# TxDOT Preferred Practices for Steel Bridge Design: Consider Constructability

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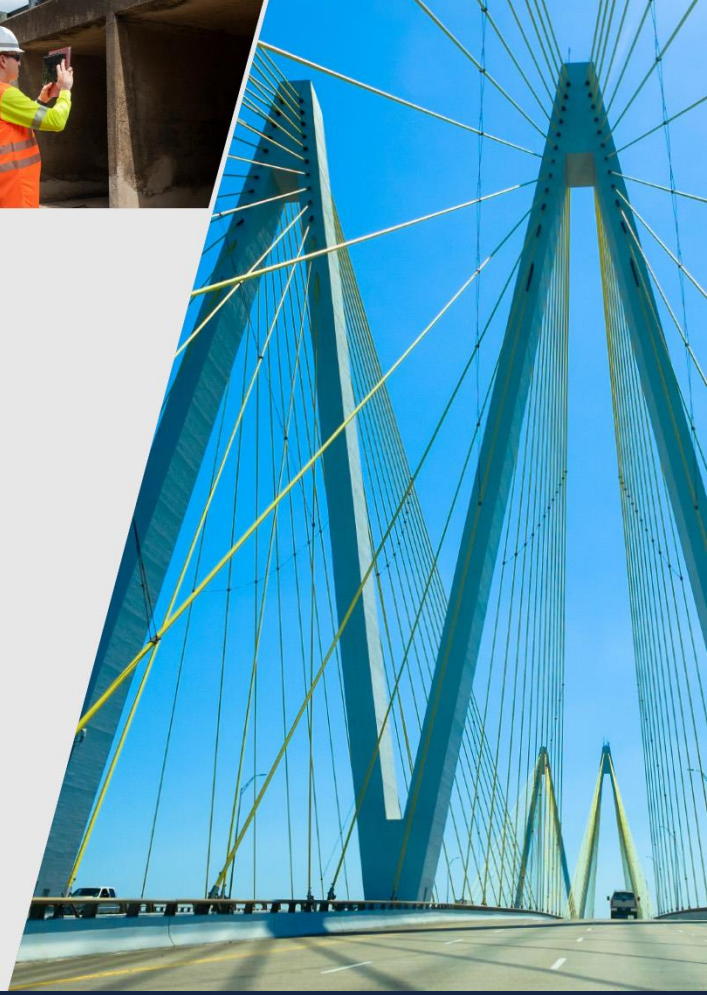
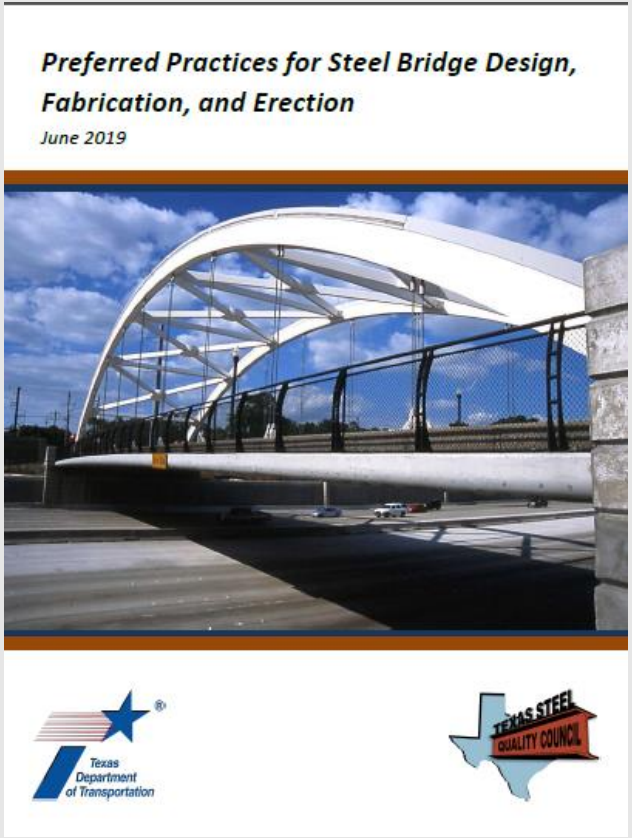


March 29, 2021

# Preferred Practices Document

- Last updated June 2019
- TxDOT Bridge Division is developing additional language to remind designers to consider erection and constructability in their designs.
- Under development in parallel with updates to Bridge Design Manual, Bridge Design Guide, and Bridge Detailing guide.



# Draft of Language to Add to Preferred Practices

## 4.3. Consideration of Erection Sequence

Investigate a possible erection sequence during design and verify possible locations of shore towers and cranes. Consider traffic phasing with underlying roadways when considering locations of shore towers and cranes. Consult steel erectors for possible erection schemes. If underlying roadway and traffic phasing constraints are complex, consider including a construction narrative in the plan set along with an assumed construction sequence. If this approach is chosen consult with an erection engineer and/or contractor to make sure the sequence and narrative is reasonable. Ensure that stresses during construction are within the limits specified in AASHTO LRFD Article 6.10.3 (For Steel I-Girders) and 6.11.3 (for Steel Tub Girders) at critical stages.

# Questions

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