

USE OF STRUCTURAL STEEL

Revision: Procedural Change on Toughness Requirements.

Design of highway bridges using structural steel shall be based on the current AASHTO *Standard Specifications for Highway Bridges* and the AASHTO Interims and as supplemented by Caltrans revisions.

The following AASHTO Guide Specifications are available from the Structural Steel Committee Chairman:

1. *Guide Specifications for Fracture Critical Non-Redundant Steel Bridge Members.*
2. *Guide Specifications for Horizontally Curved Highway Bridges.*
3. *Guide Specifications for Strength Design of Truss Bridges (Load Factor Design).*
4. *Guide Specifications for Alternate Load Factor Design Procedures for Steel Beam Bridges using Braced Compact Section.*

All tension members or components such as flanges, splice plates, hangers, eyebars, or rolled shapes shall be properly identified on the plans.

Toughness requirements for tension members or components shall conform to the AASHTO Materials Specifications for redundant or non-redundant load path structures. The charpy V-notch impact values listed in Section 55-2.01 of the *Standard Specifications* are for Zone 2 for redundant structures. For nonredundant structures, the member shall be identified on the plans as being "fracture critical" along with the proper specifications and charpy values listed in the special provisions.

For service temperatures below -31°F, Zone 3 charpy values must be inserted in the Special Provisions.



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