



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Bridge Inspection Memorandum No. 20-2 Bridge Inspection Manual Revisions

November 24, 2020

TO: All Inspection Personnel, and Consultants

FROM: /s/ Andrew Fitzgerald, PTOE, PE
Andrew Fitzgerald
Bridge Inspection Manager
Bridge Management Division

SUBJECT: Revised Indiana Bridge Inspection Manual

REVISION: Supersedes Parts 1 – 6

EFFECTIVE: Immediately

The Indiana Bridge Inspection Manual has been revised. It now consists of the following 9 parts.

Part 1 Administration
Part 2 Types of Inspections
Part 3 Load Rating
Part 4 QC/QA
Part 5 Fatigue & Fracture Critical Inspections
Part 6 Scour
Part 7 Wearing Surfaces
Part 8 Asbestos
Part 9 Environmental Concerns
Appendix

Significant changes include for all 9 parts and appendix:

- Incorporation of memos.
 - Printable QA/QC forms.
 - Fatigue & Fracture Critical Inspection report formatting has been changed.
 - Scour POA's guidance has been updated and Monitoring Log developed.
 - Changes have been made on coding recommendations for wearing surface condition.
- Movable Bridges and NDT are no longer included in the manual since they are covered by the AASHTO and FHWA Manuals.

Part 1 – Administration:

- **1-1.04(02) Assistant State Program Manager (ASPM-R&P)** – Rating & Posting. This section was added to describe the duties, qualifications, and responsibilities of this positions under the State Program Manager
- **1-1.04(03) Assistant State Program Manager (ASPM-BI&I)** – Bridge Inspection & Inventory Rating & Posting. This section was added to describe the duties, qualifications, and responsibilities of this positions under the State Program Manager
- **1-1.04(14) Load Rating Engineer (LRE)** Rating & Posting – This section was revised by adding the requirement to submit a list of bridges previously load rated to be considered to be a Load Rater
- **1-1.3: Bridge Inspection Positions – Table** – This table in the Appendix was added to easily show Inspection positions and where in Part 1 they can be found

Part 2 - Types of Inspections:

- **New Part 2 was removed from Part 1, Administration, and made its own part**
- **Old Part 2 OA/QC, is now Part 4**
- **2-2.01(01) Timely Inspections** – This section was added to include information from Bridge Inspection Memo 18-06, dated 12/07/2018.
- **2-2.01(02) Delinquent Inspections** – This section was added so that delinquent inspections are documented as well as the reason for the delinquency.
- **2-2.03 Inspection Schedules** – This section was added to include information from Bridge Inspection Memos.
- **2-2.04 Inspection Plan of Action** – This section was added to include information from Bridge Inspection Memos.
- **2-2.06(04) Extended Inspection Frequency**– This section was added to include information from Bridge Inspection Memo 18-02, dated 02/01/2018.
- **2-2.12 Channel Surveys** – This section was added to include information from Bridge Inspection Memo 19-04, dated 11/26/2019.
- **2-2.13 Large Culvert Inspection** – This section was added to include information from Bridge Inspection Memos.
- **2-2.14 Bridges Closed to Traffic** – This section was added to include information from Bridge Inspection Memos.
- **2-3.01 Bridge File** – This section was added to include information from Bridge Inspection Memo 19-01, dated 01/31/2019.

- **2-3.04 State Line - County Border Inventory** – This section was added to include information from Bridge Inspection Memos.
- **2-4.02 Critical Findings** – This section was added to include information from Bridge Inspection Memos 18-05, dated 11/05/2018 and 19-03, dated 12/02/2019.

Part 3 - LOAD RATING

- **3-9.02 (01), 3-9.02(02)** – This section was revised, based on Inspection Memo 18-01, in April, 2018.

Part 4 - QA /QC

- **Old Part 4, ADDITIONAL INSPECTION GUIDANCE is now covered in NEW Parts 5, 6, 7, and 9.**
- **NEW Part 4, is QA/QC**
- **No significant changes, other than QA/QC Forms are now in the Appendix for easier use.**

Part 5 - FATIGUE & FRACTURE CRITICAL INSPECTION

- **Old Part 5, MOVABLE BRIDGES has been removed. This is covered by AASHTO Manuals.**
- **NEW Part 5, is FATIGUE & FRACTURE CRITICAL INSPECTION**
- **5-5.01(06) Field Inspection Reporting** – This section was revised, as well as the requirements of the data to be reported in a Fracture Critical Inspection Report, based on Bridge Inspection Memo 19-05, dated 12/10/2019.

Part 6 - SCOUR

- **Old Part 6, NDT & PDT Testing has been removed. This is covered by AASHTO Manuals.**
- **NEW Part 6, is SCOUR, it used to be in old Part - 4**
- **6-1.01(02) Scour Plan of Action for State Bridges** – This section was added.
- **6-1.01(03) Initial Scour Inspection Following Trigger Event** – This section was added.
- **6-1.01(04) Bridge Scour Monitoring** – This section was added.

Part 7 – WEARING SURFACES

- **NEW Part 7, is WEARING SURFACES, it used to be in old Part – 4**
- **7-1.0 WEARING SURFACE RATINGS** – This section was revised.

Part 8 – ASBESTOS

- **NEW Part 8, is ASBESTOS**
- **8-1.0 ASBESTOS** – This section was added.

Part 9 – ENVIRONMENTAL CONCERNS

- **NEW Part 9, is ENVIRONMENTAL CONCERNS, it used to be in old Part - 4**
- **9-1.0 BATS AND BIRDS** – This section was added.

APPENDIX

NEW Part – APPENDIX