## Section 555. — STEEL STRUCTURES

11/01/24–FP14

Construction Requirements

WFL Specification 07/20/15 5550010

Include the following when work is required in this Section.

Note: AISC Quality Certification Program identifies three categories related to bridge fabrication:

* SBR (Certified Bridge Fabricator - Simple): Includes highway sign structures, parts for bridges (such as cross frames), unspliced rolled beam bridges.
* IBR (Certified Bridge Fabricator – Intermediate (Major)): are typical bridges that do not require extraordinary measures. Typical examples might include: (1) a rolled beam bridge with field or shop splices, either straight or with a radius over 500 ft; (2) a built-up I-shaped plate girder bridge with constant web depth (except for dapped ends), with or without splices, either straight or with a radius over 500 ft; (3) a built-up I-shaped plate girder with variable web depth (e.g., haunched), either straight or with a radius over 1000 ft; (4) a truss with a length of 200 ft or less that is entirely or substantially pre-assembled at the certified.
* ABR (Certified Bridge Fabricator – Advanced (Major)): are those requiring an additional standard of care in fabrication and erection, particularly with regard to geometric tolerances. . Examples include tub or trapezoidal box girders, closed box girders, large or non-preassembled trusses, arches, bascule bridges, cable-supported bridges, moveable bridges, and bridges with particularly tight curve radius

Insert category as required.

### 555.07 Fabrication.

Delete the text of the first sentence of the first paragraph and substitute the following:

Fabricate the structural steel in a fabricating plant that is certified in [INSERT CATEGORY: SBR (Certified Bridge Fabricator - Simple), IBR (Certified Bridge Fabricator – Intermediate (Major)) or ABR (Certified Bridge Fabricator – Advanced (Major))], under the AISC Quality Certification Program.

WFL Specification 11/01/24 5550015

Include the following when work is required in this Section

### 555.16 (c)(7) Inspection

Add the following to the first paragraph:

Perform inspections within 14 days of fastener installation.

### 555.16(c)(7)*(b) Threaded Fasteners.*

Amend as follows:

Delete the text of the first paragraph and substitute the following:

Use an inspection torque wrench to verify tensioning unless DTI devices are used.

Delete the last paragraph and substitute the following:

Apply the job-inspection torque to all bolts in each connection with the inspecting wrench turned in the tensioning direction. If this torque turns no bolt head or nut, the fastener is properly tensioned. Re-torque and re-inspect fasteners whose head or nut turns.

WFL Specification 01/07/14 5550020

Include the following when work is required in this Section.

Note: AISC Quality Certification Program identifies two categories related to bridge erection:

* CSE (Certified Steel Erector): simple non-continuous bridges
* ACSE (Advanced Certified Steel Erector): major bridges, continuous girder bridges, railroad bridges, truss bridges.

Insert category as required.

### 555.18 Erection.

Delete the second sentence of the first paragraph and substitute the following:

Use steel erectors certified under the AISC Quality Certification Program. Erect steel according to category [INSERT CATEGORY: CSE (Certified Steel Erector) OR ACSE (Advanced Certified Steel Erector)] under the AISC Quality Certification Program.