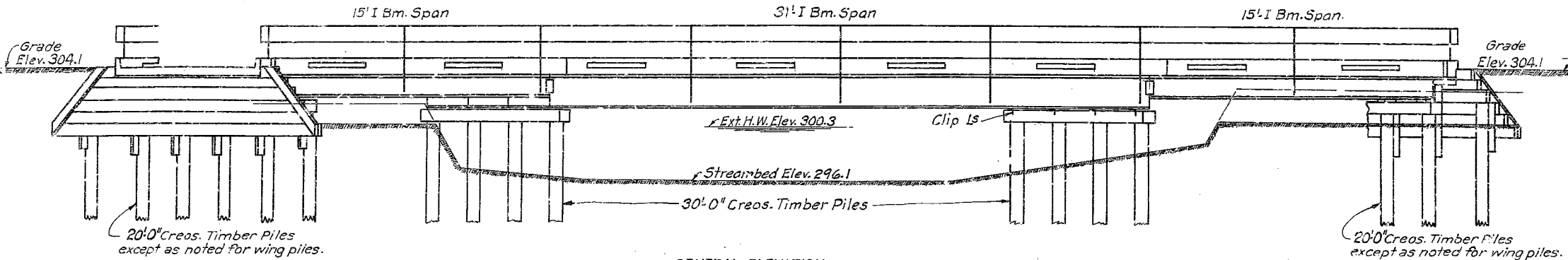


# MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	W-355	1935	19	20

Note: Outlets in curbs to be centered between railposts.



GENERAL ELEVATION

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE					
No.	Size	Length	Mark	Location	Bending Sketch and Cutting Diagram
16	3"	16'-0"	C1	Curb	<p>15' 2 3/8"</p> <p>2' 3 3/8" 19' 11 3/8"</p> <p>22' 3"</p> <p>15 S3 CUT 90 BARS</p> <p>10' 2"</p> <p>C2</p>
80	3"	2'-0"	C2	"	
8	3"	30'-9"	C3	"	
178	3"	2'-0"	S1	Slab	
52	3"	16'-0"	S2	"	
90	3"	22'-3"	S3	"	
12	3"	22'-3"	S4	"	
26	3"	30'-9"	S5	"	

Note: Dimensions given are along centerline of bars and are for computed lengths.

## GENERAL NOTES:

Exposed ends to be beveled 3" where no other bevel is noted. Bar supports and spacers will be required for reinforcing steel in superstructure. See Std. C-110R and Special Provisions.

All concrete to be ~~Class "B"~~ Class "X".

All timber shall be creosoted and shall be either "Dense Longleaf or Shortleaf Structural Square Edge and Sound Southern Yellow Pine" or "Close-Grained Select Structural Douglas Fir" of the West Coast Region. All timber shall be rough full-sawn except as noted in timber bill for pile caps. Slight variations in sawing shall be in accordance with grading rules. All timber shall be cut to billed lengths and shapes and shall be bored as shown before treating. All backing planks are billed 6" long and are to be re-cut and fitted in the field.

Payment will be based on quantities of material in finished structure. Field holes for drift pins shall be field bored 3/8". Unless otherwise noted, all other field holes in timber shall be field bored 3/4".

When bolts with countersunk heads are indicated on plans, cut washers shall be used under heads. 3/8" washers shall be used under heads of all other bolts and under nuts of all bolts.

Cost of substructure hardware to be included in price bid for timber in place. I-Beams with fastenings, spacers, handrail, handrail posts with fastenings, clip angles, and cap plate on end bents with fastenings, will be paid for as structural steel.

Cost of metallic edge moulding will be included in price bid for concrete. Detail shop drawings shall be submitted to the State Highway Department in duplicate and shall be approved before steel is fabricated. Where rubber compound is specified on plans for use in partition and expansion joints, the pre-moulded joint shall be securely stitched to one face of concrete with copper wire.

Paint: Shop, none; Field, contact surfaces of bolted field connections and coat red lead and surfaces inaccessible after erection three coats of red lead. No other paint to be applied by contractor. Red lead required shall be furnished by the contractor. See Special Provisions.

Special Provisions in regard to protection of bridge and

ends of piers:

Protection caps to be placed on heads of all piles of pile bents in accordance with Section 23-6 of Standard Specifications issued April 1, 1930. Rivets 3/4", holes 1 1/8", except in handrail where rivets shall be 5/8", holes 1/2". Field connections for handrail channels shall be 5/8" button head bolts and for connection of rail to railposts shall be 5/8" bolts, holes 1/2". All other field connections riveted except as noted. All concrete shall be proportioned by the weight proportioning method. See Special Provisions.

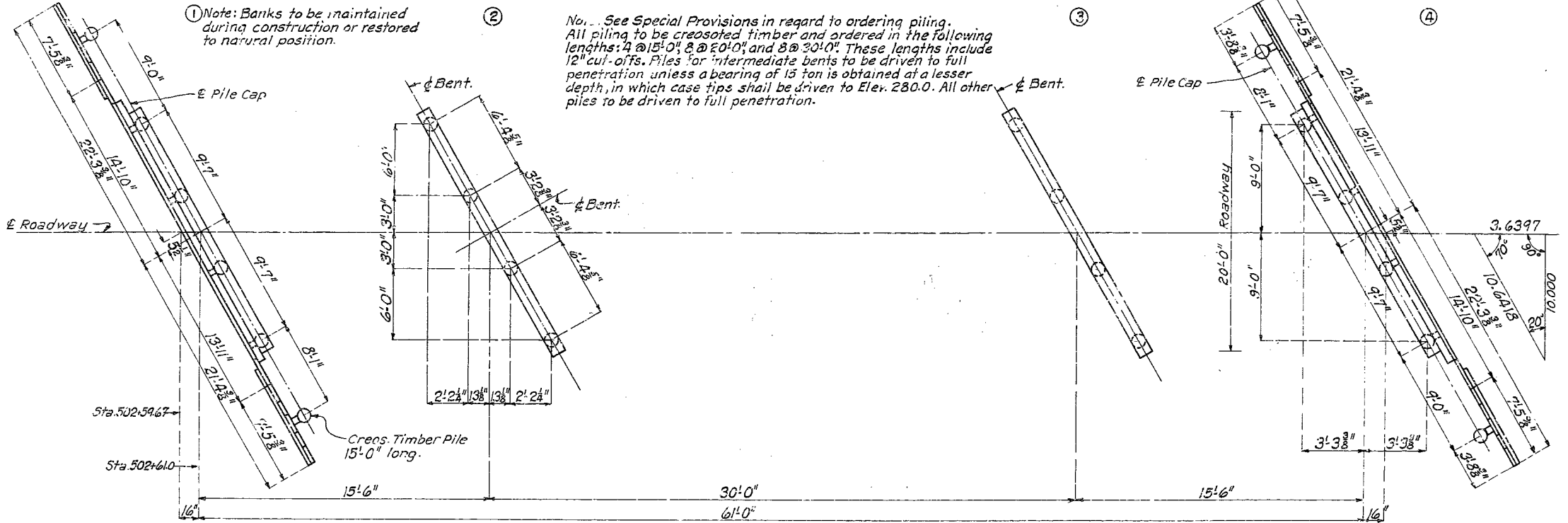
Bridge excavation will be allowed for all bents within horizontal limits shown and noted on these design plans, sheet #2. This excavation will be computed from existing ground line to bottom end of 6"x6" backing supports for end bents and to bottom of sway bracing for interior bents. Design Spec. A.A.S.H.O. - Loading H-10 A.A.S.H.O.

Structural Steel Stress 16,000 psi Single Line.

Reinforcing Steel Stress 16,000 psi Single Line.

Concrete Class "X" 750 psi

Creosoted Timber 1600 psi

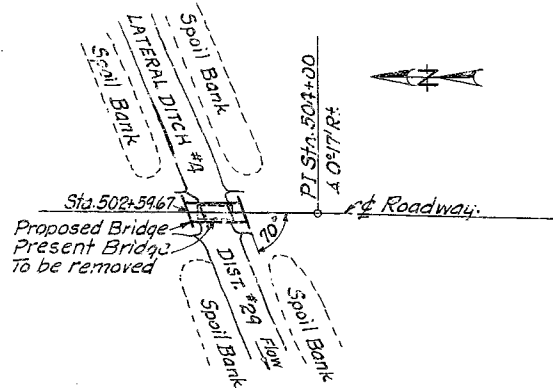


PLAN

ESTIMATED QUANTITIES				FINAL QUANTITIES
ITEM	SUPERSTR.	SUBSTR.	TOT'L	
Excavation Class 1 Cu. Yds.	---	90	90	47.5
Excavation Class 2 Cu. Yds.	---	---	---	---
Concrete <del>Class "B"</del> Class "X" Cu. Yds.	30.6	---	30.6	30.6
Fabricated Structural Steel Lbs.	21700	---	21700	21740
Reinforcing Steel Lbs.	7950	---	7950	7950
Creosoted Timber Piles Lin. Ft.	---	440	440	444
Creos. Timber Pile Cut-offs Lin. Ft.	---	20	20	21
Creosoted Timber FBM	---	2630	2630	2630
Temporary Bridge Lin. Ft.	---	---	---	40
Removal of Old Bridge	---	---	---	---
Lump Sum				1

Note: All bridge excavation will be paid for as Class 1 Bridge Excavation.

Old roadway fill under ends of bridge shall be excavated to a depth of 2'-0" below bottom of beams within the maximum horizontal limits of 4'-0" outside of curb lines and will be paid for at unit price bid for roadway excavation.



LOCATION SKETCH

## BRIDGE OVER LATERAL NO. 4 DIST NO. 29

STATE ROAD FROM WYATT TO ROUTE 55  
ABOUT 3.0 MILES SOUTH OF DEVENTER  
PROJECT NO. W-55560A (SE) STA. 502 + 59.67

## MISSISSIPPI COUNTY

SUBMITTED BY *T.H. Carter* DATE 10/18/35  
APPROVED BY *T.H. Carter* DATE 10/18/35  
BRIDGE ENGINEER  
CHIEF ENGINEER

STD. C110R

T-542

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

Sheet No. 1 of 3.

F.A.

NO CONSTRUCTION CHANGES

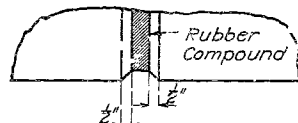
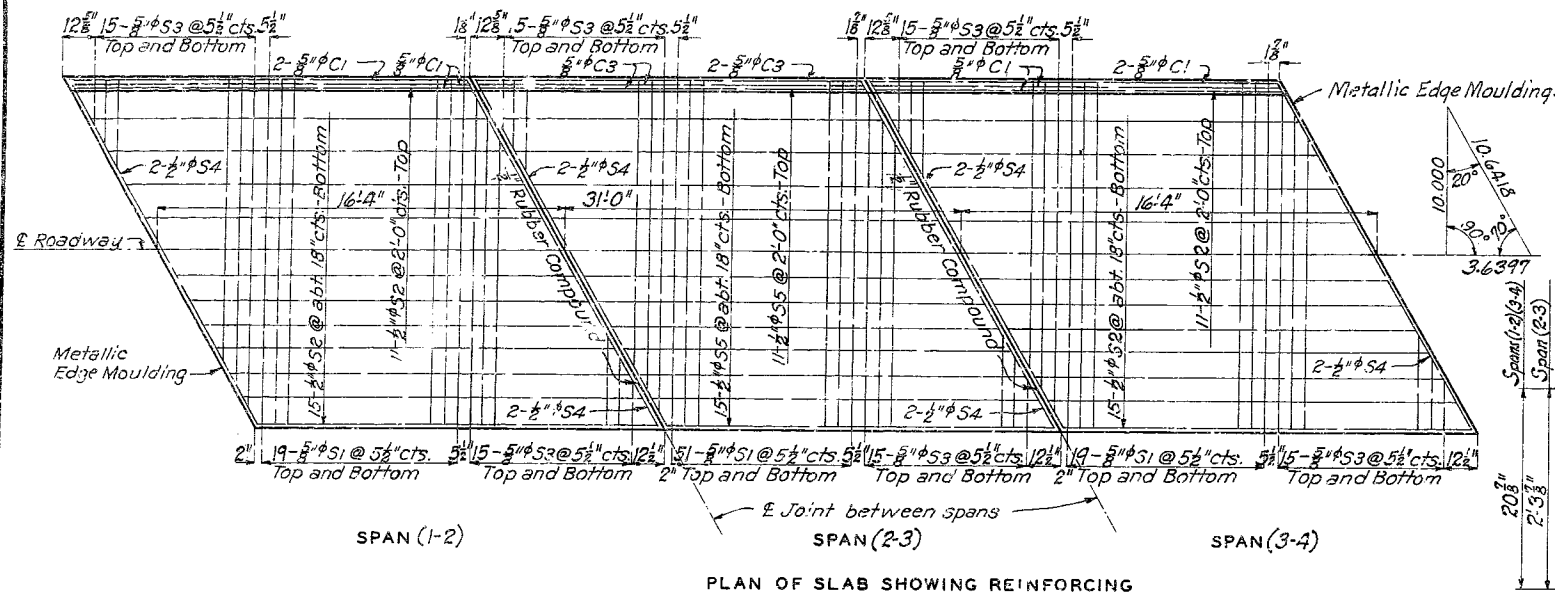
FINAL 70+5.34

Drawn Aug. 1933 By R.J.G.  
Traced Aug. 1933 By R.J.G.  
Checked Aug. 1933 By N.W.R.  
Assembled Dec. 1934 By T.A.M.  
Checked Dec. 1934 By R.H.S.

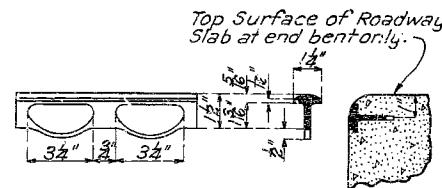
# MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	2504 (SE)	19		

Note: Space dowel bars "C2" at approximately 12" cts. in curbs between outlets and at ends.



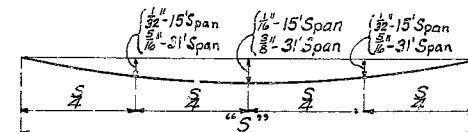
Note: Use bevel as shown for exposed faces of all joints consisting of rubber compound except at top surface of roadway slab. Use edging tool with 2" radius at top surface of roadway slab each side of rubber compound joint.



METALLIC EDGE Moulding

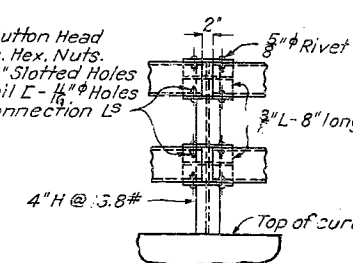
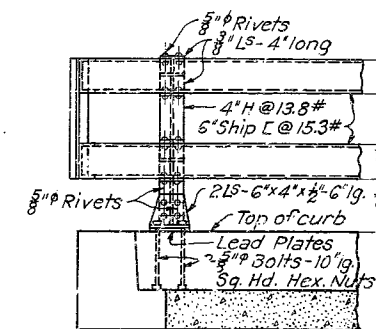
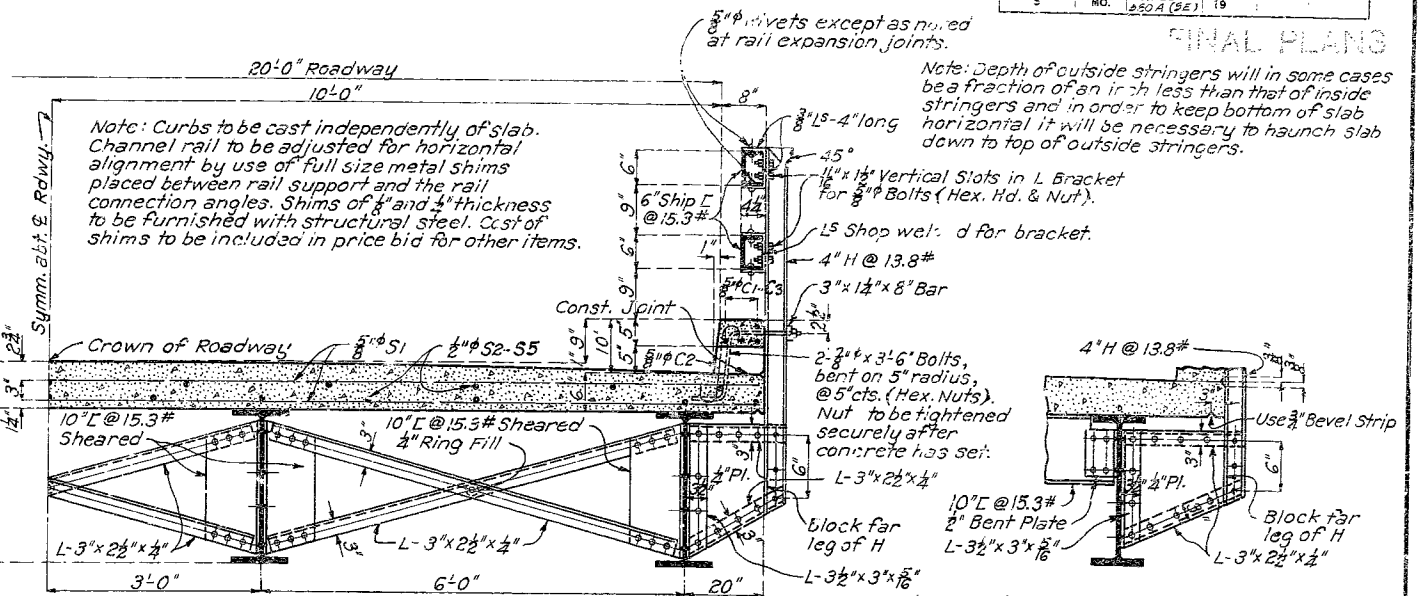
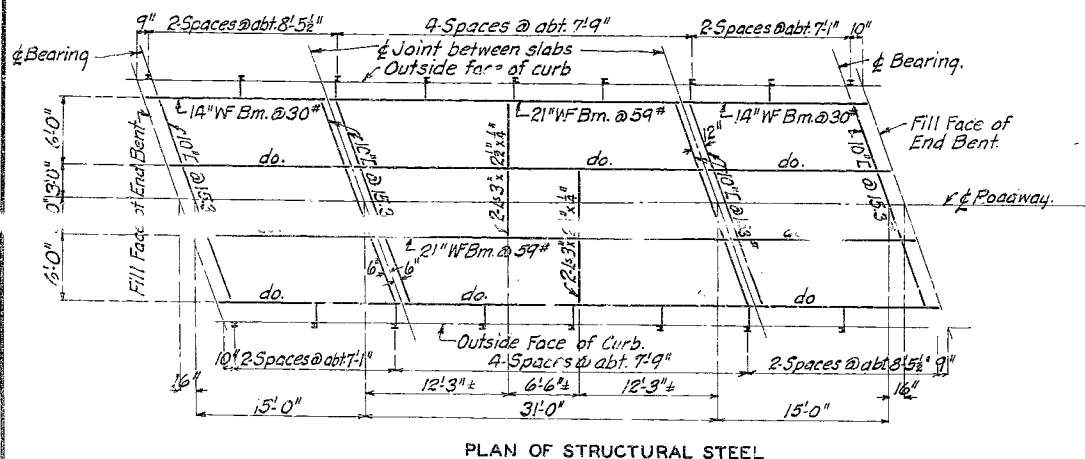
Note: An approved equivalent may be substituted for edge moulding shown above.

Note: Top of curbs under end posts shall be finished to a smooth surface parallel to grade. Not less than one nor more than four soft lead plates of 1/8" thickness shall be used under angles of each end rail post for aligning rail to correct elevation. Plates shall be 8 1/2" x 6" and shall be punched 3/8" on same gauge as the angles. No grouting permitted. Cost of lead plates to be included in price bid for other items.



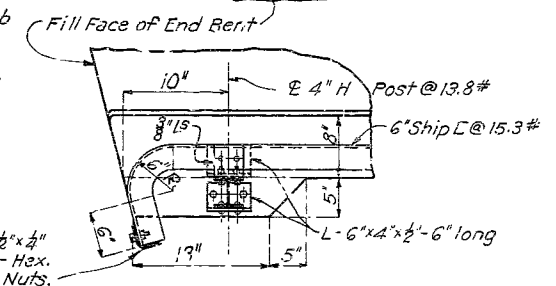
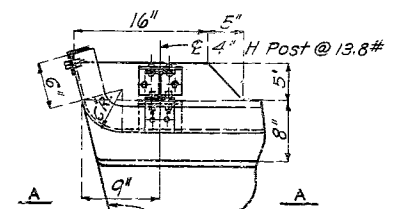
Note: Floor slab to be brought to grade and dead load deflection taken care of by increasing slab thickness. Depth of slab at outside face of curb to be kept uniform and bottom surface of slab warped between curb and outside beam to obtain required thickness at beam. Payment will be allowed for additional concrete required for thickening slab. This additional concrete is included in "Estimated Quantities".

DEFLECTION DIAGRAM



Note: Use similar detail at rail splices except omit slotted holes and 2" expansion gap.

DETAIL OF RAIL BRACKETS AT ENDS OF SPAN



TYPICAL PART ELEVATION SHOWING CURB DETAILS  
BRIDGE OVER LATERAL NO. 4 DIST. NO. 29

STATE ROAD FROM WYATT TO ROUTE 55  
ABOUT 3.0 MILES SOUTH OF DEVENTER  
PROJECT NO. WP55560A (SE) STA. 502 + 59.67

MISSISSIPPI COUNTY

Drawn Aug. 1933 By R.J.G.  
Traced Aug. 1933 By R.J.G. Assembled Dec. 1933 By T.A.M.  
Checked Aug. 1933 By M.R.R. Checked Dec. 1933 By R.H.S.

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

Sheet No. 2 of 3.

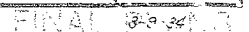
FA.

NO CONSTRUCTION CHANGES

T-542

FINAL PLAN

FINAL PLAN



GENERAL NOTES:

Design Specifications:

2002 - AASHTO 17th Edition  
Load Factor Design

Traffic Handling:

Maintain one lane of traffic over structure during construction.

Old Work:

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

Verify Dimensions:

Contractor shall verify all dimensions in field before ordering material.

Existing Rail Modification:

Existing holes in the 4"H @ 13.8# posts that are to be reused shall be bored out to 13/16"Ø to accommodate the new 3/4"Ø Bolts.

The cost of removal of existing channels, mounting angles, rivets and existing rail post modifications will be considered completely covered by the contract unit price for "Partial Removal of Bridge Railing".

No shop drawings will be required.

New Structural Tubing:

Fabrication of structural steel shall be in accordance with Sec 712 & 1080.

Hollow structural sections shall be in accordance with ASTM designation A 500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F, see Sec 712.2 for reporting.

All other steel shapes and plates shall be in accordance with AASHTO M 270, Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws, and nuts shall be in accordance with ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.

The 3/4"Ø bolts used to connect the 10 x 4 x 1/4 structural tubing to the existing post shall be tightened in accordance with Sec 712.

The cost of furnishing and installing structural tubing, delineators and necessary hardware will be considered completely covered by the contract unit price for "Bridge Rail (Single Tube Structural Steel)".

Miscellaneous:

All Button-head bolts shall be installed with the shank end away from the roadway face of the rail.

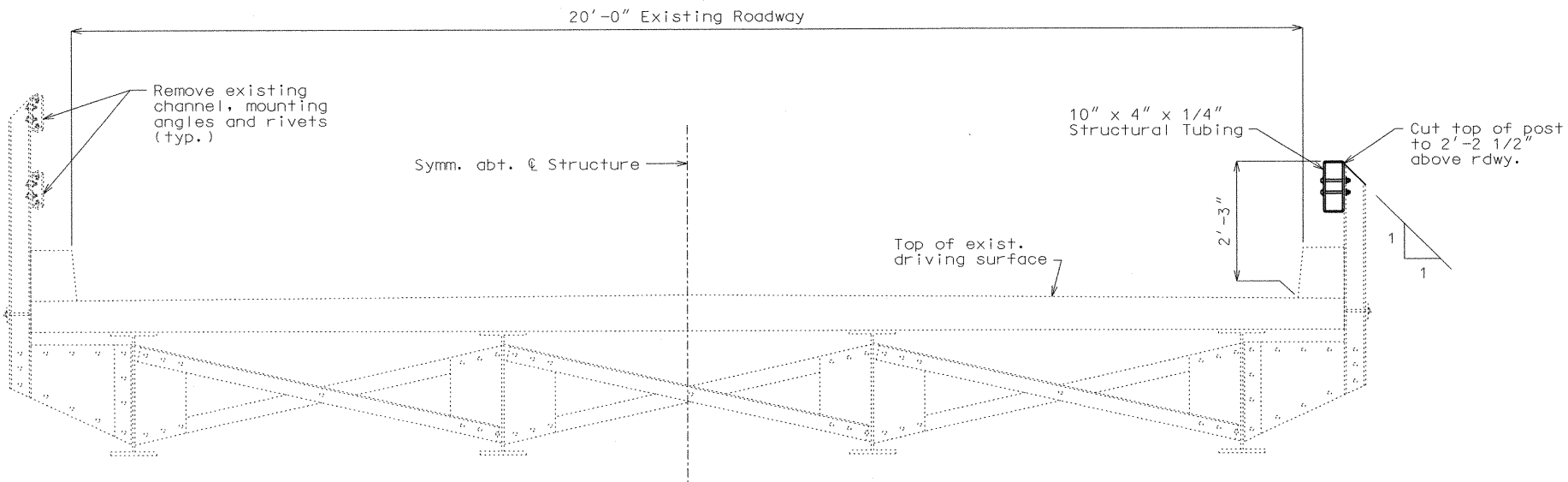
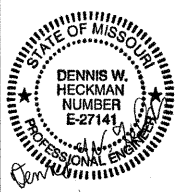
The 10x4x1/4 Structural Tubing shall be fabricated in one section, except at the expansion locations as shown on sheet no. 2 or when the structural tubing length is over 40 feet.

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

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

U.I.P. EXISTING 15'-31'-15' I-BEAM SPANS

ROUTE 77	STATE MO	DISTRICT BR	SHEET NO. B1
JOB NO. J0P0937			
CONTRACT ID			
PROJECT NO.			
COUNTY MISSISSIPPI			
DATE 3/15/07			
SEC/SUR 28	TWP 25	N	RGE 17 E



HALF SECTION SHOWING EXISTING STRUCTURE

HALF SECTION SHOWING PROPOSED STRUCTURE

TYPICAL SECTION THRU SLAB

ESTIMATED QUANTITIES		
Item		Total
Partial Removal of Bridge Railing	lin. ft.	128
Bridge Rail (Single Tube Structural Steel)	lin. ft.	128

REPAIRS TO BRIDGE OVER LATERAL NO. 4  
DISTRICT NO. 29

STATE ROAD FROM RTE. 80 TO RTE. FF  
ABOUT 0.3 MILES NORTH OF RTE. 80  
PROJECT NO. STA. 502+59.67±  
JOB NO. J0P0937 RTE. 77

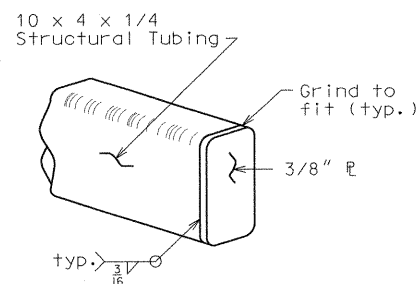
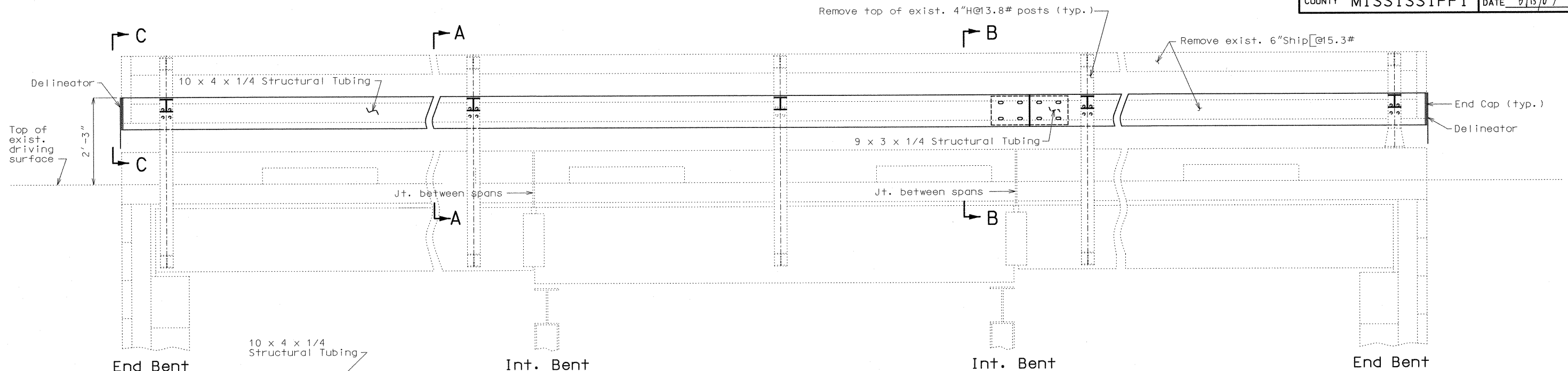
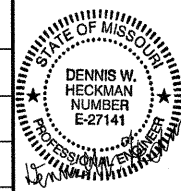
Designed Jan. 2007  
Detailed Jan. 2007  
Checked Feb. 2007

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

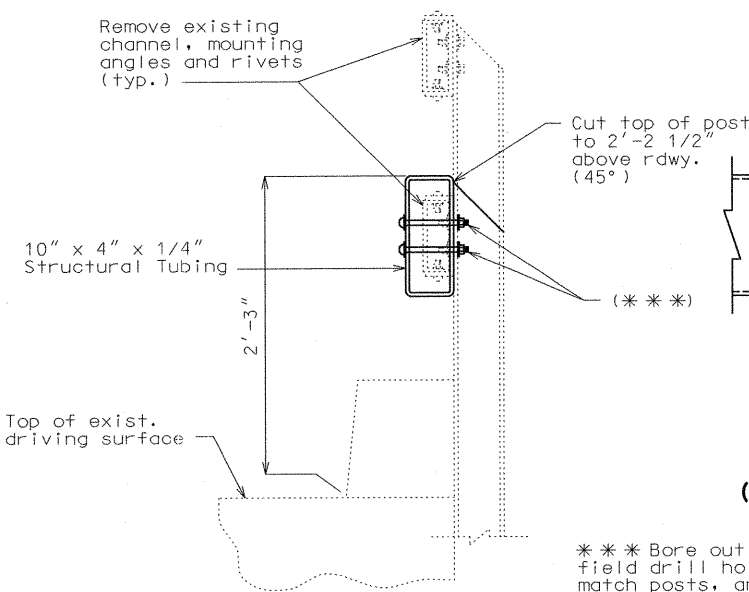
7  
Sheet No. 1 of 2

Date: / /  
T05421  
REV.

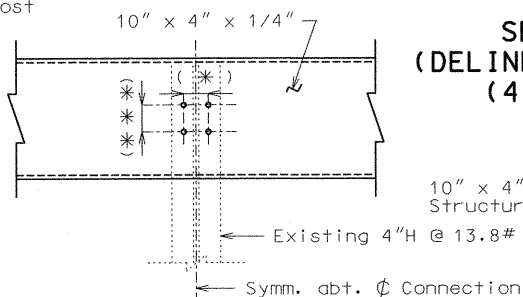
ROUTE 77	STATE MO	DISTRICT BR	SHEET NO. B2
JOB NO. JOP0937			
CONTRACT ID			
PROJECT NO.			
COUNTY MISSISSIPPI			
			DATE 01/15/07



**DETAIL OF END CAP**  
Delineator not shown in this view for clarity.

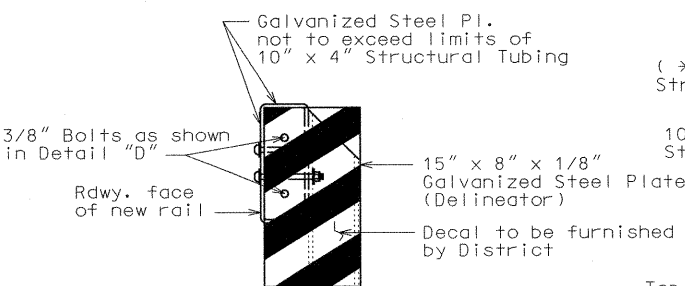


**SECTION A-A  
(SOLID CONNECTION)**

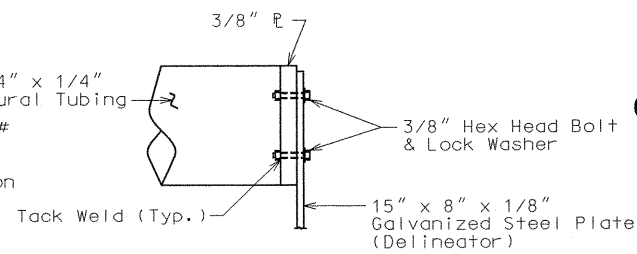


**ELEVATION  
(SOLID CONNECTION)**

\*\*\* Bore out existing holes in 4"H@13.8# post to 13/16"Ø, field drill holes in new 10x4x1/4 Structural Tubing to match posts, and install 3/4" button head bolts, nuts and washers.

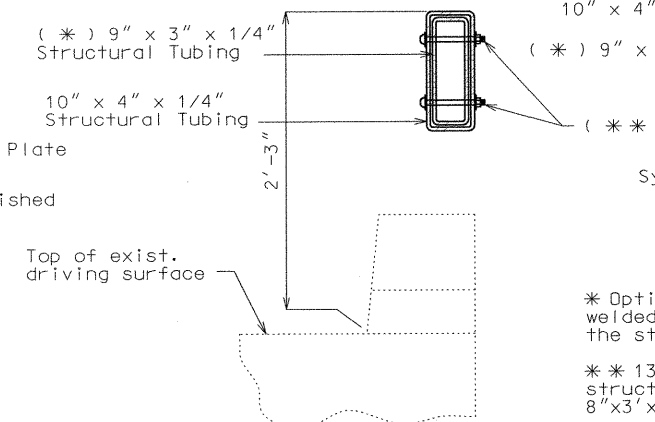


**SECTION C-C  
(DELINEATOR LOCATION)  
(4 LOCATIONS)**

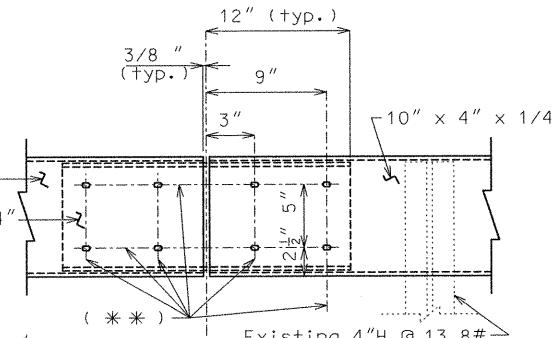


**DETAIL "D"**

NOTE: Drill holes in 3/8" Pl. and tack weld 3/8" nuts to back of Pl. prior to welding to end of Structural Tubing.



**SECTION B-B  
(EXPANSION JOINT)**

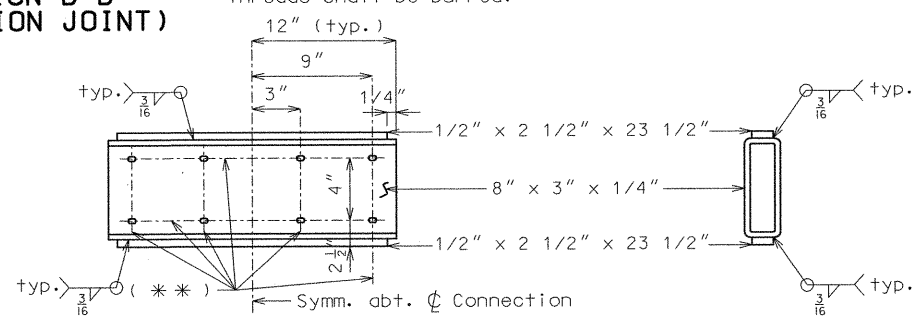


**TYPICAL ELEVATION AT  
EXPANSION CONNECTION  
AND SPLICE LOCATIONS**

\* Optional splice, 8"x3"x1/4" tubing with 1/2"x2 1/2" plates welded to the top and bottom, may be substituted in place of the standard expansion connection, 9"x3"x1/4" tubing.

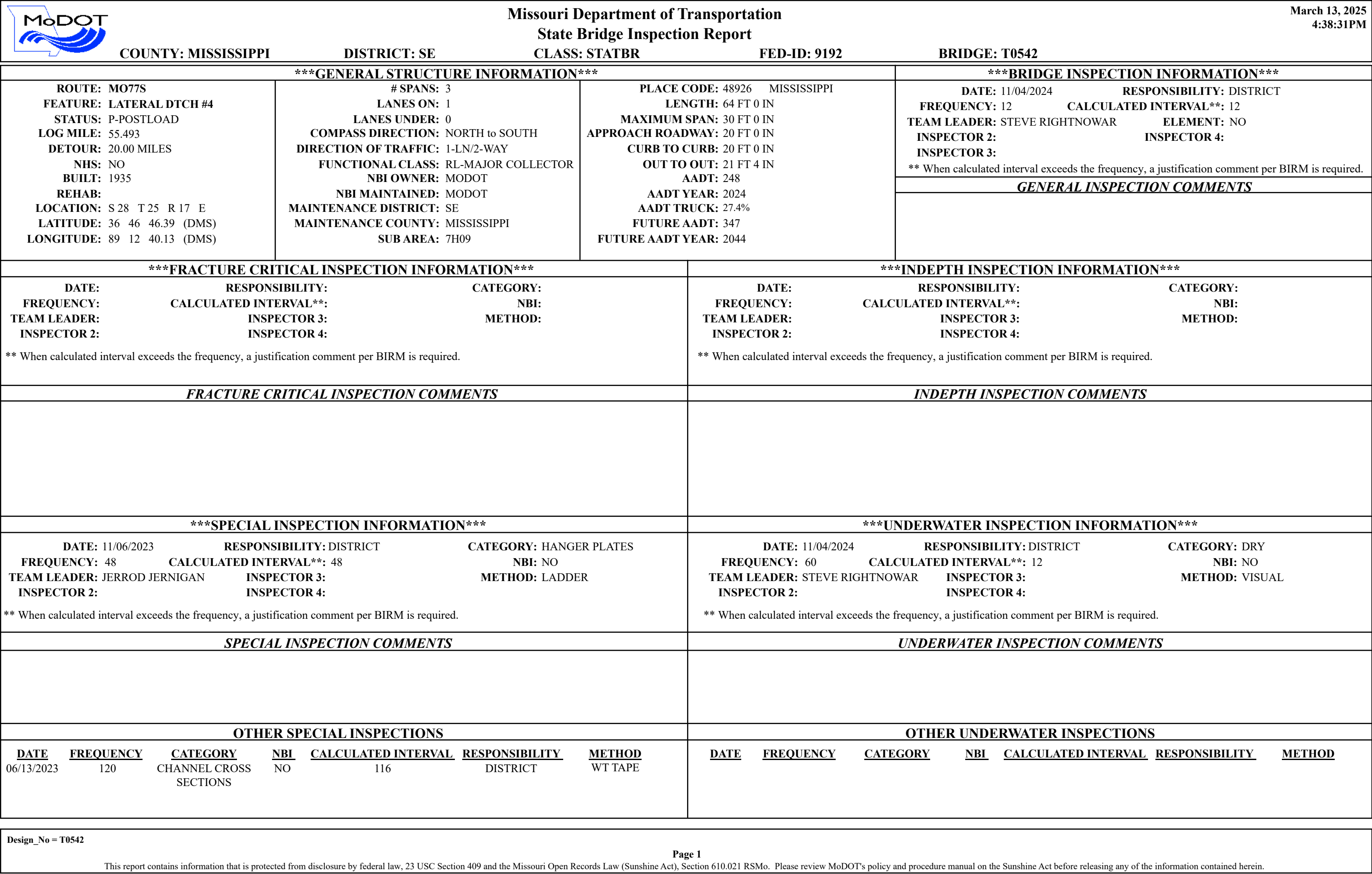
\*\* 13/16" x 2 1/2" Slotted holes in the 10"x4"x1/4" structural tubing and the 9"x3"x1/4" structural tubing or the 8"x3"x1/4" structural tubing.


After installation, nuts shall be backed off 1/2 turn and threads shall be burred.

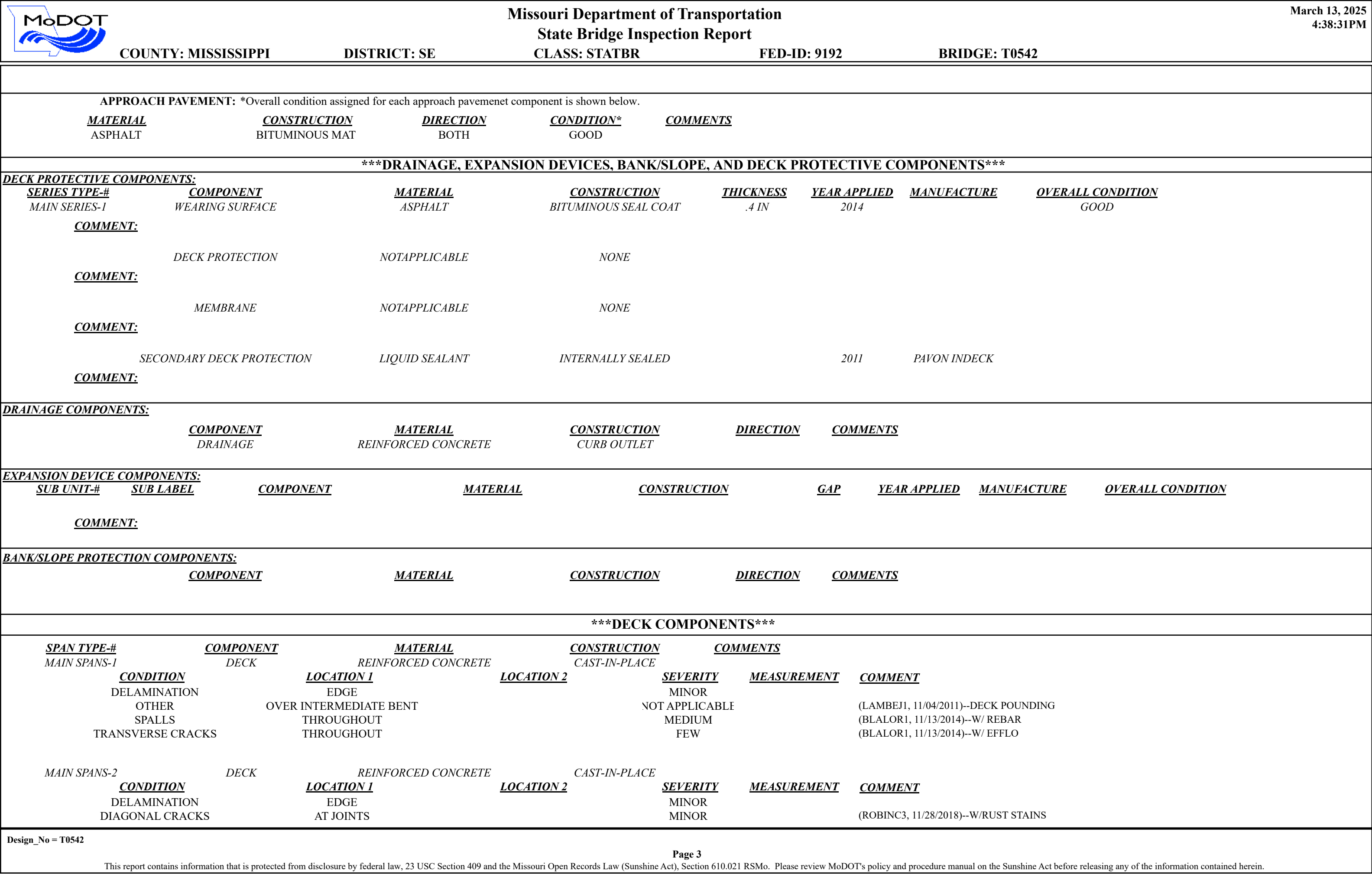


**OPTIONAL SPLICE FOR  
EXPANSION CONNECTION  
AND SPLICE LOCATIONS**

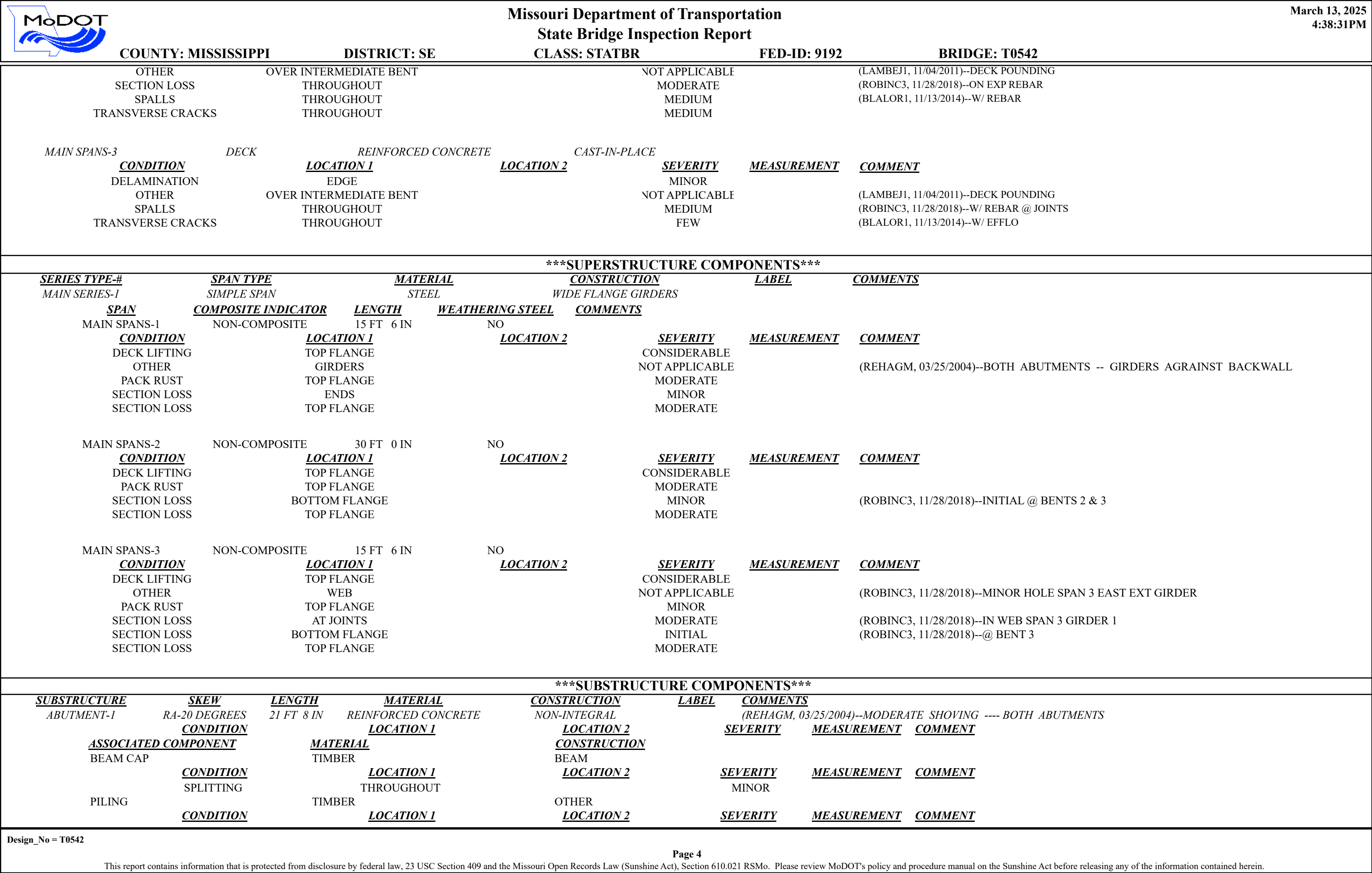





		Missouri Department of Transportation			March 13, 2025	
		State Bridge Inspection Report			4:38:31PM	
COUNTY: MISSISSIPPI		DISTRICT: SE	CLASS: STATBR	FED-ID: 9192	BRIDGE: T0542	
***STRUCTURE POSTING***						
APPROVED CATEGORY: S-5		CENTERLINE OF BRIDGE AND TRUCKS OVER 17 TONS 15 MPH ON BRIDGE.				
Ton 1: 17		Ton 2:	Ton 3:			
COMMENTS:						
FIELD CATEGORY: S-5		CENTERLINE OF BRIDGE AND TRUCKS OVER 17 TONS 15 MPH ON BRIDGE.				
Ton 1: 17		Ton 2:	Ton 3:	PROBLEM:	PROBLEM DIRECTION:	
COMMENTS:						
***GENERAL COMMENTS/MAJOR RATED ITEMS***						
GENERAL COMMENTS: (BOWDEJ1, 09/05/2008)--(15'-30'-15') SMP WF GDR SPANS						
[ITEM 58] DECK: 6-SATISFACTORY CONDITION		COMMENTS: (WIESEJ1, 08/08/2011)--T CRKS, SPALLS				
RATING : 05/18/2001						
[ITEM 59] SUPER: 5-FAIR CONDITION		COMMENTS: (ROBINC3, 11/28/2018)--MODERATE PACK RUST AND SECTION LOSS				
RATING : 11/28/2018						
[ITEM 60] SUB: 5-FAIR CONDITION		COMMENTS: (LAMBEJ1, 11/04/2011)--MULTIPLE BTS. W/TIMBER PILE SPLICES				
RATING : 12/22/2005						
[ITEM 61] BANK/CHANNEL: 6-WIDESPREAD MINOR DAMAGE		COMMENTS:				
RATING : 02/24/2004						
[ITEM 113] SCOUR: 8-STABLE FOR CALCULATED		COMMENTS:				
RATING : 05/18/2001						
EVALUATION TYPE :						
[ITEM 71] WATERWAY ADEQUACY: DECK ABOVE FLOOD ELEV		COMMENTS:				
RATING : 05/18/2001						
[ITEM 72] APPRRDWY ALIGNMENT: 8-VERYGOOD		COMMENTS:				
RATING : 05/18/2001						
***RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS***						
[ITEM 36A] BRIDGE RAILING RATING: DOESNT MEET CURRNT STND-0		RATING : 02/24/2004	COMMENTS:			
<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>			
REINFORCED CONCRETE	CURB	BOTH				
STEEL	1-RECTANGULAR TUBE	BOTH	(BOWDEJ1, 11/26/2007)--LOW PROFILE - REHAB 2007			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>		
RUSTING	THROUGHOUT		MINOR			
[ITEM 36B] TRANSITION RAILING RATING: NOT PROVIDED-0		RATING : 05/18/2001	COMMENTS:			
[ITEM 36C] APPROACH RAILING RATING: NOT PROVIDED-0		RATING : 05/18/2001	COMMENTS:			
[ITEM 36D] RAIL END TREATMENT RATING: NOT PROVIDED-0		RATING : 05/18/2001	COMMENTS:			
Design_No = T0542						
Page 2						
This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.						





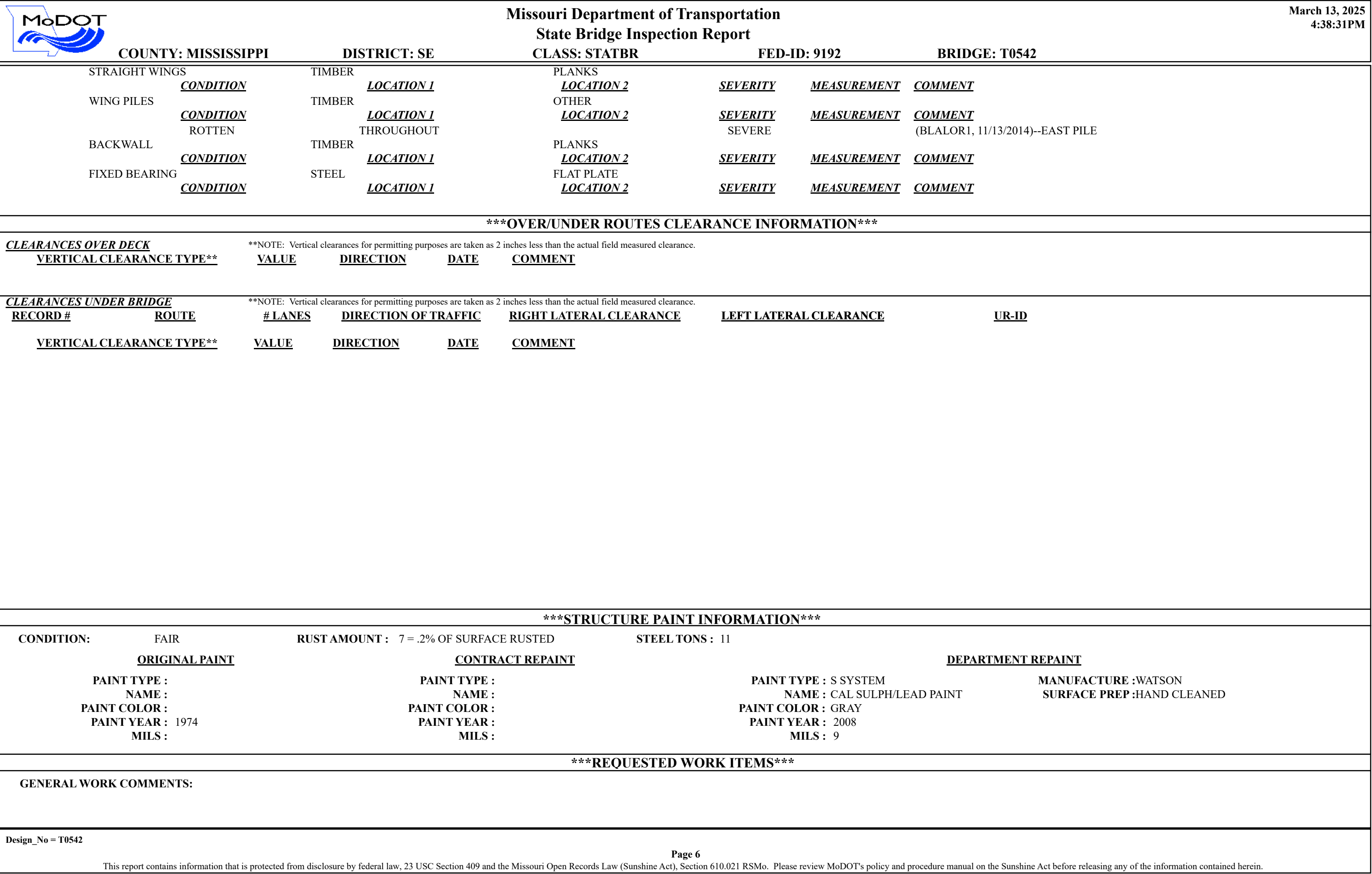



			Missouri Department of Transportation				March 13, 2025	
			State Bridge Inspection Report				4:38:31PM	
COUNTY: MISSISSIPPI			DISTRICT: SE		CLASS: STATBR		FED-ID: 9192	
							BRIDGE: T0542	
STRAIGHT WINGS	DECAYING		THROUGHOUT		PLANKS		MODERATE	
	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
	DECAYING		THROUGHOUT		OTHER		MINOR	
	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
	ROTTEN		GROUND LINE		PLANKS		MINOR	
	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
	FIXED BEARING		STEEL		FLAT PLATE		<u>SEVERITY</u>	
	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>MEASUREMENT</u>	
							<u>COMMENT</u>	
BENT-2	RA-20 DEGREES		21 FT 8 IN		TIMBER		PILE CAP	
	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
	<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>			
	BEAM CAP		TIMBER		BEAM			
	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
	DECAYING		ENDS				MINOR	
	SPLITTING		THROUGHOUT		OTHER		MODERATE	
	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
	REPLACE WITH H PILE		ALL				NOT APPLICABLE	
	FIXED BEARING		STEEL		FLAT PLATE		<u>SEVERITY</u>	
PILING	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>MEASUREMENT</u>	
							<u>COMMENT</u>	
	FIXED BEARING		STEEL		HANGER PLATE		<u>SEVERITY</u>	
	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>MEASUREMENT</u>	
	RUSTING		THROUGHOUT				MINOR	
BENT-3	RA-20 DEGREES		21 FT 8 IN		TIMBER		PILE CAP	
	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
	<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>			
	BEAM CAP		TIMBER		BEAM			
	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
	SPLITTING		THROUGHOUT				MINOR	
	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
	REPLACE WITH H PILE		ALL				NOT APPLICABLE	
	FIXED BEARING		STEEL		FLAT PLATE		<u>SEVERITY</u>	
	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>MEASUREMENT</u>	
ABUTMENT-4	RA-20 DEGREES		21 FT 8 IN		REINFORCED CONCRETE		NON-INTEGRAL	
	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
	<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>			
	BEAM CAP		TIMBER		BEAM			
	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
	SPLITTING		THROUGHOUT				MODERATE	
	<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>	
	DECAYING		THROUGHOUT		OTHER		MODERATE	

Design\_No = T0542

Page 5

This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.



		Missouri Department of Transportation				March 13, 2025																																		
		State Bridge Inspection Report				4:38:31PM																																		
COUNTY: MISSISSIPPI		DISTRICT: SE		CLASS: STATBR		FED-ID: 9192																																		
						BRIDGE: T0542																																		
<div>RESPONSIBILITYLOCATIONITEMCATEGORYPRIORITYDATEWORK ITEM COMMENT</div>																																								
***UTILITY ATTACHMENTS***																																								
<div>UTILITYOWNERMETHODMEASUREMENT TYPEVALUENUMBERUTILITY ATTACHMENT COMMENT</div>																																								
***PROGRAM NOTES INFORMATION***																																								
<div>YEARPROJECT #MONTH LETYEAR LETITEMSCOMMENT</div> <div>2027SE006212027REPLACE BRIDGE</div>																																								
***COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS***					***ADVANCED SIGN INFORMATION***																																			
<div>NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.</div> <table><tr><td><u>Rated Item</u></td><td><u>Rating</u></td><td><u>Rating Date</u></td></tr><tr><td>[Item 67] Structure Evaluation Rating:</td><td>2-BASICALLY INTOLRBLE REQ</td><td>12/6/2023</td></tr><tr><td>[Item 68] Deck Geometry Rating:</td><td>4-MEETS MINIMUM TOLERABLE</td><td>5/18/2001</td></tr><tr><td>[Item 69] Underclearance:</td><td>N-NOT APPLICABLE</td><td>5/18/2001</td></tr><tr><td>Sufficiency Rating:</td><td>48.4%</td><td>3/6/2024</td></tr><tr><td>Deficiency:</td><td>STRUCTURAL</td><td>12/6/2023</td></tr><tr><td>Funding Eligibility:</td><td>FULL</td><td>----</td></tr><tr><td>Estimated New Structure Length:</td><td>89 FT.</td><td>----</td></tr><tr><td>Estimated Structure Cost:</td><td>\$462,711</td><td>----</td></tr><tr><td>Estimated Total Project Cost:</td><td>\$694,067</td><td>----</td></tr><tr><td>Year of Cost Estimate:</td><td>2025</td><td>----</td></tr></table> <div>NOTE: The above structure length and cost estimates are computer generated using algorithms in the TMS system. These algorithms are generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.</div>					<u>Rated Item</u>	<u>Rating</u>	<u>Rating Date</u>	[Item 67] Structure Evaluation Rating:	2-BASICALLY INTOLRBLE REQ	12/6/2023	[Item 68] Deck Geometry Rating:	4-MEETS MINIMUM TOLERABLE	5/18/2001	[Item 69] Underclearance:	N-NOT APPLICABLE	5/18/2001	Sufficiency Rating:	48.4%	3/6/2024	Deficiency:	STRUCTURAL	12/6/2023	Funding Eligibility:	FULL	----	Estimated New Structure Length:	89 FT.	----	Estimated Structure Cost:	\$462,711	----	Estimated Total Project Cost:	\$694,067	----	Year of Cost Estimate:	2025	----	<div>SIGN #SIGN TYPEPROBLEMPROBLEM DIRECTION</div> <div>1B - ONE LANE BRIDGE</div> <div>2YIELD TO ONCOMING TRAFFIC</div>		
					<u>Rated Item</u>	<u>Rating</u>	<u>Rating Date</u>																																	
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***OUTFALL INSPECTION INFORMATION***																																								
<div># OUTFALLS:INSPECTOR:</div> <div>STATUS:DATE:</div> <div>NOTES:</div>																																								





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

March 13, 2025  
5:00:27pm

COUNTY : MISSISSIPPI BRIDGE : T0542 1 REVIEW STATUS : CONVERTED NBI STATUS : T  
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 3/7/2025 SUBMITTAL YEAR : 2025

GENERAL STRUCTURE INFORMATION

1	State	MISSOURI
2	District	SE
3	County	MISSISSIPPI
8	Federal ID No.	9192
27	Year Built	1935
106	Year Reconstructed	0
42A	Type of Service On	HIGHWAY
21	Structure Maintenance	STATE HIGHWAY AGENCY
22	Structure Owner	STATE HIGHWAY AGENCY
33	Br. Median Code	NO MEDIAN
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP
101	Parallel Struc Desg	NONE EXISTS
103	Temporary Structure	NOT TEMPORARY
112	NBIS Bridge Length	YES

ROUTE DESIGNATION INFORMATION

5A	Record Type	ROUTE CARRIED 'ON' STRUCT
5B	Route Signing Prefix	MO
5C	Designated Level of Service	MAINLINE
5D	Route Number	00077
5E	Directional Suffix	NOT APPLICABLE
7	Facility Carried	MO 77 S
12	Base Hwy. Network	NO
13A	LRS Inventory Route No.	
13B	Subroute No.	
20	Toll Status	ON FREE ROAD
26	Functional Classification	07-RURAL MAJOR COLLECTOR
28A	Lanes on Structure	01
100	STRAHNET Designation	RTE NOT A DEFENSE HWY
104	National Highway System	NOT ON NHS
105	Federal Lands Highway	NOT APPLICABLE
110	Designated Nat. Network	NO

STRUCTURE LOCATION INFORMATION

4	Place	MISSISSIPPI
	Code	48926
9	Location	S 28 T 25 N R 17 E
11	Milepoint	55.82 miles
16	Latitude	36 D 46 M 46 S
17	Longitude	89 D 12 M 40 S

STRUCTURE TRAFFIC INFORMATION

29	AADT	248
30	AADT Year	2024
102	Direction of Traffic	ONE LANE BRIDGE FOR 2-WAY
109	AADT Truck Percent	27%
114	Future AADT	347
115	Future AADT Year	2044

UNDERRECORD INFORMATION

6	Features Intersected	LATERAL DTCH #4
42B	Type of Service Under	WATERWAY
28B	Lanes Under Structure	00
54A	Vert. Clearance Ref.	N/A
54B	Vert. Clearance	0 Ft. 0 In.
55A	Rt. Lat Clear Ref.	N/A
55B	Rt. Lat Clearance	0 Ft. 0 In.
56	Left Lat Clearance	0 Ft. 0 In.
38	Navigation Control	PERMIT NOT REQ
39	Nav Vertical Clear	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.
111	Nav. Pier Protection	
116	Nav. Cl. Vert. Clear	

STRUCTURE GEOMETRIC INFORMATION

10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
19	By pass Detour Length	20.00 miles
32	Approach Roadway Width	20 Ft. 0 In.
34	Skew	20.00 Degrees
35	Struct. Flared	NO
47	Total Horiz. Clear	20 Ft. 0 In.
48	Maximum Span Length	29 Ft. 10 In.
49	Structure Length	63 Ft. 12 In.
50A	Left Curb/Sidewalk Width	0 Ft. 0 In.
50B	Right Curb/Sidewalk Width	0 Ft. 0 In.
51	Curb to Curb Br. Width	20 Ft. 0 In.
52	Deck Width (Out-Out)	21 Ft. 4 In.
53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design\_No = T0542 and Inventory\_Appraisal\_Submittal\_Year = 2025





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Bridge Inventory and Inspection System  
Structural Inventory & Appraisal Sheet

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COUNTY : MISSISSIPPI BRIDGE : T0542 1 REVIEW STATUS : CONVERTED NBI STATUS : T  
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 3/7/2025 SUBMITTAL YEAR : 2025

LOAD RATING AND POSTING INFORMATION			MATERIAL/CONSTRUCTION INFORMATION		
31	Design Load	H 10	43A	Main Struc. Mat type	STEEL
41	Structure Status	POSTED FOR LOAD	43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
63	Oper. Rating Meth.	ALLOWABLE STRESS	45	# of Main Spans	3
64	Operating Rating	23 Tons.	44A	Appr Struc. Mat type	000
65	Inventory Rating Meth	ALLOWABLE STRESS	44B	Appr Struc. Cnstr. type	000
66	Inventory Rating	11 Tons.	46	# of Approach Span	0
70	Bridge Posting Code	20.0-29.9% BELOW	107	Deck Mat/Constr.	1 CONCRETE CIP
PROPOSED IMPROVEMENT INFORMATION			108A	Wear Surf Mat/Constr.	6 BITUMINOUS
Sufficiency Rating 48.4 Percent			108B	Membrane Mat/Constr.	0 NONE
Deficiency Rating STRUCTURAL			108C	Deck Protect Mat/Constr.	0 NONE
Funding Eligibility FULL			CONDITION RATING INFORMATION		
75A	Proposed Work	REPLACEMENT SUBSTND LOAD	58	Deck Cond. Rating	6
75B	Work Done By	Contract	59	Superstructure Cond. Rating	5
76	New Struc Length	88 Ft. 7 In.	60	Substructure Cond. Rating	5
94	Struc Improve Cost	\$ 463,000	61	Channel /Channel Protection Cond. Rating	6
95	Roadway Improve Cost	\$ 46,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 694,000	INSPECTION INFORMATION		
97	Year of Cost Estimates	2025	90	Gen. Insp Date	11 / 24
APPRAISAL RATING INFORMATION			91	Gen. Insp. Frequency	12 Months
36A	Br. Rail App. Rating	DOES NOT MEET ACCEPT STND	92A	Frac. Critical Inspection	N Months
36B	Transition Rail App. Rating	DOES NOT MEET ACCEPT STND	93A	Frac. Critical Insp. Date	
36C	Approach Rail App. Rating	DOES NOT MEET ACCEPT STND	92B	Underwater Inspection	N Months
36D	Rail End Treat. App. Rating	DOES NOT MEET ACCEPT STND	93B	Underwater Insp. Date	
67	Struc Eval App. Rating	2	92C	Special Inspection	N Months
68	Deck Geometry App. Rating	4	93C	Special Inspection Date	
69	Underclearance App. Rating	N	BORDER BRIDGE INFORMATION		
71	Waterway Adeq. App. Rating	8	98	Neighboring State Code	
72	Approach Road App. Rating	8	98B	Neighboring State % Respon	
113	Scour Assess App. Rating	8	99	Neighboring State Struc. No.	
APPROVED POSTING INFORMATION			FIELD POSTING INFORMATION		
Approved Posting Category S-5			Field Posting Category S-5		
Ton1 Ton2 Ton3			Ton1 Ton2 Ton3		
Tonnage Values for Posting Sign 17			Tonnage Values for Posting Sign 17		
General Text for Posting Sign			General Text for Posting Sign		
CENTERLINE OF BRIDGE AND TRUCKS OVER 17 TONS 15 MPH ON BRIDGE.			CENTERLINE OF BRIDGE AND TRUCKS OVER 17 TONS 15 MPH ON BRIDGE.		

Design\_No = T0542 and Inventory\_Appraisal\_Submittal\_Year = 2025