

RECEIVED**BRIDGE REPORT**

ON STRUCTURES USED IN PLACE

APR - 1 1954

THIS REPORT TO BE FILLED IN WITH INK OR TYPEWRITER

Bureau of Bridges

Tr 30

Route "V"

COUNTY St. Francois PROJ. NO. S-1291(2) STA. NO. 57+93.65 BRIDGE NO. _____ DESIGN NO. Y-935*ON ROAD FROM Pilot Knob TO Mineral City : 4.3 MILES N. E. OF Pilot KnobBRIDGE OVER Brewers Creek SEC. 15 TWP. 34 N. RG. 4 E.REPORTED BY O. A. Wetzel DATE 4-2-52

*GIVE ADJACENT TOWNS, EACH WAY, NOT TERMINAL POINTS OF ROUTE.

SUPERSTRUCTURETYPE OF STRUCTURE Concrete Slab Bridge 10' 3" x 10' spans on concrete bents

LENGTH OUT TO OUT OF FLOOR	WIDTH BETWEEN CURBS	WIDTH OF SIDEWALKS	DISTANCE GRADE TO LOW CONST.	DISTANCE GRADE TO HIGH WATER	DISTANCE GRADE TO STREAM BED	EXPANSION PROVISIONS
<u>43.4'</u>	<u>20.15'</u>	<u>-</u>	<u>1.0'</u>	<u>1.4"</u>	<u>6'±</u>	
CLEARANCE DIMENSIONS HEIGHT WIDTH MIN. MAX. MIN. MAX.		TYPE AND SIZE OF RAIL CURB				DESCRIPTION OF FLOOR DRAINAGE

GENERAL CONDITION _____

SUBSTRUCTURE

ABUTMENTS AND PIERS	MATERIAL	TYPE	TOP OF FOOTING TO BRIDGE SEAT	WIDTH OF BRIDGE SEAT	LENGTH OF BRIDGE SEAT	FOUNDATIONS (PILING)	WINGS (LENGTHS, ANGLES, ETC.)
WEST OR NORTH							
EAST OR SOUTH							
PIER							
PIER							
PIER							
PIER							

GENERAL CONDITION _____

GENERAL INFORMATIONDATE BUILT 1936 BY W.P.A. FABRICATOR (IF STEEL BRIDGE) _____CAN PLANS BE OBTAINED? No GIVE NAME AND ADDRESS _____EXTREME HIGH WATER ELEV. 1035.0 LOW WATER ELEV. 1031.2 EL. FLOOR 1036.38ALIGNMENT OF STRUCTURE Good SKEW OF STRUCTURE 25° 34' R.A.STREAM ALIGNMENT ABOVE STRUCTURE Good BELOW STRUCTURE PoorRIP RAP None CHANNEL PROTECTION NoneWHAT IS EFFECTIVE WATERWAY UNDER BRIDGE, AT 90° WITH DIRECTION OF FLOW, BELOW EXTREME HIGH WATER 145. SQ. FT.DOES THIS WATERWAY CARRY ENTIRE FLOOD DISCHARGE? YesDOES DRIFT PASS SATISFACTORILY? Yes DOES BRIDGE BACK UP WATER DURING FLOOD? NoIS THERE ANY INDICATION OF SCOUR AT PIERS OR ABUTMENTS? Yes, Upstream end of Bent No. 2DRAINAGE AREA ABOVE BRIDGE SITE 2.4 SQ. MILES. HOW OBTAINED? U.S.G.S. Topog. MapCHARACTER OF DRAINAGE AREA: FLAT, ROLLING, HILLY, OR MOUNTAINOUS. Hilly

STEEL BRIDGES.**TRUSSES**

TYPE OF TRUSSES	LENGTH OF SPANS-C. TO C.	NO. OF PANELS	LENGTH OF PANELS

PLATE GIRDERS

LENGTH-C. TO C. OF BEARINGS	DEPTH-B. TO B. OF FLANGE ANGLES	WEB THICKNESS	FLANGE SECTION AT CENTER TOP BOTTOM	SIZE AND SPACING OF RIVETS IN FLANGE AT ENDS

BEAM SPANS

LENGTH C. TO C. OF BEARINGS	SPACING OF BEAMS	SIZE AND SHAPE OF INSIDE BEAMS	SIZE AND SHAPE OF OUTSIDE BEAMS

ARCHES-FRAMES-SUSPENSIONS

(DESCRIBE FULLY)

FLOOR BEAMS AND CONNECTIONS

TYPE	NUMBER	SPACING	SECTION	SIZE-SHAPE-NET SECTION	NO. & SIZE RIVETS FLOOR BEAM TO CONN.	NO. & SIZE RIVETS CONN. TO TRUSS
INTER-MEDIATE FLOOR BEAMS						
END FLOOR BEAMS						

STRINGERS

KIND	NO. LINES	SIZE AND LENGTH	SPACING	FLANGE WIDTH	WEB THICKNESS
DO STRINGERS REST ON TOP OF FLOOR BEAMS		HOW FRAMED TO FLOOR BEAMS	NO. AND SIZE RIVETS STRINGER TO CONNECTION	NO. AND SIZE RIVETS CONNECTION TO FLOOR BEAM	

ARE SHELF
ANGLES USED**END STRINGERS - LENGTH**

SUPPORTS

FLOOR

TYPE	INCHES THICK	WEARING SURFACE	INCHES THICK
HOW FASTENED TO STRINGERS			

BRIDGE INSPECTION REPORT

COUNTY St Francis ROUTE NUMBER V BRIDGE NUMBER Y935
 DATE OF INSPECTION 4-15-54 INSPECTION MADE BY JAW
 TYPE OF SUPERSTR. 3-10' conc slabs TYPE OF SUBSTR. conc bents & abut

SUPERSTRUCTURE

1 TYPE AND CONDITION OF FLOOR AND WEARING SURFACE conc good
 2 CONDITION OF DRAINAGE is good
 3 CONDITION OF RAILING, CURBS, ETC. conc good with R
 4 CONDITION OF MAIN MEMBERS (TRUSSES, GIRDERS, BEAMS, ARCHES) good
 5 CONDITION OF FLOOR BEAMS AND CONNECTIONS ✓
 6 CONDITION OF JOISTS AND CONNECTIONS ✓
 7 CONDITION OF PAINT AND EXTENT OF CORROSION ✓

EXPANSION DEVICES AND SUPERSTRUCTURE SUPPORTS

8 ARE THEY FUNCTIONING PROPERLY 9 DO THEY REQUIRE 10 IS PROPER EXPANSION SPACE PROVIDED
 ROLLERS ROCKERS SLIDING PLATES CLEANING PAINTING OILING W. OR N. ABUT. E. OR S. ABUT. PIERS
 YES NO YES NO YES NO YES NO YES NO YES NO YES NO YES NO
cap bld good

11 DESCRIBE ANY DAMAGE TO STRUCTURE BY COLLISION, OVERLOADING, OR OTHER CAUSES

SUBSTRUCTURE

	MATERIAL	CONDITION	IS THERE ANY											
			SETTLING		SLIDING		TILTING		CRACKING		UNDERMINING		DISINTEGRATING	
			YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO
12 W. OR N. ABUTMENT	<u>conc</u>	<u>good</u>		✓		✓		✓		✓		✓		✓
13 E. OR S. ABUTMENT	<u>✓</u>	<u>good</u>		✓		✓		✓		✓		✓		✓
14 PIER <u>sb</u>	<u>✓</u>	<u>✓</u>		✓		✓		✓		✓		✓		✓
15 PIER <u>Nb</u>	<u>✓</u>	<u>✓</u>		✓		✓		✓		✓		✓		✓
16 PIER														
17 PIER														
18 PIER														

19 DESCRIBE IN DETAIL THE LOCATION, EXTENT, AND CAUSE OF ANY UNSATISFACTORY CONDITION LISTED ABOVE undermined at upstream end
crack across 2 bent

20 IF A SKEWED STRUCTURE, HAS THE SUPERSTRUCTURE MOVED TRANSVERSELY? no

21 CONDITION OF RIPRAP —

22 DESCRIBE DAMAGE, IF ANY, TO BACKWALLS AND WINGS none

GENERAL

23 ARE PROPER EXPANSION JOINTS PROVIDED IN RIGID PAVEMENT TO PROTECT STRUCTURE? no

24 CONDITION OF STREAM CHANNEL AT, ABOVE, AND BELOW BRIDGE SITE fair needs clearing

25 HAVE THE FOLLOWING REPAIRS, RECOMMENDED LAST YEAR, BEEN MADE?

a } good
3 } good
✓ } good
W } fair
Concrete around the
undermined end of the bent
and the dump large rocks
around it 400.00

26 REMARKS

BRIDGE INSPECTION REPORT

COUNTY	ROUTE NUMBER	BRIDGE NUMBER	DESIGN NUMBER
DATE OF INSPECTION	INSPECTION MADE BY		
TYPE OF SUPERSTR.	TYPE OF SUBSTR.		

27 REPAIRS RECOMMENDED

*use in place**Concrete the undermined section
upstream end of the south bent 400.00**note**Have the road plans provide for
upstream and downstream channel
cleanout*28 TOTAL ESTIMATED COST OF
REPAIRS RECOMMENDED

\$

29 REPAIRS COMPLETED
TO SUPERSTRUCTURE*T*30 ACTUAL COST OF REPAIRS
TO SUPERSTRUCTURE

\$

31 REPAIRS COMPLETED
TO SUBSTRUCTURE32 ACTUAL COST OF REPAIRS
TO SUBSTRUCTURE

\$

33 DATE WORK
WAS COMPLETED

GRAND TOTAL COST OF WORK COMPLETED

\$

34 HOW MUCH OF ITEM 33 IS
DUE TO FLOOD DAMAGE?

\$

HAS ANY MONEY BEEN SPENT IN VALLEY
CROSSING FROM SPECIAL FUNDS?

AMOUNT SPENT \$

AFE NO.

HOW MUCH SPECIAL FUNDS WAS
SPENT AT BRIDGE ENDS?

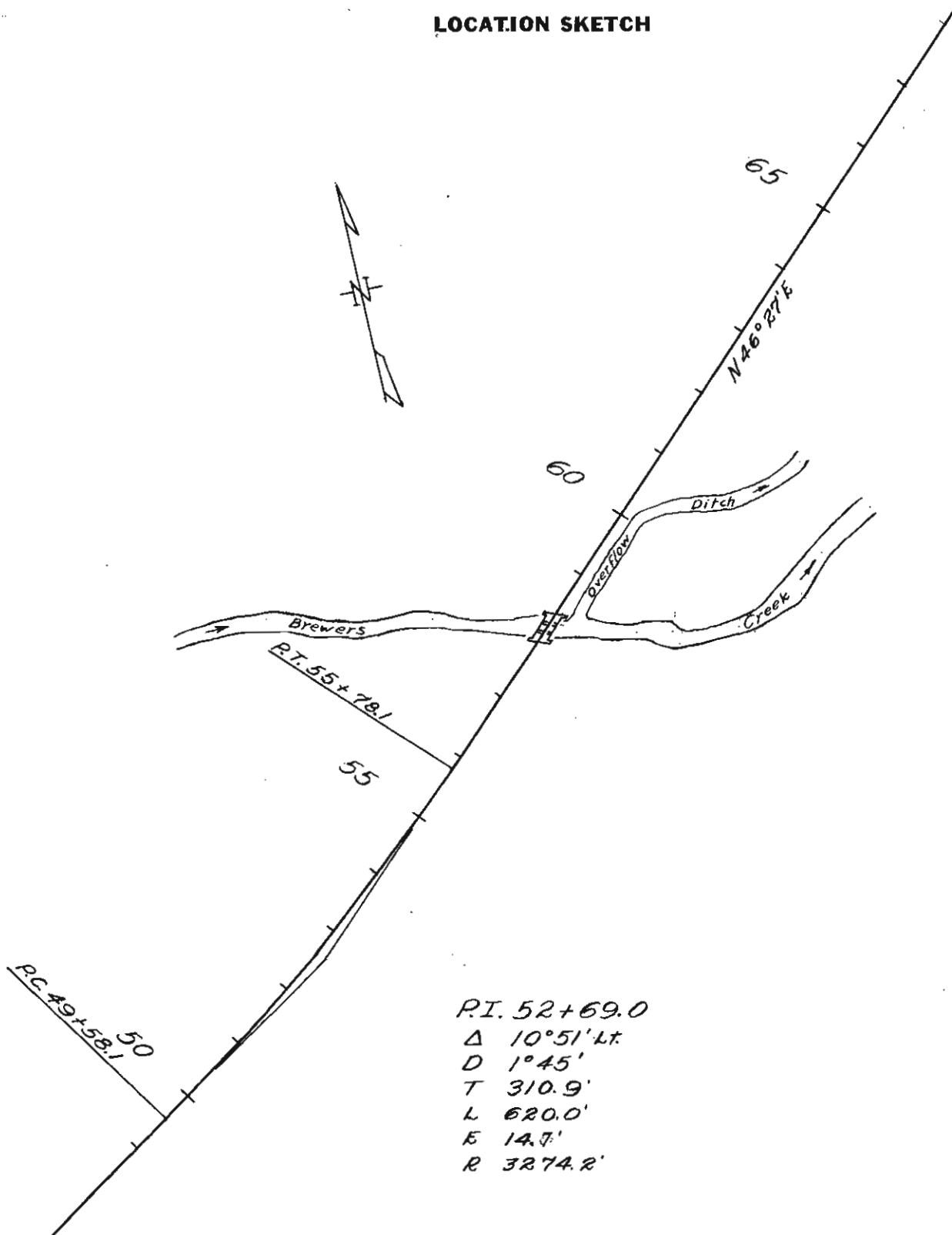
\$

HOW MUCH WAS SPENT SOME
DISTANCE FROM BRIDGE?

\$

REMARKS:

LOCATION SKETCH



NOTES: INDICATE ALIGNMENT 1,000 FT. EACH SIDE; INDICATE CHANNEL 500 FT. UPSTREAM AND DOWNSTREAM.
SHOW NORTH POINT.
SKETCH TO BE IN INK.

GENERAL REMARKS: Heavy scouring at upstream end of Bent No. 2
Downstream channel obstructed with heavy brush in channel
Upstream channel obstructed with heavy brush along banks.

GRADE SEPARATIONS

TYPE OF SEPARATION OVERHEAD
 UNDERPASS

SEPARATION OF

MAINTENANCE OF STRUCTURE BY

MAINTENANCE OF APPROACHES BY

MAINTENANCE OF DRAINAGE BY

MAINTENANCE OF LIGHTS BY

PROVISION FOR FUTURE R. R. DEVELOPMENT

ADDITIONAL INFORMATION

SHOW BELOW--BY SKETCH NO. OF TRACKS; R. R. AND HIGHWAY ALIGNMENT; SUBWAY CLEARANCES--HORIZONTAL AND VERTICAL

NOTE: SHOW STRUCTURAL DETAILS UNDER PROPER HEADING.

STREAM CROSSINGS

DESCRIBE FULLY LOW WATER BRIDGES, FORDS OR FERRY CROSSINGS

THICKNESS
OF SLAB *10"*

WIDTH OF GIRDER

AT CENTER

DEPTH OF GIRDER

AT ENDS

THICKNESS OF FLOOR SLAB

TYPE	SLAB RIB
------	-------------

MATERIAL

CLEAR SPAN

RISE

CROWN THICKNESS

**SPRING OR
HAUNCH THICKNESS**

BASE THICKNESS

FILLING MATERIAL

DEPTH OF FILL
AT CROWN

SIZE

LENGTH BACK TO BACK
OF HEADWALLS

SHOULDER WIDTH

FILL AT CENTER LINE

FLOOR—CONCRETE OR ROCK

STRINGERS

ACTUAL SIZE

SPACING

NO. OF LINES

SPECIES AND TREATMENT

HOW SUPPORTED

LAPPED OR BUTTED

TYPE

SIZE OR THICKNESS

SPECIES AND TREATMENT

HOW FASTENED TO STRINGERS OR CROSS BEAMS

HOW LAID

CROSS BEAMS

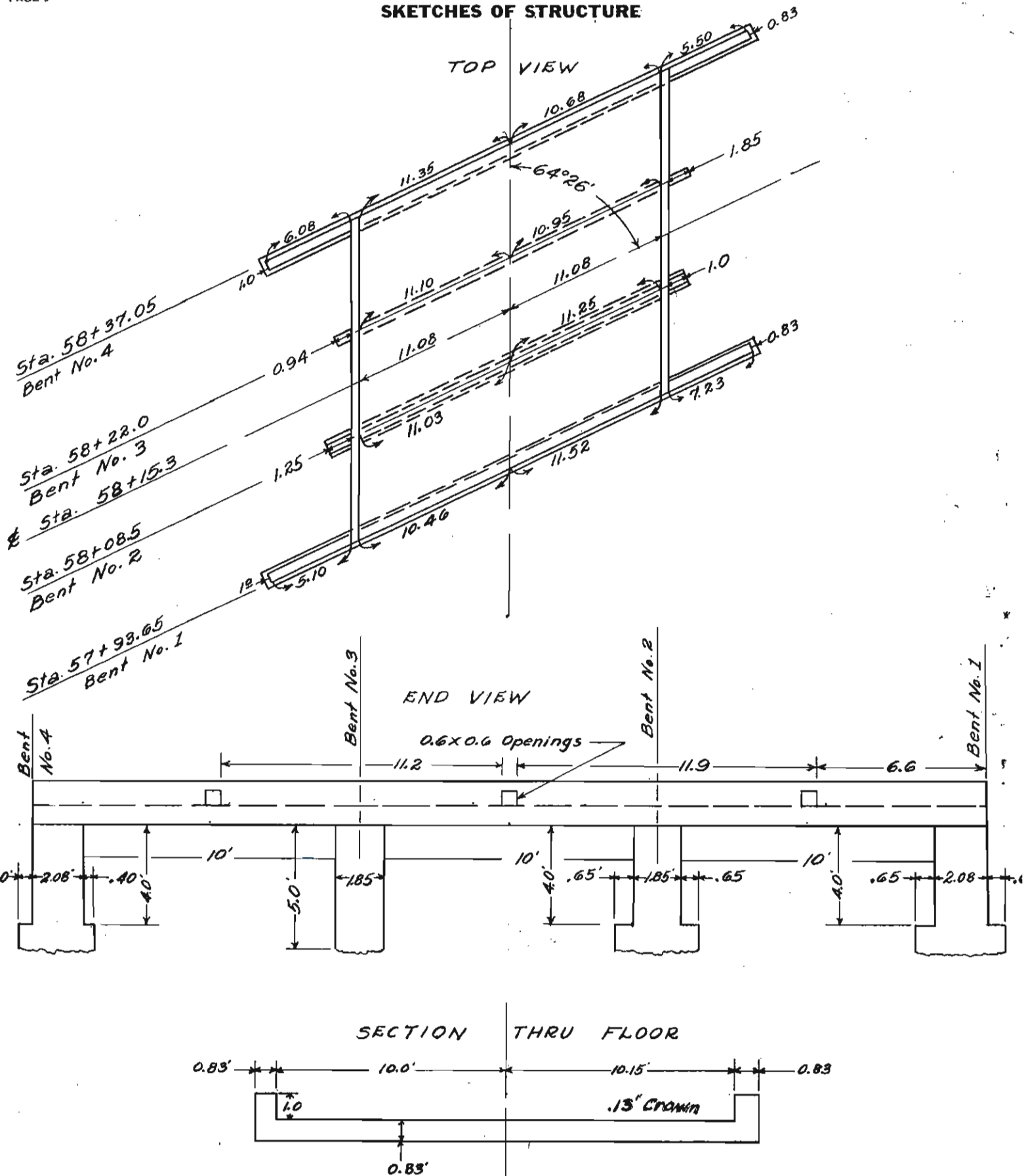
TRANEV.

LONG.

DIAG.**SIZE**

SPACING

SKETCHES OF STRUCTURE



NOTES: SHOW ELEVATION AND PLAN OF STRUCTURE.
 MAKE SKETCHES LARGE ENOUGH TO SHOW SIZES OF EACH MEMBER.
 SKETCHES TO BE IN INK.
 USE SEPARATE SHEETS FOR STRUCTURAL SKETCHES IF ADDITIONAL SPACE IS REQUIRED.

April 18, 1955

BRIDGES: Maintenance
Supplementary Bridges Used in Place
Bridge No. Y-935, Proj. No. S-1291(2)2a
Route V, St. Francois County

Mr. T. W. Johnson:

Work on the above project by bridge maintenance forces has been completed, and this project may be closed out.



Bridge Engineer

cc: Mr. Hodson
Mr. Corbett
Mr. White
file ✓
ABB:cja



April 18, 1955

BRIDGES: Maintenance
Supplementary Bridges Used in Place
Bridge No. Y-935, Proj. No. S-1291(2)2a
Route V, St. Francois County

Mr. J. J. Corbett:

Owing to high water which caused additional
scouring around the piers on the above bridge, we
find that additional finances in the amount of \$158.41
will be needed to complete this work.


Bridge Engineer

cc: T. W. Johnson
G. M. Harrison
Mr. White
✓ file ✓
ARB:cja





April 18, 1955

BRIDGES: Maintenance
Supplementary Bridges Used in Place
Bridge No. Y-935, Proj. S-1291(2)2a
Route V, St. Francois County

Mr. G. M. Harrison:

We have your letter of April 12, in which you gave us an itemized cost of repairing the above mentioned bridge.

Thank you for furnishing us with this information and for doing this work for us. We will arrange for additional finances to cover the overrun on this project.



Bridge Engineer

cc: Mr. White
ARB:cja
file ✓



RECEIVED

APR 15 1955

Bureau of Bridges

April 14, 1955

CONSTRUCTION: Bridge Repair
Route SV
Project S-1291(2)
St. Francois County


Mr. G. M. Harrison:

I am attaching Bridge Inspection Report Form No. B-702R in duplicate, which I received from the Division of Bridges to cover the report on the repair of the bridge at Station 57+93 on this project.

Since these repairs were made by your crew on this project, I request that you complete the report and return it to the Division of Bridges.

AEB:sfg

cc: Williams ✓


ROBERT W. HODSON
District Engineer





MISSOURI STATE
HIGHWAY DEPARTMENT

RECEIVED

APR 14 1955

INTER-DEPARTMENT CORRESPONDENCE

Bureau of Bridges

April 12, 1955

DATE

SUBJECT CONSTRUCTION: Bridges
Supplementary Bridge Used in Place
Bridge Y-936⁵- Station 57+93
Route V, Project S-1291(2)2a
St. Francois County

TO Mr. J. A. Williams: Attn: S. J. White

Reference is being made to our recent conversations with you, and correspondence from District 6 office, regarding repairs to above mentioned structure.

The repairs on same have now been completed and final cost data assembled. Following is a breakdown of our cost in performing this work:

Labor	\$459.45
Equipment Rental	25.56
Sand, Gravel and Chat	24.30
Cement	<u>89.10-</u>
Total Cost	\$598.41

Since the original setup for this work was \$440.00, it will be necessary to request additional finances in the amount of \$158.41. All of the above items have been payrolled and passed to the Auditor for payment.

A flash flood, after the scoured place under this bridge was drained and before rock could be placed to level up the flowline as per your sketch, caused additional scouring. As we did not deem it practical to backfill this area with dirt, considerable additional rock fill was required.

I trust you will arrange for the necessary additional finances.



G. M. Harrison



ANSWERED

By ARB-eja
Date 4-18-55

Verbal
or
Wire
Phone

RECEIVED

FEB 11 1955

Kirkwood, 22, Missouri
February 10, 1955

Bureau of Bridges

MAINTENANCE: Bridges
Supplementary Bridges Used in Place
Bridge No. Y-935, Station 57+93
Route V, St. Francois County

Mr. G. M. Harrison:

A fund of \$400 has been set up for construction by maintenance forces on the above project.

We believe that your construction crew which is working on the culverts adjacent to this bridge has the necessary equipment to repair this bridge and could do it more economically than we can. If they can possibly do this work we will furnish them with a copy of the sketch sent to us by Mr. Williams which shows exactly what is to be done.

The job will require pumping the water from the present stream bed and pouring a concrete footing under the present footings, and a grouted rock floor line in the structure.

We believe the best time of the year to do this work is before the spring rains, and while your forces are working there they can possibly do this work for us without too much inconvenience to them.

Please advise.

Robert W. Hodson
ROBERT W. HODSON
District Engineer

RIC:RB

cc: J. A. Williams

Jan 19 1955
W. A. Williams

February 9, 1955

BRIDGES: Maintenance
Supplementary Bridges Used in Place
Bridge No. Y-935, Station 57+93
Route V, St. Francois County

Mr. Robert W. Hodson:

This will acknowledge your letter of February 4, inquiring about the repairs to the above mentioned structure.

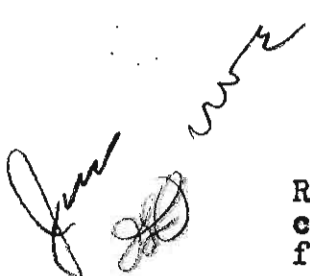
We believe that this structure may be satisfactorily repaired by building concrete aprons (tee walls) across the channel between the wings and paving the flow line with grouted rock. The holes at the upstream end of the intermediate walls may be completely filled with concrete while paving the flow lines. Attached is a sketch indicating the above described work.

If the opening between the top of the wall and the bottom of the slab is large enough, this may be filled with grout.


We trust that the above will give you all the necessary information to complete the repairs.



Bridge Engineer



RVG:fb
cc: Mr. White
file



HARRIS D. RODGERS, *Chairman*
Benton

J. G. MORGAN, *Vice-Chairman*
Unionville

JOHN J. POWERS, *Member*
5900 N. Broadway
St. Louis 15

J. C. HARLIN, *Member*
Gainesville

EDWARD L. CLARK, *Ex-Officio*
Rolla

MISSOURI
STATE HIGHWAY COMMISSION



RECEIVED

FEB - 7 1955

Bureau of Bridges

W. M. WHITTON, *Chief Engineer*
Jefferson City

P. H. DANIELLS, *Ass't Chief Eng.*
Jefferson City

ROBERT L. HYDER, *Chief Counsel*
Jefferson City

JOHN H. ACUFF, *Secretary*
Jefferson City

Kirkwood, 22, Missouri
February 4, 1955

MAINTENANCE: Bridges
Supplementary Bridges Used in Place
Bridge Y-935, Station 57+93
Route V - St. Francois County

Mr. J. A. Williams:

This will acknowledge receipt of your letter of February 2, 1955 telling us your suggestions for the correction of the above structure.

We believe that there is a misunderstanding concerning the condition of this structure. There is no floor in this structure and it has spread footings underneath the abutments and piers. The up-stream side is where we were getting the most washing and scouring underneath the footings. We drove a bar, as stated in our other letter, at both ends of all piers and abutments and found no solid rock anywhere.

As you can see, the grouted rock fill on the downstream end of this structure, as you suggested, would be of no use at all as there is no floor in the structure.

The #2 pier on the upstream end has been undermined by the water so that the pier is broken approximately 8' from the upstream side, and the pier has settled so that there is an opening of approximately $\frac{1}{4}$ " to $\frac{1}{2}$ " between the top of the pier and the bottom of the floor slab.

Robert W. Hodson
ROBERT W. HODSON
District Engineer

RG
BY *RG*
2-9-55

Wick
Vire
Pine

February 2, 1955

BRIDGES: Maintenance
Supplementary Bridges Used in Place
Bridge Y-935, Sta. 57+93
Route V, St. Francois County

Mr. R. W. Hodson:

This will acknowledge receipt of your letter of January 26, informing us of the scouring condition to the downstream end of the above mentioned bridge.

We note that you are unable to find solid rock within 3' of the paved flowline.

Please arrange to place a grouted rock fill at the downstream end of this culvert at your earliest convenience.



Bridge Engineer

✓
SJW:mjs

file



MISSOURI STATE
HIGHWAY DEPARTMENT

RECEIVED

JAN 27 1955

INTER-DEPARTMENT CORRESPONDENCE

Bureau of Bridges

January 26, 1955

DATE

SUBJECT MAINTENANCE: Bridge Maintenance
No. Y-935
Rt. V
St. Francois County

TO Mr. J. A. Williams:

As you know, there is \$400.00 set up in the Construction fund for the purpose of replacing a footing on the above bridge. When Mr. Robert Gevecker, of your office, was down here on bridge inspection, we showed him this particular footing and the remaining footings on this bridge, which are rapidly getting into the same condition. He asked us to do some prodding to see if we could find solid rock.

We took a bar and drove it into the creek for the length of the bar and approximately three feet below the bottom of this particular footing, and we could not locate any solid rock. This footing has a depth of two feet. The remaining footings are shallower in depth and the rod was driven to approximately the same elevation on the other three footings. There is no solid rock that we can find under any of the footings. These footings are all spread footings, apparently placed on a gravel bar. We do not believe that it is worth the cost of pouring new spread footings under this bridge.

We would appreciate having your opinion on this matter.

Robert W. Hodson

ROBERT W. HODSON
District Engineer

Jan 28

*SPW - mys
2-2-55*

mm

November 15, 1954

BRIDGES: Maintenance
Supplementary Bridges Used in Place
Bridge Y-935
Route V, St. Francois County

Mr. R. W. Hodson:

We are attaching duplicate copies of bridge maintenance reports, form B-702R, covering work to be performed by district maintenance forces and the cost of the work to be charged to construction funds as shown on the B-702R report.

When this work is completed, please return the original copy to this office giving a detailed description of the work performed, itemized cost and the date of completion.



Bridge Engineer

✓
SJW:mjs
file



MISSOURI STATE
HIGHWAY DEPARTMENT

RECEIVED

MAY 17 1954

INTER-DEPARTMENT CORRESPONDENCE

Bureau of Bridges

May 14, 1954

DATE

SUBJECT SUPPLEMENTARY HIGHWAYS AND LOCAL ROADS
U.I.P. Br. Y-935
Sta. 57⁴/₉₄
Project S-1291(2)
Route V, St. Francois County

TO MR. J. A. WILLIAMS:

I approve your repair recommendations for the above structure, and thru a copy of this letter request that the Division of Surveys and Plans provide a setup to the credit of Bridge maintenance forces in the amount of \$400.00

The channel cleanout recommended is included in the road work.

Fred D. Harris

Fred D. Harris, Engineer
Supplementary Highways & Local Roads

cc: R.W. Hodson
C.P. Owens

[Handwritten initials and signatures]

April 30, 1954

BRIDGES: Maintenance
Supplementary Bridges Used in Place
Bridge Y-935, Station 57+93.65
Route V, St. Francois County

Mr. F. D. Harris:

An inspection has been made of the above-mentioned structure over Brewers Creek located 4.3 miles northeast of Pilot Knob. The superstructure consists of 3-10' slab spans. The roadway width is 20'2". We found the superstructure in good condition.

The substructure consists of concrete abutments and bents which are in good condition.

No investigation has been made of the loading capacity, but we assume it will be good for a ten ton load. The alignment, grades and visibility are good. The channel is fair.

It will be satisfactory to use this structure in place with the following repair work:

Repair the undermined section upstream end
of the south bent




We estimate the cost of this work to be \$400.00 if performed by bridge maintenance forces, and therefore we will not ask for federal aid.

In addition to the above work the road plans should include a note for the channel cleanout upstream and downstream.

cc: Mr. R. W. Hodson
Mr. S. J. White


Bridge Engineer

RVG:mjs
file

MISSOURI STATE
HIGHWAY DEPARTMENT

RECEIVED

APR - 7 1954

INTER-DEPARTMENT CORRESPONDENCE
Bureau of Bridges

April 6, 1954

DATE

SUBJECT HIGHWAY PLANNING:
Bridge Y-935 - Route V
St. Francois County

TO J.A. WILLIAMS:

Reference is made to your letter of April 1, 1954, requesting design traffic for Bridge Y-935, on Route V, in St. Francois County, located approximately 4 miles southwest of Route W, in Section 15, southeast of Iron Mountain.

We do not have a count at this exact location; however, last year a design traffic volume of 34 vehicles daily was recorded 1 mile northeast of the proposed bridge site, near the center of Section 11. We also recorded 22 vehicles daily 1 mile southwest of the proposed bridge just south of the St. Francois County line, in Iron County.

Judging by these counts, the design volume for Bridge Y-935 would be approximately 25 to 30 vehicles daily.



Highway Planning Engineer

April 2, 1954

BRIDGES: Maintenance
Supplementary Bridges Used in Place
Bridge Y-935, Station 57+93.65
Route V, St. Francois County

Mr. R. W. Hodson:

Thank you for your letter of March 31,
together with used in place report for the above
mentioned bridge.

We will arrange to inspect the bridge
on this route as soon as possible.


Bridge Engineer

cc: Mr. White

mjs
file



MISSOURI STATE
HIGHWAY DEPARTMENT

RECEIVED

APR - 2 1954

INTER-DEPARTMENT CORRESPONDENCE

Bureau of Bridges

April 1, 1954

DATE

SUBJECT DESIGN: U.I.P. Bridge Report
Brewers Creek
Project S-1291(2)
Station 57+93.65
Route V, St. Francois County

TO Mr. J. A. Williams:

Our letter of March 31 covering U.I.P. Bridge Report at the above-noted stream crossing should have been St. Francois instead of Iron County.

Please correct your copy accordingly.



ROBERT W. HODSON
District Engineer

WJF:gic

G

April 1, 1954

BRIDGES: Surveys
Design Traffic
Route V, St. Francois County

Mr. S. M. Rudder:

Please furnish us design traffic for the following crossing on the above route.

Bridge No. Y-935 over Brewers Creek at Station 57+ on the road from Pilot Knob northeast toward Farmington. The bridge location is section 15, Twp. 34N, R4E.


The above information would be appreciated at your earliest convenience.



Bridge Engineer

WMF:ral

cc: file



MISSOURI STATE
HIGHWAY DEPARTMENT

RECEIVED

APR - 1 1954

INTER-DEPARTMENT CORRESPONDENCE

Bureau of Bridges

March 31, 1954

DATE

SUBJECT DESIGN: U.I.P. Bridge Report
Brewers Creek
Project S-1291(2)
Station 57+93.65
Route V, ~~Iron~~ County

Y-935

St. Francois

TO Mr. J. A. Williams:

I am attaching for your further handling a Bridge Report On Structure To Be Used In Place, Form B-706R, for the above-noted location.

For your information, the design work on roadway plans covering this route is now in progress.

Robert W. Hodson
ROBERT W. HODSON
District Engineer


Encl.


WJF:gie

wmf

RYS - mjs
4-2-54

WJF

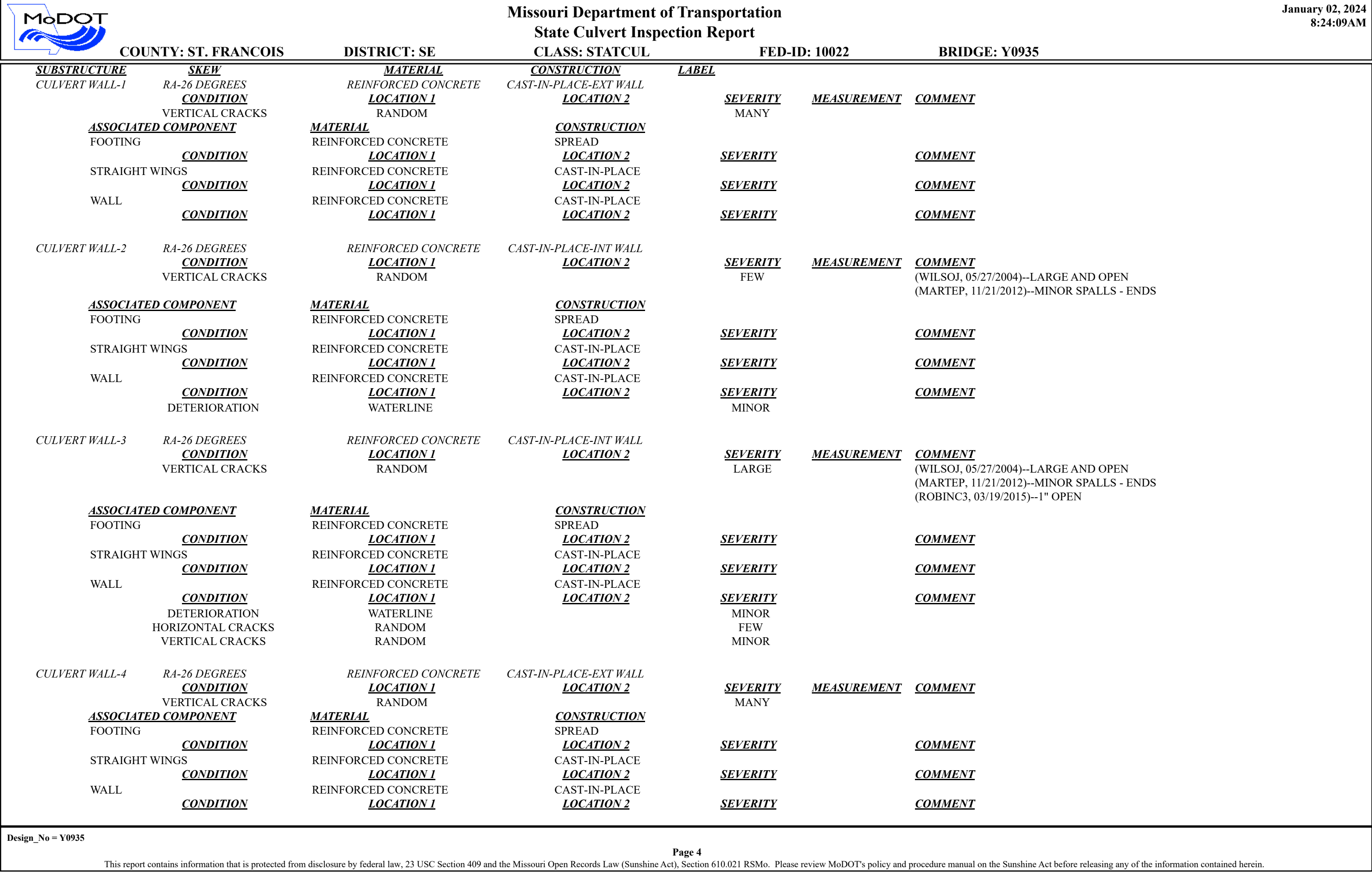
		Missouri Department of Transportation				January 02, 2024															
		State Culvert Inspection Report				8:24:09AM															
COUNTY: ST. FRANCOIS		DISTRICT: SE		CLASS: STATCUL		FED-ID: 10022															
						BRIDGE: Y0935															
GENERAL STRUCTURE INFORMATION						***CULVERT INSPECTION INFORMATION***															
ROUTE: MO221S FEATURE: BREWERS CR STATUS: A-OPEN LOG MILE: 11.704 DETOUR: 14.00 MILES NHS: NO BUILT: 1936 REHAB: LOCATION: S 15 T 34 R 4 E LATITUDE: 37 39 .99 (DMS) LONGITUDE: 90 34 28.21 (DMS)		# SPANS: 3 LANES ON: 2 FILL DEPTH: 1 FT COMPASS DIRECTION: NORTH to SOUTH DIRECTION OF TRAFFIC: 2-WAY TRAF FUNCTIONAL CLASS: RL-MINOR ARTERIAL NBI OWNER: MODOT NBI MAINTAINED: MODOT MAINTENANCE DISTRICT: SE MAINTENANCE COUNTY: ST. FRANCOIS SUB AREA: 7H05		PLACE CODE: 35378 IRON LENGTH: 33 FT 0 IN MAXIMUM SPAN: 10 FT 0 IN APPROACH ROADWAY: 25 FT 0 IN CURB TO CURB: 20 FT 1 IN BARREL LENGTH: 22 FT 2 IN AADT: 3165 AADT YEAR: 2022 AADT TRUCK: 4.6% FUTURE AADT: 5381 FUTURE AADT YEAR: 2042		DATE: 03/15/2023 RESPONSIBILITY: DISTRICT FREQUENCY: 24 CALCULATED INTERVAL**: TEAM LEADER: ED HESS ELEMENT: NO INSPECTOR 2: INSPECTOR 4: INSPECTOR 3: ** When calculated interval exceeds the frequency, a justification comment per BIRM is required.															
						GENERAL INSPECTION COMMENTS															
SPECIAL INSPECTION INFORMATION				***UNDERWATER INSPECTION INFORMATION***																	
DATE: 11/06/2012 RESPONSIBILITY: BRIDGEDIV CATEGORY: QUALITY ASSURANCE FREQUENCY: 999 CALCULATED INTERVAL**: TEAM LEADER: NBI: NO INSPECTOR 2: PATRICK MARTENS INSPECTOR 3: METHOD: INSPECTOR 4: ** When calculated interval exceeds the frequency, a justification comment per BIRM is required.				DATE: RESPONSIBILITY: CATEGORY: FREQUENCY: CALCULATED INTERVAL**: TEAM LEADER: NBI: INSPECTOR 2: INSPECTOR 3: METHOD: INSPECTOR 4: ** When calculated interval exceeds the frequency, a justification comment per BIRM is required.																	
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OTHER SPECIAL INSPECTIONS				OTHER UNDERWATER INSPECTIONS																	
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DATE	FREQUENCY	CATEGORY	NBI	CALCULATED INTERVAL	RESPONSIBILITY	METHOD															
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:															
COMMENTS:		PROBLEM DIRECTION:																			
GENERAL COMMENTS/MAJOR RATED ITEMS																					
GENERAL COMMENTS: (BOWDEJ1, 06/15/2009)--3 (10') CONC SLABS (FLOWLINE ROCK)																					
[ITEM 62] CULVERT: 4-POOR CONDITION RATING : 02/22/2019				COMMENTS: (DENNIB1, 09/25/2012)--CRACKING & SPALLING (CROCKC1, 02/22/2019)--LARGE SPALLS W/ FULLY EXP. REBAR IN CENTER BARREL AND NORTH BARREL ARE LOCATED IN VEHICLE WHEELPATH. ADDITIONALLY THE CENTERBARREL HAS A LARGE VERTICAL CRACK IN WALL 3.																	
Design_No = Y0935																					
Page 1																					
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 Culvert Inspection Report			January 02, 2024 8:24:09AM
COUNTY: ST. FRANCOIS		DISTRICT: SE	CLASS: STATCUL	FED-ID: 10022	BRIDGE: Y0935
DECK COMPONENTS					
<u>SPAN TYPE-#</u> MAIN SPANS-1	<u>COMPONENT</u> DECK	<u>MATERIAL</u> EARTH FILL	<u>CONSTRUCTION</u> NOT APPLICABLE	<u>COMMENTS</u>	
MAIN SPANS-2	DECK	EARTH FILL	NOT APPLICABLE		
MAIN SPANS-3	DECK	EARTH FILL	NOT APPLICABLE		
SUPERSTRUCTURE COMPONENTS					
<u>SERIES TYPE-#</u> MAIN SERIES-1	<u>SPAN TYPE</u> SIMPLE SPAN	<u>MATERIAL</u> REINFORCED CONCRETE	<u>CONSTRUCTION</u> BOX CULV-TRIP CELL	<u>LABEL</u>	
<u>SPAN</u> MAIN SPANS-1	<u>COMPOSITE INDICATOR</u> NON-COMPOSITE	<u>LENGTH</u> 10 FT 0 IN			
<u>CONDITION</u> DELAMINATION HONEY COMBS REBAR EXPOSED SPALLS		<u>LOCATION 1</u> BOTTOM BOTTOM BOTTOM BOTTOM	<u>LOCATION 2</u>	<u>SEVERITY</u> MODERATE MINOR HEAVY LARGE	<u>COMMENT</u> (MARTEP, 11/21/2012)--WEST SIDE (MARTEP, 11/21/2012)--EAST SIDE
MAIN SPANS-2	NON-COMPOSITE	10 FT 0 IN			
<u>CONDITION</u> DELAMINATION REBAR EXPOSED SECTION LOSS SPALLS		<u>LOCATION 1</u> BOTTOM BOTTOM BOTTOM BOTTOM	<u>LOCATION 2</u>	<u>SEVERITY</u> LARGE MANY ADVANCED LARGE	<u>COMMENT</u> (MARTEP, 11/21/2012)--WEST SIDE (MARTEP, 11/21/2012)--EAST SIDE (ROBINC3, 03/19/2015)--IN EXPOSED REBAR (MARTEP, 11/21/2012)--EAST SIDE
MAIN SPANS-3	NON-COMPOSITE	10 FT 0 IN			
<u>CONDITION</u> DELAMINATION REBAR EXPOSED SPALLS		<u>LOCATION 1</u> BOTTOM BOTTOM RANDOM	<u>LOCATION 2</u>	<u>SEVERITY</u> MINOR MINOR MINOR	<u>COMMENT</u> (MARTEP, 11/21/2012)--WEST SIDE
<u>ASSOCIATED COMPONENT</u> CULVERT TOP SLAB		<u>MATERIAL</u> REINFORCED CONCRETE	<u>CONSTRUCTION</u> CAST-IN-PLACE		
	<u>CONDITION</u> DETERIORATION REBAR EXPOSED SCALING SPALLS	<u>LOCATION 1</u> THROUGHOUT EDGE THROUGHOUT EDGE	<u>LOCATION 2</u>	<u>SEVERITY</u> MEDIUM EXCESSIVE MEDIUM LARGE	<u>COMMENT</u>
HEADWALL		REINFORCED CONCRETE	CAST-IN-PLACE		
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>
TOEWALL		REINFORCED CONCRETE	CAST-IN-PLACE		
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>
SUBSTRUCTURE COMPONENTS					

Design_No = Y0935

Page 3

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		<div>Missouri Department of Transportation</div> <div>State Culvert Inspection Report</div>			<div>January 02, 2024</div> <div>8:24:09AM</div>																																									
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OVER/UNDER ROUTES CLEARANCE INFORMATION																																														
<div><div><u>CLEARANCES OVER DECK</u></div><div><div>**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.</div><table><tr><th><u>VERTICAL CLEARANCE TYPE**</u></th><th><u>VALUE</u></th><th><u>DIRECTION</u></th><th><u>DATE</u></th><th><u>COMMENT</u></th></tr></table></div></div>						<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>																																				
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<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><th><u>Rated Item</u></th><th><u>Rating</u></th><th><u>Rating Date</u></th></tr><tr><td>[Item 67] Structure Evaluation Rating:</td><td>4-MEETS MINIMUM TOLERABLE</td><td>2/9/2017</td></tr><tr><td>[Item 68] Deck Geometry Rating:</td><td>2-BASICALLY INTOLRBLE REQ</td><td>3/26/2002</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>14.2%</td><td>2/26/2019</td></tr><tr><td>Deficiency:</td><td>STRUCTURAL</td><td>2/26/2019</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:	4-MEETS MINIMUM TOLERABLE	2/9/2017	[Item 68] Deck Geometry Rating:	2-BASICALLY INTOLRBLE REQ	3/26/2002	[Item 69] Underclearance:	N-NOT APPLICABLE	5/18/2001	Sufficiency Rating:	14.2%	2/26/2019	Deficiency:	STRUCTURAL	2/26/2019	Funding Eligibility:		----	Estimated New Structure Length:		----	Estimated Structure Cost:		----	Estimated Total Project Cost:		----	Year of Cost Estimate:		----	<table><tr><th><u>SIGN #</u></th><th><u>SIGN TYPE</u></th><th><u>PROBLEM</u></th><th><u>PROBLEM DIRECTION</u></th></tr><tr><td>1</td><td></td><td></td><td></td></tr></table>			<u>SIGN #</u>	<u>SIGN TYPE</u>	<u>PROBLEM</u>	<u>PROBLEM DIRECTION</u>	1			
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Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

January 2, 2024
8:21:22am

COUNTY : ST. FRANCOIS BRIDGE : Y0935 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 12/26/2023 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	ST. FRANCOIS	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	10022	5D	Route Number	00221
27	Year Built	1936	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	MO 221 S
42A	Type of Service On	HIGHWAY	12	Base Hwy. Network	YES
21	Structure Maintenance	STATE HIGHWAY AGENCY	13A	LRS Inventory Route No.	0000904191
22	Structure Owner	STATE HIGHWAY AGENCY	13B	Subroute No.	00
33	Br. Median Code	NO MEDIAN	20	Toll Status	ON FREE ROAD
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP	26	Functional Classification	06-RURAL MINOR ARTERIAL
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	IRON	29	AADT	3165
	Code	35378	30	AADT Year	2022
9	Location	S 15 T 34 N R 4 E	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	11.77 miles	109	AADT Truck Percent	5%
16	Latitude	37 D 39 M 1 S	114	Future AADT	5381
17	Longitude	90 D 34 M 28 S	115	Future AADT Year	2042
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	BREWERS CR	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	WATERWAY	19	By pass Detour Length	14.38 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	24 Ft. 11 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	26.00 Degrees
54B	Vert. Clearance	0 Ft. 0 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	N/A	47	Total Horiz. Clear	20 Ft. 0 In.
55B	Rt. Lat Clearance	0 Ft. 0 In.	48	Maximum Span Length	9 Ft. 10 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	33 Ft. 10 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	20 Ft. 0 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	20 Ft. 0 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design_No = Y0935 and Inventory_Appraisal_Submittal_Year = 2023



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Bridge Inventory and Inspection System
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RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 12/26/2023 SUBMITTAL YEAR : 2023

LOAD RATING AND POSTING INFORMATION			MATERIAL/CONSTRUCTION INFORMATION		
31	Design Load	H 10	43A	Main Struc. Mat type	CONCRETE
41	Structure Status	OPEN NO RESTRICTIONS	43B	Main struc Constr. Type	CULVERT
63	Oper. Rating Meth.	ENG JUDGMNT	45	# of Main Spans	3
64	Operating Rating	27 Tons.	44A	Appr Struc. Mat type	000
65	Inventory Rating Meth	ENG JUDGMNT	44B	Appr Struc. Cnstr. type	000
66	Inventory Rating	16 Tons.	46	# of Approach Span	0
70	Bridge Posting Code	=>LEGAL LOADS	107	Deck Mat/Constr.	NA
PROPOSED IMPROVEMENT INFORMATION			108A	Wear Surf Mat/Constr.	NA
Sufficiency Rating 14.2 Percent			108B	Membrane Mat/Constr.	NA
Deficiency Rating STRUCTURAL			108C	Deck Protect Mat/Constr.	NA
Funding Eligibility FULL			CONDITION RATING INFORMATION		
75A	Proposed Work	REPLACEMENT SUBSTND LOAD	58	Deck Cond. Rating	N
75B	Work Done By	Contract	59	Superstructure Cond. Rating	N
76	New Struc Length	55 Ft. 9 In.	60	Substructure Cond. Rating	N
94	Struc Improve Cost	\$ 300,000	61	Channel /Channel Protection Cond. Rating	6
95	Roadway Improve Cost	\$ 30,000	62	Culvert Cond. Rating	4
96	Total Project Cost	\$ 450,000	INSPECTION INFORMATION		
97	Year of Cost Estimates	2023	90	Gen. Insp Date	3 / 23
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	4	92C	Special Inspection	N Months
68	Deck Geometry App. Rating	2	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 = Y0935 and Inventory_Appraisal_Submittal_Year = 2023