# **BRIDGE INSPECTION REPORT**

2800152 1960 **BRIDGE NUMBER** YEAR BUILT

3

TYPE SERVICE 5 5

Structure File Number

12

<u> 1. FLOOR</u>

DECK

DIST

Bridge Type 112

out/out 43.8 Deck Area 4,650 sqft

Left N NONE / Right N NONE

1 REINF CONCRT (PRESTRSD, PRECAST

**GEA 00044 0135** 

**LA DUE RES. 1.23 MIS 422** 

3 LATEX MODIFIED CONCRETE OVERLAY

2. WEARING SURFACE

4

4. MEDIAN 3. CURBS, SIDEWALKS AND WALKWAYS 6. DRAINAGE

1 OVER THE SIDE (W/O DRIP STRIP) 7 STL GUARDRL ON STL, CONCR, OR T 1 1 5. RAILING 2 4 3 COMPRESSION SEAL 7. EXPANSION JOINTS 8. SUMMARY SUPERSTRUCTURE 3 OTHER (CONCRETE RIGID FRAME) 1 3 Max Spans 40 9. ALIGNMENT 10. BEAMS/GIRDERS/SLAB 11. DIAPHRAGMS or CROSSFRAMES 12. JOISTS/STRINGERS 13. FLOOR BEAMS 14. FIOOR BEAM CONNECTIONS 15. VERTICALS 16. DIAGONALS 17. END POSTS 18. UPPER CHORD 19. LOWER CHORD 20. GUSSET PLATES 21. LATERAL BRACING 22. SWAY BRACING 1 24. BEARING DEVICES O OTHER 23. PORTALS 25. ARCH 26. ARCH COLUMNS or HANGERS Paint Date 1/10/1967 6 28. PROTECTIVE COATING SYSTEM U UNKNOWN 27. SPANDREL WALLS 29. PINS/HANGERS/HINGES 30. FATIGUE PRONE DETAIL (E, E') S 31. LIVE LOAD RESPONSE (E OR S) 32. SUMMARY 3 SOLID WALL SUBSTRUCTURE 2 3 SOLID WALL 2 34. ABUTMENT SEATS Abutment: ON PILING 33. ABUTMENTS 4 OPEN COLUMN 1 2 35. PIERS 36. PIER SEATS Piers: ON PILING 2 2 37. BACKWALLS 38. WINGWALLS Piers = 02 NN NN 2 3 40. <u>SCOUR (INSP TYPE - 1,2,3)</u> 39. FENDERS and DOLPHINS Spans = 3 Dive Date 10/28/2009 0 ?? OTHER ?? 4 4 41. SLOPE PROTECTION 42. SUMMARY **CULVERTS** N NONE/NOT APPLICABLE 43. GENERAL 44. ALIGNMENT <u>45. SHAPE</u> <u>46. SEAMS</u> Culvert Length 0 47. HEADWALLS or ENDWALLS 48. SCOUR (INSP TYPE - 1,2,3) 49. ABUTMENT 50. SUMMARY **CHANNEL** 1 3 5 RIP RAP (DUMPED ROCK OR ROCK) 52. PROTECTION 51. ALIGNMENT 8 SUIGHT CHANCE OVERTOPPING 4 1 53. HYDRAULIC OPENING 54. SUMMARY **APPROACHES** 2 1 2 BITUMINOUS 55. PAVEMENT 56. APPROACH SLABS 1 1 STEEL BEAM 57. GUARDRAIL 58. RELIEF JOINTS 3 4 Percent Legal = 150 60. SUMMARY 59. EMBANKMENT **GENERAL** 4 Maint Resp 1 OHIO TRAN DEPT 61. NAVIGATION LIGHTS 62. WARNING SIGNS Signs on = NMVC on = 9999.9 63. SIGN SUPPORTS 64. UTILITIES Under C = 065. VERTICAL CLEARANCE Under NC = 0 Ν 66. GENERAL APPRAISAL & OPERATIONAL STATUS 67. INSPECTED BY 68. REVIEWED BY 59487 SIGNED SIGNED PE Number PE Number Name MICHAEL SUTAK Name YOUSSEF SEIF

DECK

FLOOR: SEE ITEM #10 (SLAB). FLOOR IS 25-30% DETERIORATED.

WS: CRACKS SOME AS WIDE AS 1/8". 400 SF OF ASPHALT PATCHES.

15% DELAMINATED. 40 SF BREAKING UP. WS IS 25-30%

DETERIORATED. SEE ATTACHED PHOTO P6 DATED 12/08/11.

RAILING: VERTICAL CRACKS.

EXJTS: ASPHALT PATCHES, SOME BREAKING UP AT BOTH EXJTS.

### SUPERSTRUCTURE

SLAB: BOTH DECK EDGES ARE COMPLETELY SPALLED WITH 360

DEGREE REBAR EXPOSURE. SPALLED AREAS UNDER TRAFFIC

AS FOLLOWS: SPAN #1= 200 SF SPALLED, SPAN #2= 225 SF

SPALLED AND SPAN #3= 185 SF SPALLED. ALL THREE SPANS

HAVE LONG LENGTHS OF 360 DEGREE REBAR EXPOSED UNDER

TRAFFIC. SEE ATTACHED PHOTOS P1 - P5 DATED 11/8/10.

#### SUBSTRUCTURE

ABUTMENTS: SPALLS.

ABUTMENT SEATS: AREAS OF SEAT LOSS AT ENDS OF ABUTMENTS.

SEE ATTACHED PHOTOS P10 & P11 DATED 11/8/10.

PIERS: MINOR DELAMINATIONS AND SPALLS OF CAPS. RUSTING SECTION LOSS OF STEEL PIER COLUMNS NEAR WATERLINE.

SCOUR: BOTTOM OF ENTIRE REAR (SOUTH) ABUTMENT FOOTING IS

EXPOSED WITH 1' OF PILES EXPOSED. SCOUR HAS PUNCHED

THRU UNDER REAR ABUTMENT TO APPROACH FILL.

BACKWALLS: SPALLS. SOME DETERIORATED AREAS.

WINGWALLS: CRACKS. SPALLS. DETERIORATING CONCRETE.

SLOPE PROTECT: UNDERMINING OF BOTH ABUTMENTS EXPOSE SOME
PILES AT FORWARD ABUT AND ALL PILES AT REAR ABUT TO AIR &
WATER WHEN LAKE IS HIGH; SEE ATTACHED PHOTOS P9 AND P12
DATED 11/8/10.

## CHANNEL

PROTECTION: ALMOST ALL OF THE STONE HAS WASHED AWAY FROM BOTH ABUTMENTS.

MAXIMUM WATER DEPTH AT PIER 1 = 12' 6", PIER 2 = 12' 4". REFERENCE POINT IS BOTTOM OF PIER 2 CAP TO WATER = 3' 4".

## APPROACHES

PAVEMENT: CRACKS. ASPHALT PATCHES ALONG TOPS OF BOTH BACKWALLS WITH SOME BREAKING UP AREAS.

EMBANKMENT: EROSION AT ALL FOUR CORNERS WHICH EXTENDS INTO THE BERM AND PARTIALLY EXPOSES SOME GUARDRAIL POSTS.

EROSION ALONG NORTHWEST CAUSEWAY EMBANKMENT WITH SEVERAL WASHOUTS THAT EXTEND TO GUARDRAIL POSTS.

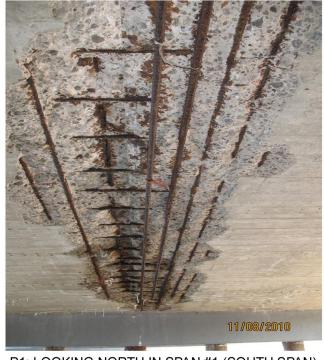
GENERAL

Structure File Number 2800152 BRIDGE NUMBER GEA 00044 0135 ON/UNDER

1

WARNING SIGNS: NO END MARKERS.

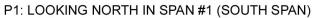
LAST DIVE INSPECTION AND REPORT IN 2009.



GEA-44-0135 SFN 2800152



P2: LOOKING EAST IN SPAN #1. NOTE 360 DEGREE REBAR EXPOSURE





P3: LOOKING NORTH AT MID-SPAN.



P5: TYPICAL EDGE SPALLING.



P4: LOOKING NORTH IN SPAN #3.

GEA-044-0135 SFN 2800152 La Due Reservoir 1.23 miles south of SR 422



P6: Wearing surface viewed facing north from south end of deck.



P9: FORWARD ABUTMENT UNDERMINED.





P10: FORWARD ABUTMENT SEAT LOSS UNDER NORTHWEST CORNER OF THE DECK.



P11: FORWARD ABUTMENT SEAT LOSS UNDER NORTHEAST CORNER OF THE DECK.



P12: REAR ABUTMENT UNDERMINED. A FEW AREAS OF THE UNDERMINING ARE STARTING TO GET BEHIND BACKWALL HERE.