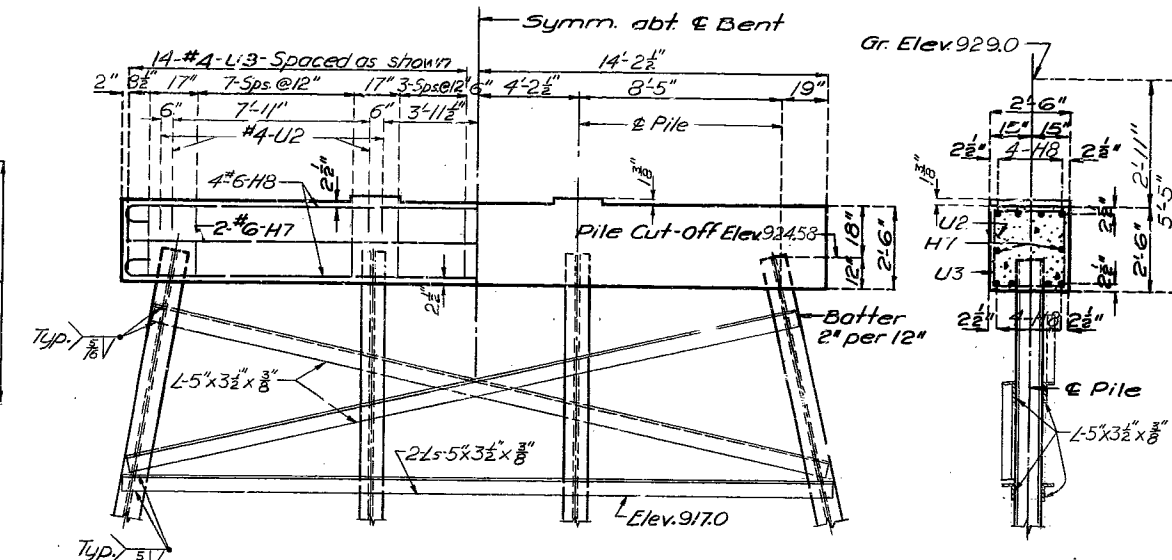


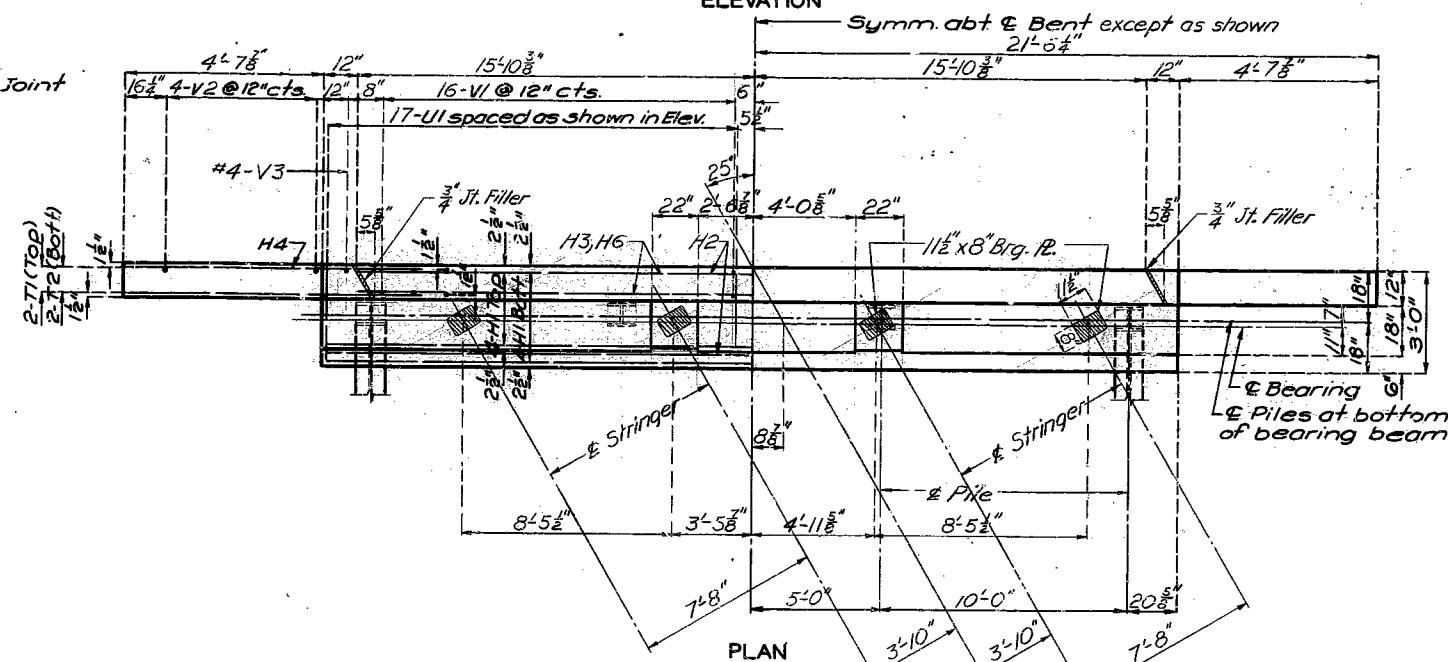


244

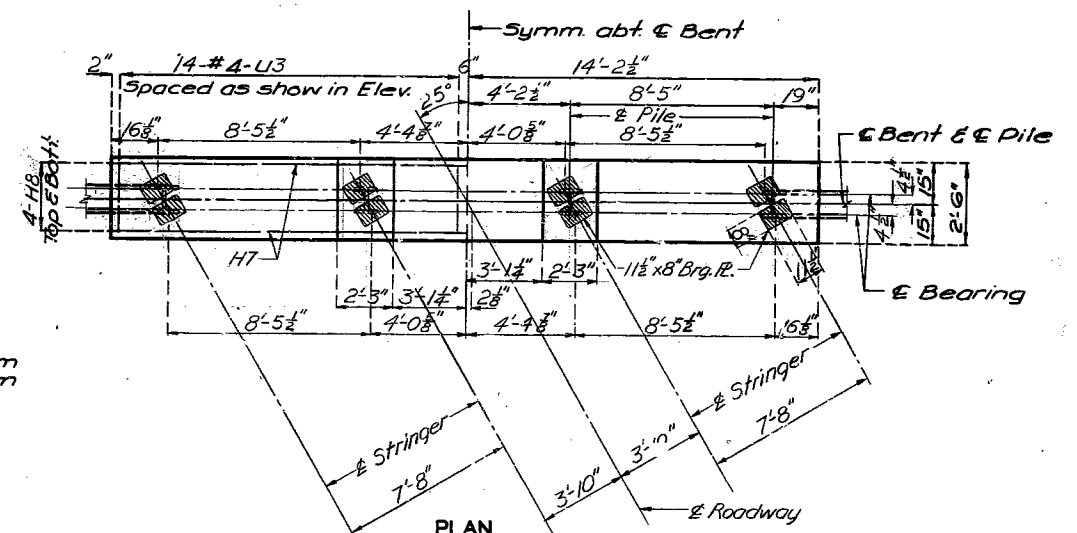
Revised	No. 9.1
	Mar. 1964



**SECTION AT C**

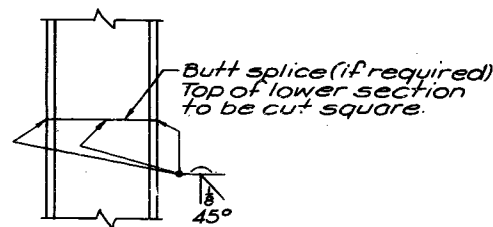


### DETAILS OF END BENTS NO.1 & 4



### DETAILS OF INTERMEDIATE BENTS NO. 2 & 3

Note: Fill at end bents No. 1 & 4 shall not be carried above bottom of beam and wings until adjacent superstructure span is in place.



DETAILED NOV. 1964 BY LESLIE  
CHECKED JAN. 1965 BY LINDSEY

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

Sheet No. 2 of 5.

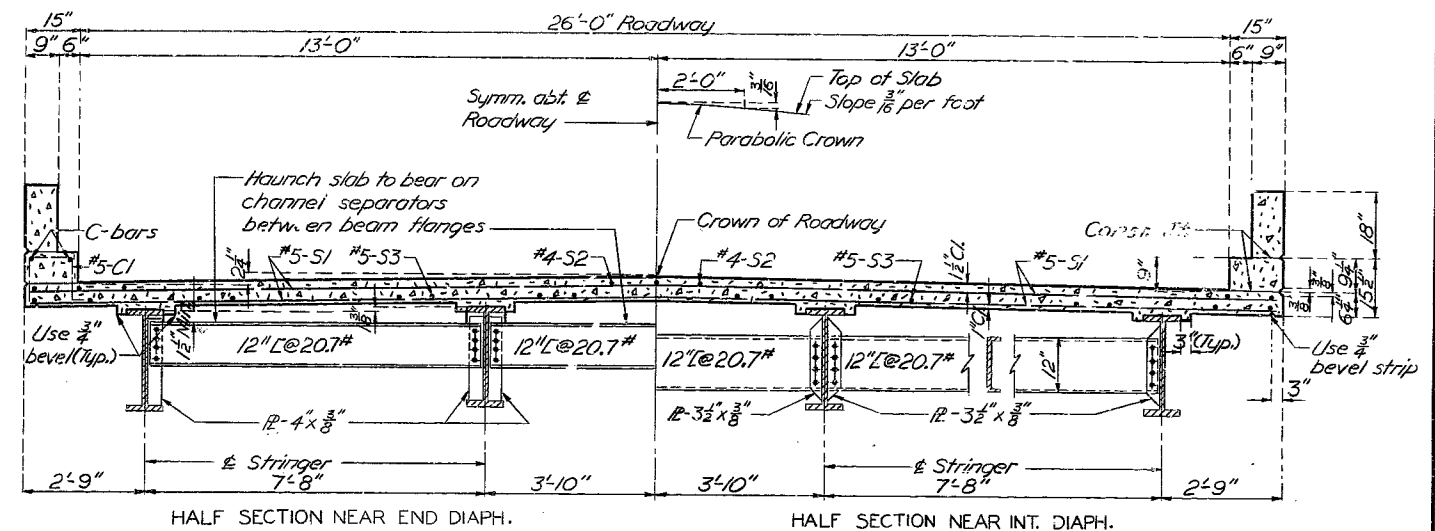
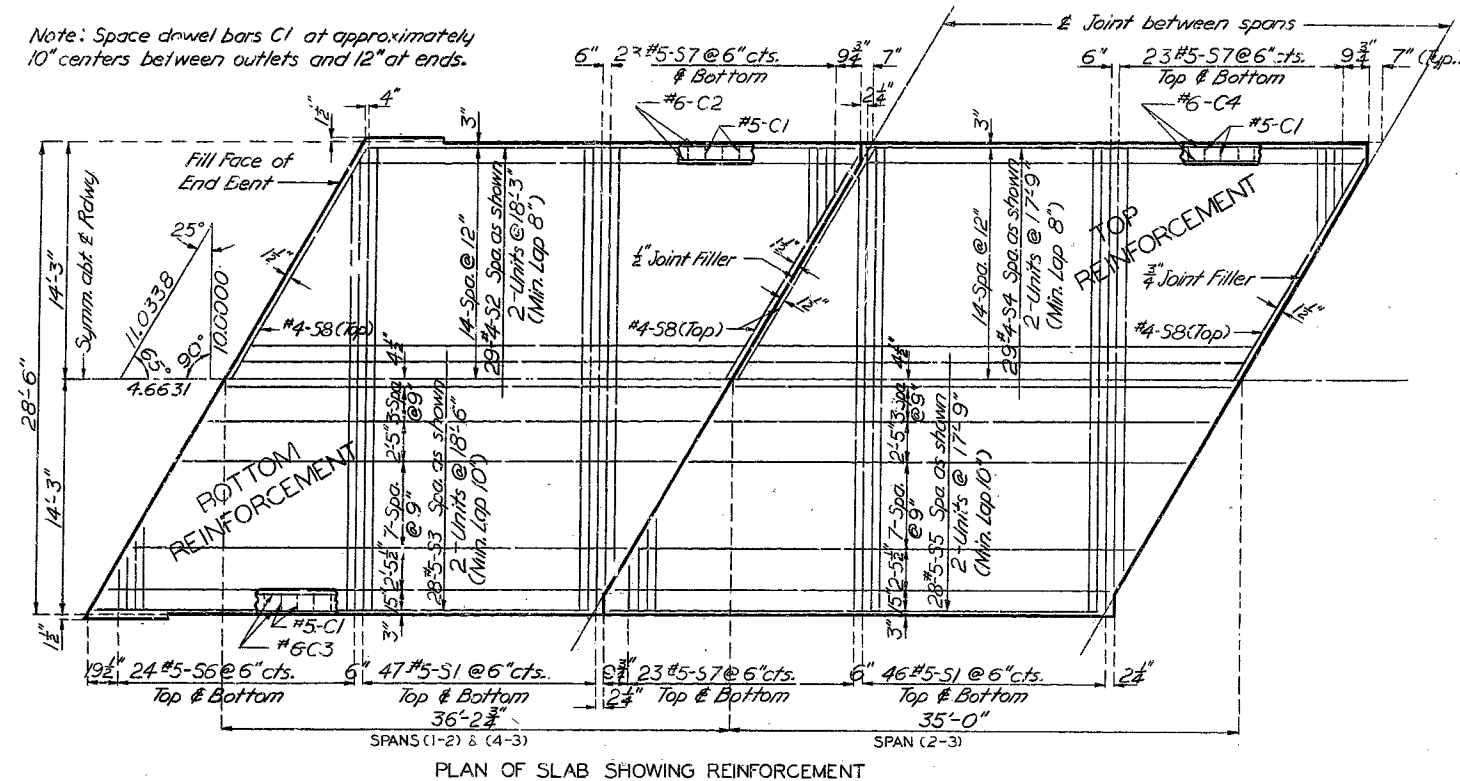
R-561

NO CONSTRAINTS ON CODE

# MISSOURI STATE HIGHWAY DEPARTMENT

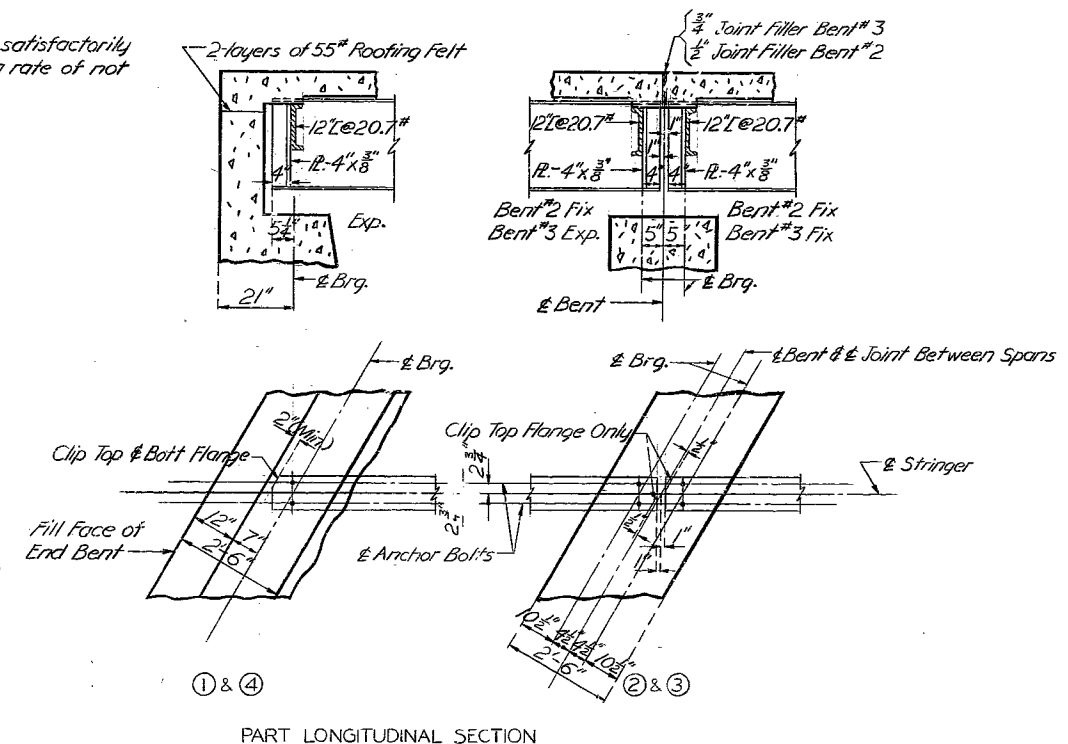
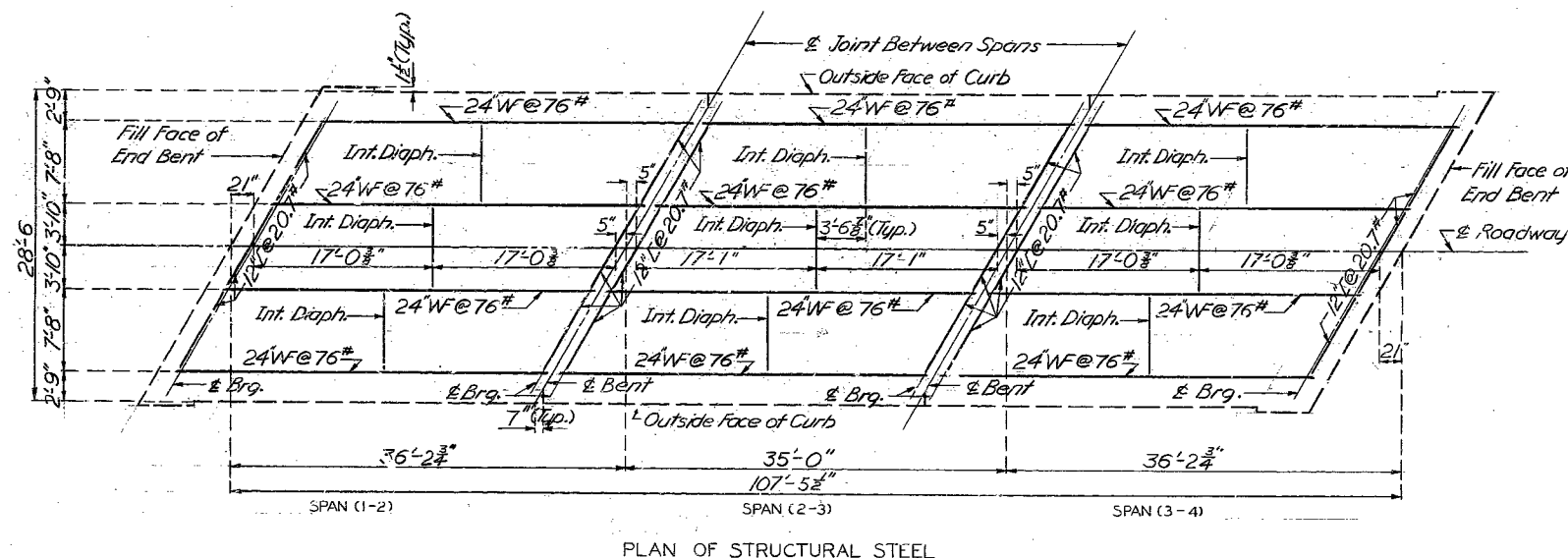
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	10	

Note: Space draw bars C1 at approximately 10" centers between outlets and 12" at ends.

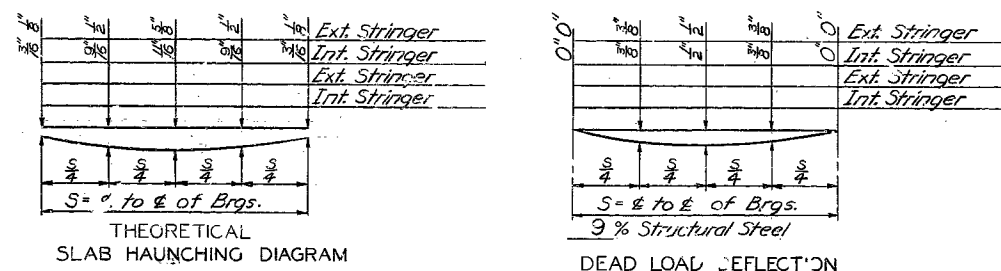


Note: Slab to be constructed parallel to grade and to a minimum thickness of 6 1/4\"/>

Note: The contractor shall pour and satisfactorily finish the concrete roadway slab at a rate of not less than 11 cubic yards per hour.



Note: Haunch slab to the top of stringers by the dimensions shown. Dead load deflection is included in the haunches. The additional concrete (flange excluded) is included in Estimated Quantities.



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

DETAILED NOV. 1964 BY LESLIE  
CHECKED JAN. 1965 BY LINDSEY

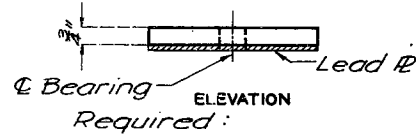
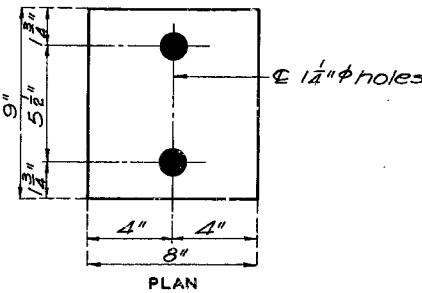
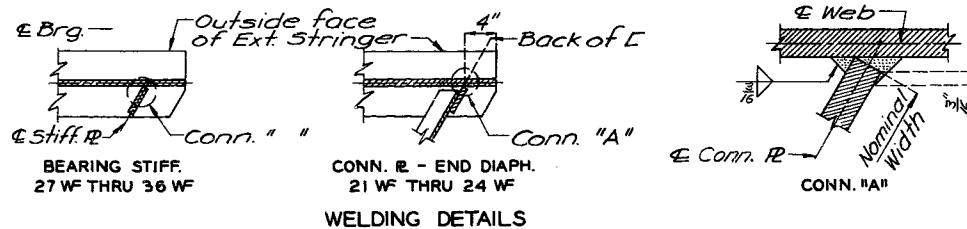
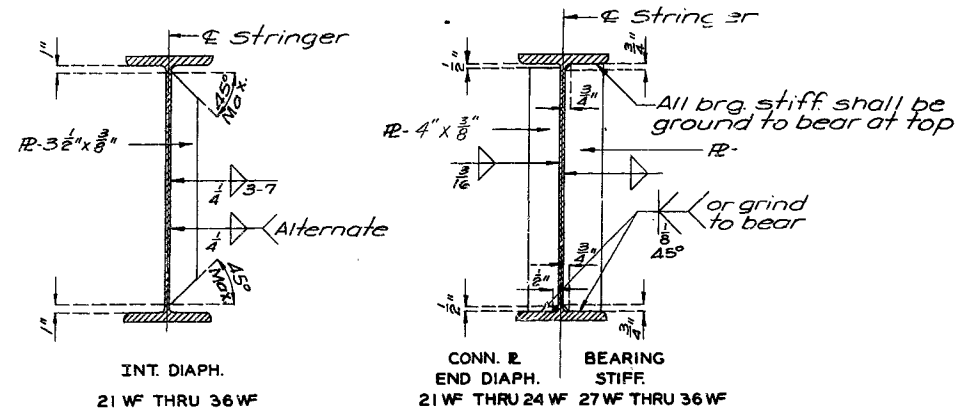
Sheet No. 3 of 5.

**BRIDGE OVER UPPER PEAVINE CREEK**  
**STATE ROAD** FROM ROUTE 28 EAST TO ROUTE SH  
**ABOUT** 8.0 MILES S. OF BELLE  
**PROJECT NO.** RTE. SF-SEC. 63 (1) **STA.** 62+56.0  
**MARIES COUNTY**

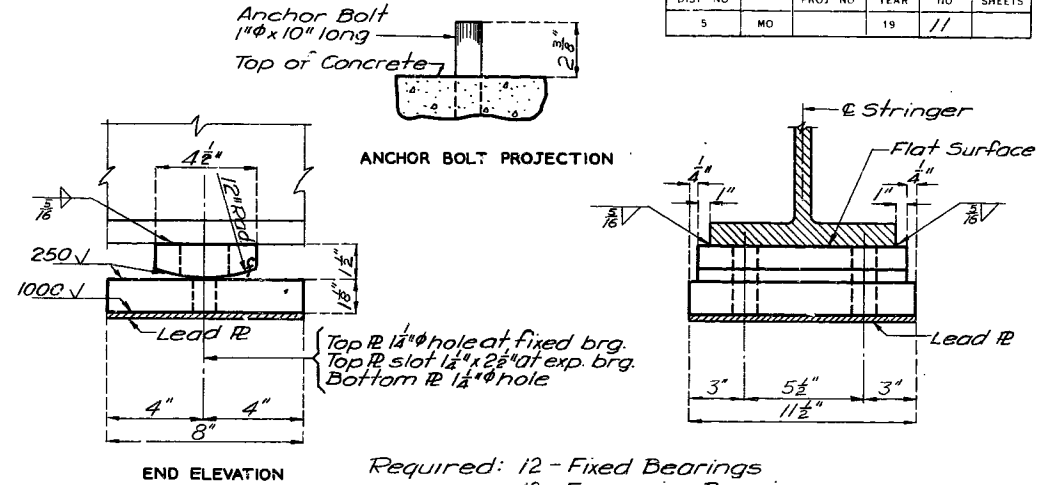
R-561

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO		19	11	



DETAILS OF FLAT PLATE BEARINGS-SPANS C  
(Estimated Weight #)



TYPE "C" BEARINGS  
(Estimated Weight 1127 #)

GENERAL NOTES:

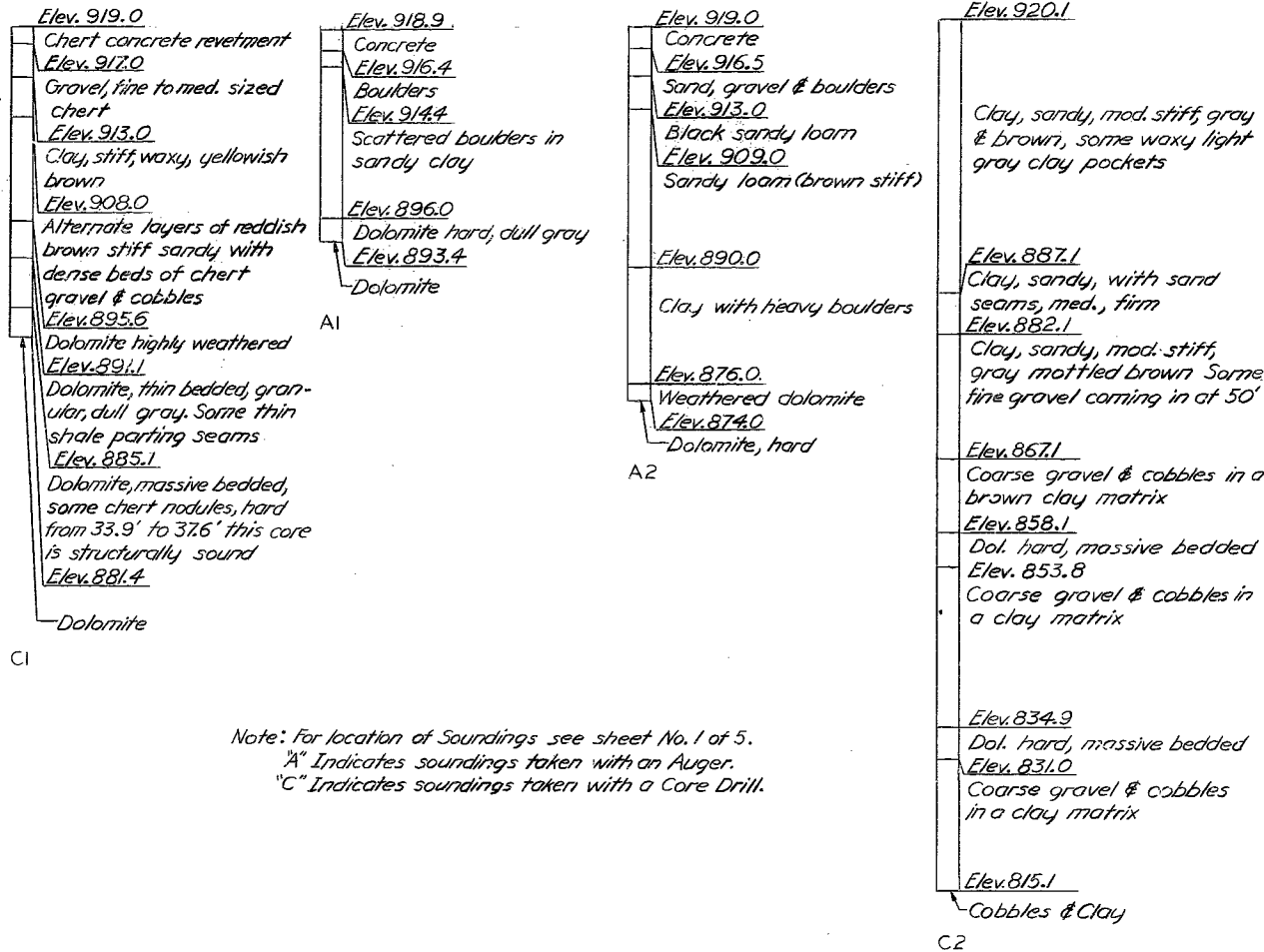
Lead Plates under bearings shall be approximately 5/8" thickness and weigh 8 #/sq. ft. Cost of lead plates shall be included in price bid for other items.  
"Estimated Weight" does not include weight of anchor bolts.

NOTES: TYPE "C" BEARINGS

Anchor Bolts for Type "C" Bearings shall be 1" x 10" swaged bolts, 10" long with no heads or nuts. Top of Anchor Bolts shall be set approximately 1/4" below top of bearing.

NOTES: FLAT PLATE BEARINGS

Flat plate bearing shall be Fabricated Structural Carbon Steel and straightened to plane surfaces.  
Anchor bolts shall be 1" x 10" swaged bolts, 10" long with no heads or nuts. Top of anchor bolts shall be set approximately 1/2" above top of bottom flange.  
Bottom flange of beam to have 1 1/2" x 2 1/2" holes at fixed end and 1 1/2" x 2 1/2" slots at expansion end.



Note: For location of Soundings see sheet No. 1 of 5.  
"A" Indicates soundings taken with an Auger.  
"C" Indicates soundings taken with a Core Drill.

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

Sheet No. 4 of 5

NO CONSTRUCTION CHANGES

BRIDGE OVER UPPER PEAVINE CREEK

STATE ROAD FROM ROUTE 28 EAST TO ROUTE 5H  
ABOUT 8.0 MILES S. OF BELLE  
PROJECT NO. RTE. 5F-SEC. 63 (U) STA. 62+56.0

MARIES COUNTY

R-561

No. 4011A Revised  
Aug. 1963 Nov. 1963

DETAILED NOV. 1964 BY LESLIE  
CHECKED JAN. 1965 BY LINDSEY

# MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO		19	12	

## GENERAL NOTES:

All handrail posts shall be set normal to grade. Aluminum tube handrail shall be bent to conform to vertical and horizontal alignment of parapet.

Aluminum washer shims between top of parapet and post base may be used for adjusting handrail alignment. Maximum thickness of shims to be  $\frac{1}{8}$ ". Where more tilting of post is required for proper alignment, concrete bearing areas shall be ground down.

All parts of handrail, except anchor bolts, nuts, washers, and set screws are to be of aluminum material.

The contract unit price per linear foot of "Bridge Rail" shall include furnishing and erecting the handrail complete with anchor bolts, shims and insulating compound.

All fillets  $\frac{1}{4}$ " except as noted.

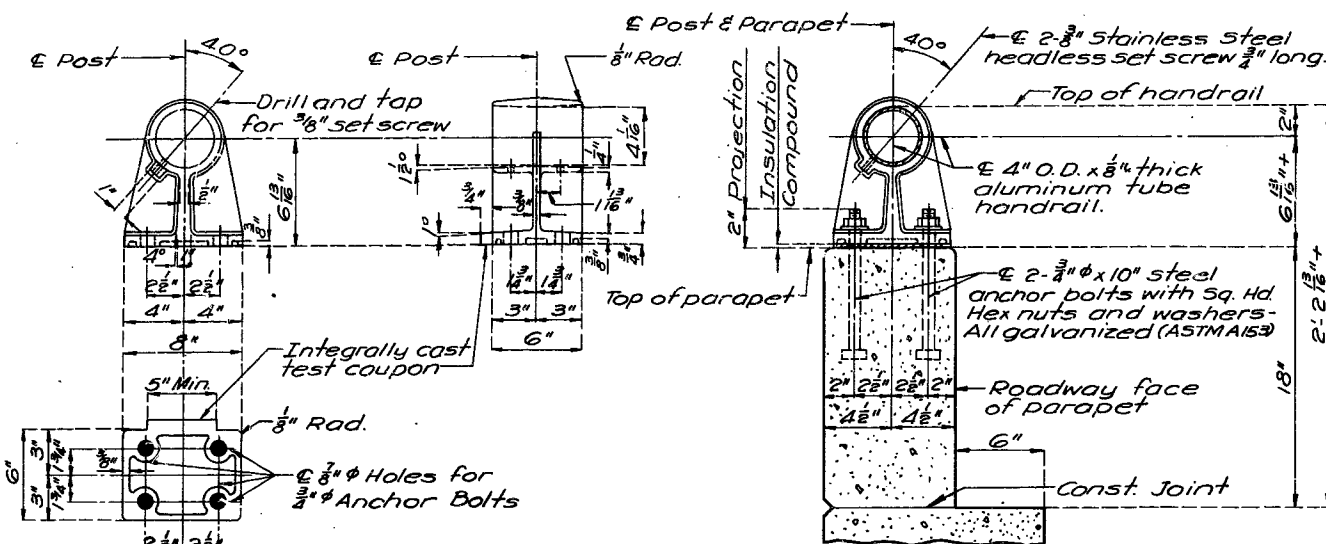
All drafts  $3^\circ$  except as noted.

Pipe rail to be fabricated in two or three panel lengths unless otherwise approved. Omit set screw on side near filled joint in parapet at all expansion posts.

Top of curbs and parapets to be built parallel to grade. Vertical faces of end post to be vertical.

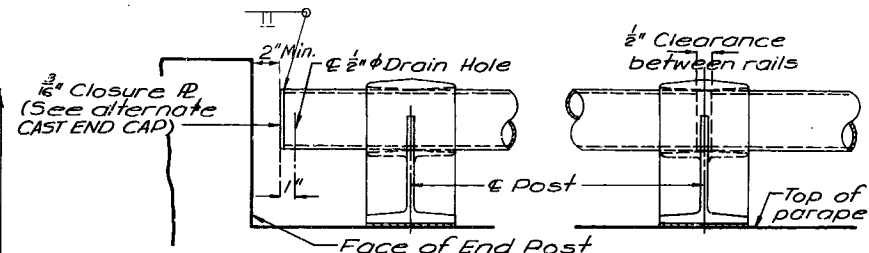
All exposed edges of end posts, parapets and curbs shall have  $\frac{1}{2}$ " radius.

If the contractor desires, he may use drive fit cast aluminum end caps in lieu of welded aluminum closure plates.

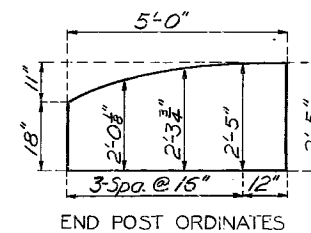


POST DETAILS

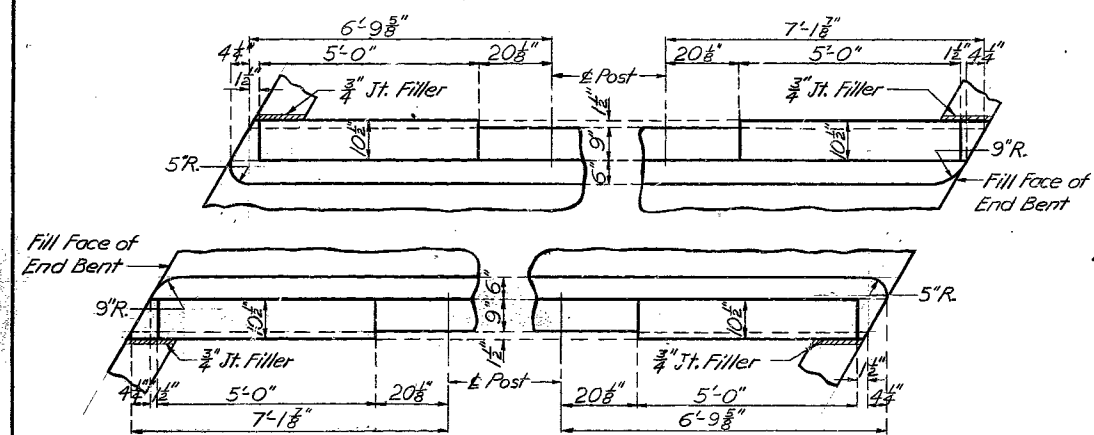
SECTION THRU HANDRAIL



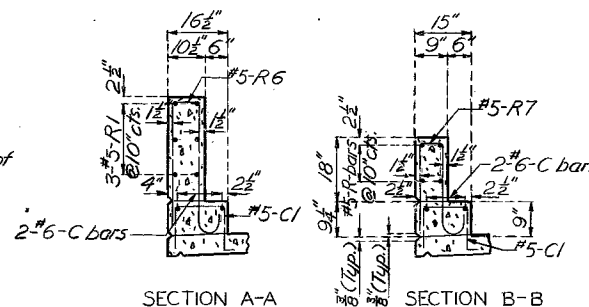
SINGLE TUBE ALUMINUM RAILING



END POST ORDINATES

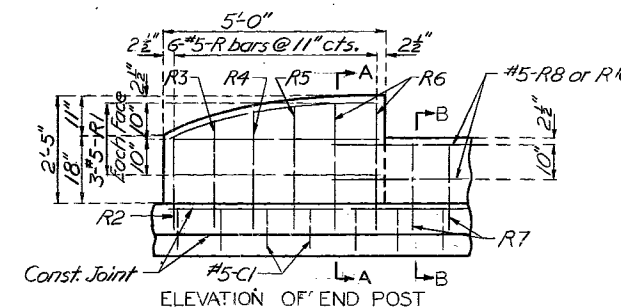


PLAN OF END POST

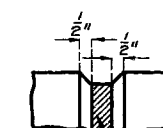


SECTION A-A

SECTION B-B

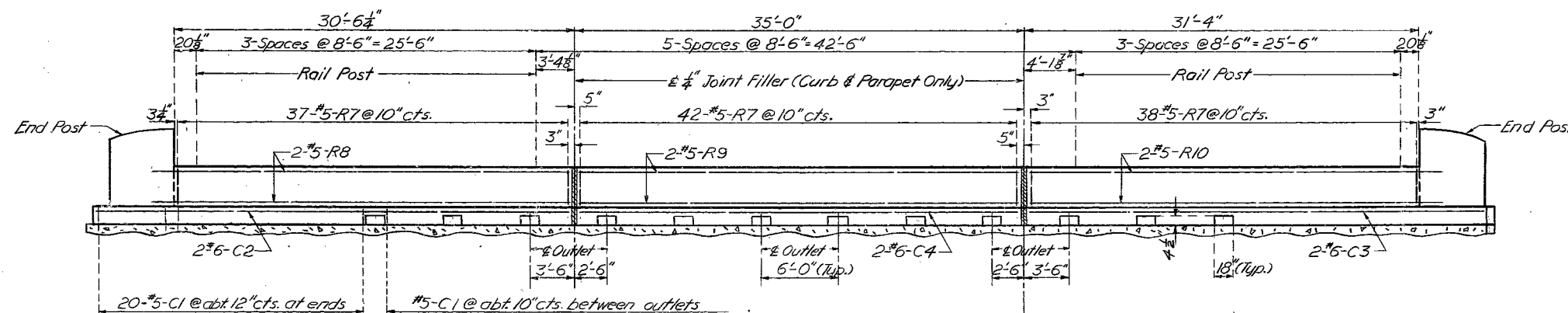


ELEVATION OF END POST



Note: Use bevel as shown for exposed faces of all filled joints.

DETAILS OF BEVEL FOR FILLED JOINTS



ELEVATION OF CURB AND PARAPET

## BRIDGE OVER UPPER PEAVINE CREEK

STATE ROAD FROM ROUTE 28 EAST TO ROUTE 5H

ABOUT 8.0 MILES S. OF BELLE

PROJECT NO. RTE. 5F-SEC. 63 (1)

STA. 62+56.0

MARIES

COUNTY

R-561

NOV. 1964 BY LESLIE  
JAN. 1965 BY LINDSEY

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

Sheet No. 5 of 5.

247

Revised  
Nov 1965  
Sept 1964



248

Gr. Elev. 929.0

Rail Exp.

Exp.

1½:1 Slope (Normal to Bent)

3'-0" Rock Blanket

Fix

Des. H.W. Elev. 924.3

Exp.

1½:1 Slope (Normal to Ben)

3'-0" Rock Blanket

Ground Line (1964)

Finished Ground Line

3'-0" Rock Blanket Elev. 925.3

Gr. Elev. 929.0

①

②

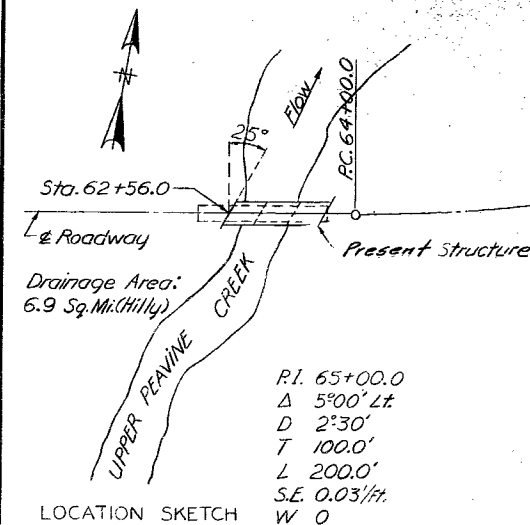
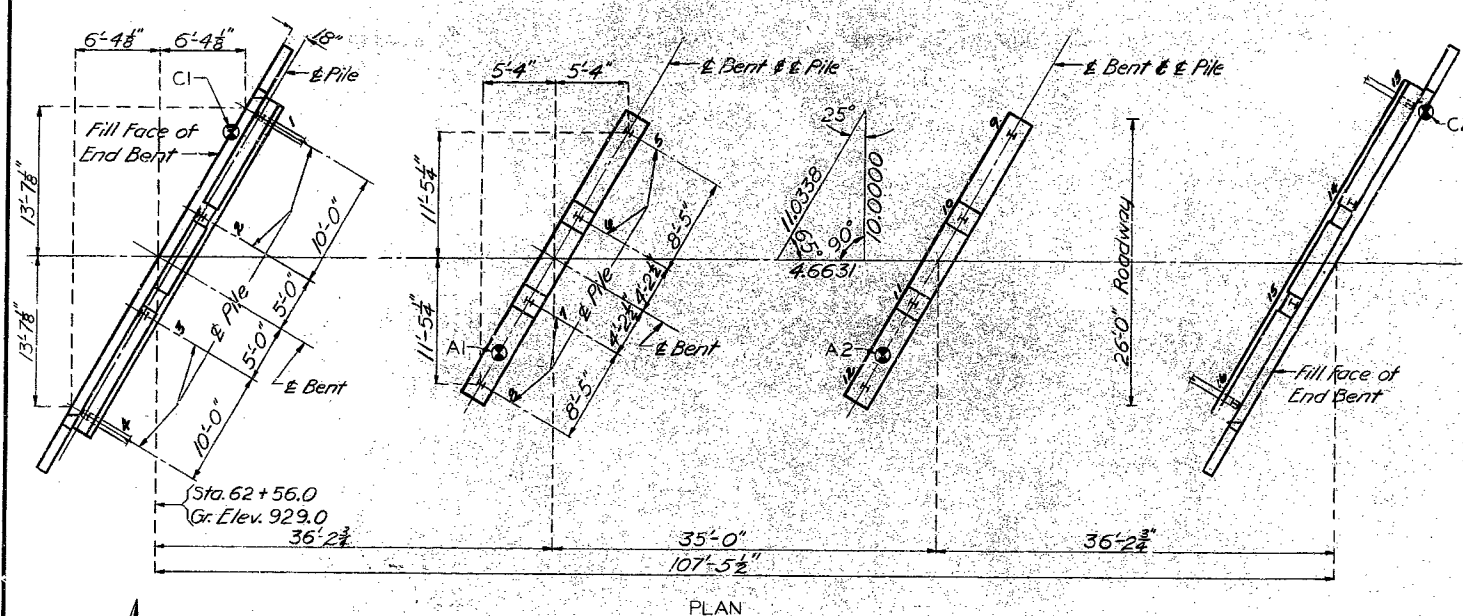
③

④

GENERAL ELEVATION

Note: 3'-0" Rock Blanket was placed on fills 2'-0" above bottom of concrete beam in front of end bents and to elevation shown on side slopes of fill. Fill under and in front of end bents were firmly tamped.

See Road Plans for Quantities.



ESTIMATED QUANTITIES				
ITEM		SUBSTR.	SUPERSTR.	TOTAL
Steel Piles in Place (10")	Lin. Ft.	735		735
Steel Pile Cut-offs (10")	Lin. Ft.	27		27
Class B Concrete	Cu. Yd.	41.8		41.8
Class BI Concrete	Cu. Yd.		77.0	77.0
Reinforcing Steel	Lb.	3790	21,760	25,550
Fabricated Structural Carbon Steel	Lb.	2350	38,020	40,370
Bridge Rail (Single tube Type)	Lin. Ft.		193	193

weight of Fabricated Structural Steel includes weight of angles required for bents No. 2 & 3.

### GENERAL NOTES

SPECIFICATIONS: *Design Specification A.A.S.H.O.-1961*

DESIGN LOADING: H15-44 (1-Lane) Earth 100% Equivalent  
Fluid Pressure 25%

DESIGN UNIT STRESSES:

Structural Steel (A.S.T.M. A36-62T) Stress 20,000 psi  
Steel Pile (A.S.T.M. A36-62T)  $f_b = 6,000$  psi  
Reinforcing Steel Stress 20,000 psi.  
Concrete, Class B Stress 1,200 psi.  
Concrete, Class B1 Stress 1,600 psi.

CONCRETE:

Superstructure concrete was Class B/  
Substructure concrete shall be Class B or  
Class B1 except payment was on the basis  
of Class B.

**SURFACE SEAL:**

Superstructure deck was surface sealed.  
(See special provisions)

FABRICATED STEEL:

Fabricated structural steel was  
A.S.T.M. A-36-62 T. Payment was  
made as Fabricated Structural Carbon Steel.  
Field connections, High Strength Bolts  $\frac{3}{4}$ ",  
holes  $\frac{13}{16}$ "

**WELDING:**

See Standard Specification 55.3.13 for qualification of welding operators.

**FILLED JOINTS:**

Where Joint filler is specified on the plans  
it did conform to Standard Specification 157.2.4.

PAINT: shop, none; Field, none by contractor except as noted in Standard Specification 55.4.10.2.

PILE DATA				
BENT NO.	1	2	3	4
Pile Type and size	10BP42	10BP42	10BP42	10BP42
Number	4	4	4	4
Approximate Length Ft.	40	35	55	70
Plan Bearing Tons.	37	37	37	37
Min. Required Brg. Tons.	22	27	27	22
Min. Penetration (Pile Tip Elev.)	—	—	—	900.0
Hammer	Power	Power	Power	Power

See Standard Specification 522.6

Piles at Bents No. 1, 2 & 3 were driven to practical refusal on or into solid rock or other point bearing material at not less than the Plan Bearing shown, unless excessive splicing is required to obtain Plan Bearing, in which case the engineer will authorize a lesser bearing, but in no case less than the Minimum Required Bearing.

Piles at Bent No. 4 were driven to the minimum penetrations noted and to not less than the Plan Bearing unless the pile lengths authorized and furnished fail to give Plan Bearing in which cases not less than the Minimum Required Bearing was obtained.

Steel Pile authorized in lengths greater than 65' was furnished in two pieces for field splicing.

COMPLETE BILL OF REINFORCING STEEL				
NO.	SIZE	LENGTH	MARK	LOCATION
<i>Superstructure</i>				
212	#5	3'-6"	C1	Curb
4	#6	35'-3"	C2	"
4	#6	36'-0"	C3	"
4	#6	34'-9"	C4	"
24	#5	4'-9"	R1	End Post
4	#5	5'-9"	R2	"
4	#5	6'-6"	R3	"
4	#5	7'-0"	R4	"
4	#5	7'-3"	R5	"
8	#5	7'-3"	R6	"
* 234	#5	5'-6"	R7	Parapet
5	#5	31'-6"	R8	"
8	#5	34'-9"	R9	"
28-	#5	28'-3"	S1	Slab
112	#4	18'-3"	S2	"
112	#5	18'-6"	S3	"
58	#4	17'-9"	S4	"
56	#5	17'-9"	S5	"
46	#5	30'-3"	S6	"
92	#5	28'-3"	S7	"
6	#4	30'-0"	S8	"
8	#5	32'-3"	R10	Parapet
<i>End Bents No. 1 &amp; 4</i>				
16	#6	35'-3"	H1	Beam
4	#6	33'-0"	H2	"
4	#6	31'-6"	H3	Backwall
12	#6	6'-0"	H4	Wing
4	#4	31'-6"	H6	Backwall
8	#6	9'-3"	T1	Wing
8	#6	8'-3"	T2	"
68	#4	11'-0"	U1	Beam
18	#4	3'-3"	U2	"
128	#4	3'-0"	V1	Backwall
8	#4	8'-0"	V2	Wing
4	#4	6'-0"	V3	"
<i>Int. Bents No. 2 &amp; 3</i>				
4	#6	28'-0"	H7	Beam
16	#6	30'-3"	H8	"
16	#4	3'-3"	U1	Beam
16	#4	9'-9"	U3	"

\* Bend R7 bars at outlets.

B.M. Chiseled "a" on Lt. ear of end Bt. #1  
Sta. 62+56.0 Elev. 929.56

BRIDGE OVER UPPER PEAVINE CREEK

STATE ROAD FROM ROUTE 28 EAST TO ROUTE 5H FINISHED

**ABOUT 8.0 MILES S. OF BELLE**

PROJECT NO. RTE. SF. SEC. 63(0) STA. 62+56.0

MARIES

COUNTY

FINISHED

SUBMITTED BY D.B. Jenkins DATE 4/6/65  
BRIDGE ENGINEER

APPROVED BY: M.A. Mide

DATE 4/6/65

Sheet No. 1A of 1

# FINAL PLANS

STD. 54.00

R-561



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

July 21, 2021  
11:12:02am

COUNTY : MARIES BRIDGE : R0561 REVIEW STATUS : APPROVED NBI STATUS : P  
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 2/8/2021 SUBMITTAL YEAR : 2020

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	CD	5B	Route Signing Prefix	MO
3	County	MARIES	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	8446	5D	Route Number	0000C
27	Year Built	1965	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	RT C 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	JEFFERSON	29	AADT	364
	Code	36872	30	AADT Year	2019
9	Location	S 21 T 40 N R 7 W	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	1.18 miles	109	AADT Truck Percent	4%
16	Latitude	38 D 11 M 54 S	114	Future AADT	509
17	Longitude	91 D 42 M 4 S	115	Future AADT Year	2039
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	PEAVINE CR	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	WATERWAY	19	By pass Detour Length	24.80 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	21 Ft. 12 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	25.00 Degrees
54B	Vert. Clearance	0 Ft. 0 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	N/A	47	Total Horiz. Clear	25 Ft. 11 In.
55B	Rt. Lat Clearance	0 Ft. 0 In.	48	Maximum Span Length	36 Ft. 1 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	106 Ft. 11 In.
38	Navigation Control	PERMIT NOT REQ	50A	Left Curb/Sidewalk Width	0 Ft. 0 In.
39	Nav Vertical Clear	0 Ft. 0 In.	50B	Right Curb/Sidewalk Width	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.	51	Curb to Curb Br. Width	25 Ft. 11 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	28 Ft. 7 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design\_No = R0561



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

July 21, 2021  
11:12:02am

COUNTY : MARIES BRIDGE : R0561 REVIEW STATUS : APPROVED NBI STATUS : P  
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 2/8/2021 SUBMITTAL YEAR : 2020

LOAD RATING AND POSTING INFORMATION				MATERIAL/CONSTRUCTION INFORMATION				
31	Design Load	H 15		43A	Main Struc. Mat type	STEEL		
41	Structure Status	P - 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	15 Tons.		44A	Appr Struc. Mat type			
65	Inventory Rating Meth	ALLOWABLE STRESS		44B	Appr Struc. Cnstr. type			
66	Inventory Rating	6 Tons.		46	# of Approach Span	0		
70	Bridge Posting Code	>39.9% BELOW		107	Deck Mat/Constr.	1 CONCRETE CIP		
PROPOSED IMPROVEMENT INFORMATION				108A	Wear Surf Mat/Constr.	1 MONO CONCRETE		
	Sufficiency Rating	29.2	Percent	108B	Membrane Mat/Constr.	0 NONE		
	Deficiency Rating	STRUCTURAL		108C	Deck Protect Mat/Constr.	7 INTERNALLY SEALED		
	Funding Eligibility	FULL		CONDITION RATING INFORMATION				
75A	Proposed Work	REPLACEMENT SUBSTND LOAD		58	Deck Cond. Rating	4		
75B	Work Done By	Contract		59	Superstructure Cond. Rating	6		
76	New Struc Length	0 Ft. 0 In.		60	Substructure Cond. Rating	5		
94	Struc Improve Cost	\$ 421,000		61	Channel /Channel Protection Cond. Rating	6		
95	Roadway Improve Cost	\$ 42,000		62	Culvert Cond. Rating	N		
96	Total Project Cost	\$ 631,000		INSPECTION INFORMATION				
97	Year of Cost Estimates	2021		90	Gen. Insp Date	8 / 20		
APPRAISAL RATING INFORMATION				91	Gen. Insp. Frequency	24	Months	
36A	Br. Rail App. Rating	DOES NOT MEET ACCEPT STND		92A	Frac. Critical Inspection	N	Months	
36B	Transition Rail App. Rating	DOES NOT MEET ACCEPT STND		93A	Frac. Critical Insp. Date			
36C	Approach Rail App. Rating	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	5		93C	Special Inspection Date			
69	Underclearance App. Rating	N		BORDER BRIDGE INFORMATION				
71	Waterway Adeq. App. Rating	6		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-7		Field Posting Category		S-7		
		Ton1	Ton2	Ton3		Ton1	Ton2	Ton3
Tonnage Values for Posting Sign		21		Tonnage Values for Posting Sign		21		
General Text for Posting Sign				General Text for Posting Sign				
TRUCKS OVER 21 TONS 15 MPH ON BRIDGE.				TRUCKS OVER 21 TONS 15 MPH ON BRIDGE.				

Design\_No = R0561





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

July 21, 2021  
11:12:02am

COUNTY : MARIES BRIDGE : R0561 REVIEW STATUS : CONVERTED NBI STATUS : T  
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 3/9/2021 SUBMITTAL YEAR : 2021

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	CD	5B	Route Signing Prefix	MO
3	County	MARIES	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	8446	5D	Route Number	0000C
27	Year Built	1965	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	RT C 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	JEFFERSON	29	AADT	364
	Code	36872	30	AADT Year	2019
9	Location	S 21 T 40 N R 7 W	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	1.19 miles	109	AADT Truck Percent	4%
16	Latitude	38 D 11 M 54 S	114	Future AADT	509
17	Longitude	91 D 42 M 4 S	115	Future AADT Year	2039
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	PEAVINE CR	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	WATERWAY	19	By pass Detour Length	25.00 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	21 Ft. 12 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	25.00 Degrees
54B	Vert. Clearance	0 Ft. 0 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	N/A	47	Total Horiz. Clear	25 Ft. 11 In.
55B	Rt. Lat Clearance	0 Ft. 0 In.	48	Maximum Span Length	36 Ft. 1 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	106 Ft. 11 In.
38	Navigation Control	PERMIT NOT REQ	50A	Left Curb/Sidewalk Width	0 Ft. 0 In.
39	Nav Vertical Clear	0 Ft. 0 In.	50B	Right Curb/Sidewalk Width	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.	51	Curb to Curb Br. Width	25 Ft. 11 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	28 Ft. 7 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design\_No = R0561



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

July 21, 2021  
11:12:02am

COUNTY : MARIES BRIDGE : R0561 REVIEW STATUS : CONVERTED NBI STATUS : T  
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 3/9/2021 SUBMITTAL YEAR : 2021

LOAD RATING AND POSTING INFORMATION				MATERIAL/CONSTRUCTION INFORMATION				
31	Design Load	H 15		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	15 Tons.		44A	Appr Struc. Mat type	000		
65	Inventory Rating Meth	ALLOWABLE STRESS		44B	Appr Struc. Cnstr. type	000		
66	Inventory Rating	6 Tons.		46	# of Approach Span	0		
70	Bridge Posting Code	>39.9% BELOW		107	Deck Mat/Constr.	1 CONCRETE CIP		
PROPOSED IMPROVEMENT INFORMATION				108A	Wear Surf Mat/Constr.	1 MONO CONCRETE		
	Sufficiency Rating	29.2	Percent	108B	Membrane Mat/Constr.	0 NONE		
	Deficiency Rating	STRUCTURAL		108C	Deck Protect Mat/Constr.	7 INTERNALLY SEALED		
	Funding Eligibility	FULL		CONDITION RATING INFORMATION				
75A	Proposed Work	REPLACEMENT SUBSTND LOAD		58	Deck Cond. Rating	4		
75B	Work Done By	Contract		59	Superstructure Cond. Rating	6		
76	New Struc Length	134 Ft. 6 In.		60	Substructure Cond. Rating	5		
94	Struc Improve Cost	\$ 421,000		61	Channel /Channel Protection Cond. Rating	6		
95	Roadway Improve Cost	\$ 42,000		62	Culvert Cond. Rating	N		
96	Total Project Cost	\$ 631,000		INSPECTION INFORMATION				
97	Year of Cost Estimates	2021		90	Gen. Insp Date	8 / 20		
APPRAISAL RATING INFORMATION				91	Gen. Insp. Frequency	24	Months	
36A	Br. Rail App. Rating	DOES NOT MEET ACCEPT STND		92A	Frac. Critical Inspection	N	Months	
36B	Transition Rail App. Rating	DOES NOT MEET ACCEPT STND		93A	Frac. Critical Insp. Date			
36C	Approach Rail App. Rating	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	5		93C	Special Inspection Date			
69	Underclearance App. Rating	N		BORDER BRIDGE INFORMATION				
71	Waterway Adeq. App. Rating	6		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-7		Field Posting Category		S-7		
		Ton1	Ton2	Ton3		Ton1	Ton2	Ton3
Tonnage Values for Posting Sign		21		Tonnage Values for Posting Sign		21		
General Text for Posting Sign				General Text for Posting Sign				
TRUCKS OVER 21 TONS 15 MPH ON BRIDGE.				TRUCKS OVER 21 TONS 15 MPH ON BRIDGE.				

Design\_No = R0561

Bridge Number:

R 0561

Route/County:

C/Maries

Asbestos-Containing Material Present?

Yes: ☒

No: ☐

If yes, see report for location(s).

Structural Steel Present?

Yes: ☒

No: ☐

If No, then skip the following.

Lead-Based Paint (LBP) Present?

Yes: ☒

No: ☐

Trusses LBP?

Yes: ☐ No: ☐

Girder LBP?

Yes: ☒ No: ☐

Railing LBP?

Yes: ☐ No: ☐

Pile LBP?

Yes: ☒ No: ☐



## MEMORANDUM

### Missouri Department of Transportation Construction and Materials Central Laboratory

**TO:** TMS

**FROM:** Diane Roegge *Diane Roegge*  
Environmental Chemist

**DATE:** June 22, 2016

**SUBJECT:** Materials  
Asbestos Inspection & Heavy Metal Paint Survey  
Route C  
Bridge R-0561  
Maries County

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

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

N-ACM – No asbestos detected.

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

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

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

Although our survey included observing and sampling all accessible areas, it is possible that potentially hidden asbestos-containing materials may exist within the structure. Should you have any questions regarding these reports, please contact me at (573) 526-4359.

db/fr/dr

[http://sp/sites/cm/chemicallab/environmental/shared documents/asbestos/districts/central \(cd\)/mt/r0561/dr1606222.docx](http://sp/sites/cm/chemicallab/environmental/shared%20documents/asbestos/districts/central%20(cd)/mt/r0561/dr1606222.docx)  
Attachments

Mr. and Diane Roeger

**SURVEYED BY:** Frank Reichart and Diane Roegge  
**CERTIFICATION #:** 7118110315MOIR11239, F.R.  
**CERTIFICATION #:** 7118110315MOIR7165, D.R.  
**SITE ADDRESS:** Over Upper Peavine Creek  
**TYPE(S) OF STRUCTURE(S):** Bridge

[illegible]



MISSOURI DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION AND MATERIALS

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

ROUTE:  
MODOT JOB NO.:  
DISTRICT:  
COUNTY:  
DATE OF TESTS:  
PARCEL NO.:

TESTED BY:  
CERTIFICATION #:  
CERTIFICATION #:  
SITE ADDRESS:  
TYPE(S) OF STRUCTURE(S):

[illegible]







Expiration Date 12/2/2016  
Training Date: 11/3/2015

Certificate Number: 7118110315MOIR11239

**Missouri State Certificate for Asbestos Related Occupations**

issued by Department of Natural Resources  
P.O. Box 176  
Jefferson City, MO 65102  
Phone (573) 751-4817

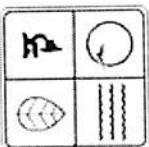
**Francis J. Reichart**

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

12/3/2015

Date

*Lyra L Moore*  
Director of Air Pollution Control Program





Expiration Date

12/2/2016

Certificate Number: 7118110315MOIR7165

Training Date:

11/3/2015

**Missouri State Certificate for Asbestos Related Occupations**

issued by Department of Natural Resources

P.O. Box 176

Jefferson City, MO 65102

Phone (573) 751-4817

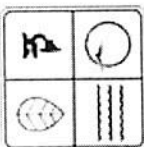
**Diane R. Roegge**

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

12/3/2015

Date

*Kyra L Moore*  
Director of Air Pollution Control Program






## MEMORANDUM

### Missouri Department of Transportation Construction and Materials Central Laboratory

**TO:** TMS

**CC:**

**FROM:** Frank Reichart   
Environmental Chemist, Lead License #110506-300003364

**DATE:** June 22, 2016

**SUBJECT:** Materials  
Job No. N/A  
C/Maries County  
Bridge R-0561

On June 22, 2016, a paint screening for regulated heavy metals was performed on the subject bridge. The following results were obtained:

	<b>16MD1R447</b>
Arsenic (As)	9,744 ppm** (1.0%)
Chromium (Cr)	281 ppm
Lead (Pb)	226,202 ppm (22.6%)
Cadmium (Cd)	187 ppm
Selenium (Se)	LOD*
Barium (Ba)	772 ppm
Mercury (Hg)	LOD
Silver (Ag)	LOD

\*LOD = below the detection limit of the instrument

\*\*ppm = parts per million

TMS paint data indicated a System A paint from 1967 was under the System S paint, applied in 2007. The results verify the information found in TMS.

The existing paint system is lead-based paint (LBP). Therefore any painting project will be subject to DHSS notification and regulation.

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

fr/dr

[http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared  
documents/asbestos/districts/central \(cd\)/mt/r0561/lbp\\_r0561.docx](http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared/documents/asbestos/districts/central(cd)/mt/r0561/lbp_r0561.docx)

