



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

COUNTY: RIPLEY S0889 1 REVIEW STATUS: APPROVED T **BRIDGE:** NBI STATUS: 3/15/2024 2024 ROUTE CARRIED 'ON' STRUCT **RECORD TYPE: RUN DATE: SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION ROUTE CARRIED 'ON' STRUCT State MISSOURI 5A Record Type MO District 5B SE Route Signing Prefix MAINLINE RIPLEY County 5C Designated Level of Service 00142 8892 8 Federal ID No. 5D Route Number 1933 NOT APPLICABLE 27 5E Year Built Directional Suffix MO 142 E 106 0 7 Year Reconstructed Facility Carried YES HIGHWAY Type of Service On 12 Base Hwv. Network STATE HIGHWAY AGENCY 0000001107 21 Structure Maintenance 13A LRS Inventory Route No. 00 STATE HIGHWAY AGENCY 22 Structure Owner 13B Subroute No. 33 NO MEDIAN Toll Status ON FREE ROAD Br. Median Code 20 06-RURAL MINOR ARTERIAL 37 Historical Significance HISTORICAL SIGNIF UNKNWN 26 Functional Classification NONE EXISTS 101 28A Parallel Struc Desg Lanes on Structure NOT TEMPORARY Temporary Structure 103 RTE NOT A DEFENSE HWY 100 STRAHNET Designation NBIS Bridge Length YES NOT ON NHS National Highway System 104 NOT APPLICABLE 105 Federal Lands Highway NO 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 1181 4 Place VARNER 29 AADT 75778 2023 Code 30 AADT Year 2-WAY TRAFFIC S 36 T 23 N R 3 E Location 102 Direction of Traffic 11 Milepoint 91.87 miles 12% 109 AADT Truck Percent 36 D 35 M 40 S 16 Latitude 1772 114 Future AADT 17 Longitude 90 D 41 M 43 S 2043 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION 6 LOGAN CR 10 99 Ft. 99 In. Features Intersected Inventory Rte. Vert. Clear 42B WATERWAY 19 19.38 miles Type of Service Under By pass Detour Length 00 28B Lanes Under Structure 32 Approach Roadway Width 20 Ft. 0 In. N/A 15.00 Degrees 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 0 Ft. 0 In. 35 Struct. Flared Rt. Lat Clear Ref. N/A Total Horiz. Clear 20 Ft. 0 In. 55A 47 55B Rt. Lat Clearance 0 Ft. 0 In. 48 Maximum Span Length 42 Ft. 12 In. 147 Ft. 12 In. Left Lat Clearance 0 Ft. 0 In. 49 Structure Length PERMIT NOT REQ Navigation Control 50A 0 Ft. 0 In. Left Curb/Sidewalk Width Nav Vertical Clear 0 Ft. 0 In. 39 50B Right Curb/Sidewalk Width 0 Ft. 0 In. 0 Ft. 0 In. Curb to Curb Br. Width 20 Ft. 0 In. 40 Nav Horizontal Clear 51 20 Ft. 12 In. Nav. Pier Protection Deck Width (Out-Out) 111 52 99 Ft. 99 In. Nav. Cl. Vert. Clear 53 Vert.Clearance Over Deck





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

COUNTY: RIPLEY BRIDGE: \$0889 1 REVIEW STATUS: APPROVED NBI STATUS: T

RECORD TYPE: ROUTE CARRIED 'ON' STRUCT RUN DATE: 3/15/2024 SUBMITTAL YEAR: 2024

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 10 41 Structure Status POSTED FOR LOAD 63 Oper. Rating Meth. LOAD FACTOR 64 Operating Rating 23 Tons. 65 Inventory Rating Meth LOAD FACTOR 66 Inventory Rating 14 Tons. 70 Bridge Posting Code 30.0-39.9% BELOW PROPOSED IMPROVEMENT INFORMATION Sufficiency Rating Deficiency Rating Deficiency Rating Funding Eligibility FULL	MATERIAL/CONSTRUCTION INFORMATION 43A Main Struc. Mat type STEEL 43B Main struc Constr. Type STRINGER/MULTIBEAM - GRD 45 # of Main Spans 4 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 CONDITION RATING INFORMATION
75A Proposed Work REPLACEMENT SUBSTND LOAD 75B Work Done By Contract 76 New Struc Length 180 Ft. 5 In. 94 Struc Improve Cost \$1,044,000 95 Roadway Improve Cost \$104,000	58 Deck Cond. Rating 4 59 Superstructure Cond. Rating 5 60 Substructure Cond. Rating 5 61 Channel /Channel Protection Cond. Rating 5 62 Culvert Cond. Rating N
96 Total Project Cost \$1,566,000 97 Year of Cost Estimates 2024	INSPECTION INFORMATION
APPRAISAL RATING INFORMATION 36A Br. Rail App. Rating MEETS ACCEPTBLE STND 36B Transition Rail App. Rating MEETS ACCEPTBLE 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 2 69 Underclearance App. Rating N 71 Waterway Adeq. App. Rating 4 72 Approach Road App. Rating 6 113 Scour Assess App. Rating 8	90 Gen. Insp Date 1 / 24 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 BORDER BRIDGE INFORMATION 98 Neighboring State Code 98B Neighboring State % Respon 99 Neighboring State Struc. No.
APPROVED POSTING INFORMATION	FIELD POSTING INFORMATION
Approved Posting Category S-16 Ton1 Ton2 Ton3 Tonnage Values for Posting Sign 16 22 39 General Text for Posting Sign TRKS OVR 16 TNS 15MPH ON BR EXCPT SNGLE UNIT TRKS WT LIMIT 22 TNS&ALL OTHR TRKS WT LIMIT 39 TNS.	Field Posting Category S-16 Ton1 Ton2 Ton3 Tonnage Values for Posting Sign 16 22 39 General Text for Posting Sign TRKS OVR 16 TNS 15MPH ON BR EXCPT SNGLE UNIT TRKS WT LIMIT 22 TNS&ALL OTHR TRKS WT LIMIT 39 TNS.

Design_No = S0889 and Inventory_Appraisal_Submittal_Year = 2024



December 09, 2024 7:13:20AM

COUNTY: RIPLEY DISTRICT: SE CLASS: STATBR FED-ID: 8892 BRIDGE: S0889

GENERAL STRUCTURE INFORMATION ***BRIDGE INSPECTION INFORMATION*** ROUTE: MO142E # **SPANS**: 4 PLACE CODE: 75778 VARNER **DATE:** 01/11/2024 **RESPONSIBILITY: DISTRICT** LANES ON: 2 FEATURE: LOGAN CR LENGTH: 148 FT 0 IN FREQUENCY: 24 **CALCULATED INTERVAL**: 24** LANES UNDER: 0 **STATUS:** P-POSTLOAD MAXIMUM SPAN: 43 FT 1 IN **TEAM LEADER: JERROD JERNIGAN ELEMENT: NO LOG MILE:** 91.338 **COMPASS DIRECTION: WEST to EAST** APPROACH ROADWAY: 20 FT 0 IN **INSPECTOR 2: INSPECTOR 4: DETOUR: 19.00 MILES DIRECTION OF TRAFFIC: 2-WAY TRAF** CURB TO CURB: 20 FT 0 IN **INSPECTOR 3: OUT TO OUT:** 21 FT 0 IN NHS: NO **FUNCTIONAL CLASS: RL-MINOR ARTERIAL** ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. **BUILT:** 1933 **NBI OWNER: MODOT AADT:** 1181 **GENERAL INSPECTION COMMENTS** REHAB: **NBI MAINTAINED: MODOT AADT YEAR: 2023** MAINTENANCE DISTRICT: SE LOCATION: S 36 T 23 R 3 E **AADT TRUCK:** 12.4% **LATITUDE:** 36 35 39.92 (DMS) **MAINTENANCE COUNTY: RIPLEY FUTURE AADT: 1772 LONGITUDE:** 90 41 43.05 (DMS) SUB AREA: 7H12 **FUTURE AADT YEAR: 2043** ***INDEPTH INSPECTION INFORMATION*** ***FRACTURE CRITICAL INSPECTION INFORMATION*** DATE: RESPONSIBILITY: **CATEGORY: CATEGORY:** DATE: **RESPONSIBILITY: FREQUENCY: CALCULATED INTERVAL**: NBI**: **FREQUENCY: CALCULATED INTERVAL**: NBI**: **TEAM LEADER: INSPECTOR 3: METHOD: TEAM LEADER: INSPECTOR 3: METHOD: INSPECTOR 2: INSPECTOR 4: INSPECTOR 2: INSPECTOR 4:** ** 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*** **CATEGORY:** CHANNEL CROSS SECT **CATEGORY: SHALLOW-WADE DATE:** 07/23/2020 **RESPONSIBILITY: DISTRICT DATE:** 01/11/2024 **RESPONSIBILITY: DISTRICT** FREQUENCY: 60 **NBI:** NO NBI: NO FREOUENCY: 72 CALCULATED INTERVAL**: 72 CALCULATED INTERVAL**: 24 **TEAM LEADER: INSPECTOR 3: METHOD:** WT TAPE **TEAM LEADER: INSPECTOR 3: METHOD: PROBE INSPECTOR 2:** ED HESS **INSPECTOR 4: INSPECTOR 2:** JERROD JERNIGAN **INSPECTOR 4:** ** 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 **DATE FREQUENCY CATEGORY** NBI CALCULATED INTERVAL RESPONSIBILITY **METHOD** DATE **FREQUENCY CATEGORY** NBI CALCULATED INTERVAL RESPONSIBILITY **METHOD**



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COUNTY: RIPLEY DISTRICT: SE CLASS: STATBR FED-ID: 8892 **BRIDGE: S0889** ***STRUCTURE POSTING*** **APPROVED CATEGORY: S-16** TRKS OVR 16 TNS 15MPH ON BR EXCPT SNGLE UNIT TRKS WT LIMIT 22 TNS&ALL OTHR TRKS WT LIMIT 39 TNS. **Ton 1:** 16 **Ton 3:** 39 **Ton 2:** 22 **COMMENTS:** FIELD CATEGORY: S-16 TRKS OVR 16 TNS 15MPH ON BR EXCPT SNGLE UNIT TRKS WT LIMIT 22 TNS&ALL OTHR TRKS PROBLEM DIRECTION: **Ton 1:** 16 **Ton 2:** 22 **Ton 3:** 39 PROBLEM: **COMMENTS:** ***GENERAL COMMENTS/MAJOR RATED ITEMS*** GENERAL COMMENTS: (BOWDEJ1, 08/28/2008)--(30'-43'-43'-30') SMP WF GDR SPANS [ITEM 58] DECK: 4-POOR CONDITION COMMENTS: (DENNIB1, 01/14/2020)--EXPOSED REBAR **RATING:** 01/31/2022 [ITEM 59] SUPER: 5-FAIR CONDITION COMMENTS: (SHRUBM1, 03/05/2012)--TOP FLANGE RUSTING **RATING:** 05/18/2001 [ITEM 60] SUB: 5-FAIR CONDITION COMMENTS: (DENNIB1, 01/14/2020)--SPALLS & SCALING **RATING:** 01/14/2020 [ITEM 61] BANK/CHANNEL: 5-MAJOR DAMAGE COMMENTS: (DENNIB1, 01/14/2020)--EROSION ON BOTH SLOPES **RATING:** 01/14/2020 [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: 6-SATISFACTORY **COMMENTS: RATING:** 05/18/2001 ***RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS*** [ITEM 36A] BRIDGE RAILING RATING: MEETS CURRENT STANDARDS-1 **RATING**: 01/22/2018 **COMMENTS: MATERIAL CONSTRUCTION DIRECTION COMMENTS** GALVANIZED STEEL THRIE BEAM **BOTH** [ITEM 36B] TRANSITION RAILING RATING: MEETS CURRENT STANDARDS-1 **RATING:** 01/22/2018 **COMMENTS:** MATERIAL **CONSTRUCTION DIRECTION COMMENTS GALVANIZED STEEL** THRIE BEAM TO W-BEAM ALL **RATING**: 01/22/2018 **COMMENTS:** [ITEM 36C] APPROACH RAILING RATING: MEETS CURRENT STANDARDS-1 MATERIAL **CONSTRUCTION DIRECTION COMMENTS GALVANIZED STEEL** W-BEAM ALL

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[ITEM 36D] RAIL END TREATMENT RATING: MEETS CURRENT STANDARDS-1

RATING: 01/22/2018

COMMENTS:

Missouri Department of Transportation

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State Bridge Inspection Report

COUNTY: RIPLEY DISTRICT: SE CLASS: STATBR FED-ID: 8892 BRIDGE: S0889 CONSTRUCTION DIRECTION **COMMENTS** MATERIAL **GALVANIZED STEEL BREKAWAY SYSTEM** ALL APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below. **MATERIAL CONSTRUCTION DIRECTION CONDITION* COMMENTS ASPHALT BITUMINOUS MAT BOTH** GOOD

DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS

DECK PROTECTIVE COMPONENTS: SERIES TYPE-# COMPONENT MATERIAL CONSTRUCTION THICKNESS YEAR APPLIED MANUFACTURE **OVERALL CONDITION** MAIN SERIES-1 WEARING SURFACE ASPHALT1 IN GOODBITUMINOUS MAT 2016

COMMENT:

MODOT

DECK PROTECTION NONE *NOTAPPLICABLE*

COMMENT:

MEMBRANE NOTAPPLICABLE NONE

COMMENT:

DRAINAGE COMPONENTS:

COMPONENT MATERIAL CONSTRUCTION DIRECTION COMMENTS

EXPANSION DEVICE COMPONENTS:

MANUFACTURE SUB UNIT-# SUB LABEL **COMPONENT MATERIAL CONSTRUCTION GAP** YEAR APPLIED **OVERALL CONDITION**

COMMENT:

BANK/SLOPE PROTECTION COMPONENTS:

COMPONENT MATERIAL CONSTRUCTION DIRECTION COMMENTS BANK PROTECTION ROCK**GROUTED** BOTH

DECK COMPONENTS

SPAN TYPE-# **COMPONENT MATERIAL CONSTRUCTION COMMENTS**

MAIN SPANS-1 DECKREINFORCED CONCRETE CAST-IN-PLACE **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT**

DETERIORATION MINOR **EDGE** SPALLS THROUGHOUT **MODERATE** TRANSVERSE CRACKS THROUGHOUT **MODERATE**

MAIN SPANS-2 DECKREINFORCED CONCRETE CAST-IN-PLACE

CONDITION LOCATION 1 **SEVERITY MEASUREMENT** LOCATION 2 **COMMENT DETERIORATION EDGE MODERATE** EFFLORESCENCE **THROUGHOUT** LIGHT REBAR EXPOSED **MODERATE** THROUGHOUT **SPALLS** THROUGHOUT MANY TRANSVERSE CRACKS MANY THROUGHOUT

Design No = S0889

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COUNTY: RIPLEY DISTRICT: SE CLASS: STATBR FED-ID: 8892 BRIDGE: S0889

REINFORCED CONCRETE MAIN SPANS-3 DECKCAST-IN-PLACE **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT DETERIORATION EDGE MODERATE EFFLORESCENCE** THROUGHOUT **MODERATE** REBAR EXPOSED THROUGHOUT **MINOR SPALLS** THROUGHOUT MANY TRANSVERSE CRACKS THROUGHOUT MANY MAIN SPANS-4 DECKREINFORCED CONCRETE CAST-IN-PLACE **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT DETERIORATION EDGE MINOR** LIGHT **EFFLORESCENCE** THROUGHOUT TRANSVERSE CRACKS THROUGHOUT MANY ***SUPERSTRUCTURE COMPONENTS*** SERIES TYPE-# COMMENTS SPAN TYPE MATERIAL CONSTRUCTION LABEL MAIN SERIES-1 SIMPLE SPAN STEEL WIDE FLANGE GIRDERS **WEATHERING STEEL COMMENTS** <u>SPAN</u> **COMPOSITE INDICATOR LENGTH** MAIN SPANS-1 NON-COMPOSITE 30 FT 11 IN NO **SEVERITY CONDITION** LOCATION 1 **LOCATION 2 MEASUREMENT COMMENT DECK LIFTING TOP FLANGE MODERATE RUSTING TOP FLANGE MODERATE** SECTION LOSS AT JOINTS **MINOR TOP FLANGE MINOR** SECTION LOSS MAIN SPANS-2 NON-COMPOSITE NO 43 FT 1 IN **CONDITION** LOCATION 1 LOCATION 2 SEVERITY **MEASUREMENT COMMENT DECK LIFTING TOP FLANGE MODERATE** RUSTING **TOP FLANGE MODERATE** SECTION LOSS AT JOINTS **MINOR** SECTION LOSS **TOP FLANGE MINOR** MAIN SPANS-3 NON-COMPOSITE 43 FT 1 IN NO LOCATION 1 **SEVERITY CONDITION** LOCATION 2 **MEASUREMENT COMMENT TOP FLANGE MODERATE DECK LIFTING** RUSTING **TOP FLANGE MODERATE** AT JOINTS MINOR SECTION LOSS SECTION LOSS **TOP FLANGE MINOR** MAIN SPANS-4 NON-COMPOSITE 30 FT 11 IN NO **SEVERITY CONDITION LOCATION 1** LOCATION 2 **MEASUREMENT COMMENT DECK LIFTING TOP FLANGE MODERATE RUSTING TOP FLANGE MODERATE** SECTION LOSS AT JOINTS **MODERATE** SECTION LOSS TOP FLANGE MINOR

SUBSTRUCTURE COMPONENTS

COUNTY: RIPLEY DISTRICT: SE CLASS: STATBR FED-ID: 8892 BRIDGE: S0889

COUNTY: RIPLEY	DISTRICT: SE	CLASS: STATBR	FED-ID: 8892 BRIDGE: S0889
SUBSTRUCTURE SKEW	<u>LENGTH</u> <u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL COMMENTS</u>
ABUTMENT-1 LA-15 DEGREES	20 FT 2 IN REINFORCED CONCRETE	NON-INTEGRAL	(STEGEC, $05/10/2005$)PROFILE GRADE ELEVATION = 321.0 (FLAT)
CONDITION	LOCATION 1	LOCATION 2	SEVERITY MEASUREMENT COMMENT
ASSOCIATED COMPONENT	MATERIAL	CONSTRUCTION	
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE	
CONDITION	LOCATION 1	LOCATION 2	SEVERITY MEASUREMENT COMMENT
		<u> </u>	<u>SEVERITI MEASUREMENT COMMENT</u>
COLUMN	REINFORCED CONCRETE	CAST-IN-PLACE	CELVEDIAN ALE COUDEN ENTE COLLEGENT
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>
FOOTING	REINFORCED CONCRETE	SPREAD	
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>
STRAIGHT WINGS	REINFORCED CONCRETE	CAST-IN-PLACE	
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>
BACKWALL	REINFORCED CONCRETE	CAST-IN-PLACE	
CONDITION	LOCATION 1	<u>LOCATION 2</u>	<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>
EXPANSION BEARING	STEEL	SLIDING FLAT PLATE	
CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY MEASUREMENT COMMENT</u>
RUSTING	THROUGHOUT	<u> </u>	MINOR
ROSTING	HIROUGHOUT		WIIVOR
BENT-2 LA-15 DEGREES	21 FT 6 IN REINFORCED CONCRETE	MULTIPLE COLUMN	(STEGEC, $05/10/2005$)PROFILE GRADE ELEVATION = 321.0 (FLAT)
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>
ASSOCIATED COMPONENT	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE	
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>
DELAMINATION	RANDOM		MODERATE
REBAR EXPOSED	THROUGHOUT		MODERATE
COLUMN	REINFORCED CONCRETE	CAST-IN-PLACE	
CONDITION	<u>LOCATION 1</u>	LOCATION 2	SEVERITY MEASUREMENT COMMENT
SCALING	WATERLINE		MODERATE
FOOTING	REINFORCED CONCRETE	SPREAD	
CONDITION	LOCATION 1	LOCATION 2	SEVERITY MEASUREMENT COMMENT
EXPANSION BEARING	STEEL	SLIDING FLAT PLATE	
CONDITION	LOCATION 1	LOCATION 2	SEVERITY MEASUREMENT COMMENT
RUSTING	THROUGHOUT	LOCATION 2	LIGHT COMMENT
ROSTING	THROUGHOUT		LIUITI
BENT-3 LA-15 DEGREES	21 FT 6 IN REINFORCED CONCRETE	MULTIPLE COLUMN	(STEGEC, $05/10/2005$)PROFILE GRADE ELEVATION = 321.0 (FLAT)
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>
ASSOCIATED COMPONENT	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE	
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>
COLUMN	REINFORCED CONCRETE	CAST-IN-PLACE	
CONDITION	LOCATION 1	LOCATION 2	SEVERITY MEASUREMENT COMMENT
SCALING	WATERLINE		MODERATE
FOOTING	REINFORCED CONCRETE	SPREAD	
CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>
EXPANSION BEARING	STEEL	SLIDING FLAT PLATE	
CONDITION	<u>LOCATION 1</u>	LOCATION 2	SEVERITY MEASUREMENT COMMENT
RUSTING	THROUGHOUT	200/1110112	LIGHT COMMENT
KOSTING	HIKOUGHOUI		LIUIII
BENT-4 LA-15 DEGREES	21 FT 6 IN REINFORCED CONCRETE	MULTIPLE COLUMN	(STEGEC, $05/10/2005$)PROFILE GRADE ELEVATION = 321.0 (FLAT)
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>
ASSOCIATED COMPONENT	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	

MODOT

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COU	NTY: RIPLEY	DISTRICT: SE	CLASS: STATBR	FED-I	D: 8892	BRIDGE: S0889
BEAM CAP		REINFORCED CONCRETE	CAST-IN-PLACE			
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	SPALLS	THROUGHOUT		FEW		(SHRUBM1, 03/05/2012)HIGH STEEL SPALLS
COLUMN		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>
	SCALING	WATERLINE		MODERATE		
FOOTING	COMPTENDA	REINFORCED CONCRETE	SPREAD	GEL/EDIMI/	165 (65)5516516	COLGETIVE
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EXPANSION	N BEARING	STEEL	SLIDING FLAT PLATE	GEL/EDIMI/	165 (65)5516516	COLGETIVE
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	RUSTING	THROUGHOUT		LIGHT		
ABUTMENT-5	LA-15 DEGREES	20 FT 2 IN REINFORCED CONCRETE	NON-INTEGRAL	,	/	$GRADE\ ELEVATION = 321.0\ (FLAT)$
1000001177	<u>CONDITION</u>	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	ED COMPONENT	MATERIAL PER PER CONCRETE	<u>CONSTRUCTION</u>			
BEAM CAP		REINFORCED CONCRETE	CAST-IN-PLACE	CELEDITY	ME ACUDEMENT	COMMENT
COLUMBI	<u>CONDITION</u>	<u>LOCATION 1</u>	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
COLUMN	CONDITION	REINFORCED CONCRETE <i>LOCATION 1</i>	CAST-IN-PLACE <i>LOCATION 2</i>	SEVERITY	MEACHDEMENT	COMMENT
FOOTING	CONDITION			<u>SEVERITT</u>	<u>MEASUREMENT</u>	COMMENT
FOOTING	CONDITION	REINFORCED CONCRETE <i>LOCATION 1</i>	SPREAD <i>LOCATION 2</i>	<u>SEVERITY</u>	MEASUREMENT	COMMENT
STRAIGHT		REINFORCED CONCRETE	<u>LOCATION 2</u> CAST-IN-PLACE	<u>SEVERIII</u>	MEASUREMENT	COMMENT
STRAIGHT	CONDITION	REINFORCED CONCRETE LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
BACKWAL		REINFORCED CONCRETE	CAST-IN-PLACE	<u>SEVERITI</u>	MEASUREMENT	COMMENT
BACKWAL	<i>CONDITION</i>	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
FXPANSION	N BEARING	STEEL	SLIDING FLAT PLATE	SE, ERIT	MIDITO REMEDITO	COMMINIATE TO SERVICE
LATANSIO	CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
	RUSTING	THROUGHOUT		HEAVY		
	1102111.0	111113 5 5115 5 1		111111		

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.

VERTICAL CLEARANCE TYPE**

VALUE

DIRECTION

DATE

COMMENT

 $Design_No = S0889$

December 09, 2024 **Missouri Department of Transportation** 7:13:20AM

State Bridge Inspection Report

CLASS: STATBR COUNTY: RIPLEY DISTRICT: SE

FED-ID: 8892

BRIDGE: S0889

DEPARTMENT REPAINT

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

DIRECTION OF TRAFFIC RIGHT LATERAL CLEARANCE # LANES

LEFT LATERAL CLEARANCE

UR-ID

VERTICAL CLEARANCE TYPE**

MODOT

VALUE

DIRECTION

DATE

COMMENT

STRUCTURE PAINT INFORMATION

CONDITION:

POOR

RUST AMOUNT: 6=1.0% OF SURFACE RUSTED

STEEL TONS: 32

ORIGINAL PAINT

CONTRACT REPAINT

PAINT TYPE: S SYSTEM

MANUFACTURE: WATSON

PAINT TYPE: NAME: PAINT COLOR: PAINT TYPE: NAME:

NAME: CAL SULPH/LEAD PAINT

SURFACE PREP:HAND CLEANED

PAINT YEAR: 1933

PAINT COLOR: PAINT YEAR:

PAINT COLOR: GRAY PAINT YEAR: 2008

MILS:

MILS:

MILS: 9

REQUESTED WORK ITEMS

GENERAL WORK COMMENTS:

RESPONSIBILITY DISTRICT ROUTINE **LOCATION** WEST

ITEM

REPLACE POSTING SIGN

CATEGORY POSTING

PRIORITY 2

DATE 01/11/2024

WORK ITEM COMMENT

UTILITY ATTACHMENTS

UTILITY

OWNER

METHOD

MEASUREMENT TYPE

VALUE

NUMBER

UTILITY ATTACHMENT COMMENT

PROGRAM NOTES INFORMATION

YEAR 2027

PROJECT# SE0032

MONTH LET

YEAR LET 2027

ITEMS REPLACE BRIDGE **COMMENT**

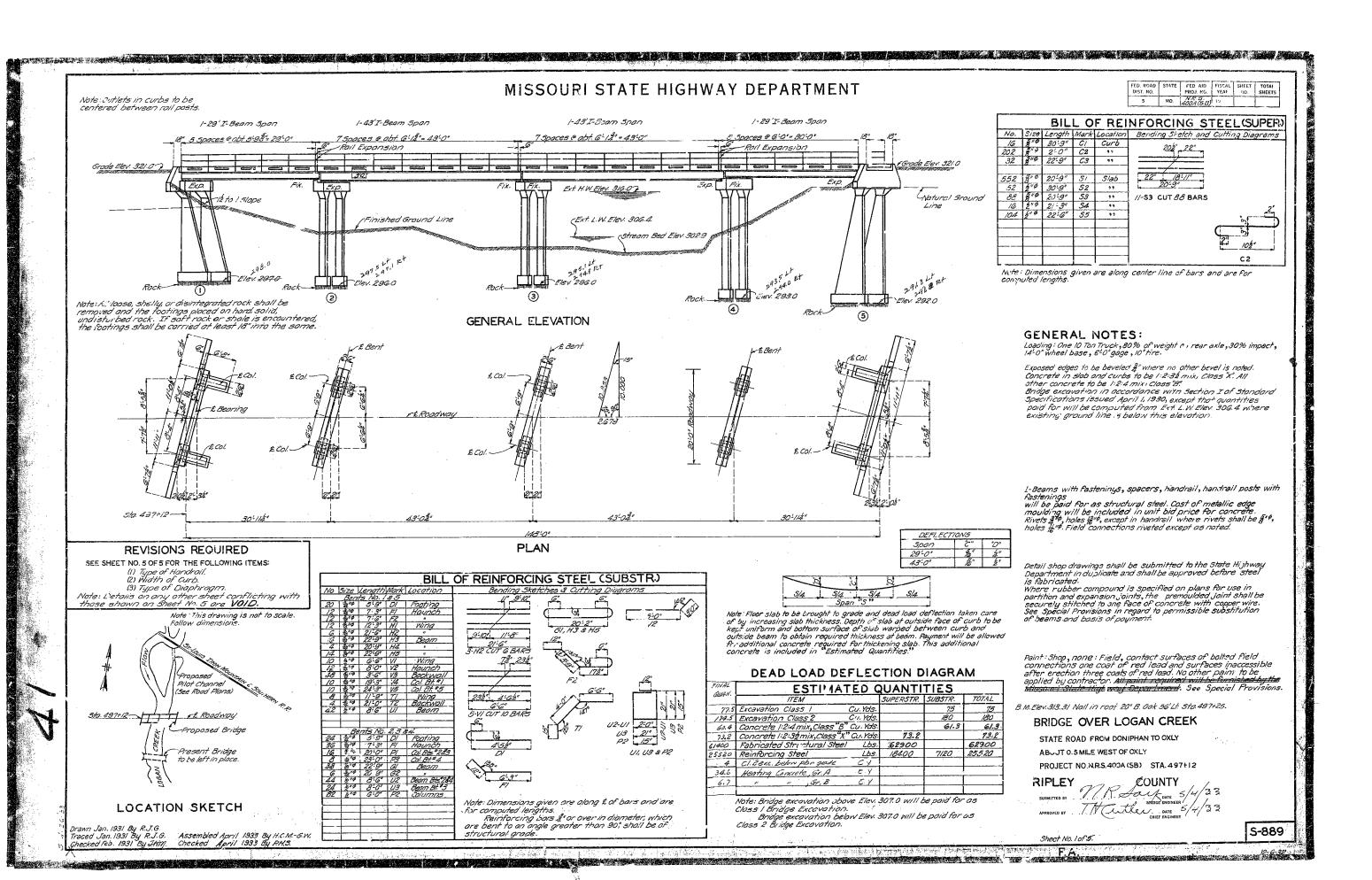
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December 09, 2024 7:13:20AM

COUNTY: RIPLEY DISTRICT: SE CLASS: STATBR FED-ID: 8892 BRIDGE: S0889

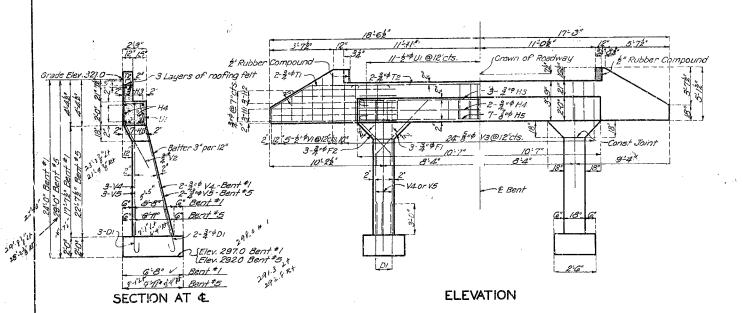
COUNTY: RIPI	LEY DISTRICT: SE	CLASS: STATBR	FED-1D: 8892	BRIDGE: S0889		
COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS				***ADVANCED S	IGN INFORMATION*	**
NOTE: The items listed in this section are	updated whenever computer edits are ran on a struct	are after the inspection updates have been entered in to TMS	SIGN#	SIGN TYPE	PROBLEM	PROBLEM DIRECTION
Rated Item	<u>Rating</u>	Rating Date	1			
[Item 67] Structure Evaluation Rating:	4-MEETS MINIMUM TOLERABLE	1/20/2017				
[Item 68] Deck Geometry Rating:	2-BASICALLY INTOLRBLE REQ	5/18/2001				
[Item 69] Underclearance:	N-NOT APPLICABLE	5/18/2001				
Sufficiency Rating:	28.2%	3/6/2024				
Deficiency:	STRUCTURAL	1/31/2022				
Funding Eligibility:				***OUTFALL INSPE	CTION INFORMATIO	N***
Estimated New Structure Length:						
Estimated Structure Cost:			# OUTFALLS:	INSF	PECTOR:	
Estimated Total Project Cost:			STATUS:		DATE:	
Year of Cost Estimate:			NOTES:			
NOTE: The above structure length and cost estimates are computer generated using algorithms in the TMS system. These algorithms are						
generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per						
square foot. The actual structure size and co	sst may vary significantly from these numbers once si	te specific engineering is done.				

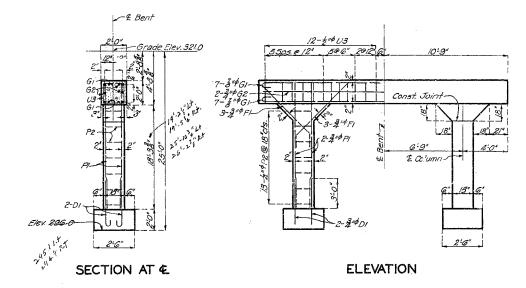


MISSOURI STATE HIGHWAY DEPARTMENT

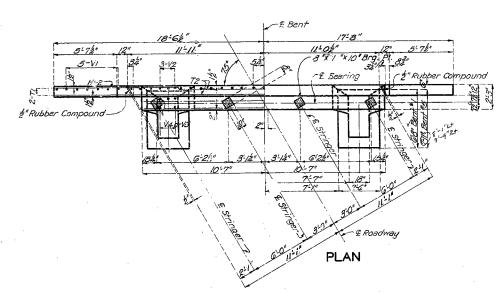
FED. ROAD	STATE	FED. AID	Ficari	SHEET	TOTAL
DIST. NO.		PROJ. NO.	TE.	NO.	SHEETS

5	MO.	NR540QA	19		
·		(58)) !

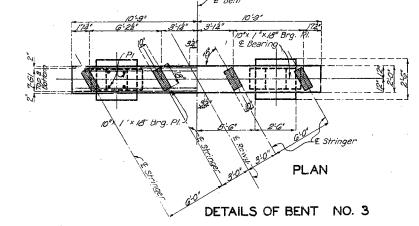




Nate! This drawing is not to scale. Follow dimensions.



DETAILS OF END BENTS NO. 1 & 5



BRIDGE OVER LOGAN CREEK

TE ROAD FROM DONIPHAN TO OXLY ABOUT 0.5 MILE WEST OF OXLY PROJECT NO. NRS 400A (SB) STA. 497+12 COUNTY

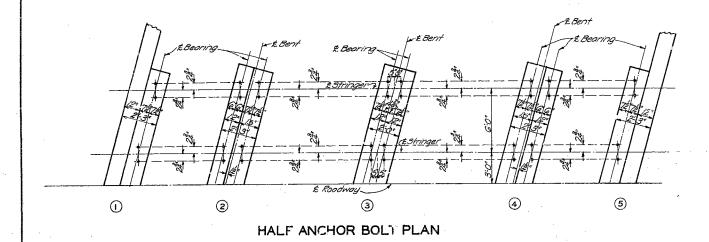
RIPLEY

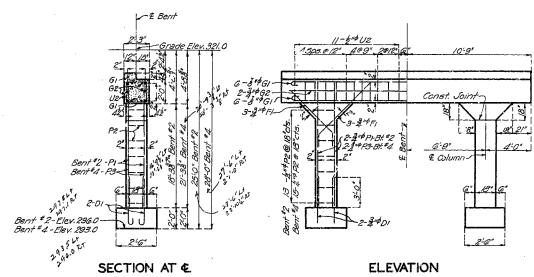
Drown Sept 1930 by I.B. Traced Sept 1930 by G.W. & R.J.G. Assembled April 1933 by H.C.M.-G.W.

S-889

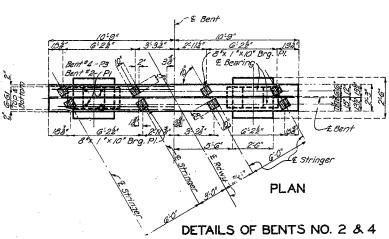
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL Y'IR	SHEET KO.	TOTAL
5	MO.	NRS 400A	16		



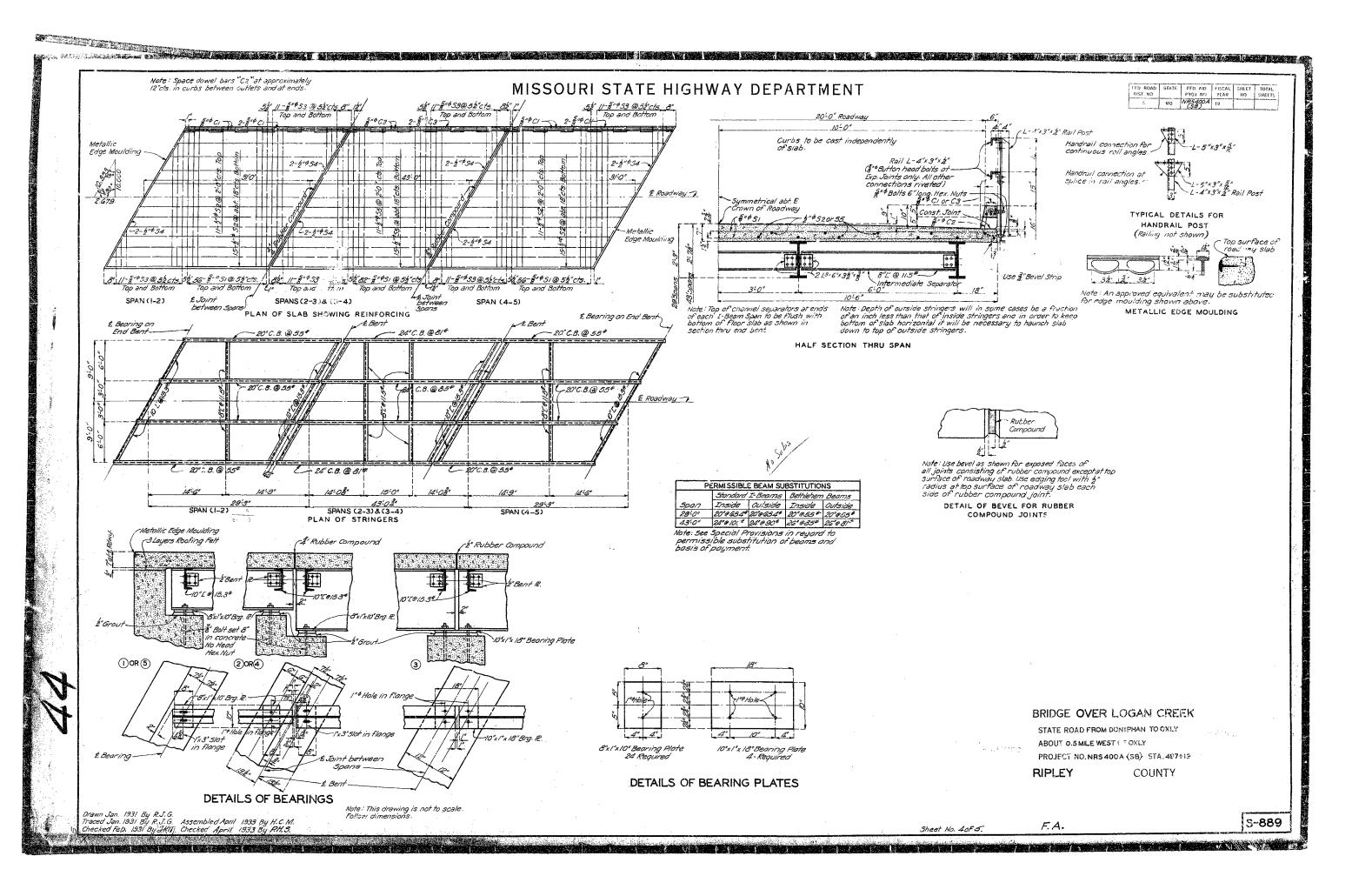


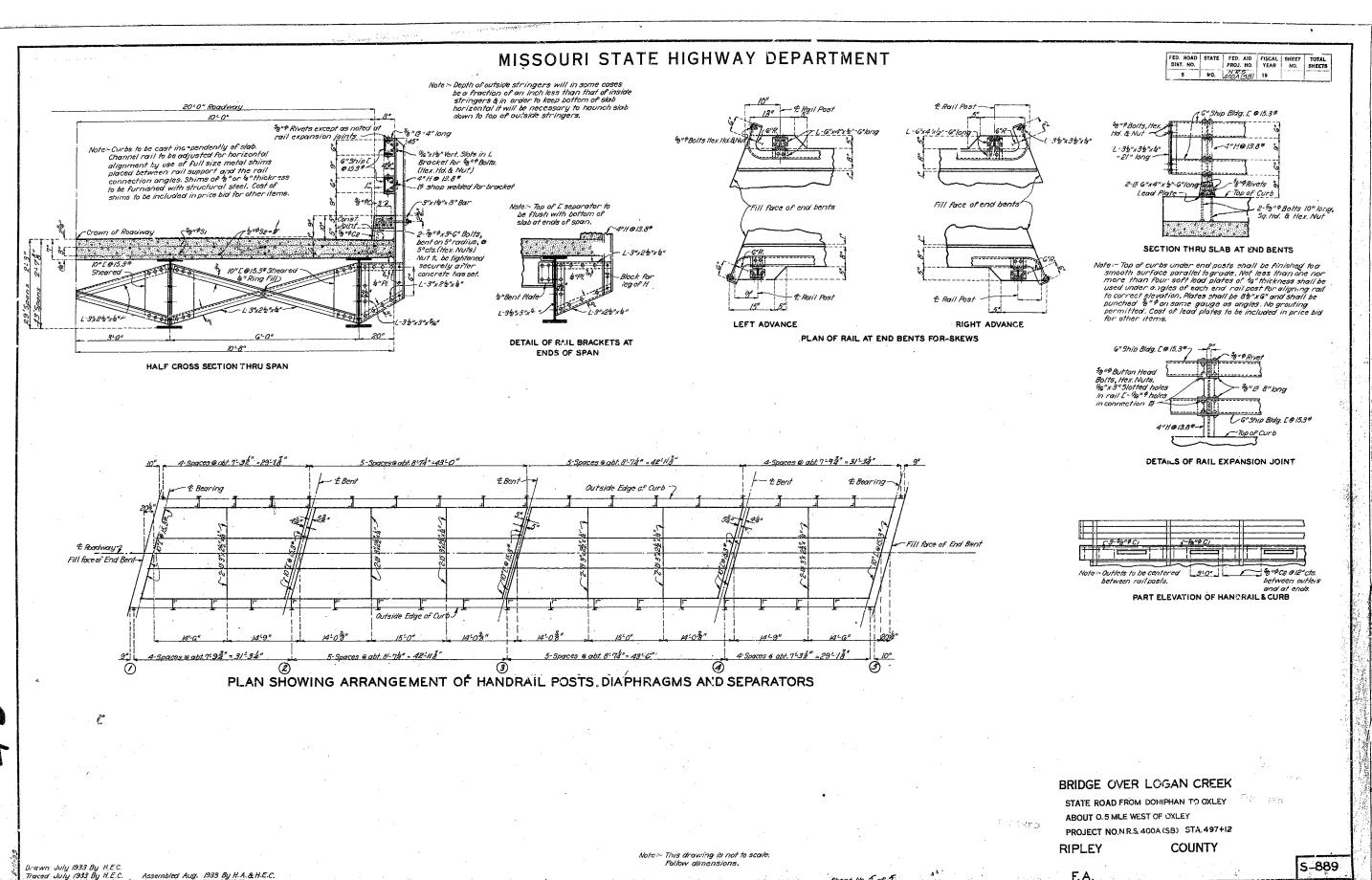
Note: This drawing is not to scale. Follow dimensions.



BRIDGE OVER LOGAN REEK

STATE ROAD FROM DONIPHAN TO OXLY ABOUT 0.5 MILE WEST OF OXLY PROJECT NO. NRS 400 A (SB) STA. 497+12 RIPLEY COUNTY





Drawn July 1933 By H.E.C. Traced July 1933 By H.E.C.

Assembled Aug. 1933 By H.A.& H.E.C. Checked Aug. 1933 By FRAS.

TRAVIS S. STUMP NUMBER PE-2010000870 INSOIONAL EN

> DATE PREPARED 8/9/2016

> > RIPLEY

J9S3171

CONTRACT ID.

PROJECT NO.

S08891

MΩ SHEET NO

1

142

BR

$19'-9\frac{1}{2}'' \pm Roadway Width$ -For details of post and Thrie beam, Temporary Traffic Control Device (Rdwy. Item) -€ Structure For details of post and Thrie beam, see Sheets No. 3 & 4. see Sheets No. 3 & 4. ' Asphalt Overlay (Roadway Item)

SECTION THUR SLAB

General Notes:

Design Specifications:

2002 - AASHTO (17th Edition) Standard Specifications Load Factor Design

Bridge Deck Rating = 6 Traffic Control:

Traffic over structure to be maintained during construction (See Roadway Traffic Control Plans).

Miscellaneous:

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

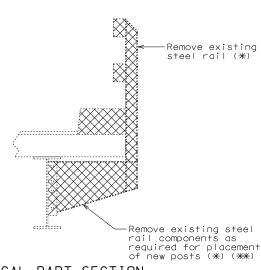
The area exposed by the removal of concrete and not covered with new concrete or asphalt shall be coated with an approved qualified special mortar in accordance with

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

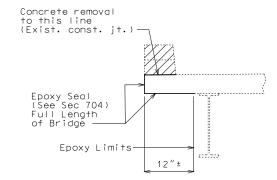
- (*) Payment for removal of existing brush curbs, steel rail and its components will be considered completely covered by the contract unit price for Removal of Existing Curb and Rail per
- (***) After removal of steel rail components, H.S. Bolts shall be installed in existing holes. See Special Provisions for Rivet Removal and Replacement except that the cost of all work and materials to complete this item will be considered completely covered by the contract unit price for Removal of Existing Curb and Rail

The surface of existing I-Beam exposed by removal of existing steel rail components shall be coated with one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1045. Payment for gray epoxy-mastic primer, material and labor, will be considered completely covered by the contract unit price for

Temporary Barrier shall not be attached to the bridge.



TYPICAL PART SECTION SHOWINING STEEL POST AND RAIL COMPONENTS REMOVAL



TYPICAL PART SECTION THRU SLAB SHOWING AREA
OF CONCRETE CURB REMOVAL AND EPOXY SEAL LIMITS

Estimated Quantities		Total
Removal of Existing Curb and Rail	linear foot	296
Clean and Epoxy Seal	sq. foot	444
Bridge Guardrail (Thrie Beam)	linear foot	288

ROUTE 142 FROM RTE. N TO RTE. T ABOUT 1 MILE EAST OF RTE. N STA. 497+12.00 ± (MATCH EXISTING)

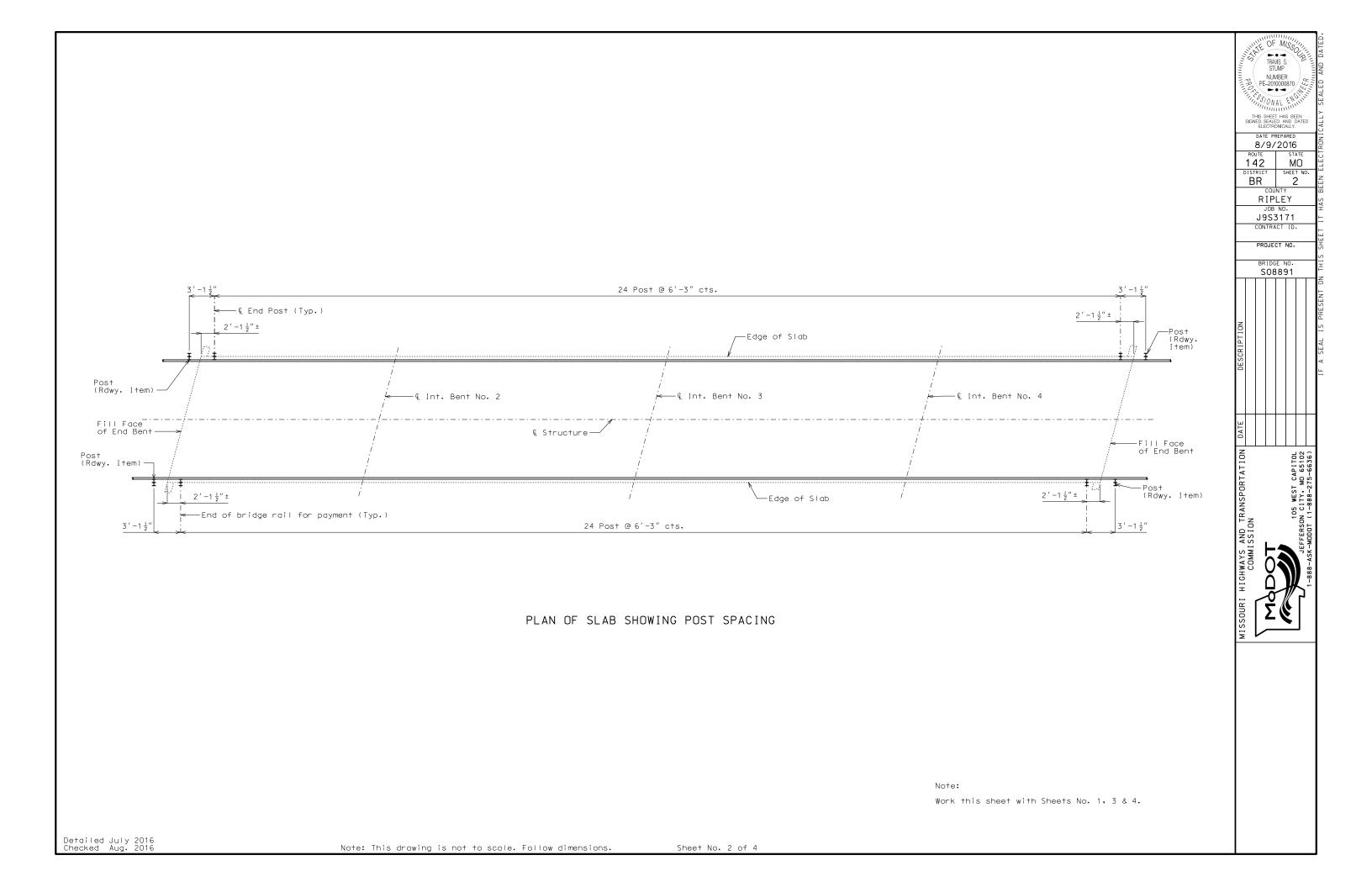
STD. 606.23 STD. 617.10

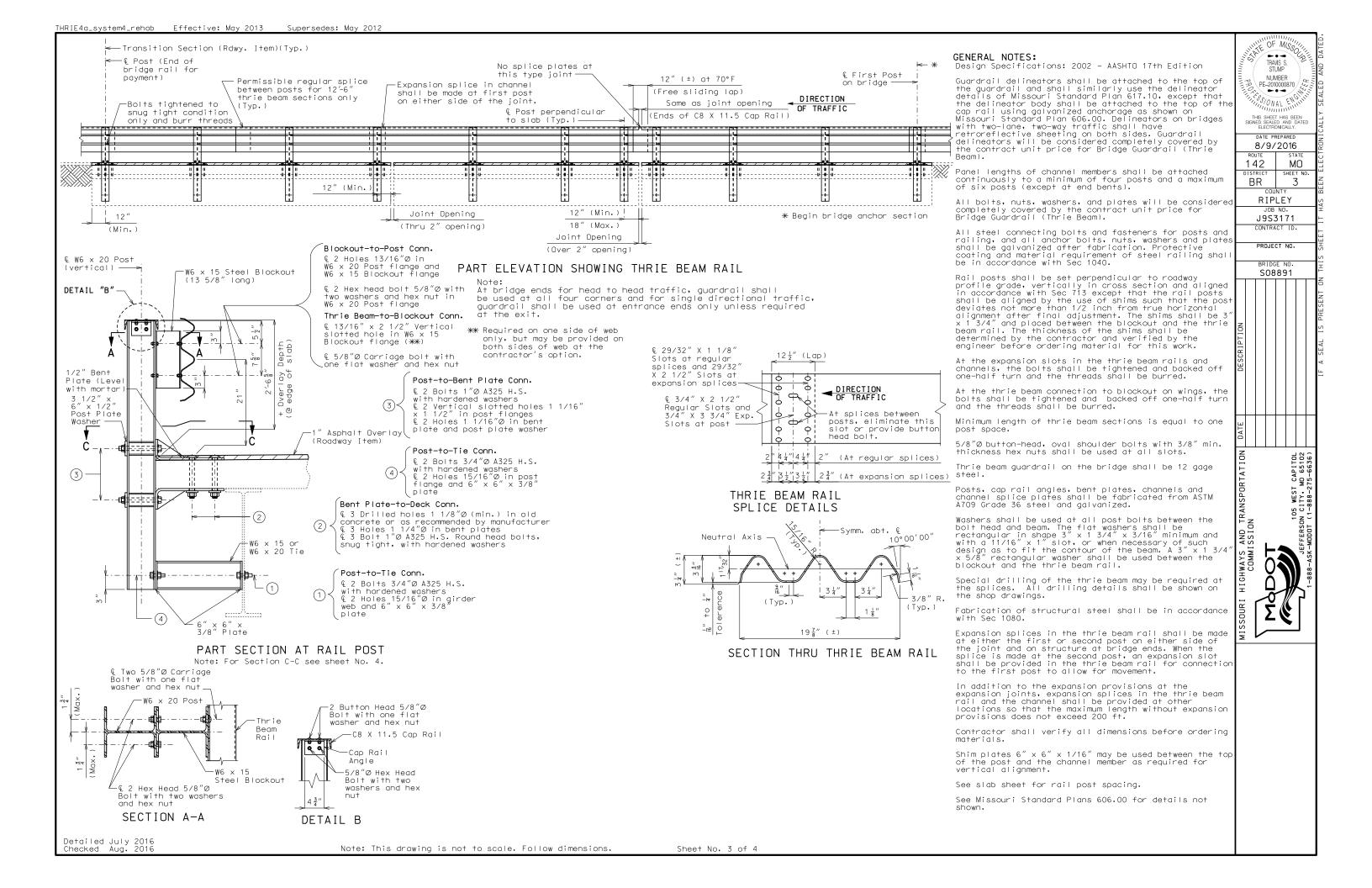
REPAIRS TO BRIDGE OVER LOGAN CREE	K	
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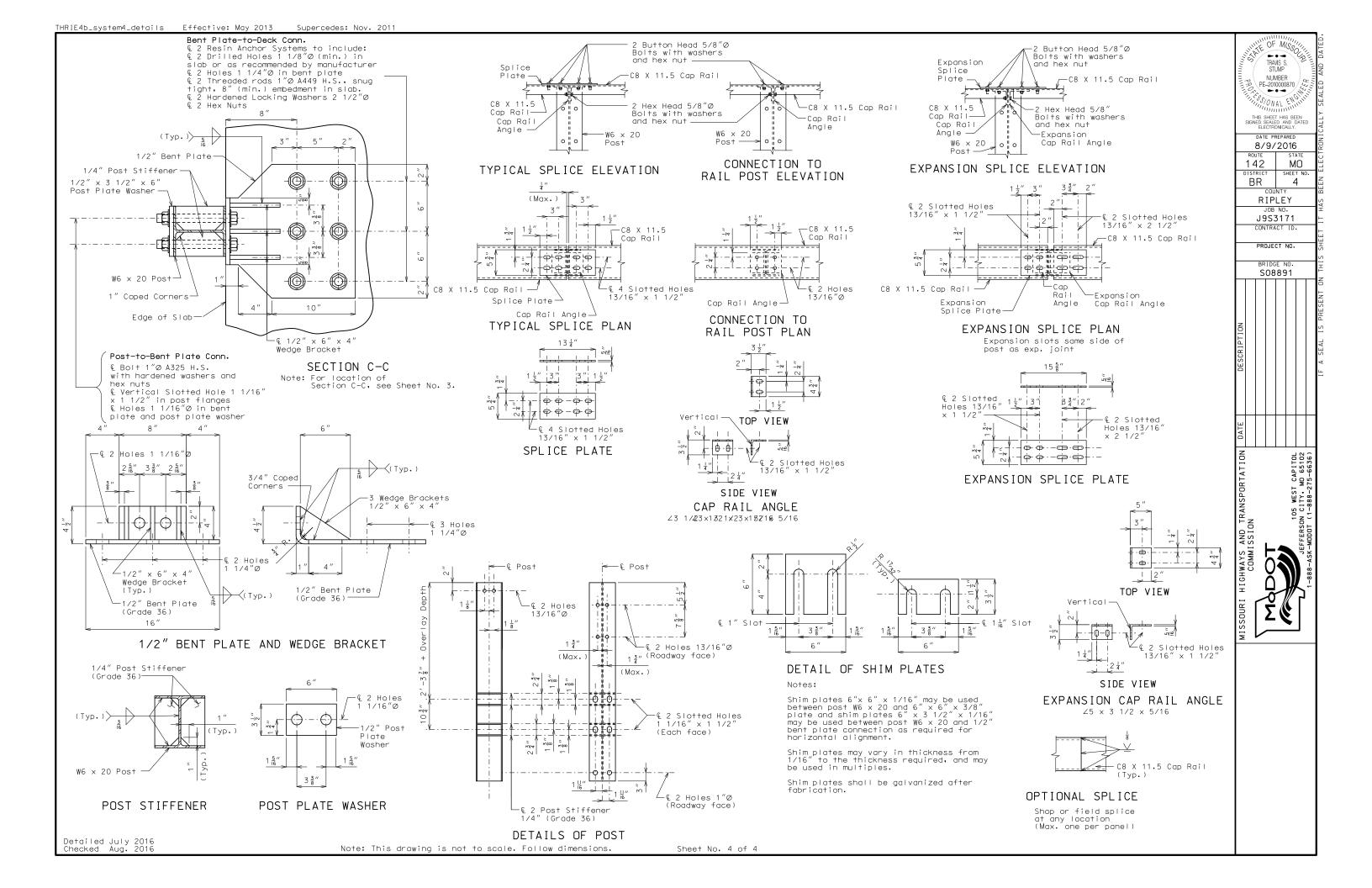
Detailed July 2016 Checked Aug. 2016

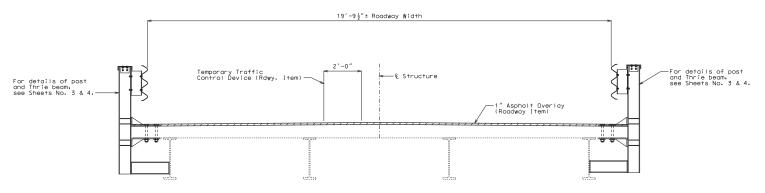
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 4









SECTION THUR SLAB

General Notes:

Design Specifications: 2002 - AASHTO (17th Edition) Standard Specifications Load Factor Design Bridge Deck Rating = 6

Traffic Control: Traffic over structure to be maintained during construction (See Roadway Traffic Control Plans).

Miscellaneous:

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

The area exposed by the removal of concrete and not covered with new concrete or asphalt shall be coated with an approved qualified special mortar in accordance with Sec 704.

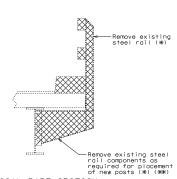
Contractor shall verify all dimensions in field before ordering new material.

(*) Payment for removal of existing brush curbs. steel rail and its components will be considered completely covered by the contract unit price for Removal of Existing Curb and Rail per linear foot.

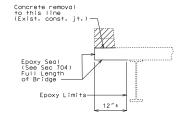
(***) After removal of steel rail components, H.S. Bolts shall be installed in existing holes. See Special Provisions for Rivet Removal and Replacement except that the cost of all work and materials to complete this item will be considered completely covered by the contract unit price for Removal of Existing Curb and Rail.

The surface of existing I-Beam exposed by removal of existing steel rail components shall be coated with one coat of gray epoxy-mastic primer inon-aluminum) in accordance with Sec 1045. Payment for gray epoxy-mastic primer, material and labor. Will be considered completely covered by the contract unit price for other items.

Temporary Barrier shall not be attached to the bridge.



TYPICAL PART SECTION SHOWINING STEEL POST AND RAIL COMPONENTS REMOVAL



TYPICAL PART SECTION THRU SLAB SHOWING AREA OF CONCRETE CURB REMOVAL AND EPOXY SEAL LIMITS

Estimated Quantities		Total
Removal of Existing Curb and Rail	linear foot	296
Clean and Epoxy Seal	sq. foot	444
Bridge Guardrail (Thrie Beam)	linear foot	288

REPAIRS TO BRIDGE OVER LOGAN CREEK

ROUTE 142 FROM RTE. N TO RTE. T ABOUT 1 MILE EAST OF RTE. N

STA. 497+12.00 ± (MATCH EXISTING)

STD: 606:23 STD. 617.10 TRAVIS S. STUMP NUMBER

DATE PREPARED 8/9/2016 142 MΩ

COUNTY

RIPLEY

JOB NO. J9S3171 CONTRACT ID 161118-H07

PROJECT NO. BRIDGE NO. 508891

1

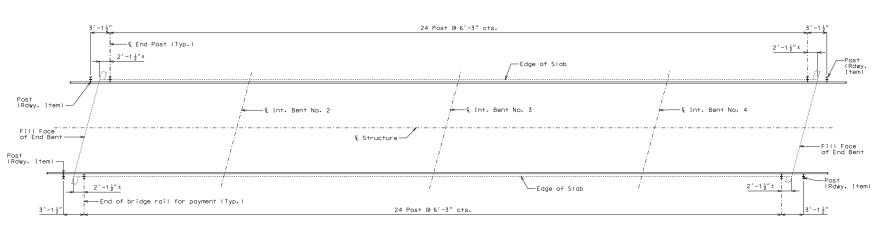
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WEST TY: N FERSON CI

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Detailed July 2016 Checked Aug. 2016





PLAN OF SLAB SHOWING POST SPACING

Note

Work this sheet with Sheets No. 1, 3 & 4.

Detailed July 2016 Checked Aug. 2016

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

Sheet No. 2 of 4



