3.3-6 The tension member shown in Figure P3.3-6 is a C12 × 20.7 of A572 Grade 50 steel. Will it safely support a service dead load of 60 kips and a service live load of 125 kips? Use Equation 3.1 for U.
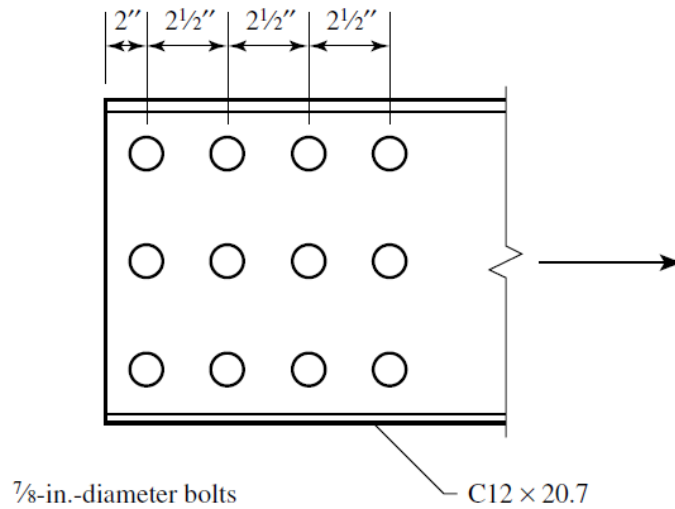
a. Use LRFD.

b. Use ASD.

FIGURE P3.3-6

3.4-5 The tension member shown in Figure P3.4-5 is an L6 × 3½ × 5/16. The bolts are ¾ inch in diameter. If A36 steel is used, is the member adequate for a service dead load of 31 kips and a service live load of 31 kips?
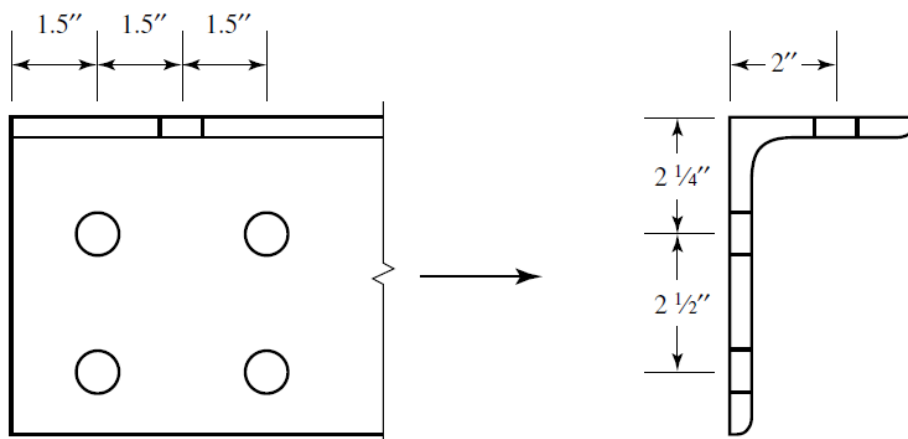
a. Use LRFD.

b. Use ASD.

FIGURE P3.4-5