Distance from neutral axis of composite section to neutral axis of top chord angles = ... d_2

Distance from neutral axis of composite section to neutral axis of bottom chord angles = ... d_3

Distance from neutral axis of composite section to outermost fibers of compression chord = ... c_1

Distance from neutral axis of composite section to outermost fibers of tension chord = ... c_2

Allowable concrete strength f_c = 3,000 pounds psi.

Allowable steel strength = ... f_s

Allowable concrete compressive stress f'_c = 1,350 pounds psi.

Actual concrete compressive stress = ... f'_{cc}

Allowable steel compressive stress = ... f_{sc}

Modular ratio = 15 = ... $\frac{E_s}{E_c}$

SECTION PROPERTIES: (Refer to Sheets D101 through D103)

Moment of inertia of concrete = ... I_c

Moment of inertia of top chord angles = ... I_{TCA}

Moment of inertia of bottom chord angles = ... I_{BCA}

Moment of inertia of composite system = ... I_S

Area of concrete flange = ... A_c

Area of top chord angles = ... A_{TCA}

Area of bottom chord angles = ... A_{BCA}

