

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	6	

31'-39'(Comp.)-31' Simple I-Beam Spans

GENERAL NOTES:

Design Specifications: A.A.S.H.O. - 1961

Design Loading:

H15-44, 15 #/sq. ft. Future Wearing Surface
Earth 120# Equivalent Fluid Pressure 30#

Design Unit Stresses:

Class B Concrete (substructure) $f_c = 1,200$ psi
Class B1 Concrete (superstructure) $f_c = 1,600$ psi
Reinforcing Steel $f_s = 20,000$ psi
Structural Steel (A.S.T.M A36-63T) $f_s = 20,000$ psi

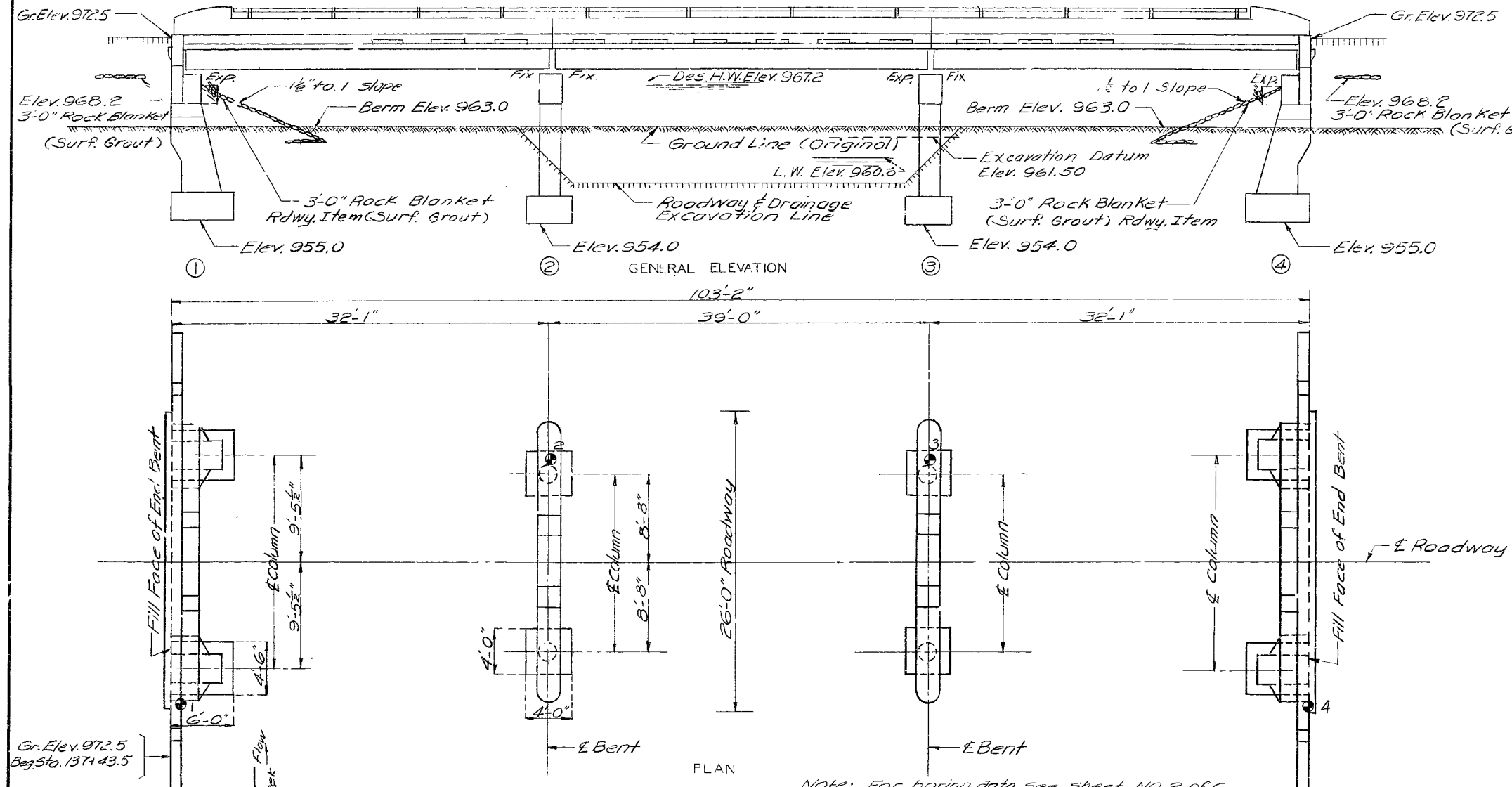
Surface Seal:

Superstructure deck to be surface sealed.

Fabricated Steel:

Field connections, High Strength Bolts $\frac{3}{4}" \phi$,
holes $\frac{13}{16}" \phi$ except as noted.

Note: In no case shall footings of Bents
No. 2 and 3 be placed higher than
elevations shown.



FOOTING DATA				
BENT NO.	1	2	3	4
Foundation Material	Rock	Rock	Rock	Rock
Des. Brg. Tons/Sq. Ft.	4.5	4.0	4.0	4.5

Note: For boring data see sheet NO. 2 of C.
⊙ Indicates location of boring.

ESTIMATED QUANTITIES			
ITEM	SUBSTR.	SUPERSTR.	TOTAL
Class 1 Excavation for Structure CU.Yds.	20		20
Class 2 Excavation for Structure CU.Yds.	60		60
Class B Concrete CU.Yds.	63.4		63.4
Class B1 Concrete CU.Yds.		82.5	82.5
Reinforcing Steel Lbs.	1320	21100	22420
Fabricated structural Carbon Steel Lbs.		37190	37190
Bridge Rail (single tube type) Lin. Ft.		185	185

B.M. Elev. 963.43 - B.S. in 10" Ash. Stump TO Rt. Sta. 138+20

BRIDGE OVER LANES FORK CREEK

STATE ROAD FROM ROUTE 63 EAST TO ROUTE 68

ABOUT 12.0 MILES N.E. OF ROLLA

PROJECT NO. RTE. SP. SEC. 63 (1) STA. 137 + 43.5

MARIES

COUNTY

SUBMITTED BY *D.B. Jenkins* DATE 12/20/66

APPROVED BY *M.J. Miller* DATE 12/20/66

STD. 54.00

A-1882

DESIGNED July 1966 BY Tafreshi
DETAILED/AUG. 1966 BY Tafreshi & Terrill
CHECKED Oct. 1966 BY Mizani

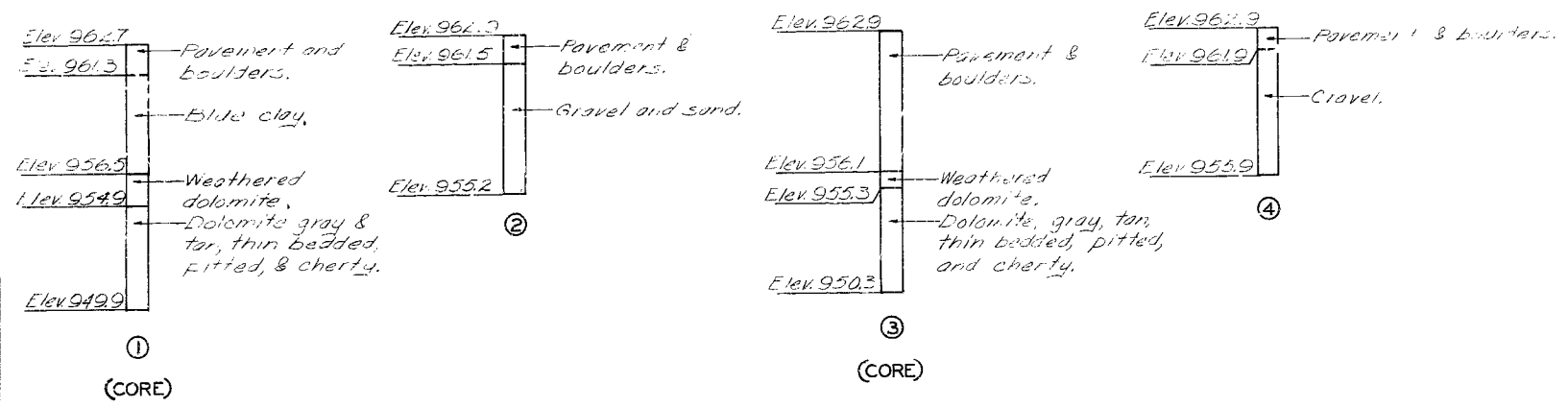
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 6.

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MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	7	



BORING DATA
Note: For location of borings see Sheet No. 1 of 6

COMPLETE BILL OF REINFORCING STEEL

NO.	SIZE	LENGTH	MARK	LOCATION	BENDING SKETCHES & CUTTING DIAGRAMS	NO.	SIZE	LENGTH	MARK	LOCATION
End Bents NO. 1 & 4						Superstructure				
40	#6	3'-0"	D1	Col.		41	#5	28'-0"	S1	Sh.L
16	#6	7'-9"	F1	Col. Hch.		60	#5	21'-0"	S2	"
16	#6	7'-6"	F2	"		60	#5	20'-0"	S3	"
16	#6	3'-3"	F3	"		58	#4	31'-9"	S4	"
12	#6	20'-3"	H1	Beam		58	#4	20'-0"	S5	"
4	#6	24'-0"	H2	"						
4	#6	23'-9"	H3	Backwall						
24	#6	9'-0"	H4	Wing						
12	#8	24'-0"	H5	Beam						
8	#6	10'-0"	T1	Wing						
50	#4	3'-3"	U1	Beam						
16	#4	3'-3"	U2	"						
112	#5	3'-0"	V1	Backwall						
8	#4	9'-3"	V2	Wing						
4	#4	5'-9"	V3	Wing						
16	#6	11'-9"	V4	Col.						
24	#6	11'-6"	V5	"						
20	#3	12'-0"	V6	"						
12	#3	11'-9"	V7	"						
8	#4	9'-0"	V8	"						
Int. Bents NO. 2 & 3						Spot Weld #2 bars				
32	#7	3'-6"	D2	Col.		41	#5	28'-0"	S1	Sh.L
10	#6	23'-9"	H7	Beam		60	#5	21'-0"	S2	"
4	#6	23'-9"	H8	"		60	#5	20'-0"	S3	"
6	#7	23'-9"	H9	"		58	#4	31'-9"	S4	"
8	#7	10'-0"	H10	"						
16	#7	5'-3"	H11	"						
44	#3	6'-3"	P1	Col.						
48	#4	9'-3"	U3	Beam						
12	#4	3'-0"	U4	"						
32	#7	12'-3"	V8	Col.						
Superstructure						Spot Weld #2 bars				
212	#5	3'-6"	C1	Curb		41	#5	28'-0"	S1	Sh.L
8	#6	31'-9"	C2	"		60	#5	21'-0"	S2	"
8	#6	20'-3"	C3	"		60	#5	20'-0"	S3	"
8	#5	4'-9"	R1	End Post		58	#4	31'-9"	S4	"
4	#5	5'-6"	R2	"						
4	#5	6'-3"	R3	"						
4	#5	6'-9"	R4	"						
4	#5	7'-0"	R5	"						
8	#5	7'-3"	R6	"						
188	#5	5'-3"	R7	Parapet						
24	#5	4'-3"	R8	"						
16	#5	20'-0"	R9	"						
16	#5	31'-9"	R10	"						

BRIDGE OVER LANES FORK CREEK
STATE ROAD FROM ROUTE 63 EAST TO ROUTE 68
ABOUT 12.0 MILES N.E. OF ROLLA
PROJECT NO. RTE. SP. SEC. 63(1) STA. 137 + 43.5
MARIES COUNTY

453

No. 90.2
June 1961
Revised
Dec. 1964

DETAILED Aug. 1965 BY Terrill & Tafreshi
CHECKED Oct. 1966 BY Mizani

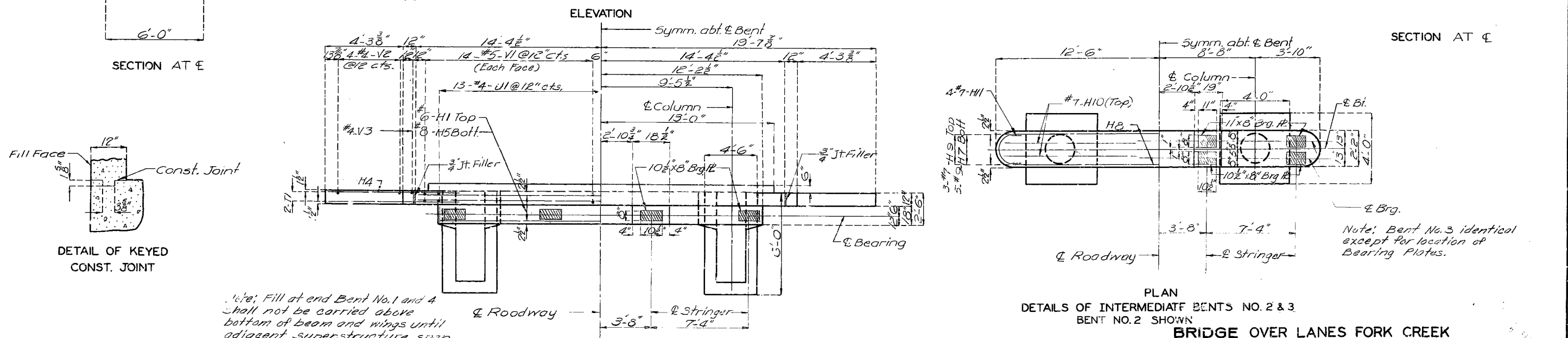
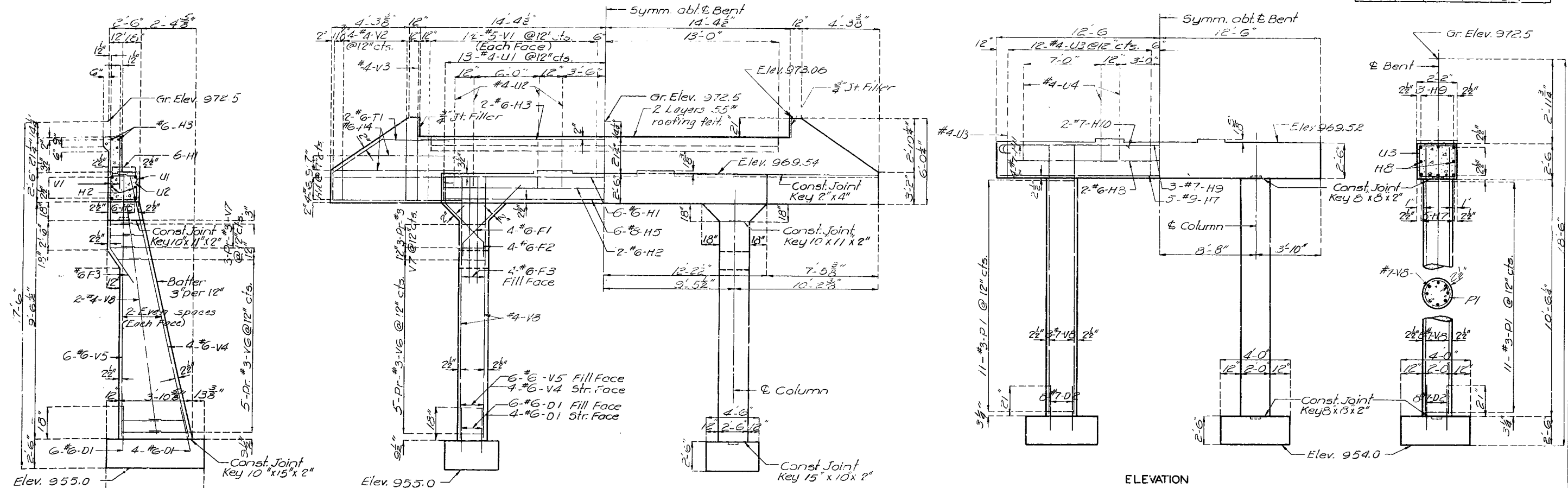
Note: This drawing is not to scale. Follow dimensions.

Sheet No. E of G

A-1882

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO		19	2	



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STD. 15.1
MAR. 1964
REVISED
MAY 1966

DETAILED AUG 1966 BY Tafreshi
CHECKED OCT. 1966 BY Mizoni

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

Note: Bent No. 3 identical except for location of Bearing Plates.

Sheet No. 3 of 6.

BRIDGE OVER LANES FORK CREEK

STATE ROAD FROM ROUTE 63 EAST TO ROUTE 68
ABOUT 12.0 MILES N.E. OF ROLLA
PROJECT NO. RTE. SP. 63(1) STA. 137 + 43.5
MARIES COUNTY

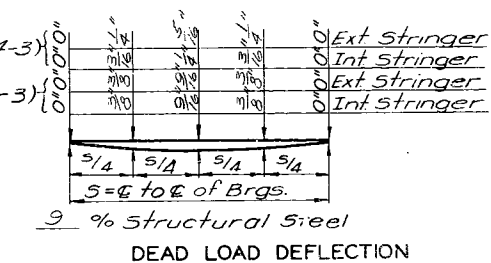
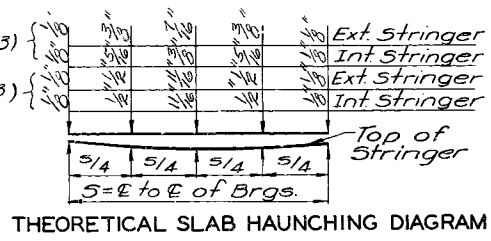
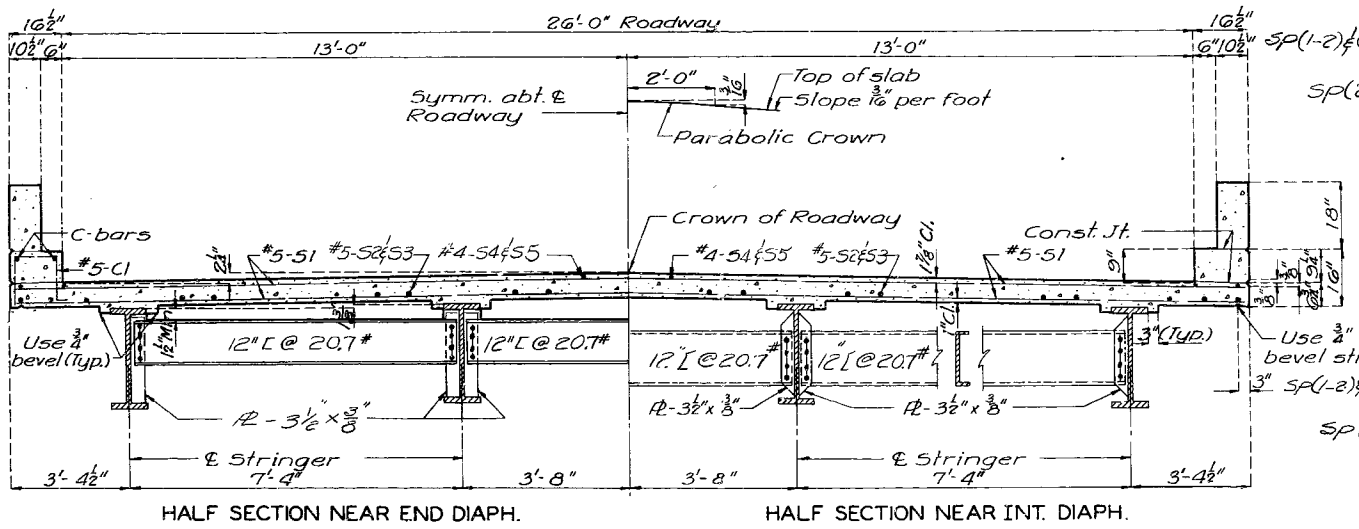
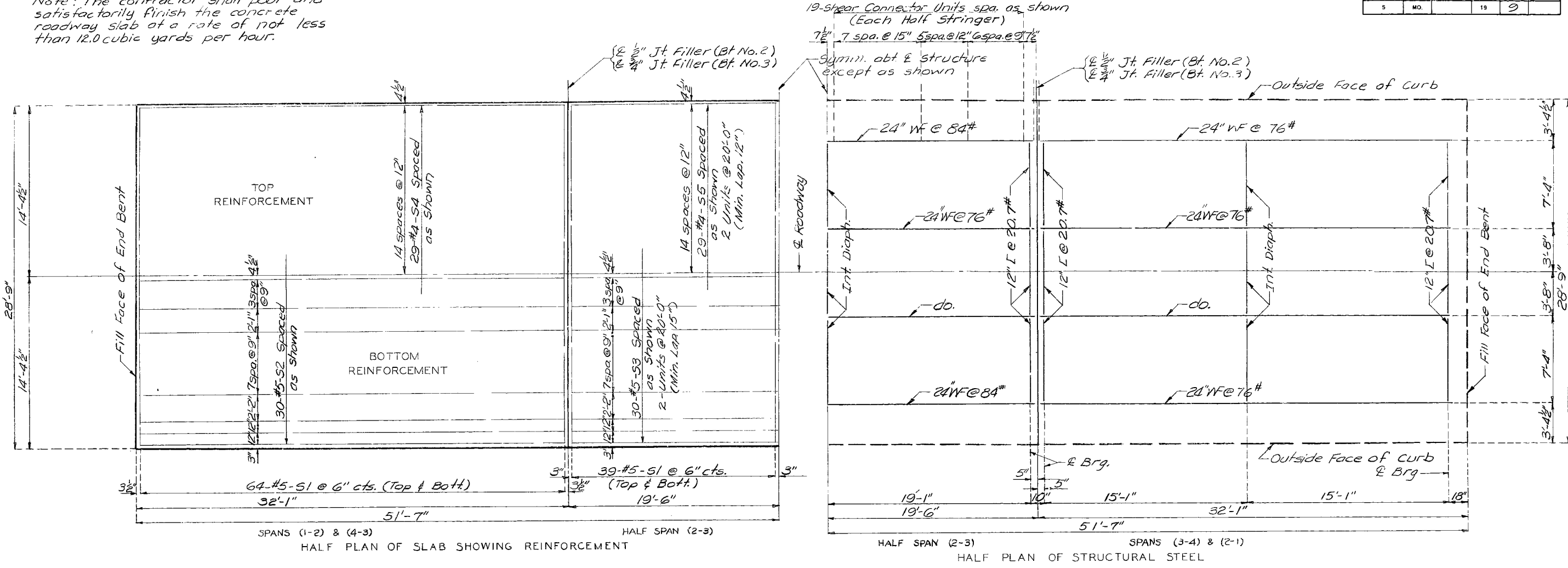
A-1882

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MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	9	

Note: The contractor shall pour and satisfactorily finish the concrete roadway slab at a rate of not less than 12.0 cubic yards per hour.



BRIDGE OVER LANE FORK CREEK
STATE ROAD FROM ROUTE 63 EAST TO ROUTE 68
ABOUT 12.0 MILES N.E. OF ROLLA
PROJECT NO. RTE. SP. SEC. 63 (1) STA. 137 + 43.5
MARIES COUNTY

DETAILED July 1966 BY Tafreshi
CHECKED Oct. 1966 BY Mizani

Note: For details and reinforcement of curb and parapet not shown see sheet No. 6066.

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

Sheet No. 4 of 6.

A-1882

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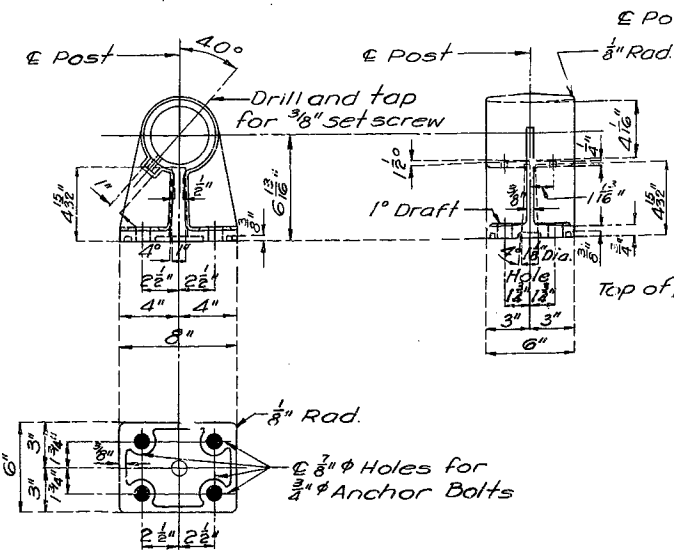
MISSOURI STATE HIGHWAY DEPARTMENT

2" Min. except for Exp Gap.
in parapet use 3" @ 60° F

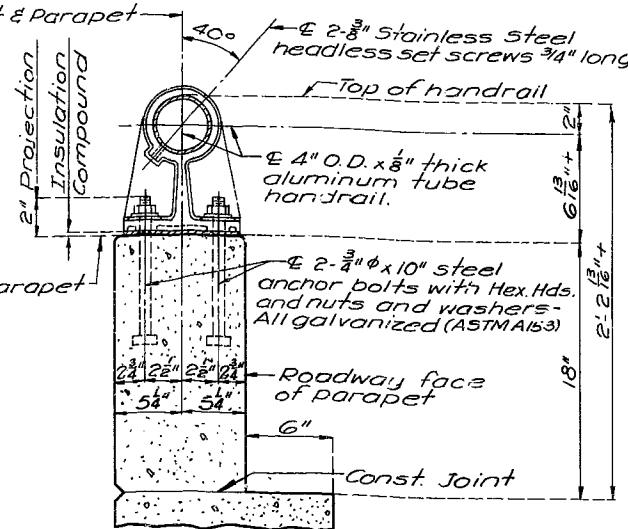
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	11	

GENERAL HANDRAIL NOTES:

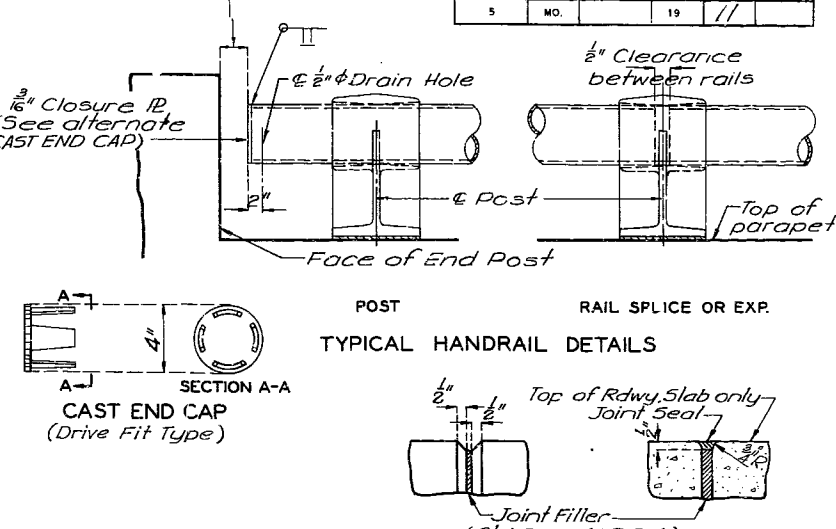
All handrail posts shall be set normal to grade.
Aluminum tube handrail shall be bent to conform to vertical and horizontal alignment of parapet.
Aluminum washer shims between top of parapet and post base may be used for adjusting handrail alignment. Maximum thickness of shims to be 1/8". Where more 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 1/4" except as noted.
All drafts 3° except as noted.
Pipe rail to be fabricated in two or three panel lengths unless otherwise approved.
Omit set screw on side adjacent to filled joint in parapet and curb at all expansion posts.
Top of curbs and parapets to be built parallel to grade with curb and parapet joints (except at end posts) normal to grade.
Concrete end posts to be vertical.
All exposed edges of end posts shall have 1/2" bevel.
All exposed edges of curbs and parapets shall have 1/2" radius or 3/8" bevel unless otherwise noted.
If the contractor desires, he may use drive fit cast aluminum end caps in lieu of welded aluminum closure plates.
Integrally cast test coupons and a coat of clear lacquer specified in Std Spec 56.2.4 and 56.3.5 respectively will not be required for these rail posts.



POST DETAILS

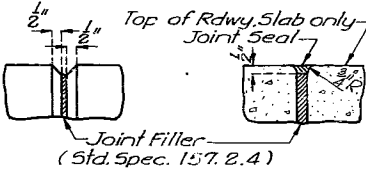


SECTION THRU HANDRAIL

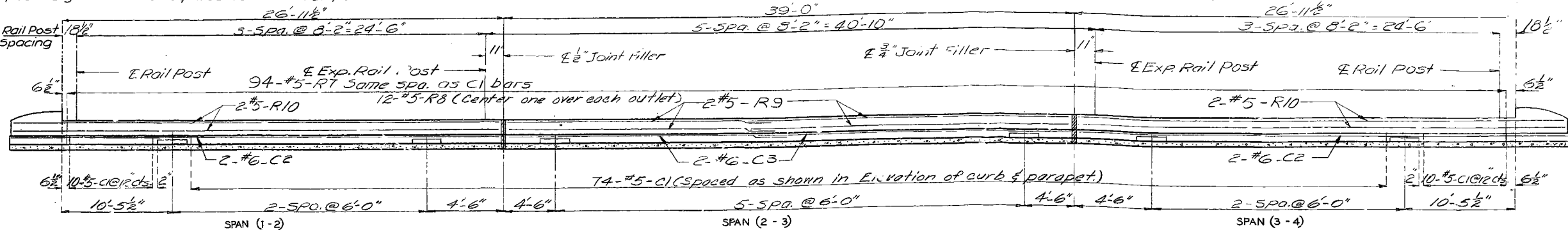


SINGLE TUBE ALUMINUM RAILING

TYPICAL HANDRAIL DETAILS

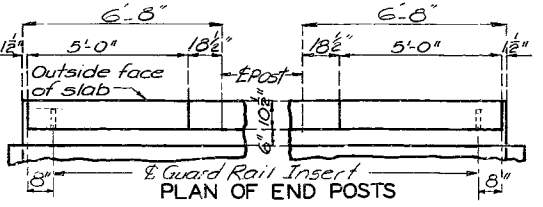


FILLED JOINT DETAILS

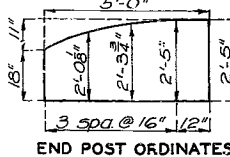


SECTION NEAR LEFT CURB AND PARAPET

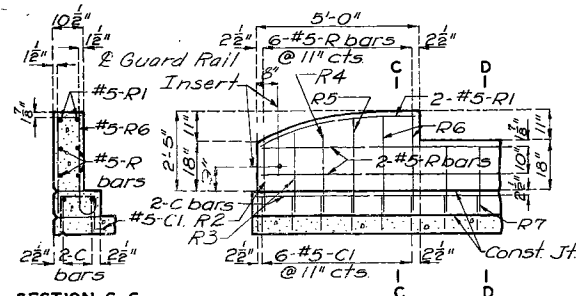
Note: Anchors for attaching guard rail shall be 1/2" threaded (Galv.) inserts having a Min. depth of 4" and filled with a plastic closing plug. Cost for furnishing & installing the insert & plug will be included in price bid for other items.



PLAN OF END POSTS

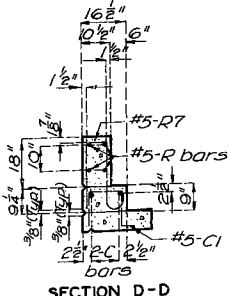


END POST ORDINATES



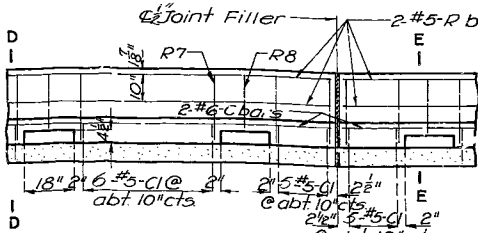
SECTION C-C

ELEVATION OF END POST



SECTION D-D

Note: When curb outlets are omitted space #5-CI bars at abt. 12" cts.



ELEVATION OF CURB & PARAPET

Sheet No. 6 of 6

Note: For horizontal curb and parapet bars use a minimum lap of 15" for #5 and 18" for #6

SECTION E-E

BRIDGE OVER LANES FORK CREEK

STATE ROAD FROM ROUTE 63 EAST TO ROUTE 68
ABOUT 12.0 MILES N.E. OF ROLLA
PROJECT NO. RTE. SP. SEC. 63 (I) STA. 137 + 43.5

COUNTY

A-1882

REVISED JULY 1966
MAR 1964
STD. 15.2

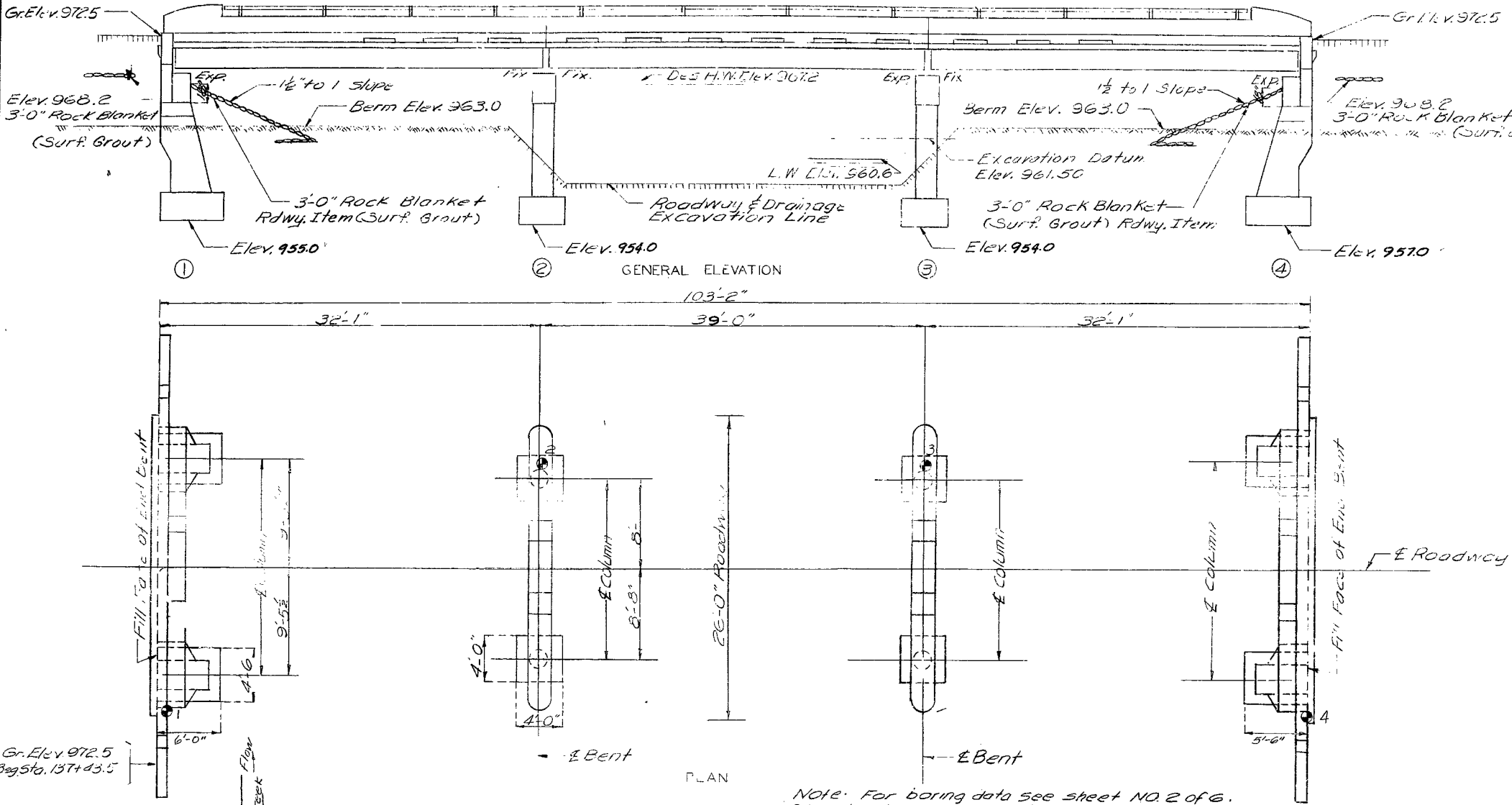
DETAILED July 1966 BY T. H. T. shi
CHECKED Oct. 1966 BY Mizani

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	6	

31'-39"(Comp.)-31' Simple I-Beam Spans

GENERAL NOTES:
Design Specifications: A.A.S.H.O.-1961
Design Loading:
H15-24, 15#/sq ft Future Wearing Surface
Earth 120# Equivalent Fluid Pressure 30#
Design Unit Stresses:
Class B Concrete (substructure) $f_c = 1,200$ psi
Class B1 Concrete (superstructure) $f_c = 1,600$ psi
Reinforcing Steel $f_s = 20,000$ psi
Structural Steel (A.S.T.M. A36-63T) $f_s = 20,000$ psi
Surface Seal:
Superstructure deck was surface sealed.
Fabricated Steel:
Field connections, High Strength Bolts $\frac{3}{4}" \phi$,
holes $\frac{13}{16}" \phi$ except as noted.
Note: In no case were footings of Bents
No. 2 and 3 placed higher than
elevations shown.



FOOTING DATA				
BENT NO.	1	2	3	4
Foundation Material	Rock	Rock	Rock	Rock
Des. Brg. Tons/Sq. Ft.	4.5	4.0	4.0	4.5

QUANTITIES			
ITEM	SUBSTR.	SUPERSTR.	TOTAL
Class 1 Excavation for Structure CU.Yds.	2.6		2.6
Class 2 Excavation for Structure CU.Yds.	8.6		8.6
Class B Concrete CU.Yds.	61.6		61.6
Class B1 Concrete CU.Yds.		82.5	82.5
Reinforcing Steel Lbs.	7520	21100	28620
Fabricated Structural Carbon Steel Lbs.		37240	37240
Bridge Rail (single tube type) Lin. Ft.		185	185
Test Holes	32		32

BM on S.E. Cor. S.E. Wing Wall Bridge Rt. Sta. 138+46.7
Elev. 973.27
BRIDGE OVER LANES FORK CREEK
STATE ROAD FROM ROUTE 63 EAST TO ROUTE 68
ABOUT 12.0 MILES N.E. OF ROLLA
PROJECT NO. RTE. SP. SEC. 63 (I) STA. 137 + 43.5
MARIES COUNTY

DESIGNED July 1966 BY Tofreshi
DETAILED/AUG. 1966 BY Tofreshi & Tofreshi
CHECKED Oct. 1966 BY Mizani

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

Sheet No. 1 of 2

FINAL PLANS

SUBMITTED BY *D.B. Jensen* DATE 12/20/66
APPROVED BY *M.G. Miller* DATE 12/20/66

STD. 54.00
A-1882

154

STD. 15.1	REVISED
MAR. 1964	MAY 1966

Note: This drawing is not to scale. Follow dimensions

Sheet No. 3 of 2

A-1882



STATE ROAD FROM ROUTE 63 EAST TO ROUTE 68
ABOUT 12.0 MILES N.E. OF ROLLA

PROJECT NO. RTE. SR. SEC. 63 (1) STA. 137 + 43.5

MARIES COUNTY



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

July 21, 2021
11:11:15am

COUNTY : MARIES BRIDGE : A1882 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.	1573	5D	Route Number	0000P
27	Year Built	1967	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	RT P 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	JOHNSON	29	AADT	242
	Code	37394	30	AADT Year	2019
9	Location	S 29 T 39 N R 7 W	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	2.59 miles	109	AADT Truck Percent	11%
16	Latitude	38 D 4 M 16 S	114	Future AADT	338
17	Longitude	91 D 43 M 21 S	115	Future AADT Year	2039
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	LANES FK CR	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	WATERWAY	19	By pass Detour Length	16.12 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	20 Ft. 0 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	0.00 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	39 Ft. 1 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	103 Ft. 0 In.
38	Navigation Control	PERMIT NOT REQ	50A	Left Curb/Sidewalk Width	0 Ft. 0 In.
39	Nav Vertical Clear	0 Ft. 0 In.	50B	Right Curb/Sidewalk Width	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.	51	Curb to Curb Br. Width	25 Ft. 11 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	28 Ft. 10 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design_No = A1882



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

July 21, 2021
11:11:15am

COUNTY : MARIES BRIDGE : A1882 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	A - OPEN NO RESTRICTIONS	43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
63	Oper. Rating Meth.	ALLOWABLE STRESS	45	# of Main Spans	3
64	Operating Rating	36 Tons.	44A	Appr Struc. Mat type	
65	Inventory Rating Meth	ALLOWABLE STRESS	44B	Appr Struc. Cnstr. type	
66	Inventory Rating	19 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	72.1 Percent	108B	Membrane Mat/Constr.	0 NONE
	Deficiency Rating	STRUCTURAL	108C	Deck Protect Mat/Constr.	7 INTERNALLY SEALED
	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	6
76	New Struc Length	0 Ft. 0 In.	60	Substructure Cond. Rating	6
94	Struc Improve Cost	\$ 277,000	61	Channel /Channel Protection Cond. Rating	6
95	Roadway Improve Cost	\$ 27,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 416,000	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	5	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	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 = A1882



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

July 21, 2021
11:11:15am

COUNTY : MARIES BRIDGE : A1882 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.	1573	5D	Route Number	0000P
27	Year Built	1967	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	RT P 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	JOHNSON	29	AADT	242
	Code	37394	30	AADT Year	2019
9	Location	S 29 T 39 N R 7 W	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	2.61 miles	109	AADT Truck Percent	11%
16	Latitude	38 D 4 M 16 S	114	Future AADT	338
17	Longitude	91 D 43 M 21 S	115	Future AADT Year	2039
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	LANES FK CR	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	WATERWAY	19	By pass Detour Length	16.25 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	20 Ft. 0 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	0.00 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	39 Ft. 1 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	103 Ft. 0 In.
38	Navigation Control	PERMIT NOT REQ	50A	Left Curb/Sidewalk Width	0 Ft. 0 In.
39	Nav Vertical Clear	0 Ft. 0 In.	50B	Right Curb/Sidewalk Width	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.	51	Curb to Curb Br. Width	25 Ft. 11 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	28 Ft. 10 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design_No = A1882



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

July 21, 2021
11:11:15am

COUNTY : MARIES BRIDGE : A1882 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	OPEN NO RESTRICTIONS	43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
63	Oper. Rating Meth.	ALLOWABLE STRESS	45	# of Main Spans	3
64	Operating Rating	36 Tons.	44A	Appr Struc. Mat type	000
65	Inventory Rating Meth	ALLOWABLE STRESS	44B	Appr Struc. Cnstr. type	000
66	Inventory Rating	19 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 72.1 Percent			108B	Membrane Mat/Constr.	0 NONE
Deficiency Rating STRUCTURAL			108C	Deck Protect Mat/Constr.	7 INTERNALLY SEALED
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	6
76	New Struc Length	131 Ft. 3 In.	60	Substructure Cond. Rating	6
94	Struc Improve Cost	\$ 277,000	61	Channel /Channel Protection Cond. Rating	6
95	Roadway Improve Cost	\$ 27,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 416,000	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	5	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	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 = A1882

Bridge Number:

A-1882

p/maries

ACM Present?

Yes: ☒

No: ☐

If yes, see report for location(s).

Structural Steel Present?

Yes: ☒

No: ☐

If No, then skip the following.

LBP Present?

Yes: ☒

No: ☐

Trusses LBP?

Yes: ☐ No: ☐

Railing LBP?

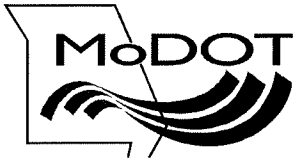
Yes: ☐ No: ☐

Girder LBP?

Yes: ☒ No: ☐


Pile LBP?

Yes: ☐ No: ☐



MEMORANDUM

Missouri Department of Transportation
Construction and Materials
Central Laboratory

TO: TMS
FROM: Diane Roegge 
Environmental Chemist
DATE: August 11, 2015
SUBJECT: Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route P
Bridge A-1882
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/a1882/dr1508113.docx](http://sp/sites/cm/chemicallab/environmental/shared%20documents/asbestos/districts/central%20(cd)/mt/a1882/dr1508113.docx)

Attachments

Asbestos Survey Report All Suspect ACM

SURVEYED BY:	Frank Reichardt and Diane Roegge
CERTIFICATION #:	7118110514MOIR11239, F.R.
CERTIFICATION #:	7118110514MOIR7165, D.R.
SITE ADDRESS:	Over Lanes Fork Creek
TYPE(S) OF STRUCTURE(S):	Bridge

[illegible]

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS

Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes

ROUTE:	P
MODOT JOB NO.:	N/A
DISTRICT:	CD
COUNTY:	Maries
SURVEYED BY:	Frank Reichart
DATE OF SURVEY:	August 10, 2015

TESTED BY:	N/A
DATE OF TESTS:	N/A
PARCEL NO.:	Bridge A-1882
SITE ADDRESS:	Over Lanes Fork Creek
TYPE(S) OF STRUCTURE(S):	Bridge

[illegible]

All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050
b = USEPA SW-846 Method 7471

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

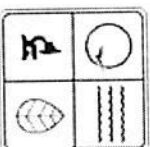
Francis J. Reichart

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

Kyra 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

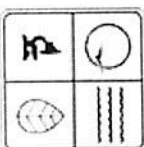
Diane R. Roegge

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: August 11, 2015

SUBJECT: Materials
Job No. N/A
P/Maries County
Bridge A-1882

On August 10, 2015, a paint screening for regulated heavy metals was performed on the subject bridge. The following results were obtained:

	15MFJR168
Arsenic (As)	LOD*
Chromium (Cr)	3,109 ppm** (0.3%)
Lead (Pb)	260,978 ppm (26.1%)
Cadmium (Cd)	310 ppm
Selenium (Se)	LOD
Barium (Ba)	LOD
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 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 the redecking project as well as 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/shareddocuments/asbestos/districts/central\(cd\)/mt/bridge-a-1882/lbp-bridge-a-1882.docx](http://sharepoint/systemdelivery/cm/chemicallab/environmental/shareddocuments/asbestos/districts/central(cd)/mt/bridge-a-1882/lbp-bridge-a-1882.docx)

