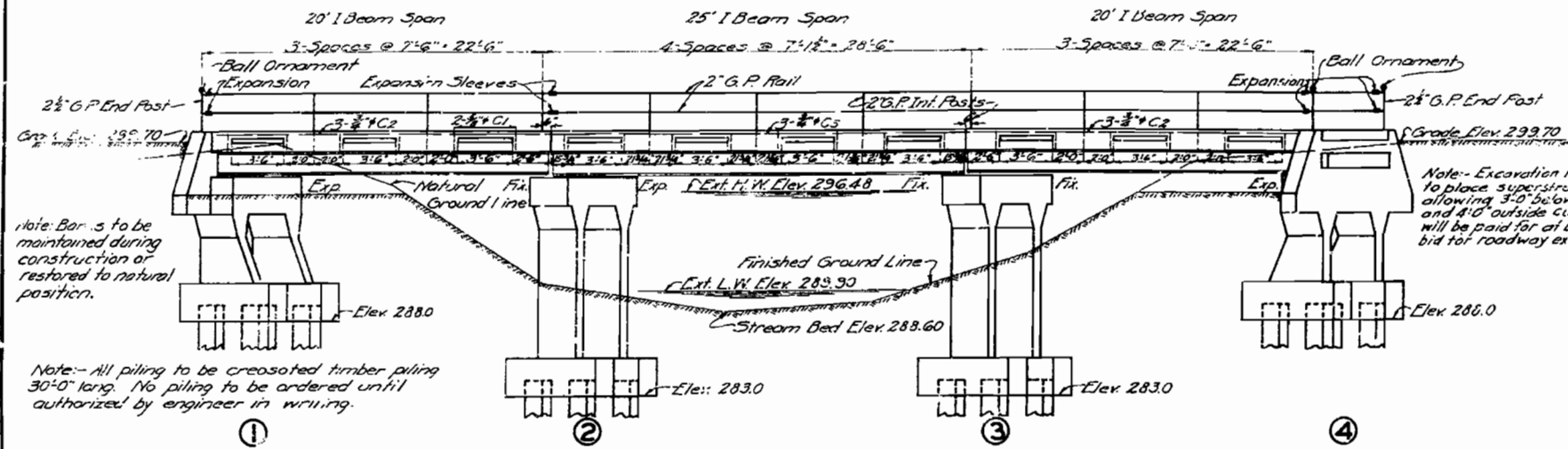
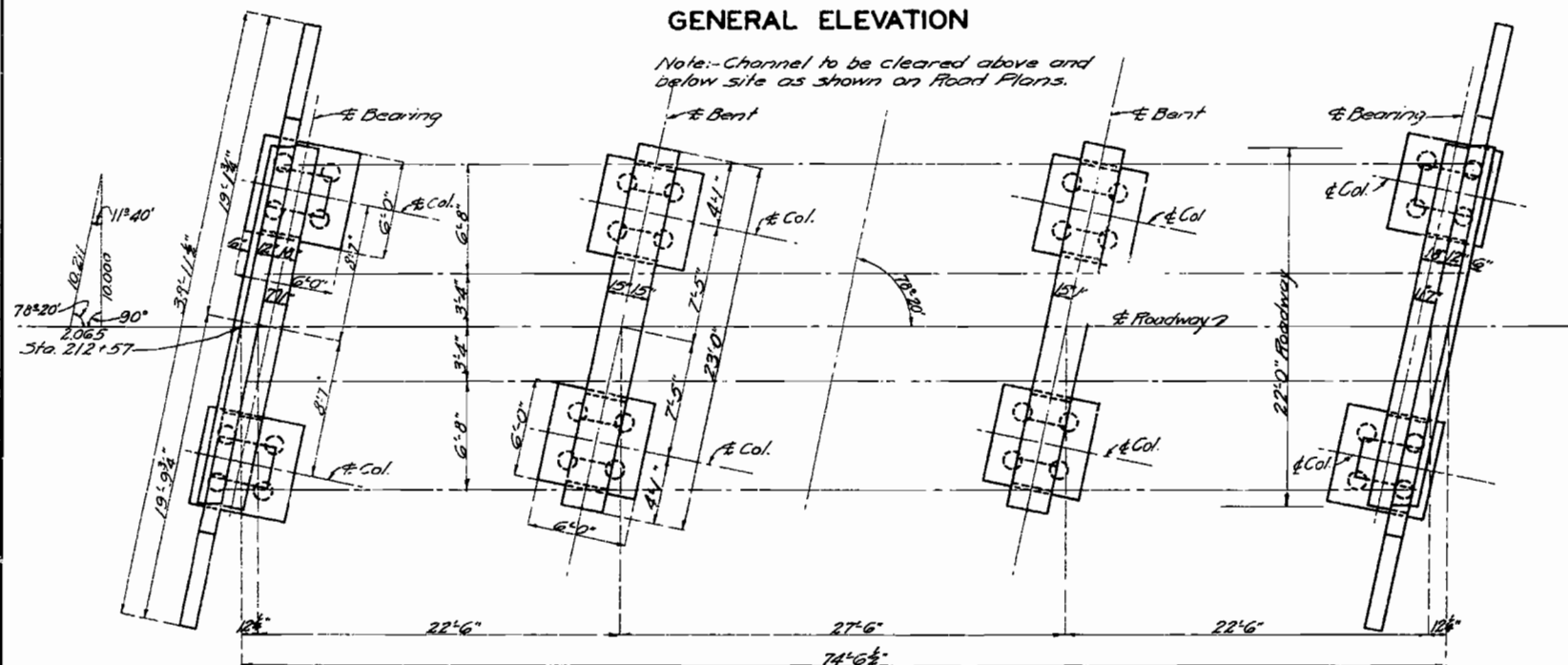


MISSOURI STATE HIGHWAY DEPARTMENT

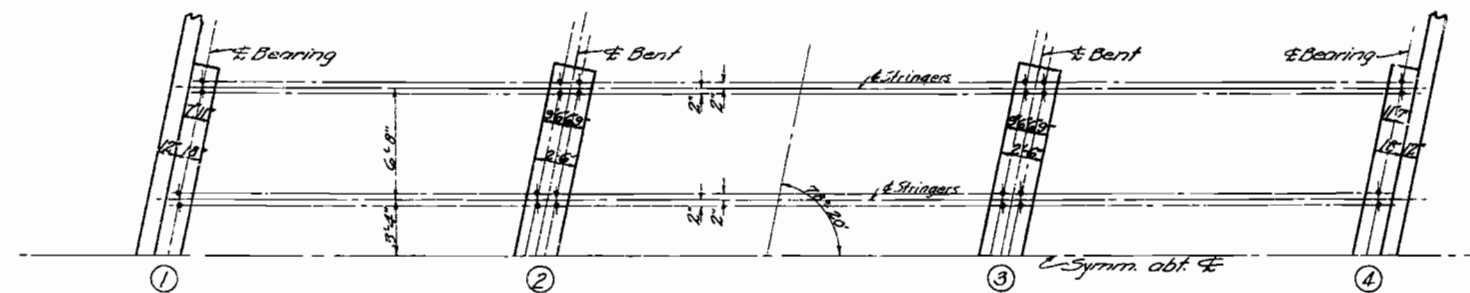
EST. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	1188(10-60)	19		



GENERAL ELEVATION



PLAN



HALF ANCHOR BOLT PLAN

COMPLETE BILL OF REINFORCING STEEL

NO.	SIZE	LENGTH	MARK	LOCATION
40	3/4"	5'3"	D1	Footings
16	3/4"	8'6"	F1	Haunches
16	3/4"	9'3"	F2	"
16	3/4"	8'6"	F3	"
16	3/4"	8'0"	F4	"
8	3/4"	11'9"	H1	Wing
6	3/4"	18'3"	H2	"
12	3/4"	24'3"	H3	Backwall
8	3/4"	22'3"	H4	"
6	3/4"	24'3"	H5	"
2	3/4"	17'6"	H6	Backwall
8	3/4"	24'0"	T1	Wing
12	3/4"	6'3"	V1	"
12	3/4"	5'3"	V2	"
44	3/4"	10'0"	V3	Beam
24	3/4"	6'6"	V4	Columns
44	3/4"	4'6"	V5	Backwall
16	3/4"	11'6"	P1	Column
24	3/4"	10'0"	P2	"
60	3/4"	9'0"	P3	Beam
20	7/8"	24'9"	H7	"

SUPERSTRUCTURE				
80	3/4"	12"	C1	Curb
12	3/4"	22'3"	C2	"
6	3/4"	27'3"	C3	"
276	3/4"	23'3"	S1	Slab
66	3/4"	25'0"	S2	"
56	3/4"	22'3"	S3	"
28	3/4"	27'3"	S4	"
12	3/4"	23'3"	S5	"

BENDING SKETCHES & CUTTING DIAGRAMS	
<p>DI</p>	<p>3-H2 BARS, CUT 6</p>
<p>F1</p>	<p>V3 & P2</p>
<p>H3</p>	<p>H3 - H5 - H7</p>
<p>T1</p>	<p>P3</p>
<p>V3</p>	<p>6-VI BARS, CUT 12</p>
<p>F3 - F4</p>	<p>11-S2 BARS, CUT 66</p>

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

Reinforcing bars over 3/4" in diameter, which are bent to an angle greater than 90°, shall be of structural grade.

GENERAL NOTES:-

Concrete in slab and curb to be 1:2:3 1/2 mix, Class "X" concrete.
All other concrete to be 1:2:4 mix, Class "B" concrete.
Exposed edges to be beveled 1/4" where no other bevel is noted.
Shop drawings for structural steel and handrail shall be submitted to the State Highway Department in duplicate and shall be approved before steel is fabricated.
Paint: Shop: None.
Field: Surfaces inaccessible after erection, four coats of red lead, NO OTHER PAINT TO BE APPLIED BY CONTRACTOR.
All paint will be furnished by the Missouri State Highway Department.
Two name plates, type "C" as shown on Std. 5810, to be furnished and placed by contractor. Cost of name plates to be included in price bid for other items.
Where bituminous felt is used in expansion or partition joints in concrete, stitch felt in vertical joints securely to one face of concrete with copper wire.
Floor slab to be brought to grade and dead load deflection taken care of by increasing slab thickness. See Sheet No. 2.
Bridge excavation in accordance with Section 1 of Standard Specifications issued April 1, 1930.
Piles to be driven to sustain a load of 12 ton per pile.
Field connections - 3/4" Rivets - Open holes 1/8".
See sheet No. 3 and special provisions regarding permissible substitutions of beams.

LOCATION SKETCH

ESTIMATED QUANTITIES

ITEM	SUBSTR.	SUPERSTR.	TOTAL
Excavation Class 1 Cu.Yds.	165		165
Excavation Class 2 Cu.Yds.	110		110
Concrete 1:2:3 1/2 mix "X" Cu.Yds.		41.1	41.1
Concrete 1:2:4 mix "B" Cu.Yds.	71.0		71.0
Fabricate & Erect Steel Lbs.		22750	22750
Reinforcing Steel Lbs.	5600	11430	17030
Creas. Timber Piling Lin.Ft.	960		960
Creas. Timber Pile Cut-Off Lin.Ft.	96		96
Gas Pipe Handrail Lin.Ft.		349	349

Note:- Bridge excavation above Elev 290.0 will be paid for as Class 1 Bridge Excavation. Bridge excavation below Elev 290.0 will be paid for as Class 2 Bridge Excavation.
Note:- This drawing is not to scale.
Follow dimensions.

B.M. Elev. 294.96. Nail in root of 15" persimmon 175' Lt. Sta. 209+05.

BRIDGE OVER DRAINAGE DITCH

STATE ROAD FROM ESSEX TO GRAY RIDGE
ABOUT 1.0 MILE EAST OF HUNTERVILLE
PROJECT NO. 118 B (U.S. 60) STA. 212+57

STODDARD COUNTY

SUBMITTED BY: *M.R. Lacy* DATE: 5/13/31
APPROVED BY: *T.H. Cutler* DATE: 5/13/31
BRIDGE ENGINEER
CHIEF ENGINEER

STD. 5818

J-740

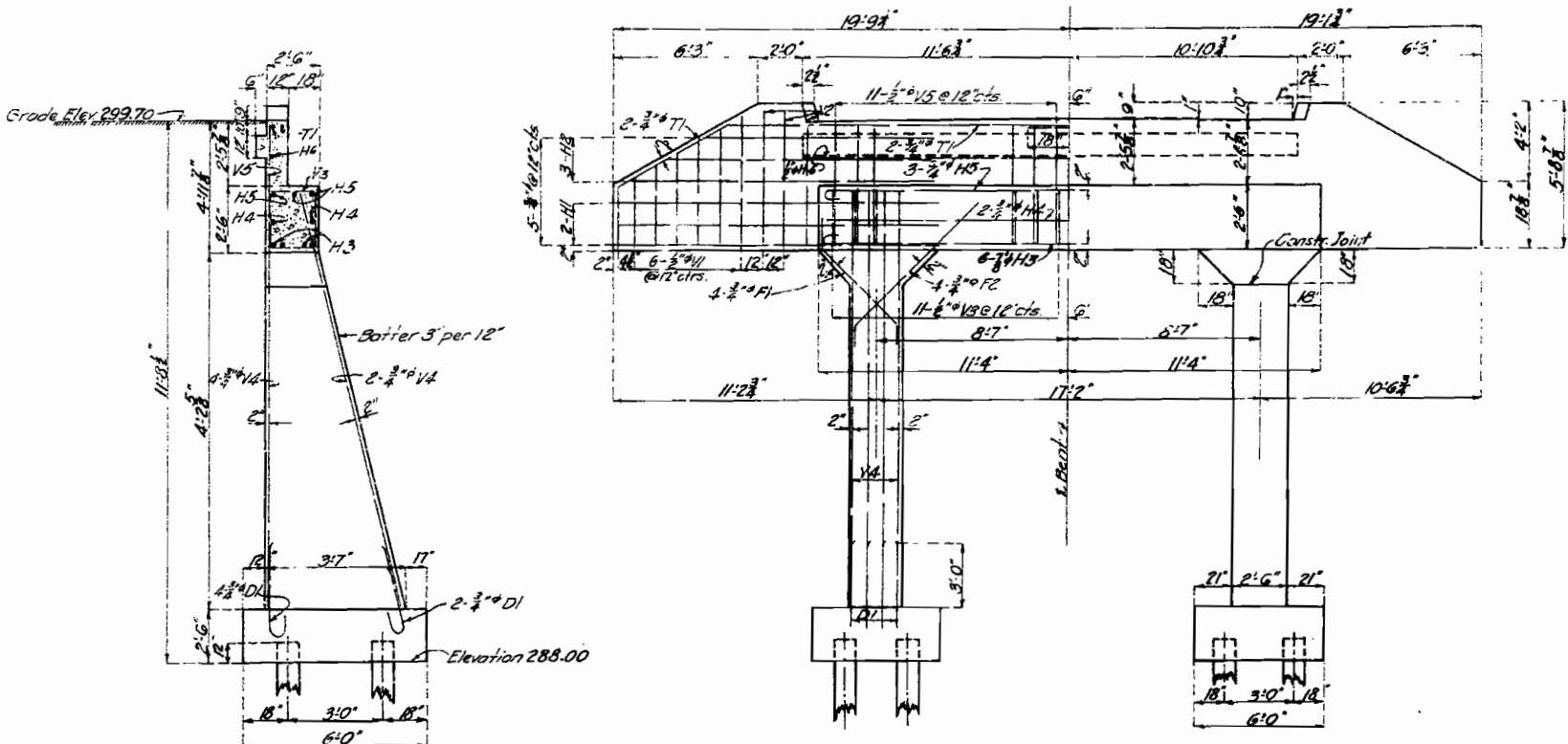
Drawn Apr. 1931 by C.M.G.
Traced Apr. 1931 by C.A.F.
Checked Apr. 1931 by A.O.U.

Sheet No. 1 of 3

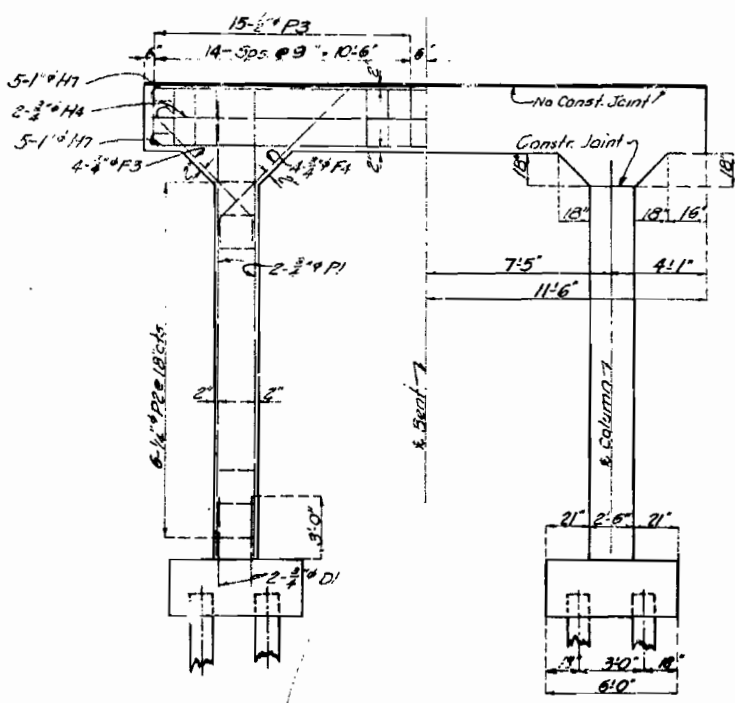
F.A.

MISSOURI STATE HIGHWAY DEPARTMENT

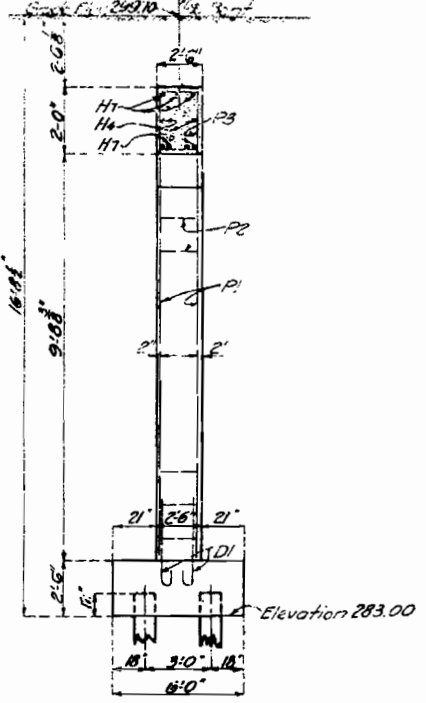
FILE NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	118B (US 60)	1931		



ELEVATION

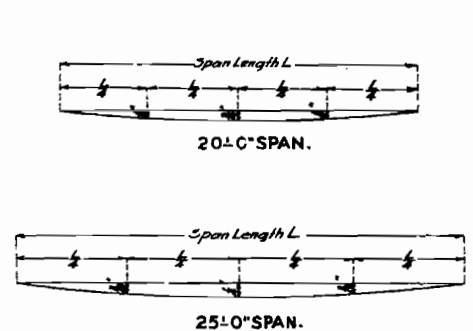


ELEVATION

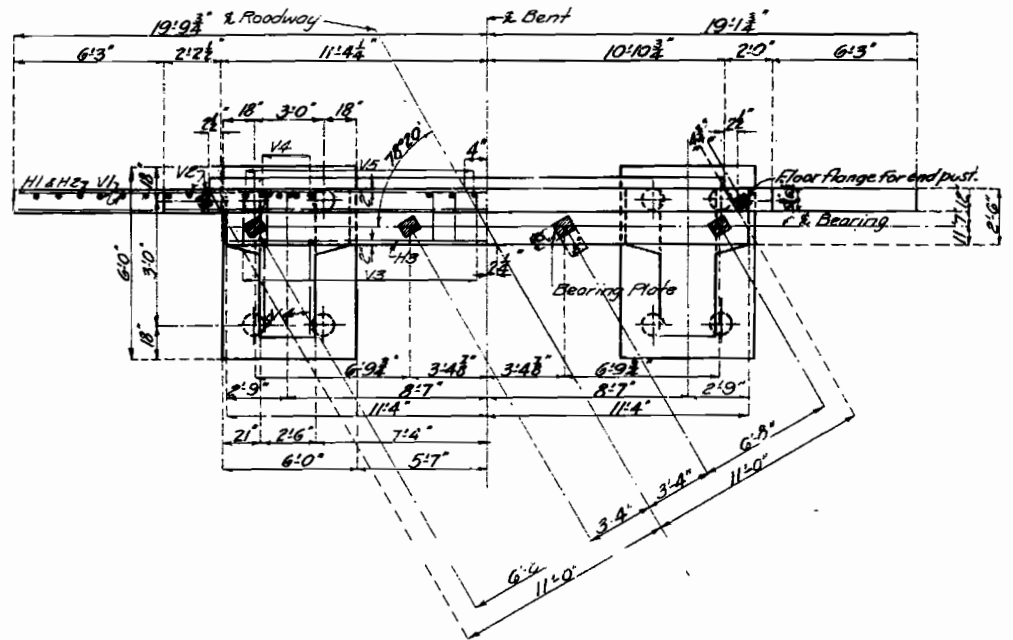


SECTION AT C

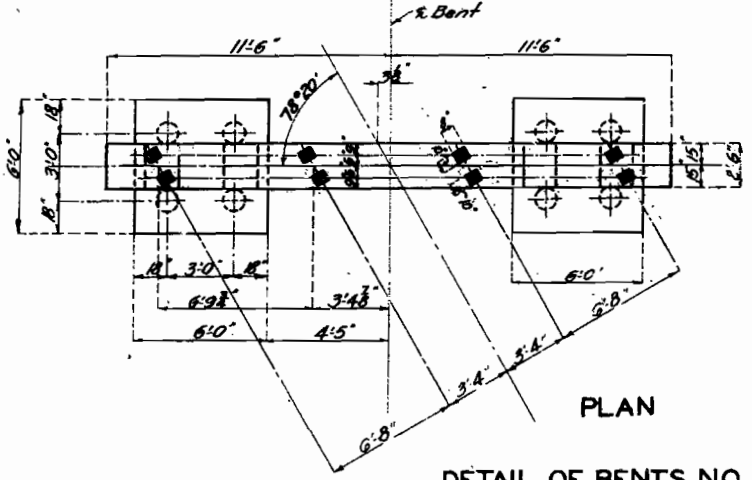
SECTION AT C



DEAD LOAD DEFLECTION



DETAILS OF BENTS NO. 1 & 4



DETAIL OF BENTS NO. 2 & 3

BRIDGE OVER DRAINAGE DITCH

STATE ROAD FROM ESSEX TO GRAY RIDGE
ABOUT 1.0 MILE EAST OF HUNTERVILLE
PROJECT NO. 118B (US 60) STA. 212+57

STODDARD COUNTY

SUBMITTED BY *M.R. Lays* DATE *5/13/31*
APPROVED BY *T.H. Cutler* DATE *5/13/31*
CHIEF ENGINEER

Assembled April 1931 by C.M.G.
Checked April 1931 by A.O.U.
Drawn Oct. 1930 by H.B.A.
Traced Oct. 1930 by G.W.
Checked :93 by

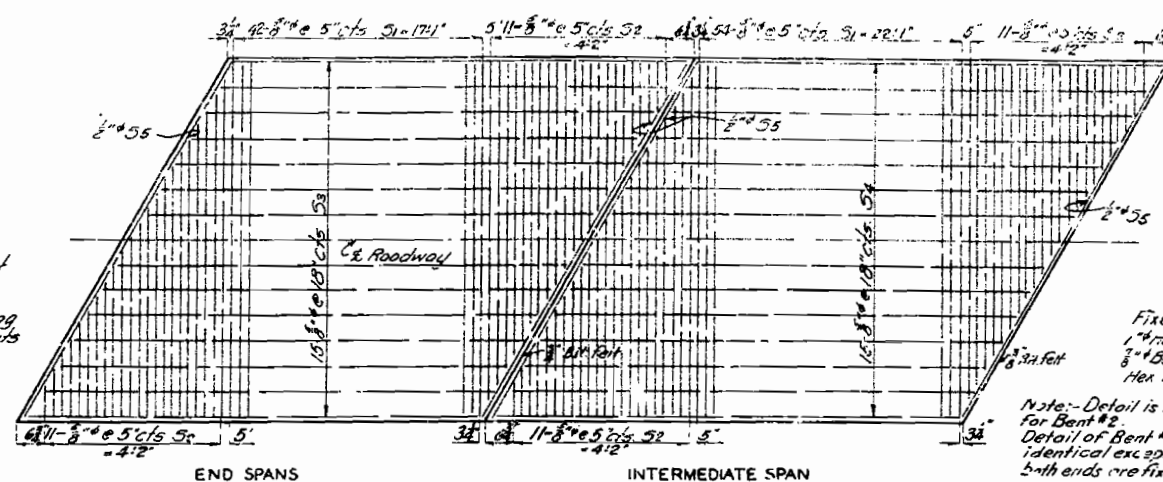
Note: This drawing is not to scale.
Follow dimensions

Sheet No. 2 of 3.

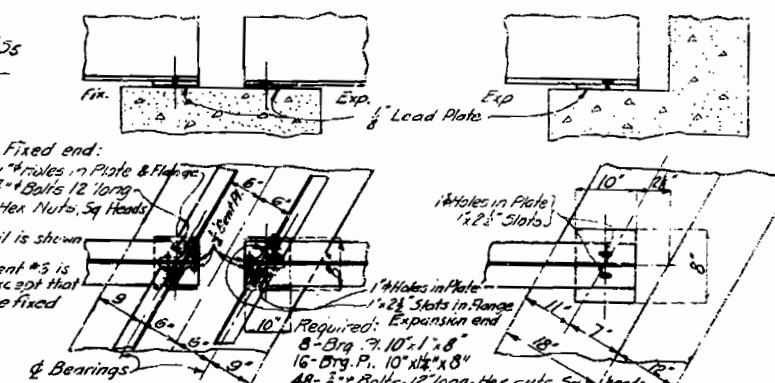
STD. S-813
J-740

312

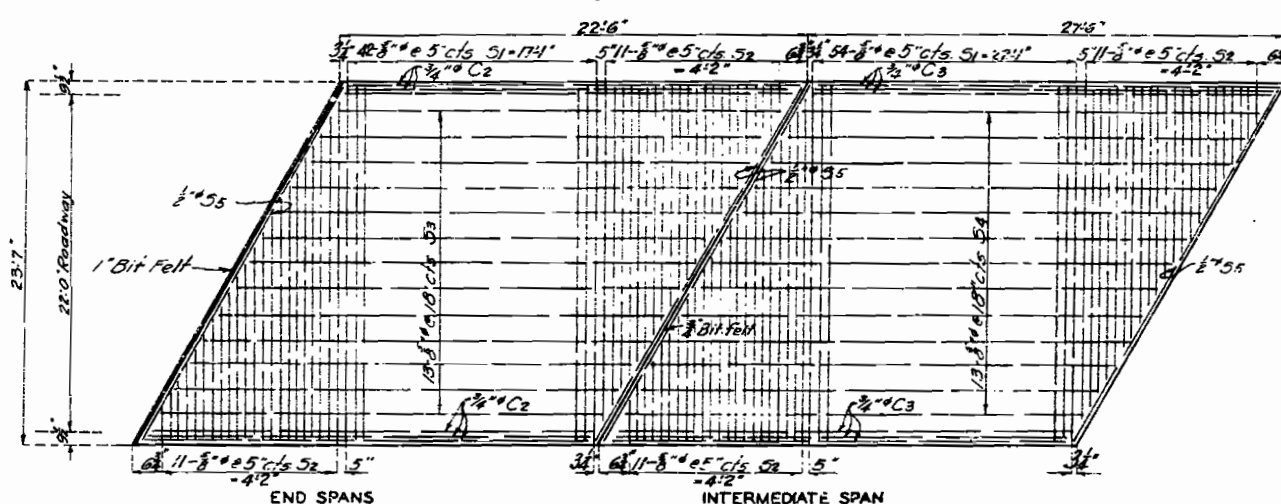
UNIT NO.	PAGE NO.	SERIAL NO.	TOTAL PAGES
10821	U.S.G.	1931	



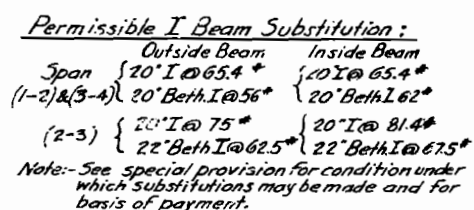
PLAN OF SLAB SHOWING BOTTOM REINFORCEMENT



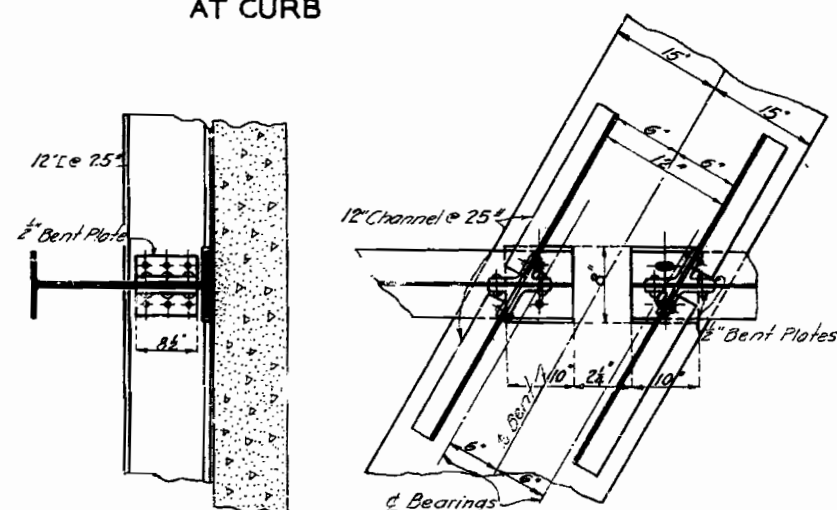
DETAILS OF BEARINGS ON BENTS NO. 1 & 4



PLAN OF SLAB SHOWING TOP REINFORCEMENT



Note: Tops of joints to be finished within $\pm 0.148"$ of final elevation. c. bottom of plates as possible. Plates to be secured to proper elevation by inserting soft lead plates between top of bent and bottom of plate over entire bearing area. Cost of lead plates to be included in price bid for other items.



BRIDGE OVER DRAINAGE DITCH

STODDARD COUNTY, MISSOURI

STD-S-818

J-740

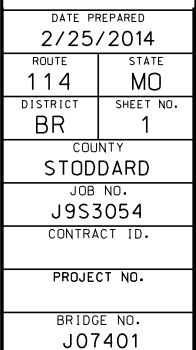
Assembled April 1931 by C.M.G.
Checked Apr. 1931 by A.Q.U.
Drawn Nov 1930 by
Traced Jan. 1931 by G.W.
Checked 193 by

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

Sheet No 3 of 3

FA

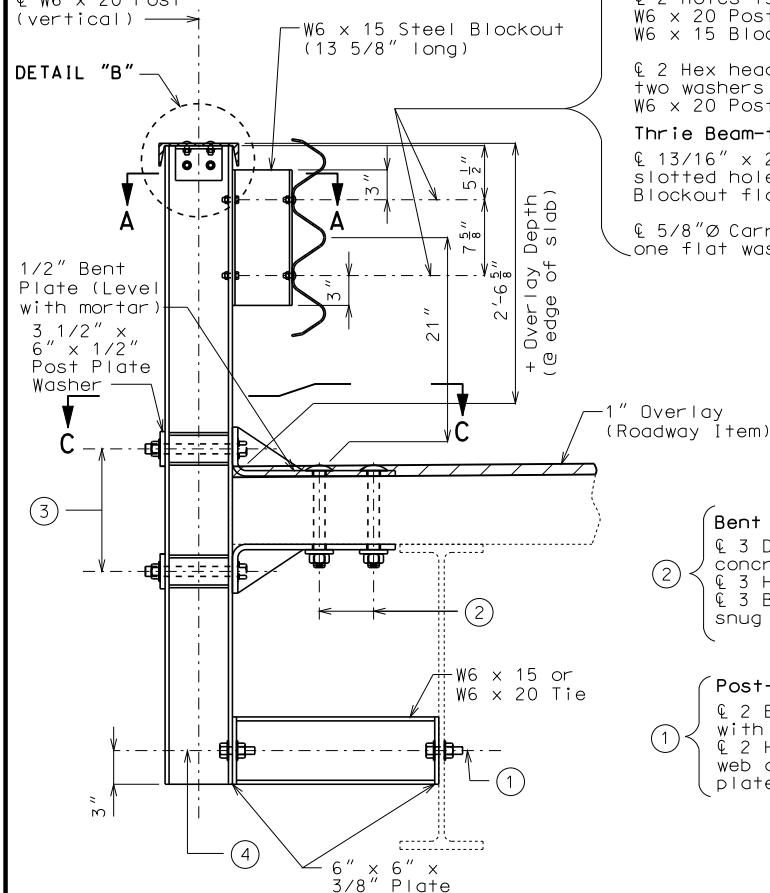
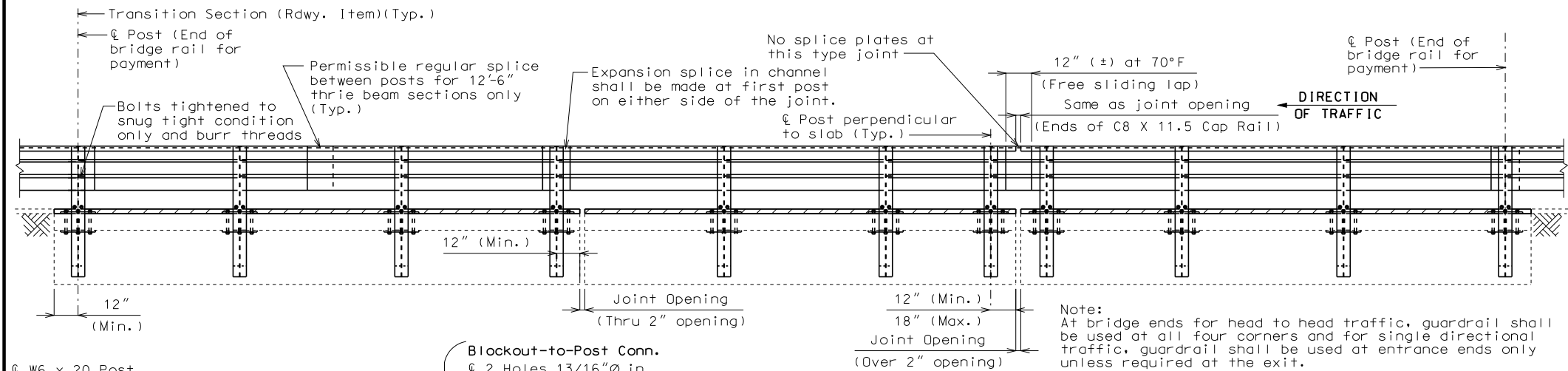
SEC/SUR 7	TWP 25N	RGE 12E
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Estimated Quantities		
Item		Total
Removal of Existing Curb and Rail	linear foot	150
Slab Edge Repair	linear foot	120
Bridge Guardrail (Thrie Beam)	linear foot	150

STD. 617.10

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED:



Blockout-to-Post Conn.

2 Holes 13/16"Ø in W6 x 20 Post flange and W6 x 15 Blockout flange

2 Hex head bolt 5/8"Ø with two washers and hex nut in W6 x 20 Post flange

Thrie Beam-to-Blockout Conn.

13/16" x 2 1/2" Vertical slotted hole in W6 x 15 Blockout flange (**)

5/8"Ø Carriage bolt with one flat washer and hex nut

1" Overlay (Roadway Item)

Bent Plate-to-Deck Conn.

3 Drilled holes 1 1/8"Ø (min.) in old concrete or as recommended by manufacturer
3 Holes 1 1/4"Ø in bent plates
3 Bolt 1"Ø A325 H.S. Round head bolts, snug tight, with hardened washers

Post-to-Tie Conn.

2 Bolts 3/4"Ø A325 H.S. with hardened washers
2 Holes 15/16"Ø in girder web and 6" x 6" x 3/8" plate

(**) Required on one side of web only, but may be provided on both sides of web at the contractor's option.

Post-to-Bent Plate Conn.

2 Bolts 1"Ø A325 H.S. with hardened washers
2 Vertical slotted holes 1 1/16" x 1 1/2" in post flanges
2 Holes 1 1/16"Ø in bent plate and post plate washer

Post-to-Tie Conn.

2 Bolts 3/4"Ø A325 H.S. with hardened washers
2 Holes 15/16"Ø in post flange and 6" x 6" x 3/8" plate

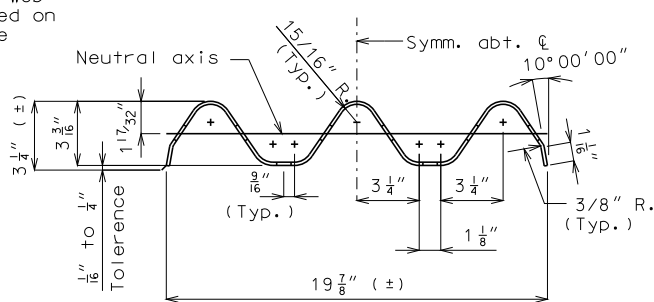
29/32" X 1 1/8" Slots at regular splices and 29/32" X 2 1/2" slots at expansion splices

3/4" X 2 1/2" regular slots and 3/4" X 3 3/4" exp. slots at post

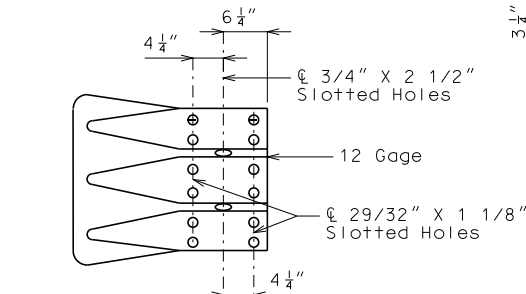
(At regular splices)

(At expansion splices)

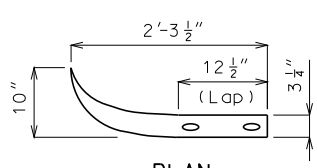
THRIE BEAM RAIL SPLICE DETAILS



SECTION THRU THRIE BEAM RAIL



ELEVATION



PLAN DETAIL "A"

Note: For location of Detail "A", see Sheet No. 2.

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

Sheet No. 3 of 4

NOTES:

Panel lengths of channel members shall be attached continuously to a minimum of four posts and a maximum of six posts (except at end bents).

All bolts, nuts, washers, plates and elastomeric materials will be considered completely covered by the contract unit price for Bridge Guardrail (Thrie Beam).

All steel connecting bolts and fasteners for posts and railing, and all anchor bolts, nuts, washers and plates shall be galvanized after fabrication. Protective coating and material requirement of steel railing shall be in accordance with Sec 1040.

Rail posts shall be set perpendicular to roadway profile grade, vertically in cross section and aligned in accordance with Sec 713 except that the rail posts shall be aligned by the use of shims such that the post deviates not more than 1/2 inch from true horizontal alignment after final adjustment. The shims shall be 3" x 1 3/4" and placed between the blockout and the thrie beam rail. The thickness of the shims shall be determined by the contractor and verified by the engineer before ordering material for this work.

At the expansion slots in the thrie beam rails and channels, the bolts shall be tightened and backed off one-half turn and the threads shall be burred.

At the thrie beam connection to blockout on wings, the bolts shall be tightened and backed off one-half turn and the threads shall be burred.

Minimum length of thrie beam sections is equal to one post space.

5/8"Ø button-head, oval shoulder bolts with 3/8" min. thickness hex nuts shall be used at all slots.

Thrie beam rail on the bridge shall be 12 gage steel.

Posts, cap rail angles, bent plates, channels and channel splice plates shall be fabricated from ASTM A709 Grade 36 steel and galvanized.

Washers shall be used at all post bolts between the bolt head and beam. The flat washers shall be rectangular in shape 3" x 1 3/4" x 3/16" minimum and with a 11/16" x 1" slot, or when necessary of such design as to fit the contour of the beam. A 3" x 1 3/4" x 5/8" rectangular washer shall be used between the blockout and the thrie beam rail.

Special drilling of the thrie beam may be required at the splices. All drilling details shall be shown on the shop drawings.

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

Expansion splices in the thrie beam rail shall be made at either the first or second post on either side of the joint and on structure at bridge ends. When the splice is made at the second post, an expansion slot shall be provided in the thrie beam rail for connection to the first post to allow for movement.

In addition to the expansion provisions at the expansion joints, expansion splices in the thrie beam rail and the channel shall be provided at other locations so that the maximum length without expansion provisions does not exceed 200 ft.

Contractor shall verify all dimensions before ordering materials.

Shim plates 6" x 6" x 1/16" may be used between the top of the post and the channel member as required for vertical alignment.

See slab sheet for rail post spacing.

Delineators shall be placed on top of the C8 x 11.5 cap rail as shown on Missouri Standard Plans 617.10 and in accordance with Sec 617. Delineators shall be affixed with 2-1 1/2" long x 1/4" diameter bolts. The diameter of the bolt's head shall be twice the diameter of the hole, with a minimum of 1/2". Washers shall be used with the bolts and shall have 1/2" diameter holes. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Delineators will be considered completely covered by the contract unit price for Bridge Guardrail (Thrie Beam).



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/25/2014

ROUTE 114 STATE MO

DISTRICT BR SHEET NO. 3

COUNTY STODDARD

J9S3054

CONTRACT ID.

PROJECT NO.

BRIDGE NO. J07401

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

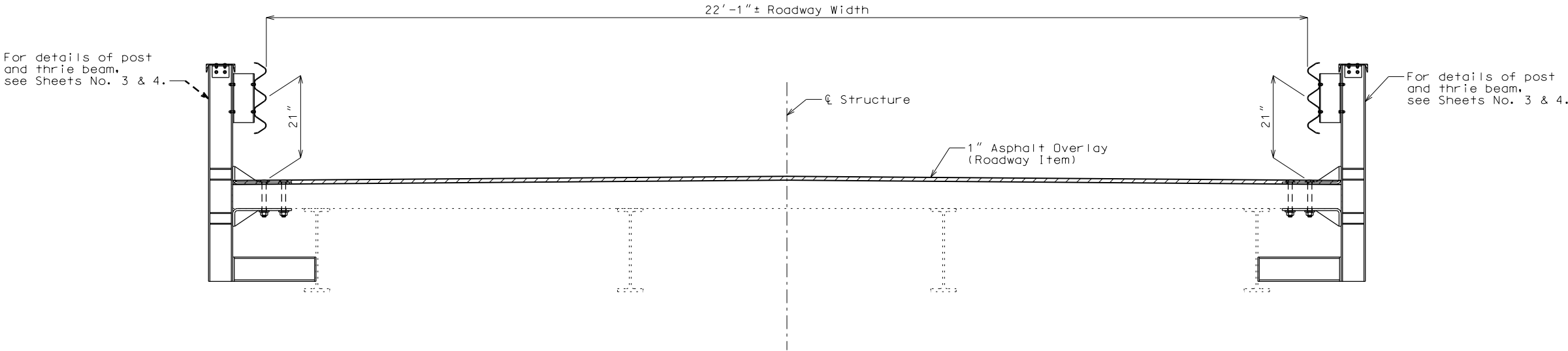
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
U.I.P. and Rehab. Existing (20')(25')(20') I-Beam Girder Span

SEC/SUR 7 TWP 25N RGE 12E

FINAL PLANS

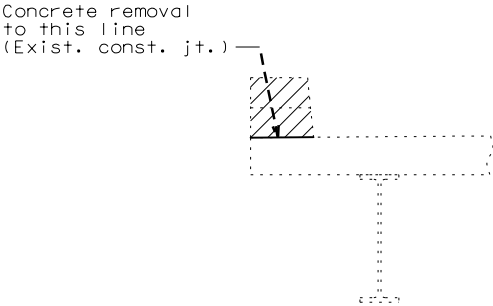


SECTION THRU SLAB

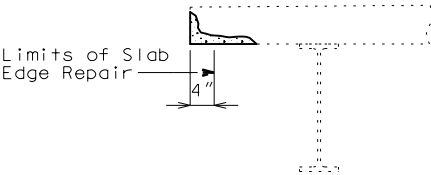
General Notes:

- Design Specifications:
2002 - AASHTO 17th Edition
Load Factor Design
Bridge Deck Rating = 4
- Traffic Control:
Traffic over structure to be maintained during construction.
- 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 shall be coated with an approved qualified special mortar in accordance with Sec 704.

Estimated Quantities		
Item		Total
Removal of Existing Curb and Rail	linear foot	150
Slab Edge Repair	linear foot	57.3
Bridge Guardrail (Thrie Beam)	linear foot	150



TYPICAL PART SECTION THRU
SLAB SHOWING AREA
OF CONCRETE CURB REMOVAL



TYPICAL PART SECTION THRU
SLAB SHOWING AREA
OF CONCRETE OVERHANG REPAIR

REPAIRS TO BRIDGE OVER DRAINAGE DITCH

STATE ROAD FROM ESSEX TO GRAY RIDGE
ABOUT 1.0 MILE EAST OF HUNTERVILLE
STA. 212+57.00± (Match Existing)

STD. 606.22
STD. 617.10

ROUTE 114	STA M0
DISTRICT BR	SHEET 2

COUNTY
STODDARD

JOB NO.
J9S3054

CONTRACT ID.
140523-H06

PROJECT NO.	FAF-S700(33
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BRIDGE NO.	J07401
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DATE	DESCRIPTION



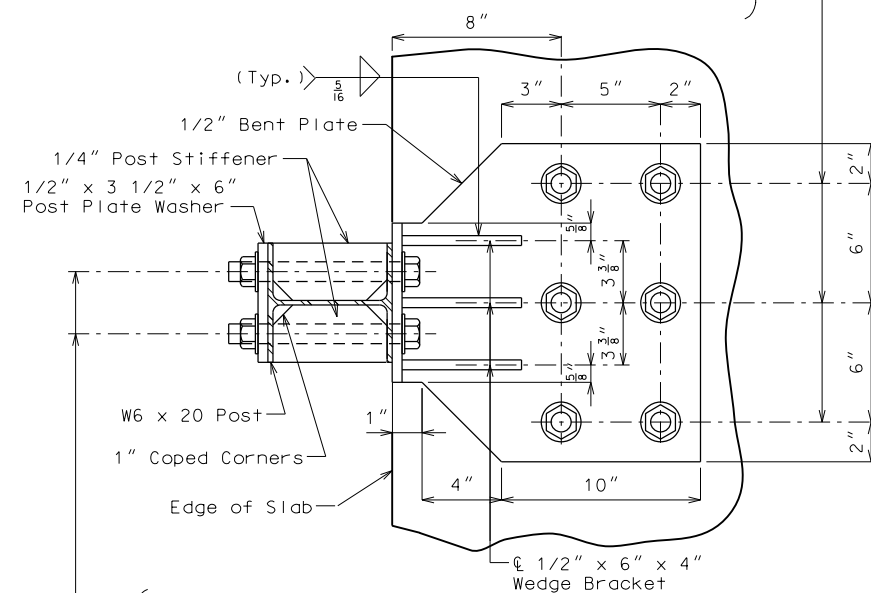
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL



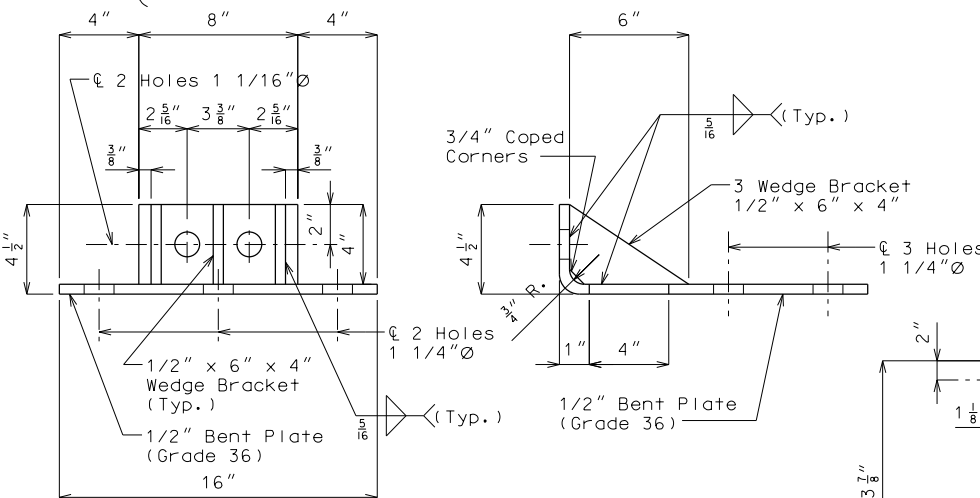
Work this sheet with Sheets No. 1, 3 & 4.

Bent Plate-to-Deck Conn.
2 Drilled holes 1 1/8" (min.) in slab or as recommended by manufacturer
2 Holes 1 1/4" in bent plate
2 1" A449 H.S. Round head bolts, snug tight.
2 Hardened locking washers 2 1/2"

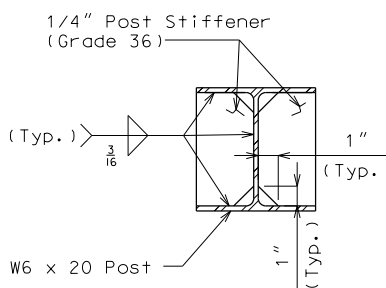


SECTION C-C

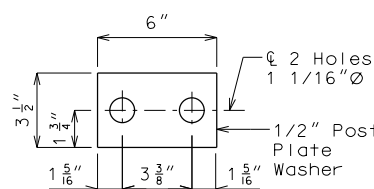
Post-to-Bent Plate Conn.
1 Bolt 1" A325 H.S. with hardened washers
1 Vertical slotted hole 1 1/16" x 1 1/2" in post flanges
1 Holes 1 1/16" in bent plate and post plate washer



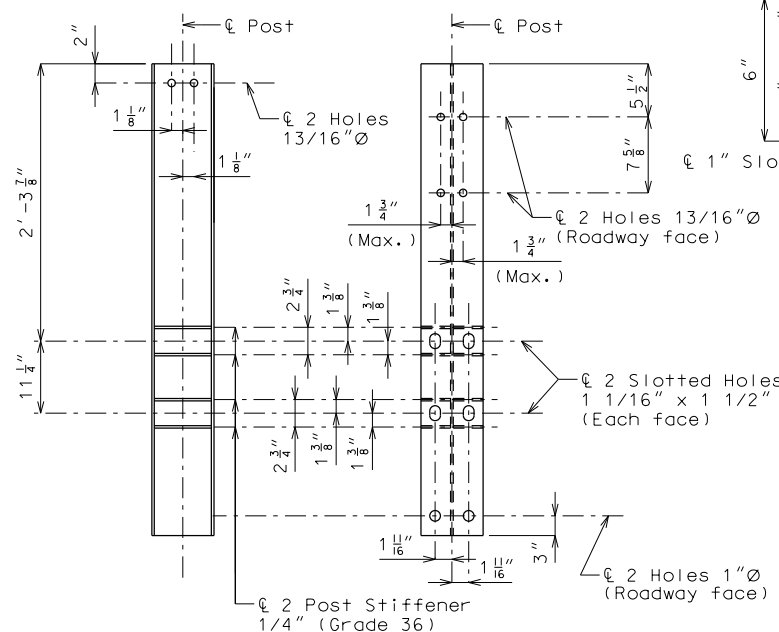
1/2" BENT PLATE AND WEDGE BRACKET



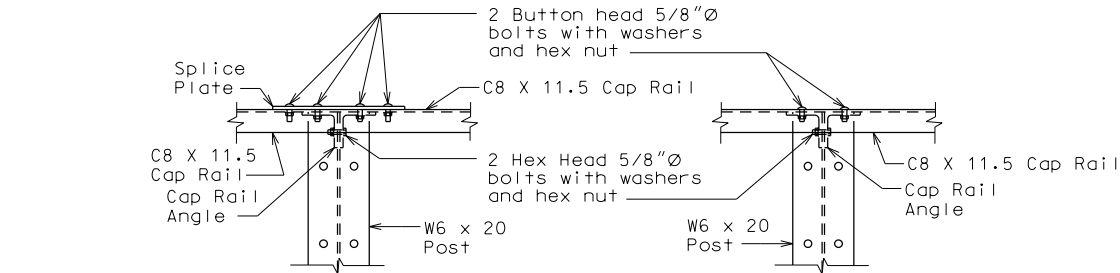
POST STIFFENER



POST PLATE WASHER

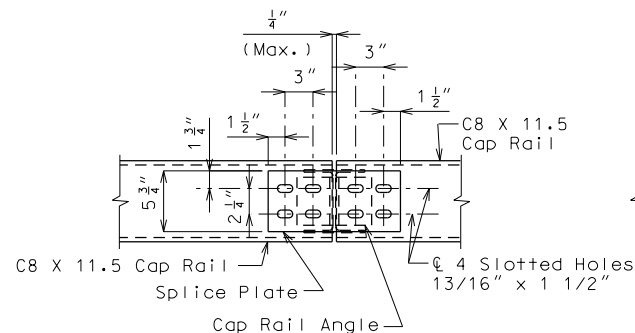


DETAILS OF POST

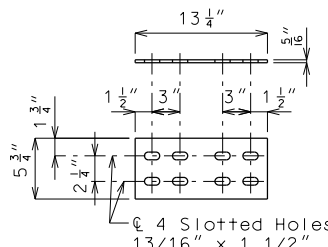


TYPICAL SPLICE ELEVATION

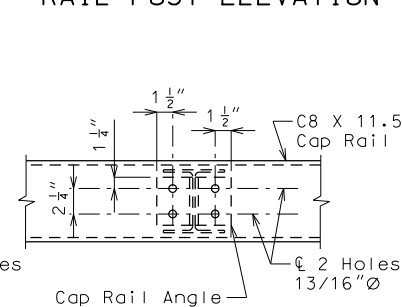
CONNECTION TO RAIL POST ELEVATION



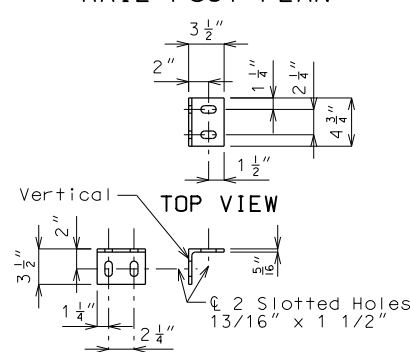
TYPICAL SPLICE PLAN



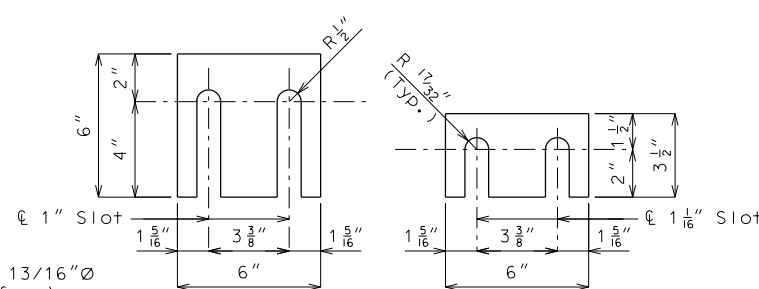
SPLICE PLATE



CONNECTION TO RAIL POST PLAN



SIDE VIEW
CAP RAIL ANGLE
2 3 1/2 x 3 1/2 x 5/16



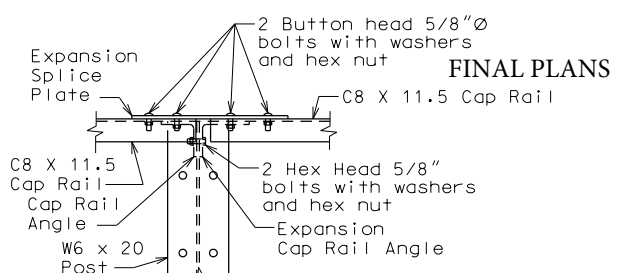
DETAIL OF SHIM PLATES

Notes:

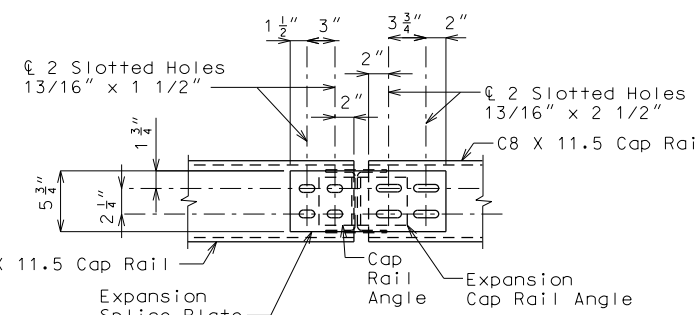
Shim plates 6" x 6" x 1/16" may be used between post W6 x 20 and 6" x 6" x 3/8" plate and shim plates 6" x 3 1/2" x 1/16" may be used between post W6 x 20 and 1/2" bent plate connection as required for horizontal alignment.

Shim plates may vary in thickness from 1/16" to the thickness required, and may be used in multiples.

Shim plate shall be galvanized after fabrication.

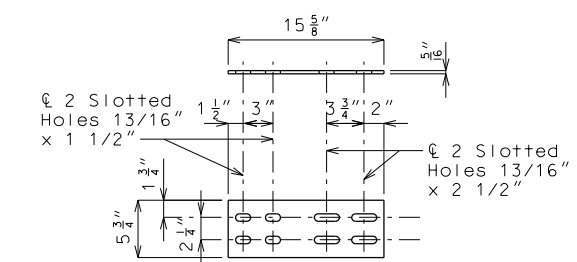


EXPANSION SPLICE ELEVATION

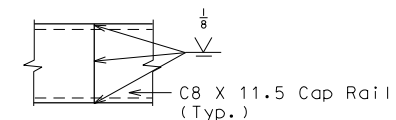


EXPANSION SPLICE PLAN

Expansion slots same side of post as exp. joint

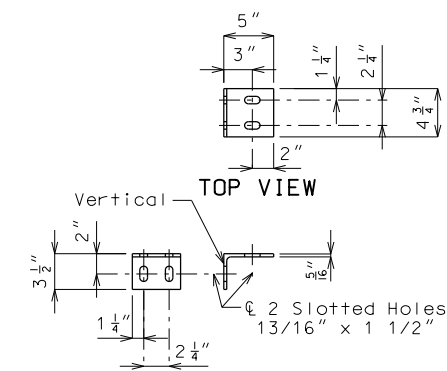


EXPANSION SPLICE PLATE



OPTIONAL SPLICE

Shop or field splice at any location (Max. one per panel)



EXPANSION CAP RAIL ANGLE
2 5 x 3 1/2 x 5/16

DATE PREPARED

ROUTE 114 STATE MO
DISTRICT BR SHEET NO. 4

COUNTY STODDARD
JOB NO. J9S3054
CONTRACT ID. 140523-H06
PROJECT NO. FAF-S700(33)
BRIDGE NO. J07401

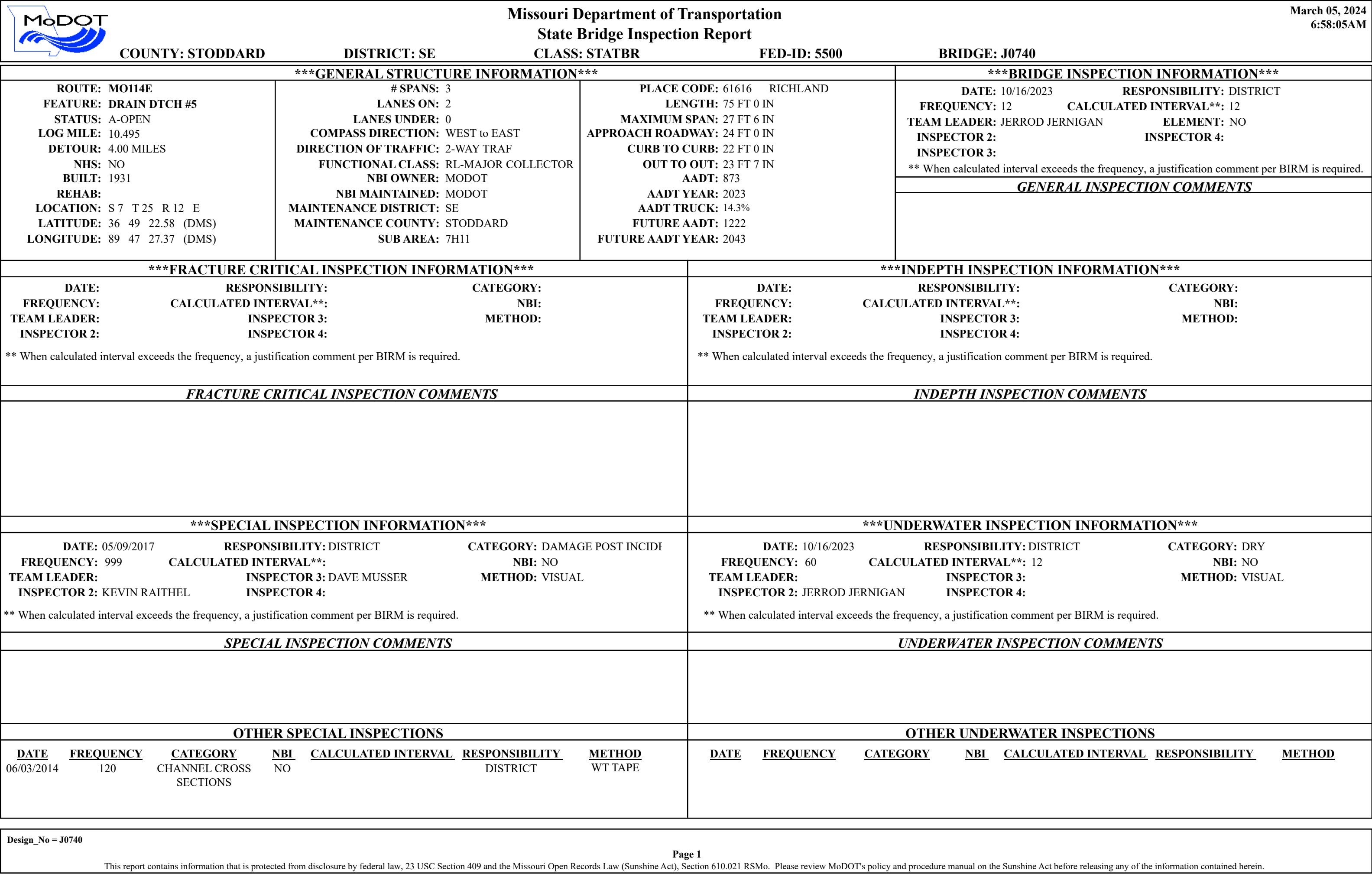
DESCRIPTION


DATE

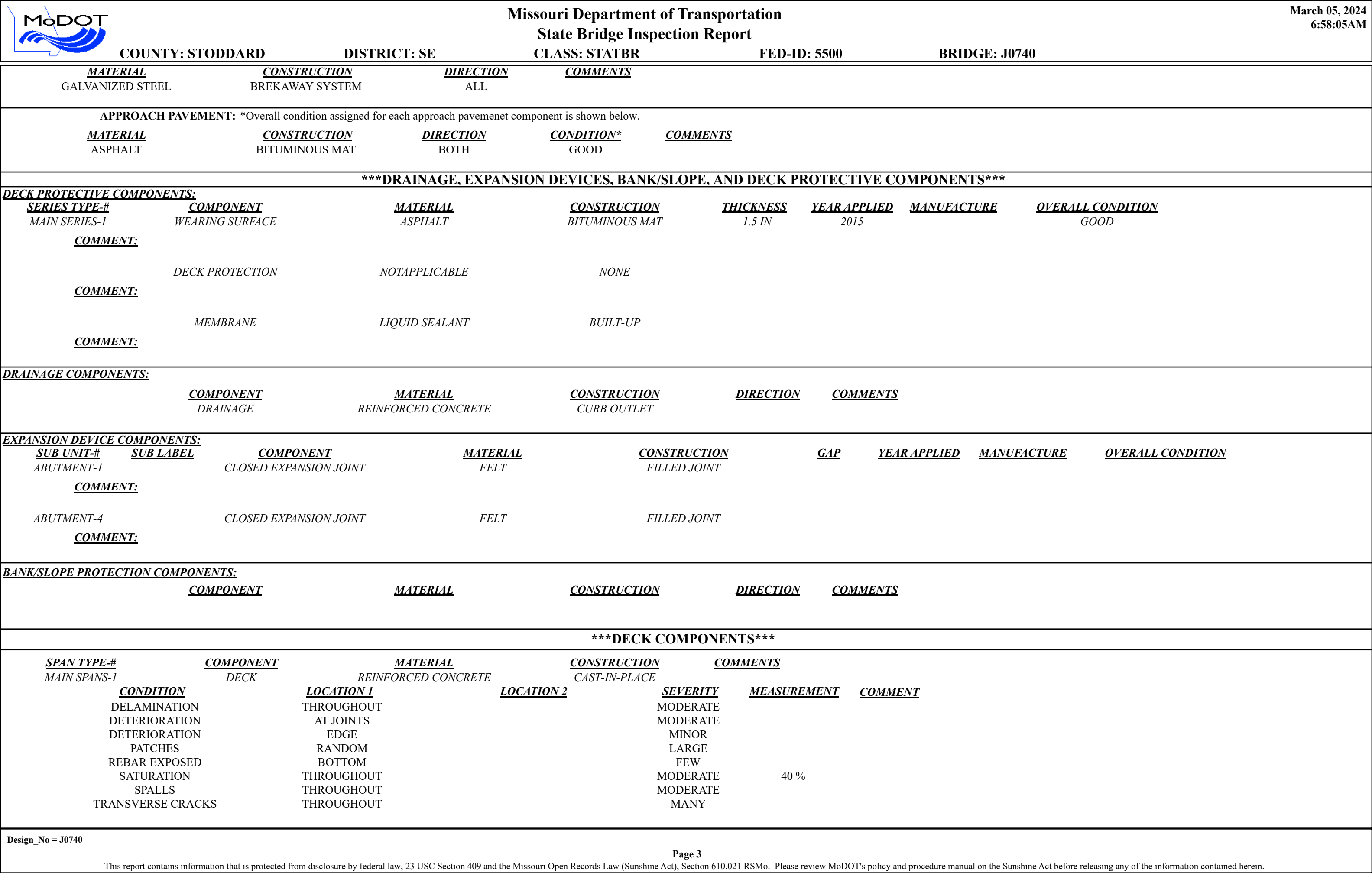
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

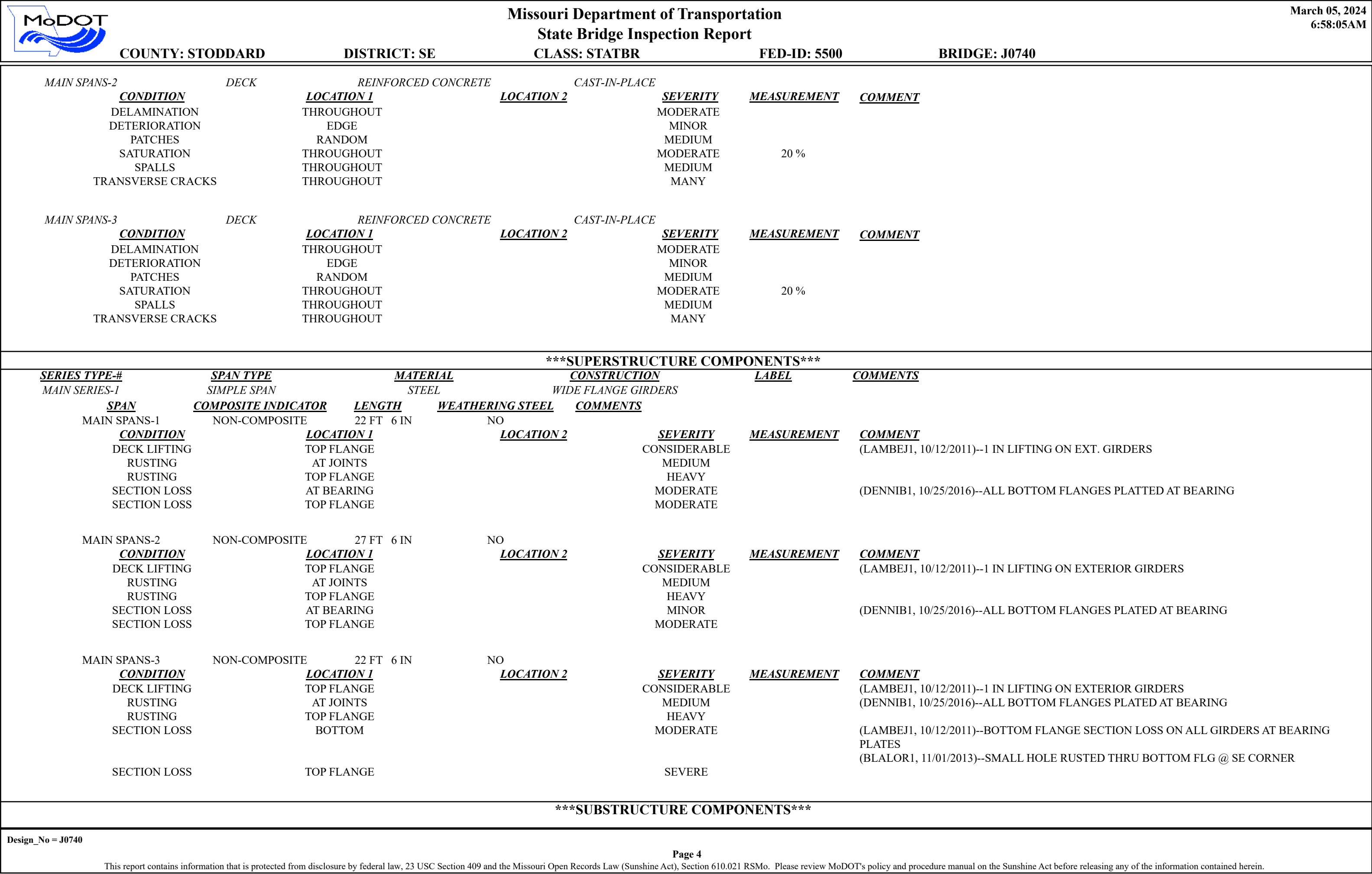
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)





		Missouri Department of Transportation			March 05, 2024	
		State Bridge Inspection Report			6:58:05AM	
COUNTY: STODDARD		DISTRICT: SE	CLASS: STATBR	FED-ID: 5500	BRIDGE: J0740	
STRUCTURE POSTING						
APPROVED CATEGORY: S-1		NO POSTING REQUIRED				
Ton 1:		Ton 2:		Ton 3:		
COMMENTS:						
FIELD CATEGORY: S-1		NO POSTING REQUIRED				
Ton 1:		Ton 2:		Ton 3:	PROBLEM:	PROBLEM DIRECTION:
COMMENTS:						
GENERAL COMMENTS/MAJOR RATED ITEMS						
GENERAL COMMENTS: (BOWDEJ1, 09/12/2008)--(22'-27'-22') SMP WF GDR SPANS						
[ITEM 58] DECK: 4-POOR CONDITION			COMMENTS: (DENNIB1, 10/27/2015)--40% SATURATION			
RATING : 10/12/2011						
[ITEM 59] SUPER: 5-FAIR CONDITION			COMMENTS: (DENNIB1, 10/25/2016)--SEC LOSS TOP FLG DECK LIFTING 1"			
RATING : 10/12/2011						
[ITEM 60] SUB: 5-FAIR CONDITION			COMMENTS: (BLALOR1, 10/30/2013)--MODERATE DISINTEGRATION AND SPALLS NEAR BRG AREAS, BACKWALL SPALLED			
RATING : 10/12/2011						
[ITEM 61] BANK/CHANNEL: 6-WIDESPREAD MINOR DAMAGE			COMMENTS:			
RATING : 05/18/2001						
[ITEM 113] SCOUR: 8-STABLE FOR CALCULATED			COMMENTS:			
RATING : 05/18/2001						
EVALUATION TYPE :						
[ITEM 71] WATERWAY ADEQUACY: DECK ABOVE FLOOD ELEV			COMMENTS:			
RATING : 05/18/2001						
[ITEM 72] APPRRDWY ALIGNMENT: 8-VERYGOOD			COMMENTS:			
RATING : 05/18/2001						
RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS						
[ITEM 36A] BRIDGE RAILING RATING: MEETS CURRENT STANDARDS-1		RATING : 08/12/2015		COMMENTS:		
<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>			
STEEL	OTHER	BOTH	(DENNIB1, 10/30/2019)--THRIE BEAM			
[ITEM 36B] TRANSITION RAILING RATING: MEETS CURRENT STANDARDS-1		RATING : 08/12/2015		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 : 08/12/2015		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 : 08/12/2015		COMMENTS:		
Design_No = J0740						
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 State Bridge Inspection Report

March 05, 2024
6:58:05AM

COUNTY: STODDARD

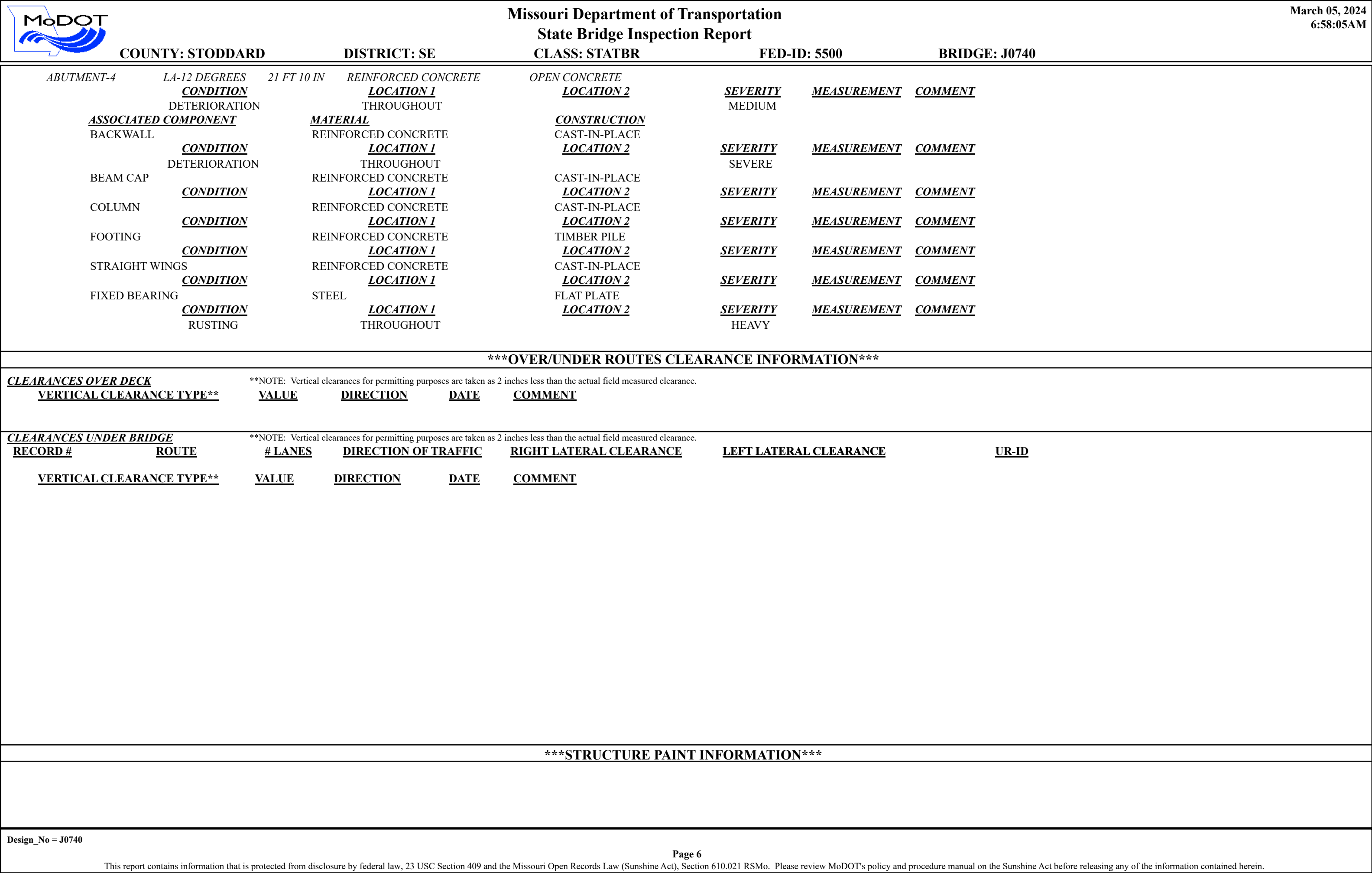
DISTRICT: SE


CLASS: STATBR

FED-ID: 5500

BRIDGE: J0740

<u>SUBSTRUCTURE</u>	<u>SKEW</u>	<u>LENGTH</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>	<u>COMMENTS</u>
ABUTMENT-1	LA-12 DEGREES	21 FT 10 IN	REINFORCED CONCRETE	OPEN CONCRETE		
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>			<u>MATERIAL</u>	<u>CONSTRUCTION</u>		
BACKWALL			REINFORCED CONCRETE	CAST-IN-PLACE		
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
BEAM CAP			REINFORCED CONCRETE	CAST-IN-PLACE		
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
	OTHER SPALLS		BEAM CAP THROUGHOUT		NOT APPLICABLE MINOR	
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>
FOOTING			REINFORCED CONCRETE	TIMBER PILE		
	<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>
	SPALLS		RANDOM		MODERATE	
FIXED BEARING			STEEL	FLAT PLATE		
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
	RUSTING		THROUGHOUT		HEAVY	
BENT-2	LA-12 DEGREES	23 FT 0 IN	REINFORCED CONCRETE	MULTIPLE COLUMN		
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>			<u>MATERIAL</u>	<u>CONSTRUCTION</u>		
BEAM CAP			REINFORCED CONCRETE	CAST-IN-PLACE		
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
	HORIZONTAL CRACKS		THROUGHOUT		MANY	
	VERTICAL CRACKS		THROUGHOUT		MANY	
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>
	SPALLS		THROUGHOUT		FEW	
	VERTICAL CRACKS		THROUGHOUT		MEDIUM	
FOOTING			REINFORCED CONCRETE	TIMBER PILE		
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
FIXED BEARING			STEEL	FLAT PLATE		
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
	RUSTING		THROUGHOUT		MODERATE	
BENT-3	LA-12 DEGREES	23 FT 0 IN	REINFORCED CONCRETE	MULTIPLE COLUMN		
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>			<u>MATERIAL</u>	<u>CONSTRUCTION</u>		
BEAM CAP			REINFORCED CONCRETE	CAST-IN-PLACE		
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
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		GROUND LINE		MEDIUM	
FOOTING			REINFORCED CONCRETE	TIMBER PILE		
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
FIXED BEARING			STEEL	FLAT PLATE		
	<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
	RUSTING		THROUGHOUT		HEAVY	



		Missouri Department of Transportation				March 05, 2024																																										
		State Bridge Inspection Report				6:58:05AM																																										
COUNTY: STODDARD		DISTRICT: SE		CLASS: STATBR		FED-ID: 5500																																										
						BRIDGE: J0740																																										
CONDITION: FAIR		RUST AMOUNT : 7 = .2% OF SURFACE RUSTED		STEEL TONS : 11																																												
<u>ORIGINAL PAINT</u>		<u>CONTRACT REPAINT</u>		<u>DEPARTMENT REPAINT</u>																																												
PAINT TYPE :		PAINT TYPE :		PAINT TYPE : S SYSTEM		MANUFACTURE :WATSON																																										
NAME :		NAME :		NAME : CAL SULPH/LEAD PAINT		SURFACE PREP :HAND CLEANED																																										
PAINT COLOR :		PAINT COLOR :		PAINT COLOR : GRAY																																												
PAINT YEAR :		PAINT YEAR :		PAINT YEAR : 2008																																												
MILS :		MILS :		MILS : 12																																												
REQUESTED WORK ITEMS																																																
GENERAL WORK COMMENTS:																																																
<table><tr><td>RESPONSIBILITY</td><td>LOCATION</td><td>ITEM</td><td>CATEGORY</td><td>PRIORITY</td><td>DATE</td><td colspan="2">WORK ITEM COMMENT</td></tr></table>								RESPONSIBILITY	LOCATION	ITEM	CATEGORY	PRIORITY	DATE	WORK ITEM COMMENT																																		
RESPONSIBILITY	LOCATION	ITEM	CATEGORY	PRIORITY	DATE	WORK ITEM COMMENT																																										
UTILITY ATTACHMENTS																																																
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YEAR	PROJECT #	MONTH LET	YEAR LET	ITEMS	COMMENT																																											
2025	9S3725	0	2025	REPLACE BRIDGE																																												
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>5-BETTER THAN MINIMUM</td><td>1/21/2011</td></tr><tr><td>[Item 68] Deck Geometry Rating:</td><td>4-MEETS MINIMUM TOLERABLE</td><td>1/7/2009</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>57.0%</td><td>3/8/2022</td></tr><tr><td>Deficiency:</td><td>STRUCTURAL</td><td>11/15/2011</td></tr><tr><td>Funding Eligibility:</td><td></td><td>----</td></tr><tr><td>Estimated New Structure Length:</td><td></td><td>----</td></tr><tr><td>Estimated Structure Cost:</td><td></td><td>----</td></tr><tr><td>Estimated Total Project Cost:</td><td></td><td>----</td></tr><tr><td>Year of Cost Estimate:</td><td></td><td>----</td></tr></table> <div>NOTE: The above structure length and cost estimates are computer generated using algorithms in the TMS system. These algorithms are generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.</div>					<u>Rated Item</u>	<u>Rating</u>	<u>Rating Date</u>	[Item 67] Structure Evaluation Rating:	5-BETTER THAN MINIMUM	1/21/2011	[Item 68] Deck Geometry Rating:	4-MEETS MINIMUM TOLERABLE	1/7/2009	[Item 69] Underclearance:	N-NOT APPLICABLE	5/18/2001	Sufficiency Rating:	57.0%	3/8/2022	Deficiency:	STRUCTURAL	11/15/2011	Funding Eligibility:		----	Estimated New Structure Length:		----	Estimated Structure Cost:		----	Estimated Total Project Cost:		----	Year of Cost Estimate:		----	<table><tr><td>SIGN #</td><td>SIGN TYPE</td><td>PROBLEM</td><td>PROBLEM DIRECTION</td></tr><tr><td>1</td><td></td><td></td><td></td></tr></table>			SIGN #	SIGN TYPE	PROBLEM	PROBLEM DIRECTION	1			
					<u>Rated Item</u>	<u>Rating</u>	<u>Rating Date</u>																																									
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					OUTFALL INSPECTION INFORMATION																																											
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STATUS:	DATE:																																															
NOTES:																																																



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

March 5, 2024
7:01:16am

COUNTY : STODDARD BRIDGE : J0740 1 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 1/17/2024 SUBMITTAL YEAR : 2023

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	SE	5B	Route Signing Prefix	MO
3	County	STODDARD	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	5500	5D	Route Number	00114
27	Year Built	1931	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	MO 114 E
42A	Type of Service On	HIGHWAY	12	Base Hwy. Network	NO
21	Structure Maintenance	STATE HIGHWAY AGENCY	13A	LRS Inventory Route No.	
22	Structure Owner	STATE HIGHWAY AGENCY	13B	Subroute No.	
33	Br. Median Code	NO MEDIAN	20	Toll Status	ON FREE ROAD
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP	26	Functional Classification	07-RURAL MAJOR COLLECTOR
101	Parallel Struc Desg	NONE EXISTS	28A	Lanes on Structure	02
103	Temporary Structure	NOT TEMPORARY	100	STRAHNET Designation	RTE NOT A DEFENSE HWY
112	NBIS Bridge Length	YES	104	National Highway System	NOT ON NHS
			105	Federal Lands Highway	NOT APPLICABLE
			110	Designated Nat. Network	NO
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	RICHLAND	29	AADT	864
	Code	61616	30	AADT Year	2022
9	Location	S 7 T 25 N R 12 E	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	10.56 miles	109	AADT Truck Percent	14%
16	Latitude	36 D 49 M 23 S	114	Future AADT	1210
17	Longitude	89 D 47 M 27 S	115	Future AADT Year	2042
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	DRAIN DTCH #5	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	WATERWAY	19	By pass Detour Length	3.75 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	23 Ft. 11 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	12.00 Degrees
54B	Vert. Clearance	0 Ft. 0 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	N/A	47	Total Horiz. Clear	21 Ft. 12 In.
55B	Rt. Lat Clearance	0 Ft. 0 In.	48	Maximum Span Length	27 Ft. 7 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	75 Ft. 2 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	21 Ft. 12 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	23 Ft. 7 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design_No = J0740 and Inventory_Appraisal_Submittal_Year = 2023



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Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

March 5, 2024
7:01:16am

COUNTY : STODDARD BRIDGE : J0740 1 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 1/17/2024 SUBMITTAL YEAR : 2023

LOAD RATING AND POSTING INFORMATION			MATERIAL/CONSTRUCTION INFORMATION		
31	Design Load	H 15	43A	Main Struc. Mat type	STEEL
41	Structure Status	OPEN NO RESTRICTIONS	43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
63	Oper. Rating Meth.	LOAD FACTOR	45	# of Main Spans	3
64	Operating Rating	40 Tons.	44A	Appr Struc. Mat type	000
65	Inventory Rating Meth	LOAD FACTOR	44B	Appr Struc. Cnstr. type	000
66	Inventory Rating	24 Tons.	46	# of Approach Span	0
70	Bridge Posting Code	=>LEGAL LOADS	107	Deck Mat/Constr.	1 CONCRETE CIP
PROPOSED IMPROVEMENT INFORMATION			108A	Wear Surf Mat/Constr.	6 BITUMINOUS
Sufficiency Rating 57.0 Percent			108B	Membrane Mat/Constr.	1 BUILT UP
Deficiency Rating STRUCTURAL			108C	Deck Protect Mat/Constr.	0 NONE
Funding Eligibility PARTIAL			CONDITION RATING INFORMATION		
75A	Proposed Work	REHAB-GENERAL DETERIORAT	58	Deck Cond. Rating	4
75B	Work Done By	Contract	59	Superstructure Cond. Rating	5
76	New Struc Length	101 Ft. 8 In.	60	Substructure Cond. Rating	5
94	Struc Improve Cost	\$ 402,000	61	Channel /Channel Protection Cond. Rating	6
95	Roadway Improve Cost	\$ 40,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 603,000	INSPECTION INFORMATION		
97	Year of Cost Estimates	2024	90	Gen. Insp Date	10 / 23
APPRAISAL RATING INFORMATION			91	Gen. Insp. Frequency	12 Months
36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND	92A	Frac. Critical Inspection	N Months
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND	93A	Frac. Critical Insp. Date	
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND	92B	Underwater Inspection	N Months
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND	93B	Underwater Insp. Date	
67	Struc Eval App. Rating	5	92C	Special Inspection	N Months
68	Deck Geometry App. Rating	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-1			Field Posting Category S-1		
Ton1 Ton2 Ton3			Ton1 Ton2 Ton3		
Tonnage Values for Posting Sign			Tonnage Values for Posting Sign		
General Text for Posting Sign			General Text for Posting Sign		
NO POSTING REQUIRED			NO POSTING REQUIRED		

Design_No = J0740 and Inventory_Appraisal_Submittal_Year = 2023