

----- 4.25X12x7 GAGE (0.179") FULL SECTION -----

Area: 3.6114 sq in  
Perimeter: 40.6418 in

Bounding box: X: -7.0879 -- 7.1621 in  
Y: -2.1228 -- 2.3065 in

Centroid: X: 0.0000 in  
Y: 0.0000 in

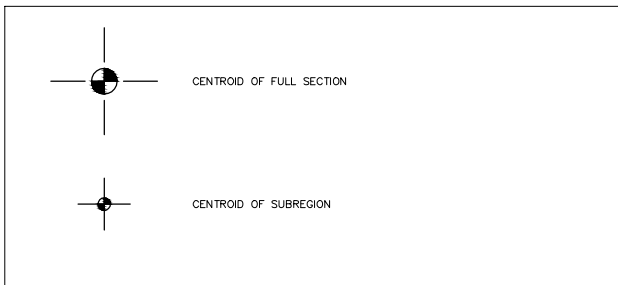
Moments of inertia: X: 10.9236 in<sup>4</sup>  
Y: 54.0954 in<sup>4</sup>

Section Modulus: S<sub>xt</sub> = 4.735 in<sup>3</sup>  
S<sub>xb</sub> = 5.145 in<sup>3</sup>

Product of inertia: XY: 1.1270 sq in sq in

Radii of gyration: X: 1.7392 in  
Y: 3.8703 in

Principal moments (sq in sq in) and X-Y directions about centroid:  
I: 10.8942 along [0.9997 0.0261]  
J: 54.1248 along [-0.0261 0.9997]



----- 4.25x12x7 GA. UPPER REGION -----

Area: 1.7291 sq in  
Perimeter: 19.6622 in

Bounding box: X: -3.3171 -- 3.3401 in  
Y: -1.6840 -- 0.6225 in

Centroid: X: 0.0000 in  
Y: 0.0000 in

Moments of inertia: X: 0.8724 sq in sq in  
Y: 8.8897 sq in sq in

Plastic Section Modulus: Z<sub>xt</sub>: 5.587 in<sup>3</sup>

Product of inertia: XY: -0.0111 sq in sq in

Radii of gyration: X: 0.7103 in  
Y: 2.2674 in

Principal moments (sq in sq in) and X-Y directions about centroid:  
I: 0.8724 along [1.0000 -0.0014]  
J: 8.8897 along [0.0014 1.0000]

----- 4.25x12x7 GA. LOWER REGION -----

Area: 1.8823 sq in  
Perimeter: 21.7291 in

Bounding box: X: -7.0455 -- 7.2045 in  
Y: -0.5759 -- 1.5469 in

Centroid: X: 0.0000 in  
Y: 0.0000 in

Moments of inertia: X: 0.6437 sq in sq in  
Y: 45.1986 sq in sq in

Plastic Section Modulus: Z<sub>xb</sub>: 6.082 in<sup>3</sup>

Product of inertia: XY: 0.8800 sq in sq in

Radii of gyration: X: 0.5848 in  
Y: 4.9003 in

Principal moments (sq in sq in) and X-Y directions about centroid:  
I: 0.6263 along [0.9998 0.0197]  
J: 45.2160 along [-0.0197 0.9998]



BRIDGE FLOORING  
SECTION PROPERTIES  
4.25X12X7 GAGE (0.179")

DRAWN BY:  
DLG

CHK BY:  
DLM

SHEET

DATE:  
5/21/10

JOB NO:  
STD

1 OF