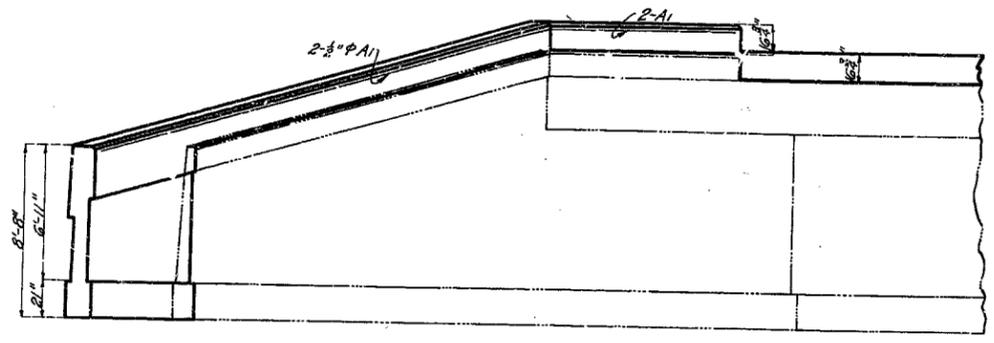
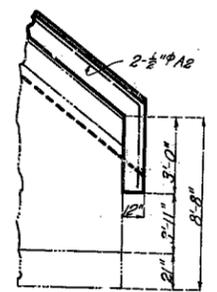


MISSOURI STATE HIGHWAY DEPARTMENT

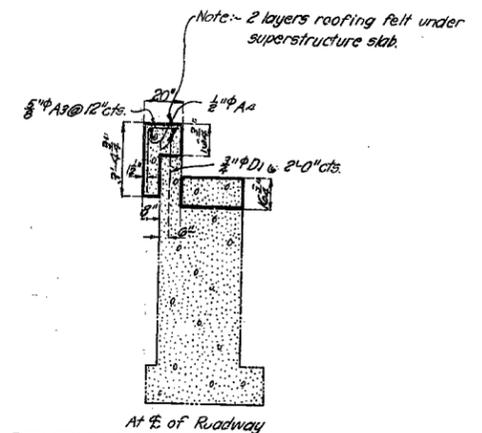
FED. ROAD DIST. NO.	STATE NO.	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	MO.	139A(5.66)	19		



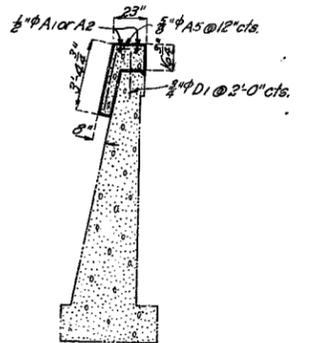
PART ELEVATION



DETAIL SHOWING OVERHANG AT END OF SHORT WING



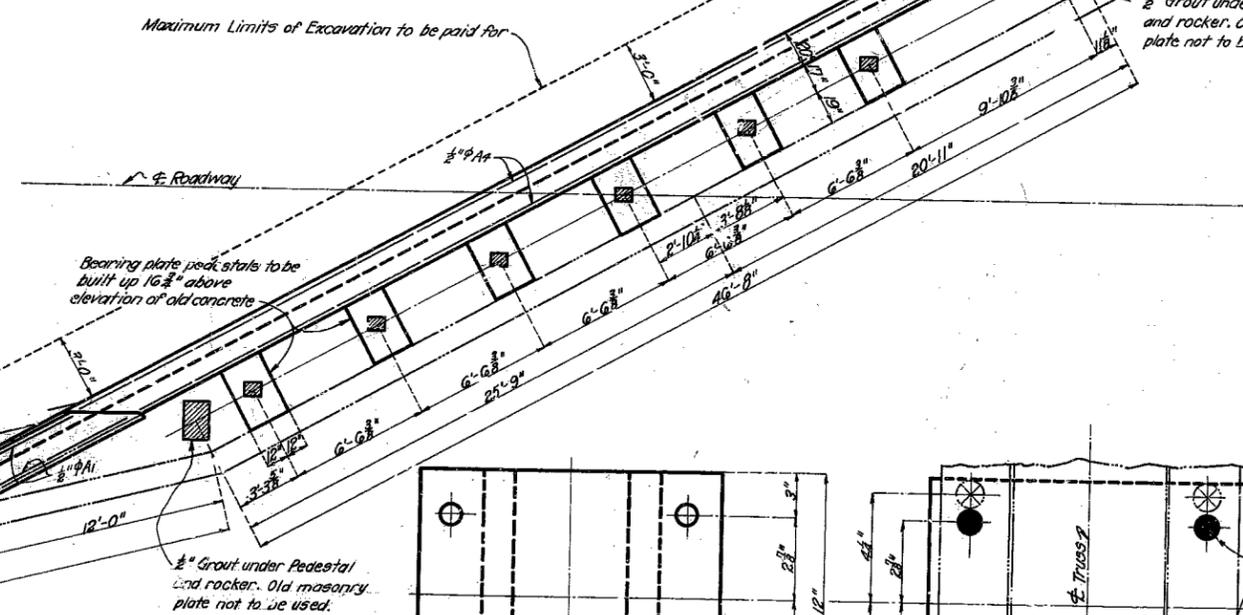
SECTION THRU ABUTMENT



SECTION THRU WING WALL

Note:-
 ——— lines indicate work in place.
 - - - - - lines indicate new work.

Notes:-
 Holes to be drilled into old concrete, filled with cement mortar grout and dowel "D" bars to be driven into grout.
 All surfaces to receive new concrete are to be roughened by bush hammering and then painted with cement wash just before placing concrete.
 Truss Span to be raised 1.4'. See Special Provisions.
 Dowels to extend at least 12" into old concrete and placed not less than 4" from edge.



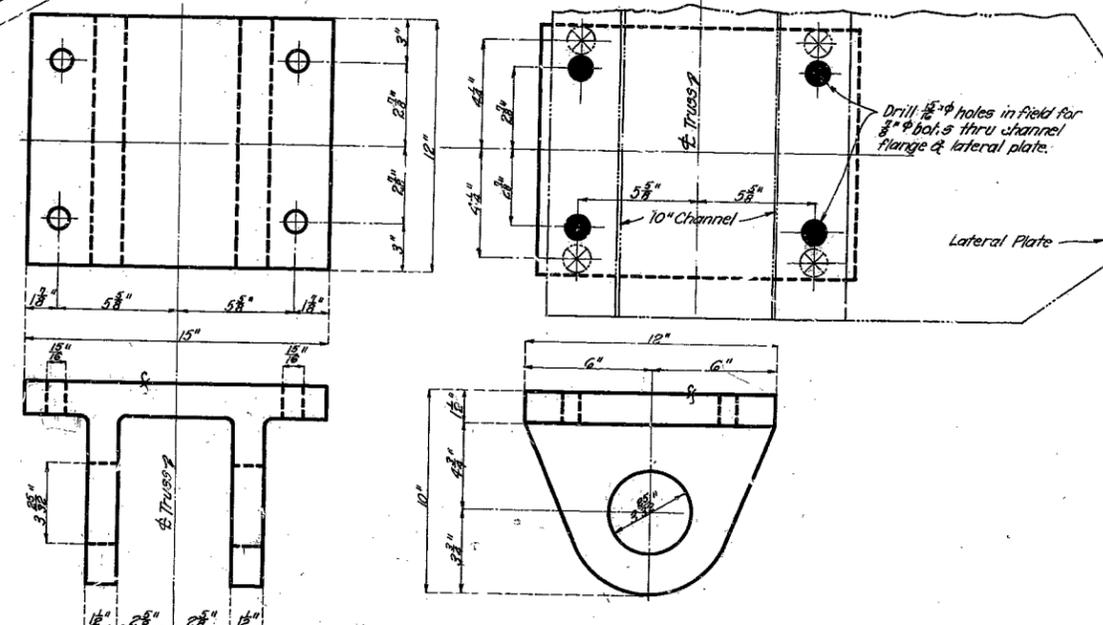
PLAN

ESTIMATED QUANTITIES		
ITEM		TOTAL
Excavation	Cu. Yds.	70
Concrete 1:3:5 mix.	Cu. Yds.	35.6
Reinforcing Steel	Lbs.	1350
Cast Steel	Lbs.	1370
Structural Steel	Lbs.	520

GENERAL NOTES:-
 All concrete to be 1:3:5 mix.
 Exposed edges to be beveled 1/2".
 Excavation in accordance with specification XLIX of Standard Specifications issued November 1, 1936 except that quantities paid for will be computed from within such limits as shown in Plan on this sheet and as noted in Special Provisions.

REINF. STEEL			
No.	Size	Length	Mark
4	1/2" φ	28'-6"	A1
4	1/2" φ	17'-0"	A2
90	3/8" φ	4'-6"	A3
8	1/2" φ	23'-3"	A4
20	3/8" φ	4'-9"	A5
94	3/8" φ	2'-0"	D1

Bars to be bent as shown in field.



DETAIL OF UPPER CASTINGS
 4 - REQUIRED

B.M. Elev. 874.23 N.&W. in Root 8" Elm 36" Lt. Sta. 281+29.

BRIDGE OVER BEAR CREEK
 STATE ROAD FROM LEBANON TO ROLLA
 ABOUT 3 MILES SOUTHEAST OF SLEEPER
 PROJECT NO. 139A (U.S. 66) STA. 284+96.

LACLEDE COUNTY
 SUBMITTED BY *W.R. Davis* DATE *4/10*
 BRIDGE ENGINEER
 APPROVED BY *T.H. Cullen* DATE
 CHIEF ENGINEER

Drawn Feb. 1930 By H.B.A. & H.E.C.
 Traced Feb. 1930 By H.E.C.
 Checked Feb. 1930 By F.C.L.

Sheet No. 1 of 2

FINISHED

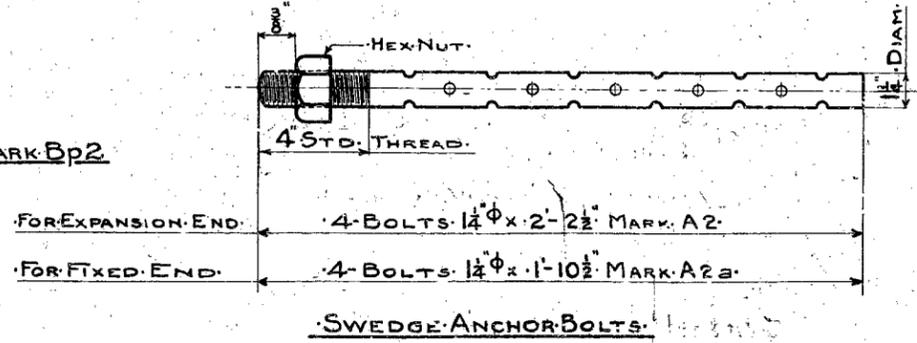
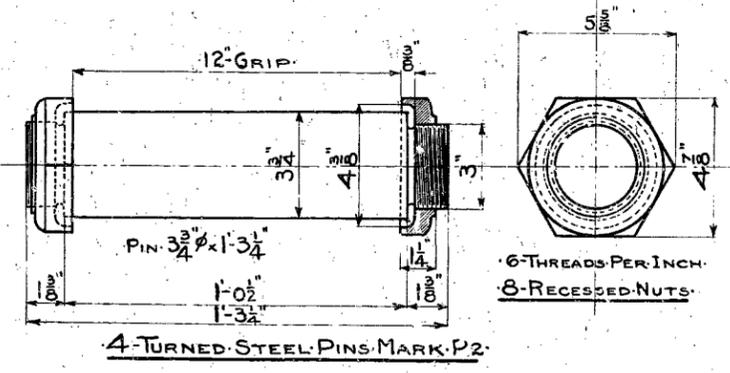
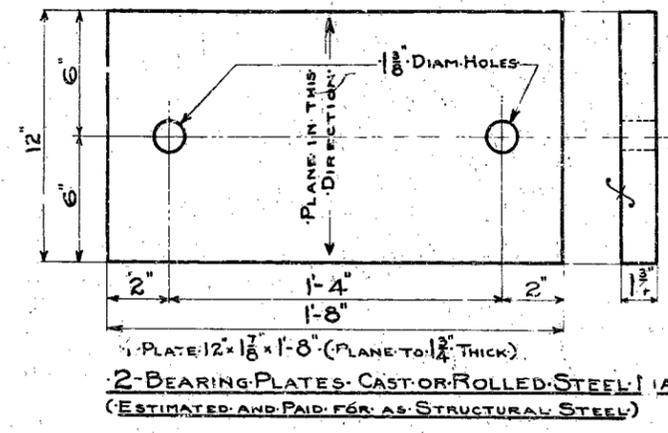
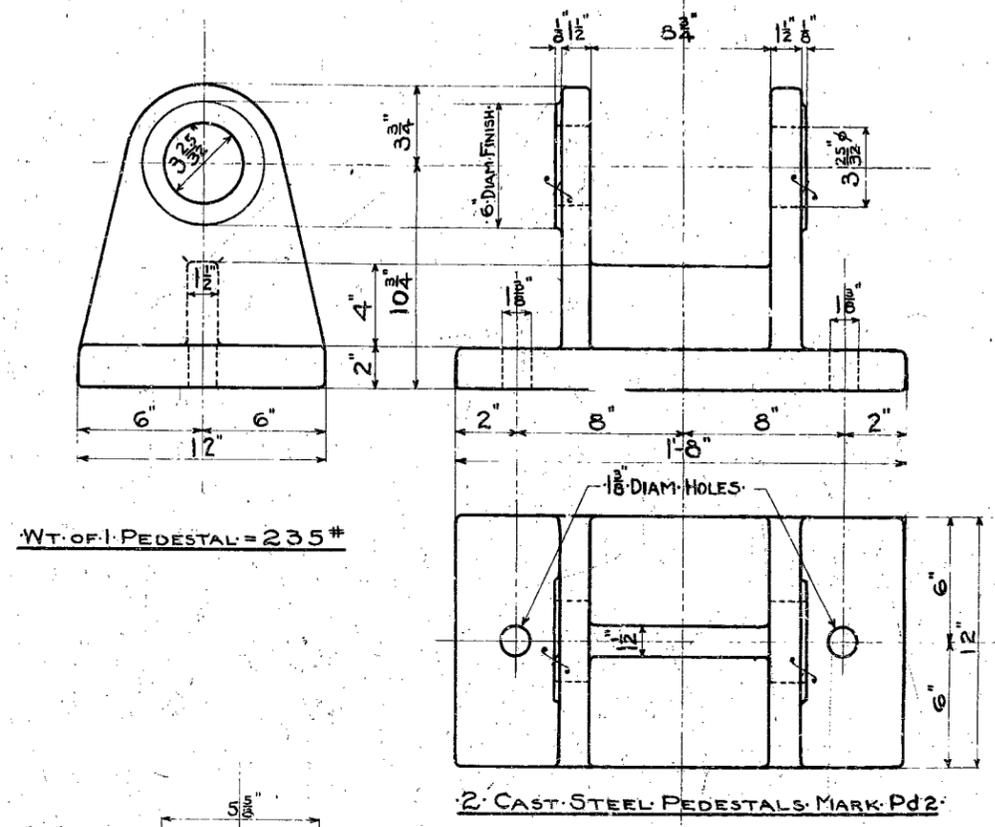
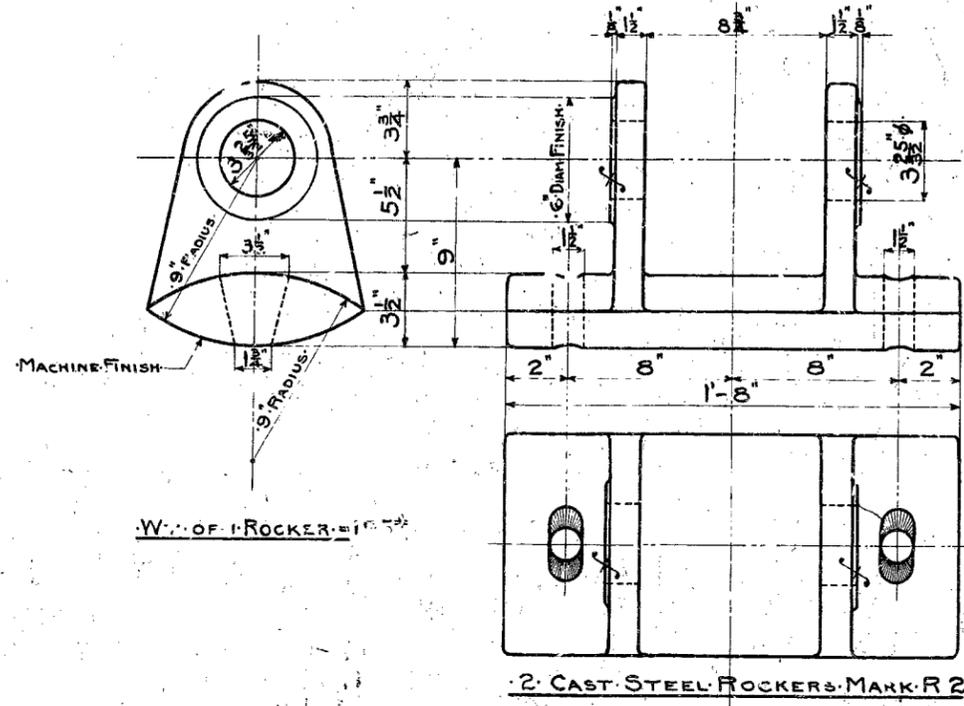
G-248R

253

REVISIONS		
DATE	BY	DESCRIPTION
4-22-1926	M.S.	LATERAL & RAIL BOLTS OMITTED.
5-8-1926	M.S.	S 8100 TO S 8008

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	Mo.	139 A (U.S. 66)			



BRIDGE OVER BEAR CREEK
 STATE ROAD FROM LEBANON TO ROLLA
 ABOUT 3 MILES SOUTHEAST OF SLEEPER
 PROJECT NO. 139 A (U.S. 66) STA. 284+96. FINISHED
 LACLEDE COUNTY
 SUBMITTED BY *M. Baker* DATE *3/4/26*
 BRIDGE ENGINEER
 APPROVED BY *T.H. Collier* DATE
 CHIEF ENGINEER

254

MADE JAN. 1926 BY M.B.S.
 TRACED APRIL 1926 BY M.B.S.
 CHECKED APRIL 1926 BY *W.D.*

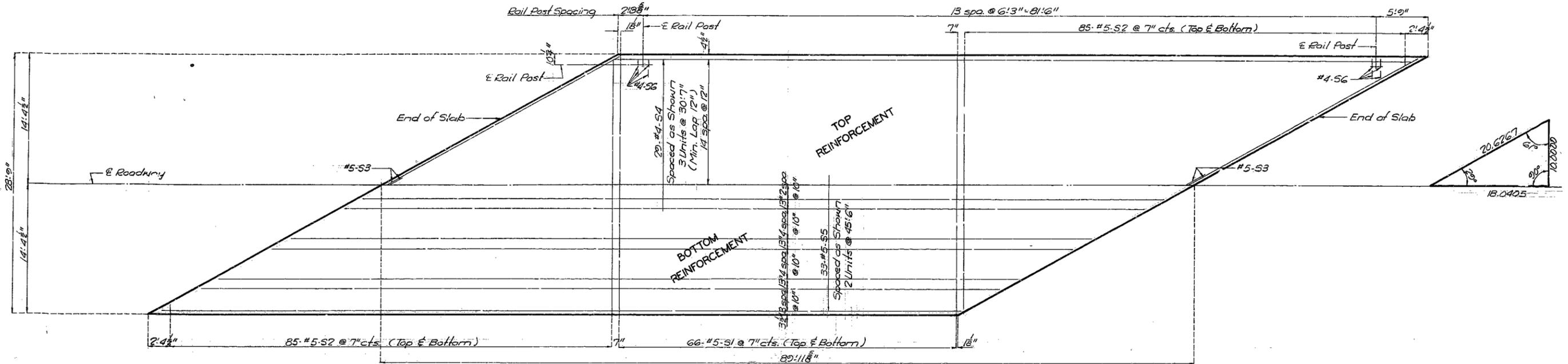
FINISHED

G-248 R

F.A.

MISSOURI STATE HIGHWAY DEPARTMENT

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



Note: All dimensions shown are horizontal.

PLAN OF SLAB SHOWING REINFORCEMENT

GENERAL NOTES

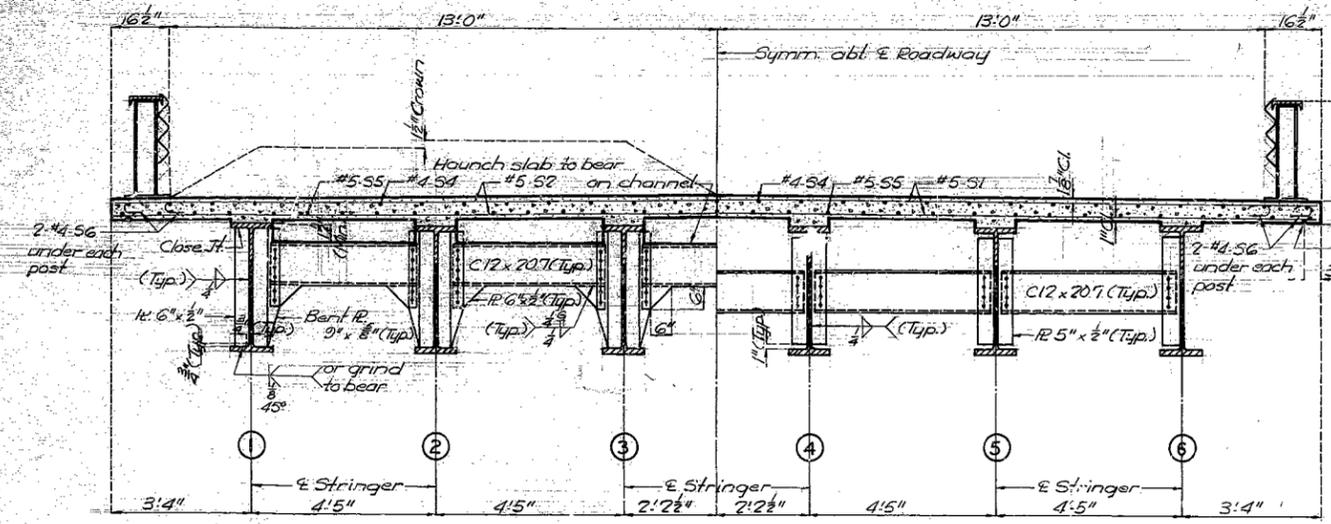
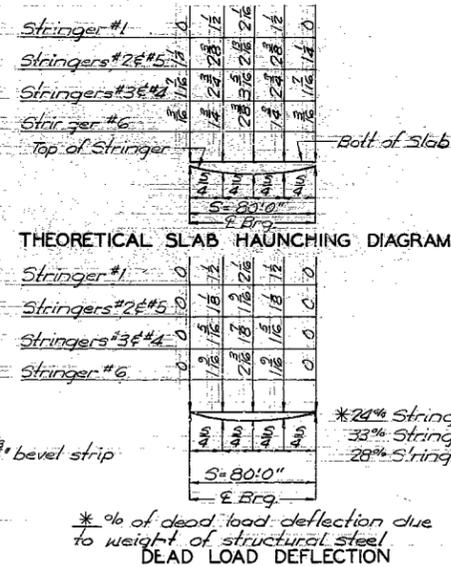
Design Specifications A. A. S. H. O. 1969
Design Loading H15-44

Class B1 Concrete Stress $f_c = 16,000$ psi
Reinforcing Steel Stress $f_s = 20,000$ psi
Structural Steel Stress $f_s = 20,000$ psi

ESTIMATED QUANTITIES

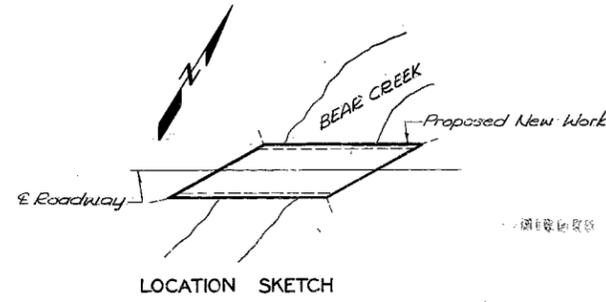
ITEM	UNIT	SUBSTR.	SUPERSTR.	TOTAL
Bridge Rail	Lin. Ft.		12	120
Class B1 Concrete	Cu. Yd.		69.0	69.0
Reinforcing Steel	Lb.	690	14,190	14,880
Fabricated Structural Carbon Steel	Lb.		92,520	92,520

Note: Weight of Fabricated Structural Carbon Steel does not include weight of bridge rail & posts.



HALF SECTION NEAR END DIAPH.
Note: Minimum clearance to reinforcing steel shall be 12" unless otherwise shown.
Use #4 high strength bolts for diaphragms.
All concrete in slab shall be Class B1.

HALF SECTION NEAR INT. DIAPH.
Note: For details of rail and post see Sheet No. 1 of 4.



REPAIRS TO
BRIDGE OVER BEAR CREEK
STATE ROAD FROM LEBANON TO ROLLA
ABOUT 3 MILES SOUTHEAST OF SLEEPER
PROJECT NO. 139A (US 66) STA. 284 + 96
LACLEDE COUNTY

DESIGNED Apr. 1972 BY Meisel & Sommerer
DETAILED APR. 1972 BY BATES
CHECKED Apr. 1972 BY Sommerer

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

Sheet No. 1 of 4

SUBMITTED BY _____ OF _____
BRIDGE ENGINEER

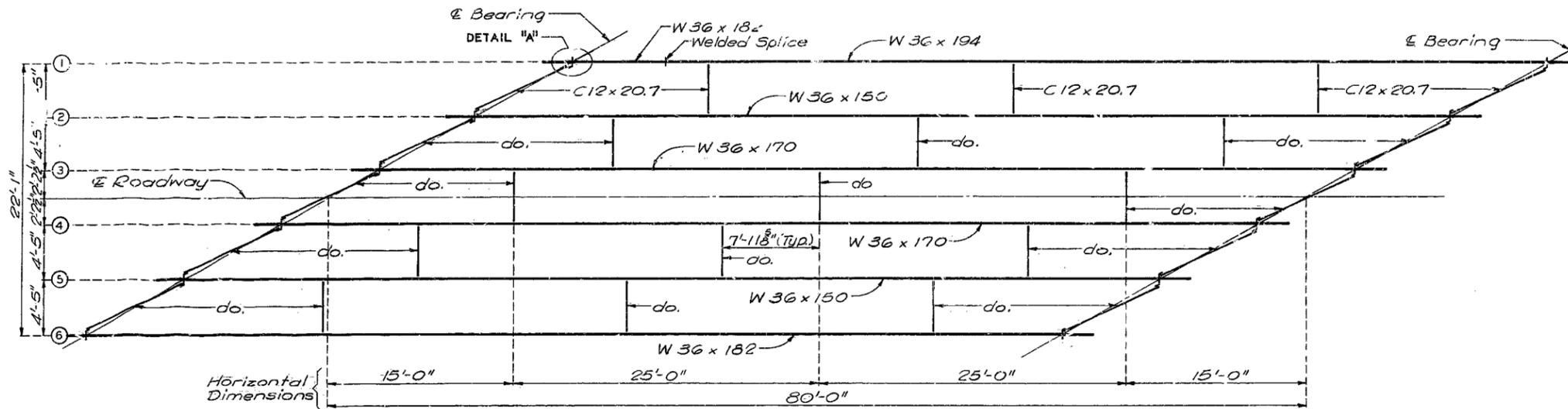
APPROVED BY _____ DATE _____
CHIEF ENGINEER

STD.
G-248R1

255

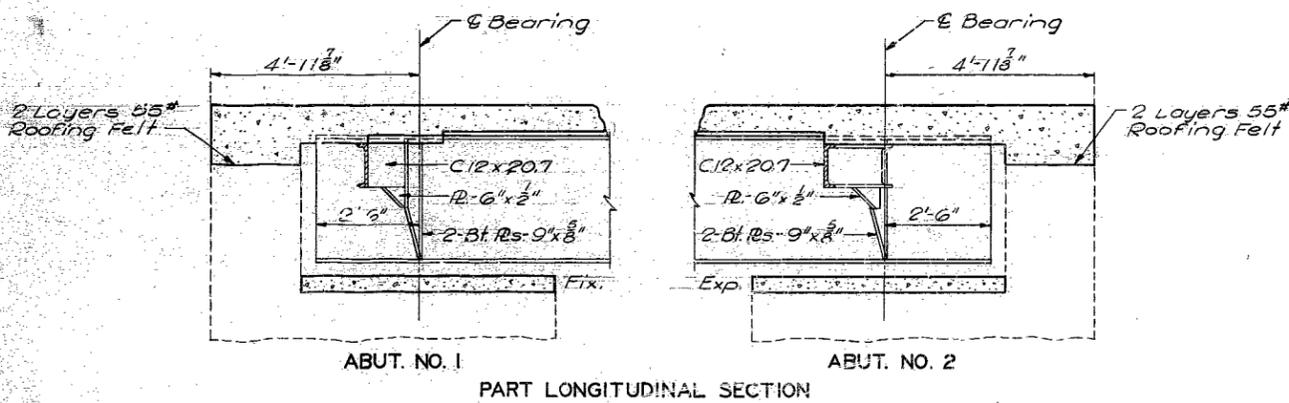
MISSOURI STATE HIGHWAY DEPARTMENT

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

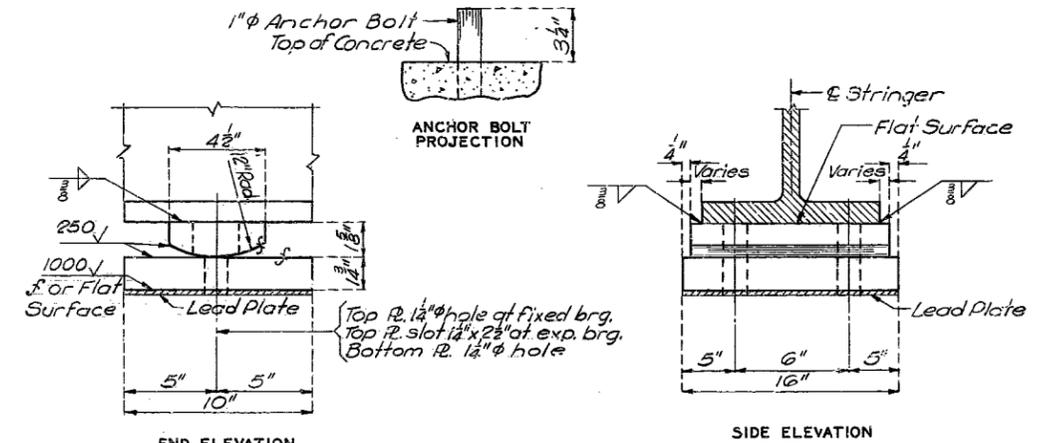


PLAN OF STRUCTURAL STEEL

BILL OF REINFORCING STEEL					
NO.	SIZE	LENGTH	MARK	LOCATION	CUTTING & BENDING SKETCHES
SUPERSTRUCTURE					
132	#5	28'-6"	S1	Slab	
170	#5	29'-1 1/2"	S2	"	
4	#5	26'-6"	S3	"	
87	#4	30'-7"	S4	"	
66	#5	45'-6"	S5	"	
112	#4	12"	S6	"	
ABUTMENTS 1 & 2					
12	#4	2'-3"	H1	Beam	
90	#4	2'-9"	H2	"	
8	#5	47'-9"	H3	"	
30	#4	5'-3"	U1	"	



PART LONGITUDINAL SECTION



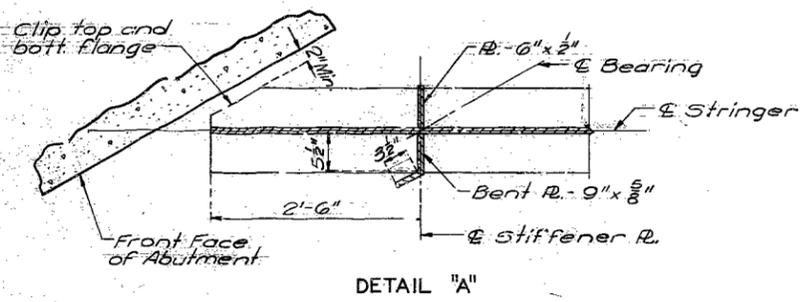
END ELEVATION

SIDE ELEVATION

Required: 6-Fixed Bearings
6-Expansion Bearings

GENERAL NOTES FOR BEARINGS
 Lead plates under bearings shall be approximately 5/8" 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 bearings shall be 1" diameter swaged bolts with no heads or nuts and shall extend 10" into concrete. Top of Anchor Bolts shall be set approximately 1/4" below top of bearing.
 *S indicates machine finish surface.

TYPE "C" BEARINGS
(Estimated Weight 1340#)



DETAIL "A"

258

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

U.I.P. EXISTING (80') WIDE FLANGE BEAM SPAN

State	Proj. No.	Sheet No.
MO		86
SEC/SUR 28	TWP 35N RGE 15W	

GENERAL NOTES:

Design Specifications:
2002 - AASHTO 17th Edition
Bridge Deck Rating = 7

Traffic:

Traffic over structure to be maintained during construction.
(See roadway plans for traffic control)

Miscellaneous:

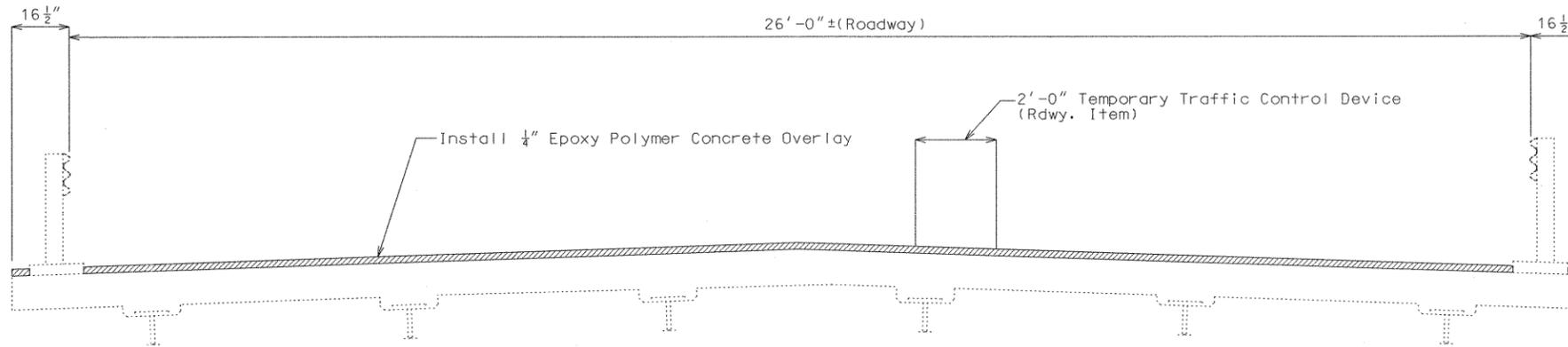
Outline of old work is indicated by dashed lines. Heavy lines indicate new work.

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

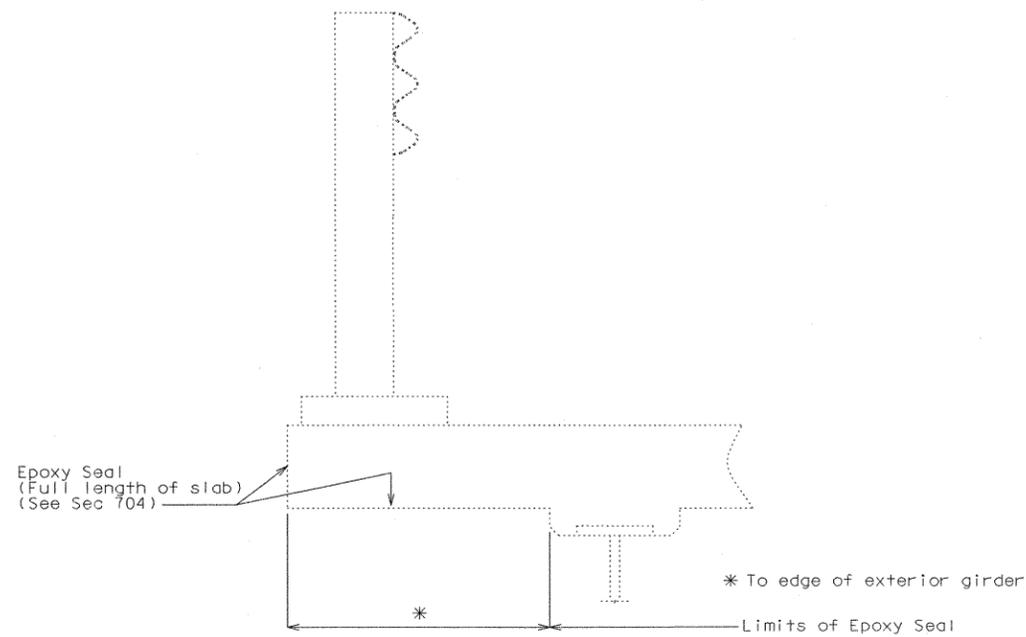
"Sec" refers to the sections in the Missouri standard and supplemental specifications unless specified otherwise.

The contractor shall exercise care to ensure spillage over joint edges is prevented and that a neat line is obtained along any terminating edge of the epoxy polymer concrete.

Epoxy Polymer Concrete Overlay shall be applied to the edge of the slab. The area measured will be longitudinally from end to end of bridge deck and transversely between the edge of slabs.



SECTION THRU SLAB



TYPICAL SECTION OF EXISTING EDGE OF SLAB

ESTIMATED QUANTITIES		
ITEM		TOTAL
Epoxy Polymer Concrete Overlay	sq. yard	287



REPAIRS TO BRIDGE OVER BEAR CREEK

STATE ROAD FROM LEBANON TO ROLLA
ABOUT 3 MILES SOUTHEAST FROM SLEEPER
PROJECT NO. STA. 284+96.00± (Match Existing)
JOB NO. J8P0822 RTE. I-44 O.R.



**Missouri Department of Transportation
State Bridge Inspection Report**

September 11, 2023
1:13:27PM

COUNTY: LACLEDE

DISTRICT: CD

CLASS: STATBR

FED-ID: 4571

BRIDGE: G0248

*****GENERAL STRUCTURE INFORMATION*****

*****BRIDGE INSPECTION INFORMATION*****

ROUTE: OR44E
FEATURE: BEAR CR
STATUS: A-OPEN
LOG MILE: 4.968
DETOUR: 2.00 MILES
NHS: NO
BUILT: 1923
REHAB: 1972
LOCATION: S 28 T 35 R 15 W
LATITUDE: 37 44 26.61 (DMS)
LONGITUDE: 92 35 10.67 (DMS)

SPANS: 1
LANES ON: 2
LANES UNDER: 0
COMPASS DIRECTION: EAST to WEST
DIRECTION OF TRAFFIC: 2-WAY TRAF
FUNCTIONAL CLASS: RL-LOCAL
NBI OWNER: MODOT
NBI MAINTAINED: MODOT
MAINTENANCE DISTRICT: CD
MAINTENANCE COUNTY: LACLEDE
SUB AREA: 7D33

PLACE CODE: 41186 LEBANON
LENGTH: 90 FT 0 IN
MAXIMUM SPAN: 80 FT 0 IN
APPROACH ROADWAY: 22 FT 0 IN
CURB TO CURB: 26 FT 0 IN
OUT TO OUT: 28 FT 10 IN
AADT: 416
AADT YEAR: 2022
AADT TRUCK: 9.6%
FUTURE AADT: 624
FUTURE AADT YEAR: 2042

DATE: 08/08/2023 RESPONSIBILITY: DISTRICT
FREQUENCY: 24 CALCULATED INTERVAL**: 24
TEAM LEADER: JOE GREEN ELEMENT: NO
INSPECTOR 2: INSPECTOR 4:
INSPECTOR 3:
** 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:
FREQUENCY: CALCULATED INTERVAL**:
TEAM LEADER: INSPECTOR 3: NBI:
INSPECTOR 2: INSPECTOR 4: METHOD:

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

DATE: RESPONSIBILITY: CATEGORY:
FREQUENCY: CALCULATED INTERVAL**:
TEAM LEADER: INSPECTOR 3: NBI:
INSPECTOR 2: INSPECTOR 4: METHOD:

** 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: 01/23/2018 RESPONSIBILITY: BRIDGEDIV CATEGORY: QUALITY ASSURANCE
FREQUENCY: 999 CALCULATED INTERVAL**:
TEAM LEADER: JESSE ELSEMAN INSPECTOR 3: NBI: NO
INSPECTOR 2: INSPECTOR 4: METHOD:

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

DATE: 08/08/2023 RESPONSIBILITY: DISTRICT CATEGORY: DRY
FREQUENCY: 60 CALCULATED INTERVAL**:
TEAM LEADER: JOE GREEN INSPECTOR 3: NBI: NO
INSPECTOR 2: INSPECTOR 4: METHOD: VISUAL

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

SPECIAL INSPECTION COMMENTS

UNDERWATER INSPECTION COMMENTS

(ELSEMJ, 01/24/2018)--USING THE FIELD VERIFICATION MODEL (FVM) - AS A THRID PARTY INSPECTOR, I TOOK THE PREVIOUS INSP REPORT INTO THE FIELD AND VERIFIED THOUROUGHNESS OF REPORT WITH ASSIGNED CONDITION AND APPRAISAL RATINGS

(MEYERM3, 05/11/2020)--NOT DRY 2019, NEEDS WADERS
(TRAMPA, 10/25/2017)--NOT DRY '17;

OTHER SPECIAL INSPECTIONS

OTHER UNDERWATER INSPECTIONS

DATE	FREQUENCY	CATEGORY	NBI	CALCULATED INTERVAL	RESPONSIBILITY	METHOD
08/10/2015	120	CHANNEL CROSS SECTIONS	NO		DISTRICT	WT TAPE

DATE	FREQUENCY	CATEGORY	NBI	CALCULATED INTERVAL	RESPONSIBILITY	METHOD



**Missouri Department of Transportation
State Bridge Inspection Report**

September 11, 2023
1:13:27PM

COUNTY: LACLEDE

DISTRICT: CD

CLASS: STATBR

FED-ID: 4571

BRIDGE: G0248

STRUCTURE POSTING

APPROVED CATEGORY: S-1 NO POSTING REQUIRED
 Ton 1: Ton 2: Ton 3:
 COMMENTS: (KLIETL2, 02/28/2022)--LOAD POSTING LETTER,2/25/2022,MODOT.

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, 08/07/2008)--(80') SMP WF GDR SPAN

[ITEM 58] DECK: 7-GOOD CONDITION COMMENTS: (RACKEM, 10/27/2011)--FEW TRANS CRACK
 RATING : 05/18/2001

[ITEM 59] SUPER: 5-FAIR CONDITION COMMENTS: (STEGEC, 11/27/2017)--LIGHT RUSTING THRU-OUT IN 2017
 RATING : 08/09/2023 (GREENA2, 08/09/2023)--INITIAL SECTION LOSS IN WEBS OF EXTERIOR GIRDERS AT GUARDRAIL CONNECTIONS.

[ITEM 60] SUB: 4-POOR CONDITION COMMENTS: (GREENA2, 08/04/2021)--OPEN CRACK, LEACH
 RATING : 08/09/2023 (GREENA2, 08/09/2023)--WEST ABUT SHOIVING EAST. UNEQUAL TRANSFER OF LOAD AT BEARINGS.

[ITEM 61] BANK/CHANNEL: 6-WIDESPREAD MINOR DAMAGE COMMENTS: (GREENA2, 08/09/2023)--LOCAL SCOUR @ W ABUT - MINOR UNDERMINE OF FOOTINGS AT W. ABUT.
 RATING : 01/06/2004

[ITEM 113] SCOUR: 8-STABLE FOR CALCULATED COMMENTS:
 RATING : 05/18/2001
 EVALUATION TYPE :

[ITEM 71] WATERWAY ADEQUACY: SIGNIFICANT DELAY APPRCH 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: MEETS CURRENT STANDARDS-1 RATING : 01/10/2008 COMMENTS:

<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>
GALVANIZED STEEL	THRIE BEAM	BOTH	
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>
OTHER	RANDOM		NOT APPLICABLE

 (MEYERM3, 02/20/2020)--PACK RUST IN BRACKETS

[ITEM 36B] TRANSITION RAILING RATING: DOESNT MEET CURRNT STND-0 RATING : 10/17/2013 COMMENTS:

<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>
GALVANIZED STEEL	THRIE BEAM TO W-BEAM	ALL	

[ITEM 36C] APPROACH RAILING RATING: MEETS CURRENT STANDARDS-1 RATING : 01/10/2008 COMMENTS:

<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>
GALVANIZED STEEL	W-BEAM	ALL	

[ITEM 36D] RAIL END TREATMENT RATING: MEETS CURRENT STANDARDS-1 RATING : 01/10/2008 COMMENTS:



**Missouri Department of Transportation
State Bridge Inspection Report**

September 11, 2023
1:13:27PM

COUNTY: LACLEDE

DISTRICT: CD

CLASS: STATBR

FED-ID: 4571

BRIDGE: G0248

<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>	<u>COMMENTS</u>
ASPHALT/CONCRETE	BITUMINOUS MAT/SLAB	BOTH	GOOD	(OTTINM, 10/17/2013)--RUTTED AND SAGGING.
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>
OTHER	ENDS		NOT APPLICABLE	(ELSEMJ, 01/24/2018)--ASPHALT WEDGES ON BOTH ENDS

*****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>	<u>THICKNESS</u>	<u>YEAR APPLIED</u>	<u>MANUFACTURE</u>	<u>OVERALL CONDITION</u>
MAIN SERIES-1	WEARING SURFACE	ASPHALT	BITUMINOUS SEAL COAT	.65 IN			GOOD
<u>COMMENT:</u>							
	DECK PROTECTION	NOTAPPLICABLE	NONE				
<u>COMMENT:</u>							
	MEMBRANE	NOTAPPLICABLE	NONE				
<u>COMMENT:</u>							
	SECONDARY DECK PROTECTION	LIQUID SEALANT	INTERNALLY SEALED		2021	PAVON INDECK	
<u>COMMENT:</u>							

DRAINAGE COMPONENTS:

<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>
------------------	-----------------	---------------------	------------------	-----------------

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>
ABUTMENT-1		CLOSED EXPANSION JOINT	OIL	FILLED JOINT				
<u>COMMENT:</u>								
ABUTMENT-2		CLOSED EXPANSION JOINT	OIL	FILLED JOINT				
<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>	<u>COMMENTS</u>
MAIN SPANS-1	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>
	SPALLS	DECK HAUNCH		FEW
	TRANSVERSE CRACKS	THROUGHOUT		FEW



**Missouri Department of Transportation
State Bridge Inspection Report**

September 11, 2023
1:13:27PM

COUNTY: LACLEDE

DISTRICT: CD

CLASS: STATBR

FED-ID: 4571

BRIDGE: G0248

*****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	SIMPLE SPAN	STEEL	WIDE FLANGE GIRDERS		(BOWDEJI, 11/25/2003)--INTERMITTENT WELDS ON STIFFENERS IN TENSION ZONE @ MID-SPAN
<u>SPAN</u>	<u>COMPOSITE INDICATOR</u>	<u>LENGTH</u>	<u>WEATHERING STEEL</u>	<u>COMMENTS</u>	
MAIN SPANS-1	NON-COMPOSITE	80 FT 0 IN	NO		
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
RUST SECTION LOSS	GIRDER ENDS EXTERIOR GIRDERS		LIGHT INITIAL		(GREENA2, 08/09/2023)--EXT. GIRDER WEBS AT GUARDRAIL CONNECTIONS.

*****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-61 DEGREES	48 FT 0 IN	REINFORCED CONCRETE	NON-INTEGRAL		
<u>ASSOCIATED COMPONENT</u>	<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			
	LEACHING	THROUGHOUT		MINOR		
	SCALING	THROUGHOUT		LIGHT		
	SEALED	BEAM CAP		ASPHALTICBASE		
VERTICAL CRACKS		THROUGHOUT		OPEN		
FLARED WINGS		REINFORCED CONCRETE	CAST-IN-PLACE			
	VERTICAL CRACKS	THROUGHOUT		MINOR		
FOOTING		REINFORCED CONCRETE	SPREAD			
	VERTICAL CRACKS	THROUGHOUT		MINOR		
BACKWALL		REINFORCED CONCRETE	CAST-IN-PLACE			
	DELAMINATION	RANDOM		MINOR		
	LEACHING	THROUGHOUT		MINOR		
VERTICAL CRACKS		THROUGHOUT		MINOR		
FIXED BEARING		STEEL	CURVED PLATE(ROTATING)			
	LOOSE CONNECTIONS	THROUGHOUT		SEVERAL		(GREENA2, 08/09/2023)--BEARINGS PARTIALLY SHOVED OFF MASONARY PLATE.
	OTHER	THROUGHOUT		NOT APPLICABLE		(ELSEMJ, 01/24/2018)--SHOVING TO THE NORTH 1 1/2 INCHES (GREENA2, 08/09/2023)--ALL BEARINGS SHOVING NORTH AND EAST IN 2023. SEE PHOTOS.
ABUTMENT-2	LA-61 DEGREES	48 FT 0 IN	REINFORCED CONCRETE	NON-INTEGRAL		
<u>ASSOCIATED COMPONENT</u>	<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			
	LEACHING	THROUGHOUT		MINOR		
	OTHER	THROUGHOUT		NOT APPLICABLE		(GREENA2, 08/09/2023)--ABUT 2 SHOVING AND LEANING INWARD. SEE PHOTOS.
	SCALING	THROUGHOUT		LIGHT		
	SEALED	BEAM CAP		ASPHALTICBASE		
VERTICAL CRACKS		THROUGHOUT		OPEN		
FLARED WINGS		REINFORCED CONCRETE	CAST-IN-PLACE			
	DIAGONAL CRACKS	RANDOM		OPEN		(GREENA2, 08/09/2023)--APPROX 3" AT BOTTOM AND 1 3/8" AT TOP.
	HORIZONTAL CRACKS	RANDOM		FEW		



**Missouri Department of Transportation
State Bridge Inspection Report**

September 11, 2023
1:13:27PM

COUNTY: LACLEDE

DISTRICT: CD

CLASS: STATBR

FED-ID: 4571

BRIDGE: G0248

FOOTING		REINFORCED CONCRETE	SPREAD			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	EXPOSED	BOTTOM		FULL		
	SCALING	THROUGHOUT		MODERATE		
	UNDERMINING	BOTTOM		1 FT		
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>
	DELAMINATION	THROUGHOUT		MINOR		
	SPALLS	THROUGHOUT		MINOR		
	VERTICAL CRACKS	THROUGHOUT		MODERATE		(HAMELD1, 01/10/2008)--OPEN 1/2"
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>
	PACK RUST	THROUGHOUT		HEAVY		(GREENA2, 08/09/2023)--LIFTING 1/2".

*****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>
----------------------------------	--------------	------------------	-------------	----------------

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

<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 : 45
<u>ORIGINAL PAINT</u>	<u>CONTRACT REPAINT</u>	<u>DEPARTMENT REPAINT</u>
PAIN TYPE :	PAIN TYPE :	PAIN TYPE : C SYSTEM
NAME :	NAME :	NAME : INORGANIC ZINC/VINYL
PAIN COLOR :	PAIN COLOR :	PAIN COLOR : ALUMINUM
PAIN YEAR :	PAIN YEAR :	PAIN YEAR : 1995
MILS :	MILS :	MILS : 5
		MANUFACTURE :
		SURFACE PREP :

*****REQUESTED WORK ITEMS*****

Design_No = g0248



**Missouri Department of Transportation
State Bridge Inspection Report**

September 11, 2023
1:13:27PM

COUNTY: LACLEDE

DISTRICT: CD

CLASS: STATBR

FED-ID: 4571

BRIDGE: G0248

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>
DISTRICT ROUTINE	SUPER-GIRDERS	REMOVE DRIFT	CHANNEL	3	10/25/2017	
DISTRICT SPECIAL	ROADWAY SURFACE	SEAL DECK WITH IN DECK	DECK	3	08/04/2024	

*****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>
-------------	------------------	------------------	-----------------	--------------	----------------

*****COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS*****

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.

<u>Rated Item</u>	<u>Rating</u>	<u>Rating Date</u>
[Item 67] Structure Evaluation Rating:	4-MEETS MINIMUM TOLERABLE	8/14/2023
[Item 68] Deck Geometry Rating:	5-BETTER THAN MINIMUM	3/21/2002
[Item 69] Underclearance:	N-NOT APPLICABLE	5/18/2001
Sufficiency Rating:	54.8%	8/14/2023
Deficiency:	STRUCTURAL	8/14/2023
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.

*****ADVANCED SIGN INFORMATION*****

<u>SIGN #</u>	<u>SIGN TYPE</u>	<u>PROBLEM</u>	<u>PROBLEM DIRECTION</u>
1			

*****OUTFALL INSPECTION INFORMATION*****

# OUTFALLS:	INSPECTOR:
STATUS:	DATE:
NOTES:	



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

September 11, 2023
1:12:08pm

COUNTY : LACLEDE	BRIDGE : G0248 3	REVIEW STATUS : APPROVED	NBI STATUS : P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT		RUN DATE : 3/2/2023	SUBMITTAL YEAR : 2022

GENERAL STRUCTURE INFORMATION	ROUTE DESIGNATION INFORMATION
1 State MISSOURI	5A Record Type ROUTE CARRIED 'ON' STRUCT
2 District CD	5B Route Signing Prefix MO
3 County LACLEDE	5C Designated Level of Service SERVICE AND/OR UNCLASS
8 Federal ID No. 4571	5D Route Number 00044
27 Year Built 1923	5E Directional Suffix NOT APPLICABLE
106 Year Reconstructed 1972	7 Facility Carried OR 44 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 09-RURAL LOCAL
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 LEBANON	29 AADT 416
Code 41186	30 AADT Year 2022
9 Location S 28 T 35 N R 15 W	102 Direction of Traffic 2-WAY TRAFFIC
11 Milepoint 4.96 miles	109 AADT Truck Percent 10%
16 Latitude 37 D 44 M 27 S	114 Future AADT 624
17 Longitude 92 D 35 M 11 S	115 Future AADT Year 2042

UNDERRECORD INFORMATION	STRUCTURE GEOMETRIC INFORMATION
6 Features Intersected BEAR CR	10 Inventory Rte. Vert. Clear 99 Ft. 99 In.
42B Type of Service Under WATERWAY	19 By pass Detour Length 1.86 miles
28B Lanes Under Structure 00	32 Approach Roadway Width 21 Ft. 12 In.
54A Vert. Clearance Ref. N/A	34 Skew 61.00 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 80 Ft. 1 In.
56 Left Lat Clearance 0 Ft. 0 In.	49 Structure Length 89 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 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.

Design_No = g0248



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

September 11, 2023
1:12:08pm

COUNTY : LACLEDE	BRIDGE : G0248 3	REVIEW STATUS : APPROVED	NBI STATUS : P
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT		RUN DATE : 3/2/2023	SUBMITTAL YEAR : 2022

LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION																																																						
<table border="0" style="width:100%"> <tr><td>31</td><td>Design Load</td><td>H 15</td></tr> <tr><td>41</td><td>Structure Status</td><td>A - OPEN NO RESTRICTIONS</td></tr> <tr><td>63</td><td>Oper. Rating Meth.</td><td>LOAD FACTOR</td></tr> <tr><td>64</td><td>Operating Rating</td><td>41 Tons.</td></tr> <tr><td>65</td><td>Inventory Rating Meth</td><td>LOAD FACTOR</td></tr> <tr><td>66</td><td>Inventory Rating</td><td>24 Tons.</td></tr> <tr><td>70</td><td>Bridge Posting Code</td><td>=>LEGAL LOADS</td></tr> </table>	31	Design Load	H 15	41	Structure Status	A - OPEN NO RESTRICTIONS	63	Oper. Rating Meth.	LOAD FACTOR	64	Operating Rating	41 Tons.	65	Inventory Rating Meth	LOAD FACTOR	66	Inventory Rating	24 Tons.	70	Bridge Posting Code	=>LEGAL LOADS	<table border="0" style="width:100%"> <tr><td>43A</td><td>Main Struc. Mat type</td><td>STEEL</td></tr> <tr><td>43B</td><td>Main struc Constr. Type</td><td>STRINGER/MULTIBEAM - GRD</td></tr> <tr><td>45</td><td># of Main Spans</td><td>1</td></tr> <tr><td>44A</td><td>Appr Struc. Mat type</td><td></td></tr> <tr><td>44B</td><td>Appr Struc. Cnstr. type</td><td></td></tr> <tr><td>46</td><td># of Approach Span</td><td>0</td></tr> <tr><td>107</td><td>Deck Mat/Constr.</td><td>1 CONCRETE CIP</td></tr> <tr><td>108A</td><td>Wear Surf Mat/Constr.</td><td>6 BITUMINOUS</td></tr> <tr><td>108B</td><td>Membrane Mat/Constr.</td><td>0 NONE</td></tr> <tr><td>108C</td><td>Deck Protect Mat/Constr.</td><td>0 NONE</td></tr> </table>	43A	Main Struc. Mat type	STEEL	43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD	45	# of Main Spans	1	44A	Appr Struc. Mat type		44B	Appr Struc. Cnstr. type		46	# of Approach Span	0	107	Deck Mat/Constr.	1 CONCRETE CIP	108A	Wear Surf Mat/Constr.	6 BITUMINOUS	108B	Membrane Mat/Constr.	0 NONE	108C	Deck Protect Mat/Constr.	0 NONE			
31	Design Load	H 15																																																					
41	Structure Status	A - OPEN NO RESTRICTIONS																																																					
63	Oper. Rating Meth.	LOAD FACTOR																																																					
64	Operating Rating	41 Tons.																																																					
65	Inventory Rating Meth	LOAD FACTOR																																																					
66	Inventory Rating	24 Tons.																																																					
70	Bridge Posting Code	=>LEGAL LOADS																																																					
43A	Main Struc. Mat type	STEEL																																																					
43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD																																																					
45	# of Main Spans	1																																																					
44A	Appr Struc. Mat type																																																						
44B	Appr Struc. Cnstr. type																																																						
46	# of Approach Span	0																																																					
107	Deck Mat/Constr.	1 CONCRETE CIP																																																					
108A	Wear Surf Mat/Constr.	6 BITUMINOUS																																																					
108B	Membrane Mat/Constr.	0 NONE																																																					
108C	Deck Protect Mat/Constr.	0 NONE																																																					
PROPOSED IMPROVEMENT INFORMATION	CONDITION RATING INFORMATION																																																						
<table border="0" style="width:100%"> <tr><td>Sufficiency Rating</td><td>70.9</td><td>Percent</td></tr> <tr><td>Deficiency Rating</td><td colspan="2">NOT DEFICIENT</td></tr> <tr><td>Funding Eligibility</td><td colspan="2"></td></tr> <tr><td>75A</td><td>Proposed Work</td><td></td></tr> <tr><td>75B</td><td>Work Done By</td><td></td></tr> <tr><td>76</td><td>New Struc Length</td><td>0 Ft. 0 In.</td></tr> <tr><td>94</td><td>Struc Improve Cost</td><td>\$ 0,000</td></tr> <tr><td>95</td><td>Roadway Improve Cost</td><td>\$ 0,000</td></tr> <tr><td>96</td><td>Total Project Cost</td><td>\$ 0,000</td></tr> <tr><td>97</td><td>Year of Cost Estimates</td><td>0</td></tr> </table>	Sufficiency Rating	70.9	Percent	Deficiency Rating	NOT DEFICIENT		Funding Eligibility			75A	Proposed Work		75B	Work Done By		76	New Struc Length	0 Ft. 0 In.	94	Struc Improve Cost	\$ 0,000	95	Roadway Improve Cost	\$ 0,000	96	Total Project Cost	\$ 0,000	97	Year of Cost Estimates	0	<table border="0" style="width:100%"> <tr><td>58</td><td>Deck Cond. Rating</td><td>7</td></tr> <tr><td>59</td><td>Superstructure Cond. Rating</td><td>8</td></tr> <tr><td>60</td><td>Substructure Cond. Rating</td><td>5</td></tr> <tr><td>61</td><td>Channel /Channel Protection Cond. Rating</td><td>6</td></tr> <tr><td>62</td><td>Culvert Cond. Rating</td><td>N</td></tr> </table>	58	Deck Cond. Rating	7	59	Superstructure Cond. Rating	8	60	Substructure Cond. Rating	5	61	Channel /Channel Protection Cond. Rating	6	62	Culvert Cond. Rating	N									
Sufficiency Rating	70.9	Percent																																																					
Deficiency Rating	NOT DEFICIENT																																																						
Funding Eligibility																																																							
75A	Proposed Work																																																						
75B	Work Done By																																																						
76	New Struc Length	0 Ft. 0 In.																																																					
94	Struc Improve Cost	\$ 0,000																																																					
95	Roadway Improve Cost	\$ 0,000																																																					
96	Total Project Cost	\$ 0,000																																																					
97	Year of Cost Estimates	0																																																					
58	Deck Cond. Rating	7																																																					
59	Superstructure Cond. Rating	8																																																					
60	Substructure Cond. Rating	5																																																					
61	Channel /Channel Protection Cond. Rating	6																																																					
62	Culvert Cond. Rating	N																																																					
APPRAISAL RATING INFORMATION	INSPECTION INFORMATION																																																						
<table border="0" style="width:100%"> <tr><td>36A</td><td>Br. Rail App. Rating</td><td>MEETS ACCEPTBLE STND</td></tr> <tr><td>36B</td><td>Transition Rail App. Rating</td><td>DOES NOT MEET ACCEPT STND</td></tr> <tr><td>36C</td><td>Approach Rail App. Rating</td><td>MEETS ACCEPTBLE STND</td></tr> <tr><td>36D</td><td>Rail End Treat. App. Rating</td><td>MEETS ACCEPTBLE STND</td></tr> <tr><td>67</td><td>Struc Eval App. Rating</td><td>5</td></tr> <tr><td>68</td><td>Deck Geometry App. Rating</td><td>5</td></tr> <tr><td>69</td><td>Underclearance App. Rating</td><td>N</td></tr> <tr><td>71</td><td>Waterway Adeq. App. Rating</td><td>5</td></tr> <tr><td>72</td><td>Approach Road App. Rating</td><td>8</td></tr> <tr><td>113</td><td>Scour Assess App. Rating</td><td>8</td></tr> </table>	36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND	36B	Transition Rail App. Rating	DOES NOT MEET ACCEPT STND	36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND	36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND	67	Struc Eval App. Rating	5	68	Deck Geometry App. Rating	5	69	Underclearance App. Rating	N	71	Waterway Adeq. App. Rating	5	72	Approach Road App. Rating	8	113	Scour Assess App. Rating	8	<table border="0" style="width:100%"> <tr><td>90</td><td>Gen. Insp Date</td><td>8 / 21</td></tr> <tr><td>91</td><td>Gen. Insp. Frequency</td><td>24 Months</td></tr> <tr><td>92A</td><td>Frac. Critical Inspection</td><td>N Months</td></tr> <tr><td>93A</td><td>Frac. Critical Insp. Date</td><td></td></tr> <tr><td>92B</td><td>Underwater Inspection</td><td>N Months</td></tr> <tr><td>93B</td><td>Underwater Insp. Date</td><td></td></tr> <tr><td>92C</td><td>Special Inspection</td><td>N Months</td></tr> <tr><td>93C</td><td>Special Inspection Date</td><td></td></tr> </table>	90	Gen. Insp Date	8 / 21	91	Gen. Insp. Frequency	24 Months	92A	Frac. Critical Inspection	N Months	93A	Frac. Critical Insp. Date		92B	Underwater Inspection	N Months	93B	Underwater Insp. Date		92C	Special Inspection	N Months	93C	Special Inspection Date	
36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND																																																					
36B	Transition Rail App. Rating	DOES NOT MEET ACCEPT STND																																																					
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND																																																					
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND																																																					
67	Struc Eval App. Rating	5																																																					
68	Deck Geometry App. Rating	5																																																					
69	Underclearance App. Rating	N																																																					
71	Waterway Adeq. App. Rating	5																																																					
72	Approach Road App. Rating	8																																																					
113	Scour Assess App. Rating	8																																																					
90	Gen. Insp Date	8 / 21																																																					
91	Gen. Insp. Frequency	24 Months																																																					
92A	Frac. Critical Inspection	N Months																																																					
93A	Frac. Critical Insp. Date																																																						
92B	Underwater Inspection	N Months																																																					
93B	Underwater Insp. Date																																																						
92C	Special Inspection	N Months																																																					
93C	Special Inspection Date																																																						
APPROVED POSTING INFORMATION	BORDER BRIDGE INFORMATION																																																						
<table border="0" style="width:100%"> <tr><td>Approved Posting Category</td><td>S-1</td></tr> <tr><td></td><td>Ton1 Ton2 Ton3</td></tr> <tr><td>Tonnage Values for Posting Sign</td><td></td></tr> <tr><td>General Text for Posting Sign</td><td></td></tr> <tr><td>NO POSTING REQUIRED</td><td></td></tr> </table>	Approved Posting Category	S-1		Ton1 Ton2 Ton3	Tonnage Values for Posting Sign		General Text for Posting Sign		NO POSTING REQUIRED		<table border="0" style="width:100%"> <tr><td>98</td><td>Neighboring State Code</td></tr> <tr><td>98B</td><td>Neighboring State % Respon</td></tr> <tr><td>99</td><td>Neighboring State Struc. No.</td></tr> </table>	98	Neighboring State Code	98B	Neighboring State % Respon	99	Neighboring State Struc. No.																																						
Approved Posting Category	S-1																																																						
	Ton1 Ton2 Ton3																																																						
Tonnage Values for Posting Sign																																																							
General Text for Posting Sign																																																							
NO POSTING REQUIRED																																																							
98	Neighboring State Code																																																						
98B	Neighboring State % Respon																																																						
99	Neighboring State Struc. No.																																																						
APPROVED POSTING INFORMATION	FIELD POSTING INFORMATION																																																						
<table border="0" style="width:100%"> <tr><td>Approved Posting Category</td><td>S-1</td></tr> <tr><td></td><td>Ton1 Ton2 Ton3</td></tr> <tr><td>Tonnage Values for Posting Sign</td><td></td></tr> <tr><td>General Text for Posting Sign</td><td></td></tr> <tr><td>NO POSTING REQUIRED</td><td></td></tr> </table>	Approved Posting Category	S-1		Ton1 Ton2 Ton3	Tonnage Values for Posting Sign		General Text for Posting Sign		NO POSTING REQUIRED		<table border="0" style="width:100%"> <tr><td>Field Posting Category</td><td>S-1</td></tr> <tr><td></td><td>Ton1 Ton2 Ton3</td></tr> <tr><td>Tonnage Values for Posting Sign</td><td></td></tr> <tr><td>General Text for Posting Sign</td><td></td></tr> <tr><td>NO POSTING REQUIRED</td><td></td></tr> </table>	Field Posting Category	S-1		Ton1 Ton2 Ton3	Tonnage Values for Posting Sign		General Text for Posting Sign		NO POSTING REQUIRED																																			
Approved Posting Category	S-1																																																						
	Ton1 Ton2 Ton3																																																						
Tonnage Values for Posting Sign																																																							
General Text for Posting Sign																																																							
NO POSTING REQUIRED																																																							
Field Posting Category	S-1																																																						
	Ton1 Ton2 Ton3																																																						
Tonnage Values for Posting Sign																																																							
General Text for Posting Sign																																																							
NO POSTING REQUIRED																																																							

Design_No = g0248



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

September 11, 2023
1:12:08pm

COUNTY : LACLEDE	BRIDGE : G0248 3	REVIEW STATUS : APPROVED	NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT	RUN DATE : 8/14/2023	SUBMITTAL YEAR : 2023	

GENERAL STRUCTURE INFORMATION	ROUTE DESIGNATION INFORMATION
1 State MISSOURI	5A Record Type ROUTE CARRIED 'ON' STRUCT
2 District CD	5B Route Signing Prefix MO
3 County LACLEDE	5C Designated Level of Service SERVICE AND/OR UNCLASS
8 Federal ID No. 4571	5D Route Number 00044
27 Year Built 1923	5E Directional Suffix NOT APPLICABLE
106 Year Reconstructed 1972	7 Facility Carried OR 44 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 09-RURAL LOCAL
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 LEBANON	29 AADT 416
Code 41186	30 AADT Year 2022
9 Location S 28 T 35 N R 15 W	102 Direction of Traffic 2-WAY TRAFFIC
11 Milepoint 5.00 miles	109 AADT Truck Percent 10%
16 Latitude 37 D 44 M 27 S	114 Future AADT 624
17 Longitude 92 D 35 M 11 S	115 Future AADT Year 2042

UNDERRECORD INFORMATION	STRUCTURE GEOMETRIC INFORMATION
6 Features Intersected BEAR CR	10 Inventory Rte. Vert. Clear 99 Ft. 99 In.
42B Type of Service Under WATERWAY	19 By pass Detour Length 1.88 miles
28B Lanes Under Structure 00	32 Approach Roadway Width 21 Ft. 12 In.
54A Vert. Clearance Ref. N/A	34 Skew 61.00 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 80 Ft. 1 In.
56 Left Lat Clearance 0 Ft. 0 In.	49 Structure Length 89 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 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.

Design_No = g0248



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

September 11, 2023
1:12:08pm

COUNTY : LACLEDE	BRIDGE : G0248 3	REVIEW STATUS : APPROVED	NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT		RUN DATE : 8/14/2023	SUBMITTAL YEAR : 2023

LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION																																																						
<table border="0" style="width:100%"> <tr><td>31</td><td>Design Load</td><td>H 15</td></tr> <tr><td>41</td><td>Structure Status</td><td>OPEN NO RESTRICTIONS</td></tr> <tr><td>63</td><td>Oper. Rating Meth.</td><td>LOAD FACTOR</td></tr> <tr><td>64</td><td>Operating Rating</td><td>41 Tons.</td></tr> <tr><td>65</td><td>Inventory Rating Meth</td><td>LOAD FACTOR</td></tr> <tr><td>66</td><td>Inventory Rating</td><td>24 Tons.</td></tr> <tr><td>70</td><td>Bridge Posting Code</td><td>=>LEGAL LOADS</td></tr> </table>	31	Design Load	H 15	41	Structure Status	OPEN NO RESTRICTIONS	63	Oper. Rating Meth.	LOAD FACTOR	64	Operating Rating	41 Tons.	65	Inventory Rating Meth	LOAD FACTOR	66	Inventory Rating	24 Tons.	70	Bridge Posting Code	=>LEGAL LOADS	<table border="0" style="width:100%"> <tr><td>43A</td><td>Main Struc. Mat type</td><td>STEEL</td></tr> <tr><td>43B</td><td>Main struc Constr. Type</td><td>STRINGER/MULTIBEAM - GRD</td></tr> <tr><td>45</td><td># of Main Spans</td><td>1</td></tr> <tr><td>44A</td><td>Appr Struc. Mat type</td><td>000</td></tr> <tr><td>44B</td><td>Appr Struc. Cnstr. type</td><td>000</td></tr> <tr><td>46</td><td># of Approach Span</td><td>0</td></tr> <tr><td>107</td><td>Deck Mat/Constr.</td><td>1 CONCRETE CIP</td></tr> <tr><td>108A</td><td>Wear Surf Mat/Constr.</td><td>6 BITUMINOUS</td></tr> <tr><td>108B</td><td>Membrane Mat/Constr.</td><td>0 NONE</td></tr> <tr><td>108C</td><td>Deck Protect Mat/Constr.</td><td>0 NONE</td></tr> </table>	43A	Main Struc. Mat type	STEEL	43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD	45	# of Main Spans	1	44A	Appr Struc. Mat type	000	44B	Appr Struc. Cnstr. type	000	46	# of Approach Span	0	107	Deck Mat/Constr.	1 CONCRETE CIP	108A	Wear Surf Mat/Constr.	6 BITUMINOUS	108B	Membrane Mat/Constr.	0 NONE	108C	Deck Protect Mat/Constr.	0 NONE			
31	Design Load	H 15																																																					
41	Structure Status	OPEN NO RESTRICTIONS																																																					
63	Oper. Rating Meth.	LOAD FACTOR																																																					
64	Operating Rating	41 Tons.																																																					
65	Inventory Rating Meth	LOAD FACTOR																																																					
66	Inventory Rating	24 Tons.																																																					
70	Bridge Posting Code	=>LEGAL LOADS																																																					
43A	Main Struc. Mat type	STEEL																																																					
43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD																																																					
45	# of Main Spans	1																																																					
44A	Appr Struc. Mat type	000																																																					
44B	Appr Struc. Cnstr. type	000																																																					
46	# of Approach Span	0																																																					
107	Deck Mat/Constr.	1 CONCRETE CIP																																																					
108A	Wear Surf Mat/Constr.	6 BITUMINOUS																																																					
108B	Membrane Mat/Constr.	0 NONE																																																					
108C	Deck Protect Mat/Constr.	0 NONE																																																					
PROPOSED IMPROVEMENT INFORMATION	CONDITION RATING INFORMATION																																																						
<table border="0" style="width:100%"> <tr><td>Sufficiency Rating</td><td>54.8</td><td>Percent</td></tr> <tr><td>Deficiency Rating</td><td colspan="2">STRUCTURAL</td></tr> <tr><td>Funding Eligibility</td><td colspan="2">PARTIAL</td></tr> <tr><td>75A</td><td>Proposed Work</td><td>REHAB-GENERAL DETERIORAT</td></tr> <tr><td>75B</td><td>Work Done By</td><td>Contract</td></tr> <tr><td>76</td><td>New Struc Length</td><td>121 Ft. 5 In.</td></tr> <tr><td>94</td><td>Struc Improve Cost</td><td>\$ 403,000</td></tr> <tr><td>95</td><td>Roadway Improve Cost</td><td>\$ 40,000</td></tr> <tr><td>96</td><td>Total Project Cost</td><td>\$ 605,000</td></tr> <tr><td>97</td><td>Year of Cost Estimates</td><td>2023</td></tr> </table>	Sufficiency Rating	54.8	Percent	Deficiency Rating	STRUCTURAL		Funding Eligibility	PARTIAL		75A	Proposed Work	REHAB-GENERAL DETERIORAT	75B	Work Done By	Contract	76	New Struc Length	121 Ft. 5 In.	94	Struc Improve Cost	\$ 403,000	95	Roadway Improve Cost	\$ 40,000	96	Total Project Cost	\$ 605,000	97	Year of Cost Estimates	2023	<table border="0" style="width:100%"> <tr><td>58</td><td>Deck Cond. Rating</td><td>7</td></tr> <tr><td>59</td><td>Superstructure Cond. Rating</td><td>5</td></tr> <tr><td>60</td><td>Substructure Cond. Rating</td><td>4</td></tr> <tr><td>61</td><td>Channel /Channel Protection Cond. Rating</td><td>6</td></tr> <tr><td>62</td><td>Culvert Cond. Rating</td><td>N</td></tr> </table>	58	Deck Cond. Rating	7	59	Superstructure Cond. Rating	5	60	Substructure Cond. Rating	4	61	Channel /Channel Protection Cond. Rating	6	62	Culvert Cond. Rating	N									
Sufficiency Rating	54.8	Percent																																																					
Deficiency Rating	STRUCTURAL																																																						
Funding Eligibility	PARTIAL																																																						
75A	Proposed Work	REHAB-GENERAL DETERIORAT																																																					
75B	Work Done By	Contract																																																					
76	New Struc Length	121 Ft. 5 In.																																																					
94	Struc Improve Cost	\$ 403,000																																																					
95	Roadway Improve Cost	\$ 40,000																																																					
96	Total Project Cost	\$ 605,000																																																					
97	Year of Cost Estimates	2023																																																					
58	Deck Cond. Rating	7																																																					
59	Superstructure Cond. Rating	5																																																					
60	Substructure Cond. Rating	4																																																					
61	Channel /Channel Protection Cond. Rating	6																																																					
62	Culvert Cond. Rating	N																																																					
APPRAISAL RATING INFORMATION	INSPECTION INFORMATION																																																						
<table border="0" style="width:100%"> <tr><td>36A</td><td>Br. Rail App. Rating</td><td>MEETS ACCEPTBLE STND</td></tr> <tr><td>36B</td><td>Transition Rail App. Rating</td><td>DOES NOT MEET ACCEPT STND</td></tr> <tr><td>36C</td><td>Approach Rail App. Rating</td><td>MEETS ACCEPTBLE STND</td></tr> <tr><td>36D</td><td>Rail End Treat. App. Rating</td><td>MEETS ACCEPTBLE STND</td></tr> <tr><td>67</td><td>Struc Eval App. Rating</td><td>4</td></tr> <tr><td>68</td><td>Deck Geometry App. Rating</td><td>5</td></tr> <tr><td>69</td><td>Underclearance App. Rating</td><td>N</td></tr> <tr><td>71</td><td>Waterway Adeq. App. Rating</td><td>5</td></tr> <tr><td>72</td><td>Approach Road App. Rating</td><td>8</td></tr> <tr><td>113</td><td>Scour Assess App. Rating</td><td>8</td></tr> </table>	36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND	36B	Transition Rail App. Rating	DOES NOT MEET ACCEPT STND	36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND	36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND	67	Struc Eval App. Rating	4	68	Deck Geometry App. Rating	5	69	Underclearance App. Rating	N	71	Waterway Adeq. App. Rating	5	72	Approach Road App. Rating	8	113	Scour Assess App. Rating	8	<table border="0" style="width:100%"> <tr><td>90</td><td>Gen. Insp Date</td><td>8 / 23</td></tr> <tr><td>91</td><td>Gen. Insp. Frequency</td><td>24 Months</td></tr> <tr><td>92A</td><td>Frac. Critical Inspection</td><td>N Months</td></tr> <tr><td>93A</td><td>Frac. Critical Insp. Date</td><td></td></tr> <tr><td>92B</td><td>Underwater Inspection</td><td>N Months</td></tr> <tr><td>93B</td><td>Underwater Insp. Date</td><td></td></tr> <tr><td>92C</td><td>Special Inspection</td><td>N Months</td></tr> <tr><td>93C</td><td>Special Inspection Date</td><td></td></tr> </table>	90	Gen. Insp Date	8 / 23	91	Gen. Insp. Frequency	24 Months	92A	Frac. Critical Inspection	N Months	93A	Frac. Critical Insp. Date		92B	Underwater Inspection	N Months	93B	Underwater Insp. Date		92C	Special Inspection	N Months	93C	Special Inspection Date	
36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND																																																					
36B	Transition Rail App. Rating	DOES NOT MEET ACCEPT STND																																																					
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND																																																					
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND																																																					
67	Struc Eval App. Rating	4																																																					
68	Deck Geometry App. Rating	5																																																					
69	Underclearance App. Rating	N																																																					
71	Waterway Adeq. App. Rating	5																																																					
72	Approach Road App. Rating	8																																																					
113	Scour Assess App. Rating	8																																																					
90	Gen. Insp Date	8 / 23																																																					
91	Gen. Insp. Frequency	24 Months																																																					
92A	Frac. Critical Inspection	N Months																																																					
93A	Frac. Critical Insp. Date																																																						
92B	Underwater Inspection	N Months																																																					
93B	Underwater Insp. Date																																																						
92C	Special Inspection	N Months																																																					
93C	Special Inspection Date																																																						
APPROVED POSTING INFORMATION	BORDER BRIDGE INFORMATION																																																						
<table border="0" style="width:100%"> <tr><td>Approved Posting Category</td><td>S-1</td></tr> <tr><td></td><td>Ton1 Ton2 Ton3</td></tr> <tr><td>Tonnage Values for Posting Sign</td><td></td></tr> <tr><td>General Text for Posting Sign</td><td></td></tr> <tr><td>NO POSTING REQUIRED</td><td></td></tr> </table>	Approved Posting Category	S-1		Ton1 Ton2 Ton3	Tonnage Values for Posting Sign		General Text for Posting Sign		NO POSTING REQUIRED		<table border="0" style="width:100%"> <tr><td>98</td><td>Neighboring State Code</td></tr> <tr><td>98B</td><td>Neighboring State % Respon</td></tr> <tr><td>99</td><td>Neighboring State Struc. No.</td></tr> </table>	98	Neighboring State Code	98B	Neighboring State % Respon	99	Neighboring State Struc. No.																																						
Approved Posting Category	S-1																																																						
	Ton1 Ton2 Ton3																																																						
Tonnage Values for Posting Sign																																																							
General Text for Posting Sign																																																							
NO POSTING REQUIRED																																																							
98	Neighboring State Code																																																						
98B	Neighboring State % Respon																																																						
99	Neighboring State Struc. No.																																																						
APPROVED POSTING INFORMATION	FIELD POSTING INFORMATION																																																						
<table border="0" style="width:100%"> <tr><td>Approved Posting Category</td><td>S-1</td></tr> <tr><td></td><td>Ton1 Ton2 Ton3</td></tr> <tr><td>Tonnage Values for Posting Sign</td><td></td></tr> <tr><td>General Text for Posting Sign</td><td></td></tr> <tr><td>NO POSTING REQUIRED</td><td></td></tr> </table>	Approved Posting Category	S-1		Ton1 Ton2 Ton3	Tonnage Values for Posting Sign		General Text for Posting Sign		NO POSTING REQUIRED		<table border="0" style="width:100%"> <tr><td>Field Posting Category</td><td>S-1</td></tr> <tr><td></td><td>Ton1 Ton2 Ton3</td></tr> <tr><td>Tonnage Values for Posting Sign</td><td></td></tr> <tr><td>General Text for Posting Sign</td><td></td></tr> <tr><td>NO POSTING REQUIRED</td><td></td></tr> </table>	Field Posting Category	S-1		Ton1 Ton2 Ton3	Tonnage Values for Posting Sign		General Text for Posting Sign		NO POSTING REQUIRED																																			
Approved Posting Category	S-1																																																						
	Ton1 Ton2 Ton3																																																						
Tonnage Values for Posting Sign																																																							
General Text for Posting Sign																																																							
NO POSTING REQUIRED																																																							
Field Posting Category	S-1																																																						
	Ton1 Ton2 Ton3																																																						
Tonnage Values for Posting Sign																																																							
General Text for Posting Sign																																																							
NO POSTING REQUIRED																																																							

Design_No = g0248

Bridge Number:

60248R3

Route/County:

OR 44/Laclede

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: Diane Roegge *Diane Roegge*
Environmental Chemist

DATE: October 10, 2017

SUBJECT: Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route OR 44
Bridge G-0248R3
Laclede 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) 526-4359.

db/fr/dr

[http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared
documents/asbestos/districts/central \(cd\)/mt/g0248r3/dr17101003.docx](http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared/documents/asbestos/districts/central(cd)/mt/g0248r3/dr17101003.docx)

Attachments



MEMORANDUM

Missouri Department of Transportation Construction and Materials Central Laboratory

TO: TMS

CC:

FROM: Diane Roegge 
Environmental Chemist, Lead License #110506-300003365

DATE: October 11, 2017

SUBJECT: Materials
Job No. N/A
OR 44/Laclede County
Bridge G-0248R3

On October 10, 2017, a field check of the paint system and a paint screening for regulated heavy metals was performed on the subject bridge. The following results were obtained:

	17MD1R765	17MD1R766
LOCATION:	Railing	Girder
Arsenic (As)	LOD*	LOD*
Chromium (Cr)	50 ppm**	243 ppm**
Lead (Pb)	1,500 ppm (0.2%)	2,236 ppm (0.2%)
Cadmium (Cd)	183 ppm	108 ppm
Selenium (Se)	LOD	LOD
Barium (Ba)	166 ppm	872 ppm
Mercury (Hg)	LOD	LOD
Silver (Ag)	LOD	LOD

*LOD = below the detection limit of the instrument

**ppm = parts per million

TMS paint data shows System C Aluminum paint, applied in 1995. The field check and results verify the information found in TMS.

The existing paint system is NOT lead-based paint.

Should further screenings be required, please contact Todd Bennett, Chemical Laboratory Director, at (573) 751-1045. Should you have any questions, feel free to call me at (573) 526-4359.

fr/dr

[http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared documents/asbestos/districts/central \(cd\)/mt/g0248r3/lbp g0248r3.docx](http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared/documents/asbestos/districts/central(cd)/mt/g0248r3/lbp_g0248r3.docx)

Expiration Date: 10/25/2017 Certificate Number: 7020102516MOIR7165
Training Date: 10/25/2016

Missouri State Certificate for Asbestos Related Occupations

issued by Department of Natural Resources
P.O. Box 1776
Jefferson City, MO 65102
Phone (573) 751-4817

Diane R Roegge

has successfully completed the requirements for certification as a INSPECTOR. This Missouri State Certification is subject to review and the director may deny, suspend or revoke the certification per RSMo chapter 643.230.

12/2/2016
Date

Diane R Roegge
Director of Air Pollution Control Program

