# HistoricBridges.org - National Bridge Inventory Data Sheet

**2013 Inventory**

The National Bridge Inventory contains data submitted by state transportion departments to the Federal Highway Administration in coded format.
Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

## Basic Information

| | | | | | |
|---|---|---|---|---|---|
| Ohio [39] | Lorain County [093] | Lorain [44856] | 0.1 MILE EAST OF SR 57 | 41-28-07 = 41.468611 | 082-10-39 = -82.177500 |

| | | | | | |
|---|---|---|---|---|---|
| 4700813 | Highway agency district 3 | Owner: State Highway Agency [01] | Maintenance responsibility: State Highway Agency [01] | | |
| Route: 6 | | STATE ROUTE 6 | Toll: On free road [3] | Features intersected: OVER CSX RR & BLACK RIVE | |

| | | | | | |
|---|---|---|---|---|---|
| Design - main: Steel [3] | Design - approach: Steel [3] | Kilometerpoint: 1557 km = 965.3 mi | | | |
| 1 | Movable - Bascule [16] | 11 | Girder and floorbeam system [03] | Year built: 1939 | Year reconstructed: 1988 |
| | | | | Skew angle: 0 | Structure Flared: |
| | | | | Historical significance: Bridge is eligible for the NRHP. [2] | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Total length: 321 m = 1053.2 ft | Length of maximum span: 100.6 m = 330.1 ft | Deck width, out-to-out: 18.9 m = 62.0 ft | Bridge roadway width, curb-to-curb: 14.3 m = 46.9 ft | | | | |
| Inventory Route, Total Horizontal Clearance: 6.8 m = 22.3 ft | Curb or sidewalk width - left: 1.9 m = 6.2 ft | Curb or sidewalk width - right: 1.9 m = 6.2 ft | | | | | |
| Deck structure type: Open Grating [3] | | | | | | | |
| Type of wearing surface: Other [9] | | | | | | | |
| Deck protection: | | | | | | | |
| Type of membrane/wearing surface: | | | | | | | |

## Weight Limits

| | | | | | |
|---|---|---|---|---|---|
| Bypass, detour length | Method to determine inventory rating: Load Factor(LF) [1] | | Inventory rating: 14.3 metric ton = 15.7 tons | | |
| 0.2 km = 0.1 mi | Method to determine operating rating: Load Factor(LF) [1] | | Operating rating: 19.8 metric ton = 21.8 tons | | |
| | Bridge posting: Equal to or above legal loads [5] | | Design Load: MS 13.5 / HS 15 [3] | | |

## Functional Details

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Average Daily Traffic | 13580 | Average daily truck traffi | 3 % | Year | 2011 | Future average daily traffic | 15976 |
| Year | 2033 | | | | | | |
| Road classification | Other Principal Arterial (Urban) [14] | Lanes on structure | 4 | Approach roadway width | 14.3 m = 46.9 ft | | |
| Type of service on bridge | Highway [1] | Direction of traffic | 2 - way traffic [2] | Bridge median | | | |
| Parallel structure designation | No parallel structure exists. [N] | | | | | | |
| Type of service under bridge | Highway-waterway-railroad [ | Lanes under structure | 2 | Navigation control | Navigation control on waterway (bridge permit required). [1] | | |
| Navigation vertical clearanc | 10.1 m = 33.1 ft | Navigation horizontal clearance | 89.9 m = 295.0 ft | | | | |
| Minimum navigation vertical clearance, vertical lift bridge | | Minimum vertical clearance over bridge roadway | 99.99 m = 328.1 ft | | | | |
| Minimum lateral underclearance reference feature | Railroad beneath structure [R] | | | | | | |
| Minimum lateral underclearance on right | 2.1 m = 6.9 ft | Minimum lateral underclearance on left | 0 = N/A | | | | |
| Minimum Vertical Underclearance | 4.34 m = 14.2 ft | Minimum vertical underclearance reference feature | Railroad beneath structure [R] | | | | |
| Appraisal ratings - underclearances | Basically intolerable requiring high priority of corrrective action [3] | | | | | | |

## Repair and Replacement Plans

Type of work to be performed

Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]

| | | | |
|---|---|---|---|
| Work done by | Work to be done by contract [1] | | |
| Bridge improvement cost | $4,619,000 | Roadway improvement cost | $462,000 |
| Length of structure improvement | 399.9 m = 1312.1 ft | Total project cost | $5,297,000 |
| Year of improvement cost estimate | 2005 | | |
| Border bridge - state | | Border bridge - percent responsibility of other state | |
| Border bridge - structure number | | | |

## Inspection and Sufficiency

| | | | |
|---|---|---|---|
| Structure status | Open, no restriction [A] | Appraisal ratings - structural | Basically intolerable requiring high priority of corrrective action [3] |
| Condition ratings - superstructure | Fair [5] | Appraisal ratings - roadway alignment | Equal to present minimum criteria [6] |
| Condition ratings - substructure | Fair [5] | Appraisal ratings - deck geometry | Basically intolerable requiring high priority of replacement [2] |
| Condition ratings - deck | Fair [5] | | |

| | |
|---|---|
| Scour | Bridge foundations determined to be stable for the assessed or calculated scour condition. [8] |
| Channel and channel protection | Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7] |

| | | | |
|---|---|---|---|
| Appraisal ratings - water adequacy | Somewhat better than minimum adequacy to tolerate being left in place as is [5] | Status evaluation | Functionally obsolete [2] |
| Pier or abutment protection | In place and functioning [2] | Sufficiency rating | 32 |

| | |
|---|---|
| Culverts | Not applicable. Used if structure is not a culvert. [N] |
| Traffic safety features - railings | |
| Traffic safety features - transitions | |
| Traffic safety features - approach guardrail | |
| Traffic safety features - approach guardrail ends | |

| | | | | |
|---|---|---|---|---|
| Inspection date | October 2012 [1012] | Designated inspection frequency | 12 | Months |

| | | | |
|---|---|---|---|
| Underwater inspection | Not needed [N] | Underwater inspection date | |
| Fracture critical inspection | Every two years [Y24] | Fracture critical inspection date | October 2012 [1012] |
| Other special inspection | Not needed [N] | Other special inspection date | |

District: **03** County **LORAIN**
(101) Location: **0.1 MILE EAST OF SR 57** (102) Facility Carried: **STATE ROUTE 6**
(2)FIPS Code: **LORAIN** (103) Route On Bridge: **STATE (ODOT)** (104) Route Under Bridge: **MUNICIPAL**
(9) Direction of Traffic: **2-WAY TRAFFIC** (10) Temporary: **N** (11)Truck Network: **N** (12)Parallel: **N**
(95) Insp: **OHIO TRAN DEPT** (96) Maint: **OHIO TRAN DEPT** (97) Routine: **CITY/LOC** (100) Type Serv: (On): **HIGHWAY** (Under): **HIGHWAY/WATERWAY/RAI**

## Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **U.S. NUMBERED HIGHWAY**
Route No.: **00006** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **OVER CSX RR & BLACK RIVER**
(5) County: **LOR** Mileage: **0967** Special Desig:
(6) Avg. Daily Traffic(ADT): **13,580** (7) ADT Year: **2011**
(8) Truck Traf: **440** (14) NHS: **YES - N** (15) Corridor: **N**
(16) Functional Class: **OTHER PRINCIPAL ARTERIAL-URBAN** (19) Strahnt: **Not Applicable**

## Intersected Route Data

(22) Route On/Under: **UNDER** Hwy Sys: **MUNICIPAL STREET**
Route No.: **RVFRT** Dir: Des: **8** Pref:
(23) Feature Intersected: **UNDER LOR-6-0967(ERIE AV)**
(24) County: **LOR** Mileage: **PLCE** Special Desig:
(25) Avg. Daily Traffic(ADT): **400** (26) ADT Year: **1900**
(27) Truck Traf: **0** (28) NHS: **NO - X** (29) Corridor: **N**
(30) Functional Class: **LOCAL ROAD-URBAN** (36) Strahnt: **Not Applicable**

## Clearance On the Bridge

(154) Min Hriz on Bridge: NC: **22.3** Ft Card: **22.3** Ft
(155) Prac Max Vert On Brg: **9999.9** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **9999.9** Ft
(80) Min Latl Clr: NC: **0.0 / 0.0** Ft Card: **0.0 / 0.0** Ft
(81) Vrt Clr Lft: **0.0** Ft

## Structure Information

(38) Bypass Length: **01** Miles
(39) Latitude: **41 Deg 28.1 Min** Longitude: **82 Deg 10.7 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1939** (42) Major Rehabilitation: **01/01/1988**
(43) No. Lanes On: **4** No. Lanes Under: **2**
(44) Horiz Curve: **05 Deg. D00M Min.** (45) Skew: **0** Deg
(49) App. Rdw Width: **47** Ft (50) Brg. Rdw Width: **47.0** Ft
(51) Deck Width: **62.0** Ft Deck Area: **65284** Sq. Ft
(52) Median Type: **NONE / NON BARRIE / NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **6** Ft (right) **6** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **OTHER** Type: **OTHER**
(Right) Matl: **OTHER** Type: **OTHER**
(56) Flared: **N** (57) Composite:
(58) Railing: **STEEL POST & STEEL PANEL (DECORATIVE)**
(59) Deck Drainage: **SCUPPERS & DWNSPTS**
(60) Deck Type: **STEEL GRID - OPEN**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(62) Wearing Surface: **SUPERPLASTICIZED DENSE CONCRETE (SDC) OV**
Thickness: **1.0** in (119) Date of Wearing Surface: **08/23/1988**
Slope Protection: **?? OTHER ??**

(63) Main Spans Number: **1** Type: **STEEL / TRUSS / MOVABLE - BASC**
Approach Spans Number: **11** Type: **STEEL / GIRDER / DECK**
Total Spans: **12** (65) Max Span: **330** Ft (66) Overall Leng: **1053** Ft

| (70) Substructure | (71) Foundation and Scour Information | |
|---|---|---|
| Abut-Rear Matl: **CONCRETE** | Type: **GRAVITY** | Fnd: **SPREAD FOOTING** |
| Abut-Fwd Matl: **CONCRETE** | Type: **GRAVITY** | Fnd: **SPREAD FOOTING** |
| Pier-Pred Matl: **STEEL** | Type: **CAPPED COLUMN** | Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)** |
| Pier-Other Matl: **STONE** | Type: **OTHER** | Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)** |
| Pier-Other Matl: **CONCRETE** | Type: **STUB GRAVITY** | Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)** |
| No of Piers Predominate: **05** | Other: **02** | Other: **04** |

(86) Stream Velocity: **UUU** (74) Scour: **STABLE: EVAL SCOUR ABOVE TOP OF FOOTING**
(189) Dive: **N Freq: 0** Probe: **N** Freq: **0** (75) Chan Prot: **SHEET PILING**
(189) Date of last Dive Insp: (152) Drainage Area: **UUU** Sq Mi

## Clearance Under the Bridge

(156) Min. Horiz Under Clear: NC: **0.0** Ft Card: **24.0** Ft
(157) Prac Max Vrt Under Clear: **14.2** Ft
(77) Min Vert Under Clear: NC: **0.0** Ft Card: **14.2** Ft
(78) Min Lat Under Clear: NC: **0.0 / 0.0** Ft Card: **0.0 / 7.0** Ft

## Load Rating Information

(48) Design Load: **HS/15**
(83) Operating: **22** Ton
Inventory: **16** Ton
Ohio Percent of Legal Load **125**
Year of Rating: **1988**
(84) Analysis: **COMBINATION OF METHODS**
(85) Rate Soft: **NO SOFTWARE USED** Analyzed by:
Analysis on Bars: **NOT ON BARS [DEFAULT]**

## (88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **5**
(89) Approach Alignment **6**
Calc Gen Appraisal: **3**
Calc Deck Geometry: **2**
Calc Underclearance: **3**

## Approach Information

(109) Approach Guardrail: **STEEL BEAM**
(110) Approach Pavement: **BITUMINOUS** (111) Grade: **FAIR**

## Culvert Information

(131) Culvert Type: **NONE/NOT APPLICBLE** (127) Length: **0.0** Ft
(129) Depth of Fill: **0.0** Ft (130) Headwalls: **NONE**

## General Information

(121) Main Member **RIVETED BUILT-UP STEEL** (122) Moment Plate: **NONE**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **ROCKERS/NONE**
(126) Navigation: **Control- Y** Vert Clr: **33.0** Ft Horiz Clear:: **295.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **Y** Freq: **24** Date: **2013-10-15**
(138) Long Member: **THREE OR MORE TRUSSES (WELDED)** (135) Hinges: **PINS, PIN PLATES**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing: **NONE**
Railing: **UNKNOWN**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN** Paint: **PAINT SYSTEM OZEU**
Bridge Dedicated Name: **CHARLES BERRY**

## General Information (Continued)

(---) Hist Significance: **NON-REGISTERED HISTORIC BRIDGE** (69) NBIS: **Y**
(---) Hist Builder: **WILBUR WATSON & ASSOCIATES** Hist Build Year: **1939**
(69) Hist Type:
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

## Proposed Improvements

(90) Type Work: **35 - BRG REHAB--GEN DECLINE/INADEQ STRENGTH**
(90) Length: Ft
(90) Bridge Cost ($1000s): **0**
(90) Roadway Cost ($1000s): **0**
(90) Total Project Cost ($1000s): **0** (90) Year:
(91) Future ADT (On Bridge): **0** (92) Year of Future ADT: **2033**

## Programming Info

PID Number: **15837**
PID Status: **PROGRAM**
PID Date: **02/04/1999**

## Original Plans Information

(142) Fabricator:
(143) Contractor:
(144) Ohio Original Construction Project No.:
(---) Microfilm Reel:
(151) Standard Drawing:
Aperture Cards: Orig: **Y** Repair: **Y** Fabr: **N**
Plan Information Available: **1PLAN INFORMATION AVAILABLE**

(153) Repair Projects

| | | |
|---|---|---|
| 1. **/ 020** | 2. **860897 / 004** | 3. **/ MMM** |
| 4. **/ 020** | 5. **/** | 6. **/ 022** |
| 7. **/ 020** | 8. **/ 008** | 9. **/ 011** |
| 10. **/ 011** | | |

## Inspection Summary

| | |
|---|---|
| (I-8) Deck: | **5** |
| (I-32) Superstructure: | **5** |
| (I-42) Substructure: | **5** |
| (I-50) Culvert: | |
| (I-54) Channel: | **7** |
| (I-60) Approaches: | **6** |
| (I-66) General Appraisial: | **5** |
| (I-66) Operational Status: | **A** |
| Inspection Date: | **10/10/2013** |
| (94) Desig Insp Freq: | **12 Months** |

## (I-69) Survey Items

| | |
|---|---|
| Railings: | **0 DOES NOT MEET CURRENT STANDARDS** |
| Transitions: | **0 DOES NOT MEET CURRENT STANDARDS** |
| Guardrail: | **0 DOES NOT MEET CURRENT STANDARDS** |
| Rail Ends: | **0 DOES NOT MEET CURRENT STANDARDS** |
| In Depth: | **1 MEETS CURRENT STANDARDS** |
| Fracture Critical: | **0 DOES NOT MEET CURRENT STANDARDS** |
| Scour Critical: | **N NONE N/A** |
| Critical Findings: | **N NONE N/A** |
| Insp. Update Date: | **12/11/2013** |

## Utilities

| | |
|---|---|
| (46) Electric: | **U** |
| Gas: | **U** |
| Sanitary Sewer: | **U** |
| Telephone: | **U** |
| TV Cable: | **U** |
| Water: | **U** |
| Other: | **U** |

## Special Features

| | |
|---|---|
| (161) Lighting: | **N** |
| Fencing: | **N** |
| Glare-Screen: | **N** |
| Splash-Guard: | **N** |
| Catwalks: | **N** |
| Other-Feat: | **U** |
| (184) Signs-on: | **Y** |
| Signs-Under: | **Y** |
| (162) Fence-Ht: | **0.0** Ft |
| (163) Noise Barr: | **N** |

SFNs Replacing this retired bridge: **-**
SFNs That where replaced by this bridge: **-**
This bridge was retired and copied to:
The bridge was copied from:

INV Field Bridge Marker: **LOR-00006-0967 -**
INT Field Bridge Marker: **LOR-RVFRT-PLCE -**

## PONTIS CoRe elements and Condition States

| Elem No. | CoRe Element Description | Total Quantity | Unit Meas. | Condition State Percents(*) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 5 |
| 28 | STEEL DECK - OPEN GRID | 1 | EA | 0 | 0 | 0 | 0 | 0 |
| 215 | REINFORCED CONC ABUTMENT | 124 | LF | 0 | 0 | 0 | 0 | 0 |
| 304 | OPEN EXPANSION JOINT | 124 | LF | 0 | 0 | 0 | 0 | 0 |
| 321 | REINFORCED CONCRETE APPROACH SLAB | 2 | EA | 0 | 0 | 0 | 0 | 0 |
| 330 | METAL BRIDGE RAILING | 2104 | LF | 0 | 0 | 0 | 0 | 0 |

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

# BRIDGE INSPECTION REPORT

BR-86 REV 02-95

4 7 0 0 8 1 3
1 Structure File Number 7

Bridge Number **LOR** (CO) **00006** (ROUTE) **0967** (UNIT) **LORAIN**

**Date Built 07/01/1939 - 1988**

District **03** Bridge Type **STEEL/TRUSS/MOVABLE - BASC** Type Service **1** **18 OVER CSX RR & BLACK RIVER** **LOR**

| | | | | | |
|---|---|---|---|---|---|
| **DECK** Out/Out 62.0 | | | 2. Wearing Surface THCK = 1.0 A-SUPERPLASTICIZED DENSE 41 | 2 | 2 |
| 1. Floor 5-STEEL GRID - OPEN 8 | 2 | | | | |
| 3. Curbs, Sidewalks, Walkways 0-OTHER 0-OTHER 9 | 2 | | 4. Median W.S. Date = 08/23/1988 42 | 1 | |
| 5. Railing 6-STEEL POST & STEEL PAN 10 | 2 | | 6. Drainage 3-SCUPPERS & DWNSPTS 43 | 2 | 2 |
| 7. Expansion Joints 2-SLIDING METAL PLATE AN 11 | 2 | | **8. Summary** 44 | 5 | |
| **SUPERSTRUCTURE** MAX.SPAN=330 | | | | | |
| 9. Alignment 12 | 1 | | 10. Beams/Girders/Slab 2-RIVETED BUILT-UP STEEL 45 | 2 | 2 |
| TOT.LGTH=1053 | | | | | |
| 11. Diaphragms or Crossframes 13 | 1 | | 12. Joists/Stringers 46 | 2 | 2 |
| 13. Floor Beams 14 | 3 | | 14. Floor Beam Connections 47 | 1 | 1 |
| 15. Verticals 15 | 2 | | 16. Diagonals 48 | 2 | 2 |
| 17. End Posts 16 | | | 18. Top Chord 49 | 1 | 1 |
| 19. Lower Chord 17 | 2 | | 20. Lower Lateral Bracing 50 | | |
| 21. Top Lateral Bracing 18 | | | 22. Sway Bracing 51 | | |
| 23. Portals 19 | | | 24. Bearing Devices 2-ROCKERS N-NONE 52 | 2 | 2 |
| 25. Arch 20 | | | 26. Arch Columns or Hangers 53 | | |
| 27. Spandrel Walls 21 | | | 28. Protective Coating System TYPE = 5-PAINT SYSTEM OZEU DATE = 01/01/1989 54 | 6 | 6 |
| 29. Pins/Hangers/Hinges 22 | 1 | | 30. Fatigue Prone Connections 55 | 1 | 1 |
| 31. Live Load Response 23 | S | | **32. Summary** 56 | 5 | 5 |
| **SUBSTRUCTURE** 2-CONCRETE | | | PIERS=11 SPANS = 1 | | |
| 33. Abutments 2-CONCRETE 24 | 2 | | 34. Abutment Seats 57 | 1 | 1 |
| 35. Piers TYPE = 5-STEEL 25 | 3 | | 36. Pier Seats 58 | 2 | 2 |
| 37. Backwalls 26 | 1 | | 38. Wingwalls ABUTMENT:=SPREAD / SPREAD 59 | 2 | 2 |
| 39. Fenders and Dolphins 27 | 1 | | 40. Scour 8-STABLE: EVAL SCOUR ABO 60 | 1 | 1 |
| 41. Slope Protection 0-OTHER 28 | 2 | | **42. Summary** DIVE DT=N/A 62 | 5 | 5 |
| **CULVERTS** | | | | | |
| 43. General 29 | | | 44. Alignment 63 | | |
| 45. Shape 30 | | | 46. Seams 64 | | |
| 47. Headwalls or Endwalls 31 | | | 48. Scour 65 | | |
| 49. 32 | | | 50. Summary 66 | | |
| **CHANNEL** | | | | | |
| 51. Alignment 33 | 1 | | 52. Protection 3-SHEET PILING 67 | 1 | 1 |
| 53. Waterway Adequacy 34 | 1 | | **54. Summary** 68 | 7 | 7 |
| **APPROACHES** | | | | | |
| 55. Pavement 2-BITUMINOUS 35 | 2 | | 56. Approach Slabs 69 | 2 | 2 |
| 57. Guardrail 1-STEEL BEAM 36 | | | 58. Relief Joints 70 | | |
| 59. Embankment BRDG.WIDTH=47.0 37 | 1 | | **60. Summary** PCT.LEGAL=125 71 | 6 | 6 |
| **GENERAL** | | | | | |
| 61. Navigation Lights 38 | 2 | | 62. Warning Signs ROUTINE.RESP: 4-CITY/LOCAL MAINT.RESP: 1-OHIO TRAN DEPT 72 | 1 | 1 |
| MVC ON=9999 UND=0000 | | | | | |
| 63. Sign Supports 39 | 1 | | 64. Utilities 73 | 1 | 1 |
| 65. Vertical Clearance 40 | 1 | | **66. General Appraisal & Operational Status** 74 | COND 5 | STAT A |

67. INSPECTED BY

SIGNED

7 7 5 2 7 — 76 PE

P A — 78 INITIALS

68. REVIEWED BY

SIGNED

6 9 9 9 1 — 81 PE

W W — 83 INITIALS

DOT 2852

DECK AREA 65,284

Date 1 0 1 0 1 3 (86–91)

0 0 0 0 1 0 N N — 92 — 69 Survey — 99

Date 1 2 0 6 1 3 (100–105)

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

# BRIDGE INSPECTION REPORT

BR-86 REV 02-95

| 4 | 7 | 0 | 0 | 8 | 1 | 3 |
|---|---|---|---|---|---|---|

1 Structure File Number 7

Bridge Number **LOR** (CO) **00006** (ROUTE) **0967** (UNIT)

**Date Built 07/01/1939 - 1988**

District **03** Bridge Type **STEEL/TRUSS/MOVABLE - BASC** Type Service **1 1 8**

**OVER CSX RR & BLACK RIVER**

| | |
|---|---|
| Deck | 1. MIN.GROWTH OF DELAMS,SPALLS IN APPR.SPANS.MODERATE |
| Deck | CORROSION OF STEEL GRID AT RIVER PIER SPANS. |
| Deck | 2. APPROX.15% SURFACE SCALING OFF,ISOLATED AREAS OF SCALING |
| Deck | AREA GROWTH AT PATCHES. |
| Deck | 3. SHALLOW SPALLING ON SIDEWALK SURFACES, SCRAPES AT THE |
| Deck | STEEL CURB PLATE. |
| Deck | 5. ISOLATED IMPACT DEFORMATION OF TRAFFIC RAIL POSTS. |
| Deck | ISOLATED HOLED THROUGH LOCATIONS AT BOTTOM PED RAILS. |
| Deck | 6. N.DRAIN PIPES INSIDE W.RIVER PIER LEAK RAINWATER ONTO |
| Deck | STEEL.PIER 3 TROUGH FRACTURED. PIER 2 CB UNDERMINED. |
| Deck | 7. UP TO 3/8" VERTICAL DIFFERENTIAL @ BASCULE FINGER JT.@ |
| Deck | EB LANES. |
| Superstructure | 10. AREAS OF MODERATE LOSSES(ISOLATED ADVANCED LOSSES), |
| Superstructure | ACTIVE RUSTING AND IMPACTED RUST. |
| Superstructure | 12. AREAS OF MODERATE TO ADVANCED PITTING, ESPECIALLY AT |
| Superstructure | RIVER PIER JOINT LOCATIONS AND SIDEWALK FASCIAS. |
| Superstructure | 13. BASCULE FLOORBEAM TRUSSES EXHIBIT ADVANCED SECTION |
| Superstructure | LOSSES WITH ISOLATED WELDED STEEL REPAIRS. THERE ARE HOLED |
| Superstructure | THROUGH AREAS IN THE VERTICAL STIFFENERS ON FLOORBEAMS 3W,3E |
| Superstructure | AND 5E AND ON THE JOINT SIDE OF BOTH RIVER PIERS.FLOORBEAMS. |
| Superstructure | THE WEST ABUTMENT SOUTH FLOORBEAM COPE CRACK IS 1-1/8" LONG. |
| Superstructure | SHOWS NO GROWTH SINCE 2007. |
| Superstructure | 15. SCATTERED 1/8" PITTING(ISOLATED AREAS UP TO 1/4")ALONG |
| Superstructure | TOP OF GUSSET PLATES AND LOWER CHORD INTERFACES, AND BEHIND |
| Superstructure | FILL PLATES. NO NOTICEABLE CHANGE SINCE 2011. |
| Superstructure | 16. SCATTERED 1/8" PITTING(ISOLATED AREAS UP TO 1/4")ALONG |
| Superstructure | TOP OF GUSSET PLATES AND LOWER CHORD INTERFACES, AND BEHIND |
| Superstructure | FILL PLATES. NO NOTICEABLE CHANGE SINCE 2012. |
| Superstructure | 19. SCATTERED 1/8" PITTING, TYPICAL IMPACTED RUST BETWEEN |
| Superstructure | BUILT-UP SECTIONS.NO NOTICEABLE CHANGE SINCE 2011. |
| Superstructure | 20. UP TO 1/8" PITTING & SECTION LOSS, TYPICALLY ALONG TRUSS |
| Superstructure | MEMBERS.NO NOTICEABLE CHANGE SINCE 2012. |
| Superstructure | 21. TYPICAL 1/8" PITTING TO LOWER LATERAL BRACING,ISOLATED |
| Superstructure | HOLED THROUGH AREAS. |
| Superstructure | 24. 1/16" TO 1/8" PITTING ON BEARING SURFACES & ISOLATED |
| Superstructure | LOCATIONS OF BACKED OFF NUTS OR TILTED ANCHORS. |
| Superstructure | 28. APPROX.15% OF AREA EXHIBITS DETERIORATION AND SURFACE |
| Superstructure | RUST,BUT NOT PREVALENT. |
| Substructure | 33. TYPICAL FULL HEIGHT,HAIRLINE TO 1/16" VERTICAL CRACKS |
| Substructure | W/MINOR EFFL..NO NOTICEABLE CHANGE SINCE 2012. |
| Substructure | 35. THE STEEL FRAMES OF THE BASCULE PIERS EXHIBIT ADVANCED |
| Substructure | SECTION LOSS W/HOLED THROUGH AREAS ALONG THE INTERFACES |
| Substructure | BETWEEN THE STEEL & CONCRETE. NO NOTICEABLE CHANGE SINCE |
| Substructure | 2012. |
| Substructure | 38. NORTHWEST WINGWALL FRACTURED & DELAMINATED ABOUT 12 SF. |
| Substructure | NO NOTICEABLE CHANGE SINCE 2012. |
| Substructure | 39. CONCRETE BRIDGE PROTECTION CAP BEAM IN GOOD CONDITION, |
| Substructure | BUT SOME BOLTS ANCHORING SOME OF THE RUBBER DOCK FENDERS ARE |
| Substructure | BROKEN.NO NOTICEABLE CHANGE SINCE 2012. |
| Approaches | 55. ASPHALT PAV'T TRANS.& LONG.CRACKS W/MINOR DEPRESSIONS @ |
| Approaches | APPR.SLAB.NO NOTICABLE CHANGE SINCE 2012. |
| Approaches | 56. WEST SLAB EXHIBITS A 3 SF SPALL PATCHED WITH ASPHALT. NO |
| Approaches | NOTICEABLE CHANGE SINCE 2012. |
| General | MOVABLE BRIDGES |
| General | GEARS: ABRASIVE WEAR,CROSS BEARING,GRIT IN LUBE ON SOME GEAR |
| General | SETS.CORROSION HAS LED TO THE FAILURE OF GEAR COVERS LEAVING |
| General | SOME HIGH SPEED GEARING EXPOSED. |
| General | BEARINGS: CORROSION,MISALIGNMENT,BOLTS NOT FULLY SEATED ON |
| General | SOME BEARINGS. |
| General | ELECTRIC MOTORS: OPERATIONAL,WITH SIGNS OF DETERIORATION: |
| General | CORROSION TO HOUSINGS AND WEAR TO FEEDER CABLES. |
| General | CENTER LOCKS: CORROSION,MODERATE LEAKAGE FROM ENCLOSED |
| General | REDUCERS.MOTOR BRAKE LIMIT SWITCHES AND SPACE HEATERS ARE NO |

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| General | WIRED. |
| General | TAIL LOCKS: SEVERE CORROSION AND SECTION LOSS TO THE CRANK |
| General | FRAME,MODERATE TO SEVERE CORROSION TO HOUSINGS,MODERATE |
| General | CORROSION TO OPEN GEARING.INSUFFICIENT CLEARANCE AROUND THE |
| General | ELECTRICAL EQUIPEMENT. |
| General | SPAN BALANCE: STRAIN GAGE BALANCE TESTING WAS PERFORMED AS |
| General | PART OF THE INSPECTION:BOTH SPANS ARE WELL BALANCED FOR THIS |
| General | SIZE AND TYPE OF BRIDGE, THE OPERATING LOADS ARE WITHIN THE |
| General | CAPACITY OF THE SPAN DRIVE MOTORS. |
| General | BUFFERS: ALL AIR BUFFERS ARE EFFECTIVELY NON-FUNCTIONAL.(SW |
| General | BUFFER PISTON DOESN'T DESCEND,NO AIR FLOW AT THE OTHERS). |
| General | BRAKES: CRITICAL BOLTED CONNECTIONS FOR MOTOR BRAKES-POORLY |
| General | FORMED HOLES AND NO TIGHT FIT. |
| General | LIMIT SWITCHES: MOST ARE FUNCTIONAL,SOME ARE NOT CONNECTED |
| General | TO THE BRIDGE CONTROL SYSTEM. |
| General | TRAFFIC GATES: MISSING DOOR LIMIT SWITCH FOR INTERLOCK, |
| General | ROTARY CAM LIMIT SWITCHES EXHIBIT SIGNS OF CORROSION AS THEY |
| General | ARE NOT PROVIDED WITH PROTECTIVE COVERS,AND LIGHTS INSIDE |
| General | THE GATE HOUSING IS BROKEN. |
| General | LUBRICATION: SOME BEARINGS HAVE INSUFFICIENT LUBE. |
| General | (FRACTURE CRITICAL PLAN ON FILE mlw) |