

DECK

FLOOR: TRUSS SPANS PRIMARY DECK UNDERSIDE EXHIBITS ISOLATED SPALLS WITH EXPOSED REBAR OVER UP TO 5% OF THE DECK AREA. TYPICALLY THESE SPALLS HAVE BEEN SEALED. TRANSVERSE CRACKS WITH EFFLORESCENCE AT 10' SPACINGS NOTED. EAST APPROACH 5-10% DETERIORATION.

UTILITY DECK "HAUNCH" SPALLS (1" OF CONCRETE POURED BELOW THE FLOORBEAM TOP FLANGES) NOTED THROUGHOUT.

RAILING: CONCRETE EXHIBITS HAIRLINE CRACKING WITH RUST STAINS AT SEVERAL LOCATIONS.

EXPANSION JOINTS: THE EXPANSION JOINTS EXHIBIT ISOLATED AREAS OF TORN GLANDS THAT ARE LEAKING ONTO THE SUPERSTRUCTURE.

SUPERSTRUCTURE

STRINGERS: THE FIRST INTERIOR STRINGERS OF THE TRUSS SPANS EXHIBIT MINOR PITTING ON THE WEB AND BOTTOM FLANGE (CLEANED AND PAINTED) WITH ISOLATED HOLED THROUGH SECTIONS.

LOWER CHORD: TYPICAL MODERATE AND ISOLATED AREAS OF ADVANCED SECTION LOSS DUE TO PREVIOUS CORROSION ON WEB PLATES AND RIVET HEADS. PACK RUST IS BEGINNING TO RE-ACTIVATE BETWEEN COMPONENTS, PRIMARILY BETWEEN WEB PLATES AND TOP FLANGE ANGLES.

VERTICALS: TYPICAL MODERATE SECTION LOSS UP TO 1/4" DUE TO PREVIOUS CORROSION. PACK RUST IS BEGINNING TO REACTIVATE.

DIAGONALS: TYPICAL SECTION LOSS WITH ISOLATED AREAS OF ADVANCED SECTION LOSS UP TO 1/4" TO THE WEB AT THE INTERFACE WITH GUSSET PLATES (CLEANED AND PAINTED).

GUSSET PLATES: TYPICAL MODERATE SECTION LOSS UP TO 1/8" WITH ISOLATED AREAS OF ADVANCED SECTION LOSS UP TO 1/4". GUSSET PLATE CL70S EXHIBITS A LAMINAR SPLIT UNDER THE WEST DIAGONAL REDUCING THE GUSSET PLATE THICKNESS TO 1/4" REMAINING.

BEARINGS: WATER IS COLLECTING AT SEVERAL PIER BEARINGS WITHIN THE POCKETS OF THE CASTINGS.

PINS: SECTION LOSS ON SLEEVES (CLEANED AND PAINTED). THE CHORD WEB PLATES ARE BENT DUE TO PACK RUST BETWEEN THE GUSSET PLATE AND THE WEB PLATE, PREVENTING SLIDING PINS FROM FULLY BEARING ON THE CHORD MEMBERS. LOWER CHORD SLIDING PINS AT PANEL POINTS AL17 AND BL41 APPEAR TO BE FROZEN DUE TO PACK RUST. SEVERAL PINS EXHIBIT ADVANCED WEARING UP TO 1/4" ALONG A THIRD OF THE PIN DIAMETER.

PAINT: <1% DETERIORATION, MINOR PEELING OF TOP COAT, RUST STAINING IS OCCURRING OVER THE TOP COAT PRIMARILY TO TRUSS MEMBERS BENEATH LEAKING JOINTS.

FATIGUE PRONE CONNECTIONS: UTILITY DECK FLOORBEAMS EXHIBIT CRACKS DUE TO A LACK OF RADIAL COPING NEAR THE CONNECTION TO THE TRUSSES. ISOLATED CRACKS IN FLOORBEAMS DO NOT HAVE ARREST HOLES. CRACK ENDS THAT HAVE NOT BEEN ARRESTED HAVE BEEN MARKED AND DATED TO DETERMINE FURTHER CRACK PROPAGATION.

SUBSTRUCTURE:

PIERS: LARGE SPALLS WITH EXPOSED REBAR ARE TYPICAL THROUGHOUT THE PIER TOWERS ABOVE BEARINGS. THOSE SPALLS HAVE BEEN SEALED. THE EXTERIOR PIER WALLS EXHIBIT HAIRLINE CRACKS AND ISOLATED CORNER SPALLS IN ISOLATED AREAS ALONG THE OUTSIDE CORBELS.

FENDERS: SEVERE ROT AND COLLISION DAMAGE. FENDERS HAVE FAILED AND NO LONGER FUNCTION AS INTENDED.

SCOUR: DIVED BY KCI ASSOCIATES OF OHIO ON 10/15/2010. SEE DIVE REPORT

CHANNEL:

ALIGNMENT: SHARP BEND JUST UPSTREAM OF BRIDGE.

PROTECTION: WEST BANK SHEET PILING IS WASHED OUT 200 YARDS NORTH (DOWNSTREAM) OF BRIDGE.

GENERAL:

LIGHTING: WIDESPREAD CRACKING AND ISOLATED SPALLS WERE NOTED ON PRECAST CONCRETE LIGHT POLES (MOUNTED OUTSIDE OF THE BRIDGE RAILING). SEVERAL MISSING OR DAMAGED DECORATIVE LIGHTS ON PIERS. ACCESS COVERS FOR ELECTRICAL BOXES IN SIDEWALKS AND HAND ACCESS HATCHES ON LIGHT POLES ARE MISSING.

UTILITIES: MISALIGNED SUPPORT UNDER THE 40" GAS MAIN ON UTILITY DECK. SEVERAL OF THE UTILITY CONDUITS ARE BROKEN (NO CHANGE SINCE THE LAST INSPECTION).

FOR ADDITIONAL COMMENTS SEE REPORT IN BRIDGE FILE.