Bridge Number: G0269R

Route/County: 32/Iron

## 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: ☒

Galvanized

### Pile LBP?

Yes: ☐ No: ☐

# MEMORANDUM

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

**TO:** TMS

**FROM:** Diane Roegge
Environmental Chemist

**DATE:** January 25, 2016

**SUBJECT:** Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route 32
Bridge G-0269R
Iron 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/southeast (se)/mt/g0269r/dr16012513.docx
Attachments

Form T746
Rev. 04/2003



# MISSOURI DEPARTMENT OF TRANSPORTATION
## CONSTRUCTION AND MATERIALS
### Asbestos Survey Report
### All Suspect ACM

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **SURVEYED BY:** | Frank Reichart & Diane Roegge |
| **MODOT JOB NO.:** | J9P0592 | **CERTIFICATION #:** | 7028012508MOIR11239, F.R. |
| **DISTRICT:** | 9 | **CERTIFICATION #:** | 7028012508MOIR7165, D.R. |
| **COUNTY:** | Iron | **SITE ADDRESS:** | Over Reeds Creek, 0.8 mile West of Rt 21 |
| **DATE OF SURVEY:** | May 20, 2008 | **TYPE OF STRUCTURE:** | Bridge |
| **PARCEL NO.:** | Bridge G-0269R | | |

| Sample ID | Type of Materials | Location of Material | Friability Category | Field Measure |
|---|---|---|---|---|
| | No samples taken. No suspect ACM located. | | | |
| | | | | |
| | Bridge Paint is not a suspect ACM per MSDS's on file. | | | |
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N-ACM = Non-Asbestos Containing Material  I NF = Category I Nonfriable  II NF = Category II Nonfriable  F = Friable
NAFD = No Asbestos Fiber Detected  * = Tested By Point Count Procedure

Form T747
Rev. 12/2005



# MISSOURI DEPARTMENT OF TRANSPORTATION
## CONSTRUCTION AND MATERIALS
### Asbestos Survey Report
### Nonfriable Asbestos-Containing Materials
**(Abatement not required if not made friable during demolition.)**

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **TESTED BY:** | Frank Reichart and Diane Roegge |
| **MODOT JOB NO.:** | J9P0592 | **CERTIFICATION #:** | 7028012508MOIR11239, F.R. |
| **DISTRICT:** | 9 | **CERTIFICATION #:** | 7028012508MOIR7165, D.R. |
| **COUNTY:** | Iron | **SITE ADDRESS:** | Over Reeds Creek, 0.8 mile West of Rt 21 |
| **DATE OF TESTS:** | N/A | **TYPE OF STRUCTURE:** | Bridge |
| **PARCEL NO.:** | Bridge G-0269R | | |

| Sample ID | Type of Material | Location of Material | Friability Category | Field Measure | Asbestos Type | Percent |
|---|---|---|---|---|---|---|
| | | None Located | I NF | | | |
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**All necessary work to handle this material is the contractor's responsibility.**

I NF = Category I Nonfriable

Form T748
Rev. 04/2003



# MISSOURI DEPARTMENT OF TRANSPORTATION
## CONSTRUCTION AND MATERIALS
### Asbestos Survey Report
**All materials requiring removal or special handling.**

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **TESTED BY:** | Frank Reichart and Diane Roegge |
| **MODOT JOB NO.:** | J9P0592 | **CERTIFICATION #:** | 7028012508MOIR11239, F.R. |
| **DISTRICT:** | 9 | **CERTIFICATION #:** | 7028012508MOIR7165, D.R. |
| **COUNTY:** | Iron | **SITE ADDRESS:** | Over Reeds Creek, 0.8 mile West of Rt 21 |
| **DATE OF TESTS:** | N/A | **TYPE OF STRUCTURE:** | Bridge |
| **PARCEL NO.:** | Bridge G-0269R | | |

| Bid Item No. | Sample ID | Type of Material | Location of Material | Friability Category | Field Measure | Asbestos Type | Percent |
|---|---|---|---|---|---|---|---|
| | | | None Located | F | | | |
| | | | None Located | II NF | | | |

I NF = Category I Nonfriable  II NF = Category II Nonfriable  F = Friable  * = Tested By Point Count Procedure

Form C760
Rev. 04/2003



# MISSOURI DEPARTMENT OF TRANSPORTATION
## CONSTRUCTION AND MATERIALS
### Metals Survey Report of Painted Concrete, Block, Brick and Surfaces

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **TESTED BY:** | N/A |
| **MODOT JOB NO.:** | J9P0592 | **DATE OF TESTS:** | N/A |
| **DISTRICT:** | 9 | **PARCEL NO.:** | Bridge G-0269R |
| **COUNTY:** | Iron | **SITE ADDRESS:** | Over Reeds Creek, 0.8 mile West of Rt 21 |
| **SURVEYED BY:** | Frank Reichart | **TYPE OF STRUCTURE:** | Bridge |
| **DATE OF SURVEY:** | May 20, 2008 | | |

| Sample ID | Color/Location of Material/Substrate | Metals (ppm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | As | Cr | Pb | Cd | Se | Ba | Hg | Ag |
| | No samples taken. No painted surfaces located. | | | | | | | | |
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All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050
b = USEPA SW-846 Method 7471

Expiration Date: **1/25/2009** Certificate Number: 7028012508MOIR11239

Training Date: **1/25/2008**

## 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.

3/14/2008
Date

James L. Kavanaugh
Director of Air Pollution Control Program

Expiration Date: **1/25/2009** Certificate Number: 7028012508MOIR7165

Training Date: **1/25/2008**

## 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.

3/14/2008
Date

James L. Kavanaugh
Director of Air Pollution Control Program

# Missouri Department of Transportation
## State Bridge Inspection Report

November 06, 2025
3:11:44PM

**COUNTY: IRON** **DISTRICT: SE** **CLASS: STATBR** **FED-ID: 4574** **BRIDGE: G0269**

### ***GENERAL STRUCTURE INFORMATION***

| | | | | | |
|---|---|---|---|---|---|
| **ROUTE:** | MO32E | **# SPANS:** | 1 | **PLACE CODE:** | 35360 IRON |
| **FEATURE:** | CEDAR CR | **LANES ON:** | 2 | **LENGTH:** | 53 FT 0 IN |
| **STATUS:** | A-OPEN | **LANES UNDER:** | 0 | **MAXIMUM SPAN:** | 50 FT 0 IN |
| **LOG MILE:** | 225.640 | **COMPASS DIRECTION:** | EAST to WEST | **APPROACH ROADWAY:** | 22 FT 0 IN |
| **DETOUR:** | 40.00 MILES | **DIRECTION OF TRAFFIC:** | 2-WAY TRAF | **CURB TO CURB:** | 20 FT 4 IN |
| **NHS:** | NO | **FUNCTIONAL CLASS:** | RL-MINOR ARTERIAL | **OUT TO OUT:** | 21 FT 0 IN |
| **BUILT:** | 1922 | **NBI OWNER:** | MODOT | **AADT:** | 860 |
| **REHAB:** | | **NBI MAINTAINED:** | MODOT | **AADT YEAR:** | 2024 |
| **LOCATION:** | S 218 T 35 R 2 E | **MAINTENANCE DISTRICT:** | SE | **AADT TRUCK:** | 23.7% |
| **LATITUDE:** | 37 42 36.45 (DMS) | **MAINTENANCE COUNTY:** | IRON | **FUTURE AADT:** | 1290 |
| **LONGITUDE:** | 90 45 32.27 (DMS) | **SUB AREA:** | 7H05 | **FUTURE AADT YEAR:** | 2044 |

### ***BRIDGE INSPECTION INFORMATION***

**DATE:** 10/01/2025 **RESPONSIBILITY:** DISTRICT
**FREQUENCY:** 24 **CALCULATED INTERVAL**:** 24
**TEAM LEADER:** JERROD JERNIGAN **ELEMENT:** NO
**INSPECTOR 2:** **INSPECTOR 4:**
**INSPECTOR 3:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

#### *GENERAL INSPECTION COMMENTS*

### ***FRACTURE CRITICAL INSPECTION INFORMATION***

**DATE:** **RESPONSIBILITY:** **CATEGORY:**
**FREQUENCY:** **CALCULATED INTERVAL**:** **NBI:**
**TEAM LEADER:** **INSPECTOR 3:** **METHOD:**
**INSPECTOR 2:** **INSPECTOR 4:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

### ***INDEPTH INSPECTION INFORMATION***

**DATE:** **RESPONSIBILITY:** **CATEGORY:**
**FREQUENCY:** **CALCULATED INTERVAL**:** **NBI:**
**TEAM LEADER:** **INSPECTOR 3:** **METHOD:**
**INSPECTOR 2:** **INSPECTOR 4:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

#### *FRACTURE CRITICAL INSPECTION COMMENTS*

#### *INDEPTH INSPECTION COMMENTS*

### ***SPECIAL INSPECTION INFORMATION***

**DATE:** 07/11/2024 **RESPONSIBILITY:** DISTRICT **CATEGORY:** CHANNEL CROSS SEC
**FREQUENCY:** 120 **CALCULATED INTERVAL**:** 120 **NBI:** NO
**TEAM LEADER:** ED HESS **INSPECTOR 3:** **METHOD:** WT TAPE
**INSPECTOR 2:** **INSPECTOR 4:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

### ***UNDERWATER INSPECTION INFORMATION***

**DATE:** 10/01/2025 **RESPONSIBILITY:** DISTRICT **CATEGORY:** DRY
**FREQUENCY:** 60 **CALCULATED INTERVAL**:** 24 **NBI:** NO
**TEAM LEADER:** JERROD JERNIGAN **INSPECTOR 3:** **METHOD:** VISUAL
**INSPECTOR 2:** **INSPECTOR 4:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

#### *SPECIAL INSPECTION COMMENTS*

#### *UNDERWATER INSPECTION COMMENTS*

### OTHER SPECIAL INSPECTIONS

| DATE | FREQUENCY | CATEGORY | NBI | CALCULATED INTERVAL | RESPONSIBILITY | METHOD |
|---|---|---|---|---|---|---|

### OTHER UNDERWATER INSPECTIONS

| DATE | FREQUENCY | CATEGORY | NBI | CALCULATED INTERVAL | RESPONSIBILITY | METHOD |
|---|---|---|---|---|---|---|



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## ***STRUCTURE POSTING***

**APPROVED CATEGORY:** S-1 NO POSTING REQUIRED
**Ton 1:** **Ton 2:** **Ton 3:**
**COMMENTS:**

**FIELD CATEGORY:** S-1 NO POSTING REQUIRED
**Ton 1:** **Ton 2:** **Ton 3:** **PROBLEM:** **PROBLEM DIRECTION:**
**COMMENTS:**

## ***GENERAL COMMENTS/MAJOR RATED ITEMS***

**GENERAL COMMENTS:** (BOWDEJ1, 08/28/2008)--(50') CONC CLOSED SPANDREL ARCH SPAN (FILLED)

**[ITEM 58] DECK:** 6-SATISFACTORY CONDITION **COMMENTS:**
**RATING :** 05/18/2001

**[ITEM 59] SUPER:** 5-FAIR CONDITION **COMMENTS:** (DENNIB1, 10/14/2015)--CRACKS & SPALLS
**RATING :** 10/19/2021

**[ITEM 60] SUB:** 6-SATISFACTORY CONDITION **COMMENTS:** (DENNIB1, 10/14/2015)--DIAGONAL CRACKS
**RATING :** 05/18/2001

**[ITEM 61] BANK/CHANNEL:** 6-WIDESPREAD MINOR DAMAGE **COMMENTS:**
**RATING :** 10/23/2019

**[ITEM 113] SCOUR:** 8-STABLE FOR CALCULATED **COMMENTS:**
**RATING :** 05/18/2001
**EVALUATION TYPE :**

**[ITEM 71] WATERWAY ADEQUACY:** DECK ABOVE FLOOD ELEV **COMMENTS:**
**RATING :** 05/18/2001

**[ITEM 72] APPRRDWY ALIGNMENT:** 4-POOR **COMMENTS:**
**RATING :** 05/18/2001

## ***RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS***

***[ITEM 36A] BRIDGE RAILING RATING:*** *MEETS CURRENT STANDARDS-1* ***RATING :*** *05/18/2001* ***COMMENTS:***

| MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|
| GALVANIZED STEEL | THRIE BEAM | BOTH | |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | COMMENT |
|---|---|---|---|---|
| COLLISION DAMAGE | THROUGHOUT | | MODERATE | (BOWDEJ1, 04/26/2010)--N. SIDE |

***[ITEM 36B] TRANSITION RAILING RATING:*** *MEETS CURRENT STANDARDS-1* ***RATING :*** *10/19/2021* ***COMMENTS:***

| MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|
| GALVANIZED STEEL | THRIE BEAM TO W-BEAM | ALL | |

***[ITEM 36C] APPROACH RAILING RATING:*** *MEETS CURRENT STANDARDS-1* ***RATING :*** *10/19/2021* ***COMMENTS:***

| MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|
| GALVANIZED STEEL | W-BEAM | ALL | |

***[ITEM 36D] RAIL END TREATMENT RATING:*** *MEETS CURRENT STANDARDS-1* ***RATING :*** *10/19/2021* ***COMMENTS:***


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| MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|
| GALVANIZED STEEL | BREKAWAY SYSTEM | ALL | |

**APPROACH PAVEMENT:** *Overall condition assigned for each approach pavemenet component is shown below.

| MATERIAL | CONSTRUCTION | DIRECTION | CONDITION* | COMMENTS |
|---|---|---|---|---|
| ASPHALT | BITUMINOUS MAT | BOTH | | |

## ***DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS***

***DECK PROTECTIVE COMPONENTS:***

| SERIES TYPE-# | COMPONENT | MATERIAL | CONSTRUCTION | THICKNESS | YEAR APPLIED | MANUFACTURE | OVERALL CONDITION |
|---|---|---|---|---|---|---|---|
| *MAIN SERIES-1* | *WEARING SURFACE* | *ASPHALT* | *BITUMINOUS MAT* | *7 IN* | *2019* | | *GOOD* |
| ***COMMENT:*** | | | | | | | |
| | *DECK PROTECTION* | *NOTAPPLICABLE* | *NONE* | | | | |
| ***COMMENT:*** | | | | | | | |
| | *MEMBRANE* | *LIQUID SEALANT* | *BUILT-UP* | | | | |
| ***COMMENT:*** | | | | | | | |

***DRAINAGE COMPONENTS:***

| COMPONENT | MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|---|

***EXPANSION DEVICE COMPONENTS:***

| SUB UNIT-# | SUB LABEL | COMPONENT | MATERIAL | CONSTRUCTION | GAP | YEAR APPLIED | MANUFACTURE | OVERALL CONDITION |
|---|---|---|---|---|---|---|---|---|
| ***COMMENT:*** | | | | | | | | |

***BANK/SLOPE PROTECTION COMPONENTS:***

| COMPONENT | MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|---|
| *BANK PROTECTION* | *EARTH FILL* | *BERM* | *BOTH* | |

## ***DECK COMPONENTS***

| SPAN TYPE-# | COMPONENT | MATERIAL | CONSTRUCTION | COMMENTS |
|---|---|---|---|---|
| *MAIN SPANS-1* | *DECK* | *REINFORCED CONCRETE* | *CAST-IN-PLACE* | |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| SATURATION | EDGE | | MODERATE | | |

## ***SUPERSTRUCTURE COMPONENTS***

| SERIES TYPE-# | SPAN TYPE | MATERIAL | CONSTRUCTION | LABEL | COMMENTS |
|---|---|---|---|---|---|
| *MAIN SERIES-1* | *SIMPLE SPAN* | *REINFORCED CONCRETE* | *CLOSED/FILLED SPAND ARCH* | | |

| SPAN | COMPOSITE INDICATOR | LENGTH | WEATHERING STEEL | COMMENTS |
|---|---|---|---|---|
| MAIN SPANS-1 | NON-COMPOSITE | 50 FT 0 IN | NO | |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| DIAGONAL CRACKS | BOTTOM | | MINOR | | |
| EFFLORESCENCE | BOTTOM | | MINOR | | |
| REBAR EXPOSED | EDGE | | MODERATE | | |


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| | | |
|---|---|---|
| SPALLS | BOTTOM | MODERATE |

## ***SUBSTRUCTURE COMPONENTS***

| SUBSTRUCTURE | SKEW | LENGTH | MATERIAL | CONSTRUCTION | LABEL | COMMENTS |
|---|---|---|---|---|---|---|
| ABUTMENT-1 | | 20 FT 6 IN | REINFORCED CONCRETE | CANTILEVER | | |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|

| ASSOCIATED COMPONENT | MATERIAL | CONSTRUCTION |
|---|---|---|
| FLARED WINGS | REINFORCED CONCRETE | CAST-IN-PLACE |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| DIAGONAL CRACKS | RANDOM | | FEW | | |

| | | |
|---|---|---|
| FOOTING | REINFORCED CONCRETE | SPREAD |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| ABUTMENT-2 | | 20 FT 6 IN | REINFORCED CONCRETE | CANTILEVER | |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|

| ASSOCIATED COMPONENT | MATERIAL | CONSTRUCTION |
|---|---|---|
| FLARED WINGS | REINFORCED CONCRETE | CAST-IN-PLACE |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| DIAGONAL CRACKS | RANDOM | | FEW | | |

| | | |
|---|---|---|
| FOOTING | REINFORCED CONCRETE | SPREAD |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|

## ***OVER/UNDER ROUTES CLEARANCE INFORMATION***

***CLEARANCES OVER DECK***

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

| VERTICAL CLEARANCE TYPE** | VALUE | DIRECTION | DATE | COMMENT |
|---|---|---|---|---|

***CLEARANCES UNDER BRIDGE***

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

| RECORD # | ROUTE | # LANES | DIRECTION OF TRAFFIC | RIGHT LATERAL CLEARANCE | LEFT LATERAL CLEARANCE | UR-ID |
|---|---|---|---|---|---|---|

| VERTICAL CLEARANCE TYPE** | VALUE | DIRECTION | DATE | COMMENT |
|---|---|---|---|---|

## ***STRUCTURE PAINT INFORMATION***


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COUNTY: IRON | DISTRICT: SE | CLASS: STATBR | FED-ID: 4574 | BRIDGE: G0269

CONDITION: | RUST AMOUNT : | STEEL TONS : 0

| ORIGINAL PAINT | CONTRACT REPAINT | DEPARTMENT REPAINT | |
|---|---|---|---|
| PAINT TYPE : | PAINT TYPE : | PAINT TYPE : | MANUFACTURE : |
| NAME : | NAME : | NAME : | SURFACE PREP : |
| PAINT COLOR : | PAINT COLOR : | PAINT COLOR : | |
| PAINT YEAR : | PAINT YEAR : | PAINT YEAR : | |
| MILS : | MILS : | MILS : | |

## ***REQUESTED WORK ITEMS***

GENERAL WORK COMMENTS:

| *RESPONSIBILITY* | *LOCATION* | *ITEM* | *CATEGORY* | *PRIORITY* | *DATE* | *WORK ITEM COMMENT* |
|---|---|---|---|---|---|---|

## ***UTILITY ATTACHMENTS***

| *UTILITY* | *OWNER* | *METHOD* | *MEASUREMENT TYPE* | *VALUE* | *NUMBER* | *UTILITY ATTACHMENT COMMENT* |
|---|---|---|---|---|---|---|

## ***PROGRAM NOTES INFORMATION***

| YEAR | PROJECT # | MONTH LET | YEAR LET | ITEMS | COMMENT |
|---|---|---|---|---|---|
| 2027 | SE0038 | 1 | 2027 | REPLACE BRIDGE | |

## ***COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS***

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.

| Rated Item | Rating | Rating Date |
|---|---|---|
| **[Item 67] Structure Evaluation Rating:** | 5-BETTER THAN MINIMUM | 10/21/2021 |
| **[Item 68] Deck Geometry Rating:** | 3-BASICALLY INTOL CORRECT | 5/12/2021 |
| **[Item 69] Underclearance:** | N-NOT APPLICABLE | 3/18/2002 |
| **Sufficiency Rating:** | 63.7% | 7/16/2025 |
| **Deficiency:** | FUNCTIONAL | 7/16/2025 |
| **Funding Eligibility:** | PARTIAL | ---- |
| **Estimated New Structure Length:** | 75 FT. | ---- |
| **Estimated Structure Cost:** | $295,749 | ---- |
| **Estimated Total Project Cost:** | $443,624 | ---- |
| **Year of Cost Estimate:** | 2025 | ---- |

NOTE: The above structure length and cost estimates are computer generated using algorithims in the TMS system. These algorthims 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.

## ***ADVANCED SIGN INFORMATION***

| SIGN # | SIGN TYPE | PROBLEM | PROBLEM DIRECTION |
|---|---|---|---|
| 1 | | | |

## ***OUTFALL INSPECTION INFORMATION***

# OUTFALLS: | INSPECTOR:
STATUS: | DATE:
NOTES:



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

November 6, 2025
3:09:28pm

| | | | | | |
|---|---|---|---|---|---|
| COUNTY : | IRON | BRIDGE : | G0269 R | REVIEW STATUS : | APPROVED |
| NBI STATUS : | T | RECORD TYPE : | ROUTE CARRIED 'ON' STRUCT | RUN DATE : | 10/16/2025 |
| SUBMITTAL YEAR : | 2025 | | | | |

### GENERAL STRUCTURE INFORMATION

| | | |
|---|---|---|
| 1 | State | MISSOURI |
| 2 | District | SE |
| 3 | County | IRON |
| 8 | Federal ID No. | 4574 |
| 27 | Year Built | 1922 |
| 106 | Year Reconstructed | 0 |
| 42A | Type of Service On | HIGHWAY |
| 21 | Structure Maintenance | STATE HIGHWAY AGENCY |
| 22 | Structure Owner | STATE HIGHWAY AGENCY |
| 33 | Br. Median Code | NO MEDIAN |
| 37 | Historical Significance | HISTORICAL SIGNIF UNKNWN |
| 101 | Parallel Struc Desg | NONE EXISTS |
| 103 | Temporary Structure | NOT TEMPORARY |
| 112 | NBIS Bridge Length | YES |

### ROUTE DESIGNATION INFORMATION

| | | |
|---|---|---|
| 5A | Record Type | ROUTE CARRIED 'ON' STRUCT |
| 5B | Route Signing Prefix | MO |
| 5C | Designated Level of Service | MAINLINE |
| 5D | Route Number | 00032 |
| 5E | Directional Suffix | NOT APPLICABLE |
| 7 | Facility Carried | MO 32 E |
| 12 | Base Hwy. Network | YES |
| 13A | LRS Inventory Route No. | 0000001056 |
| 13B | Subroute No. | 00 |
| 20 | Toll Status | ON FREE ROAD |
| 26 | Functional Classification | 06-RURAL MINOR ARTERIAL |
| 28A | Lanes on Structure | 02 |
| 100 | STRAHNET Designation | RTE NOT A DEFENSE HWY |
| 104 | National Highway System | NOT ON NHS |
| 105 | Federal Lands Highway | NOT APPLICABLE |
| 110 | Designated Nat. Network | YES |

### STRUCTURE LOCATION INFORMATION

| | | |
|---|---|---|
| 4 | Place | IRON |
| | Code | 35360 |
| 9 | Location | S 218 T 35 N R 2 E |
| 11 | Milepoint | 226.96 miles |
| 16 | Latitude | 37 D 42 M 36 S |
| 17 | Longitude | 90 D 45 M 32 S |

### STRUCTURE TRAFFIC INFORMATION

| | | |
|---|---|---|
| 29 | AADT | 860 |
| 30 | AADT Year | 2024 |
| 102 | Direction of Traffic | 2-WAY TRAFFIC |
| 109 | AADT Truck Percent | 24% |
| 114 | Future AADT | 1290 |
| 115 | Future AADT Year | 2044 |

### UNDERRECORD INFORMATION

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

### STRUCTURE GEOMETRIC INFORMATION

| | | |
|---|---|---|
| 10 | Inventory Rte. Vert. Clear | 99 Ft. 99 In. |
| 19 | By pass Detour Length | 40.00 miles |
| 32 | Approach Roadway Width | 21 Ft. 12 In. |
| 34 | Skew | 0.00 Degrees |
| 35 | Struct. Flared | NO |
| 47 | Total Horiz. Clear | 20 Ft. 4 In. |
| 48 | Maximum Span Length | 49 Ft. 10 In. |
| 49 | Structure Length | 53 Ft. 2 In. |
| 50A | Left Curb/Sidewalk Width | 0 Ft. 0 In. |
| 50B | Right Curb/Sidewalk Width | 0 Ft. 0 In. |
| 51 | Curb to Curb Br. Width | 20 Ft. 4 In. |
| 52 | Deck Width (Out-Out) | 20 Ft. 12 In. |
| 53 | Vert.Clearance Over Deck | 99 Ft. 99 In. |

Design_No = g0269 and Inventory_Appraisal_Submittal_Year = 2025



*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
## Bridge Inventory and Inspection System
## Structural Inventory & Appraisal Sheet

November 6, 2025
3:09:28pm

| | | | | | |
|---|---|---|---|---|---|
| COUNTY : | IRON | BRIDGE : | G0269 R | REVIEW STATUS : | APPROVED |
| NBI STATUS : | T | RECORD TYPE : | ROUTE CARRIED 'ON' STRUCT | RUN DATE : | 10/16/2025 |
| SUBMITTAL YEAR : | 2025 | | | | |

### LOAD RATING AND POSTING INFORMATION

| | | |
|---|---|---|
| 31 | Design Load | H 15 |
| 41 | Structure Status | OPEN NO RESTRICTIONS |
| 63 | Oper. Rating Meth. | ALLOWABLE STRESS |
| 64 | Operating Rating | 94 Tons. |
| 65 | Inventory Rating Meth | ALLOWABLE STRESS |
| 66 | Inventory Rating | 87 Tons. |
| 70 | Bridge Posting Code | =>LEGAL LOADS |

### PROPOSED IMPROVEMENT INFORMATION

| | | |
|---|---|---|
| | Sufficiency Rating | 63.7 Percent |
| | Deficiency Rating | FUNCTIONAL |
| | Funding Eligibility | PARTIAL |
| 75A | Proposed Work | REHAB-GENERAL DETERIORAT |
| 75B | Work Done By | Contract |
| 76 | New Struc Length | 75 Ft. 6 In. |
| 94 | Struc Improve Cost | $ 296,000 |
| 95 | Roadway Improve Cost | $ 30,000 |
| 96 | Total Project Cost | $ 444,000 |
| 97 | Year of Cost Estimates | 2025 |

### APPRAISAL RATING INFORMATION

| | | |
|---|---|---|
| 36A | Br. Rail App. Rating | MEETS ACCEPTBLE STND |
| 36B | Transition Rail App. Rating | MEETS ACCEPTBLE STND |
| 36C | Approach Rail App. Rating | MEETS ACCEPTBLE STND |
| 36D | Rail End Treat. App. Rating | MEETS ACCEPTBLE STND |
| 67 | Struc Eval App. Rating | 5 |
| 68 | Deck Geometry App. Rating | 3 |
| 69 | Underclearance App. Rating | N |
| 71 | Waterway Adeq. App. Rating | 8 |
| 72 | Approach Road App. Rating | 4 |
| 113 | Scour Assess App. Rating | 8 |

### MATERIAL/CONSTRUCTION INFORMATION

| | | |
|---|---|---|
| 43A | Main Struc. Mat type | CONCRETE |
| 43B | Main struc Constr. Type | ARCH - DECK |
| 45 | # of Main Spans | 1 |
| 44A | Appr Struc. Mat type | 000 |
| 44B | Appr Struc. Cnstr. type | 000 |
| 46 | # of Approach Span | 0 |
| 107 | Deck Mat/Constr. | 1 CONCRETE CIP |
| 108A | Wear Surf Mat/Constr. | 6 BITUMINOUS |
| 108B | Membrane Mat/Constr. | 1 BUILT UP |
| 108C | Deck Protect Mat/Constr. | 0 NONE |

### CONDITION RATING INFORMATION

| | | |
|---|---|---|
| 58 | Deck Cond. Rating | 6 |
| 59 | Superstructure Cond. Rating | 5 |
| 60 | Substructure Cond. Rating | 6 |
| 61 | Channel /Channel Protection Cond. Rating | 6 |
| 62 | Culvert Cond. Rating | N |

### INSPECTION INFORMATION

| | | | |
|---|---|---|---|
| 90 | Gen. Insp Date | 10 / 25 | |
| 91 | Gen. Insp. Frequency | 24 | Months |
| 92A | Frac. Critical Inspection | N | Months |
| 93A | Frac. Critical Insp. Date | | |
| 92B | Underwater Inspection | N | Months |
| 93B | Underwater Insp. Date | | |
| 92C | Special Inspection | N | Months |
| 93C | Special Inspection Date | | |

### BORDER BRIDGE INFORMATION

| | |
|---|---|
| 98 | Neighboring State Code |
| 98B | Neighboring State % Respon |
| 99 | Neighboring State Struc. No. |

### APPROVED POSTING INFORMATION

Approved Posting Category S-1

| | Ton1 | Ton2 | Ton3 |
|---|---|---|---|
| Tonnage Values for Posting Sign | | | |

General Text for Posting Sign

NO POSTING REQUIRED

### FIELD POSTING INFORMATION

Field Posting Category S-1

| | Ton1 | Ton2 | Ton3 |
|---|---|---|---|
| Tonnage Values for Posting Sign | | | |

General Text for Posting Sign

NO POSTING REQUIRED

Design_No = g0269 and Inventory_Appraisal_Submittal_Year = 2025



*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.*

Bridge Number: G0270R

Route/County: 32/Iron

## Asbestos-Containing Material Present?

Yes: [ ] No: [X]

If yes, see report for location(s).

## Structural Steel Present?

Yes: [X] 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: [X]

Galvanized

### Pile LBP?

Yes: [ ] No: [ ]

# MEMORANDUM

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

**TO:** TMS

**FROM:** Leonard Vader
Environmental Chemist

**DATE:** June 1, 2017

**SUBJECT:** Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route 32
Bridge G-0270R
Iron 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) 751-1046.

rm/lv/db
http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared documents/asbestos/districts/southeast (se)/mt/g0270r/g0270r asbestos cover letter.docx
Attachments

Form T746
Rev. 08/2012



**MISSOURI DEPARTMENT OF TRANSPORTATION**
**CONSTRUCTION AND MATERIALS**
**Asbestos Survey Report**
**All Suspect ACM**

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **SURVEYED BY:** | Robert Marshall and Leonard Vader |
| **MODOT JOB NO:** | N/A | **CERTIFICATION #:** | 7020102616MOII18860, R.M. |
| **DISTRICT:** | SE | **CERTIFICATION #:** | 7020102516MOIR2672, L.V. |
| **COUNTY:** | Iron | **SITE ADDRESS:** | Over Richardson Creek |
| **DATE OF SURVEY:** | April 17, 2017 | **TYPE(S) OF STRUCTURE(S):** | Bridge |
| **PARCEL NO.:** | Bridge G-0270R | | |

| Sample ID | Type of Materials | Location of Material | Friability Category | Field Measure |
|---|---|---|---|---|
| 17MLAV 061 | Asphalt Felt Material | 2-Abutments | N-ACM | |
| | | | | |
| | Bridge Paint is not a suspect ACM per MSDS's on file. | | | |
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N-ACM = Non-Asbestos Containing Material  I NF = Category I Nonfriable  II NF = Category II Nonfriable  F = Friable
NAFD = No Asbestos Fiber Detected  * = Tested By Point Count Procedure

Form T747
Rev. 08/2012



**MISSOURI DEPARTMENT OF TRANSPORTATION**
**CONSTRUCTION AND MATERIALS**
**Asbestos Survey Report**
**Nonfriable Asbestos-Containing Materials**
**(Abatement not required if not made friable during demolition.)**

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **TESTED BY:** | Leonard Vader LV |
| **MODOT JOB NO.:** | N/A | **CERTIFICATION #:** | 7020102516MOIR2672 |
| **DISTRICT:** | SE | **SITE ADDRESS:** | Over Richardson Creek |
| **COUNTY:** | Iron | **TYPE(S) OF STRUCTURE(S):** | Bridge |
| **DATE OF TESTS:** | May 18, 2017 | | |
| **PARCEL NO.:** | Bridge G-0270R | | |

| Sample ID | Type of Material | Location of Material | Friability Category | Field Measure | Asbestos Type | Percent |
|---|---|---|---|---|---|---|
| | | None Located | I NF | | | |
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**All necessary work to handle this material is the contractor's responsibility.**

I NF = Category I Nonfriable

Form T748
Rev. 08/2012



**MISSOURI DEPARTMENT OF TRANSPORTATION**
**CONSTRUCTION AND MATERIALS**
**Asbestos Survey Report**
**All materials requiring removal or special handling.**

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **TESTED BY:** | Leonard Vader LV |
| **MODOT JOB NO.:** | N/A | **CERTIFICATION #:** | 7020102516MOIR2672 |
| **DISTRICT:** | SE | **SITE ADDRESS:** | Over Richardson Creek |
| **COUNTY:** | Iron | **TYPE(S) OF STRUCTURE(S):** | Bridge |
| **DATE OF TESTS:** | May 18, 2017 | | |
| **PARCEL NO.:** | Bridge G-0270R | | |

| Bid Item No. | Sample ID | Type of Material | Location of Material | Friability Category | Field Measure | Asbestos Type | Percent |
|---|---|---|---|---|---|---|---|
| | | | None Located | II NF | | | |
| | | | None Located | F | | | |

I NF = Category I Nonfriable  II NF = Category II Nonfriable  F = Friable  * = Tested By Point Count Procedure

Form C760
Rev. 08/2012



**MISSOURI DEPARTMENT OF TRANSPORTATION**
**CONSTRUCTION AND MATERIALS**
**Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes**

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **TESTED BY:** | N/A |
| **MODOT JOB NO.:** | N/A | **DATE OF TESTS:** | N/A |
| **DISTRICT:** | SE | **PARCEL NO.:** | Bridge G-0270R |
| **COUNTY:** | Iron | **SITE ADDRESS:** | Over Richardson Creek |
| **SURVEYED BY:** | Robert Marshall RM | **TYPE(S) OF STRUCTURE(S):** | Bridge |
| **DATE OF SURVEY:** | April 17, 2017 | | |

| Sample ID | Color/Location of Material/Substrate | Metals (ppm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | As | Cr | Pb | Cd | Se | Ba | Hg | Ag |
| | No samples taken. No painted surfaces located. | | | | | | | | |
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All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050
b = USEPA SW-846 Method 7471

Bridge Number: G0270R

Route/County: 32/Iron

## 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: ☒

Galvanized

### Pile LBP?

Yes: ☐ No: ☐

# MEMORANDUM

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

**TO:** TMS

**FROM:** Diane Roegge DR
Environmental Chemist

**DATE:** December 31, 2015

**SUBJECT:** Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route 32
Bridge G-0270R
Iron 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://sharepoint/systemdelivery/cm/chemicallab/environmental/shared documents/asbestos/districts/southeast (se)/mt/g0270r/dr1512319.docx
Attachments

Form T746
Rev. 04/2003



# MISSOURI DEPARTMENT OF TRANSPORTATION
## CONSTRUCTION AND MATERIALS
### Asbestos Survey Report
### All Suspect ACM

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **SURVEYED BY:** | Frank Reichart & Diane Roegge |
| **MODOT JOB NO.:** | J9P0592 | **CERTIFICATION #:** | 7028012508MOIR11239, F.R. |
| **DISTRICT:** | 9 | **CERTIFICATION #:** | 7028012508MOIR7165, D.R. |
| **COUNTY:** | Iron | **SITE ADDRESS:** | Over Cedar Creek, 2.8 miles West of Rt 21 |
| **DATE OF SURVEY:** | May 20, 2008 | **TYPE OF STRUCTURE:** | Bridge |
| **PARCEL NO.:** | Bridge G-0270R | | |

| Sample ID | Type of Materials | Location of Material | Friability Category | Field Measure |
|---|---|---|---|---|
| | No samples taken. No suspect ACM located. | | | |
| | | | | |
| | Bridge Paint is not a suspect ACM per MSDS's on file. | | | |
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N-ACM = Non-Asbestos Containing Material  I NF = Category I Nonfriable  II NF = Category II Nonfriable  F = Friable
NAFD = No Asbestos Fiber Detected  * = Tested By Point Count Procedure

Form T747
Rev. 12/2005



# MISSOURI DEPARTMENT OF TRANSPORTATION
## CONSTRUCTION AND MATERIALS
### Asbestos Survey Report
### Nonfriable Asbestos-Containing Materials
**(Abatement not required if not made friable during demolition.)**

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **TESTED BY:** | Frank Reichart and Diane Roegge |
| **MODOT JOB NO.:** | J9P0592 | **CERTIFICATION #:** | 7028012508MOIR11239, F.R. |
| **DISTRICT:** | 9 | **CERTIFICATION #:** | 7028012508MOIR7165, D.R. |
| **COUNTY:** | Iron | **SITE ADDRESS:** | Over Cedar Creek, 2.8 miles West of Rt 21 |
| **DATE OF TESTS:** | N/A | **TYPE OF STRUCTURE:** | Bridge |
| **PARCEL NO.:** | Bridge G-0270R | | |

| Sample ID | Type of Material | Location of Material | Friability Category | Field Measure | Asbestos Type | Percent |
|---|---|---|---|---|---|---|
| | | None Located | I NF | | | |
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**All necessary work to handle this material is the contractor's responsibility.**

I NF = Category I Nonfriable

Form T748
Rev. 04/2003



# MISSOURI DEPARTMENT OF TRANSPORTATION
## CONSTRUCTION AND MATERIALS
### Asbestos Survey Report
**All materials requiring removal or special handling.**

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **TESTED BY:** | Frank Reichart and Diane Roegge |
| **MODOT JOB NO.:** | J9P0592 | **CERTIFICATION #:** | 7028012508MOIR11239, F.R. |
| **DISTRICT:** | 9 | **CERTIFICATION #:** | 7028012508MOIR7165, D.R. |
| **COUNTY:** | Iron | **SITE ADDRESS:** | Over Cedar Creek, 2.8 miles West of Rt 21 |
| **DATE OF TESTS:** | N/A | **TYPE OF STRUCTURE:** | Bridge |
| **PARCEL NO.:** | Bridge G-0270R | | |

| Bid Item No. | Sample ID | Type of Material | Location of Material | Friability Category | Field Measure | Asbestos Type | Percent |
|---|---|---|---|---|---|---|---|
| | | | None Located | F | | | |
| | | | None Located | II NF | | | |

I NF = Category I Nonfriable  II NF = Category II Nonfriable  F = Friable  * = Tested By Point Count Procedure

Form C760
Rev. 04/2003



# MISSOURI DEPARTMENT OF TRANSPORTATION
## CONSTRUCTION AND MATERIALS
### Metals Survey Report of Painted Concrete, Block, Brick and Surfaces

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **TESTED BY:** | N/A |
| **MODOT JOB NO.:** | J9P0592 | **DATE OF TESTS:** | N/A |
| **DISTRICT:** | 9 | **PARCEL NO.:** | Bridge G-0270R |
| **COUNTY:** | Iron | **SITE ADDRESS:** | Over Cedar Creek, 2.8 miles West of Rt 21 |
| **SURVEYED BY:** | Frank Reichart | **TYPE OF STRUCTURE:** | Bridge |
| **DATE OF SURVEY:** | May 20, 2008 | | |

| Sample ID | Color/Location of Material/Substrate | Metals (ppm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | As | Cr | Pb | Cd | Se | Ba | Hg | Ag |
| | No samples taken. No painted surfaces located. | | | | | | | | |
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All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050
b = USEPA SW-846 Method 7471

# Missouri Department of Transportation
## State Bridge Inspection Report

November 06, 2025
3:12:17PM

**COUNTY: IRON** **DISTRICT: SE** **CLASS: STATBR** **FED-ID: 4575** **BRIDGE: G0270**

### ***GENERAL STRUCTURE INFORMATION***

| | | | | | |
|---|---|---|---|---|---|
| **ROUTE:** | MO32E | **# SPANS:** | 1 | **PLACE CODE:** | 35360 IRON |
| **FEATURE:** | RICHARDSON CR | **LANES ON:** | 2 | **LENGTH:** | 22 FT 0 IN |
| **STATUS:** | P-POSTLOAD | **LANES UNDER:** | 0 | **MAXIMUM SPAN:** | 20 FT 0 IN |
| **LOG MILE:** | 223.459 | **COMPASS DIRECTION:** | EAST to WEST | **APPROACH ROADWAY:** | 22 FT 0 IN |
| **DETOUR:** | 40.00 MILES | **DIRECTION OF TRAFFIC:** | 2-WAY TRAF | **CURB TO CURB:** | 20 FT 4 IN |
| **NHS:** | NO | **FUNCTIONAL CLASS:** | RL-MINOR ARTERIAL | **OUT TO OUT:** | 21 FT 0 IN |
| **BUILT:** | 1922 | **NBI OWNER:** | MODOT | **AADT:** | 860 |
| **REHAB:** | | **NBI MAINTAINED:** | MODOT | **AADT YEAR:** | 2024 |
| **LOCATION:** | S 218 T 35 R 2 E | **MAINTENANCE DISTRICT:** | SE | **AADT TRUCK:** | 23.7% |
| **LATITUDE:** | 37 42 24.35 (DMS) | **MAINTENANCE COUNTY:** | IRON | **FUTURE AADT:** | 1290 |
| **LONGITUDE:** | 90 47 50.79 (DMS) | **SUB AREA:** | 7H05 | **FUTURE AADT YEAR:** | 2044 |

### ***BRIDGE INSPECTION INFORMATION***

**DATE:** 10/01/2025 **RESPONSIBILITY:** DISTRICT
**FREQUENCY:** 24 **CALCULATED INTERVAL**:** 24
**TEAM LEADER:** JERROD JERNIGAN **ELEMENT:** NO
**INSPECTOR 2:** **INSPECTOR 4:**
**INSPECTOR 3:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

#### *GENERAL INSPECTION COMMENTS*

### ***FRACTURE CRITICAL INSPECTION INFORMATION***

**DATE:** **RESPONSIBILITY:** **CATEGORY:**
**FREQUENCY:** **CALCULATED INTERVAL**:** **NBI:**
**TEAM LEADER:** **INSPECTOR 3:** **METHOD:**
**INSPECTOR 2:** **INSPECTOR 4:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

#### *FRACTURE CRITICAL INSPECTION COMMENTS*

### ***INDEPTH INSPECTION INFORMATION***

**DATE:** **RESPONSIBILITY:** **CATEGORY:**
**FREQUENCY:** **CALCULATED INTERVAL**:** **NBI:**
**TEAM LEADER:** **INSPECTOR 3:** **METHOD:**
**INSPECTOR 2:** **INSPECTOR 4:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

#### *INDEPTH INSPECTION COMMENTS*

### ***SPECIAL INSPECTION INFORMATION***

**DATE:** 01/13/2022 **RESPONSIBILITY:** BRIDGEDIV **CATEGORY:** QUALITY ASSURANCE
**FREQUENCY:** 999 **CALCULATED INTERVAL**:** **NBI:** NO
**TEAM LEADER:** CHAD DANIEL **INSPECTOR 3:** **METHOD:** VISUAL
**INSPECTOR 2:** JESSE ELSEMAN **INSPECTOR 4:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

#### *SPECIAL INSPECTION COMMENTS*

(ELSEMJ, 01/20/2022)--USING THE FIELD VERIFICATION MODEL (FVM) - AS A THIRD PARTY INSPECTOR, I TOOK THE PREVIOUS INSP REPORT INTO THE FIELD AND VERIFIED THOROUGHNESS OF REPORT WITH ASSIGNED CONDITION AND APPRAISAL RATINGS

### ***UNDERWATER INSPECTION INFORMATION***

**DATE:** 10/01/2025 **RESPONSIBILITY:** DISTRICT **CATEGORY:** DRY
**FREQUENCY:** 60 **CALCULATED INTERVAL**:** 24 **NBI:** NO
**TEAM LEADER:** JERROD JERNIGAN **INSPECTOR 3:** **METHOD:** VISUAL
**INSPECTOR 2:** **INSPECTOR 4:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

#### *UNDERWATER INSPECTION COMMENTS*

### OTHER SPECIAL INSPECTIONS

| DATE | FREQUENCY | CATEGORY | NBI | CALCULATED INTERVAL | RESPONSIBILITY | METHOD |
|---|---|---|---|---|---|---|
| 08/17/2020 | 72 | CHANNEL CROSS SECTIONS | NO | 73 | DISTRICT | WT TAPE |

### OTHER UNDERWATER INSPECTIONS

| DATE | FREQUENCY | CATEGORY | NBI | CALCULATED INTERVAL | RESPONSIBILITY | METHOD |
|---|---|---|---|---|---|---|



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**COUNTY: IRON** **DISTRICT: SE** **CLASS: STATBR** **FED-ID: 4575** **BRIDGE: G0270**

## ***STRUCTURE POSTING***

**APPROVED CATEGORY:** S-16 TRKS OVR 14 TNS 15MPH ON BR EXCPT SNGLE UNIT TRKS WT LIMIT 19 TNS&ALL OTHR TRKS WT LIMIT 34 TNS.
**Ton 1:** 14 **Ton 2:** 19 **Ton 3:** 34
**COMMENTS:**

**FIELD CATEGORY:** S-16 TRKS OVR 14 TNS 15MPH ON BR EXCPT SNGLE UNIT TRKS WT LIMIT 19 TNS&ALL OTHR TRKS
**Ton 1:** 14 **Ton 2:** 19 **Ton 3:** 34 **PROBLEM:** **PROBLEM DIRECTION:**
**COMMENTS:**

## ***GENERAL COMMENTS/MAJOR RATED ITEMS***

**GENERAL COMMENTS:** (STOTLS, 03/18/2016)--(20') CONC SOLID SLAB SPAN (FRP APPLIED TO BOTTOM OF DECK FOR STRENGTHENING)

**[ITEM 58] DECK:** 5-FAIR CONDITION
**RATING :** 12/22/2009
**COMMENTS:** (DENNIB1, 10/28/2013)--DETERIORATION & DELAMINATION
(ELSEMJ, 01/20/2022)--FEW SPALLS W/ EXPOSED REBAR

**[ITEM 59] SUPER:** 4-POOR CONDITION
**RATING :** 10/26/2023
**COMMENTS:** (DENNIB1, 10/28/2013)--SAME AS DECK
(BRAWLK1, 10/26/2023)--SPALLS & EXPOSED REBAR

**[ITEM 60] SUB:** 4-POOR CONDITION
**RATING :** 10/26/2023
**COMMENTS:** (ELSEMJ, 01/20/2022)--EXPOSED FOOTING W/ MINOR UNDERMINING

**[ITEM 61] BANK/CHANNEL:** 5-MAJOR DAMAGE
**RATING :** 05/18/2001
**COMMENTS:** (ELSEMJ, 01/20/2022)--POOR CHANNEL ALIGNMENT

**[ITEM 113] SCOUR:** 8-STABLE FOR CALCULATED
**RATING :** 05/18/2001
**EVALUATION TYPE :**
**COMMENTS:** (ELSEMJ, 01/20/2022)--MINOR UNDERMINING OF EXPOSED FOOTING

**[ITEM 71] WATERWAY ADEQUACY:** DECK/APPRCH OVERTOP SLIGT
**RATING :** 05/18/2001
**COMMENTS:**

**[ITEM 72] APPRRDWY ALIGNMENT:** 6-SATISFACTORY
**RATING :** 05/18/2001
**COMMENTS:**

## ***RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS***

***[ITEM 36A] BRIDGE RAILING RATING:*** *MEETS CURRENT STANDARDS-1* ***RATING :*** *05/18/2001* ***COMMENTS:***

| MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|
| GALVANIZED STEEL | THRIE BEAM | BOTH | |

***[ITEM 36B] TRANSITION RAILING RATING:*** *MEETS CURRENT STANDARDS-1* ***RATING :*** *10/19/2021* ***COMMENTS:***

| MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|
| GALVANIZED STEEL | THRIE BEAM TO W-BEAM | ALL | |

***[ITEM 36C] APPROACH RAILING RATING:*** *MEETS CURRENT STANDARDS-1* ***RATING :*** *10/19/2021* ***COMMENTS:***

| MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|
| GALVANIZED STEEL | W-BEAM | ALL | |

***[ITEM 36D] RAIL END TREATMENT RATING:*** *MEETS CURRENT STANDARDS-1* ***RATING :*** *10/19/2021* ***COMMENTS:***


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| MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|
| GALVANIZED STEEL | BREKAWAY SYSTEM | ALL | |

**APPROACH PAVEMENT:** *Overall condition assigned for each approach pavemenet component is shown below.

| MATERIAL | CONSTRUCTION | DIRECTION | CONDITION* | COMMENTS |
|---|---|---|---|---|
| ASPHALT | BITUMINOUS MAT | BOTH | GOOD | |

## ***DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS***

***DECK PROTECTIVE COMPONENTS:***

| SERIES TYPE-# | COMPONENT | MATERIAL | CONSTRUCTION | THICKNESS | YEAR APPLIED | MANUFACTURE | OVERALL CONDITION |
|---|---|---|---|---|---|---|---|
| *MAIN SERIES-1* | *WEARING SURFACE* | *ASPHALT* | *BITUMINOUS MAT* | *7 IN* | *2019* | | *GOOD* |
| ***COMMENT:*** | | | | | | | |
| | *DECK PROTECTION* | *NOTAPPLICABLE* | *NONE* | | | | |
| ***COMMENT:*** | | | | | | | |
| | *MEMBRANE* | *LIQUID SEALANT* | *BUILT-UP* | | | | |
| ***COMMENT:*** | | | | | | | |

***DRAINAGE COMPONENTS:***

| COMPONENT | MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|---|

***EXPANSION DEVICE COMPONENTS:***

| SUB UNIT-# | SUB LABEL | COMPONENT | MATERIAL | CONSTRUCTION | GAP | YEAR APPLIED | MANUFACTURE | OVERALL CONDITION |
|---|---|---|---|---|---|---|---|---|
| ***COMMENT:*** | | | | | | | | |

***BANK/SLOPE PROTECTION COMPONENTS:***

| COMPONENT | MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|---|
| *BANK PROTECTION* | *EARTH FILL* | *BERM* | *BOTH* | |

## ***DECK COMPONENTS***

| SPAN TYPE-# | COMPONENT | MATERIAL | CONSTRUCTION | COMMENTS |
|---|---|---|---|---|
| *MAIN SPANS-1* | *DECK* | *REINFORCED CONCRETE* | *CAST-IN-PLACE* | *(WILSOJ, 03/22/2003)--FIBER WRAP UNDERSIDE OF DECK* |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| DELAMINATION | BOTTOM | | MODERATE | | |
| DELAMINATION | RANDOM | | LARGE | | |
| DETERIORATION | EDGE | | SEVERE | | |
| FLEXURE CRACKS | BOTTOM | | SMALL | | |
| REBAR EXPOSED | EDGE | | MODERATE | | |
| SATURATION | THROUGHOUT | | MINOR | 10 % | |

## ***SUPERSTRUCTURE COMPONENTS***

| SERIES TYPE-# | SPAN TYPE | MATERIAL | CONSTRUCTION | LABEL | COMMENTS |
|---|---|---|---|---|---|
| *MAIN SERIES-1* | *SIMPLE SPAN* | *REINFORCED CONCRETE* | *SOLID SLAB* | | |

| SPAN | COMPOSITE INDICATOR | LENGTH | WEATHERING STEEL | COMMENTS |
|---|---|---|---|---|


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MAIN SPANS-1 NON-COMPOSITE 20 FT 0 IN NO

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|

## ***SUBSTRUCTURE COMPONENTS***

| SUBSTRUCTURE | SKEW | LENGTH | MATERIAL | CONSTRUCTION | LABEL | COMMENTS |
|---|---|---|---|---|---|---|
| *ABUTMENT-1* | | *21 FT 0 IN* | *REINFORCED CONCRETE* | *CANTILEVER* | | |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|

| ASSOCIATED COMPONENT | MATERIAL | CONSTRUCTION |
|---|---|---|
| FLARED WINGS | REINFORCED CONCRETE | CAST-IN-PLACE |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| FOOTING | REINFORCED CONCRETE | SPREAD | | | |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| EXPOSED | GROUND LINE | | MINOR | | |
| WALL | REINFORCED CONCRETE | CAST-IN-PLACE | | | |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| HORIZONTAL CRACKS | THROUGHOUT | | MEDIUM | | |
| VERTICAL CRACKS | RANDOM | | OPEN | | |

| | | | | | |
|---|---|---|---|---|---|
| *ABUTMENT-2* | | *21 FT 0 IN* | *REINFORCED CONCRETE* | *CANTILEVER* | |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|

| ASSOCIATED COMPONENT | MATERIAL | CONSTRUCTION |
|---|---|---|
| FLARED WINGS | REINFORCED CONCRETE | CAST-IN-PLACE |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| FOOTING | REINFORCED CONCRETE | SPREAD | | | |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| EXPOSED | BOTTOM | | FULL | | |
| UNDERMINING | BOTTOM | | MINOR | | |
| WALL | REINFORCED CONCRETE | CAST-IN-PLACE | | | |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| SCALING | THROUGHOUT | | HEAVY | | |
| VERTICAL CRACKS | RANDOM | | LARGE | | |

## ***OVER/UNDER ROUTES CLEARANCE INFORMATION***

***CLEARANCES OVER DECK***

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

| VERTICAL CLEARANCE TYPE** | VALUE | DIRECTION | DATE | COMMENT |
|---|---|---|---|---|



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***CLEARANCES UNDER BRIDGE***

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

| RECORD # | ROUTE | # LANES | DIRECTION OF TRAFFIC | RIGHT LATERAL CLEARANCE | LEFT LATERAL CLEARANCE | UR-ID |
|---|---|---|---|---|---|---|

| VERTICAL CLEARANCE TYPE** | VALUE | DIRECTION | DATE | COMMENT |
|---|---|---|---|---|

## ***STRUCTURE PAINT INFORMATION***

CONDITION: RUST AMOUNT : STEEL TONS : 0

| ORIGINAL PAINT | CONTRACT REPAINT | DEPARTMENT REPAINT | |
|---|---|---|---|
| PAINT TYPE : | PAINT TYPE : | PAINT TYPE : | MANUFACTURE : |
| NAME : | NAME : | NAME : | SURFACE PREP : |
| PAINT COLOR : | PAINT COLOR : | PAINT COLOR : | |
| PAINT YEAR : | PAINT YEAR : | PAINT YEAR : | |
| MILS : | MILS : | MILS : | |

## ***REQUESTED WORK ITEMS***

GENERAL WORK COMMENTS:

| *RESPONSIBILITY* | *LOCATION* | *ITEM* | *CATEGORY* | *PRIORITY* | *DATE* | *WORK ITEM COMMENT* |
|---|---|---|---|---|---|---|

## ***UTILITY ATTACHMENTS***

| *UTILITY* | *OWNER* | *METHOD* | *MEASUREMENT TYPE* | *VALUE* | *NUMBER* | *UTILITY ATTACHMENT COMMENT* |
|---|---|---|---|---|---|---|

## ***PROGRAM NOTES INFORMATION***

| YEAR | PROJECT # | MONTH LET | YEAR LET | ITEMS | COMMENT |
|---|---|---|---|---|---|
| 2027 | SE0039 | 1 | 2027 | REPLACE BRIDGE | |

Design_No = G0270



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## ***COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS***

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.

| Rated Item | Rating | Rating Date |
|---|---|---|
| **[Item 67] Structure Evaluation Rating:** | 2-BASICALLY INTOLRBLE REQ | 7/16/2025 |
| **[Item 68] Deck Geometry Rating:** | 3-BASICALLY INTOL CORRECT | 5/12/2021 |
| **[Item 69] Underclearance:** | N-NOT APPLICABLE | 5/18/2001 |
| **Sufficiency Rating:** | 6.0% | 7/16/2025 |
| **Deficiency:** | STRUCTURAL | 7/16/2025 |
| **Funding Eligibility:** | FULL | ---- |
| **Estimated New Structure Length:** | 43 FT. | ---- |
| **Estimated Structure Cost:** | $249,357 | ---- |
| **Estimated Total Project Cost:** | $374,036 | ---- |
| **Year of Cost Estimate:** | 2025 | ---- |

NOTE: The above structure length and cost estimates are computer generated using algorithims in the TMS system. These algorthims 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.

## ***ADVANCED SIGN INFORMATION***

| SIGN # | SIGN TYPE | PROBLEM | PROBLEM DIRECTION |
|---|---|---|---|
| 1 | | | |

## ***OUTFALL INSPECTION INFORMATION***

**# OUTFALLS:** **INSPECTOR:**
**STATUS:** **DATE:**
**NOTES:**



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

November 6, 2025
3:10:00pm

| | | | | | |
|---|---|---|---|---|---|
| COUNTY : | IRON | BRIDGE : | G0270 R | REVIEW STATUS : | APPROVED |
| NBI STATUS : | T | RECORD TYPE : | ROUTE CARRIED 'ON' STRUCT | RUN DATE : | 10/16/2025 |
| SUBMITTAL YEAR : | 2025 | | | | |

### GENERAL STRUCTURE INFORMATION

| | | |
|---|---|---|
| 1 | State | MISSOURI |
| 2 | District | SE |
| 3 | County | IRON |
| 8 | Federal ID No. | 4575 |
| 27 | Year Built | 1922 |
| 106 | Year Reconstructed | 0 |
| 42A | Type of Service On | HIGHWAY |
| 21 | Structure Maintenance | STATE HIGHWAY AGENCY |
| 22 | Structure Owner | STATE HIGHWAY AGENCY |
| 33 | Br. Median Code | NO MEDIAN |
| 37 | Historical Significance | HISTORICAL SIGNIF UNKNWN |
| 101 | Parallel Struc Desg | NONE EXISTS |
| 103 | Temporary Structure | NOT TEMPORARY |
| 112 | NBIS Bridge Length | YES |

### ROUTE DESIGNATION INFORMATION

| | | |
|---|---|---|
| 5A | Record Type | ROUTE CARRIED 'ON' STRUCT |
| 5B | Route Signing Prefix | MO |
| 5C | Designated Level of Service | MAINLINE |
| 5D | Route Number | 00032 |
| 5E | Directional Suffix | NOT APPLICABLE |
| 7 | Facility Carried | MO 32 E |
| 12 | Base Hwy. Network | YES |
| 13A | LRS Inventory Route No. | 0000001056 |
| 13B | Subroute No. | 00 |
| 20 | Toll Status | ON FREE ROAD |
| 26 | Functional Classification | 06-RURAL MINOR ARTERIAL |
| 28A | Lanes on Structure | 02 |
| 100 | STRAHNET Designation | RTE NOT A DEFENSE HWY |
| 104 | National Highway System | NOT ON NHS |
| 105 | Federal Lands Highway | NOT APPLICABLE |
| 110 | Designated Nat. Network | YES |

### STRUCTURE LOCATION INFORMATION

| | | |
|---|---|---|
| 4 | Place | IRON |
| | Code | 35360 |
| 9 | Location | S 218 T 35 N R 2 E |
| 11 | Milepoint | 224.76 miles |
| 16 | Latitude | 37 D 42 M 24 S |
| 17 | Longitude | 90 D 47 M 51 S |

### STRUCTURE TRAFFIC INFORMATION

| | | |
|---|---|---|
| 29 | AADT | 860 |
| 30 | AADT Year | 2024 |
| 102 | Direction of Traffic | 2-WAY TRAFFIC |
| 109 | AADT Truck Percent | 24% |
| 114 | Future AADT | 1290 |
| 115 | Future AADT Year | 2044 |

### UNDERRECORD INFORMATION

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

### STRUCTURE GEOMETRIC INFORMATION

| | | |
|---|---|---|
| 10 | Inventory Rte. Vert. Clear | 99 Ft. 99 In. |
| 19 | By pass Detour Length | 40.00 miles |
| 32 | Approach Roadway Width | 21 Ft. 12 In. |
| 34 | Skew | 0.00 Degrees |
| 35 | Struct. Flared | NO |
| 47 | Total Horiz. Clear | 20 Ft. 4 In. |
| 48 | Maximum Span Length | 20 Ft. 0 In. |
| 49 | Structure Length | 22 Ft. 8 In. |
| 50A | Left Curb/Sidewalk Width | 0 Ft. 0 In. |
| 50B | Right Curb/Sidewalk Width | 0 Ft. 0 In. |
| 51 | Curb to Curb Br. Width | 20 Ft. 4 In. |
| 52 | Deck Width (Out-Out) | 20 Ft. 12 In. |
| 53 | Vert.Clearance Over Deck | 99 Ft. 99 In. |

Design_No = g0270 and Inventory_Appraisal_Submittal_Year = 2025



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

November 6, 2025
3:10:00pm

| | | | | | |
|---|---|---|---|---|---|
| COUNTY : | IRON | BRIDGE : | G0270 R | REVIEW STATUS : | APPROVED |
| NBI STATUS : | T | RECORD TYPE : | ROUTE CARRIED 'ON' STRUCT | RUN DATE : | 10/16/2025 |
| SUBMITTAL YEAR : | 2025 | | | | |

### LOAD RATING AND POSTING INFORMATION

| | | |
|---|---|---|
| 31 | Design Load | H 15 |
| 41 | Structure Status | POSTED FOR LOAD |
| 63 | Oper. Rating Meth. | ALLOWABLE STRESS |
| 64 | Operating Rating | 27 Tons. |
| 65 | Inventory Rating Meth | ALLOWABLE STRESS |
| 66 | Inventory Rating | 9 Tons. |
| 70 | Bridge Posting Code | 30.0-39.9% BELOW |

### PROPOSED IMPROVEMENT INFORMATION

| | | |
|---|---|---|
| | Sufficiency Rating | 6.0 Percent |
| | Deficiency Rating | STRUCTURAL |
| | Funding Eligibility | FULL |
| 75A | Proposed Work | REPLACEMENT SUBSTND LOAD |
| 75B | Work Done By | Contract |
| 76 | New Struc Length | 42 Ft. 8 In. |
| 94 | Struc Improve Cost | $ 249,000 |
| 95 | Roadway Improve Cost | $ 25,000 |
| 96 | Total Project Cost | $ 374,000 |
| 97 | Year of Cost Estimates | 2025 |

### APPRAISAL RATING INFORMATION

| | | |
|---|---|---|
| 36A | Br. Rail App. Rating | MEETS ACCEPTBLE STND |
| 36B | Transition Rail App. Rating | MEETS ACCEPTBLE STND |
| 36C | Approach Rail App. Rating | MEETS ACCEPTBLE STND |
| 36D | Rail End Treat. App. Rating | MEETS ACCEPTBLE STND |
| 67 | Struc Eval App. Rating | 2 |
| 68 | Deck Geometry App. Rating | 3 |
| 69 | Underclearance App. Rating | N |
| 71 | Waterway Adeq. App. Rating | 6 |
| 72 | Approach Road App. Rating | 6 |
| 113 | Scour Assess App. Rating | 8 |

### MATERIAL/CONSTRUCTION INFORMATION

| | | |
|---|---|---|
| 43A | Main Struc. Mat type | CONCRETE |
| 43B | Main struc Constr. Type | SLAB |
| 45 | # of Main Spans | 1 |
| 44A | Appr Struc. Mat type | 000 |
| 44B | Appr Struc. Cnstr. type | 000 |
| 46 | # of Approach Span | 0 |
| 107 | Deck Mat/Constr. | 1 CONCRETE CIP |
| 108A | Wear Surf Mat/Constr. | 6 BITUMINOUS |
| 108B | Membrane Mat/Constr. | 1 BUILT UP |
| 108C | Deck Protect Mat/Constr. | 0 NONE |

### CONDITION RATING INFORMATION

| | | |
|---|---|---|
| 58 | Deck Cond. Rating | 5 |
| 59 | Superstructure Cond. Rating | 4 |
| 60 | Substructure Cond. Rating | 4 |
| 61 | Channel /Channel Protection Cond. Rating | 5 |
| 62 | Culvert Cond. Rating | N |

### INSPECTION INFORMATION

| | | | |
|---|---|---|---|
| 90 | Gen. Insp Date | 10 / 25 | |
| 91 | Gen. Insp. Frequency | 24 | Months |
| 92A | Frac. Critical Inspection | N | Months |
| 93A | Frac. Critical Insp. Date | | |
| 92B | Underwater Inspection | N | Months |
| 93B | Underwater Insp. Date | | |
| 92C | Special Inspection | N | Months |
| 93C | Special Inspection Date | | |

### BORDER BRIDGE INFORMATION

| | |
|---|---|
| 98 | Neighboring State Code |
| 98B | Neighboring State % Respon |
| 99 | Neighboring State Struc. No. |

### APPROVED POSTING INFORMATION

Approved Posting Category S-16

| | Ton1 | Ton2 | Ton3 |
|---|---|---|---|
| Tonnage Values for Posting Sign | 14 | 19 | 34 |

General Text for Posting Sign

TRKS OVR 14 TNS 15MPH ON BR EXCPT SNGLE UNIT TRKS WT LIMIT 19 TNS&ALL OTHR TRKS WT LIMIT 34 TNS.

### FIELD POSTING INFORMATION

Field Posting Category S-16

| | Ton1 | Ton2 | Ton3 |
|---|---|---|---|
| Tonnage Values for Posting Sign | 14 | 19 | 34 |

General Text for Posting Sign

TRKS OVR 14 TNS 15MPH ON BR EXCPT SNGLE UNIT TRKS WT LIMIT 19 TNS&ALL OTHR TRKS WT LIMIT 34 TNS.

Design_No = g0270 and Inventory_Appraisal_Submittal_Year = 2025



*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.*

Bridge Number: 60272R

Route/County: 32/Iron

## 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: ☒

Galvanized

Pile LBP?

Yes: ☐ No: ☐

# MEMORANDUM

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

**TO:** TMS

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

**DATE:** January 25, 2016

**SUBJECT:** Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route 32
Bridge G-0272R
Iron 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/southeast (se)/mt/g0272r/dr16012512.docx
Attachments

Form T746
Rev. 04/2003



# MISSOURI DEPARTMENT OF TRANSPORTATION
## CONSTRUCTION AND MATERIALS
### Asbestos Survey Report
### All Suspect ACM

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **SURVEYED BY:** | Frank Reichart & Diane Roegge |
| **MODOT JOB NO.:** | J9P0592 | **CERTIFICATION #:** | 7028012508MOIR11239, F.R. |
| **DISTRICT:** | 9 | **CERTIFICATION #:** | 7028012508MOIR7165, D.R. |
| **COUNTY:** | Iron | **SITE ADDRESS:** | Over Keesling Creek, 1.8 miles West of State Road A |
| **DATE OF SURVEY:** | May 20, 2008 | **TYPE OF STRUCTURE:** | Bridge |
| **PARCEL NO.:** | Bridge G-0272R | | |

| Sample ID | Type of Materials | Location of Material | Friability Category | Field Measure |
|---|---|---|---|---|
| | No samples taken. No suspect ACM located. | | | |
| | | | | |
| | Bridge Paint is not a suspect ACM per MSDS's on file. | | | |
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N-ACM = Non-Asbestos Containing Material  I NF = Category I Nonfriable  II NF = Category II Nonfriable  F = Friable
NAFD = No Asbestos Fiber Detected  * = Tested By Point Count Procedure

Form T747
Rev. 12/2005



# MISSOURI DEPARTMENT OF TRANSPORTATION
## CONSTRUCTION AND MATERIALS
### Asbestos Survey Report
### Nonfriable Asbestos-Containing Materials
### (Abatement not required if not made friable during demolition.)

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **TESTED BY:** | Frank Reichart and Diane Roegge |
| **MODOT JOB NO.:** | J9P0592 | **CERTIFICATION #:** | 7028012508MOIR11239, F.R. |
| **DISTRICT:** | 9 | **CERTIFICATION #:** | 7028012508MOIR7165, D.R. |
| **COUNTY:** | Iron | **SITE ADDRESS:** | Over Keesling Creek, 1.8 miles West of State Road A |
| **DATE OF TESTS:** | N/A | **TYPE OF STRUCTURE:** | Bridge |
| **PARCEL NO.:** | Bridge G-0272R | | |

| Sample ID | Type of Material | Location of Material | Friability Category | Field Measure | Asbestos Type | Percent |
|---|---|---|---|---|---|---|
| | | None Located | I NF | | | |

**All necessary work to handle this material is the contractor's responsibility.**

I NF = Category I Nonfriable

Form T748
Rev. 04/2003



# MISSOURI DEPARTMENT OF TRANSPORTATION
## CONSTRUCTION AND MATERIALS
### Asbestos Survey Report
**All materials requiring removal or special handling.**

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **TESTED BY:** | Frank Reichart and Diane Roegge |
| **MODOT JOB NO.:** | J9P0592 | **CERTIFICATION #:** | 7028012508MOIR11239, F.R. |
| **DISTRICT:** | 9 | **CERTIFICATION #:** | 7028012508MOIR7165, D.R. |
| **COUNTY:** | Iron | **SITE ADDRESS:** | Over Keesling Creek, 1.8 miles West of State Road A |
| **DATE OF TESTS:** | N/A | **TYPE OF STRUCTURE:** | Bridge |
| **PARCEL NO.:** | Bridge G-0272R | | |

| Bid Item No. | Sample ID | Type of Material | Location of Material | Friability Category | Field Measure | Asbestos Type | Percent |
|---|---|---|---|---|---|---|---|
| | | | None Located | F | | | |
| | | | None Located | II NF | | | |

I NF = Category I Nonfriable  II NF = Category II Nonfriable  F = Friable  * = Tested By Point Count Procedure

Form C760
Rev. 04/2003



# MISSOURI DEPARTMENT OF TRANSPORTATION
## CONSTRUCTION AND MATERIALS
### Metals Survey Report of Painted Concrete, Block, Brick and Surfaces

| | | | |
|---|---|---|---|
| **ROUTE:** | 32 | **TESTED BY:** | N/A |
| **MODOT JOB NO.:** | J9P0592 | **DATE OF TESTS:** | N/A |
| **DISTRICT:** | 9 | **PARCEL NO.:** | Bridge G-0272R |
| **COUNTY:** | Iron | **SITE ADDRESS:** | Over Keesling Creek, 1.8 miles West of State Road A |
| **SURVEYED BY:** | Frank Reichart | **TYPE OF STRUCTURE:** | Bridge |
| **DATE OF SURVEY:** | May 20, 2008 | | |

| Sample ID | Color/Location of Material/Substrate | Metals (ppm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | As | Cr | Pb | Cd | Se | Ba | Hg | Ag |
| | No samples taken. No painted surfaces located. | | | | | | | | |
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All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050
b = USEPA SW-846 Method 7471

Expiration Date: **1/25/2009** Certificate Number: 7028012508MOIR11239

Training Date: **1/25/2008**

## 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.

3/14/2008
Date

James L. Kavanaugh
Director of Air Pollution Control Program

Expiration Date: **1/25/2009** Certificate Number: 7028012508MOIR7165

Training Date: **1/25/2008**

## 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.

3/14/2008
Date

James L. Kavanaugh
Director of Air Pollution Control Program

# Missouri Department of Transportation
## State Bridge Inspection Report

November 06, 2025
3:12:40PM

**COUNTY: IRON** **DISTRICT: SE** **CLASS: STATBR** **FED-ID: 4576** **BRIDGE: G0272**

### ***GENERAL STRUCTURE INFORMATION***

| | | | | | |
|---|---|---|---|---|---|
| **ROUTE:** | MO32E | **# SPANS:** | 1 | **PLACE CODE:** | 38018 KAOLIN |
| **FEATURE:** | KEESLING CR | **LANES ON:** | 2 | **LENGTH:** | 33 FT 0 IN |
| **STATUS:** | A-OPEN | **LANES UNDER:** | 0 | **MAXIMUM SPAN:** | 30 FT 0 IN |
| **LOG MILE:** | 221.053 | **COMPASS DIRECTION:** | EAST to WEST | **APPROACH ROADWAY:** | 22 FT 0 IN |
| **DETOUR:** | 40.00 MILES | **DIRECTION OF TRAFFIC:** | 2-WAY TRAF | **CURB TO CURB:** | 20 FT 4 IN |
| **NHS:** | NO | **FUNCTIONAL CLASS:** | RL-MINOR ARTERIAL | **OUT TO OUT:** | 21 FT 0 IN |
| **BUILT:** | 1922 | **NBI OWNER:** | MODOT | **AADT:** | 860 |
| **REHAB:** | | **NBI MAINTAINED:** | MODOT | **AADT YEAR:** | 2024 |
| **LOCATION:** | S 33 T 35 R 2 E | **MAINTENANCE DISTRICT:** | SE | **AADT TRUCK:** | 23.7% |
| **LATITUDE:** | 37 41 45.29 (DMS) | **MAINTENANCE COUNTY:** | IRON | **FUTURE AADT:** | 1290 |
| **LONGITUDE:** | 90 50 15.31 (DMS) | **SUB AREA:** | 7H05 | **FUTURE AADT YEAR:** | 2044 |

### ***BRIDGE INSPECTION INFORMATION***

**DATE:** 10/01/2025 **RESPONSIBILITY:** DISTRICT
**FREQUENCY:** 24 **CALCULATED INTERVAL**:** 24
**TEAM LEADER:** JERROD JERNIGAN **ELEMENT:** NO
**INSPECTOR 2:** **INSPECTOR 4:**
**INSPECTOR 3:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

#### *GENERAL INSPECTION COMMENTS*

### ***FRACTURE CRITICAL INSPECTION INFORMATION***

**DATE:** **RESPONSIBILITY:** **CATEGORY:**
**FREQUENCY:** **CALCULATED INTERVAL**:** **NBI:**
**TEAM LEADER:** **INSPECTOR 3:** **METHOD:**
**INSPECTOR 2:** **INSPECTOR 4:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

### ***INDEPTH INSPECTION INFORMATION***

**DATE:** **RESPONSIBILITY:** **CATEGORY:**
**FREQUENCY:** **CALCULATED INTERVAL**:** **NBI:**
**TEAM LEADER:** **INSPECTOR 3:** **METHOD:**
**INSPECTOR 2:** **INSPECTOR 4:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

#### *FRACTURE CRITICAL INSPECTION COMMENTS*

#### *INDEPTH INSPECTION COMMENTS*

### ***SPECIAL INSPECTION INFORMATION***

**DATE:** 07/11/2024 **RESPONSIBILITY:** DISTRICT **CATEGORY:** CHANNEL CROSS SEC
**FREQUENCY:** 120 **CALCULATED INTERVAL**:** 120 **NBI:** NO
**TEAM LEADER:** ED HESS **INSPECTOR 3:** **METHOD:** WT TAPE
**INSPECTOR 2:** **INSPECTOR 4:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

### ***UNDERWATER INSPECTION INFORMATION***

**DATE:** 10/01/2025 **RESPONSIBILITY:** DISTRICT **CATEGORY:** DRY
**FREQUENCY:** 60 **CALCULATED INTERVAL**:** 24 **NBI:** NO
**TEAM LEADER:** JERROD JERNIGAN **INSPECTOR 3:** **METHOD:** VISUAL
**INSPECTOR 2:** **INSPECTOR 4:**

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

#### *SPECIAL INSPECTION COMMENTS*

#### *UNDERWATER INSPECTION COMMENTS*

### OTHER SPECIAL INSPECTIONS

| DATE | FREQUENCY | CATEGORY | NBI | CALCULATED INTERVAL | RESPONSIBILITY | METHOD |
|---|---|---|---|---|---|---|

### OTHER UNDERWATER INSPECTIONS

| DATE | FREQUENCY | CATEGORY | NBI | CALCULATED INTERVAL | RESPONSIBILITY | METHOD |
|---|---|---|---|---|---|---|



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## ***STRUCTURE POSTING***

**APPROVED CATEGORY:** S-1 NO POSTING REQUIRED
**Ton 1:** **Ton 2:** **Ton 3:**
**COMMENTS:**

**FIELD CATEGORY:** S-1 NO POSTING REQUIRED
**Ton 1:** **Ton 2:** **Ton 3:** **PROBLEM:** **PROBLEM DIRECTION:**
**COMMENTS:**

## ***GENERAL COMMENTS/MAJOR RATED ITEMS***

**GENERAL COMMENTS:** (BOWDEJ1, 08/28/2008)--(30') SMP DECK GDR SPAN

**[ITEM 58] DECK:** 5-FAIR CONDITION **COMMENTS:** (DENNIB1, 10/28/2013)--PATCHES
**RATING :** 10/04/2017

**[ITEM 59] SUPER:** 5-FAIR CONDITION **COMMENTS:** (DENNIB1, 10/28/2013)--DETERIORATION
**RATING :** 10/04/2017

**[ITEM 60] SUB:** 6-SATISFACTORY CONDITION **COMMENTS:** (DENNIB1, 10/28/2013)--DIAGONAL CRACKS
**RATING :** 05/18/2001

**[ITEM 61] BANK/CHANNEL:** 6-WIDESPREAD MINOR DAMAGE **COMMENTS:**
**RATING :** 05/18/2001

**[ITEM 113] SCOUR:** 8-STABLE FOR CALCULATED **COMMENTS:**
**RATING :** 05/18/2001
**EVALUATION TYPE :**

**[ITEM 71] WATERWAY ADEQUACY:** DECK ABOVE FLOOD ELEV **COMMENTS:**
**RATING :** 05/18/2001

**[ITEM 72] APPRRDWY ALIGNMENT:** 6-SATISFACTORY **COMMENTS:**
**RATING :** 05/18/2001

## ***RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS***

***[ITEM 36A] BRIDGE RAILING RATING:*** *MEETS CURRENT STANDARDS-1* ***RATING :*** *05/18/2001* ***COMMENTS:***

| MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|
| GALVANIZED STEEL | THRIE BEAM | BOTH | |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | COMMENT |
|---|---|---|---|---|
| COLLISION DAMAGE | THROUGHOUT | | MINOR | (BOWDEJ1, 04/26/2010)--N. SIDE |

***[ITEM 36B] TRANSITION RAILING RATING:*** *MEETS CURRENT STANDARDS-1* ***RATING :*** *10/19/2021* ***COMMENTS:***

| MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|
| GALVANIZED STEEL | THRIE BEAM TO W-BEAM | ALL | |

***[ITEM 36C] APPROACH RAILING RATING:*** *MEETS CURRENT STANDARDS-1* ***RATING :*** *10/19/2021* ***COMMENTS:***

| MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|
| GALVANIZED STEEL | W-BEAM | ALL | |

***[ITEM 36D] RAIL END TREATMENT RATING:*** *MEETS CURRENT STANDARDS-1* ***RATING :*** *10/19/2021* ***COMMENTS:***


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| MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|
| GALVANIZED STEEL | BREKAWAY SYSTEM | ALL | |

**APPROACH PAVEMENT:** *Overall condition assigned for each approach pavemenet component is shown below.

| MATERIAL | CONSTRUCTION | DIRECTION | CONDITION* | COMMENTS |
|---|---|---|---|---|
| ASPHALT | BITUMINOUS MAT | BOTH | | |

## ***DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS***

***DECK PROTECTIVE COMPONENTS:***

| SERIES TYPE-# | COMPONENT | MATERIAL | CONSTRUCTION | THICKNESS | YEAR APPLIED | MANUFACTURE | OVERALL CONDITION |
|---|---|---|---|---|---|---|---|
| *MAIN SERIES-1* | *WEARING SURFACE* | *ASPHALT* | *BITUMINOUS MAT* | *7 IN* | *2019* | | *GOOD* |
| ***COMMENT:*** | | | | | | | |
| | *DECK PROTECTION* | *NOTAPPLICABLE* | *NONE* | | | | |
| ***COMMENT:*** | | | | | | | |
| | *MEMBRANE* | *LIQUID SEALANT* | *BUILT-UP* | | | | |
| ***COMMENT:*** | | | | | | | |

***DRAINAGE COMPONENTS:***

| COMPONENT | MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|---|

***EXPANSION DEVICE COMPONENTS:***

| SUB UNIT-# | SUB LABEL | COMPONENT | MATERIAL | CONSTRUCTION | GAP | YEAR APPLIED | MANUFACTURE | OVERALL CONDITION |
|---|---|---|---|---|---|---|---|---|

***COMMENT:***

***BANK/SLOPE PROTECTION COMPONENTS:***

| COMPONENT | MATERIAL | CONSTRUCTION | DIRECTION | COMMENTS |
|---|---|---|---|---|
| *BANK PROTECTION* | *EARTH FILL* | *BERM* | *BOTH* | |

## ***DECK COMPONENTS***

| SPAN TYPE-# | COMPONENT | MATERIAL | CONSTRUCTION | COMMENTS |
|---|---|---|---|---|
| *MAIN SPANS-1* | *DECK* | *REINFORCED CONCRETE* | *CAST-IN-PLACE* | *(BOWDEJ1, 04/26/2010)--HONEYCOMB AREA ON BOTTOM OF DECK EXT GDRS* |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| DELAMINATION | RANDOM | | MINOR | | |
| PATCHES | DRIVING SURFACE | | MANY | | |
| SATURATION | THROUGHOUT | | MINOR | 15 % | |

## ***SUPERSTRUCTURE COMPONENTS***

| SERIES TYPE-# | SPAN TYPE | MATERIAL | CONSTRUCTION | LABEL | COMMENTS |
|---|---|---|---|---|---|
| *MAIN SERIES-1* | *SIMPLE SPAN* | *REINFORCED CONCRETE* | *DECK GIR* | | |

| SPAN | COMPOSITE INDICATOR | LENGTH | WEATHERING STEEL | COMMENTS |
|---|---|---|---|---|
| MAIN SPANS-1 | NON-COMPOSITE | 30 FT 0 IN | NO | (BOWDEJ1, 01/30/2006)--REPAIR ABOUT 8' OF GDR BOTTOM |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| DETERIORATION | EXTERIOR GIRDERS | | MODERATE | | |


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| | | |
|---|---|---|
| DETERIORATION | INTERIOR GIRDERS | MODERATE |
| REBAR EXPOSED | EXTERIOR GIRDERS | MODERATE |

## ***SUBSTRUCTURE COMPONENTS***

| SUBSTRUCTURE | SKEW | LENGTH | MATERIAL | CONSTRUCTION | LABEL | COMMENTS |
|---|---|---|---|---|---|---|
| ABUTMENT-1 | | 21 FT 0 IN | REINFORCED CONCRETE | CANTILEVER | | |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|

| ASSOCIATED COMPONENT | MATERIAL | CONSTRUCTION |
|---|---|---|
| FLARED WINGS | REINFORCED CONCRETE | CAST-IN-PLACE |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| DIAGONAL CRACKS | RANDOM | | MODERATE | | |
| EFFLORESCENCE | RANDOM | | MODERATE | | |

| | | |
|---|---|---|
| FOOTING | REINFORCED CONCRETE | SPREAD |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|

| | | |
|---|---|---|
| WALL | REINFORCED CONCRETE | CAST-IN-PLACE |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| VERTICAL CRACKS | RANDOM | | FEW | | (SHRUBM1, 10/31/2011)--AT BRIDGE DECK CORNER |

| | | | | | |
|---|---|---|---|---|---|
| ABUTMENT-2 | | 21 FT 0 IN | REINFORCED CONCRETE | CANTILEVER | |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|

| ASSOCIATED COMPONENT | MATERIAL | CONSTRUCTION |
|---|---|---|
| FLARED WINGS | REINFORCED CONCRETE | CAST-IN-PLACE |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| DIAGONAL CRACKS | RANDOM | | MODERATE | | |

| | | |
|---|---|---|
| FOOTING | REINFORCED CONCRETE | SPREAD |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|

| | | |
|---|---|---|
| WALL | REINFORCED CONCRETE | CAST-IN-PLACE |

| CONDITION | LOCATION 1 | LOCATION 2 | SEVERITY | MEASUREMENT | COMMENT |
|---|---|---|---|---|---|
| VERTICAL CRACKS | RANDOM | | FEW | | (SHRUBM1, 10/31/2011)--AT BRIDGE DECK CORNER |

## ***OVER/UNDER ROUTES CLEARANCE INFORMATION***

***CLEARANCES OVER DECK***

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

| VERTICAL CLEARANCE TYPE** | VALUE | DIRECTION | DATE | COMMENT |
|---|---|---|---|---|


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***CLEARANCES UNDER BRIDGE***

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

| RECORD # | ROUTE | # LANES | DIRECTION OF TRAFFIC | RIGHT LATERAL CLEARANCE | LEFT LATERAL CLEARANCE | UR-ID |
|---|---|---|---|---|---|---|

| VERTICAL CLEARANCE TYPE** | VALUE | DIRECTION | DATE | COMMENT |
|---|---|---|---|---|

## ***STRUCTURE PAINT INFORMATION***

CONDITION: RUST AMOUNT : STEEL TONS : 0

| ORIGINAL PAINT | CONTRACT REPAINT | DEPARTMENT REPAINT | |
|---|---|---|---|
| PAINT TYPE : | PAINT TYPE : | PAINT TYPE : | MANUFACTURE : |
| NAME : | NAME : | NAME : | SURFACE PREP : |
| PAINT COLOR : | PAINT COLOR : | PAINT COLOR : | |
| PAINT YEAR : | PAINT YEAR : | PAINT YEAR : | |
| MILS : | MILS : | MILS : | |

## ***REQUESTED WORK ITEMS***

GENERAL WORK COMMENTS:

| RESPONSIBILITY | LOCATION | ITEM | CATEGORY | PRIORITY | DATE | WORK ITEM COMMENT |
|---|---|---|---|---|---|---|

## ***UTILITY ATTACHMENTS***

| UTILITY | OWNER | METHOD | MEASUREMENT TYPE | VALUE | NUMBER | UTILITY ATTACHMENT COMMENT |
|---|---|---|---|---|---|---|

## ***PROGRAM NOTES INFORMATION***

| YEAR | PROJECT # | MONTH LET | YEAR LET | ITEMS | COMMENT |
|---|---|---|---|---|---|
| 2027 | SE0040 | 1 | 2027 | REPLACE BRIDGE | |



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## ***COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS***

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.

| Rated Item | Rating | Rating Date |
|---|---|---|
| **[Item 67] Structure Evaluation Rating:** | 5-BETTER THAN MINIMUM | 11/28/2017 |
| **[Item 68] Deck Geometry Rating:** | 3-BASICALLY INTOL CORRECT | 5/12/2021 |
| **[Item 69] Underclearance:** | N-NOT APPLICABLE | 5/18/2001 |
| **Sufficiency Rating:** | 55.2% | 7/16/2025 |
| **Deficiency:** | FUNCTIONAL | 7/16/2025 |
| **Funding Eligibility:** | | ---- |
| **Estimated New Structure Length:** | | ---- |
| **Estimated Structure Cost:** | | ---- |
| **Estimated Total Project Cost:** | | ---- |
| **Year of Cost Estimate:** | | ---- |

NOTE: The above structure length and cost estimates are computer generated using algorithims in the TMS system. These algorthims 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.

## ***ADVANCED SIGN INFORMATION***

| SIGN # | SIGN TYPE | PROBLEM | PROBLEM DIRECTION |
|---|---|---|---|
| 1 | | | |

## ***OUTFALL INSPECTION INFORMATION***

**# OUTFALLS:** **INSPECTOR:**
**STATUS:** **DATE:**
**NOTES:**



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

November 6, 2025
3:10:27pm

| | | | | | |
|---|---|---|---|---|---|
| COUNTY : | IRON | BRIDGE : | G0272 R | REVIEW STATUS : | APPROVED |
| NBI STATUS : | T | RECORD TYPE : | ROUTE CARRIED 'ON' STRUCT | RUN DATE : | 10/16/2025 |
| SUBMITTAL YEAR : | 2025 | | | | |

### GENERAL STRUCTURE INFORMATION

| | | |
|---|---|---|
| 1 | State | MISSOURI |
| 2 | District | SE |
| 3 | County | IRON |
| 8 | Federal ID No. | 4576 |
| 27 | Year Built | 1922 |
| 106 | Year Reconstructed | 0 |
| 42A | Type of Service On | HIGHWAY |
| 21 | Structure Maintenance | STATE HIGHWAY AGENCY |
| 22 | Structure Owner | STATE HIGHWAY AGENCY |
| 33 | Br. Median Code | NO MEDIAN |
| 37 | Historical Significance | HISTORICAL SIGNIF UNKNWN |
| 101 | Parallel Struc Desg | NONE EXISTS |
| 103 | Temporary Structure | NOT TEMPORARY |
| 112 | NBIS Bridge Length | YES |

### ROUTE DESIGNATION INFORMATION

| | | |
|---|---|---|
| 5A | Record Type | ROUTE CARRIED 'ON' STRUCT |
| 5B | Route Signing Prefix | MO |
| 5C | Designated Level of Service | MAINLINE |
| 5D | Route Number | 00032 |
| 5E | Directional Suffix | NOT APPLICABLE |
| 7 | Facility Carried | MO 32 E |
| 12 | Base Hwy. Network | YES |
| 13A | LRS Inventory Route No. | 0000001056 |
| 13B | Subroute No. | 00 |
| 20 | Toll Status | ON FREE ROAD |
| 26 | Functional Classification | 06-RURAL MINOR ARTERIAL |
| 28A | Lanes on Structure | 02 |
| 100 | STRAHNET Designation | RTE NOT A DEFENSE HWY |
| 104 | National Highway System | NOT ON NHS |
| 105 | Federal Lands Highway | NOT APPLICABLE |
| 110 | Designated Nat. Network | YES |

### STRUCTURE LOCATION INFORMATION

| | | |
|---|---|---|
| 4 | Place | KAOLIN |
| | Code | 38018 |
| 9 | Location | S 33 T 35 N R 2 E |
| 11 | Milepoint | 222.34 miles |
| 16 | Latitude | 37 D 41 M 45 S |
| 17 | Longitude | 90 D 50 M 15 S |

### STRUCTURE TRAFFIC INFORMATION

| | | |
|---|---|---|
| 29 | AADT | 860 |
| 30 | AADT Year | 2024 |
| 102 | Direction of Traffic | 2-WAY TRAFFIC |
| 109 | AADT Truck Percent | 24% |
| 114 | Future AADT | 1290 |
| 115 | Future AADT Year | 2044 |

### UNDERRECORD INFORMATION

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

### STRUCTURE GEOMETRIC INFORMATION

| | | |
|---|---|---|
| 10 | Inventory Rte. Vert. Clear | 99 Ft. 99 In. |
| 19 | By pass Detour Length | 40.00 miles |
| 32 | Approach Roadway Width | 21 Ft. 12 In. |
| 34 | Skew | 0.00 Degrees |
| 35 | Struct. Flared | NO |
| 47 | Total Horiz. Clear | 20 Ft. 4 In. |
| 48 | Maximum Span Length | 29 Ft. 10 In. |
| 49 | Structure Length | 33 Ft. 2 In. |
| 50A | Left Curb/Sidewalk Width | 0 Ft. 0 In. |
| 50B | Right Curb/Sidewalk Width | 0 Ft. 0 In. |
| 51 | Curb to Curb Br. Width | 20 Ft. 4 In. |
| 52 | Deck Width (Out-Out) | 20 Ft. 12 In. |
| 53 | Vert.Clearance Over Deck | 99 Ft. 99 In. |

Design_No = g0272 and Inventory_Appraisal_Submittal_Year = 2025



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| SUBMITTAL YEAR : | 2025 | | | | |

### LOAD RATING AND POSTING INFORMATION

| | | |
|---|---|---|
| 31 | Design Load | H 15 |
| 41 | Structure Status | OPEN NO RESTRICTIONS |
| 63 | Oper. Rating Meth. | ALLOWABLE STRESS |
| 64 | Operating Rating | 52 Tons. |
| 65 | Inventory Rating Meth | ALLOWABLE STRESS |
| 66 | Inventory Rating | 26 Tons. |
| 70 | Bridge Posting Code | =>LEGAL LOADS |

### PROPOSED IMPROVEMENT INFORMATION

| | | |
|---|---|---|
| | Sufficiency Rating | 55.2 Percent |
| | Deficiency Rating | FUNCTIONAL |
| | Funding Eligibility | PARTIAL |
| 75A | Proposed Work | REHAB-GENERAL DETERIORAT |
| 75B | Work Done By | Contract |
| 76 | New Struc Length | 55 Ft. 9 In. |
| 94 | Struc Improve Cost | $ 221,000 |
| 95 | Roadway Improve Cost | $ 22,000 |
| 96 | Total Project Cost | $ 331,000 |
| 97 | Year of Cost Estimates | 2025 |

### APPRAISAL RATING INFORMATION

| | | |
|---|---|---|
| 36A | Br. Rail App. Rating | MEETS ACCEPTBLE STND |
| 36B | Transition Rail App. Rating | MEETS ACCEPTBLE STND |
| 36C | Approach Rail App. Rating | MEETS ACCEPTBLE STND |
| 36D | Rail End Treat. App. Rating | MEETS ACCEPTBLE STND |
| 67 | Struc Eval App. Rating | 5 |
| 68 | Deck Geometry App. Rating | 3 |
| 69 | Underclearance App. Rating | N |
| 71 | Waterway Adeq. App. Rating | 8 |
| 72 | Approach Road App. Rating | 6 |
| 113 | Scour Assess App. Rating | 8 |

### MATERIAL/CONSTRUCTION INFORMATION

| | | |
|---|---|---|
| 43A | Main Struc. Mat type | CONCRETE |
| 43B | Main struc Constr. Type | TEE BEAM |
| 45 | # of Main Spans | 1 |
| 44A | Appr Struc. Mat type | 000 |
| 44B | Appr Struc. Cnstr. type | 000 |
| 46 | # of Approach Span | 0 |
| 107 | Deck Mat/Constr. | 1 CONCRETE CIP |
| 108A | Wear Surf Mat/Constr. | 6 BITUMINOUS |
| 108B | Membrane Mat/Constr. | 1 BUILT UP |
| 108C | Deck Protect Mat/Constr. | 0 NONE |

### CONDITION RATING INFORMATION

| | | |
|---|---|---|
| 58 | Deck Cond. Rating | 5 |
| 59 | Superstructure Cond. Rating | 5 |
| 60 | Substructure Cond. Rating | 6 |
| 61 | Channel /Channel Protection Cond. Rating | 6 |
| 62 | Culvert Cond. Rating | N |

### INSPECTION INFORMATION

| | | | |
|---|---|---|---|
| 90 | Gen. Insp Date | 10 / 25 | |
| 91 | Gen. Insp. Frequency | 24 | Months |
| 92A | Frac. Critical Inspection | N | Months |
| 93A | Frac. Critical Insp. Date | | |
| 92B | Underwater Inspection | N | Months |
| 93B | Underwater Insp. Date | | |
| 92C | Special Inspection | N | Months |
| 93C | Special Inspection Date | | |

### BORDER BRIDGE INFORMATION

| | |
|---|---|
| 98 | Neighboring State Code |
| 98B | Neighboring State % Respon |
| 99 | Neighboring State Struc. No. |

### APPROVED POSTING INFORMATION

Approved Posting Category S-1

| | Ton1 | Ton2 | Ton3 |
|---|---|---|---|
| Tonnage Values for Posting Sign | | | |

General Text for Posting Sign

NO POSTING REQUIRED

### FIELD POSTING INFORMATION

Field Posting Category S-1

| | Ton1 | Ton2 | Ton3 |
|---|---|---|---|
| Tonnage Values for Posting Sign | | | |

General Text for Posting Sign

NO POSTING REQUIRED

Design_No = g0272 and Inventory_Appraisal_Submittal_Year = 2025



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