

----- 3X9X5 GAGE (0.209") FULL SECTION -----

Area: 5.8044 sq in
Perimeter: 55.9621 in

Bounding box: X: -10.0920 -- 10.0330 in
Y: -1.5957 -- 1.6133 in

Centroid: X: 0.0000 in
Y: 0.0000 in

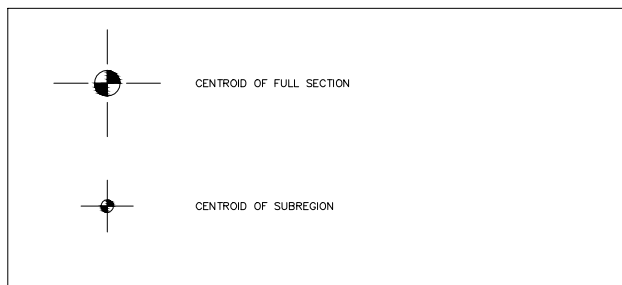
Moments of inertia: X: 8.7832 in⁴
Y: 185.5095 in⁴

Section Modulus: S_{xt} = 5.445 in³
S_{xb} = 5.503 in³

Product of inertia: XY: 2.6932 sq in sq in

Radii of gyration: X: 1.2301 in
Y: 5.6534 in

Principal moments (sq in sq in) and X-Y directions about centroid:
I: 8.7422 along [0.9999 0.0152]
J: 185.5506 along [-0.0152 0.9999]



----- 3x9x5 GA. UPPER REGION -----

Area: 2.8633 sq in
Perimeter: 28.2951 in

Bounding box: X: -7.2215 -- 7.2216 in
Y: -1.1522 -- 0.4611 in

Centroid: X: 0.0000 in
Y: 0.0000 in

Moments of inertia: X: 0.6670 sq in sq in
Y: 70.2634 sq in sq in

Plastic Section Modulus: Z_{xt}: 6.511

Product of inertia: XY: 0.0000 sq in sq in
Radii of gyration: X: 0.4826 in
Y: 4.9538 in

Principal moments (sq in sq in) and X-Y directions about centroid:
I: 0.6670 along [1.0000 0.0000]
J: 70.2634 along [0.0000 1.0000]

----- 3x9x5 GA. LOWER REGION -----

Area: 2.9411 sq in
Perimeter: 29.4581 in

Bounding box: X: -9.8773 -- 10.2477 in
Y: -0.4739 -- 1.1218 in

Centroid: X: 0.0000 in
Y: 0.0000 in

Moments of inertia: X: 0.6138 sq in sq in
Y: 114.9713 sq in sq in

Plastic Section Modulus: Z_{xb}: 6.688

Product of inertia: XY: 1.2574 sq in sq in
Radii of gyration: X: 0.4568 in
Y: 6.2523 in

Principal moments (sq in sq in) and X-Y directions about centroid:
I: 0.6000 along [0.9999 0.0110]
J: 114.9851 along [-0.0110 0.9999]



BRIDGE FLOORING
SECTION PROPERTIES
3X9X5 GAGE (0.209")

DRAWN BY:
DLG

CHK BY:
DLM

SHEET

DATE:
5/21/10

JOB NO:
STD

1 OF