATION***	
ROUTE: US67S FEATURE: HART DRAIN DTCH STATUS: A-OPEN LOG MILE: 190.625 DETOUR: 26.00 MILES NHS: YES BUILT: 1941 REHAB: LOCATION: S 3 T 22 R 5 E LATITUDE: 36 35 8.44 (DMS) LONGITUDE: 90 31 13.96 (DMS)		# SPANS: 3 LANES ON: 2 LANES UNDER: 0 COMPASS DIRECTION: NORTH to SOUTH DIRECTION OF TRAFFIC: 2-WAY TRAF FUNCTIONAL CLASS: RL-PRINCIPAL ARTERIAL NBI OWNER: MODOT NBI MAINTAINED: MODOT MAINTENANCE DISTRICT: SE MAINTENANCE COUNTY: BUTLER SUB AREA: 7H38		PLACE CODE: 51392 NEELY LENGTH: 79 FT 0 IN MAXIMUM SPAN: 26 FT 6 IN APPROACH ROADWAY: 24 FT 0 IN CURB TO CURB: 26 FT 0 IN OUT TO OUT: 29 FT 10 IN AADT: 7121 AADT YEAR: 2023 AADT TRUCK: 26.7% FUTURE AADT: 12462 FUTURE AADT YEAR: 2043		DATE: 02/21/2023RESPONSIBILITY: DISTRICT	
						FREQUENCY: 24CALCULATED INTERVAL**: 24	
						TEAM LEADER:INSPECTOR 2: STEVE RIGHTNOWAR	
						ELEMENT: YES	
						INSPECTOR 3:INSPECTOR 4:	
						** When calculated interval exceeds the frequency, a justification comment per BIRM is required.	
						GENERAL INSPECTION COMMENTS	
FRACTURE CRITICAL INSPECTION INFORMATION				***INDEPTH INSPECTION INFORMATION***			
DATE:		RESPONSIBILITY:		CATEGORY:		DATE:	
FREQUENCY:		CALCULATED INTERVAL**:		NBI:		RESPONSIBILITY:	
TEAM LEADER:		INSPECTOR 3:		METHOD:		CATEGORY:	
INSPECTOR 2:		INSPECTOR 4:				NBI:	
** When calculated interval exceeds the frequency, a justification comment per BIRM is required.				** When calculated interval exceeds the frequency, a justification comment per BIRM is required.			
FRACTURE CRITICAL INSPECTION COMMENTS				INDEPTH INSPECTION COMMENTS			
SPECIAL INSPECTION INFORMATION				***UNDERWATER INSPECTION INFORMATION***			
DATE: 05/09/2017		RESPONSIBILITY: DISTRICT		CATEGORY: DAMAGE POST INCIDE		DATE: 02/21/2023	
FREQUENCY: 999		CALCULATED INTERVAL**:		NBI: NO		RESPONSIBILITY: DISTRICT	
TEAM LEADER:		INSPECTOR 3: JERRY GOODMAN		METHOD: VISUAL		CATEGORY: DRY	
INSPECTOR 2: TERRY WILSON		INSPECTOR 4:				NBI: NO	
** When calculated interval exceeds the frequency, a justification comment per BIRM is required.				** When calculated interval exceeds the frequency, a justification comment per BIRM is required.			
SPECIAL INSPECTION COMMENTS				UNDERWATER INSPECTION COMMENTS			
OTHER SPECIAL INSPECTIONS				OTHER UNDERWATER INSPECTIONS			
<u>DATE</u>	<u>FREQUENCY</u>	<u>CATEGORY</u>	<u>NBI</u>	<u>CALCULATED INTERVAL</u>	<u>RESPONSIBILITY</u>	<u>METHOD</u>	<u>DATE</u>
04/23/2014	120	CHANNEL CROSS	NO		DISTRICT	WT TAPE	
		SECTIONS					
Design_No = k0982							
Page 1							
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.							

		Missouri Department of Transportation		November 26, 2024	
		State Bridge Inspection Report		6:54:06AM	
COUNTY: BUTLER		DISTRICT: SE		CLASS: STATBR	
		FED-ID: 6012		BRIDGE: K0982	
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, 09/05/2008)--(26'-26'-26') CONC SOLID SLAB SPANS					
[ITEM 58] DECK: 5-FAIR CONDITION		COMMENTS: (RACKEM, 08/11/2011)--GENERAL DETER			
RATING : 05/18/2001					
[ITEM 59] SUPER: 5-FAIR CONDITION		COMMENTS: (RACKEM, 08/11/2011)--INTEGRAL DECK, 1" + SUPERSTRUCTURE MOVEMENT.			
RATING : 05/18/2001					
[ITEM 60] SUB: 6-SATISFACTORY CONDITION		COMMENTS: (DENNIB1, 09/29/2016)--MOD SPALLING.			
RATING : 05/18/2001					
[ITEM 61] BANK/CHANNEL: 6-WIDESPREAD MINOR DAMAGE		COMMENTS:			
RATING : 09/24/2014					
[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 : 01/11/2007		COMMENTS:	
<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>	
REINFORCED CONCRETE		CURB		BOTH	
REINFORCED CONCRETE		BALUSTER		BOTH	
[ITEM 36B] TRANSITION RAILING RATING: DOESNT MEET CURRNT STND-0		RATING : 01/11/2007		COMMENTS:	
<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>	
GALVANIZED STEEL		W-BEAM		ALL	
[ITEM 36C] APPROACH RAILING RATING: MEETS CURRENT STANDARDS-1		RATING : 05/18/2001		COMMENTS:	
<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>	
GALVANIZED STEEL		W-BEAM		ALL	
Design_No = k0982					
Page 2					
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.					

		Missouri Department of Transportation				November 26, 2024	
		State Bridge Inspection Report				6:54:06AM	
COUNTY: BUTLER		DISTRICT: SE		CLASS: STATBR		FED-ID: 6012	
				BRIDGE: K0982			
[ITEM 36D] RAIL END TREATMENT RATING: MEETS CURRENT STANDARDS-1							
RATING : 01/11/2007							
COMMENTS:							
<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>		<u>COMMENTS</u>	
GALVANIZED STEEL		BREKAWAY SYSTEM		ALL			
APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below.							
<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>		<u>CONDITION*</u>	
ASPHALT		BITUMINOUS MAT		BOTH		GOOD	
DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS							
DECK PROTECTIVE COMPONENTS:							
<u>SERIES TYPE-#</u>		<u>COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>	
MAIN SERIES-1		WEARING SURFACE		ASPHALT		BITUMINOUS MAT	
<u>THICKNESS</u>		<u>YEAR APPLIED</u>		<u>MANUFACTURE</u>		<u>OVERALL CONDITION</u>	
						FAIR	
<u>COMMENT:</u>							
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
OTHER		THROUGHOUT				NOT APPLICABLE	
<u>COMMENT:</u>						(REHAGM, 02/12/2004)--CHIPS	
		<u>DECK PROTECTION</u>		<u>NOTAPPLICABLE</u>		<u>NONE</u>	
<u>COMMENT:</u>							
		<u>MEMBRANE</u>		<u>NOTAPPLICABLE</u>		<u>NONE</u>	
<u>COMMENT:</u>							
DRAINAGE COMPONENTS:							
<u>COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>	
DRAINAGE		REINFORCED CONCRETE		CURB OUTLET			
EXPANSION DEVICE COMPONENTS:							
<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>							
BANK/SLOPE PROTECTION COMPONENTS:							
<u>COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>DIRECTION</u>	
<u>COMMENTS</u>							
DECK COMPONENTS							
<u>SPAN TYPE-#</u>		<u>COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>	
MAIN SPANS-1		DECK		REINFORCED CONCRETE		CAST-IN-PLACE	
<u>COMMENTS</u>							
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
DIAGONAL CRACKS		ENDS				MINOR	
<u>MEASUREMENT</u>		<u>COMMENT</u>					
<u>SPAN TYPE-#</u>		<u>COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>	
MAIN SPANS-2		DECK		REINFORCED CONCRETE		CAST-IN-PLACE	
<u>COMMENTS</u>						(REHAGM, 02/12/2004)--SHIFTED ONE (1) INCH	
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
DETERIORATION		EDGE				MINOR	
<u>REBAR EXPOSED</u>		<u>ENDS</u>				<u>MODERATE</u>	
Design_No = k0982							
Page 3							
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.							





Missouri Department of Transportation

State Bridge Inspection Report

November 26, 2024
6:54:06AM

COUNTY: BUTLER

DISTRICT: SE

CLASS: STATBR

FED-ID: 6012

BRIDGE: K0982

PILING	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	EFFLORESCENCE		ENDS		MINOR		
	VERTICAL CRACKS		ENDS		MINOR		
EXPANSION BEARING	<u>CONDITION</u>		REINFORCED CONCRETE	CAST-IN-PLACE			
	SCALING		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
			WATERLINE		MODERATE		
	<u>CONDITION</u>		TARPAPER	SLIDING LAYERS			
			<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ABUTMENT-4	RA-35 DEGREES	44 FT 3 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>
BEAM CAP	<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
PILING	<u>CONDITION</u>		REINFORCED CONCRETE	CAST-IN-PLACE	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	VERTICAL CRACKS		<u>LOCATION 1</u>	<u>LOCATION 2</u>	MINOR		
			RANDOM				
STRAIGHT WINGS	<u>CONDITION</u>		REINFORCED CONCRETE	CAST-IN-PLACE	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
			<u>LOCATION 1</u>	<u>LOCATION 2</u>			
			REINFORCED CONCRETE	CAST-IN-PLACE	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EXPANSION BEARING	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
			TARPAPER	SLIDING LAYERS			
			<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>


*****OVER/UNDER ROUTES CLEARANCE INFORMATION*****

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

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

<u>CLEARANCES UNDER BRIDGE</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

		Missouri Department of Transportation				November 26, 2024																																										
		State Bridge Inspection Report				6:54:06AM																																										
COUNTY: BUTLER		DISTRICT: SE		CLASS: STATBR		FED-ID: 6012																																										
						BRIDGE: K0982																																										
CONDITION:		RUST AMOUNT :		STEEL TONS : 0																																												
<u>ORIGINAL PAINT</u>		<u>CONTRACT REPAINT</u>		<u>DEPARTMENT REPAINT</u>																																												
PAINT TYPE :		PAINT TYPE :		PAINT TYPE :		MANUFACTURE :																																										
NAME :		NAME :		NAME :		SURFACE PREP :																																										
PAINT COLOR :		PAINT COLOR :		PAINT COLOR :																																												
PAINT YEAR :		PAINT YEAR :		PAINT YEAR :																																												
MILS :		MILS :		MILS :																																												
REQUESTED WORK ITEMS																																																
GENERAL WORK COMMENTS:																																																
<table><tr><td>RESPONSIBILITY</td><td>LOCATION</td><td>ITEM</td><td>CATEGORY</td><td>PRIORITY</td><td>DATE</td><td colspan="2">WORK ITEM COMMENT</td></tr></table>								RESPONSIBILITY	LOCATION	ITEM	CATEGORY	PRIORITY	DATE	WORK ITEM COMMENT																																		
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UTILITY ATTACHMENTS																																																
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PROGRAM NOTES INFORMATION																																																
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2027	SE0140	0	2027	REPLACE BRIDGE																																												
COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS					***ADVANCED SIGN INFORMATION***																																											
<p>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.</p> <table><tr><td><u>Rated Item</u></td><td><u>Rating</u></td><td><u>Rating Date</u></td></tr><tr><td>[Item 67] Structure Evaluation Rating:</td><td>5-BETTER THAN MINIMUM</td><td>10/1/2014</td></tr><tr><td>[Item 68] Deck Geometry Rating:</td><td>2-BASICALLY INTOLRBLE REQ</td><td>2/23/2015</td></tr><tr><td>[Item 69] Underclearance:</td><td>N-NOT APPLICABLE</td><td>5/18/2001</td></tr><tr><td>Sufficiency Rating:</td><td>48.9%</td><td>2/7/2022</td></tr><tr><td>Deficiency:</td><td>FUNCTIONAL</td><td>3/22/2002</td></tr><tr><td>Funding Eligibility:</td><td>FULL</td><td>----</td></tr><tr><td>Estimated New Structure Length:</td><td>85 FT.</td><td>----</td></tr><tr><td>Estimated Structure Cost:</td><td>\$755,892</td><td>----</td></tr><tr><td>Estimated Total Project Cost:</td><td>\$1,133,838</td><td>----</td></tr><tr><td>Year of Cost Estimate:</td><td>2024</td><td>----</td></tr></table> <p>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.</p>					<u>Rated Item</u>	<u>Rating</u>	<u>Rating Date</u>	[Item 67] Structure Evaluation Rating:	5-BETTER THAN MINIMUM	10/1/2014	[Item 68] Deck Geometry Rating:	2-BASICALLY INTOLRBLE REQ	2/23/2015	[Item 69] Underclearance:	N-NOT APPLICABLE	5/18/2001	Sufficiency Rating:	48.9%	2/7/2022	Deficiency:	FUNCTIONAL	3/22/2002	Funding Eligibility:	FULL	----	Estimated New Structure Length:	85 FT.	----	Estimated Structure Cost:	\$755,892	----	Estimated Total Project Cost:	\$1,133,838	----	Year of Cost Estimate:	2024	----	<table><tr><td>SIGN #</td><td>SIGN TYPE</td><td>PROBLEM</td><td>PROBLEM DIRECTION</td></tr><tr><td>1</td><td></td><td></td><td></td></tr></table>			SIGN #	SIGN TYPE	PROBLEM	PROBLEM DIRECTION	1			
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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

November 26, 2024
6:57:23am

COUNTY : BUTLER BRIDGE : K0982 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 3/15/2024 SUBMITTAL YEAR : 2024

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	SE	5B	Route Signing Prefix	US
3	County	BUTLER	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	6012	5D	Route Number	00067
27	Year Built	1941	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	US 67 S
42A	Type of Service On	HIGHWAY	12	Base Hwy. Network	YES
21	Structure Maintenance	STATE HIGHWAY AGENCY	13A	LRS Inventory Route No.	0000000015
22	Structure Owner	STATE HIGHWAY AGENCY	13B	Subroute No.	00
33	Br. Median Code	NO MEDIAN	20	Toll Status	ON FREE ROAD
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP	26	Functional Classification	02-RU PRINCPL ARTRIAL-OTH
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	ON NHS
			105	Federal Lands Highway	NOT APPLICABLE
			110	Designated Nat. Network	YES
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	NEELY	29	AADT	7121
	Code	51392	30	AADT Year	2023
9	Location	S 3 T 22 N R 5 E	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	191.74 miles	109	AADT Truck Percent	27%
16	Latitude	36 D 35 M 8 S	114	Future AADT	12462
17	Longitude	90 D 31 M 14 S	115	Future AADT Year	2043
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	HART DRAIN DTCH	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	WATERWAY	19	By pass Detour Length	26.25 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	23 Ft. 11 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	35.00 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	26 Ft. 7 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	79 Ft. 1 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)	29 Ft. 10 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design_No = K0982 and Inventory_Appraisal_Submittal_Year = 2024



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

November 26, 2024
6:57:23am

COUNTY : BUTLER BRIDGE : K0982 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 3/15/2024 SUBMITTAL YEAR : 2024

LOAD RATING AND POSTING INFORMATION			MATERIAL/CONSTRUCTION INFORMATION		
31	Design Load	H 15	43A	Main Struc. Mat type	CONCRETE
41	Structure Status	OPEN NO RESTRICTIONS	43B	Main struc Constr. Type	SLAB
63	Oper. Rating Meth.	LOAD FACTOR	45	# of Main Spans	3
64	Operating Rating	48 Tons.	44A	Appr Struc. Mat type	000
65	Inventory Rating Meth	LOAD FACTOR	44B	Appr Struc. Cnstr. type	000
66	Inventory Rating	29 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 48.9 Percent			108B	Membrane Mat/Constr.	0 NONE
Deficiency Rating FUNCTIONAL			108C	Deck Protect Mat/Constr.	0 NONE
Funding Eligibility FULL			CONDITION RATING INFORMATION		
75A	Proposed Work	REPLACEMENT SUBSTND LOAD	58	Deck Cond. Rating	5
75B	Work Done By	Contract	59	Superstructure Cond. Rating	5
76	New Struc Length	108 Ft. 3 In.	60	Substructure Cond. Rating	6
94	Struc Improve Cost	\$ 756,000	61	Channel /Channel Protection Cond. Rating	6
95	Roadway Improve Cost	\$ 76,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 1,134,000	INSPECTION INFORMATION		
97	Year of Cost Estimates	2024	90	Gen. Insp Date	2 / 23
APPRAISAL RATING INFORMATION			91	Gen. Insp. Frequency	24 Months
36A	Br. Rail App. Rating	DOES NOT MEET ACCEPT STND	92A	Frac. Critical Inspection	N Months
36B	Transition Rail App. Rating	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	MEETS ACCEPTBLE STND	93B	Underwater Insp. Date	
67	Struc Eval App. Rating	5	92C	Special Inspection	N Months
68	Deck Geometry App. Rating	2	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		

Design_No = K0982 and Inventory_Appraisal_Submittal_Year = 2024