

Bridges & Structures

LRFD Steel Girder SuperStructure Design Example Pier Design Example Design Step 8

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Design Step 8.1 - Obtain Design Criteria

This pier design example is based on *AASHTO LRFD Bridge Design Specifications* (through 2002 interims). The design methods presented throughout the example are meant to be the most widely used in general bridge engineering practice.

The first design step is to identify the appropriate design criteria. This includes, but is not limited to, defining material properties, identifying relevant superstructure information, determining the required pier height, and determining the bottom of footing elevation.

Refer to Design Step 1 for introductory information about this design example. Additional information is presented about the design assumptions, methodology, and criteria for the entire bridge, including the pier.

The following units are defined for use in this design example:

$$K = 1000lb \quad Kcf = \frac{K}{ft^3} \quad ksi = \frac{K}{in^2} \quad ksf = \frac{K}{ft^2} \quad klf = \frac{K}{ft}$$

Material Properties:

Concrete density: $W_c = 0.150kcf$ *S*Table 3.5.1-1

Concrete 28-day compressive strength: $f_c = 4.0ksi$ *S*5.4.2.1 *C*Table 5.4.2.1-1

Reinforcement strength: $f_y = 60.0ksi$ *S*5.4.3

Concrete 28-day compressive strength - For all components of this pier design example, 4.0 ksi is used for the 28-day compressive strength. However, per the Specifications, 2.4 ksi could be used for the

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