

Project/Job:

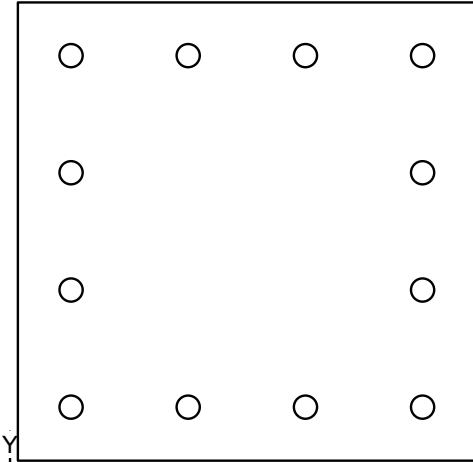
Engineer:

Date/Time: 12/25/04 11:52:36

RcSections

(C) Computations & Graphics, Inc

Rect12_B22_H22_NB4_NH4_#9



Code: ACI 318-02
 Strength reduction: Auto
 Neutral axis steps: 250
 Biaxial angle steps: 16
 Axial capacity steps: 20
 Excl. displ'd concrete: Yes

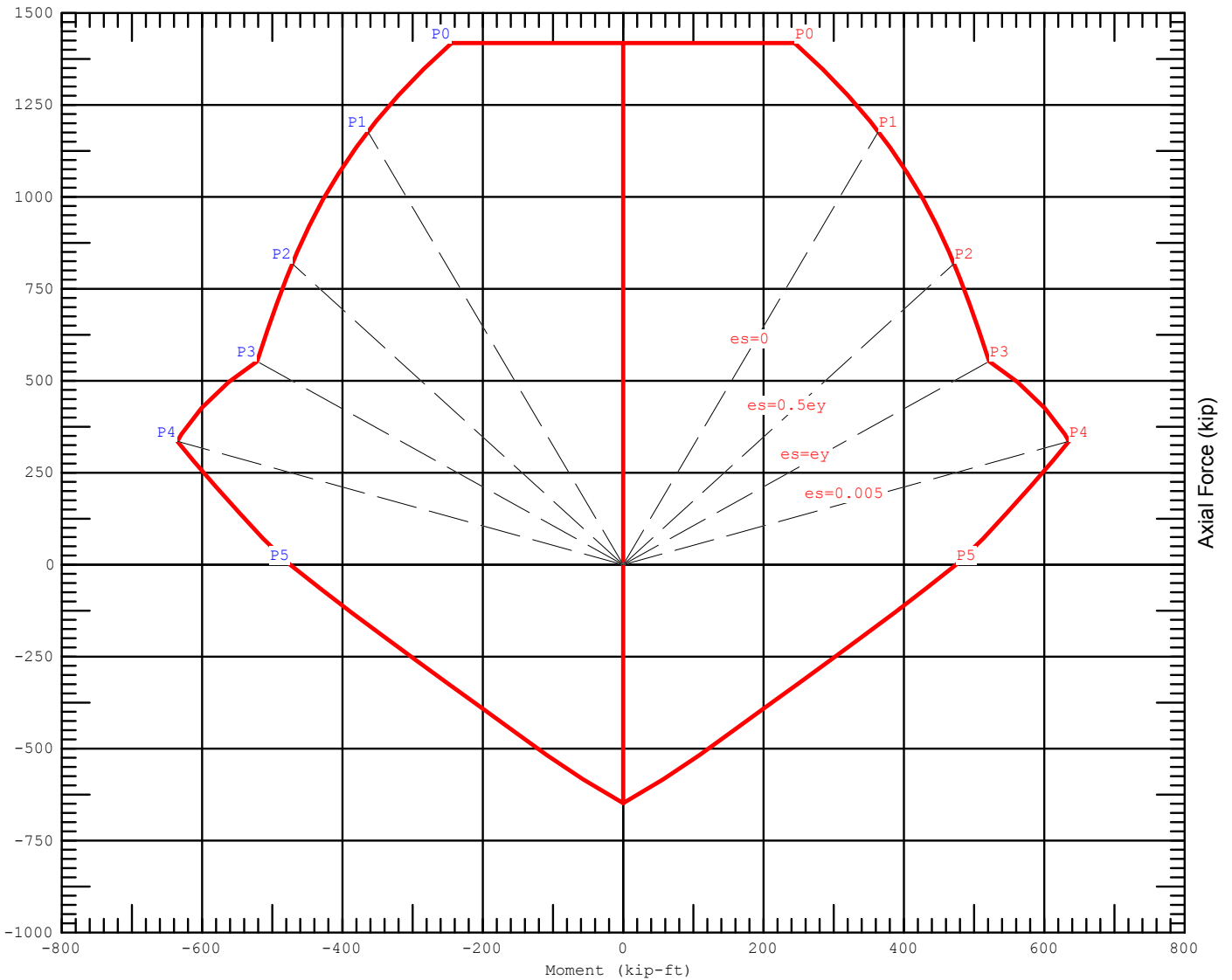
Size: 22 x 22 in
 fc: 5.00 kip/in²
 fy: 60.00 kip/in²
 Cover(c.c): 2.564 in
 Bars: 12 # 9
 Ag: 484.00 in²
 As: 12.00 in²
 Roh: 2.48%
 Ix: 19521.33 in⁴
 Iy: 19521.33 in⁴
 Clear spacing: 4.50 in

Control Points (kip, kip-ft)

PT	Pu	Mux(+)	max es
P0	1417.52	244.21	0.00000
P1	1177.06	363.58	0.00000
P2	818.14	471.36	0.00103
P3	552.59	521.46	0.00207
P4	335.06	635.16	0.00500
P5	0.01	474.29	0.00970

PT	Pu	Muy(-)	max es
P0	1417.52	-244.21	0.00000
P1	1177.06	-363.58	0.00000
P2	818.14	-471.36	0.00103
P3	552.59	-521.46	0.00207
P4	335.06	-635.16	0.00500
P5	0.01	-474.29	0.00970

Pu-Mux and Pu-Muy Interaction Diagram



Project/Job:

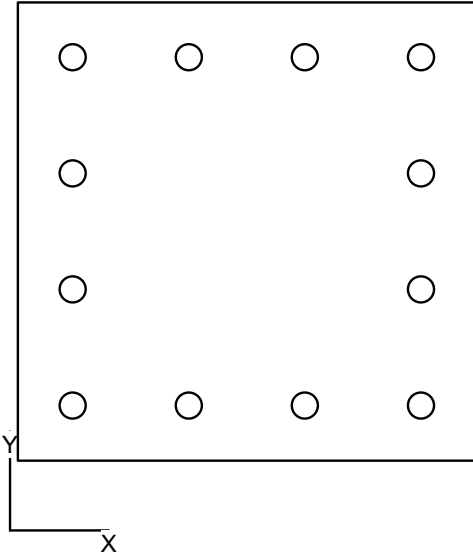
Engineer:

Date/Time: 12/25/04 11:52:38

RcSections

(C) Computations & Graphics, Inc

Rect15_B22_H22_NB4_NH4_#10



Code: ACI 318-02
 Strength reduction: Auto
 Neutral axis steps: 250
 Biaxial angle steps: 16
 Axial capacity steps: 20
 Excl. displ'd concrete: Yes

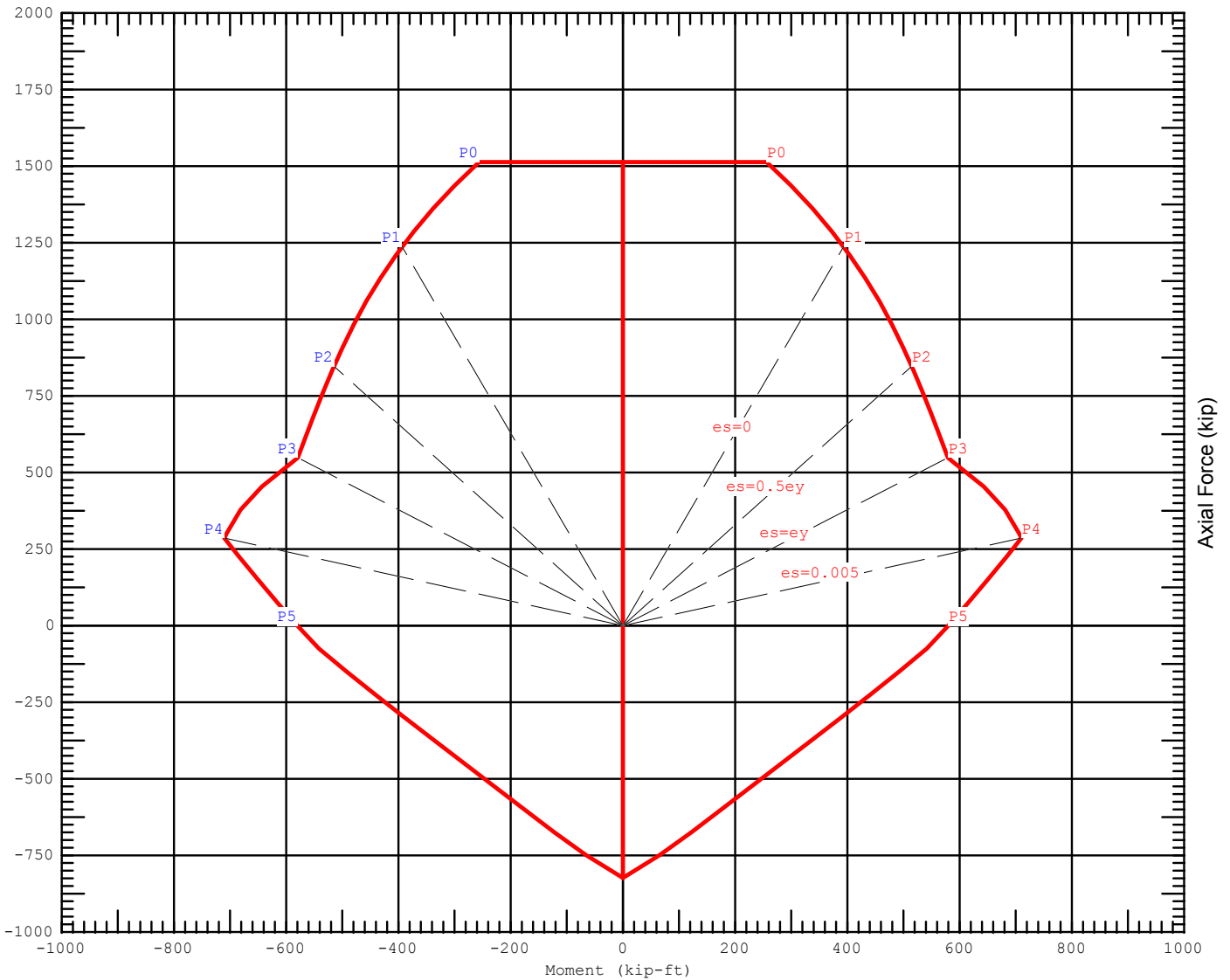
Size: 22 x 22 in
 fc: 5.00 kip/in²
 fy: 60.00 kip/in²
 Cover(c.c): 2.635 in
 Bars: 12 # 9
 Ag: 484.00 in²
 As: 15.24 in²
 Roh: 3.15%
 Ix: 19521.33 in⁴
 Iy: 19521.33 in⁴
 Clear spacing: 4.31 in

Control Points (kip, kip-ft)

PT	Pu	Mux(+)	max es
P0	1511.45	256.08	0.00000
P1	1235.67	393.25	0.00000
P2	845.94	514.40	0.00103
P3	547.73	578.95	0.00207
P4	285.38	709.96	0.00500
P5	-0.02	579.68	0.00817

PT	Pu	Muy(-)	max es
P0	1511.45	-256.08	0.00000
P1	1235.67	-393.25	0.00000
P2	845.94	-514.40	0.00103
P3	547.73	-578.95	0.00207
P4	285.38	-709.96	0.00500
P5	-0.02	-579.68	0.00817

Pu-Mux and Pu-Muy Interaction Diagram



Project/Job:

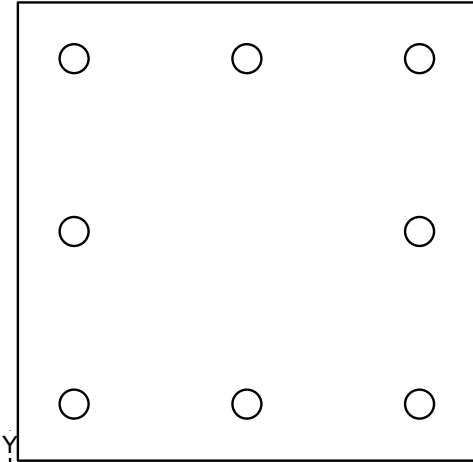
Engineer:

Date/Time: 12/25/04 11:52:38

RcSections

(C) Computations & Graphics, Inc

Rect17_B22_H22_NB3_NH3_#11



Code: ACI 318-02
 Strength reduction: Auto
 Neutral axis steps: 250
 Biaxial angle steps: 16
 Axial capacity steps: 20
 Excl. displ'd concrete: Yes

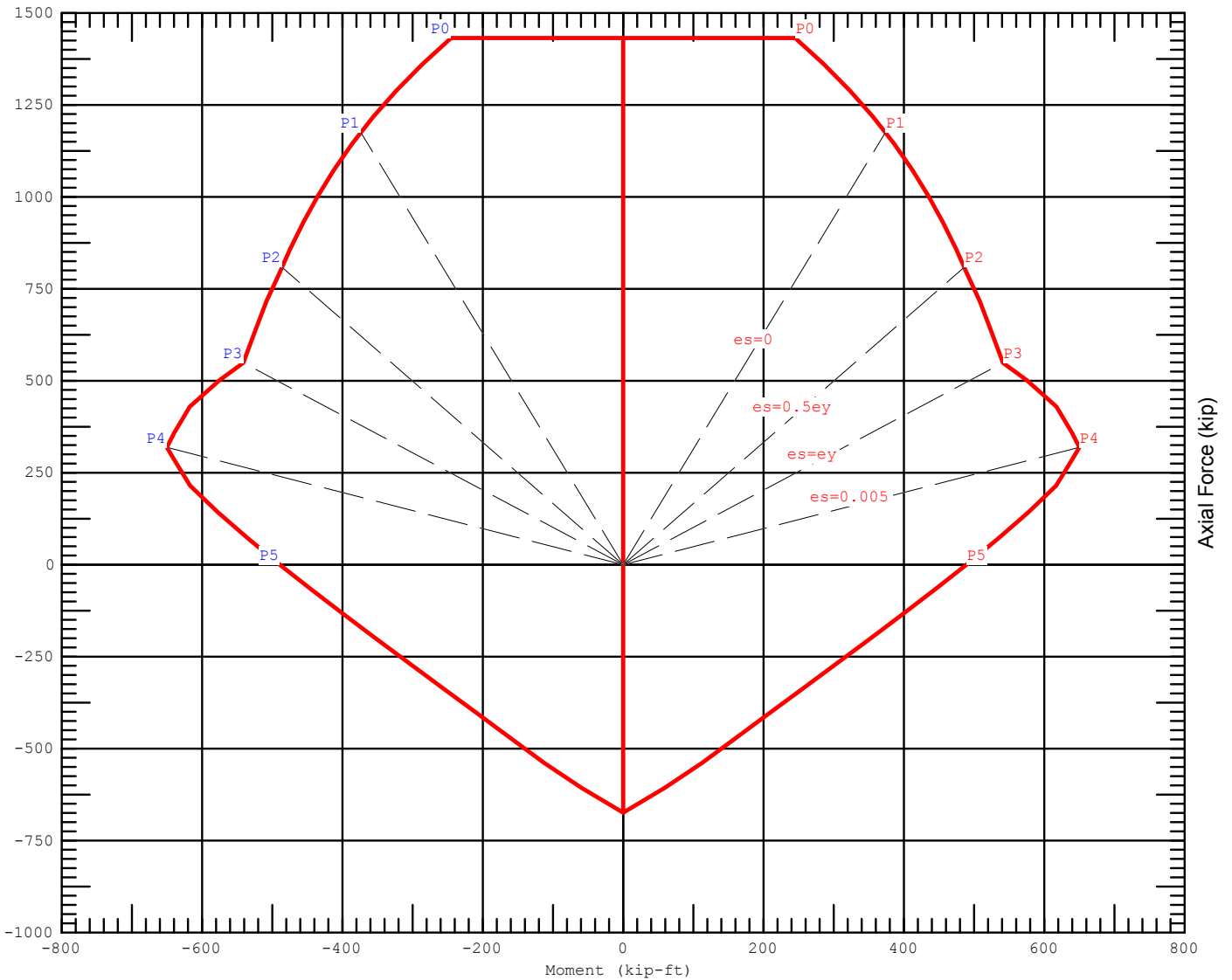
Size: 22 x 22 in
 fc: 5.00 kip/in²
 fy: 60.00 kip/in²
 Cover(c.c): 2.705 in
 Bars: 12 # 9
 Ag: 484.00 in²
 As: 12.48 in²
 Roh: 2.58%
 Ix: 19521.33 in⁴
 Iy: 19521.33 in⁴
 Clear spacing: 6.88 in

Control Points (kip, kip-ft)

PT	Pu	Mux(+)	max es
P0	1431.43	245.00	0.00000
P1	1174.95	373.81	0.00000
P2	808.46	486.14	0.00103
P3	548.77	541.00	0.00207
P4	318.84	649.95	0.00500
P5	-0.00	489.11	0.01011

PT	Pu	Muy(-)	max es
P0	1431.43	-245.00	0.00000
P1	1174.95	-373.81	0.00000
P2	808.46	-486.14	0.00103
P3	548.77	-541.00	0.00207
P4	318.84	-649.95	0.00500
P5	-0.00	-489.11	0.01011

Pu-Mux and Pu-Muy Interaction Diagram



Project/Job:

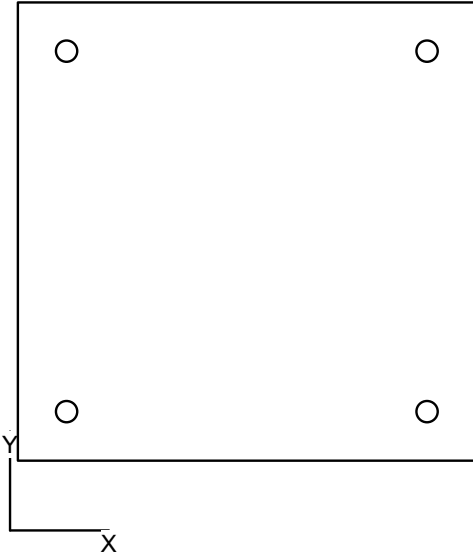
Engineer:

Date/Time: 12/25/04 11:52:38

RcSections

(C) Computations & Graphics, Inc

Rect19_B24_H24_NB2_NH2_#9



Code: ACI 318-02
 Strength reduction: Auto
 Neutral axis steps: 250
 Biaxial angle steps: 16
 Axial capacity steps: 20
 Excl. displ'd concrete: Yes

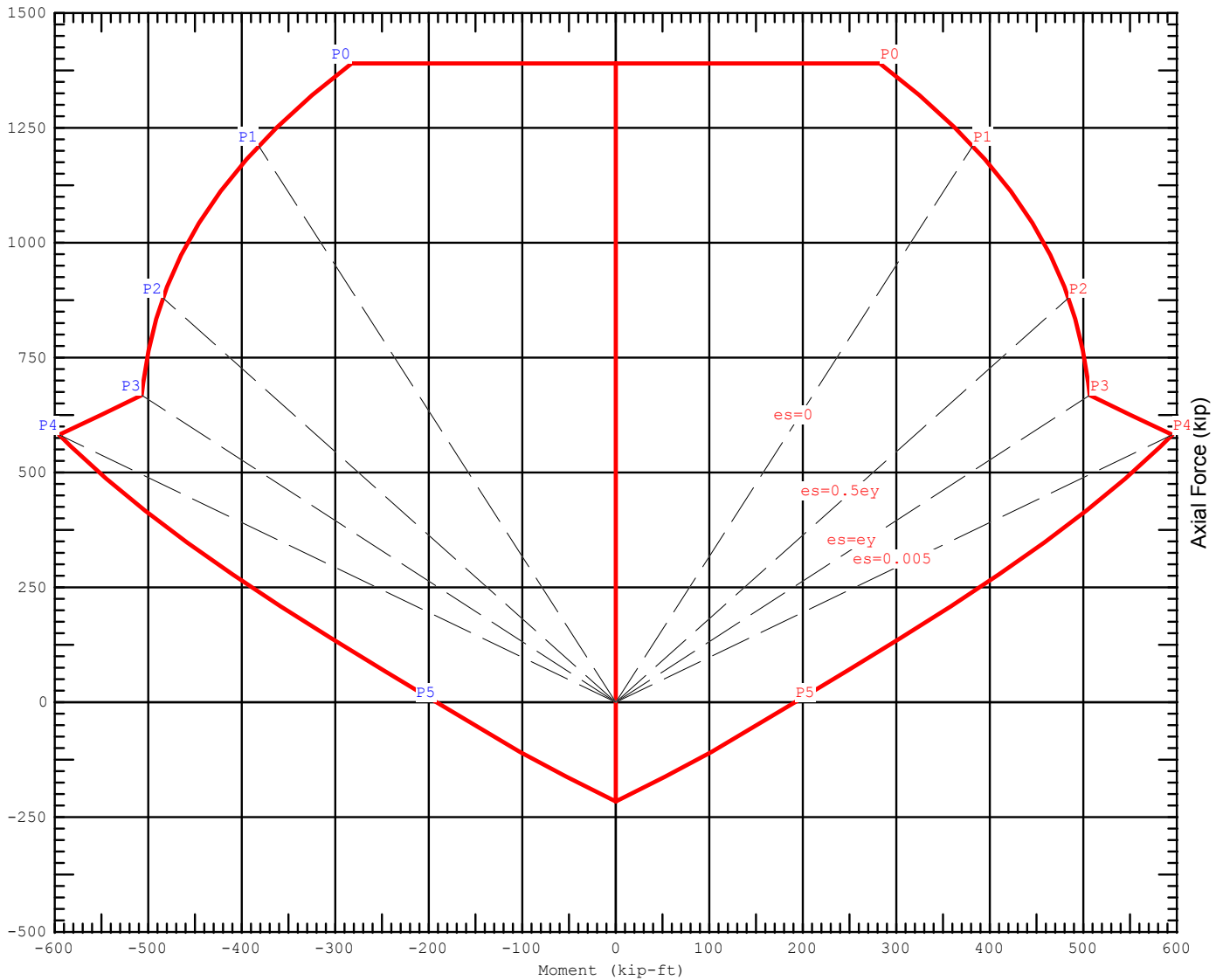
Size: 24 x 24 in
 fc: 5.00 kip/in²
 fy: 60.00 kip/in²
 Cover(c.c): 2.564 in
 Bars: 12 # 9
 Ag: 576.00 in²
 As: 4.00 in²
 Roh: 0.69%
 Ix: 27648.00 in⁴
 Iy: 27648.00 in⁴
 Clear spacing: 17.74 in

Control Points (kip, kip-ft)

PT	Pu	Mux(+)	max es
P0	1388.92	282.28	0.00000
P1	1209.44	381.56	0.00000
P2	878.91	483.90	0.00103
P3	667.37	506.66	0.00207
P4	581.35	594.93	0.00500
P5	0.00	191.62	0.02867

PT	Pu	Muy(-)	max es
P0	1388.92	-282.28	0.00000
P1	1209.44	-381.56	0.00000
P2	878.91	-483.90	0.00103
P3	667.37	-506.66	0.00207
P4	581.35	-594.93	0.00500
P5	0.00	-191.62	0.02867

Pu-Mux and Pu-Muy Interaction Diagram



Project/Job:

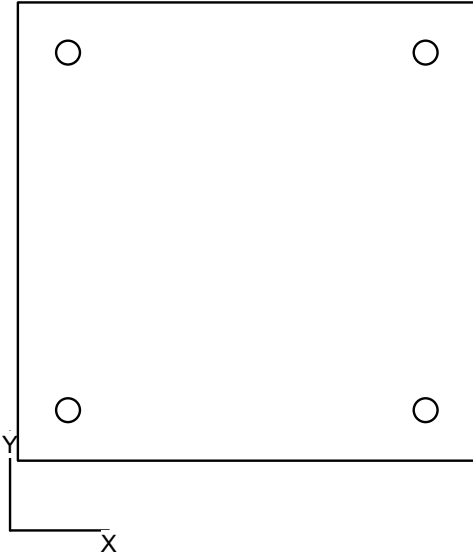
Engineer:

Date/Time: 12/25/04 11:52:38

RcSections

(C) Computations & Graphics, Inc

Rect22_B24_H24_NB2_NH2_#10



Code: ACI 318-02
 Strength reduction: Auto
 Neutral axis steps: 250
 Biaxial angle steps: 16
 Axial capacity steps: 20
 Excl. displ'd concrete: Yes

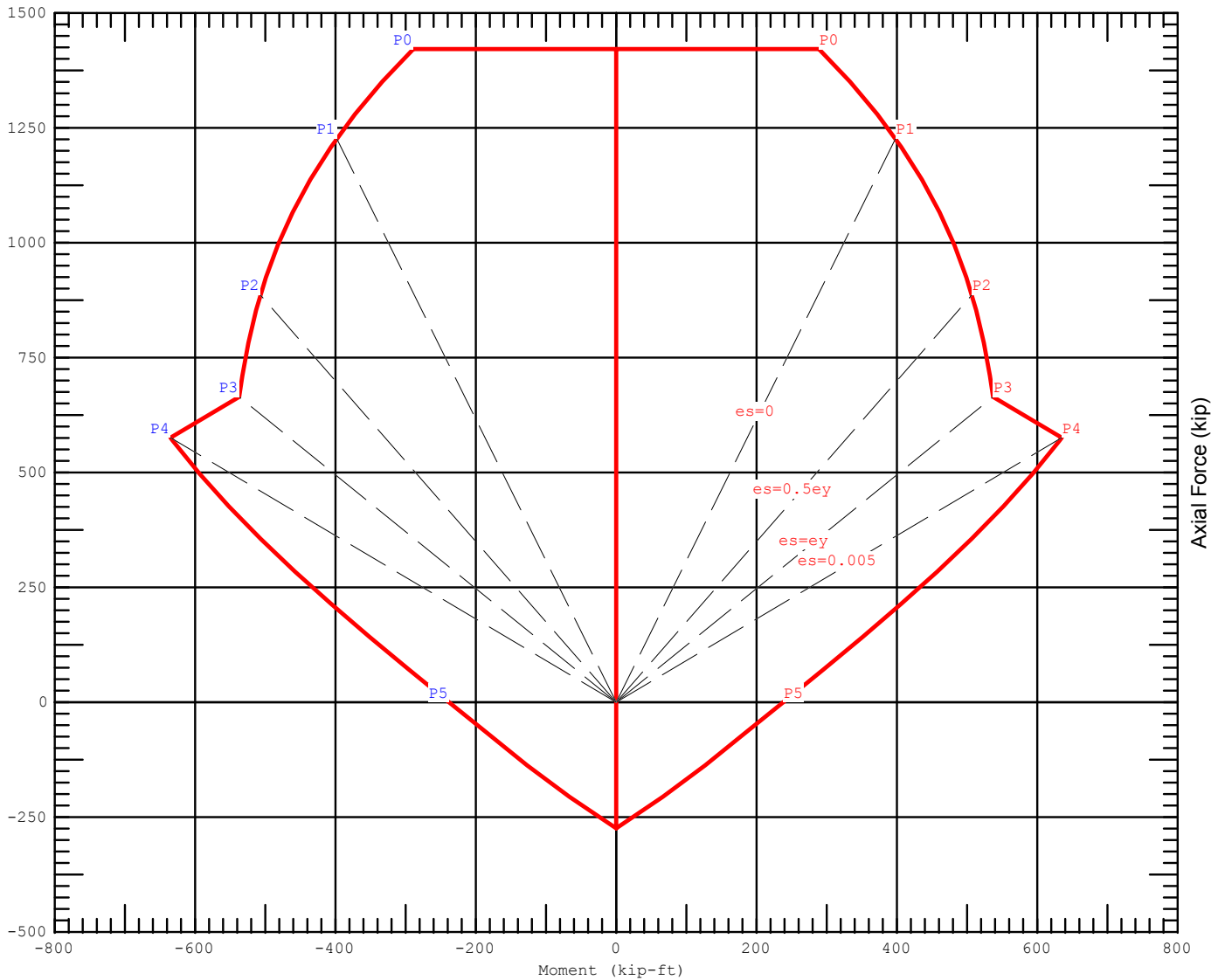
Size: 24 x 24 in
 f_c : 5.00 kip/in²
 f_y : 60.00 kip/in²
 Cover(c.c): 2.635 in
 Bars: 12 # 9
 A_g : 576.00 in²
 A_s : 5.08 in²
 R_{oh} : 0.88%
 I_x : 27648.00 in⁴
 I_y : 27648.00 in⁴
 Clear spacing: 17.46 in

Control Points (kip, kip-ft)

PT	P_u	$M_{ux}(+)$	max es
P0	1420.23	289.00	0.00000
P1	1225.24	398.00	0.00000
P2	885.15	506.90	0.00103
P3	663.65	537.13	0.00207
P4	574.99	634.88	0.00500
P5	-0.02	238.13	0.02507

PT	P_u	$M_{uy}(-)$	max es
P0	1420.23	-289.00	0.00000
P1	1225.24	-398.00	0.00000
P2	885.15	-506.90	0.00103
P3	663.65	-537.13	0.00207
P4	574.99	-634.88	0.00500
P5	-0.02	-238.13	0.02507

P_u - M_{ux} and P_u - M_{uy} Interaction Diagram



Project/Job:

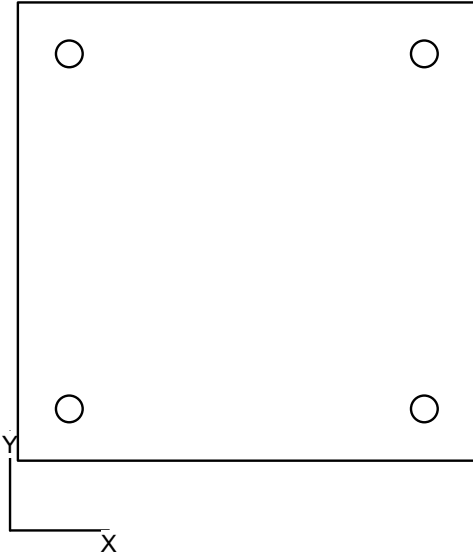
Engineer:

Date/Time: 12/25/04 11:52:38

RcSections

(C) Computations & Graphics, Inc

Rect25_B24_H24_NB2_NH2_#11



Code: ACI 318-02
 Strength reduction: Auto
 Neutral axis steps: 250
 Biaxial angle steps: 16
 Axial capacity steps: 20
 Excl. displ'd concrete: Yes

Size: 24 x 24 in
 f_c : 5.00 kip/in²
 f_y : 60.00 kip/in²
 Cover(c.c): 2.705 in
 Bars: 12 # 9
 A_g : 576.00 in²
 A_s : 6.24 in²
 R_{oh} : 1.08%
 I_x : 27648.00 in⁴
 I_y : 27648.00 in⁴
 Clear spacing: 17.18 in

Control Points (kip, kip-ft)

PT	P_u	$M_{ux}(+)$	max es
P0	1453.86	295.95	0.00000
P1	1242.55	415.31	0.00000
P2	892.10	531.27	0.00103
P3	659.85	569.47	0.00207
P4	567.60	676.74	0.00500
P5	0.02	287.22	0.02227

PT	P_u	$M_{uy}(-)$	max es
P0	1453.86	-295.95	0.00000
P1	1242.55	-415.31	0.00000
P2	892.10	-531.27	0.00103
P3	659.85	-569.47	0.00207
P4	567.60	-676.74	0.00500
P5	0.02	-287.22	0.02227

P_u - M_{ux} and P_u - M_{uy} Interaction Diagram

