

# Construction inspection bridge construction

## Minimum requirements

Work must be completed under the direct supervision of a Minnesota professional engineer. Inspectors must hold the appropriate MnDOT Technical Certification.

## Description

This class of inspection work is intended to assure that bridge construction work performed on Hennepin County bridge construction projects follow the Contract documents, construction Plan, Contract Special Provisions, MnDOT Standard Specifications for Construction, MnDOT policies, procedures and standards, Occupational Safety & Health Administration (OSHA) Regulations, and Federal Highway Administration (FHWA) guidelines, as well as any other applicable laws. On-site construction inspection is provided on a full-time basis during construction activities.

The work includes resolution of field problems as quickly as possible. Generally, field problems are any types of difficulties encountered during construction through circumstances that require some degree of engineering evaluation and decision.

Field problems may involve situations such as: out of place piling, out of tolerance work, out of specification materials, structural defects, accidental damage, underground obstructions, etc. These problems may have a significant impact on the execution, progress, or cost of the project. It is therefore of paramount importance that they be resolved expeditiously.

## Standards and specifications

May include the following:

- All work performed in accordance with contract documents and applicable specifications, rules & regulations.
- Field operations in accordance with OSHA regulations and accepted safety practices.
- Timely problem resolution and communication to engineer.
- All work properly measured and documented in a timely manner.

## Provided by Hennepin County

Information to be supplied by Hennepin County may include the most recent version of the following:

- Contract documents.

## Typical services

Project deliverables may include the following:

- Bridge construction inspection reports and documents.
- Measure and compute quantities of all contract work.
- An assembly of all relevant information regarding difficulty, problem or defect encountered.
- Proposed remediation of difficulty, problem, or defect.
- Field operations reports.
- Periodic, intermediate, and final data and records.
- Diaries, logs, notebooks, accounts, records, reports, and other documents.
- Prepare final documentation.
- Record as-built drawings documenting changes during construction.

MnDOT standards and manuals supplied by the contractor may include the following:

- MnDOT Standard Specifications for Construction
- MnDOT Bituminous Manual
- MnDOT Bridge Construction Manual
- MnDOT Bridge Standard Plans Manual
- MnDOT Bridge Details Manual
- MnDOT Concrete Manual
- MnDOT Contract Administration Manual
- MnDOT Grading and Base Manual
- MnDOT Laboratory Manual
- MnDOT Landscape Projects Manual
- MnDOT Erosion Control Handbook
- MnDOT Standard Plans Manual
- MnDOT Standard Plates Manual
- MnDOT Standard Signs Manual
- MnDOT Survey and Mapping Manual
- MnDOT Technical Manual
- MnDOT Traffic Engineering Manual
- MnDOT Labor Compliance Manual
- MnDOT Technical Certification Handbook
- MnDOT Technical Memorandums
- Minnesota Manual of Uniform Traffic Control Devices (MN MUTCD)

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