





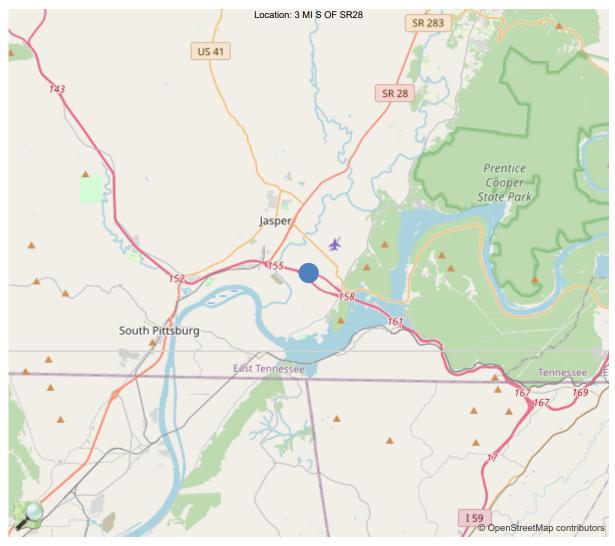
Latitude:35.04398, Longitude:-85.60290

Region 02, 58 - Marion County

Team Leader: Derek Yates

Inspectors: Anthony Pack





I-24 Crossing I-24 WB / SHELLMOUND RD. 35.04398, -85.60290



Routine Bridge Inspection Report

| Marion County | | | |
|-------------------|--|--|--|
| Federal ID | 58100240069 | | |
| Location | 58-10024-22.65 | | |
| Description | Interstate 24 Westbound Lanes over Shellmound Road, I-24 Milepost 157.16 | | |
| GPS Coordinates | 35.043983, -85.602900 | | |
| Date | 7/16/2024 | | |
| Overall Condition | Fair | | |







Maintenance Recommendations

525 - Repair List # 2 523 - Repair List Add Date 9/13/2013 524 - Repair List Revise Date 7/13/2022

| Date Added | Recommendation | Priority |
|------------|---|----------|
| 08/26/2008 | APPROACH GUARDRAILS ARE SUBSTANDARD | |
| 08/26/2008 | APPROACH GUARDRAIL TERMINALS ARE SUBSTANDARD | |
| 09/17/2002 | UNDERPASS SUBSTRUCTURE PROTECTION GUARDRAILS ARE NON-EXISTENT | |
| 07/13/2022 | REPAIR CONCRETE GIRDERS "A", "B" AND "C" IN SPAN #2 | 2 |



Region: 02, County: 58 - Marion

Team Lead: Derek Yates, Inspection Date: 07/16/2024

| 90 - LAST INSPECTION DATE | 07/16/2024 |
|---|------------|
| 10 - MIN. V.C. OVER DECK (ROADWAY + SHOULDERS) | 99.99 FT. |
| 520 - MIN. V.C. OVER DECK (EXCLUDES SHOULDERS) | 99.99 FT. |

36 - TRAFFIC SAFETY FEATURES

| 30 - IIVA | 30 - INALLIO GALLITTEATORES | | | | | |
|--------------------------------|---|------------|-----------|-----|----------|--|
| Br. Rail | Trans. | Appr. Rail | Terminal | SPE | EED LIM. | |
| 1 | 0 | 0 | N | | 70 | |
| 41 - STR | C OPEN/C | LOSED/POS | TED | Α | | |
| 58 - DEC | K | | | 6 | | |
| 59 - SUP | ERSTRUC | TURE | | 5 | | |
| 60 - SUB | 60 - SUBSTRUCTURE 7 | | | | | |
| 61 - CHA | 61 - CHANL/CHANL PROTECTION N | | | | | |
| 62 - CULVERT AND RETAIN WALL N | | | | | | |
| 71 - WATERWAY ADEQUACY N | | | | | | |
| 72 - APPROACH RDWY ALIGNMENT 8 | | | | | | |
| 521 - OV | 521 - OVERALL CONDITION 2 - Fair | | | | | |
| 16 - LAT | 16 - LATITUDE 17 - LONGITUDE | | | | | |
| 35 | .043983 | -8 | 35.602900 | | | |

TEAM LEADER SIGNATURE

- N NOT APPLICABLE
- 9 EXCELLENT CONDITION
- 8 VERY GOOD CONDITION NO PROBLEMS NOTED.
- 7 GOOD CONDITION SOME MINOR PROBLEMS.
- 6 SATISFACTORY CONDITION MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
- 5 FAIR CONDITION ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
- 4 POOR CONDITION ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
- 3 SERIOUS CONDITION LOSS OF SECTION, DETERIORATION, SPALLING OR SCOUR HAVE SERIOUSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS, LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT.
- 2 CRITICAL CONDITION ADVANCED
 DETERIORATION OF PRIMARY STRUCTURAL
 ELEMENTS. FATIGUE CRACKS IN STEEL OR
 SHEAR CRACKS IN CONCRETE MAY BE
 PRESENT OR SCOUR MAY HAVE REMOVED
 SUBSTRUCTURE SUPPORT. UNLESS
 CLOSELY MONITORED IT MAY BE
 NECESSARY TO CLOSE THE BRIDGE UNTIL
 CORRECTIVE ACTION IS TAKEN.
- 1 "IMMINENT" FAILURE CONDITION MAJOR DETERIORATION OR SECTION LOSS PRESENT IN CRITICAL STRUCTURAL COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING STRUCTURAL STABILITY. BRIDGE IS CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT IT BACK IN LIGHT SERVICE.
- 0 FAILED CONDITION OUT OF SERVICE AND BEYOND CORREC



| IDENTIFICAT | CION |
|---|--|
| (1) State Names | 47 - Tennessee |
| (8) Structure Number | 58100240069 |
| (5) Inventory Route | 1 |
| (2) Highway Agency District | Region 2 |
| (3) County Code | 58 - Marion |
| (4) Place Code (6) Features Intersected | I-24 WB / SHELLMOUND RD. |
| (7) Facility Carried | I24 WBL |
| (9) Location | 3 MI S OF SR28 |
| (11) Mile Point | 22.650 mi |
| (12) Base Highway Network | Yes |
| (13) LRS Inventory Rte & Subrte | 5810024001 |
| (16) Latitude | 35.043983 |
| (17) Longitude | -85.602900 |
| (98) Border Bridge State Code | |
| (99) Border Bridge Structure No. | |
| STRUCTURE TYPE AN | D MATERIAL |
| (43) Main Structure Type | 24 |
| Material | 2 - Concrete continuous |
| Туре | 4 - Tee beam |
| (44) Approach Structure Type | 00 |
| Material | 0 - Other / None |
| Type | 0 - Other / None |
| (45) No. of Spans in Main Unit | 3 |
| (46) No. of Approach Spans | 0 |
| (107) Deck Structure Type | 1 - Concrete Cast-in-Place |
| (108) Wearing Surface/Protective System Type of Wearing Surface | 6 - Bituminous |
| Type of Wearing Surface Type of Membrane | 0 - None |
| Type of Membrane Type of Deck Protection | 0 - None |
| AGE AND SER | |
| (27) Year Built | 1965 |
| (106) Year Reconstructed | 0 |
| (42) Type of Service | 11 |
| On | 1 - Highway |
| | hway, with or without pedestrian |
| | |
| (28) Lane | may, mar or marout podeouran |
| (28) Lane On | grivay, war or wareat peacetrian |
| On Under | 2 2 |
| On Under (29) Average Daily Traffic | 2 2 52102 |
| On Under (29) Average Daily Traffic (30) Year of ADT | 2 2 52102 2021 |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT | 2 2 52102 2021 7 % |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length | 2 2 52102 2021 7 % 1 mi |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I | 2 2 52102 2021 7 % 1 mi |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span | 2 2 52102 2021 7 % 1 mi DATA |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length | 2 2 52102 2021 7 % 1 mi |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span | 2 2 52102 2021 7 % 1 mi DATA 42.0 ft 106.0 ft |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width | 2 2 2 52102 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width | 2 2 52102 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width | 2 2 52102 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft 36.2 ft |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulded) | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulded) (33) Bridge Median | 2 2 52102 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft 36.2 ft 40.3 ft 40.3 ft 1 - Open median |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulde (33) Bridge Median (34) Skew | 2 2 52102 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft 40.3 ft 40.3 ft 40.3 ft 40.5 ft 40. |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulde (33) Bridge Median (34) Skew (35) Structure Flared | 2 2 52102 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft 36.2 ft 40.3 ft 40.3 ft 1 - Open median 84 Deg 0 - No flare |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Should (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear | 2 2 2021 52102 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft 36.2 ft 40.3 ft 40.3 ft 1 - Open median 84 Deg 0 - No flare 99.99 ft |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Should (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear | 2 2 2 221 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft 36.2 ft 40.3 ft 24.0 ft 1 - Open median 84 Deg 0 - No flare 99.99 ft 36.3 ft |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Should (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear (53) Min Vert Clear Over Bridge Rdwy (54) Min Vert Underclear Ref: | 2 2 52102 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft 40.3 ft 40.3 ft 40.3 ft 40.3 ft 99.99 ft 15.40 ft |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Should (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear (53) Min Vert Clear Over Bridge Rdwy (54) Min Vert Underclear Ref: | 2 2 2 52102 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft 36.2 ft 40.3 ft 24.0 ft 1 - Open median 84 Deg 0 - No flare 99.99 ft 36.3 ft 99.99 ft |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Should (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear (53) Min Vert Clear Over Bridge Rdwy (54) Min Vert Underclear Ref: (55) Min Lat Underclear RT Ref: | 2 2 22 52102 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft 36.2 ft 40.3 ft 24.0 ft 1 - Open median 84 Deg 0 - No flare 99.99 ft 36.3 ft 99.99 ft 15.40 ft |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulde (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear (53) Min Vert Clear Over Bridge Rdwy (54) Min Vert Underclear Ref: (55) Min Lat Underclear RT Ref: | 2 2 2 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft 36.2 ft 40.3 ft 24.0 ft 1 - Open median 84 Deg 0 - No flare 99.99 ft 36.3 ft 99.99 ft 15.40 ft 10.0 ft |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulde (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear (53) Min Vert Clear Over Bridge Rdwy (54) Min Vert Underclear Ref: (55) Min Lat Underclear RT Ref: (56) Min Lat Underclear LT NAVIGATION | 2 2 2 2 2 2 2 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft 36.2 ft 40.3 ft 40.3 ft 24.0 ft 1 - Open median 84 Deg 0 - No flare 99.99 ft 36.3 ft 99.99 ft 15.40 ft 10.0 ft |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC I (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulde (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear (53) Min Vert Clear Over Bridge Rdwy (54) Min Vert Underclear Ref: (55) Min Lat Underclear RT Ref: (56) Min Lat Underclear LT NAVIGATION (38) Navigation Control | 2 2 2 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft 36.2 ft 40.3 ft 24.0 ft 1 - Open median 84 Deg 0 - No flare 99.99 ft 36.3 ft 99.99 ft 15.40 ft 10.0 ft |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC 1 (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulde (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear (53) Min Vert Clear Over Bridge Rdwy (54) Min Vert Underclear Ref: (55) Min Lat Underclear RT Ref: (56) Min Lat Underclear LT NAVIGATION (38) Navigation Control (111) Pier Protection | 2 2 52102 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft 36.2 ft 40.3 ft ers) 24.0 ft 1 - Open median 84 Deg 0 - No flare 99.99 ft 36.3 ft 99.99 ft 15.40 ft 10.0 ft |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC 1 (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Should: (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear (53) Min Vert Clear Over Bridge Rdwy (54) Min Vert Underclear Ref: (55) Min Lat Underclear RT Ref: (56) Min Lat Underclear LT NAVIGATION (38) Navigation Control (111) Pier Protection (39) Navigation Vertical Clearance | 2 2 52102 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft 36.2 ft 40.3 ft 40.3 ft 1 - Open median 84 Deg 0 - No flare 99.99 ft 36.3 ft 99.99 ft 15.40 ft 10.0 ft 10.0 ft 9.0 ft N - Not applicable, no waterwa |
| On Under (29) Average Daily Traffic (30) Year of ADT (109) Truck ADT (19) Bypass, Detour Length GEOMETRIC 1 (48) Length of Maximum Span (49) Structure Length (50) Curb or Sidewalk Width (51) Bridge Roadway Width Curb to Curb (52) Deck Width Out to Out (32) Approach Roadway Width (W/Shoulde (33) Bridge Median (34) Skew (35) Structure Flared (10) Inventory Route Min Vert Clear (47) Inventory Route Total Horiz Clear (53) Min Vert Clear Over Bridge Rdwy (54) Min Vert Underclear Ref: (55) Min Lat Underclear RT Ref: (56) Min Lat Underclear LT NAVIGATION (38) Navigation Control (111) Pier Protection | 2 2 52102 2021 7 % 1 mi DATA 42.0 ft 106.0 ft Left 0.0 ft Right 0.0 ft 36.2 ft 40.3 ft ers) 24.0 ft 1 - Open median 84 Deg 0 - No flare 99.99 ft 36.3 ft 99.99 ft 15.40 ft 10.0 ft |

| CLACCIE | TICATION |
|---|---|
| (112) NBIS Bridge Length | FICATION |
| (104) Highway System | <u>_</u> 1 |
| (26) Functional Class | 1 - Rural Principal Arterial - |
| (100) Defense Highway | 1 - The inventory route is on |
| (101) Parallel Structure | N - No parallel structure exis |
| (102) Direction of Traffic | 1 - way traffic |
| (103) Temporary Structure | <u> </u> |
| (105) Federal Lands Highways | 0 - N/A |
| (110) Designated National Network | 1 - The inventory route is par |
| (20) Toll | 3 - On free road. The structu |
| (21) Maintain | 1 - State Highway Agency |
| (22) Owner | 1 - State Highway Agency |
| (37) Historical Significance | 4 - Historical significance is |
| | DITION |
| (58) Deck | 6 |
| (59) Superstructure | 5 |
| (61) Substructure | 7 N |
| (61) Channel & Channel Protection (62) Culverts | N N |
| | G AND POSTING |
| (31) Design Load | 5 - MS 18 / HS 20 |
| (63) Operating Rating Method | 3 - WS 107 113 20 8 |
| (64) Operating Rating | |
| | ad and Resistance Factor Rating (LRF |
| Rating | 33.70 |
| (65) Inventory Rating Method | 8 - Load and Resistance Factor |
| (66) Inventory Rating | |
| Тур | е |
| Ratin | g 25.92 |
| (70) Bridge Posting | 5 - Equal to or above legal loads |
| (41) Structure Open/Posted/Closed | A - Open, no restriction |
| | AISAL |
| | E |
| (67) Structural Evaluation | 5 |
| (68) Deck Geometry | 8 |
| (68) Deck Geometry(69) Clearances, Vertical/Horizontal | <u>8</u> |
| (68) Deck Geometry (69) Clearances, Vertical/Horizontal (71) Waterway Adequacy | 8 5 N |
| (68) Deck Geometry (69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment | 8 5 N 8 |
| (68) Deck Geometry (69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings | 8 5 N 8 1 - Inspected feature meets current |
| (68) Deck Geometry (69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions | 8 5 N 8 |
| (68) Deck Geometry (69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings | 8 5 N 8 1 - Inspected feature meets current 0 - Inspected feature does not meet |
| (68) Deck Geometry (69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail | 8 5 N 1 - Inspected feature meets current 0 - Inspected feature does not meet 0 - Inspected feature does not meet |
| (68) Deck Geometry (69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges | 8 5 N 8 1 - Inspected feature meets current 0 - Inspected feature does not meet 0 - Inspected feature does not meet N - Not applicable or a safety feat |
| (68) Deck Geometry (69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges | 8 5 N 8 1 - Inspected feature meets current 0 - Inspected feature does not meet 0 - Inspected feature does not meet N - Not applicable or a safety feat N - Bridge not over waterway. |
| (68) Deck Geometry (69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IM | 8 5 N 8 1 - Inspected feature meets current 0 - Inspected feature does not meet 0 - Inspected feature does not meet N - Not applicable or a safety feat N - Bridge not over waterway. IPROVEMENTS 35 - Bridge rehabilitation bec t 106.0 ft |
| (68) Deck Geometry (69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IM (75) Type of Work (76) Length of Structure Improvemen (94) Bridge Improvement Cost | 8 5 N 8 1 - Inspected feature meets current 0 - Inspected feature does not meet N - Not applicable or a safety feat N - Bridge not over waterway. IPROVEMENTS 35 - Bridge rehabilitation bec t 106.0 ft \$ 601 |
| (68) Deck Geometry (69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IM (75) Type of Work (76) Length of Structure Improvement (94) Bridge Improvement Cost (95) Roadway Improvement Cost | 8 5 N 8 1 - Inspected feature meets current 0 - Inspected feature does not meet 0 - Inspected feature does not meet N - Not applicable or a safety feat N - Bridge not over waterway. IPROVEMENTS 35 - Bridge rehabilitation bec t 106.0 ft \$601 |
| (68) Deck Geometry (69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IM (75) Type of Work (76) Length of Structure Improvemen (94) Bridge Improvement Cost (95) Roadway Improvement Cost (96) Total Project Cost | 8 5 N 8 1 - Inspected feature meets current 0 - Inspected feature does not meet 0 - Inspected feature does not meet N - Not applicable or a safety feat N - Bridge not over waterway. IPROVEMENTS 35 - Bridge rehabilitation bec t 106.0 ft \$ 601 \$ 61 |
| (68) Deck Geometry (69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IM (75) Type of Work (76) Length of Structure Improvemen (94) Bridge Improvement Cost (95) Roadway Improvement Cost (96) Total Project Cost | 8 5 N 8 1 - Inspected feature meets current 0 - Inspected feature does not meet 0 - Inspected feature does not meet N - Not applicable or a safety feat N - Bridge not over waterway. IPROVEMENTS 35 - Bridge rehabilitation bec t 106.0 ft \$ 601 \$ 61 \$ 902 ate 2021 |
| (68) Deck Geometry (69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IM (75) Type of Work (76) Length of Structure Improvement (94) Bridge Improvement Cost (95) Roadway Improvement Cost (96) Total Project Cost (97) Year of Improvement Cost Estim (114) Future ADT | 8 5 N 8 1 - Inspected feature meets current 0 - Inspected feature does not meet 0 - Inspected feature does not meet N - Not applicable or a safety feat N - Bridge not over waterway. IPROVEMENTS 35 - Bridge rehabilitation bec t 106.0 ft \$ 601 \$ 601 \$ 902 atte 2021 77918 |
| (68) Deck Geometry (69) Clearances, Vertical/Horizontal (71) Waterway Adequacy (72) Approach Roadway Alignment (36A) Bridge Railings (36B) Transitions (36C) Approach Guardrail (36D) Approach Guardrail Ends (113) Scour Critical Bridges PROPOSED IM (75) Type of Work (76) Length of Structure Improvemen (94) Bridge Improvement Cost (95) Roadway Improvement Cost (96) Total Project Cost | 8 5 N 8 1 - Inspected feature meets current 0 - Inspected feature does not meet 0 - Inspected feature does not meet N - Not applicable or a safety feat N - Bridge not over waterway. IPROVEMENTS 35 - Bridge rehabilitation bec t 106.0 ft \$ 601 \$ 61 \$ 902 ate 2021 |
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Looking ahead on route



Top of deck





Looking back on route



Typical bottom of deck





Left side view of structure



Right side view of structure





Underclearance looking ahead on underpass route



Underclearance looking back on underpass route





Bridge number and underpass number



Typical abutment





Typical bent



Typical spall in overhang





Collision damage to beams in span #2



Broken steel reinforcing in beam "A" in span #2





Vegetation growth between cracks in slope paving



| PERFORMANCE EVALUATION | | | | | |
|------------------------|---------------------------------|--|------|-------------------------|--|
| | y Inspected bserved <u>A</u> | - | Л. | Weather Condition | ns Clear, 90°F |
| | | | | LIVE LOAD BEHAVIOR | |
| Sub Vibrat | iz./ Vert. De | (No) (No) fl (No) (No) | | APPROACH | |
| Alignment | | (Good) | | | |
| Slab | | (NA) | _ | | |
| Joints | | (Good) | | | |
| Pavement | | (Good) | | | |
| Embankm | ent | (Good) | | | |
| Approach | Drains | (NA) | | | |
| | | | | TRAFFIC SAFETY FEATURES | |
| Bridge Rai | iling | (Good) | Some | minor cracks | |
| Transition | s Rating | (Good) | | | |
| Guardrail | _ | (Good) | | | |
| Guardrail Rating | Terminal | (Good) | | | |
| | | | | SIGNS POSTED ON ROUTE | |
| Paddleboa | rds | | No | Weight Limit Post | ed Not Needed |
| Vertical Cle | earance (<1 | 4'-6") | No | Gross | Tons |
| Posted Hei | ight | | | Single-unit Vehicle | e Tons |
| Narrow Bri | dge Signs | _ | No | · | |
| One Lane | Bridge Signs | · _ | No | Multi-unit Vehicle | Tons |
| Other Sign | s or Plaques | - - | | 564 Assigned Brid | dge Name |
| | | | | ATTACHED SIGNS | |
| Sign No | L | ocation | | Text on Sign | PRODUCED PURSUANT TO PUBLIC RECORDS REQUES Noted Defects covered by 23 |



DECK Wearing Surface Type Asphalt Wearing Surface Depth 6 **Wearing Surface** (Good) **Deck - Structural** (Fair) Isolated minor and moderate spalls with exposed rebar in overhangs Condition Curbs (NA) Median (NA) **Sidewalks** (NA) **Parapet** (Good) Some minor cracks Railing (NA) **Rail Paint** (NA) **Deck Drains** (NA) **Lighting Standards** (NA) **Utilities** (NA) **Expansion Joints** (NA) **SUPERSTRUCTURE Bearing Devices** (Good) **Girders** (Fair) Beams "A", "B", and "C" in span #2 have moderate collision damage; beam "A" in span #2 has severed reinforcing steel due to collision damage **Beams** (NA) Floor Beams (NA) Stringers (NA) **Diaphragms** Isolated minor cracks and delaminated areas (Good) Superstructure (NA) **Bracing** Trusses - General (NA) Trusses - Portals (NA) Trusses - Bracing (NA) Superstructure Paint (Good) Alignment of (Good) Members

TEXTURE COAT



| | ABUTMENTS | | | |
|---------------------------|------------------|---|--|--|
| Abutment Caps | (Good) | Some minor cracking | | |
| Abutment Breastwall | (NA) | | | |
| Abutment Wings | (Good) | Minor spall at #2 right | | |
| Abutment Backwall | (Good) | | | |
| Abutment Plumb | (Good) | | | |
| Abutment Footing | (NA) | | | |
| Abutment Piles | (Not Visible) | | | |
| Abutment Embankment | (Good) | | | |
| Abutment Bearing Surface | (Good) | | | |
| Abutment Slope Paving | (Good) | Vegetation growing between slabs | | |
| Abutment Rip Rap | (NA) | | | |
| | | | | |
| | | PIERS | | |
| Pier Caps | (NA) | | | |
| Pier Columns I Walls | (NA) | | | |
| Pier Plumb | (NA) | | | |
| Pier Footing | (NA) | | | |
| Pier Piles | (NA) | | | |
| Pier Bearing Surface | (NA) | | | |
| | | | | |
| | | BENTS | | |
| Bent Caps | (NA) | | | |
| Bent Columns | (Good) | Some minor rebar pop-outs and delaminated areas | | |
| Bent Plumb | (NA) | | | |
| Bent Footing | (Not Visible) | | | |
| Bent Piles | (Not Visible) | | | |
| Bent Bearing Surface | (Good) | | | |
| Piles Need Replacement | (No) | | | |



Inspection Team's Summary

This bridge consists of three continuous concrete deck girder spans with an asphalt wearing surface which has a total length of 106 feet and a maximum span length of 42 feet. It is situated on a 84° left skew and crosses over Shell Mound Road. This structure was constructed in 1965. The bridge was inspected on July 16, 2024, by a Region 2 bridge inspection team from Tullahoma and was found to be in overall fair condition.

The approach roadway alignment is rated good. The approach pavement is rated good. The approach safety features are rated good but do not meet the current safety standards except for the terminal ends which do meet the current safety standards. The approach drains and embankments are rated good.

The deck is rated fair. The top of the deck is not visible due to the asphalt wearing surface. The bottom of the deck has isolated minor and moderate spalls in the overhangs. The concrete parapets are rated good and meet the current safety standards.

The superstructure is rated fair. All three concrete girders in span #2 have moderate spalled areas. Beam "A" has one severed reinforcing bar due to collision damage.

The substructure is rated good. The abutment caps have some minor cracking. The backwall of abutment #1 and a few bent columns have minor delaminated areas. The concrete slope pavement is rated good but has vegetation growth between the slabs. The bent columns have some minor rebar pop-outs and delaminated areas.

The underpass roadway is rated fair. There are currently no underpass safety protection features in place.

General Inspection Comment

HQ notes to TL





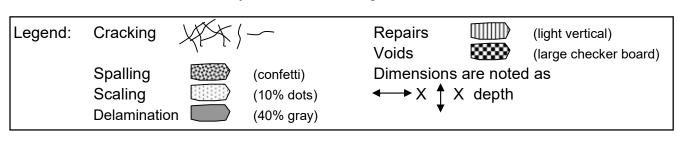
| | | Deck Elevation | | |
|------------------|--------|--|---------------|--|
| Benchmark height | 644.59 | Elevation "1" on top of curb, on right side of abutment 1. | Edge location | |
| 0 | | | | |

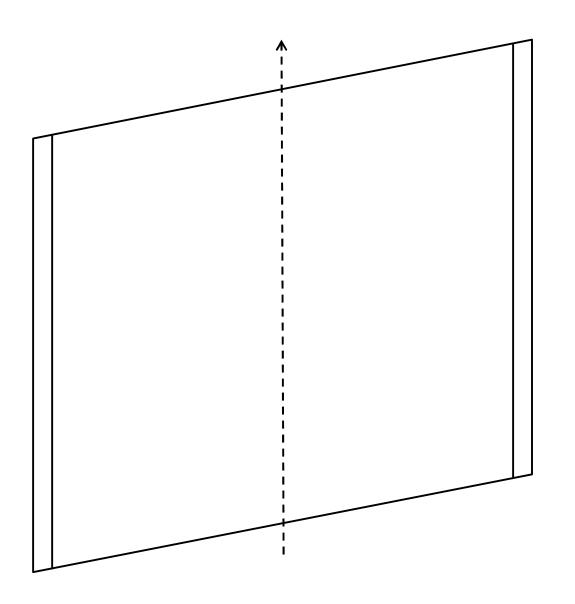
Comment

| Location | Top Lt. Curb | Left Gutter | Center Line | Right Gutter | Top Rt. Curb |
|------------|--------------|-------------|-------------|--------------|--------------|
| ABUTMENT 1 | 644.6 | 644.23 | | 643.77 | 644.22 |
| PIER 1 | 644.74 | 644.75 | | 643.06 | 644.41 |
| PIER 2 | 645.08 | 644.75 | | 644.36 | 644.7 |
| ABUTMENT 2 | 645.38 | 644.02 | | 644.36 | 644.85 |

Top of Deck Span No. 1

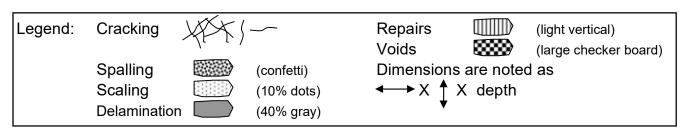
Date 07/16/24

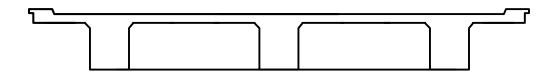


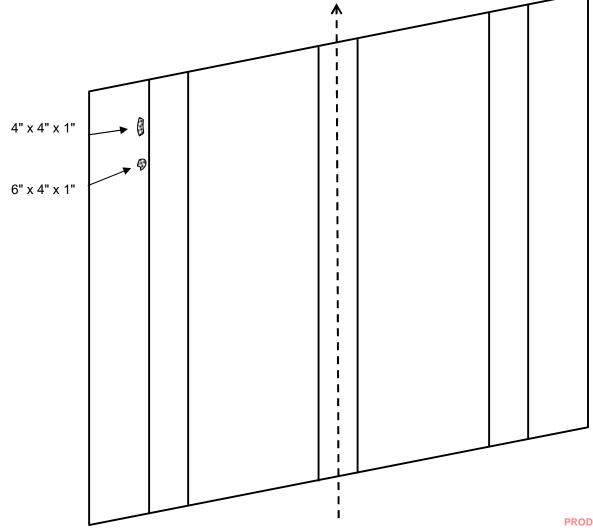


Bottom of Deck Span No. 1

Date 07/16/24

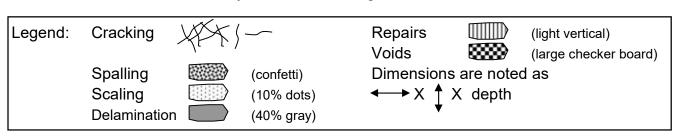


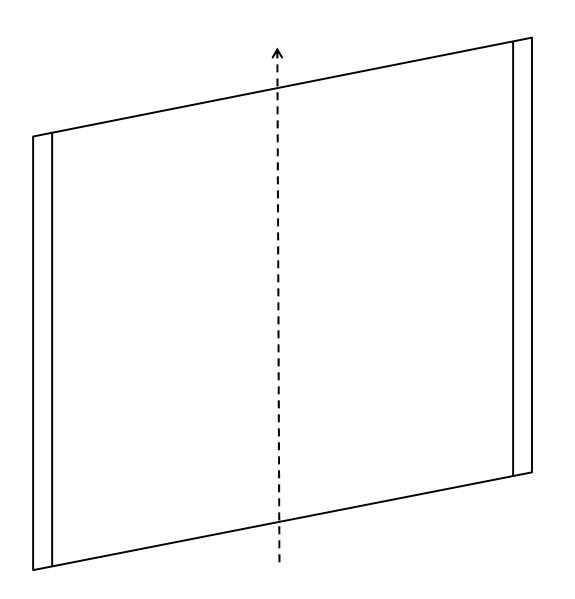




Top of Deck Span No. 2

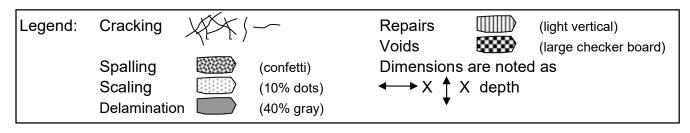
Date 07/16/24

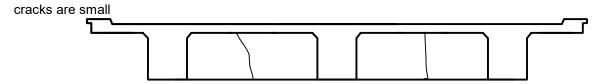


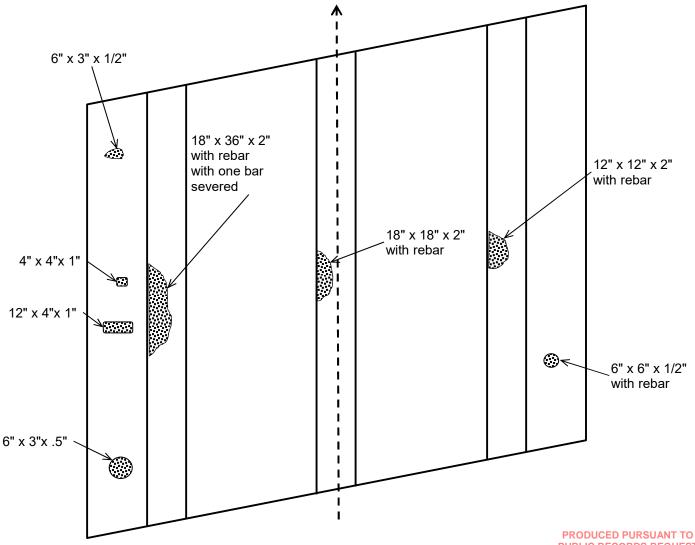


Bottom of Deck Span No. 2

Date 07/16/24

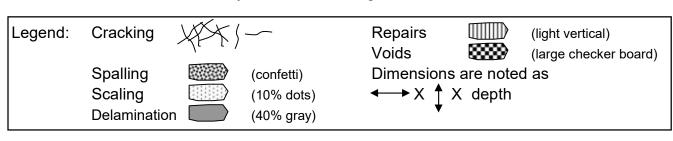


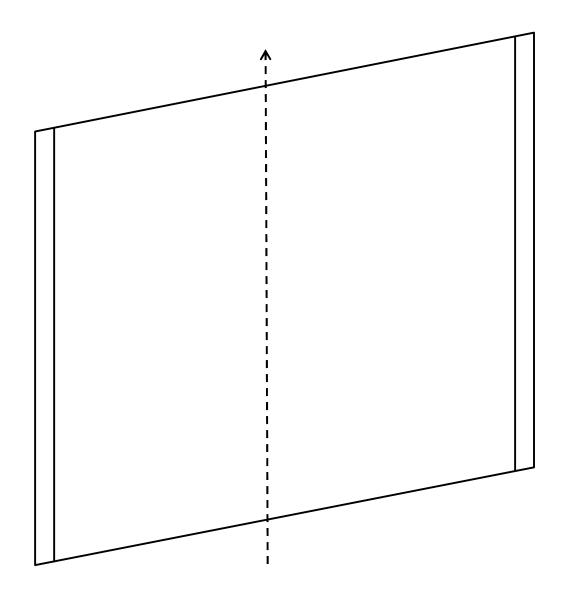




Top of Deck Span No. 3

Date 07/16/24

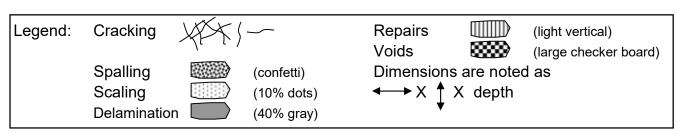


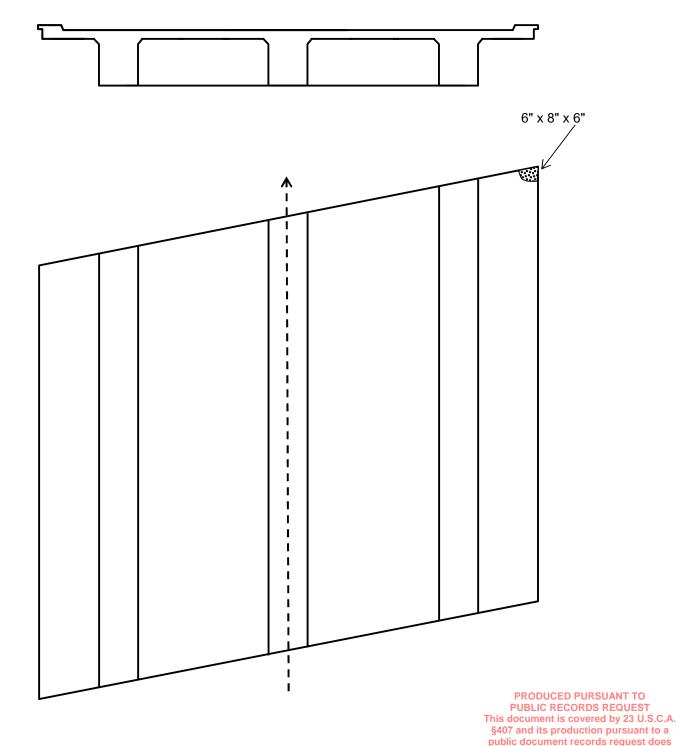


Bottom of Deck Span No. 3

Date 07/16/24

not waive the provisions of §407.

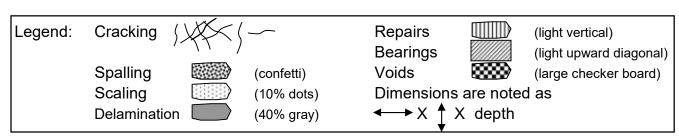


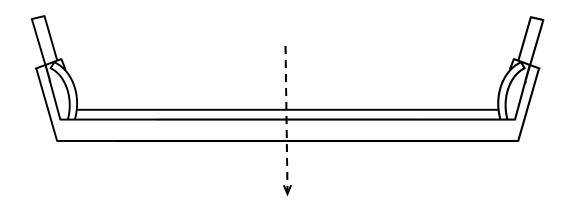


Abutment No. 1

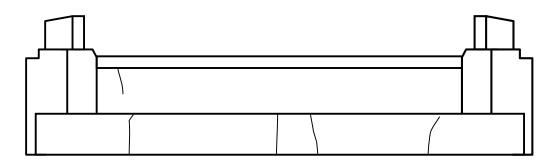
Date 07/16/24

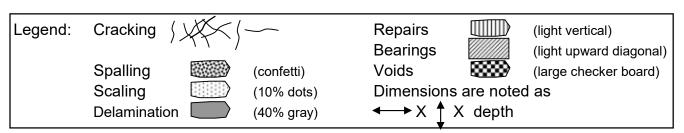
Bridge Location No. 58 I-24 22.65 L County Route Log Mile

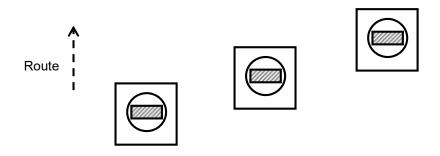


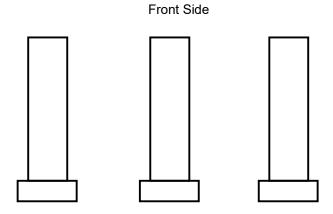


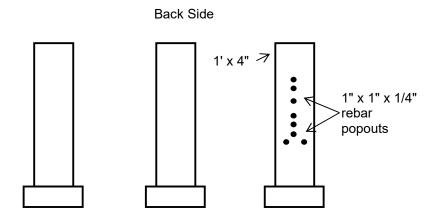
cracks are hairline

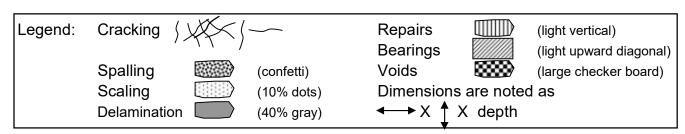


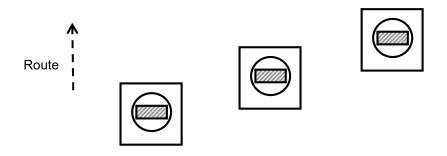


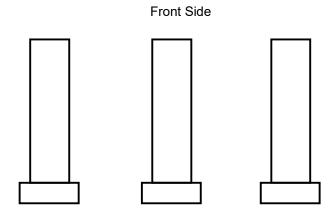


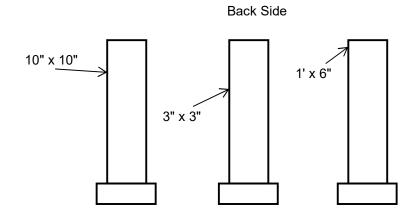








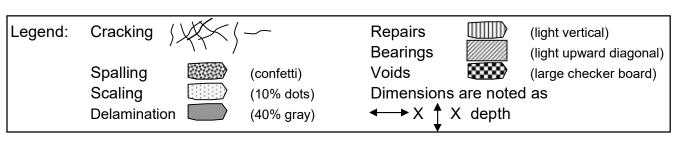


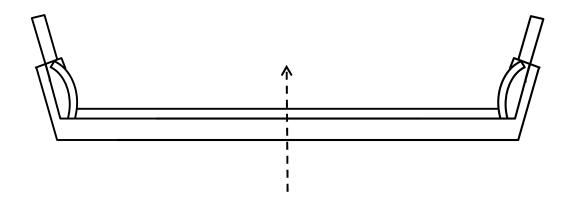


Abutment No. 2

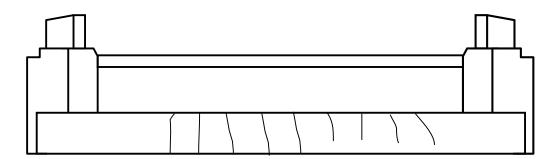
Date 07/16/24

Bridge Location No. 58 I-24 22.65 L County Route Log Mile





cracks are hairline



Form BIR 3.10

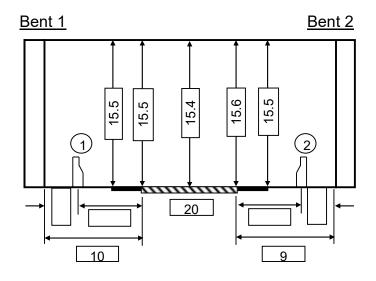
REVISED 6-9-92

Date 07/16/24

NOTE: ALL DISTANCES AND ELEVATIONS ARE IN FEET.

Bridge Location No. 58 I-24 Z2.65 L County Route Log Mile

Lateral and Vertical Clearances for One Lane Highway



| 1. Rail / Barrier Type: | W-Shape | Conc. Barrier | None | |
|-------------------------|---------|---------------|------|---|
| 2. Rail / Barrier Type: | W-Shape | Conc. Barrier | None |) |



Equipment List

| General Inspection | Tools For Measuring |
|-------------------------------|--|
| Yes Pocket knife | Masonry/Wood Ruler |
| Yes Sounding/chipping hammer | Yes 6' Pocket Tape |
| Chain drag | 25' and 100' Tape |
| Yes Range pole | Calipers |
| 25' rod - depth and clearance | Thermometer |
| Visual Aid | Carpenter's Level String and Weighted line (plumb bob) |
| Binoculars | |
| Flashlight | Special Purpose Equipment |
| Magnifying glass | Reach All |
| Hand mirror | Bucket Truck |
| Cleaning | Traffic control |
| | Boat |
| Wisk broom | Sonar depth finder |
| Wire brush | Increment borer |
| Flat bladed screwdriver | Survey equipment |
| Hand shovel | Safety Harness |
| Penetrating oil (WD-40, etc.) | Climbing equipment |
| Tools For Access | Dye penetrant |
| Ladders | Drone |
| Rope | Air Meter |
| Waders | Special Purpose Equipment |
| Machete or bush axe | |
| | |

Reach-All Approval and Comments

Comment



County: 58 - Marion, **Route:** 10024, **Log mile:** 22.650

Team Lead: Derek Yates, Inspection Date: 07/16/2024

| ELEMENTS | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|---|---------------------------------|-------|--------|--------|-----|-----|-----|
| 16 | Re Conc Top Flange | SF | 4311 | 4303 | 6 | 2 | 0 |
| 1080 | Delamination/Spall/Patched Area | SF | 8 | 0 | 6 | 2 | 0 |
| 510 | Wearing Surfaces | SF | 3842.5 | 3842.5 | 0 | 0 | 0 |
| (16) Element record added 2016-07-25. | | | | | | | |
| (1080-16) Element record added 7/20/2020 | | | | | | | |
| (510-16) Element record added 2016-07-25. | | | | | | | |
| 110 | Re Conc Opn Girder/Beam | LF | 318 | 311 | 1 | 6 | 0 |
| 1080 | Delamination/Spall/Patched Area | LF | 4 | 0 | 1 | 3 | 0 |
| 1090 | Exposed Rebar | LF | 3 | 0 | 0 | 3 | 0 |
| 1130 | Cracking (RC and Other) | LF | 19 | 19 | 0 | 0 | 0 |
| (110) Element record added 2016-07-25. | | | | | | | |
| (1080-110) Element record added 7/20/2020 | | | | | | | |
| (1090-110) | Element record added 7/20/2020 | | | | | | |
| 205 | Re Conc Column | EA | 6 | 2 | 4 | 0 | 0 |
| 1080 | Delamination/Spall/Patched Area | EA | 3 | 0 | 3 | 0 | 0 |
| 1090 | Exposed Rebar | EA | 1 | 0 | 1 | 0 | 0 |
| (205) Element record added 2016-07-25. | | | | | | | |
| (1080-205) Element record added 7/20/2020 | | | | | | | |
| (1090-205) Element record added 7/20/2022 | | | | | | | |
| 215 | Re Conc Abutment | LF | 83 | 83 | 0 | 0 | 0 |
| (215) Element record added 2016-07-25. | | | | | | | |
| 310 | Elastomeric Bearing | EA | 6 | 6 | 0 | 0 | 0 |
| (310) Element record added 2016-07-25. | | | | | | | |
| 331 | Re Conc Bridge Railing | LF | 212 | 212 | 0 | 0 | 0 |
| 1130 | Cracking (RC and Other) | LF | 15 | 15 | 0 | 0 | 0 |
| (331) Element record added 2016-07-25. | | | | | | | |
| | | | | | | | |