STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION REPORT

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Bridge Type 322

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T. EXPANSION JOINTS ILTERNETION PAGE 3 B. SUMMARY 7 SUPERSTRUCTURE Writigens M 1 10. BEAMS/GIDER/SLAB 1 11. DIAPHRAGMS or CROSSFRAMES 1 12. JOISTS/STRINGERS 1 13. FLOOR BEAMS 14. FLOOR BEAM CONNECTIONS 1 12. JOISTS/STRINGERS 1 13. FLOOR BEAMS 14. FLOOR BEAM CONNECTIONS 1 12. JOISTS/STRINGERS 1 14. FLOOR BEAMS 16. DIAGONALS 1 12. JOINTER LERAL BRACING 1 19. LOWER CHORD 20. LOWER LATERAL BRACING 2 2. SWAY BRACING 2 21. TOP LATERAL BRACING 22. SWAY BRACING 2 2 30. FATIGUE PROTECTIVE COATING SYSTEM STRANDORMULE 7 20. FORTALS 28. PROTECTIVE COATING SYSTEM STRANDORMULE 7 30. FATIGUE PRONE CONNECTIONS 7 21. TOP LATERAL BRACING 28. PROTECTIVE COATING SYSTEM STRANDORMULE 7 30. FATIGUE PRONE CONNECTIONS 7 23. AUTINENTS 1 36. FIRINGERS STRANDORMULE 1 36. FIRINGERS STRANDORMULE 1 33. FLOOR BERSONSE S 32. SUMMARY <td< td=""><td>C 32" DEFLECTOR-TYPE PARAPET (NJ</td><td>1</td><td></td><td>1</td></td<>	C 32" DEFLECTOR-TYPE PARAPET (NJ	1		1
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11. DUPHRAGINS OF CROSS FRAMES 12. JUST STATUS 13. FLOOR BEAMS 14. FIOOR BEAM CONNECTIONS 14. FIOOR BEAMS 16. DIAGONALS 15. VERTICALS 16. DIAGONALS 17. END POSTS 18. TOP CHORD 20. LOWER CHORD 20. LOWER LATERAL BRACING 21. TOP LATERAL BRACING 22. SWAY BRACING 23. PORTALS 24. BEARING DEVICES ¹ ROMES 25. ARCH 28. ARCH COLUMNS or HANGERS 27. SPANDREL WALLS 28. PROTECTIVE COATING SYSTEM [*] CARTON ONES 28. PROTECTIVE COATING SYSTEM [*] CARTON ONES 2 31. LUE LOAD RESPONSE 32. SUMMARY 33. BUTHENTS 13. BOLTENT PROTECTIONS 33. BUTHENTS 13. BOLTENTS 34. ABUTMENTS 21. STUDEAMED PROTECTION 35. PIERS 1 36. PIER SEATS 1 37. BACKWALLS 1 38. BUTMENTS 1 39. FENDERS and DOLPHINS 1 30. FENDERS and DOLPHINS 1 31. LUE READ READ FOR THE OWNELS OF THE OWNELS 1 36. PIER Seat S 38. WINGWALLS 37. BACKWALLS 1 38. WINGWALLS 1 39. WINGWALLS 1 30. SUMMARY 2 31. LUE READ READ READ READ READ READ READ REA	9. ALIGNMENT Max Spans 60		10. BEAMS/GIRDERS/SLAB	1
15. VERTICALS 16. DIAGONALS 17. END POSTS 18. TOP CHORD 19. LOWER CHORD 10. LOWER LATERAL BRACING 11. TOP LATERAL BRACING 22. SWAY BRACING 22. SWAY BRACING 11. TOP LATERAL BRACING 22. SWAY BRACING 24. BEARING DEVICES ? MODULES 2 23. PORTALS 24. BEARING DEVICES ? MODULES 2 25. ARCH 26. ARCH COLUMNS or HANGERS 2 27. SPANDREL WALLS 28. PROTECTIVE COATING SYSTEM 7 29. PINS/HANGERS/HINGES 30. FATIGUE PRONE CONNECTIONS 7 31. LIVE LOAD RESPONSE S 32. SUMMARY 7 33. ABUTMENTS * STRUCOVER 1 35. PIERS 1 35. PIERS 1 36. PIER SEATS 1 1 37. BACKWALLS 1 38. WINGWALLS 1 39. FENDERS and DOLPHINS 14. SLOPE PROTECTION 2 1 41. SLOPE PROTERTS 44. ALIGNMENT 6 6 43. GENERAL MODULATION LATOLAND 44. SCOUR 1 43. GENERAL MODULATION LATOLAND 44. SCOUR 1 43. GENERAL MODULATION LATOLAND 44. SCOUR 1 44. ALIGNMENT 46. SCOUR 1 1 50. SUMMARY 48. SCOUR 1 1 51. ALIGNMENT <td>11. DIAPHRAGMS or CROSSFRAMES</td> <td>1</td> <td>12. JOISTS/STRINGERS</td> <td></td>	11. DIAPHRAGMS or CROSSFRAMES	1	12. JOISTS/STRINGERS	
17. END POSTS 18. TOP CHORD 19. LOWER CHORD 20. LOWER LATERAL BRACING 19. LOWER CHORD 20. LOWER LATERAL BRACING 21. TOP LATERAL BRACING 22. SWAY BRACING 21. TOP LATERAL BRACING 22. SWAY BRACING 22. SWAY BRACING 22. SWAY BRACING 23. PORTALS 24. BEARING DEVICES ² MORENS 22. SWAY BRACING 22. SWAY BRACING 23. ARCH 24. BEARING DEVICES ² MORENS 24. BEARING DEVICES ² MORENS 7 29. PINSHANGERSHINGES 30. FATIGUE PRONE CONNECTIONS 7 30. ABUTMENTS * STREAMED PLE (BROLE SOUTHES) 2 31. LIVE LOAD RESPONSE S 32. SUMMARY 7 SUBSTRUCTURE * STREAMED PLE (BROLE SOUTHES) 2 34. ABUTMENT SETS MORENCY (PLING 1 32. ABUTMENTS * STREAMED PLE (BROLE SOUTHES) 2 34. ABUTMENT SETS (STREAMED) 1 33. ABUTMENTS * STREAMED PLE (STREAMED	13. FLOOR BEAMS	_	14. FIOOR BEAM CONNECTIONS	
19. LOWER CHORD 20. LOWER LATERAL BRACING 1 21. TOP LATERAL BRACING 22. SWAY BRACING 2 23. PORTALS 24. BEARING DEVICES ³ ROUTES 2 25. ARCH 24. BEARING DEVICES ³ ROUTES 2 25. ARCH 28. PROTECTIVE COATING SYSTEM 1 27. SPANDREL WALLS 28. PROTECTIVE COATING SYSTEM 1 29. PINSHANGERS/HINGES 30. FATIGUE PRONE CONNECTIONS 7 31. LIVE LOAD RESPONSE S 32. SUMMARY 7 32. BURGAMELONEL SINCE 2 34. ABUTMENT SEATS SHORE NOTED 1 33. ABUTMENTS * STUGGAMELONPLES 1 36. PIERS 1 36. PIERS 1 36. PIER SHORE 2 1 37. BACKWALLS 1 38. WINGWALLS 1 38. OPE PROTECTION STUMP AN ELAMONTAL STUDIOS 1 2 39. FENDERS and DOLPHINS BARPAN ELAMONTAL STUDIOS 44. ALIGNMENT 1 43. GENERAL MUDOWARD ANT LOWS 44. SCOUR 1 43. GENERAL MUDOWARD ANT LOWS 48. SCOUR 1 50. SUMMARY 6 COUVERTS 1 43. GENERAL MUDOWARD ANT LOWS 1 1 44. ALIGNMENT 1 62. PROTECTION 1 51	15. VERTICALS	_	16. DIAGONALS	
21. TOP LATERAL BRACING 22. SWAY BRACING 2 23. PORTALS 24. BEARING DEVICES ? ROOMS 2 26. ARCH 26. ARCH COLUMNS of HANGERS 2 27. SPANDREL WALLS 28. ARCH COLUMNS of HANGERS 7 29. PINSHANGERS/HINGES 30. FATIGUE PRONE CONNECTIONS 7 31. LIVE LOAD RESPONSE S 32. SUMMARY 7 SUBSTRUCTURE \$1000000000000000000000000000000000000	17. END POSTS		18. TOP CHORD	
23. PORTALS 24. BEARING DEVICES ^{2. MOCKENG} 2 25. ARCH 26. ARCH COLUMNS of HANGERS 2 27. SPANDREL WALLS 28. PROTECTIVE COATING SYSTEM ⁵ PART SYSTEM OF 29. PINS/HANGERS/HINGES 30. FATIGUE PRONE CONNECTIONS 7 31. LIVE LOAD RESPONSE S 32. SUMMARY 7 SUBSTRUCTURE 0 STUD-CAPPED PLE (SMOLE ROW PLES) 2 34. ABUTMENT S EATS MORE ON PLES) 1 35. PIERS 1 36. PIER SEATS ************************************	19. LOWER CHORD		20. LOWER LATERAL BRACING	
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27. SPANDREL WALLS 28. PROTECTIVE COATING SYSTEM 'S PART SYSTEMOZE 7 29. PINS/HANGERS/HINGES 30. FATIGUE PRONE CONNECTIONS 7 31. LIVE LOAD RESPONSE S 32. SUMMARY 7 SUBSTRUCTURE 31. BUC ADPED PLE (SINGLE ROW PLED) 2 34. ABUTMENTS SEATS SUMMER ON PLED) 1 33. ABUTMENTS * STUB-CAMPED PLE (SINGLE ROW PLED) 2 34. ABUTMENT SEATS SUMMER ON PLED) 1 33. ABUTMENTS * STUB-CAMPED PLE (SINGLE ROW PLED) 1 36. PIER SEATS * ON COMPLAND 1 37. BACKWALLS 1 38. PIER SEATS * ON COMPLAND 1 1 39. FENDERS and DOLPHINS Server - 4 40. SCOUR 2 1 41. SLOPE PROTECTION * MERAPCIOLAMPED ROCO 1 42. SUMMARY 6 CULVENTS 1 38. PIER - GLINN N 40. SCOUR 2 1 43. GENERAL 44. ALIGNMENT 44. ALIGNMENT 44. ALIGNMENT 44. ALIGNMENT 45. SHAPE 46. SEAMS 46. SCOUR 47. HEADWAILS OF ENDWALLS 48. SCOUR 48. SCOUR 48. SCOUR 48. SCOUR 49. 50. SUMMARY 50. SUMMERNENT 50. SUMMARY	23. PORTALS		24. BEARING DEVICES 2 ROCKERS	2
27. SPANDREL WALLS 28. PROTECTIVE COATING SYSTEM PANT SYSTEM 02 7 29. PINS/HANGERS/HINGES 30. FATIGUE PRONE CONNECTIONS 7 31. LIVE LOAD RESPONSE S 32. SUMMARY 7 33. ABUTMENTS * STUR-CAPPED PLF (BRUE FROM PLFS) 2 34. ABUTMENT SEATS ANAMENCY PLFS) 1 35. PIERS 1 36. PIER SEATS * STUR-CAPPED PLF (BRUE FROM PLFS) 1 37. BACKWALLS 1 38. WINGWALLS 1 39. FENDERS and DOLPHINS 1 38. WINGWALLS 1 31. SLOPE PROTECTION * APP FOAP (UAPPED RODO) 1 42. SUMMARY 0 41. SLOPE PROTECTION * APP FOAP (UAPPED RODO) 1 42. SUMMARY 6 CULVERTS 44. ALIGNMENT 46. SEAMS 44. ALIGNMENT 1 43. GENERAL * NOVENUT APPLICABLE 44. ALIGNMENT 1 43. GENERAL * SO. SUMMARY 8 APPROACHES 2 1 56. APPROACH SLABS 1 51. ALIGNMENT 1 52. PROTECTION 2 STORE 1 53. WATERWAY ADEQUACY 1 54. SUMMARY 8 APPROACHES 2 1 56. APPROACH SLABS 1 51. ALIGNMENT 1 56. APPROACH SLABS 1	25. ARCH			
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DATE 11/14/2006

1 1 1 1 1 N N N DATE 2/26/2007 SURVEY

1

DECK	
22011	FLOOR: A FEW TRANSVERSE CRACKS. FLOOR < 1% DET.
	WS: CRACKS. WS < 1% DET.
	EXJTS: FINISH EXJT BACKWALL ARMOR IS GOUGED AND CRACKED. A 6 INCH LONG PIECE OF THIS ARMOR IS MISSING. SEE WORK ORDERS 620 2007*5 AND 620 2007G 17. SEE ATTACHED PHOTOS #1 THRU #3 DATED 10/28/04.
SUPERSTRUCTUF	RE
	BEAMS: RUSTED SECTION LOSS NEAR ABUTMENTS.
	CROSSFRAMES: ENDFRAME RUSTED SECTION LOSS. 1.25 INCH LONG CRACK IN WELD THAT JOINS DIAGONAL ANGLE OF FINISH ABUTMENT ENDFRAME #4 TO BEAM #4.
	BEARINGS: RUSTED SECTION LOSS. START ABUTMENT ROCKERS #2, #3, #4, AND #5 ARE LOOSE. FINISH ABUTMENT ROCKERS #1, #2, #3, #4, AND #5 ARE LOOSE.
	PAINT: FADED PAINT. 2% RUST. PAINT IS 1-5% DET.
	LIVE LOAD RESPONSE: SOME VERTICAL MOVEMENT (UNDER TRUCK LOADING) OF BEAM ENDS ABOVE ALL LOOSE ROCKERS NOTED IN ITEM #24 (BEARINGS).
SUBSTRUCTURE	ABUTMENTS: A FEW DELAMINATIONS. A FEW SPALLS.
	PIERS: RUSTING SECTION LOSS OF STEEL AT WATERLINE.
	SCOUR: SEE ATTACHED DIVE REPORT DATED 10/28/04; NO SIGNIFICANT CHANGE.
APPROACHES	BOTH APPROACHES ARE 1/4 INCH HIGHER THAN DECK AT EXJTS.
GENERAL	DIVER INSPECTED PIERS ON 10/28/04; SEE ATTACHED DIVE REPORT
	DATED 10/28/04. INSPECTION FROM A BOAT BY DAVE EVERETT AND BRIAN CULLY ON 8/30/06.

GEA-422-0986R SFN-2801744 La Due Reservoir *TAKEN BY KJB 10-28-2004*

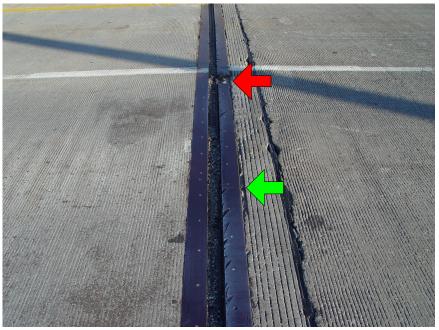


PHOTO #1

FINISH JOINT APPROACH SLAB DECK ARMOR IS BROKEN AT RED ARROW, AND CRACKED AT THE GREEN ARROW. THIS IS IN THE #2 LANE. NOTE SEVERAL GOUGES TO APPROACH SLAB SIDE OF DECK ARMOR. DECK SIDE ARMOR IS 3/8" LOWER THAN SLAB SIDE IN PLACES.



PHOTO #2 CLOSE UP OF GREEN ARROW ABOVE.

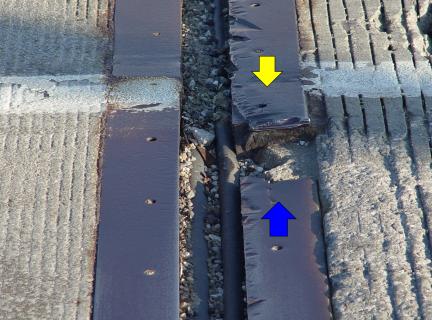


PHOTO #3 CLOSE UP OF RED ARROW ABOVE. BLUE ARROW SHOW THAT THIS SIDE OF ARMOR IS A ½" LOWER THEN YELLOW SIDE OF ARMOR.

OCTOBER 28, 2004

BRIDGE No. GEA-422-0986R

Structure # 2801744

La Due Resevoir "EASTBOUND"

carrying SR-44 GEAUGA COUNTY

UNDERWATER INSPECTION REPORT

on CONCRETE COLUMN PIERS

Prepared for: ODOT D-12



Prepared by: Specialty Diving 44084 Parker Blvd. Hammond, LA 70403 (985) 542-8770 sdila@sdive.com BRIDGE No. GEA-422-0986R

Structure # 2801744

La Due Resevoir "EASTBOUND"

SR-44, GEAUGA COUNTY

OCTOBER 28, 2004

CONTENTS

t

I.	Summary	3
II.	Inspection Results	4
III	DRAWINGS	5 & 6
]		
V.	PHOTOGRAPHS	7 & 8

Ohio Department of Transportation District 12

Underwater Bridge / Culvert Inspection Survey Report

Summary

BRIDGE GEA -422-0986R

Date of this Inspection: 10/28/04

By: Specialty Diving (SDI)

Inspection Standard(s): NBIS, OSHA, ADC, SDI

Structure Type:

Number of Columns per Pier . Inspection Equipment Used (1):

(2):

Elements Cleaned:

Water Flow Velocity: .

Soil Type:

Inspection Mode:

Inspection Notation:

Inspection Team Members:

Hazard Analysis/ Assessment:

Open Column Piers

THREE, Concrete

Surface supplied Diving Helmet , with Radio Communication Localized area(s) where required .1 fps

Streambed comprised of "hard-packed" small and medium stone. 2' visibility.

Dive

One Steel-Jacketted Drilled Shaft, Located on South side of each Pier.

3- Supervisor, Diver, Stand-by Diver

NH,... Boat traffic

Hazard Analysis/ Assessment: CS-Confined space SP-Septic conditions unknown BU-Bottom condition unknown PD-Potential underwater debris DE-Possible diver entaglement LA-Limited or no free access to surface SH-Suction hazard HF-High flows or currents (4 fps+)

NH-No assessment hazards

Ohio Department of Transportation District 12

Underwater Bridge / Culvert Inspection Survey Report

BRIDGE No. GEA-422-0986R

Structure # 2801744

La Due Resevoir "EASTBOUND" Date of this Inspection: 10/28/04

By: Specialty Diving (SDI)

Inspection Standard(s): NBIS, OSHA, ADC, SDI

Pier 1 : Closest to West Abutment

13 feet water depth, no scour

three concrete , round COLUMNS that exhibit light scaling, GOOD CONDITION.

One "steel jacketed concrete drilled shaft" beyond south edge of pier : Exhibits typical light surface corrosion

PIER 2

14 feet water depth, no scour

three concrete , round COLUMNS that exhibit light scaling, GOOD CONDITION.

One "steel jacketed concrete drilled shaft" beyond south edge of pier : Exhibits typical light surface corrosion

PIER 3

14' water depth Light scaling, Good Condition

One "steel jacketed concrete drilled shaft" beyond south edge of pier : Exhibits typical light surface corrosion

that

BRIDGE No. GEA-422-0986R

Structure # 2801744

OCTOBER 28, 2004

La Due Resevoir "EASTBOUND"

..... Inspection Results.....

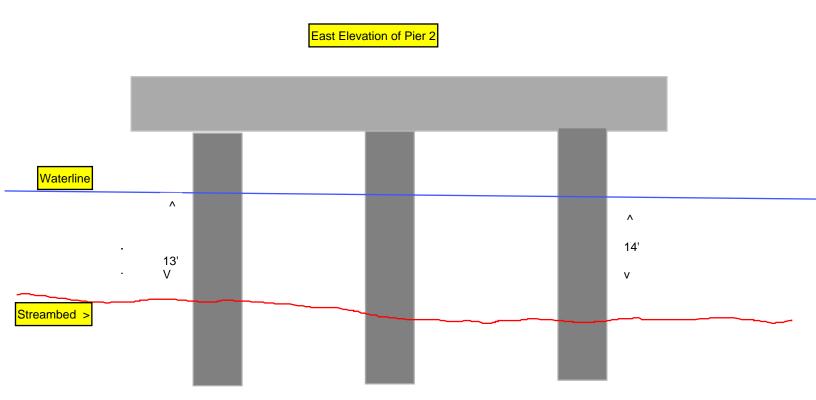
All Concrete Columns are in Good Condition No spalls or Cracks noted.

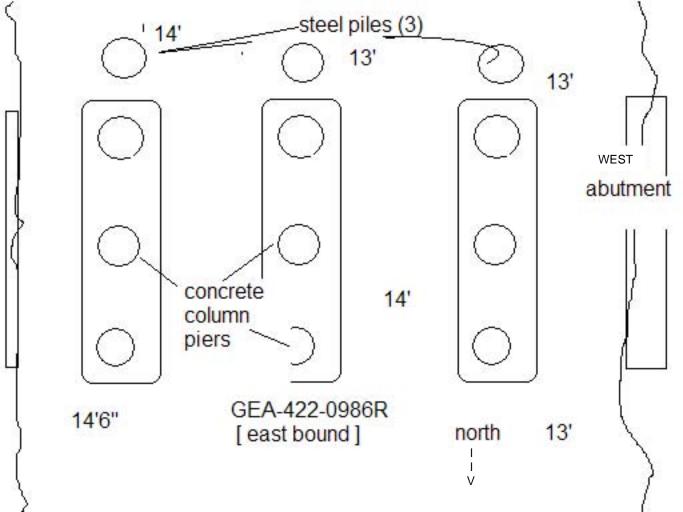
Water depth ranges from 13' to 14'6" at Piers.

Streambed is combination "Hard-packed" Sand and small to medium Stone.

There is "Rip-Rap" protection along both embankments.

At the time of Inspection , the distance from Waterline to "top of Pier Cap" was: 5' 10" .





East Elevation of : < "Eastbound" on Left and "Westbound" on right >

Antonian

Ravenna Charden EET 1/2 Bitt

in.

< 0986R shows abutment ,Pier3,2,1 then west abutment.

