Bridge Design Details 11.1 June 2019

Girder Elevation

1. Dimension locations of field splices.
2. Show distances from the centerlines of bearings to the ends of girders.
3. Show sizes of web plates and flange plates.
4. Dimension locations of stiffeners.
5. Show spacing of stud connectors.
6. Denote member designation (see *Memo to Designers*: 12-2 Guidelines for Identification of Steel Bridge Members)
   a) Show notes about Charpy V-Notch (CVN) and Fracture Critical Member (FCM) requirements as applicable.
   b) Identify and define limits for:
      i. Fracture Critical Members
      ii. Main Members - Tension (T) or Compression (C)
      iii. Primary Components of Main Members - Tension or Compression
      iv. Secondary Members

Camber Diagram

(See *Memo to Designers*: 12-3 Camber of Steel-Concrete Composite Girders)

1. Draw diagrams for both the WEB CAMBER and the SCREED CAMBER, but do not scale.
2. Show Camber components table.

Field Splices

1. Show sizes of all splice plates, fill plates, and bolt diameters.
2. Show weld symbols (weld type and size).
3. Show bolt layout including spacing and edge distance.
4. Show gap distance between spliced girder segments.

Cross frames, Diaphragms and Lateral Bracings

1. Show all member designations and dimensions.
2. Show weld symbols (weld type and size).
3. Show bolt layout including spacing and edge distance.
4. Show dimensions from working points to flanges.
5. Provide notes on loading conditions during erection, as applicable. Specify whether details apply to “NO LOAD”, “STEEL COMPONENTS DEAD LOAD” or “FINAL DEAD LOAD” conditions.

Bearings

1. Show all components and fasteners, including sole plate details.
2. Show weld symbols (weld type and size).
3. Show bolt layout including spacing and edge distance