

| | | | | | | | | |
|-------|----|-------|--------|---------|--------|--------|---|-------|
| 63(5) | 63 | 3.85 | -30.57 | -274.20 | 81.22 | 12.42 | 1 | Mymax |
| 63(1) | 63 | -0.03 | -16.14 | -276.69 | 32.04 | -0.12 | 0 | V-V |
| 63(0) | 63 | -0.03 | -16.14 | -276.69 | 32.04 | -0.12 | 0 | Wx+V |
| 63(0) | 63 | -0.03 | -16.14 | -276.69 | 32.04 | -0.12 | 0 | -Wx+V |
| 63(0) | 63 | -0.03 | -16.14 | -276.69 | 32.04 | -0.12 | 0 | Wy+V |
| 63(0) | 63 | -0.03 | -16.14 | -276.69 | 32.04 | -0.12 | 0 | -Wy+V |
| 63(0) | 63 | -1.53 | -13.86 | -263.16 | 25.73 | -4.96 | 1 | Ex+V |
| 63(0) | 63 | 1.47 | -16.52 | -264.92 | 34.58 | 4.74 | 1 | -Ex+V |
| 63(0) | 63 | 3.85 | -30.57 | -274.20 | 81.22 | 12.42 | 1 | Ey+V |
| 63(0) | 63 | -3.91 | 0.19 | -253.88 | -20.91 | -12.63 | 1 | -Ey+V |

| | | | | | | | | |
|--------|----|-------|--------|---------|--------|--------|---|-------|
| 64(5) | 64 | 3.84 | -31.88 | -275.06 | 85.55 | 12.40 | 1 | Vxmax |
| 64(5) | 64 | 3.84 | -31.88 | -275.06 | 85.55 | 12.40 | 1 | Vymax |
| 64(10) | 64 | -3.91 | 4.03 | -209.02 | -30.28 | -12.64 | 1 | Nmin |
| 64(1) | 64 | -0.05 | -16.14 | -276.70 | 32.04 | -0.14 | 0 | Nmax |
| 64(5) | 64 | 3.84 | -31.88 | -275.06 | 85.55 | 12.40 | 1 | Mxmax |
| 64(5) | 64 | 3.84 | -31.88 | -275.06 | 85.55 | 12.40 | 1 | Mymax |
| 64(1) | 64 | -0.05 | -16.14 | -276.70 | 32.04 | -0.14 | 0 | V-V |
| 64(0) | 64 | -0.05 | -16.14 | -276.70 | 32.04 | -0.14 | 0 | Wx+V |
| 64(0) | 64 | -0.05 | -16.14 | -276.70 | 32.04 | -0.14 | 0 | -Wx+V |
| 64(0) | 64 | -0.05 | -16.14 | -276.70 | 32.04 | -0.14 | 0 | Wy+V |
| 64(0) | 64 | -0.05 | -16.14 | -276.70 | 32.04 | -0.14 | 0 | -Wy+V |
| 64(0) | 64 | -1.54 | -13.74 | -263.09 | 25.35 | -4.98 | 1 | Ex+V |
| 64(0) | 64 | 1.46 | -16.64 | -265.00 | 34.96 | 4.72 | 1 | -Ex+V |
| 64(0) | 64 | 3.84 | -31.88 | -275.06 | 85.55 | 12.40 | 1 | Ey+V |
| 64(0) | 64 | -3.92 | 1.50 | -253.03 | -25.25 | -12.66 | 1 | -Ey+V |

| | | | | | | | | |
|--------|----|-------|--------|---------|--------|--------|---|-------|
| 65(5) | 65 | 3.87 | -33.18 | -276.16 | 89.89 | 12.47 | 1 | Vxmax |
| 65(5) | 65 | 3.87 | -33.18 | -276.16 | 89.89 | 12.47 | 1 | Vymax |
| 65(10) | 65 | -3.89 | 5.34 | -208.32 | -34.62 | -12.59 | 1 | Nmin |
| 65(1) | 65 | -0.01 | -16.14 | -276.93 | 32.04 | -0.07 | 0 | Nmax |
| 65(5) | 65 | 3.87 | -33.18 | -276.16 | 89.89 | 12.47 | 1 | Mxmax |
| 65(5) | 65 | 3.87 | -33.18 | -276.16 | 89.89 | 12.47 | 1 | Mymax |
| 65(1) | 65 | -0.01 | -16.14 | -276.93 | 32.04 | -0.07 | 0 | V-V |
| 65(0) | 65 | -0.01 | -16.14 | -276.93 | 32.04 | -0.07 | 0 | Wx+V |
| 65(0) | 65 | -0.01 | -16.14 | -276.93 | 32.04 | -0.07 | 0 | -Wx+V |
| 65(0) | 65 | -0.01 | -16.14 | -276.93 | 32.04 | -0.07 | 0 | Wy+V |
| 65(0) | 65 | -0.01 | -16.14 | -276.93 | 32.04 | -0.07 | 0 | -Wy+V |
| 65(0) | 65 | -1.51 | -13.63 | -263.23 | 24.96 | -4.92 | 1 | Ex+V |
| 65(0) | 65 | 1.49 | -16.75 | -265.30 | 35.33 | 4.79 | 1 | -Ex+V |
| 65(0) | 65 | 3.87 | -33.18 | -276.16 | 89.89 | 12.47 | 1 | Ey+V |
| 65(0) | 65 | -3.89 | 2.81 | -252.37 | -29.59 | -12.60 | 1 | -Ey+V |

| | | | | | | | | |
|-------|----|------|--------|---------|-------|-------|---|-------|
| 66(5) | 66 | 3.65 | -34.50 | -275.49 | 94.24 | 12.03 | 1 | Vxmax |
|-------|----|------|--------|---------|-------|-------|---|-------|

| | | | | | | | | |
|--------|----|-------|--------|---------|--------|--------|---|-------|
| 66(5) | 66 | 3.65 | -34.50 | -275.49 | 94.24 | 12.03 | 1 | Vymax |
| 66(10) | 66 | -4.04 | 6.64 | -206.38 | -38.94 | -12.89 | 1 | Nmin |
| 66(1) | 66 | -0.23 | -16.15 | -275.43 | 32.05 | -0.50 | 0 | Nmax |
| 66(5) | 66 | 3.65 | -34.50 | -275.49 | 94.24 | 12.03 | 1 | Mxmax |
| 66(5) | 66 | 3.65 | -34.50 | -275.49 | 94.24 | 12.03 | 1 | Mymax |
| 66(1) | 66 | -0.23 | -16.15 | -275.43 | 32.05 | -0.50 | 0 | V-V |
| 66(0) | 66 | -0.23 | -16.15 | -275.43 | 32.05 | -0.50 | 0 | Wx+V |
| 66(0) | 66 | -0.23 | -16.15 | -275.43 | 32.05 | -0.50 | 0 | -Wx+V |
| 66(0) | 66 | -0.23 | -16.15 | -275.43 | 32.05 | -0.50 | 0 | Wy+V |
| 66(0) | 66 | -0.23 | -16.15 | -275.43 | 32.05 | -0.50 | 0 | -Wy+V |
| 66(0) | 66 | -1.71 | -13.52 | -261.78 | 24.60 | -5.31 | 1 | Ex+V |
| 66(0) | 66 | 1.28 | -16.87 | -263.90 | 35.73 | 4.37 | 1 | -Ex+V |
| 66(0) | 66 | 3.65 | -34.50 | -275.49 | 94.24 | 12.03 | 1 | Ey+V |
| 66(0) | 66 | -4.08 | 4.11 | -250.19 | -33.91 | -12.97 | 1 | -Ey+V |

| | | | | | | | | |
|--------|----|-------|--------|---------|--------|--------|---|-------|
| 67(5) | 67 | 5.06 | -35.72 | -286.81 | 98.40 | 14.83 | 1 | Vxmax |
| 67(5) | 67 | 5.06 | -35.72 | -286.81 | 98.40 | 14.83 | 1 | Vymax |
| 67(10) | 67 | -3.05 | 8.01 | -212.98 | -43.41 | -10.92 | 1 | Nmin |
| 67(1) | 67 | 1.15 | -16.05 | -285.73 | 31.87 | 2.24 | 0 | Nmax |
| 67(5) | 67 | 5.06 | -35.72 | -286.81 | 98.40 | 14.83 | 1 | Mxmax |
| 67(5) | 67 | 5.06 | -35.72 | -286.81 | 98.40 | 14.83 | 1 | Mymax |
| 67(1) | 67 | 1.15 | -16.05 | -285.73 | 31.87 | 2.24 | 0 | V-V |
| 67(0) | 67 | 1.15 | -16.05 | -285.73 | 31.87 | 2.24 | 0 | Wx+V |
| 67(0) | 67 | 1.15 | -16.05 | -285.73 | 31.87 | 2.24 | 0 | -Wx+V |
| 67(0) | 67 | 1.15 | -16.05 | -285.73 | 31.87 | 2.24 | 0 | Wy+V |
| 67(0) | 67 | 1.15 | -16.05 | -285.73 | 31.87 | 2.24 | 0 | -Wy+V |
| 67(0) | 67 | -0.44 | -13.32 | -271.14 | 24.06 | -2.80 | 1 | Ex+V |
| 67(0) | 67 | 2.64 | -16.90 | -274.08 | 35.94 | 7.07 | 1 | -Ex+V |
| 67(0) | 67 | 5.06 | -35.72 | -286.81 | 98.40 | 14.83 | 1 | Ey+V |
| 67(0) | 67 | -2.87 | 5.49 | -258.41 | -38.41 | -10.56 | 1 | -Ey+V |

| | | | | | | | | |
|--------|----|--------|--------|---------|--------|--------|---|-------|
| 68(6) | 68 | -10.78 | 10.52 | -154.54 | -50.14 | -26.28 | 1 | Vxmax |
| 68(5) | 68 | -4.10 | -33.38 | -178.24 | 95.50 | -3.36 | 1 | Vymax |
| 68(10) | 68 | -9.54 | 12.43 | -126.81 | -53.92 | -23.81 | 1 | Nmin |
| 68(1) | 68 | -7.83 | -11.93 | -172.37 | 23.67 | -15.61 | 0 | Nmax |
| 68(5) | 68 | -4.10 | -33.38 | -178.24 | 95.50 | -3.36 | 1 | Mxmax |
| 68(6) | 68 | -10.78 | 10.52 | -154.54 | -50.14 | -26.28 | 1 | Mymax |
| 68(1) | 68 | -7.83 | -11.93 | -172.37 | 23.67 | -15.61 | 0 | V-V |
| 68(0) | 68 | -7.83 | -11.93 | -172.37 | 23.67 | -15.61 | 0 | Wx+V |
| 68(0) | 68 | -7.83 | -11.93 | -172.37 | 23.67 | -15.61 | 0 | -Wx+V |
| 68(0) | 68 | -7.83 | -11.93 | -172.37 | 23.67 | -15.61 | 0 | Wy+V |
| 68(0) | 68 | -7.83 | -11.93 | -172.37 | 23.67 | -15.61 | 0 | -Wy+V |
| 68(0) | 68 | -8.68 | -9.51 | -166.20 | 16.34 | -19.16 | 1 | Ex+V |
| 68(0) | 68 | -6.20 | -13.34 | -166.58 | 29.02 | -10.48 | 1 | -Ex+V |

| | | | | | | | | |
|-------|----|--------|--------|---------|--------|--------|---|-------|
| 68(0) | 68 | -4.10 | -33.38 | -178.24 | 95.50 | -3.36 | 1 | Ey+V |
| 68(0) | 68 | -10.78 | 10.52 | -154.54 | -50.14 | -26.28 | 1 | -Ey+V |

| N-W(Nw) | N | V-X | V-Y | =N= | M-X | M-Y | NE |
|---------|----|---------|---------|----------|----------|----------|---------|
| 1(5) | 69 | 758.11 | 626.34 | -1507.86 | -2648.25 | 2489.87 | 1 Vxmax |
| 1(5) | 69 | 758.11 | 626.34 | -1507.86 | -2648.25 | 2489.87 | 1 Vymax |
| 1(10) | 69 | -742.03 | -650.51 | 80.29 | 2301.89 | -2490.38 | 1 Nmin |
| 1(5) | 69 | 758.11 | 626.34 | -1507.86 | -2648.25 | 2489.87 | 1 Nmax |
| 1(5) | 69 | 758.11 | 626.34 | -1507.86 | -2648.25 | 2489.87 | 1 Mxmax |
| 1(5) | 69 | 758.11 | 626.34 | -1507.86 | -2648.25 | 2489.87 | 1 Mymax |
| 1(1) | 69 | 9.10 | -13.61 | -791.16 | -200.49 | -1.19 | 0 V-V |
| 1(0) | 69 | 9.10 | -13.61 | -791.16 | -200.49 | -1.19 | 0 Wx+V |
| 1(0) | 69 | 9.10 | -13.61 | -791.16 | -200.49 | -1.19 | 0 -Wx+V |
| 1(0) | 69 | 9.10 | -13.61 | -791.16 | -200.49 | -1.19 | 0 Wy+V |
| 1(0) | 69 | 9.10 | -13.61 | -791.16 | -200.49 | -1.19 | 0 -Wy+V |
| 1(0) | 69 | -392.74 | -37.47 | -371.08 | -56.14 | -1319.30 | 1 Ex+V |
| 1(0) | 69 | 410.29 | 11.10 | -1186.27 | -321.70 | 1318.75 | 1 -Ex+V |
| 1(0) | 69 | 758.11 | 626.34 | -1507.86 | -2648.25 | 2489.87 | 1 Ey+V |
| 1(0) | 69 | -740.57 | -652.71 | -49.49 | 2270.41 | -2490.43 | 1 -Ey+V |

N-B = 3 Xw = 0.31 Yw = 17.98 Arfw = 0.0290 Aw = 2.5920
 N-W N N-B(I1-I2) (Nw) M-M N-N V-V NE

| | | | | | | | |
|---|----|------------|---------|----------|---------|---|-------|
| 1 | 69 | 1(4-2) (6) | 9.76 | 1826.63 | -673.92 | 1 | Nmin |
| 1 | 69 | 1(4-2) (5) | -196.88 | -2862.52 | 648.07 | 1 | Nmax |
| 1 | 69 | 1(4-2) (4) | -359.51 | -1732.13 | 23.00 | 1 | Mmax |
| 1 | 69 | 1(4-2) (5) | -196.88 | -2862.52 | 648.07 | 1 | Vmax |
| 1 | 69 | 1(4-2) (1) | -100.55 | -525.47 | -13.34 | 0 | V-V |
| 1 | 69 | 1(4-2) (0) | -100.55 | -525.47 | -13.34 | 0 | Wx+V |
| 1 | 69 | 1(4-2) (0) | -100.55 | -525.47 | -13.34 | 0 | -Wx+V |
| 1 | 69 | 1(4-2) (0) | -100.55 | -525.47 | -13.34 | 0 | Wy+V |
| 1 | 69 | 1(4-2) (0) | -100.55 | -525.47 | -13.34 | 0 | -Wy+V |
| 1 | 69 | 1(4-2) (0) | 172.39 | 696.24 | -48.85 | 1 | Ex+V |
| 1 | 69 | 1(4-2) (0) | -359.51 | -1732.13 | 23.00 | 1 | -Ex+V |
| 1 | 69 | 1(4-2) (0) | -196.88 | -2862.52 | 648.07 | 1 | Ey+V |
| 1 | 69 | 1(4-2) (0) | 9.76 | 1826.63 | -673.92 | 1 | -Ey+V |
| 1 | 69 | 2(1-3) (9) | -433.42 | 395.58 | -337.47 | 1 | Nmin |
| 1 | 69 | 2(1-3) (3) | 306.62 | -641.56 | 261.06 | 1 | Nmax |
| 1 | 69 | 2(1-3) (5) | -433.48 | 367.71 | -338.79 | 1 | Mmax |
| 1 | 69 | 2(1-3) (5) | -433.48 | 367.71 | -338.79 | 1 | Vmax |
| 1 | 69 | 2(1-3) (1) | -0.28 | -170.80 | -8.45 | 0 | V-V |
| 1 | 69 | 2(1-3) (0) | -0.28 | -170.80 | -8.45 | 0 | Wx+V |

| | | | | | | | | |
|---|----|--------|-----|---------|----------|---------|---|-------|
| 1 | 69 | 2(1-3) | (0) | -0.28 | -170.80 | -8.45 | 0 | -Wx+V |
| 1 | 69 | 2(1-3) | (0) | -0.28 | -170.80 | -8.45 | 0 | Wy+V |
| 1 | 69 | 2(1-3) | (0) | -0.28 | -170.80 | -8.45 | 0 | -Wy+V |
| 1 | 69 | 2(1-3) | (0) | 306.62 | -641.56 | 261.06 | 1 | Ex+V |
| 1 | 69 | 2(1-3) | (0) | -307.27 | 307.16 | -276.99 | 1 | -Ex+V |
| 1 | 69 | 2(1-3) | (0) | -433.48 | 367.71 | -338.79 | 1 | Ey+V |
| 1 | 69 | 2(1-3) | (0) | 432.83 | -702.11 | 322.87 | 1 | -Ey+V |
| 1 | 69 | 3(2-5) | (5) | 387.28 | 986.95 | 400.82 | 1 | Nmin |
| 1 | 69 | 3(2-5) | (6) | -388.21 | -1174.00 | -398.45 | 1 | Nmax |
| 1 | 69 | 3(2-5) | (5) | 387.28 | 986.95 | 400.82 | 1 | Mmax |
| 1 | 69 | 3(2-5) | (5) | 387.28 | 986.95 | 400.82 | 1 | Vmax |
| 1 | 69 | 3(2-5) | (1) | -0.72 | -94.88 | 1.05 | 0 | V-V |
| 1 | 69 | 3(2-5) | (0) | -0.72 | -94.88 | 1.05 | 0 | Wx+V |
| 1 | 69 | 3(2-5) | (0) | -0.72 | -94.88 | 1.05 | 0 | -Wx+V |
| 1 | 69 | 3(2-5) | (0) | -0.72 | -94.88 | 1.05 | 0 | Wy+V |
| 1 | 69 | 3(2-5) | (0) | -0.72 | -94.88 | 1.05 | 0 | -Wy+V |
| 1 | 69 | 3(2-5) | (0) | -135.22 | -425.75 | -130.43 | 1 | Ex+V |
| 1 | 69 | 3(2-5) | (0) | 134.29 | 238.70 | 132.80 | 1 | -Ex+V |
| 1 | 69 | 3(2-5) | (0) | 387.28 | 986.95 | 400.82 | 1 | Ey+V |
| 1 | 69 | 3(2-5) | (0) | -388.21 | -1174.00 | -398.45 | 1 | -Ey+V |

| N-W(Nw) | N | V-X | V-Y | =N= | M-X | M-Y | NE |
|---------|----|---------|----------|----------|----------|----------|---------|
| 2(6) | 70 | -597.65 | 1559.85 | -780.83 | -8122.40 | -2191.10 | 1 Vxmax |
| 2(5) | 70 | 482.38 | -1497.10 | -1538.50 | 8606.21 | 1956.26 | 1 Vymax |
| 2(10) | 70 | -588.04 | 1554.62 | -587.55 | -8162.72 | -2171.53 | 1 Nmin |
| 2(5) | 70 | 482.38 | -1497.10 | -1538.50 | 8606.21 | 1956.26 | 1 Nmax |
| 2(5) | 70 | 482.38 | -1497.10 | -1538.50 | 8606.21 | 1956.26 | 1 Mxmax |
| 2(6) | 70 | -597.65 | 1559.85 | -780.83 | -8122.40 | -2191.10 | 1 Mymax |
| 2(1) | 70 | -61.62 | 33.74 | -1191.67 | 266.38 | -126.25 | 0 V-V |
| 2(0) | 70 | -61.62 | 33.74 | -1191.67 | 266.38 | -126.25 | 0 Wx+V |
| 2(0) | 70 | -61.62 | 33.74 | -1191.67 | 266.38 | -126.25 | 0 -Wx+V |
| 2(0) | 70 | -61.62 | 33.74 | -1191.67 | 266.38 | -126.25 | 0 Wy+V |
| 2(0) | 70 | -61.62 | 33.74 | -1191.67 | 266.38 | -126.25 | 0 -Wy+V |
| 2(0) | 70 | -457.88 | -1012.80 | -1428.34 | 5897.92 | -1581.44 | 1 Ex+V |
| 2(0) | 70 | 342.61 | 1075.55 | -890.99 | -5414.10 | 1346.60 | 1 -Ex+V |
| 2(0) | 70 | 482.38 | -1497.10 | -1538.50 | 8606.21 | 1956.26 | 1 Ey+V |
| 2(0) | 70 | -597.65 | 1559.85 | -780.83 | -8122.40 | -2191.10 | 1 -Ey+V |

N-B = 4 Xw = 3.29 Yw = 4.06 Arfw = -1.1990 Aw = 3.1320

N-W N N-B(I1-I2)(Nw) M-M N-N V-V NE

| | | | | | | | |
|---|----|--------|-----|--------|--------|-------|--------|
| 2 | 70 | 1(4-2) | (4) | 183.16 | 670.36 | 56.40 | 1 Nmin |
|---|----|--------|-----|--------|--------|-------|--------|

| | | | | | | | | |
|---|----|--------|-----|----------|----------|----------|---|-------|
| 2 | 70 | 1(4-2) | (3) | -244.56 | -1515.77 | 70.85 | 1 | Nmax |
| 2 | 70 | 1(4-2) | (5) | 626.85 | -1280.05 | -1037.85 | 1 | Mmax |
| 2 | 70 | 1(4-2) | (5) | 626.85 | -1280.05 | -1037.85 | 1 | Vmax |
| 2 | 70 | 1(4-2) | (1) | -32.79 | -437.59 | 68.09 | 0 | V-V |
| 2 | 70 | 1(4-2) | (0) | -32.79 | -437.59 | 68.09 | 0 | Wx+V |
| 2 | 70 | 1(4-2) | (0) | -32.79 | -437.59 | 68.09 | 0 | -Wx+V |
| 2 | 70 | 1(4-2) | (0) | -32.79 | -437.59 | 68.09 | 0 | Wy+V |
| 2 | 70 | 1(4-2) | (0) | -32.79 | -437.59 | 68.09 | 0 | -Wy+V |
| 2 | 70 | 1(4-2) | (0) | -244.56 | -1515.77 | 70.85 | 1 | Ex+V |
| 2 | 70 | 1(4-2) | (0) | 183.16 | 670.36 | 56.40 | 1 | -Ex+V |
| 2 | 70 | 1(4-2) | (0) | 626.85 | -1280.05 | -1037.85 | 1 | Ey+V |
| 2 | 70 | 1(4-2) | (0) | -688.25 | 434.64 | 1165.11 | 1 | -Ey+V |
| 2 | 70 | 2(1-3) | (5) | 1402.44 | 561.60 | 1576.62 | 1 | Nmin |
| 2 | 70 | 2(1-3) | (6) | -1249.68 | -1454.11 | -1625.62 | 1 | Nmax |
| 2 | 70 | 2(1-3) | (3) | 1526.89 | -226.05 | 1021.29 | 1 | Mmax |
| 2 | 70 | 2(1-3) | (5) | 1402.44 | 561.60 | 1576.62 | 1 | Vmax |
| 2 | 70 | 2(1-3) | (1) | 83.38 | -457.64 | -26.36 | 0 | V-V |
| 2 | 70 | 2(1-3) | (0) | 83.38 | -457.64 | -26.36 | 0 | Wx+V |
| 2 | 70 | 2(1-3) | (0) | 83.38 | -457.64 | -26.36 | 0 | -Wx+V |
| 2 | 70 | 2(1-3) | (0) | 83.38 | -457.64 | -26.36 | 0 | Wy+V |
| 2 | 70 | 2(1-3) | (0) | 83.38 | -457.64 | -26.36 | 0 | -Wy+V |
| 2 | 70 | 2(1-3) | (0) | 1526.89 | -226.05 | 1021.29 | 1 | Ex+V |
| 2 | 70 | 2(1-3) | (0) | -1374.14 | -666.45 | -1070.29 | 1 | -Ex+V |
| 2 | 70 | 2(1-3) | (0) | 1402.44 | 561.60 | 1576.62 | 1 | Ey+V |
| 2 | 70 | 2(1-3) | (0) | -1249.68 | -1454.11 | -1625.62 | 1 | -Ey+V |
| 2 | 70 | 3(2-5) | (6) | -148.84 | 1134.18 | -389.42 | 1 | Nmin |
| 2 | 70 | 3(2-5) | (5) | 138.56 | -1483.65 | 357.01 | 1 | Nmax |
| 2 | 70 | 3(2-5) | (3) | -135.03 | -197.40 | -88.65 | 1 | Mmax |
| 2 | 70 | 3(2-5) | (5) | 138.56 | -1483.65 | 357.01 | 1 | Vmax |
| 2 | 70 | 3(2-5) | (1) | -5.59 | -179.41 | -17.31 | 0 | V-V |
| 2 | 70 | 3(2-5) | (0) | -5.59 | -179.41 | -17.31 | 0 | Wx+V |
| 2 | 70 | 3(2-5) | (0) | -5.59 | -179.41 | -17.31 | 0 | -Wx+V |
| 2 | 70 | 3(2-5) | (0) | -5.59 | -179.41 | -17.31 | 0 | Wy+V |
| 2 | 70 | 3(2-5) | (0) | -5.59 | -179.41 | -17.31 | 0 | -Wy+V |
| 2 | 70 | 3(2-5) | (0) | -135.03 | -197.40 | -88.65 | 1 | Ex+V |
| 2 | 70 | 3(2-5) | (0) | 124.75 | -152.07 | 56.24 | 1 | -Ex+V |
| 2 | 70 | 3(2-5) | (0) | 138.56 | -1483.65 | 357.01 | 1 | Ey+V |
| 2 | 70 | 3(2-5) | (0) | -148.84 | 1134.18 | -389.42 | 1 | -Ey+V |
| 2 | 70 | 4(7-6) | (5) | -156.98 | 663.60 | 44.60 | 1 | Nmin |
| 2 | 70 | 4(7-6) | (4) | -12.65 | -742.83 | 15.09 | 1 | Nmax |
| 2 | 70 | 4(7-6) | (5) | -156.98 | 663.60 | 44.60 | 1 | Mmax |
| 2 | 70 | 4(7-6) | (5) | -156.98 | 663.60 | 44.60 | 1 | Vmax |
| 2 | 70 | 4(7-6) | (1) | -2.18 | -117.04 | 1.58 | 0 | V-V |
| 2 | 70 | 4(7-6) | (0) | -2.18 | -117.04 | 1.58 | 0 | Wx+V |

| | | | | | | | | |
|---|----|--------|-----|---------|---------|--------|---|-------|
| 2 | 70 | 4(7-6) | (0) | -2.18 | -117.04 | 1.58 | 0 | -Wx+V |
| 2 | 70 | 4(7-6) | (0) | -2.18 | -117.04 | 1.58 | 0 | Wy+V |
| 2 | 70 | 4(7-6) | (0) | -2.18 | -117.04 | 1.58 | 0 | -Wy+V |
| 2 | 70 | 4(7-6) | (0) | 8.62 | 510.88 | -12.16 | 1 | Ex+V |
| 2 | 70 | 4(7-6) | (0) | -12.65 | -742.83 | 15.09 | 1 | -Ex+V |
| 2 | 70 | 4(7-6) | (0) | -156.98 | 663.60 | 44.60 | 1 | Ey+V |
| 2 | 70 | 4(7-6) | (0) | 152.95 | -895.54 | -41.67 | 1 | -Ey+V |

| N-W(Nw) | N | V-X | V-Y | =N= | M-X | M-Y | NE |
|---------|----|---------|---------|----------|----------|----------|---------|
| 3(5) | 71 | 739.06 | -955.66 | -146.55 | 4863.29 | 2421.12 | 1 Vxmax |
| 3(5) | 71 | 739.06 | -955.66 | -146.55 | 4863.29 | 2421.12 | 1 Vymax |
| 3(9) | 71 | 737.48 | -946.71 | 20.99 | 4905.57 | 2420.90 | 1 Nmin |
| 3(6) | 71 | -720.12 | 848.21 | -1863.87 | -5370.71 | -2418.50 | 1 Nmax |
| 3(5) | 71 | 739.06 | -955.66 | -146.55 | 4863.29 | 2421.12 | 1 Mxmax |
| 3(5) | 71 | 739.06 | -955.66 | -146.55 | 4863.29 | 2421.12 | 1 Mymax |
| 3(1) | 71 | 10.11 | -58.06 | -1038.77 | -271.88 | 1.00 | 0 V-V |
| 3(0) | 71 | 10.11 | -58.06 | -1038.77 | -271.88 | 1.00 | 0 Wx+V |
| 3(0) | 71 | 10.11 | -58.06 | -1038.77 | -271.88 | 1.00 | 0 -Wx+V |
| 3(0) | 71 | 10.11 | -58.06 | -1038.77 | -271.88 | 1.00 | 0 Wy+V |
| 3(0) | 71 | 10.11 | -58.06 | -1038.77 | -271.88 | 1.00 | 0 -Wy+V |
| 3(0) | 71 | -368.93 | -98.43 | -1478.94 | -452.23 | -1240.98 | 1 Ex+V |
| 3(0) | 71 | 387.86 | -9.02 | -531.47 | -55.19 | 1243.60 | 1 -Ex+V |
| 3(0) | 71 | 739.06 | -955.66 | -146.55 | 4863.29 | 2421.12 | 1 Ey+V |
| 3(0) | 71 | -720.12 | 848.21 | -1863.87 | -5370.71 | -2418.50 | 1 -Ey+V |

N-B = 3 Xw = 4.76 Yw = 18.26 Arfw = -0.0519 Aw = 2.3760

| N-W | N | N-B(11-12)(Nw) | M-M | N-N | V-V | NE |
|-----|----|----------------|----------|----------|---------|---------|
| 3 | 71 | 1(1-2) (5) | -1301.41 | 1598.68 | -992.74 | 1 Nmin |
| 3 | 71 | 1(1-2) (6) | 1414.49 | -2870.68 | 884.45 | 1 Nmax |
| 3 | 71 | 1(1-2) (5) | -1301.41 | 1598.68 | -992.74 | 1 Mmax |
| 3 | 71 | 1(1-2) (5) | -1301.41 | 1598.68 | -992.74 | 1 Vmax |
| 3 | 71 | 1(1-2) (1) | 60.93 | -657.37 | -58.50 | 0 V-V |
| 3 | 71 | 1(1-2) (0) | 60.93 | -657.37 | -58.50 | 0 Wx+V |
| 3 | 71 | 1(1-2) (0) | 60.93 | -657.37 | -58.50 | 0 -Wx+V |
| 3 | 71 | 1(1-2) (0) | 60.93 | -657.37 | -58.50 | 0 Wy+V |
| 3 | 71 | 1(1-2) (0) | 60.93 | -657.37 | -58.50 | 0 -Wy+V |
| 3 | 71 | 1(1-2) (0) | 443.02 | -1810.47 | -79.15 | 1 Ex+V |
| 3 | 71 | 1(1-2) (0) | -329.94 | 538.47 | -29.14 | 1 -Ex+V |
| 3 | 71 | 1(1-2) (0) | -1301.41 | 1598.68 | -992.74 | 1 Ey+V |
| 3 | 71 | 1(1-2) (0) | 1414.49 | -2870.68 | 884.45 | 1 -Ey+V |
| 3 | 71 | 2(1-3) (7) | -299.68 | 150.41 | -244.21 | 1 Nmin |

| | | | | | | | | |
|---|----|--------|-----|---------|----------|---------|---|-------|
| 3 | 71 | 2(1-3) | (4) | 310.16 | -601.95 | 253.29 | 1 | Nmax |
| 3 | 71 | 2(1-3) | (5) | 433.58 | -292.77 | 260.98 | 1 | Mmax |
| 3 | 71 | 2(1-3) | (3) | -298.72 | 109.36 | -243.39 | 1 | Vmax |
| 3 | 71 | 2(1-3) | (1) | 6.00 | -255.60 | 5.20 | 0 | V-V |
| 3 | 71 | 2(1-3) | (0) | 6.00 | -255.60 | 5.20 | 0 | Wx+V |
| 3 | 71 | 2(1-3) | (0) | 6.00 | -255.60 | 5.20 | 0 | -Wx+V |
| 3 | 71 | 2(1-3) | (0) | 6.00 | -255.60 | 5.20 | 0 | Wy+V |
| 3 | 71 | 2(1-3) | (0) | 6.00 | -255.60 | 5.20 | 0 | -Wy+V |
| 3 | 71 | 2(1-3) | (0) | -298.72 | 109.36 | -243.39 | 1 | Ex+V |
| 3 | 71 | 2(1-3) | (0) | 310.16 | -601.95 | 253.29 | 1 | -Ex+V |
| 3 | 71 | 2(1-3) | (0) | 433.58 | -292.77 | 260.98 | 1 | Ey+V |
| 3 | 71 | 2(1-3) | (0) | -422.14 | -199.82 | -251.08 | 1 | -Ey+V |
| 3 | 71 | 3(2-4) | (6) | 392.35 | 1206.63 | 424.06 | 1 | Nmin |
| 3 | 71 | 3(2-4) | (5) | -384.50 | -1452.45 | -427.50 | 1 | Nmax |
| 3 | 71 | 3(2-4) | (5) | -384.50 | -1452.45 | -427.50 | 1 | Mmax |
| 3 | 71 | 3(2-4) | (5) | -384.50 | -1452.45 | -427.50 | 1 | Vmax |
| 3 | 71 | 3(2-4) | (1) | 4.22 | -125.81 | -1.89 | 0 | V-V |
| 3 | 71 | 3(2-4) | (0) | 4.22 | -125.81 | -1.89 | 0 | Wx+V |
| 3 | 71 | 3(2-4) | (0) | 4.22 | -125.81 | -1.89 | 0 | -Wx+V |
| 3 | 71 | 3(2-4) | (0) | 4.22 | -125.81 | -1.89 | 0 | Wy+V |
| 3 | 71 | 3(2-4) | (0) | 4.22 | -125.81 | -1.89 | 0 | -Wy+V |
| 3 | 71 | 3(2-4) | (0) | 138.19 | 222.17 | 130.14 | 1 | Ex+V |
| 3 | 71 | 3(2-4) | (0) | -130.35 | -467.99 | -133.58 | 1 | -Ex+V |
| 3 | 71 | 3(2-4) | (0) | -384.50 | -1452.45 | -427.50 | 1 | Ey+V |
| 3 | 71 | 3(2-4) | (0) | 392.35 | 1206.63 | 424.06 | 1 | -Ey+V |

| N-W(Nw) | N | V-X | V-Y | =N= | M-X | M-Y | NE | |
|---------|----|-------|---------|---------|---------|--------|----|-------|
| 4(4) | 72 | 6.75 | -46.79 | -321.04 | 163.77 | 19.01 | 1 | Vxmax |
| 4(5) | 72 | -3.89 | 127.35 | 141.87 | -421.25 | -12.15 | 1 | Vymax |
| 4(5) | 72 | -3.89 | 127.35 | 141.87 | -421.25 | -12.15 | 1 | Nmin |
| 4(6) | 72 | 5.29 | -129.46 | -466.12 | 417.79 | 14.95 | 1 | Nmax |
| 4(5) | 72 | -3.89 | 127.35 | 141.87 | -421.25 | -12.15 | 1 | Mxmax |
| 4(3) | 72 | -5.35 | 44.68 | -3.22 | -167.23 | -16.22 | 1 | Mymax |
| 4(1) | 72 | 0.74 | -1.01 | -162.36 | -2.14 | 1.47 | 0 | V-V |
| 4(0) | 72 | 0.74 | -1.01 | -162.36 | -2.14 | 1.47 | 0 | Wx+V |
| 4(0) | 72 | 0.74 | -1.01 | -162.36 | -2.14 | 1.47 | 0 | -Wx+V |
| 4(0) | 72 | 0.74 | -1.01 | -162.36 | -2.14 | 1.47 | 0 | Wy+V |
| 4(0) | 72 | 0.74 | -1.01 | -162.36 | -2.14 | 1.47 | 0 | -Wy+V |
| 4(0) | 72 | -5.35 | 44.68 | -3.22 | -167.23 | -16.22 | 1 | Ex+V |
| 4(0) | 72 | 6.75 | -46.79 | -321.04 | 163.77 | 19.01 | 1 | -Ex+V |
| 4(0) | 72 | -3.89 | 127.35 | 141.87 | -421.25 | -12.15 | 1 | Ey+V |
| 4(0) | 72 | 5.29 | -129.46 | -466.12 | 417.79 | 14.95 | 1 | -Ey+V |

N-B = 2 Xw = 0.47 Yw = 0.17 Arfw = 1.2051 Aw = 0.5760

| N-W | N | N-B(I1-I2) (Nw) | M-M | N-N | V-V | NE |
|-----|----|-----------------|---------|---------|---------|---------|
| 4 | 72 | 1(1-2) (10) | -178.32 | 15.39 | -122.58 | 1 Nmin |
| 4 | 72 | 1(1-2) (5) | 177.03 | -205.60 | 120.31 | 1 Nmax |
| 4 | 72 | 1(1-2) (5) | 177.03 | -205.60 | 120.31 | 1 Mmax |
| 4 | 72 | 1(1-2) (5) | 177.03 | -205.60 | 120.31 | 1 Vmax |
| 4 | 72 | 1(1-2) (1) | -0.61 | -104.26 | -1.21 | 0 V-V |
| 4 | 72 | 1(1-2) (0) | -0.61 | -104.26 | -1.21 | 0 Wx+V |
| 4 | 72 | 1(1-2) (0) | -0.61 | -104.26 | -1.21 | 0 -Wx+V |
| 4 | 72 | 1(1-2) (0) | -0.61 | -104.26 | -1.21 | 0 Wy+V |
| 4 | 72 | 1(1-2) (0) | -0.61 | -104.26 | -1.21 | 0 -Wy+V |
| 4 | 72 | 1(1-2) (0) | 81.52 | -109.27 | 43.64 | 1 Ex+V |
| 4 | 72 | 1(1-2) (0) | -82.92 | -98.23 | -46.11 | 1 -Ex+V |
| 4 | 72 | 1(1-2) (0) | 177.03 | -205.60 | 120.31 | 1 Ey+V |
| 4 | 72 | 1(1-2) (0) | -178.44 | -1.91 | -122.79 | 1 -Ey+V |
| 4 | 72 | 2(1-3) (5) | 6.89 | 347.47 | 41.92 | 1 Nmin |
| 4 | 72 | 2(1-3) (6) | -5.22 | -464.22 | -41.36 | 1 Nmax |
| 4 | 72 | 2(1-3) (5) | 6.89 | 347.47 | 41.92 | 1 Mmax |
| 4 | 72 | 2(1-3) (5) | 6.89 | 347.47 | 41.92 | 1 Vmax |
| 4 | 72 | 2(1-3) (1) | 0.89 | -58.10 | 0.33 | 0 V-V |
| 4 | 72 | 2(1-3) (0) | 0.89 | -58.10 | 0.33 | 0 Wx+V |
| 4 | 72 | 2(1-3) (0) | 0.89 | -58.10 | 0.33 | 0 -Wx+V |
| 4 | 72 | 2(1-3) (0) | 0.89 | -58.10 | 0.33 | 0 Wy+V |
| 4 | 72 | 2(1-3) (0) | 0.89 | -58.10 | 0.33 | 0 -Wy+V |
| 4 | 72 | 2(1-3) (0) | -3.60 | 106.05 | 10.99 | 1 Ex+V |
| 4 | 72 | 2(1-3) (0) | 5.27 | -222.81 | -10.43 | 1 -Ex+V |
| 4 | 72 | 2(1-3) (0) | 6.89 | 347.47 | 41.92 | 1 Ey+V |
| 4 | 72 | 2(1-3) (0) | -5.22 | -464.22 | -41.36 | 1 -Ey+V |

| N-W(Nw) | N | V-X | V-Y | =N= | M-X | M-Y | NE |
|---------|----|--------|---------|---------|---------|--------|---------|
| 5(5) | 73 | -19.86 | 25.57 | -254.79 | 33.84 | -52.23 | 1 Vxmax |
| 5(3) | 73 | -4.07 | -131.80 | -73.63 | 486.24 | -8.35 | 1 Vymax |
| 5(7) | 73 | -3.83 | -131.82 | -23.56 | 484.90 | -7.80 | 1 Nmin |
| 5(4) | 73 | 1.16 | 132.04 | -527.19 | -470.19 | 1.72 | 1 Nmax |
| 5(3) | 73 | -4.07 | -131.80 | -73.63 | 486.24 | -8.35 | 1 Mxmax |
| 5(5) | 73 | -19.86 | 25.57 | -254.79 | 33.84 | -52.23 | 1 Mymax |
| 5(1) | 73 | -1.54 | 0.23 | -306.44 | 8.66 | -3.51 | 0 V-V |
| 5(0) | 73 | -1.54 | 0.23 | -306.44 | 8.66 | -3.51 | 0 Wx+V |
| 5(0) | 73 | -1.54 | 0.23 | -306.44 | 8.66 | -3.51 | 0 -Wx+V |
| 5(0) | 73 | -1.54 | 0.23 | -306.44 | 8.66 | -3.51 | 0 Wy+V |

| | | | | | | | | |
|------|----|--------|---------|---------|---------|--------|---|-------|
| 5(0) | 73 | -1.54 | 0.23 | -306.44 | 8.66 | -3.51 | 0 | -Wy+V |
| 5(0) | 73 | -4.07 | -131.80 | -73.63 | 486.24 | -8.35 | 1 | Ex+V |
| 5(0) | 73 | 1.16 | 132.04 | -527.19 | -470.19 | 1.72 | 1 | -Ex+V |
| 5(0) | 73 | -19.86 | 25.57 | -254.79 | 33.84 | -52.23 | 1 | Ey+V |
| 5(0) | 73 | 16.95 | -25.34 | -346.02 | -17.79 | 45.60 | 1 | -Ey+V |

N-B = 2 Xw = 0.64 Yw = 6.27 Arfw = -1.5268 Aw = 0.8280

N-W N N-B(I1-I2) (Nw) M-M N-N V-V NE

| | | | | | | | | |
|---|----|--------|-----|---------|---------|---------|---|-------|
| 5 | 73 | 1(1-2) | (8) | -216.70 | -48.07 | -131.95 | 1 | Nmin |
| 5 | 73 | 1(1-2) | (3) | 224.44 | -294.05 | 131.85 | 1 | Nmax |
| 5 | 73 | 1(1-2) | (3) | 224.44 | -294.05 | 131.85 | 1 | Mmax |
| 5 | 73 | 1(1-2) | (3) | 224.44 | -294.05 | 131.85 | 1 | Vmax |
| 5 | 73 | 1(1-2) | (1) | 4.55 | -190.59 | -0.16 | 0 | V-V |
| 5 | 73 | 1(1-2) | (0) | 4.55 | -190.59 | -0.16 | 0 | Wx+V |
| 5 | 73 | 1(1-2) | (0) | 4.55 | -190.59 | -0.16 | 0 | -Wx+V |
| 5 | 73 | 1(1-2) | (0) | 4.55 | -190.59 | -0.16 | 0 | Wy+V |
| 5 | 73 | 1(1-2) | (0) | 4.55 | -190.59 | -0.16 | 0 | -Wy+V |
| 5 | 73 | 1(1-2) | (0) | 224.44 | -294.05 | 131.85 | 1 | Ex+V |
| 5 | 73 | 1(1-2) | (0) | -215.99 | -79.17 | -131.96 | 1 | -Ex+V |
| 5 | 73 | 1(1-2) | (0) | 24.09 | -166.53 | -24.67 | 1 | Ey+V |
| 5 | 73 | 1(1-2) | (0) | -15.64 | -206.69 | 24.57 | 1 | -Ey+V |
| 5 | 73 | 2(4-3) | (3) | -5.66 | 220.42 | -1.73 | 1 | Nmin |
| 5 | 73 | 2(4-3) | (4) | -0.82 | -448.02 | 4.64 | 1 | Nmax |
| 5 | 73 | 2(4-3) | (5) | -51.54 | -88.26 | 20.96 | 1 | Mmax |
| 5 | 73 | 2(4-3) | (5) | -51.54 | -88.26 | 20.96 | 1 | Vmax |
| 5 | 73 | 2(4-3) | (1) | -3.43 | -115.86 | 1.54 | 0 | V-V |
| 5 | 73 | 2(4-3) | (0) | -3.43 | -115.86 | 1.54 | 0 | Wx+V |
| 5 | 73 | 2(4-3) | (0) | -3.43 | -115.86 | 1.54 | 0 | -Wx+V |
| 5 | 73 | 2(4-3) | (0) | -3.43 | -115.86 | 1.54 | 0 | Wy+V |
| 5 | 73 | 2(4-3) | (0) | -3.43 | -115.86 | 1.54 | 0 | -Wy+V |
| 5 | 73 | 2(4-3) | (0) | -5.66 | 220.42 | -1.73 | 1 | Ex+V |
| 5 | 73 | 2(4-3) | (0) | -0.82 | -448.02 | 4.64 | 1 | -Ex+V |
| 5 | 73 | 2(4-3) | (0) | -51.54 | -88.26 | 20.96 | 1 | Ey+V |
| 5 | 73 | 2(4-3) | (0) | 45.06 | -139.34 | -18.04 | 1 | -Ey+V |

N-W(Nw) N V-X V-Y =N= M-X M-Y NE

| | | | | | | | | |
|------|----|-------|-------|---------|--------|-------|---|-------|
| 6(3) | 74 | -0.77 | 2.31 | -100.72 | -2.22 | -2.91 | 1 | Vxmax |
| 6(5) | 74 | 0.45 | 27.07 | -206.53 | -72.71 | 1.41 | 1 | Vymax |
| 6(7) | 74 | -0.77 | 2.05 | -72.31 | -1.63 | -2.91 | 1 | Nmin |
| 6(4) | 74 | 0.77 | 0.76 | -240.18 | -4.92 | 2.84 | 1 | Nmax |
| 6(5) | 74 | 0.45 | 27.07 | -206.53 | -72.71 | 1.41 | 1 | Mxmax |

| | | | | | | | | |
|------|----|-------|--------|---------|--------|-------|---|-------|
| 6(3) | 74 | -0.77 | 2.31 | -100.72 | -2.22 | -2.91 | 1 | Mymax |
| 6(1) | 74 | 0.00 | 1.63 | -174.18 | -3.79 | -0.04 | 0 | V-V |
| 6(0) | 74 | 0.00 | 1.63 | -174.18 | -3.79 | -0.04 | 0 | Wx+V |
| 6(0) | 74 | 0.00 | 1.63 | -174.18 | -3.79 | -0.04 | 0 | -Wx+V |
| 6(0) | 74 | 0.00 | 1.63 | -174.18 | -3.79 | -0.04 | 0 | Wy+V |
| 6(0) | 74 | 0.00 | 1.63 | -174.18 | -3.79 | -0.04 | 0 | -Wy+V |
| 6(0) | 74 | -0.77 | 2.31 | -100.72 | -2.22 | -2.91 | 1 | Ex+V |
| 6(0) | 74 | 0.77 | 0.76 | -240.18 | -4.92 | 2.84 | 1 | -Ex+V |
| 6(0) | 74 | 0.45 | 27.07 | -206.53 | -72.71 | 1.41 | 1 | Ey+V |
| 6(0) | 74 | -0.44 | -23.99 | -134.37 | 65.57 | -1.48 | 1 | -Ey+V |

N-B = 1 Xw = 0.00 Yw = 9.22 Arfw = 0.0000 Aw = 0.3960

N-W N N-B(I1-I2) (Nw) M-M N-N V-V NE

| | | | | | | | | |
|---|----|--------|-----|--------|---------|--------|---|-------|
| 6 | 74 | 1(3-2) | (7) | -1.63 | -72.31 | 2.05 | 1 | Nmin |
| 6 | 74 | 1(3-2) | (4) | -4.92 | -240.18 | 0.76 | 1 | Nmax |
| 6 | 74 | 1(3-2) | (5) | -72.71 | -206.53 | 27.06 | 1 | Mmax |
| 6 | 74 | 1(3-2) | (5) | -72.71 | -206.53 | 27.06 | 1 | Vmax |
| 6 | 74 | 1(3-2) | (1) | -3.79 | -174.18 | 1.63 | 0 | V-V |
| 6 | 74 | 1(3-2) | (0) | -3.79 | -174.18 | 1.63 | 0 | Wx+V |
| 6 | 74 | 1(3-2) | (0) | -3.79 | -174.18 | 1.63 | 0 | -Wx+V |
| 6 | 74 | 1(3-2) | (0) | -3.79 | -174.18 | 1.63 | 0 | Wy+V |
| 6 | 74 | 1(3-2) | (0) | -3.79 | -174.18 | 1.63 | 0 | -Wy+V |
| 6 | 74 | 1(3-2) | (0) | -2.22 | -100.72 | 2.31 | 1 | Ex+V |
| 6 | 74 | 1(3-2) | (0) | -4.92 | -240.18 | 0.76 | 1 | -Ex+V |
| 6 | 74 | 1(3-2) | (0) | -72.71 | -206.53 | 27.06 | 1 | Ey+V |
| 6 | 74 | 1(3-2) | (0) | 65.57 | -134.37 | -23.99 | 1 | -Ey+V |

N-W(Nw) N V-X V-Y =N= M-X M-Y NE

| | | | | | | | | |
|-------|----|-------|--------|---------|--------|-------|---|-------|
| 7(3) | 75 | -0.70 | -1.74 | -91.86 | 4.34 | -2.60 | 1 | Vxmax |
| 7(5) | 75 | 0.77 | 13.49 | -250.08 | -38.24 | 2.70 | 1 | Vymax |
| 7(10) | 75 | -0.75 | -13.91 | -5.42 | 38.24 | -2.72 | 1 | Nmin |
| 7(5) | 75 | 0.77 | 13.49 | -250.08 | -38.24 | 2.70 | 1 | Nmax |
| 7(5) | 75 | 0.77 | 13.49 | -250.08 | -38.24 | 2.70 | 1 | Mxmax |
| 7(3) | 75 | -0.70 | -1.74 | -91.86 | 4.34 | -2.60 | 1 | Mymax |
| 7(1) | 75 | 0.01 | -0.22 | -142.55 | -0.04 | -0.01 | 0 | V-V |
| 7(0) | 75 | 0.01 | -0.22 | -142.55 | -0.04 | -0.01 | 0 | Wx+V |
| 7(0) | 75 | 0.01 | -0.22 | -142.55 | -0.04 | -0.01 | 0 | -Wx+V |
| 7(0) | 75 | 0.01 | -0.22 | -142.55 | -0.04 | -0.01 | 0 | Wy+V |
| 7(0) | 75 | 0.01 | -0.22 | -142.55 | -0.04 | -0.01 | 0 | -Wy+V |
| 7(0) | 75 | -0.70 | -1.74 | -91.86 | 4.34 | -2.60 | 1 | Ex+V |
| 7(0) | 75 | 0.73 | 1.29 | -186.86 | -4.35 | 2.58 | 1 | -Ex+V |

| | | | | | | | | |
|------|----|-------|--------|---------|--------|-------|---|-------|
| 7(0) | 75 | 0.77 | 13.49 | -250.08 | -38.24 | 2.70 | 1 | Ey+V |
| 7(0) | 75 | -0.74 | -13.94 | -28.64 | 38.24 | -2.72 | 1 | -Ey+V |

N-B = 1 Xw = 0.00 Yw = 12.23 Arfw = 0.0000 Aw = 0.3240

N-W N N-B(I1-I2) (Nw) M-M N-N V-V NE

| | | | | | | | | |
|---|----|--------|------|--------|---------|--------|---|-------|
| 7 | 75 | 1(3-2) | (10) | 38.24 | -5.42 | -13.91 | 1 | Nmin |
| 7 | 75 | 1(3-2) | (5) | -38.25 | -250.08 | 13.49 | 1 | Nmax |
| 7 | 75 | 1(3-2) | (5) | -38.25 | -250.08 | 13.49 | 1 | Mmax |
| 7 | 75 | 1(3-2) | (5) | -38.25 | -250.08 | 13.49 | 1 | Vmax |
| 7 | 75 | 1(3-2) | (1) | -0.04 | -142.55 | -0.22 | 0 | V-V |
| 7 | 75 | 1(3-2) | (0) | -0.04 | -142.55 | -0.22 | 0 | Wx+V |
| 7 | 75 | 1(3-2) | (0) | -0.04 | -142.55 | -0.22 | 0 | -Wx+V |
| 7 | 75 | 1(3-2) | (0) | -0.04 | -142.55 | -0.22 | 0 | Wy+V |
| 7 | 75 | 1(3-2) | (0) | -0.04 | -142.55 | -0.22 | 0 | -Wy+V |
| 7 | 75 | 1(3-2) | (0) | 4.34 | -91.86 | -1.74 | 1 | Ex+V |
| 7 | 75 | 1(3-2) | (0) | -4.35 | -186.86 | 1.29 | 1 | -Ex+V |
| 7 | 75 | 1(3-2) | (0) | -38.25 | -250.08 | 13.49 | 1 | Ey+V |
| 7 | 75 | 1(3-2) | (0) | 38.24 | -28.64 | -13.95 | 1 | -Ey+V |

N-W(Nw) N V-X V-Y =N= M-X M-Y NE

| | | | | | | | | |
|------|----|--------|---------|---------|---------|--------|---|-------|
| 8(3) | 76 | -13.18 | -48.28 | -408.74 | 180.54 | -42.26 | 1 | Vxmax |
| 8(5) | 76 | -10.02 | -171.00 | -198.37 | 564.66 | -28.07 | 1 | Vymax |
| 8(8) | 76 | 12.41 | 50.68 | -38.04 | -180.07 | 39.20 | 1 | Nmin |
| 8(3) | 76 | -13.18 | -48.28 | -408.74 | 180.54 | -42.26 | 1 | Nmax |
| 8(5) | 76 | -10.02 | -171.00 | -198.37 | 564.66 | -28.07 | 1 | Mxmax |
| 8(3) | 76 | -13.18 | -48.28 | -408.74 | 180.54 | -42.26 | 1 | Mymax |
| 8(1) | 76 | -0.46 | 1.50 | -249.46 | 0.22 | -1.83 | 0 | V-V |
| 8(0) | 76 | -0.46 | 1.50 | -249.46 | 0.22 | -1.83 | 0 | Wx+V |
| 8(0) | 76 | -0.46 | 1.50 | -249.46 | 0.22 | -1.83 | 0 | -Wx+V |
| 8(0) | 76 | -0.46 | 1.50 | -249.46 | 0.22 | -1.83 | 0 | Wy+V |
| 8(0) | 76 | -0.46 | 1.50 | -249.46 | 0.22 | -1.83 | 0 | -Wy+V |
| 8(0) | 76 | -13.18 | -48.28 | -408.74 | 180.54 | -42.26 | 1 | Ex+V |
| 8(0) | 76 | 12.34 | 50.90 | -78.66 | -180.02 | 38.92 | 1 | -Ex+V |
| 8(0) | 76 | -10.02 | -171.00 | -198.37 | 564.66 | -28.07 | 1 | Ey+V |
| 8(0) | 76 | 9.18 | 173.62 | -289.03 | -564.14 | 24.73 | 1 | -Ey+V |

N-B = 2 Xw = 4.68 Yw = 0.27 Arfw = -0.9984 Aw = 0.6480

N-W N N-B(I1-I2) (Nw) M-M N-N V-V NE

| | | | | | | | | |
|---|----|--------|-----|--------|---------|--------|---|------|
| 8 | 76 | 1(1-2) | (6) | -36.09 | 286.02 | -86.33 | 1 | Nmin |
| 8 | 76 | 1(1-2) | (5) | 34.02 | -501.89 | 84.20 | 1 | Nmax |

| | | | | | | | | |
|---|----|--------|-----|---------|---------|---------|---|-------|
| 8 | 76 | 1(1-2) | (5) | 34.02 | -501.89 | 84.20 | 1 | Mmax |
| 8 | 76 | 1(1-2) | (5) | 34.02 | -501.89 | 84.20 | 1 | Vmax |
| 8 | 76 | 1(1-2) | (1) | -1.14 | -110.41 | -1.20 | 0 | V-V |
| 8 | 76 | 1(1-2) | (0) | -1.14 | -110.41 | -1.20 | 0 | Wx+V |
| 8 | 76 | 1(1-2) | (0) | -1.14 | -110.41 | -1.20 | 0 | -Wx+V |
| 8 | 76 | 1(1-2) | (0) | -1.14 | -110.41 | -1.20 | 0 | Wy+V |
| 8 | 76 | 1(1-2) | (0) | -1.14 | -110.41 | -1.20 | 0 | -Wy+V |
| 8 | 76 | 1(1-2) | (0) | -10.25 | -302.52 | 15.08 | 1 | Ex+V |
| 8 | 76 | 1(1-2) | (0) | 8.18 | 86.66 | -17.20 | 1 | -Ex+V |
| 8 | 76 | 1(1-2) | (0) | 34.02 | -501.89 | 84.20 | 1 | Ey+V |
| 8 | 76 | 1(1-2) | (0) | -36.09 | 286.02 | -86.33 | 1 | -Ey+V |
| 8 | 76 | 2(1-3) | (5) | 179.56 | 303.52 | 149.17 | 1 | Nmin |
| 8 | 76 | 2(1-3) | (6) | -176.75 | -575.05 | -150.92 | 1 | Nmax |
| 8 | 76 | 2(1-3) | (5) | 179.56 | 303.52 | 149.17 | 1 | Mmax |
| 8 | 76 | 2(1-3) | (5) | 179.56 | 303.52 | 149.17 | 1 | Vmax |
| 8 | 76 | 2(1-3) | (1) | 1.52 | -139.05 | -1.01 | 0 | V-V |
| 8 | 76 | 2(1-3) | (0) | 1.52 | -139.05 | -1.01 | 0 | Wx+V |
| 8 | 76 | 2(1-3) | (0) | 1.52 | -139.05 | -1.01 | 0 | -Wx+V |
| 8 | 76 | 2(1-3) | (0) | 1.52 | -139.05 | -1.01 | 0 | Wy+V |
| 8 | 76 | 2(1-3) | (0) | 1.52 | -139.05 | -1.01 | 0 | -Wy+V |
| 8 | 76 | 2(1-3) | (0) | 84.00 | -106.22 | 47.72 | 1 | Ex+V |
| 8 | 76 | 2(1-3) | (0) | -81.19 | -165.32 | -49.47 | 1 | -Ex+V |
| 8 | 76 | 2(1-3) | (0) | 179.56 | 303.52 | 149.17 | 1 | Ey+V |
| 8 | 76 | 2(1-3) | (0) | -176.75 | -575.05 | -150.92 | 1 | -Ey+V |

The coordinate points of $M_x=0$ and $M_y=0$

| | | | | | | | |
|-----------|--------|-------|--------|-------|---------|----------|-------|
| Tower = 1 | Xodf = | 41.08 | Yodf = | 10.67 | SGM-N = | -24341.5 | Vxmax |
| Tower = 1 | Xodf = | 40.25 | Yodf = | 10.68 | SGM-N = | -24856.0 | Vymax |
| Tower = 1 | Xodf = | 47.02 | Yodf = | 10.28 | SGM-N = | -17694.3 | Nmin |
| Tower = 1 | Xodf = | 36.68 | Yodf = | 11.12 | SGM-N = | -28515.1 | Nmax |
| Tower = 1 | Xodf = | 40.22 | Yodf = | 10.65 | SGM-N = | -24776.4 | Mxmax |
| Tower = 1 | Xodf = | 41.54 | Yodf = | 10.81 | SGM-N = | -23959.9 | Mymax |
| Tower = 1 | Xodf = | 40.64 | Yodf = | 10.80 | SGM-N = | -25769.2 | V-V |
| Tower = 1 | Xodf = | 40.64 | Yodf = | 10.80 | SGM-N = | -25769.2 | Wx+V |
| Tower = 1 | Xodf = | 40.64 | Yodf = | 10.80 | SGM-N = | -25769.2 | -Wx+V |
| Tower = 1 | Xodf = | 40.64 | Yodf = | 10.80 | SGM-N = | -25769.2 | Wy+V |
| Tower = 1 | Xodf = | 40.64 | Yodf = | 10.80 | SGM-N = | -25769.2 | -Wy+V |
| Tower = 1 | Xodf = | 40.55 | Yodf = | 10.65 | SGM-N = | -24610.8 | Ex+V |
| Tower = 1 | Xodf = | 40.45 | Yodf = | 10.94 | SGM-N = | -24610.8 | -Ex+V |
| Tower = 1 | Xodf = | 39.77 | Yodf = | 10.64 | SGM-N = | -24610.8 | Ey+V |
| Tower = 1 | Xodf = | 41.23 | Yodf = | 10.96 | SGM-N = | -24610.8 | -Ey+V |

6 • Output of Reinforcements

Output of Reinforcements

PJ-1.OUT

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Symbols:

- * B,H --- Height and Width of section(m)
- * Lc,Lw,Lg,Lb --- Length of column, shear wall, brace and beam(m)
- * COLUMN:
- * (NUc)Uc --- Ratio of axial force to section axial strength($N/A \cdot f_c$)*
- * NUc --- Combinatorial number which controls Uc
- * Asc,x(y)(NAsc) --- Reinforcement area at one side of column(mm²) *
- * Asc(NAsc)--- Reinforcement area of column of circular section(mm²)*
- * NAsc --- Combinatorial number which controls Asc
- * 0 --- Minimum reinforcement
- * Mc,Nc(x,y) --- Moment and axial force which controls Asc *
- * Rsc --- Ratio of reinforcement of column($A_s/B \cdot H$) *
- * Asvc(NAsvc)--- Reinforcement area of stirrups for column(mm²) *
- * in certain spacing *
- * NAsvc --- Combinatorial number which controls Asvc *
- * 0 --- Minimum reinforcement *
- * Vc,Nc(x,y) --- Shear and axial force which controls Asvc *
- * Rsvc --- Volumetric ratio of stirrups of column(V_s/V_c) *
- * Vs --- Volume of stirrups in column *
- * Vc --- Volume of concrete $V_c = B \cdot H \cdot S_c$ *
- * Sc --- Distance of stirrups in column *
- * WALL:
- * Arfw --- Angle of section between wall axis and coordinate axis *
- * N(I1-I2) --- Number of branch of shear wall *
- * I1-I2 --- Number of nodes in front and back of wall branch *
- * T*L --- Thickness and length of wall branch *
- * aa --- Thickness of nominal cover(mm)(thickness of the wall) *
- * As --- Reinforcement area in the embedded column at one end(mm²) *
- * of branch *
- * Rs --- Ratio of reinforcement of branch($A_s/2 \cdot T \cdot T$) *
- * (NAs)M,N --- Moment and axial force which controls As *
- * NAs --- Combinatorial number which controls As *

- * Ash --- Horizontal reinforcement area in certain spacing(mm²) *
 - * Rsh --- Ratio of horizontal reinforcement(Ash/T*Swh) *
 - * (NAsh)V,Nh --- Shear and axial force which controls Ash *
 - * NAsh --- Combinatorial number which controls Ash *
 - * Swh --- Distance of horizontal bar in wall *
 - * BEAM: *
 - * +M(Nm) --- Maximum positive moment of beam on I,1,2,3,J *
 - * with equal spacing *
 - * -M(Nm) --- Maximum negative moment of beam on I,1,2,3,J *
 - * with equal spacing *
 - * Nm --- Combinatorial number which controls +M and -M *
 - * As(NA_s) --- Reinforcement area of beam on I,1,2,3,J(mm²) *
 - * with equal spacing *
 - * NA_s --- Combinatorial number which controls As *
 - * 0 --- Minimum reinforcement *
 - * R_s --- Ratio of reinforcement of beam(As/B*H) *
 - * V(NV) --- Maximum combined shear of beam *
 - * NV --- Combinatorial number which controls V *
 - * Asv(NA_{sv}) --- Reinforcement area of stirrups(mm²) *
 - * NA_{sv} --- Combinatorial number which controls Asv *
 - * 0 --- Minimum reinforcement *
 - * R_{sv} --- Ratio of stirrups of beam(Asv/B*S_b) *
 - * T & V(NTV) --- Maximum Combined torsion and shear(kN-m) *
 - * NTV --- Combinatorial number which controls T & V *
 - * Ast(NA_{st}) --- Longitudinal reinforcement area by torsion and shear*
 - * NA_{st} --- Combinatorial number which controls Ast *
 - * 0 --- Minimum reinforcement *
 - * Astv --- Reinforcement area of stirrups by torsion and shear(mm²) *
 - * Ast1 --- Single reinforcement area of stirrups for torsion(mm²) *
 - * S_b --- Distance of stirrups in beam *
- *****

| The Coefficients of Internal Force | | | | | | | |
|------------------------------------|--------|--------|-------|-------|-------|-------|-------|
| No. | E-X | E-Y | W-X | W-Y | V-D | V-L | V-E |
| 1 | 0.000 | 0.000 | 0.000 | 0.000 | 1.200 | 1.400 | 0.000 |
| 2 | 0.000 | 0.000 | 0.000 | 0.000 | 1.000 | 1.400 | 0.000 |
| 3 | 1.300 | 0.000 | 0.000 | 0.000 | 1.200 | 0.600 | 0.000 |
| 4 | -1.300 | 0.000 | 0.000 | 0.000 | 1.200 | 0.600 | 0.000 |
| 5 | 0.000 | 1.300 | 0.000 | 0.000 | 1.200 | 0.600 | 0.000 |
| 6 | 0.000 | -1.300 | 0.000 | 0.000 | 1.200 | 0.600 | 0.000 |

| | | | | | | | |
|----|--------|--------|-------|-------|-------|-------|-------|
| 7 | 1.300 | 0.000 | 0.000 | 0.000 | 1.000 | 0.500 | 0.000 |
| 8 | -1.300 | 0.000 | 0.000 | 0.000 | 1.000 | 0.500 | 0.000 |
| 9 | 0.000 | 1.300 | 0.000 | 0.000 | 1.000 | 0.500 | 0.000 |
| 10 | 0.000 | -1.300 | 0.000 | 0.000 | 1.000 | 0.500 | 0.000 |

No. of Floor = 1

N-C= 1 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(6) Uc = N/Ac/fc = 0.13 N = -264.

(1) Mx = -62. Ncx = -275.

(1) My = 0. Ncy = -275.

Ascx(1)= 322. Asc(1)= 200. Rsc=0.65 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D 6

N-C= 2 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(6) Uc = N/Ac/fc = 0.13 N = -265.

(1) Mx = -64. Ncx = -275.

(1) My = 0. Ncy = -275.

Ascx(1)= 341. Asc(1)= 200. Rsc=0.68 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D 6

N-C= 3 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(6) Uc = N/Ac/fc = 0.13 N = -266.

(1) Mx = -64. Ncx = -275.

(1) My = 0. Ncy = -275.

Ascx(1)= 342. Asc(1)= 200. Rsc=0.68 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D 6

N-C= 4 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(6) Uc = N/Ac/fc = 0.13 N = -267.

(6) Mx = -77. Ncx = -267.

(1) My = 0. Ncy = -276.

Ascx(6)= 355. Asc(1)= 200. Rsc=0.69 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D 6

N-C= 5 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(6) Uc = N/Ac/fc = 0.13 N = -266.

(6) Mx = -80. Ncx = -266.

(1) My = -1. Ncy = -274.

Ascx(6)= 382. Asc(1)= 200. Rsc=0.73 Asvc(0)= 70.0 Rsvc=0.40

| | 2D18 | 1D18 | | 3D 6 |
|--------------------|---------------------|----------|-------|----------------------------------|
| N-C= | 6 (1)B*H(mm)= 400* | 400 | Lc= | 6.00(m) |
| (6) Uc = N/Ac/fc = | 0.14 | N = | -278. | |
| (6) Mx = | -83. | Ncx = | -278. | |
| (1) My = | 5. | Ncy = | -285. | |
| Ascx(6)= | 393. | Ascy(1)= | 200. | Rsc=0.74 Asvc(0)= 70.0 Rsvc=0.40 |
| | 2D18 | 1D18 | | 3D 6 |
| N-C= | 7 (1)B*H(mm)= 400* | 400 | Lc= | 6.00(m) |
| (6) Uc = N/Ac/fc = | 0.08 | N = | -170. | |
| (6) Mx = | -72. | Ncx = | -170. | |
| (1) My = | -35. | Ncy = | -170. | |
| Ascx(6)= | 397. | Ascy(1)= | 200. | Rsc=0.75 Asvc(0)= 70.0 Rsvc=0.40 |
| | 2D18 | 1D18 | | 3D 6 |
| N-C= | 8 (1)B*H(mm)= 400* | 400 | Lc= | 6.00(m) |
| (6) Uc = N/Ac/fc = | 0.09 | N = | -173. | |
| (6) Mx = | -72. | Ncx = | -173. | |
| (1) My = | 35. | Ncy = | -170. | |
| Ascx(6)= | 396. | Ascy(1)= | 200. | Rsc=0.74 Asvc(0)= 70.0 Rsvc=0.40 |
| | 2D18 | 1D18 | | 3D 6 |
| N-C= | 9 (1)B*H(mm)= 400* | 400 | Lc= | 6.00(m) |
| (6) Uc = N/Ac/fc = | 0.14 | N = | -279. | |
| (6) Mx = | -90. | Ncx = | -279. | |
| (1) My = | -6. | Ncy = | -285. | |
| Ascx(6)= | 446. | Ascy(1)= | 200. | Rsc=0.81 Asvc(0)= 70.0 Rsvc=0.40 |
| | 2D18 | 1D18 | | 3D 6 |
| N-C= | 10 (1)B*H(mm)= 400* | 400 | Lc= | 6.00(m) |
| (6) Uc = N/Ac/fc = | 0.13 | N = | -270. | |
| (6) Mx = | -95. | Ncx = | -270. | |
| (1) My = | 1. | Ncy = | -274. | |
| Ascx(6)= | 484. | Ascy(1)= | 200. | Rsc=0.85 Asvc(0)= 70.0 Rsvc=0.40 |
| | 2D18 | 1D18 | | 3D 6 |
| N-C= | 11 (1)B*H(mm)= 400* | 400 | Lc= | 6.00(m) |
| (6) Uc = N/Ac/fc = | 0.14 | N = | -272. | |
| (6) Mx = | -98. | Ncx = | -272. | |
| (1) My = | 0. | Ncy = | -276. | |
| Ascx(6)= | 508. | Ascy(1)= | 200. | Rsc=0.88 Asvc(0)= 70.0 Rsvc=0.40 |
| | 2D18 | 1D18 | | 3D 6 |

N-C= 12 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.14 N = -273.
 (6) Mx = -102. Ncx = -273.
 (1) My = 0. Ncy = -275.
 Asc_x(6)= 533. Asc_y(1)= 200. Rsc= 0.92 Asvc(0)= 70.0 Rsvc= 0.40
 3D18 1D18 3D 6

N-C= 13 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.14 N = -274.
 (6) Mx = -105. Ncx = -274.
 (1) My = 0. Ncy = -275.
 Asc_x(6)= 558. Asc_y(1)= 200. Rsc= 0.95 Asvc(0)= 70.0 Rsvc= 0.40
 3D18 1D18 3D 6

N-C= 14 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.14 N = -275.
 (6) Mx = -109. Ncx = -275.
 (1) My = 0. Ncy = -276.
 Asc_x(6)= 583. Asc_y(1)= 200. Rsc= 0.98 Asvc(0)= 70.0 Rsvc= 0.40
 3D18 1D18 3D 6

N-C= 15 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.14 N = -274.
 (6) Mx = -112. Ncx = -274.
 (1) My = -1. Ncy = -274.
 Asc_x(6)= 609. Asc_y(1)= 200. Rsc= 1.01 Asvc(0)= 70.0 Rsvc= 0.40
 3D18 1D18 3D 6

N-C= 16 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.14 N = -285.
 (6) Mx = -115. Ncx = -285.
 (1) My = 5. Ncy = -284.
 Asc_x(6)= 624. Asc_y(1)= 200. Rsc= 1.03 Asvc(0)= 70.0 Rsvc= 0.40
 3D18 1D18 3D 6

N-C= 17 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.09 N = -179.
 (6) Mx = -105. Ncx = -179.
 (1) My = -31. Ncy = -172.
 Asc_x(6)= 627. Asc_y(1)= 200. Rsc= 1.03 Asvc(0)= 70.0 Rsvc= 0.40
 3D18 1D18 3D 6

N-C= 18 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) Uc = N/Ac/fc = 0.19 N = -389.

Ascx(0)= 200. Ascy(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 19 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(5) Uc = N/Ac/fc = 0.19 N = -379.

Ascx(0)= 200. Ascy(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 20 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(5) Uc = N/Ac/fc = 0.19 N = -381.

Ascx(0)= 200. Ascy(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 21 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(5) Uc = N/Ac/fc = 0.19 N = -381.

Ascx(0)= 200. Ascy(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 22 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(5) Uc = N/Ac/fc = 0.19 N = -380.

Ascx(0)= 200. Ascy(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 23 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(5) Uc = N/Ac/fc = 0.19 N = -389.

Ascx(0)= 200. Ascy(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 24 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(5) Uc = N/Ac/fc = 0.13 N = -266.

Ascx(0)= 200. Ascy(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 25 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(5) Uc = N/Ac/fc = 0.13 N = -266.

Ascx(0)= 200. Ascy(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 26 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(5) Uc = N/Ac/fc = 0.19 N = -390.

Ascx(0)= 200. Ascy(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 27 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(5) $U_c = N/A_c/f_c = 0.19$ $N = -382.$
 $Asc_x(0) = 200.$ $Asc_y(0) = 200.$ $R_{sc} = 0.50$ $Asvc(0) = 70.0$ $R_{svc} = 0.40$
 1D18 1D18 3D 6

N-C= 28 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) $U_c = N/A_c/f_c = 0.19$ $N = -384.$
 $Asc_x(0) = 200.$ $Asc_y(0) = 200.$ $R_{sc} = 0.50$ $Asvc(0) = 70.0$ $R_{svc} = 0.40$
 1D18 1D18 3D 6

N-C= 29 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) $U_c = N/A_c/f_c = 0.19$ $N = -384.$
 (9) $M_x = 64.$ $N_{cx} = -320.$
 (1) $M_y = 0.$ $N_{cy} = -401.$
 $Asc_x(9) = 230.$ $Asc_y(1) = 200.$ $R_{sc} = 0.54$ $Asvc(0) = 70.0$ $R_{svc} = 0.40$
 1D18 1D18 3D 6

N-C= 30 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) $U_c = N/A_c/f_c = 0.19$ $N = -384.$
 (9) $M_x = 68.$ $N_{cx} = -321.$
 (1) $M_y = 0.$ $N_{cy} = -401.$
 $Asc_x(9) = 265.$ $Asc_y(1) = 200.$ $R_{sc} = 0.58$ $Asvc(0) = 70.0$ $R_{svc} = 0.40$
 2D18 1D18 3D 6

N-C= 31 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) $U_c = N/A_c/f_c = 0.19$ $N = -385.$
 (9) $M_x = 72.$ $N_{cx} = -321.$
 (1) $M_y = 0.$ $N_{cy} = -401.$
 $Asc_x(9) = 299.$ $Asc_y(1) = 200.$ $R_{sc} = 0.62$ $Asvc(0) = 70.0$ $R_{svc} = 0.40$
 2D18 1D18 3D 6

N-C= 32 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) $U_c = N/A_c/f_c = 0.19$ $N = -384.$
 (9) $M_x = 77.$ $N_{cx} = -321.$
 (1) $M_y = -1.$ $N_{cy} = -400.$
 $Asc_x(9) = 334.$ $Asc_y(1) = 200.$ $R_{sc} = 0.67$ $Asvc(0) = 70.0$ $R_{svc} = 0.40$
 2D18 1D18 3D 6

N-C= 33 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) $U_c = N/A_c/f_c = 0.20$ $N = -391.$
 (9) $M_x = 81.$ $N_{cx} = -327.$
 (1) $M_y = 3.$ $N_{cy} = -408.$
 $Asc_x(9) = 363.$ $Asc_y(1) = 200.$ $R_{sc} = 0.70$ $Asvc(0) = 70.0$ $R_{svc} = 0.40$
 2D18 1D18 3D 6

N-C= 34 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) Uc = N/Ac/fc = 0.14 N = -272.
 (9) Mx = 85. Ncx = -228.
 (1) My = -23. Ncy = -277.
 Asc_x(9)= 444. Asc_y(1)= 200. Rsc= 0.80 Asvc(0)= 70.0 Rsvc= 0.40
 2D18 1D18 3D 6

N-C= 35 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.19 N = -387.
 Asc_x(0)= 200. Asc_y(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 36 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.19 N = -378.
 Asc_x(0)= 200. Asc_y(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 37 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.19 N = -380.
 Asc_x(0)= 200. Asc_y(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 38 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.19 N = -380.
 Asc_x(0)= 200. Asc_y(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 39 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.19 N = -379.
 Asc_x(0)= 200. Asc_y(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 40 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.19 N = -387.
 Asc_x(0)= 200. Asc_y(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 41 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.13 N = -266.
 Asc_x(0)= 200. Asc_y(0)= 200. Rsc= 0.50 Asvc(0)= 70.0 Rsvc= 0.40
 1D18 1D18 3D 6

N-C= 42 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.13 N = -264.

Ascx(0)= 200. Ascy(0)= 200. Rsc=0.50 Asvc(0)= 70.0 Rsvc=0.40
 1D18 1D18 3D 6

N-C= 43 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(6) Uc = N/Ac/fc = 0.19 N = -389.

Ascx(0)= 200. Ascy(0)= 200. Rsc=0.50 Asvc(0)= 70.0 Rsvc=0.40
 1D18 1D18 3D 6

N-C= 44 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(6) Uc = N/Ac/fc = 0.19 N = -380.

Ascx(0)= 200. Ascy(0)= 200. Rsc=0.50 Asvc(0)= 70.0 Rsvc=0.40
 1D18 1D18 3D 6

N-C= 45 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(6) Uc = N/Ac/fc = 0.19 N = -382.

Ascx(0)= 200. Ascy(0)= 200. Rsc=0.50 Asvc(0)= 70.0 Rsvc=0.40
 1D18 1D18 3D 6

N-C= 46 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(6) Uc = N/Ac/fc = 0.19 N = -382.

(10) Mx = -63. Ncx = -319.

(1) My = 0. Ncy = -400.

Ascx(10)= 230. Ascy(1)= 200. Rsc=0.54 Asvc(0)= 70.0 Rsvc=0.40
 1D18 1D18 3D 6

N-C= 47 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(6) Uc = N/Ac/fc = 0.19 N = -383.

(10) Mx = -68. Ncx = -320.

(1) My = 0. Ncy = -400.

Ascx(10)= 265. Ascy(1)= 200. Rsc=0.58 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D 6

N-C= 48 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(6) Uc = N/Ac/fc = 0.19 N = -383.

(10) Mx = -72. Ncx = -320.

(1) My = 0. Ncy = -400.

Ascx(10)= 299. Ascy(1)= 200. Rsc=0.62 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D 6

N-C= 49 (1)B*H(mm)= 400* 400 Lc= 6.00(m)

(6) Uc = N/Ac/fc = 0.19 N = -383.

(10) Mx = -77. Ncx = -320.

(1) My = -1. Ncy = -399.

Ascx(10)= 335. Ascy(1)= 200. Rsc=0.67 Asvc(0)= 70.0 Rsvc=0.40

2D18 1D18 3D6

N-C= 50 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.19 N = -390.
 (10) Mx = -81. Ncx = -325.
 (1) My = 3. Ncy = -406.
 Asc_x(10)= 365. Asc_y(1)= 200. Rsc=0.71 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D6

N-C= 51 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (6) Uc = N/Ac/fc = 0.14 N = -273.
 (10) Mx = -85. Ncx = -229.
 (1) My = -23. Ncy = -276.
 Asc_x(10)= 443. Asc_y(1)= 200. Rsc=0.80 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D6

N-C= 52 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) Uc = N/Ac/fc = 0.13 N = -266.
 (1) Mx = 63. Ncx = -276.
 (1) My = 0. Ncy = -276.
 Asc_x(1)= 326. Asc_y(1)= 200. Rsc=0.66 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D6

N-C= 53 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) Uc = N/Ac/fc = 0.13 N = -266.
 (1) Mx = 65. Ncx = -277.
 (1) My = 0. Ncy = -277.
 Asc_x(1)= 345. Asc_y(1)= 200. Rsc=0.68 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D6

N-C= 54 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) Uc = N/Ac/fc = 0.13 N = -267.
 (1) Mx = 65. Ncx = -277.
 (1) My = 0. Ncy = -277.
 Asc_x(1)= 346. Asc_y(1)= 200. Rsc=0.68 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D6

N-C= 55 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) Uc = N/Ac/fc = 0.13 N = -268.
 (5) Mx = 77. Ncx = -268.
 (1) My = 0. Ncy = -277.
 Asc_x(5)= 358. Asc_y(1)= 200. Rsc=0.70 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D6

N-C= 56 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) Uc = N/Ac/fc = 0.13 N = -267.
 (5) Mx = 81. Ncx = -267.
 (1) My = -1. Ncy = -275.
 Ascx(5)= 385. Ascyl(1)= 200. Rsc=0.73 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D 6

N-C= 57 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) Uc = N/Ac/fc = 0.14 N = -280.
 (5) Mx = 84. Ncx = -280.
 (1) My = 5. Ncy = -286.
 Ascx(5)= 395. Ascyl(1)= 200. Rsc=0.74 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D 6

N-C= 58 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) Uc = N/Ac/fc = 0.08 N = -169.
 (5) Mx = 72. Ncx = -169.
 (1) My = -35. Ncy = -171.
 Ascx(5)= 400. Ascyl(1)= 200. Rsc=0.75 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D 6

N-C= 59 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) Uc = N/Ac/fc = 0.09 N = -174.
 (5) Mx = 73. Ncx = -174.
 (1) My = 35. Ncy = -171.
 Ascx(5)= 396. Ascyl(1)= 200. Rsc=0.74 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D 6

N-C= 60 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) Uc = N/Ac/fc = 0.14 N = -280.
 (5) Mx = 91. Ncx = -280.
 (1) My = -6. Ncy = -286.
 Ascx(5)= 449. Ascyl(1)= 200. Rsc=0.81 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D 6

N-C= 61 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) Uc = N/Ac/fc = 0.14 N = -271.
 (5) Mx = 95. Ncx = -271.
 (1) My = 1. Ncy = -275.
 Ascx(5)= 487. Ascyl(1)= 200. Rsc=0.86 Asvc(0)= 70.0 Rsvc=0.40
 2D18 1D18 3D 6

N-C= 62 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) Uc = N/Ac/fc = 0.14 N = -274.

(5) $M_x = 99.$ $N_{cx} = -274.$
 (1) $M_y = 0.$ $N_{cy} = -277.$
 $A_{scx}(5) = 510.$ $A_{scy}(1) = 200.$ $R_{sc} = 0.89$ $A_{svc}(0) = 70.0$ $R_{svc} = 0.40$
 3D18 1D18 3D 6

N-C= 63 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) $U_c = N/A_c/f_c = 0.14$ $N = -274.$
 (5) $M_x = 102.$ $N_{cx} = -274.$
 (1) $M_y = 0.$ $N_{cy} = -277.$
 $A_{scx}(5) = 536.$ $A_{scy}(1) = 200.$ $R_{sc} = 0.92$ $A_{svc}(0) = 70.0$ $R_{svc} = 0.40$
 3D18 1D18 3D 6

N-C= 64 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) $U_c = N/A_c/f_c = 0.14$ $N = -275.$
 (5) $M_x = 106.$ $N_{cx} = -275.$
 (1) $M_y = 0.$ $N_{cy} = -277.$
 $A_{scx}(5) = 561.$ $A_{scy}(1) = 200.$ $R_{sc} = 0.95$ $A_{svc}(0) = 70.0$ $R_{svc} = 0.40$
 3D18 1D18 3D 6

N-C= 65 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) $U_c = N/A_c/f_c = 0.14$ $N = -276.$
 (5) $M_x = 109.$ $N_{cx} = -276.$
 (1) $M_y = 0.$ $N_{cy} = -277.$
 $A_{scx}(5) = 585.$ $A_{scy}(1) = 200.$ $R_{sc} = 0.98$ $A_{svc}(0) = 70.0$ $R_{svc} = 0.40$
 3D18 1D18 3D 6

N-C= 66 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) $U_c = N/A_c/f_c = 0.14$ $N = -275.$
 (5) $M_x = 113.$ $N_{cx} = -275.$
 (1) $M_y = -1.$ $N_{cy} = -275.$
 $A_{scx}(5) = 612.$ $A_{scy}(1) = 200.$ $R_{sc} = 1.01$ $A_{svc}(0) = 70.0$ $R_{svc} = 0.40$
 3D18 1D18 3D 6

N-C= 67 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) $U_c = N/A_c/f_c = 0.14$ $N = -287.$
 (5) $M_x = 116.$ $N_{cx} = -287.$
 (1) $M_y = 5.$ $N_{cy} = -286.$
 $A_{scx}(5) = 626.$ $A_{scy}(1) = 200.$ $R_{sc} = 1.03$ $A_{svc}(0) = 70.0$ $R_{svc} = 0.40$
 3D18 1D18 3D 6

N-C= 68 (1)B*H(mm)= 400* 400 Lc= 6.00(m)
 (5) $U_c = N/A_c/f_c = 0.09$ $N = -178.$
 (5) $M_x = 105.$ $N_{cx} = -178.$
 (1) $M_y = -31.$ $N_{cy} = -172.$

Ascx(5)= 629. Ascyl(1)= 200. Rsc=1.04 Asvc(0)= 70.0 Rsvc=0.40
 3D18 ID18 3D 6

N-W = 1 Lw = 6.00 Arfw = 0.0290

| N(I1-I2) | T*L | aa | As | SAs | Rs | Ash | SAsh | Rsh |
|----------|-------|------|--------|-----|--------|-----|------|-----|
| Uc | (m*m) | (cm) | (mm*2) | (%) | (mm*2) | (%) | | |

| | | | | | | | | |
|----------|-----------|------|-------|------|------|--------|------|-----------|
| (6) M = | 10. | N = | 1827. | | | | | |
| 1(4-2) | 0.24* 7.2 | 24.0 | 1152. | 5D18 | 1.00 | 72.00 | 3D 6 | 0.20 0.00 |
| (5) M = | -433. | N = | 368. | | | | | |
| 2(1-3) | 0.24* 2.1 | 24.0 | 1152. | 5D18 | 1.00 | 72.00 | 3D 6 | 0.20 0.00 |
| (5) M = | 387. | N = | 987. | | | | | |
| (10) V = | 399. | Nh = | 1022. | | | | | |
| 3(2-5) | 0.24* 1.5 | 24.0 | 2304. | 8D20 | 2.00 | 205.75 | 5D 8 | 0.57 0.00 |

N-W = 2 Lw = 6.00 Arfw = -1.1990

| N(I1-I2) | T*L | aa | As | SAs | Rs | Ash | SAsh | Rsh |
|----------|-------|------|--------|-----|--------|-----|------|-----|
| Uc | (m*m) | (cm) | (mm*2) | (%) | (mm*2) | (%) | | |

| | | | | | | | | |
|----------|-----------|------|-------|------|------|--------|------|-----------|
| (6) V = | 1165. | Nh = | 435. | | | | | |
| 1(4-2) | 0.24* 4.2 | 24.0 | 576. | 3D18 | 0.50 | 125.95 | 5D 6 | 0.35 0.00 |
| (9) V = | 1581. | Nh = | 636. | | | | | |
| 2(1-3) | 0.24* 5.1 | 24.0 | 576. | 3D18 | 0.50 | 151.38 | 6D 6 | 0.42 0.00 |
| (6) M = | -149. | N = | 1134. | | | | | |
| (10) V = | -387. | Nh = | 1163. | | | | | |
| 3(2-5) | 0.24* 2.1 | 24.0 | 1728. | 7D18 | 1.50 | 106.49 | 4D 6 | 0.30 0.00 |
| (5) M = | -157. | N = | 664. | | | | | |
| 4(7-6) | 0.24* 1.7 | 24.0 | 1152. | 5D18 | 1.00 | 72.00 | 3D 6 | 0.20 0.00 |

N-W = 3 Lw = 6.00 Arfw = -0.0519

| N(I1-I2) | T*L | aa | As | SAs | Rs | Ash | SAsh | Rsh |
|----------|-------|------|--------|-----|--------|-----|------|-----|
| Uc | (m*m) | (cm) | (mm*2) | (%) | (mm*2) | (%) | | |

| | | | | | | | | |
|----------|-----------|------|-------|------|------|--------|------|-----------|
| (5) M = | -1301. | N = | 1599. | | | | | |
| 1(1-2) | 0.24* 6.3 | 24.0 | 1728. | 7D18 | 1.50 | 72.00 | 3D 6 | 0.20 0.00 |
| (5) M = | 311. | N = | 498. | | | | | |
| 2(1-3) | 0.24* 2.1 | 24.0 | 1152. | 5D18 | 1.00 | 72.00 | 3D 6 | 0.20 0.00 |
| (6) M = | 392. | N = | 1207. | | | | | |
| (10) V = | 424. | Nh = | 1227. | | | | | |
| 3(2-4) | 0.24* 1.5 | 24.0 | 2880. | 6D25 | 2.50 | 235.41 | 5D 8 | 0.65 0.00 |

N-W = 4 Lw = 6.00 Arfw = 1.2051

| N(I1-I2) | T*L | aa | As | SAs | Rs | Ash | SAsh | Rsh |
|----------|-------|------|--------|-----|--------|-----|------|-----|
| Uc | (m*m) | (cm) | (mm*2) | (%) | (mm*2) | (%) | | |

| | (m*m) | (cm) | (mm*2) | | (%) | (mm*2) | | (%) |
|--------|----------|------|--------|------|------|--------|------|------|
| 1(1-2) | 0.24*1.5 | 24.0 | 576. | 3D18 | 0.50 | 72.00 | 3D 6 | 0.20 |
| 2(1-3) | 0.24*0.9 | 4.0 | 648. | 3D18 | 0.60 | 93.17 | 4D 6 | 0.17 |

N-W = 5 Lw = 6.00 Arfw = -1.5268

N(I1-I2) T*L aa As SAs Rs Ash SAsH Rsh
Uc

| | (m*m) | (cm) | (mm*2) | | (%) | (mm*2) | | (%) |
|--------|----------|------|--------|------|------|--------|------|------|
| 1(1-2) | 0.24*2.1 | 24.0 | 576. | 3D18 | 0.50 | 72.00 | 3D 6 | 0.20 |
| 2(4-3) | 0.24*1.3 | 24.0 | 576. | 3D18 | 0.50 | 72.00 | 3D 6 | 0.20 |

N-W = 6 Lw = 6.00 Arfw = 0.0000

N(I1-I2) T*L aa As SAs Rs Ash SAsH Rsh
Uc

| | (m*m) | (cm) | (mm*2) | | (%) | (mm*2) | | (%) |
|--------|----------|------|--------|------|------|--------|------|------|
| 1(3-2) | 0.24*1.7 | 24.0 | 576. | 3D18 | 0.50 | 72.00 | 3D 6 | 0.20 |

N-W = 7 Lw = 6.00 Arfw = 0.0000

N(I1-I2) T*L aa As SAs Rs Ash SAsH Rsh
Uc

| | (m*m) | (cm) | (mm*2) | | (%) | (mm*2) | | (%) |
|--------|----------|------|--------|------|------|--------|------|------|
| 1(3-2) | 0.24*1.3 | 24.0 | 576. | 3D18 | 0.50 | 72.00 | 3D 6 | 0.20 |

N-W = 8 Lw = 6.00 Arfw = -0.9984

N(I1-I2) T*L aa As SAs Rs Ash SAsH Rsh
Uc

| | (m*m) | (cm) | (mm*2) | | (%) | (mm*2) | | (%) |
|--------|----------|------|--------|------|------|--------|------|------|
| 1(1-2) | 0.24*1.2 | 24.0 | 576. | 3D18 | 0.50 | 72.00 | 3D 6 | 0.20 |
| 2(1-3) | 0.24*1.5 | 24.0 | 576. | 3D18 | 0.50 | 72.00 | 3D 6 | 0.20 |

N-B= 1(1)B*H(mm)= 240* 450 Lb= 5.10(m)

| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
|-----|------|------|------|------|------|-----|------|------|------|------|------|
| +M= | 0. | 36. | 54. | 36. | 0. | -M= | -57. | 0. | 0. | 0. | -55. |
| | (1) | (1) | (1) | (1) | (1) | | (1) | (1) | (1) | (1) | (1) |
| As= | 270. | 293. | 438. | 293. | 270. | As= | 470. | 216. | 216. | 216. | 451. |
| | (0) | (1) | (1) | (1) | (0) | | (1) | (0) | (0) | (0) | (1) |
| | 2D18 | 2D18 | 2D18 | 2D18 | 2D18 | | 2D18 | 1D18 | 1D18 | 1D18 | 1D18 |

2D18

Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.44 0.20 0.20 0.20 0.42
 V(1)= 73. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(1)= 1.9 & 73. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

N-B= 2(1)B*H(mm)= 240* 450 Lb= 5.10(m)

-1- -1- -2- -3- -J- -1- -1- -2- -3- -J-
 +M= 0. 36. 54. 36. 0. -M= -56. 0. 0. 0. -56.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 270. 293. 440. 293. 270. As= 457. 216. 216. 216. 462.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18
 2D18

Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.42 0.20 0.20 0.20 0.43
 V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 70. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 3 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

-1- -1- -2- -3- -J- -1- -1- -2- -3- -J-
 +M= 0. 36. 54. 36. 0. -M= -56. 0. 0. 0. -56.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 270. 293. 439. 293. 270. As= 460. 216. 216. 216. 460.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18
 2D18

Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.43 0.20 0.20 0.20 0.43
 V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 70. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 4 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

-1- -1- -2- -3- -J- -1- -1- -2- -3- -J-
 +M= 0. 36. 54. 36. 0. -M= -56. 0. 0. 0. -56.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (1)
 As= 270. 293. 438. 293. 270. As= 459. 216. 216. 216. 461.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18
 2D18

Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.43 0.20 0.20 0.20 0.43
 V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 70. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 5 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

-1- -1- -2- -3- -J- -1- -1- -2- -3- -J-
 +M= 0. 36. 54. 36. 0. -M= -56. 0. 0. 0. -56.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 270. 293. 441. 293. 270. As= 461. 216. 216. 216. 455.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)

2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18
 2D18
 Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.43 0.20 0.20 0.20 0.42
 V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 70. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 6 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -I- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 52. 36. 0. -M= -55. 0. 0. 0. -60.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (1)
 As= 270. 293. 425. 293. 270. As= 448. 216. 216. 216. 496.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18

2D18
 Rs= 0.25 0.27 0.39 0.27 0.25 Rs= 0.41 0.20 0.20 0.20 0.46
 V(1)= 73. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 69. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 7 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -I- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 64. 43. 0. -M= -65. 0. 0. 0. -33.
 (1) (1) (1) (6) (1) (6) (1) (1) (1) (5)
 As= 270. 293. 530. 341. 270. As= 536. 216. 216. 216. 270.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (0)
 2D18 2D18 3D18 2D18 2D18 3D18 1D18 1D18 1D18

2D18
 Rs= 0.25 0.27 0.49 0.32 0.25 Rs= 0.50 0.20 0.20 0.20 0.25
 V(1)= 80. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(1)= -0.5 & 80. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 8 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -I- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 43. 64. 36. 0. -M= -32. 0. 0. 0. -65.
 (1) (5) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 270. 342. 530. 293. 270. As= 270. 216. 216. 216. 537.
 (0) (1) (1) (1) (0) (0) (0) (0) (0) (1)
 2D18 2D18 3D18 2D18 2D18 2D18 1D18 1D18 1D18

3D18
 Rs= 0.25 0.32 0.49 0.27 0.25 Rs= 0.25 0.20 0.20 0.20 0.50
 V(1)= 80. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(1)= 0.5 & 80. Ast(0)= 0. 0D 0 Astv = 0. 0D 0

Astl = 0. 0D 0

N-B= 9 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 52. 36. 0. -M= -60. 0. 0. 0. -55.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (5)
 As= 270. 293. 425. 293. 270. As= 495. 216. 216. 216. 448.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.27 0.39 0.27 0.25 Rs= 0.46 0.20 0.20 0.20 0.42
 V(1)= 73. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 69. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 10 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 54. 36. 0. -M= -55. 0. 0. 0. -56.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 270. 293. 441. 293. 270. As= 454. 216. 216. 216. 462.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.42 0.20 0.20 0.20 0.43
 V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 70. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 11 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 54. 36. 0. -M= -56. 0. 0. 0. -56.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 270. 293. 438. 293. 270. As= 460. 216. 216. 216. 460.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.43 0.20 0.20 0.20 0.43
 V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 70. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 12 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 54. 36. 0. -M= -56. 0. 0. 0. -56.

(1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 270. 293. 439. 293. 270. As= 459. 216. 216. 216. 460.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18 1D18
 2D18
 Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.43 0.20 0.20 0.20 0.43
 V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 70. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
 Astl = 0. 0D 0

 N-B= 13 (1) B * H (mm) = 240 * 450 Lb= 5.10 (m)
 -I- -I- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 54. 36. 0. -M= -56. 0. 0. 0. -56.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (1)
 As= 270. 293. 439. 293. 270. As= 459. 216. 216. 216. 461.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18 1D18
 2D18
 Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.43 0.20 0.20 0.20 0.43
 V(1)= 72. Asv(0)= 36. 2D 6 Rsv= -0.15
 T & V(6)= -0.1 & 70. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
 Astl = 0. 0D 0

 N-B= 14 (1) B * H (mm) = 240 * 450 Lb= 5.10 (m)
 -I- -I- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 54. 36. 0. -M= -56. 0. 0. 0. -56.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 270. 293. 441. 293. 270. As= 461. 216. 216. 216. 455.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18 1D18
 2D18
 Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.43 0.20 0.20 0.20 0.42
 V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 70. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
 Astl = 0. 0D 0

 N-B= 15 (1) B * H (mm) = 240 * 450 Lb= 5.10 (m)
 -I- -I- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 52. 36. 0. -M= -55. 0. 0. 0. -60.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (1)
 As= 270. 293. 426. 293. 270. As= 449. 216. 216. 216. 492.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18 1D18
 2D18

Rs= 0.25 0.27 0.39 0.27 0.25 Rs= 0.42 0.20 0.20 0.20 0.46
 V(1)= 73. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 69. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 16 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 63. 40. 0. -M= -64. 0. 0. 0. -35.
 (1) (1) (1) (6) (1) (1) (1) (1) (1) (5)
 As= 270. 293. 520. 323. 270. As= 528. 216. 216. 216. 270.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (0)
 2D18 2D18 3D18 2D18 2D18 3D18 1D18 1D18 1D18
 2D18

Rs= 0.25 0.27 0.48 0.30 0.25 Rs= 0.49 0.20 0.20 0.20 0.25
 V(1)= 79. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(1)= -0.5 & 79. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 17 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 109. 226. 92. 0. -M= -69. 0. 0. 0. -175.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (1)
 As= 375. 657. 1467. 549. 375. As= 393. 300. 300. 300. 1097.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 2D18 2D18 2D18 2D18
 5D18

Rs= 0.25 0.44 0.98 0.37 0.25 Rs= 0.26 0.20 0.20 0.20 0.73
 V(1)= 139. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.3 & 133. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 18 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 111. 228. 92. 0. -M= -70. 0. 0. 0. -174.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (1)
 As= 375. 670. 1479. 549. 375. As= 380. 300. 300. 300. 1093.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 2D18 2D18 2D18 2D18
 5D18

Rs= 0.25 0.45 0.99 0.37 0.25 Rs= 0.25 0.20 0.20 0.20 0.73
 V(1)= 140. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 129. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 19 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 113. 228. 92. 0. -M= -74. 0. 0. 0. -174.
 (1) (5) (1) (1) (1) (6) (1) (1) (1) (1)
 As= 375. 671. 1480. 549. 375. As= 380. 300. 300. 300. 1093.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 2D18 2D18 2D18 2D18

5D18
 Rs= 0.25 0.45 0.99 0.37 0.25 Rs= 0.25 0.20 0.20 0.20 0.73
 V(1)= 140. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 135. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
 Astl = 0. 0D 0

N-B= 20 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 116. 228. 92. 0. -M= -77. 0. 0. 0. -177.
 (1) (5) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 671. 1480. 549. 375. As= 380. 300. 300. 300. 1093.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 2D18 2D18 2D18 2D18 2D18

5D18
 Rs= 0.25 0.45 0.99 0.37 0.25 Rs= 0.25 0.20 0.20 0.20 0.73
 V(1)= 140. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 136. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
 Astl = 0. 0D 0

N-B= 21 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 118. 228. 92. 0. -M= -81. 0. 0. 0. -179.
 (1) (5) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 671. 1480. 549. 375. As= 379. 300. 300. 300. 1093.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 2D18 2D18 2D18 2D18 2D18

5D18
 Rs= 0.25 0.45 0.99 0.37 0.25 Rs= 0.25 0.20 0.20 0.20 0.73
 V(1)= 140. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 127. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
 Astl = 0. 0D 0

N-B= 22 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 120. 228. 92. 0. -M= -85. 0. 0. 0. -182.
 (1) (5) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 665. 1476. 549. 375. As= 385. 300. 300. 300. 1091.

(0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 2D18 2D18 2D18 2D18 2D18

5D18

Rs= 0.25 0.44 0.98 0.37 0.25 Rs= 0.26 0.20 0.20 0.20 0.73
 V(1)= 140. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 137. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 23 (1)B*H(mm)= 250* 600 Lb= 7.12(m)

-I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 98. 150. 66. 0. -M= -68. 0. 0. 0. -139.
 (1) (5) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 496. 929. 391. 375. As= 375. 300. 300. 300. 751.
 (0) (1) (1) (1) (0) (0) (0) (0) (0) (1)
 2D18 2D18 4D18 2D18 2D18 2D18 2D18 2D18 2D18 2D18

3D18

Rs= 0.25 0.33 0.62 0.26 0.25 Rs= 0.25 0.20 0.20 0.20 0.50
 V(5)= 107. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.3 & 94. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 24 (1)B*H(mm)= 250* 600 Lb= 7.12(m)

-I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 98. 150. 66. 0. -M= -69. 0. 0. 0. -139.
 (1) (5) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 496. 929. 391. 375. As= 375. 300. 300. 300. 751.
 (0) (1) (1) (1) (0) (0) (0) (0) (0) (1)
 2D18 2D18 4D18 2D18 2D18 2D18 2D18 2D18 2D18 2D18

3D18

Rs= 0.25 0.33 0.62 0.26 0.25 Rs= 0.25 0.20 0.20 0.20 0.50
 V(5)= 107. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.3 & 107. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 25 (1)B*H(mm)= 250* 600 Lb= 7.12(m)

-I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 125. 228. 92. 0. -M= -92. 0. 0. 0. -187.
 (1) (5) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 665. 1476. 549. 375. As= 409. 300. 300. 300. 1091.
 (0) (1) (1) (1) (0) (6) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 2D18 2D18 2D18 2D18 2D18

5D18

Rs= 0.25 0.44 0.98 0.37 0.25 Rs= 0.27 0.20 0.20 0.20 0.73
 V(1)= 140. Asv(0)= 37. 2D 6 Rsv= 0.15

T & V(6)= -0.1 & 124. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
Ast1 = 0. 0D 0

N-B= 26 (1)B*H(mm)= 250* 600 Lb= 7.12(m)

| | | | | | | | | | | | |
|-----|------|------|-------|------|------|-----|------|------|------|------|-------|
| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
| +M= | 0. | 128. | 228. | 92. | 0. | -M= | -95. | 0. | 0. | 0. | -190. |
| | (1) | (5) | (1) | (1) | (1) | | (6) | (1) | (1) | (1) | (5) |
| As= | 375. | 671. | 1480. | 549. | 375. | As= | 421. | 300. | 300. | 300. | 1093. |
| | (0) | (1) | (1) | (1) | (0) | | (6) | (0) | (0) | (0) | (1) |
| | 2D18 | 3D18 | 6D18 | 3D18 | 2D18 | | 2D18 | 2D18 | 2D18 | 2D18 | 2D18 |

5D18

Rs= 0.25 0.45 0.99 0.37 0.25 Rs= 0.28 0.20 0.20 0.20 0.73
V(5)= 140. Asv(0)= 37. 2D 6 Rsv= 0.15
T & V(5)= 0.1 & 140. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
Ast1 = 0. 0D 0

N-B= 27 (1)B*H(mm)= 250* 600 Lb= 7.12(m)

| | | | | | | | | | | | |
|-----|------|------|-------|------|------|-----|------|------|------|------|-------|
| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
| +M= | 0. | 130. | 228. | 92. | 0. | -M= | -98. | 0. | 0. | 0. | -193. |
| | (1) | (5) | (1) | (1) | (1) | | (6) | (1) | (1) | (1) | (5) |
| As= | 375. | 671. | 1480. | 549. | 375. | As= | 437. | 300. | 300. | 300. | 1093. |
| | (0) | (1) | (1) | (1) | (0) | | (6) | (0) | (0) | (0) | (1) |
| | 2D18 | 3D18 | 6D18 | 3D18 | 2D18 | | 2D18 | 2D18 | 2D18 | 2D18 | 2D18 |

5D18

Rs= 0.25 0.45 0.99 0.37 0.25 Rs= 0.29 0.20 0.20 0.20 0.73
V(5)= 141. Asv(0)= 37. 2D 6 Rsv= 0.15
T & V(6)= -0.1 & 122. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
Ast1 = 0. 0D 0

N-B= 28 (1)B*H(mm)= 250* 600 Lb= 7.12(m)

| | | | | | | | | | | | |
|-----|------|------|-------|------|------|-----|-------|------|------|------|-------|
| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
| +M= | 0. | 132. | 228. | 92. | 0. | -M= | -102. | 0. | 0. | 0. | -195. |
| | (1) | (5) | (1) | (1) | (1) | | (6) | (1) | (1) | (1) | (5) |
| As= | 375. | 671. | 1480. | 549. | 375. | As= | 453. | 300. | 300. | 300. | 1093. |
| | (0) | (1) | (1) | (1) | (0) | | (6) | (0) | (0) | (0) | (1) |
| | 2D18 | 3D18 | 6D18 | 3D18 | 2D18 | | 2D18 | 2D18 | 2D18 | 2D18 | 2D18 |

5D18

Rs= 0.25 0.45 0.99 0.37 0.25 Rs= 0.30 0.20 0.20 0.20 0.73
V(5)= 142. Asv(0)= 37. 2D 6 Rsv= 0.15
T & V(5)= 0.1 & 142. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
Ast1 = 0. 0D 0

N-B= 29 (1)B*H(mm)= 250* 600 Lb= 7.12(m)

| | | | | | | | | | | | |
|--|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|
| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
|--|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|

+M= 0. 135. 228. 92. 0. -M= -105. 0. 0. 0. -198.
 (1) (5) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 671. 1480. 549. 375. As= 470. 300. 300. 300. 1093.
 (0) (1) (1) (1) (0) (6) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 2D18 2D18 2D18 2D18

5D18

Rs= 0.25 0.45 0.99 0.37 0.25 Rs= 0.31 0.20 0.20 0.20 0.73
 V(5)= 143. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 121. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

N-B= 30 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 137. 228. 92. 0. -M= -109. 0. 0. 0. -201.
 (1) (5) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 671. 1480. 549. 375. As= 486. 300. 300. 300. 1093.
 (0) (1) (1) (1) (0) (6) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 2D18 2D18 2D18 2D18

5D18

Rs= 0.25 0.45 0.99 0.37 0.25 Rs= 0.32 0.20 0.20 0.20 0.73
 V(5)= 144. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 144. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

N-B= 31 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 1. 140. 228. 92. 0. -M= -112. 0. 0. 0. -203.
 (9) (5) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 671. 1480. 549. 375. As= 502. 300. 300. 300. 1093.
 (0) (1) (1) (1) (0) (6) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 2D18 2D18 2D18 2D18

5D18

Rs= 0.25 0.45 0.99 0.37 0.25 Rs= 0.33 0.20 0.20 0.20 0.73
 V(5)= 144. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 119. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

N-B= 32 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 4. 142. 229. 92. 0. -M= -117. 0. 0. 0. -207.
 (9) (5) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 670. 1489. 553. 375. As= 524. 300. 300. 300. 1099.
 (0) (1) (1) (1) (0) (6) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 3D18 2D18 2D18 2D18

5D18

Rs= 0.25 0.45 0.99 0.37 0.25 Rs= 0.35 0.20 0.20 0.20 0.73
 V(5)= 146. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 146. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 33 (1)B*H(mm)= 250* 600 Lb= 7.12(m)

| | | | | | | | | | | | |
|-----|------|------|------|------|------|-----|-------|------|------|------|-------|
| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
| +M= | 24. | 120. | 154. | 67. | 0. | -M= | -101. | 0. | 0. | 0. | -164. |
| | (9) | (5) | (5) | (1) | (1) | | (6) | (1) | (1) | (1) | (5) |
| As= | 375. | 538. | 941. | 394. | 375. | As= | 448. | 300. | 300. | 300. | 757. |
| | (0) | (5) | (1) | (1) | (0) | | (6) | (0) | (0) | (0) | (1) |
| | 2D18 | 3D18 | 4D18 | 2D18 | 2D18 | | 2D18 | 2D18 | 2D18 | 2D18 | 2D18 |

3D18

Rs= 0.25 0.36 0.63 0.26 0.25 Rs= 0.30 0.20 0.20 0.20 0.50
 V(5)= 115. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.4 & 89. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 34 (1)B*H(mm)= 250* 750 Lb= 0.90(m)

| | | | | | | | | | | | |
|-----|------|------|------|------|------|-----|-------|-------|-------|-------|-------|
| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
| +M= | 0. | 1. | 1. | 1. | 0. | -M= | -274. | -275. | -223. | -171. | -120. |
| | (1) | (1) | (1) | (1) | (1) | | (1) | (6) | (6) | (6) | (6) |
| As= | 469. | 375. | 375. | 375. | 469. | As= | 1356. | 1351. | 1059. | 784. | 526. |
| | (0) | (0) | (0) | (0) | (0) | | (1) | (1) | (1) | (1) | (1) |
| | 2D18 | 2D18 | 2D18 | 2D18 | 2D18 | | 6D18 | 6D18 | 5D18 | 4D18 | |

3D18

Rs= 0.25 0.20 0.20 0.20 0.25 Rs= 0.72 0.72 0.56 0.42 0.28
 V(1)= 209. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(8)= -9.5 & 165. Ast(0)= 450. 2D18 Astv = 56. 2D 6
 Astl = 7. 1D 6

N-B= 35 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

| | | | | | | | | | | | |
|-----|------|------|------|------|------|-----|------|------|------|------|------|
| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
| +M= | 0. | 31. | 49. | 31. | 0. | -M= | -34. | 0. | 0. | 0. | -67. |
| | (1) | (1) | (1) | (1) | (1) | | (6) | (1) | (1) | (1) | (1) |
| As= | 270. | 246. | 396. | 246. | 270. | As= | 274. | 216. | 216. | 216. | 553. |
| | (0) | (1) | (1) | (1) | (0) | | (1) | (0) | (0) | (0) | (1) |
| | 2D18 | 1D18 | 2D18 | 1D18 | 2D18 | | 2D18 | 1D18 | 1D18 | 1D18 | 1D18 |

3D18

Rs= 0.25 0.23 0.37 0.23 0.25 Rs= 0.25 0.20 0.20 0.20 0.51
 V(1)= 63. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(1)= -1.4 & 63. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 36 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 47. 31. 0. -M= -52. 0. 0. 0. -47.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 380. 246. 270. As= 423. 216. 216. 216. 378.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18
 2D18
 Rs= 0.25 0.23 0.35 0.23 0.25 Rs= 0.39 0.20 0.20 0.20 0.35
 V(1)= 57. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 53. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 37 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 48. 31. 0. -M= -47. 0. 0. 0. -48.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 395. 246. 270. As= 384. 216. 216. 216. 391.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18
 2D18
 Rs= 0.25 0.23 0.37 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36
 V(1)= 56. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= 0.0 & 52. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 38 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 48. 31. 0. -M= -48. 0. 0. 0. -48.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 392. 246. 270. As= 389. 216. 216. 216. 390.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18
 2D18
 Rs= 0.25 0.23 0.36 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36
 V(1)= 55. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= 0.0 & 52. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 39 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 48. 31. 0. -M= -48. 0. 0. 0. -47.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

As= 270. 246. 395. 246. 270. As= 390. 216. 216. 216. 385.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.37 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36
 V(1)= 56. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.0 & 52. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

N-B= 40 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

-I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 47. 31. 0. -M= -47. 0. 0. 0. -51.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 381. 246. 270. As= 379. 216. 216. 216. 419.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.35 0.23 0.25 Rs= 0.35 0.20 0.20 0.20 0.39
 V(1)= 57. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.0 & 53. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

N-B= 41 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

-I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 57. 35. 0. -M= -55. 0. 0. 0. -26.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (3)
 As= 270. 246. 471. 285. 270. As= 450. 216. 216. 216. 270.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (0)
 2D18 1D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.44 0.26 0.25 Rs= 0.42 0.20 0.20 0.20 0.25
 V(1)= 62. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 58. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

N-B= 42 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

-I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 57. 31. 0. -M= -26. 0. 0. 0. -55.
 (1) (1) (1) (1) (1) (4) (1) (1) (1) (1)
 As= 270. 286. 471. 246. 270. As= 270. 216. 216. 216. 451.
 (0) (1) (1) (1) (0) (0) (0) (0) (0) (1)
 2D18 2D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.26 0.44 0.23 0.25 Rs= 0.25 0.20 0.20 0.20 0.42

V(1)= 62. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 58. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 43 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 31. 47. 31. 0. -M= -51. 0. 0. 0. -47.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 381. 246. 270. As= 418. 216. 216. 216. 380.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18
 Rs= 0.25 0.23 0.35 0.23 0.25 Rs= 0.39 0.20 0.20 0.20 0.35
 V(1)= 56. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= 0.0 & 53. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 44 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 31. 48. 31. 0. -M= -47. 0. 0. 0. -48.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 395. 246. 270. As= 384. 216. 216. 216. 391.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18
 Rs= 0.25 0.23 0.37 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36
 V(1)= 56. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= 0.0 & 52. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 45 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 31. 48. 31. 0. -M= -48. 0. 0. 0. -48.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 393. 246. 270. As= 390. 216. 216. 216. 389.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18
 Rs= 0.25 0.23 0.36 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36
 V(1)= 55. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= 0.0 & 52. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 46 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

-I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 48. 31. 0. -M= -48. 0. 0. 0. -48.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 393. 246. 270. As= 389. 216. 216. 216. 390.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.36 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36
 V(1)= 55. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= 0.0 & 52. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 47(1)B*H(mm)= 240* 450 Lb= 5.10(m)

-I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 48. 31. 0. -M= -48. 0. 0. 0. -48.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 393. 246. 270. As= 389. 216. 216. 216. 390.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.36 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36
 V(1)= 55. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.0 & 52. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 48(1)B*H(mm)= 240* 450 Lb= 5.10(m)

-I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 48. 31. 0. -M= -48. 0. 0. 0. -48.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 394. 246. 270. As= 390. 216. 216. 216. 386.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.36 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36
 V(1)= 56. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= 0.0 & 52. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 49(1)B*H(mm)= 240* 450 Lb= 5.10(m)

-I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 47. 31. 0. -M= -47. 0. 0. 0. -50.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 385. 246. 270. As= 382. 216. 216. 216. 410.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)

2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18
 2D18
 Rs= 0.25 0.23 0.36 0.23 0.25 Rs= 0.35 0.20 0.20 0.20 0.38
 V(1)= 56. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.0 & 53. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

 N-B= 50 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 55. 31. 0. -M= -53. 0. 0. 0. -32.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (3)
 As= 270. 246. 450. 246. 270. As= 431. 216. 216. 216. 270.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (0)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18
 Rs= 0.25 0.23 0.42 0.23 0.25 Rs= 0.40 0.20 0.20 0.20 0.25
 V(1)= 60. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 57. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

 N-B= 51 (1)B*H(mm)= 250* 750 Lb= 7.20(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 158. 271. 159. 0. -M= -124. 0. 0. 0. -124.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 469. 750. 1339. 754. 469. As= 547. 375. 375. 375. 542.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 3D18 2D18 2D18 2D18 2D18

3D18
 Rs= 0.25 0.40 0.71 0.40 0.25 Rs= 0.29 0.20 0.20 0.20 0.29
 V(1)= 144. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.0 & 139. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

 N-B= 52 (1)B*H(mm)= 250* 600 Lb= 7.20(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 93. 186. 93. 0. -M= -161. 0. 0. 0. -161.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 375. 556. 1176. 556. 375. As= 1003. 300. 300. 300. 999.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 5D18 3D18 2D18 4D18 2D18 2D18 2D18 2D18

4D18
 Rs= 0.25 0.37 0.78 0.37 0.25 Rs= 0.67 0.20 0.20 0.20 0.67
 V(1)= 122. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.0 & 115. Ast(0)= 0. 0D 0 Astv = 0. 0D 0

Ast1 = 0. 0D 0

N-B= 53 (1)B*H(mm)= 250* 600 Lb= 7.20(m)

| | | | | | | | | | | | |
|-----|------|------|-------|------|------|-----|-------|------|------|------|-------|
| | -I- | -1- | -2- | -3- | -J- | | -I- | -1- | -2- | -3- | -J- |
| +M= | 0. | 93. | 185. | 93. | 0. | -M= | -162. | 0. | 0. | 0. | -162. |
| | (1) | (1) | (1) | (1) | (1) | | (1) | (1) | (1) | (1) | (1) |
| As= | 375. | 556. | 1167. | 556. | 375. | As= | 1011. | 300. | 300. | 300. | 1006. |
| | (0) | (1) | (1) | (1) | (0) | | (1) | (0) | (0) | (0) | (1) |
| | 2D18 | 3D18 | 5D18 | 3D18 | 2D18 | | 4D18 | 2D18 | 2D18 | 2D18 | 2D18 |

4D18

| | | | | | | | | | | | |
|------------|--------|----------|----------|------|------|-------|--------|------|------|------|------|
| Rs= | 0.25 | 0.37 | 0.78 | 0.37 | 0.25 | Rs= | 0.67 | 0.20 | 0.20 | 0.20 | 0.67 |
| V(1)= | 122. | Asv(0)= | 37. | 2D 6 | Rsv= | 0.15 | | | | | |
| T & V(6)= | -0.1 & | 116. | Ast(0)= | 0. | 0D 0 | Astv= | 0. | 0D 0 | | | |
| | | | | | | | Ast1 = | 0. | 0D 0 | | |

N-B= 54 (1)B*H(mm)= 250* 600 Lb= 7.20(m)

| | | | | | | | | | | | |
|-----|------|------|-------|------|------|-----|-------|------|------|------|-------|
| | -I- | -1- | -2- | -3- | -J- | | -I- | -1- | -2- | -3- | -J- |
| +M= | 0. | 93. | 185. | 93. | 0. | -M= | -163. | 0. | 0. | 0. | -162. |
| | (1) | (1) | (1) | (1) | (1) | | (1) | (1) | (1) | (1) | (1) |
| As= | 375. | 556. | 1166. | 556. | 375. | As= | 1011. | 300. | 300. | 300. | 1006. |
| | (0) | (1) | (1) | (1) | (0) | | (1) | (0) | (0) | (0) | (1) |
| | 2D18 | 3D18 | 5D18 | 3D18 | 2D18 | | 4D18 | 2D18 | 2D18 | 2D18 | 2D18 |

4D18

| | | | | | | | | | | | |
|------------|-------|----------|----------|------|------|-------|--------|------|------|------|------|
| Rs= | 0.25 | 0.37 | 0.78 | 0.37 | 0.25 | Rs= | 0.67 | 0.20 | 0.20 | 0.20 | 0.67 |
| V(1)= | 122. | Asv(0)= | 37. | 2D 6 | Rsv= | 0.15 | | | | | |
| T & V(5)= | 0.1 & | 116. | Ast(0)= | 0. | 0D 0 | Astv= | 0. | 0D 0 | | | |
| | | | | | | | Ast1 = | 0. | 0D 0 | | |

N-B= 55 (1)B*H(mm)= 250* 600 Lb= 7.20(m)

| | | | | | | | | | | | |
|-----|------|------|-------|------|------|-----|-------|------|------|------|-------|
| | -I- | -1- | -2- | -3- | -J- | | -I- | -1- | -2- | -3- | -J- |
| +M= | 0. | 93. | 185. | 93. | 0. | -M= | -163. | 0. | 0. | 0. | -162. |
| | (1) | (1) | (1) | (1) | (1) | | (1) | (1) | (1) | (1) | (1) |
| As= | 375. | 556. | 1166. | 556. | 375. | As= | 1011. | 300. | 300. | 300. | 1006. |
| | (0) | (1) | (1) | (1) | (0) | | (1) | (0) | (0) | (0) | (1) |
| | 2D18 | 3D18 | 5D18 | 3D18 | 2D18 | | 4D18 | 2D18 | 2D18 | 2D18 | 2D18 |

4D18

| | | | | | | | | | | | |
|------------|--------|----------|----------|------|------|-------|--------|------|------|------|------|
| Rs= | 0.25 | 0.37 | 0.78 | 0.37 | 0.25 | Rs= | 0.67 | 0.20 | 0.20 | 0.20 | 0.67 |
| V(1)= | 122. | Asv(0)= | 37. | 2D 6 | Rsv= | 0.15 | | | | | |
| T & V(6)= | -0.1 & | 117. | Ast(0)= | 0. | 0D 0 | Astv= | 0. | 0D 0 | | | |
| | | | | | | | Ast1 = | 0. | 0D 0 | | |

N-B= 56 (1)B*H(mm)= 250* 600 Lb= 7.20(m)

| | | | | | | | | | | | |
|-----|-----|-----|------|-----|-----|-----|-------|-----|-----|-----|-------|
| | -I- | -1- | -2- | -3- | -J- | | -I- | -1- | -2- | -3- | -J- |
| +M= | 0. | 93. | 185. | 93. | 0. | -M= | -163. | 0. | 0. | 0. | -163. |

(1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 556. 1166. 556. 375. As= 1011. 300. 300. 300. 1006.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 5D18 3D18 2D18 4D18 2D18 2D18 2D18
 4D18
 Rs= 0.25 0.37 0.78 0.37 0.25 Rs= 0.67 0.20 0.20 0.20 0.67
 V(1)= 122. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 118. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 57(1)B*H(mm)= 250* 600 Lb= 7.20(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 93. 185. 93. 0. -M= -165. 0. 0. 0. -164.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 556. 1168. 556. 375. As= 1010. 300. 300. 300. 1005.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 5D18 3D18 2D18 4D18 2D18 2D18 2D18
 4D18
 Rs= 0.25 0.37 0.78 0.37 0.25 Rs= 0.67 0.20 0.20 0.20 0.67
 V(1)= 122. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 118. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 58(1)B*H(mm)= 250* 600 Lb= 7.20(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 67. 118. 67. 0. -M= -124. 0. 0. 0. -124.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 397. 717. 397. 375. As= 696. 300. 300. 300. 694.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 3D18 2D18 2D18 3D18 2D18 2D18 2D18
 3D18
 Rs= 0.25 0.26 0.48 0.26 0.25 Rs= 0.46 0.20 0.20 0.20 0.46
 V(6)= 92. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 92. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 59(1)B*H(mm)= 250* 600 Lb= 7.20(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 67. 118. 67. 0. -M= -124. 0. 0. 0. -124.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 397. 717. 397. 375. As= 696. 300. 300. 300. 694.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 3D18 2D18 2D18 3D18 2D18 2D18 2D18
 3D18

Rs= 0.25 0.26 0.48 0.26 0.25 Rs= 0.46 0.20 0.20 0.20 0.46
 V(6)= 92. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 92. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
 Astl = 0. 0D 0

 N-B= 60 (1)B*H(mm)= 250* 600 Lb= 7.20(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 93. 185. 93. 0. -M= -169. 0. 0. 0. -168.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 556. 1168. 556. 375. As= 1010. 300. 300. 300. 1005.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 5D18 3D18 2D18 4D18 2D18 2D18 2D18
 4D18

Rs= 0.25 0.37 0.78 0.37 0.25 Rs= 0.67 0.20 0.20 0.20 0.67
 V(1)= 122. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 119. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
 Astl = 0. 0D 0

 N-B= 61 (1)B*H(mm)= 250* 600 Lb= 7.20(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 93. 185. 93. 0. -M= -171. 0. 0. 0. -170.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 556. 1166. 556. 375. As= 1011. 300. 300. 300. 1006.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 5D18 3D18 2D18 4D18 2D18 2D18 2D18
 4D18

Rs= 0.25 0.37 0.78 0.37 0.25 Rs= 0.67 0.20 0.20 0.20 0.67
 V(1)= 122. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 120. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
 Astl = 0. 0D 0

 N-B= 62 (1)B*H(mm)= 250* 600 Lb= 7.20(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 93. 185. 93. 0. -M= -173. 0. 0. 0. -172.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 556. 1166. 556. 375. As= 1011. 300. 300. 300. 1006.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 5D18 3D18 2D18 4D18 2D18 2D18 2D18
 4D18

Rs= 0.25 0.37 0.78 0.37 0.25 Rs= 0.67 0.20 0.20 0.20 0.67
 V(1)= 122. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 120. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
 Astl = 0. 0D 0

N-B= 63 (1)B*H(mm)= 250* 600 Lb= 7.20(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 93. 185. 93. 0. -M= -175. 0. 0. 0. -174.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 556. 1166. 556. 375. As= 1011. 300. 300. 300. 1006.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 5D18 3D18 2D18 4D18 2D18 2D18 2D18
 4D18
 Rs= 0.25 0.37 0.78 0.37 0.25 Rs= 0.67 0.20 0.20 0.20 0.67
 V(1)= 122. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 121. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 64 (1)B*H(mm)= 250* 600 Lb= 7.20(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 93. 185. 93. 0. -M= -176. 0. 0. 0. -176.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 556. 1166. 556. 375. As= 1011. 300. 300. 300. 1006.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 5D18 3D18 2D18 4D18 2D18 2D18 2D18
 4D18
 Rs= 0.25 0.37 0.78 0.37 0.25 Rs= 0.67 0.20 0.20 0.20 0.67
 V(1)= 122. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 121. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 65 (1)B*H(mm)= 250* 600 Lb= 7.20(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 93. 185. 93. 0. -M= -178. 0. 0. 0. -178.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 556. 1166. 556. 375. As= 1011. 300. 300. 300. 1006.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 5D18 3D18 2D18 4D18 2D18 2D18 2D18
 4D18
 Rs= 0.25 0.37 0.78 0.37 0.25 Rs= 0.67 0.20 0.20 0.20 0.67
 V(6)= 122. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 122. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 66 (1)B*H(mm)= 250* 600 Lb= 7.20(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 93. 185. 93. 0. -M= -180. 0. 0. 0. -179.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 556. 1166. 556. 375. As= 1011. 300. 300. 300. 1006.

(0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 5D18 3D18 2D18 4D18 2D18 2D18 2D18
 4D18
 Rs= 0.25 0.37 0.78 0.37 0.25 Rs= 0.67 0.20 0.20 0.20 0.67
 V(6)= 122. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 122. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

 N-B= 67(1)B*H(mm)= 250* 600 Lb= 7.20(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 94. 187. 93. 0. -M= -183. 0. 0. 0. -182.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 559. 1178. 559. 375. As= 1017. 300. 300. 300. 1012.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 5D18 3D18 2D18 4D18 2D18 2D18 2D18

4D18
 Rs= 0.25 0.37 0.79 0.37 0.25 Rs= 0.68 0.20 0.20 0.20 0.67
 V(6)= 123. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 123. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

 N-B= 68(1)B*H(mm)= 250* 600 Lb= 7.20(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 68. 120. 68. 0. -M= -142. 0. 0. 0. -142.
 (1) (1) (1) (1) (1) (6) (1) (1) (1) (5)
 As= 375. 400. 727. 400. 375. As= 703. 300. 300. 300. 700.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 3D18 2D18 2D18 3D18 2D18 2D18 2D18

3D18
 Rs= 0.25 0.27 0.48 0.27 0.25 Rs= 0.47 0.20 0.20 0.20 0.47
 V(6)= 97. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 97. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

 N-B= 69(1)B*H(mm)= 250* 750 Lb= 0.90(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 1. 1. 1. 0. -M= -120. -170. -222. -275. -274.
 (1) (1) (1) (1) (1) (5) (5) (5) (5) (5)
 As= 469. 375. 375. 375. 469. As= 522. 780. 1054. 1345. 1352.
 (0) (0) (0) (0) (0) (1) (1) (1) (1) (1)
 2D18 2D18 2D18 2D18 2D18 3D18 4D18 5D18 6D18

6D18
 Rs= 0.25 0.20 0.20 0.20 0.25 Rs= 0.28 0.42 0.56 0.72 0.72
 V(1)= 209. Asv(0)= 37. 2D 6 Rsv= 0.15

T & V(9)= 10.1 & 169. Ast(0)= 473. 2D18 Astv = 57. 3D 6
Astl = 8. 1D 6

N-B= 70(1)B*H(mm)= 240* 450 Lb= 5.10(m)
-I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
+M= 0. 31. 49. 31. 0. -M= -36. 0. 0. 0. -67.
(1) (1) (1) (1) (1) (5) (1) (1) (1) (1)
As= 270. 246. 396. 246. 270. As= 271. 216. 216. 216. 555.
(0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

3D18

Rs= 0.25 0.23 0.37 0.23 0.25 Rs= 0.25 0.20 0.20 0.20 0.51
V(1)= 63. Asv(0)= 36. 2D 6 Rsv= 0.15
T & V(1)= 1.4 & 63. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
Astl = 0. 0D 0

N-B= 71(1)B*H(mm)= 240* 450 Lb= 5.10(m)
-I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
+M= 0. 31. 47. 31. 0. -M= -52. 0. 0. 0. -47.
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
As= 270. 246. 379. 246. 270. As= 423. 216. 216. 216. 378.
(0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.35 0.23 0.25 Rs= 0.39 0.20 0.20 0.20 0.35
V(1)= 57. Asv(0)= 36. 2D 6 Rsv= 0.15
T & V(5)= 0.1 & 54. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
Astl = 0. 0D 0

N-B= 72(1)B*H(mm)= 240* 450 Lb= 5.10(m)
-I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
+M= 0. 31. 49. 31. 0. -M= -47. 0. 0. 0. -48.
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
As= 270. 246. 395. 246. 270. As= 384. 216. 216. 216. 391.
(0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.37 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36
V(1)= 56. Asv(0)= 36. 2D 6 Rsv= 0.15
T & V(5)= 0.0 & 53. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
Astl = 0. 0D 0

N-B= 73(1)B*H(mm)= 240* 450 Lb= 5.10(m)
-I- -I- -2- -3- -J- -I- -I- -2- -3- -J-

+M= 0. 31. 48. 31. 0. -M= -48. 0. 0. 0. -48.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 392. 246. 270. As= 389. 216. 216. 216. 390.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.36 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36
 V(1)= 55. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.0 & 53. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 74 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

-1- -1- -2- -3- -J- -1- -1- -2- -3- -J-
 +M= 0. 31. 48. 31. 0. -M= -48. 0. 0. 0. -47.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 395. 246. 270. As= 390. 216. 216. 216. 385.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.37 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36
 V(1)= 56. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= 0.0 & 53. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 75 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

-1- -1- -2- -3- -J- -1- -1- -2- -3- -J-
 +M= 0. 31. 47. 31. 0. -M= -47. 0. 0. 0. -51.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 381. 246. 270. As= 379. 216. 216. 216. 419.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.35 0.23 0.25 Rs= 0.35 0.20 0.20 0.20 0.39
 V(1)= 57. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= 0.0 & 54. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 76 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

-1- -1- -2- -3- -J- -1- -1- -2- -3- -J-
 +M= 0. 31. 57. 36. 0. -M= -55. 0. 0. 0. -28.
 (1) (1) (1) (5) (1) (1) (1) (1) (1) (6)
 As= 270. 246. 471. 285. 270. As= 450. 216. 216. 216. 270.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (0)
 2D18 1D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.44 0.26 0.25 Rs= 0.42 0.20 0.20 0.20 0.25
 V(1)= 62. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 57. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

N-B= 77 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -I- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 57. 31. 0. -M= -28. 0. 0. 0. -55.
 (1) (6) (1) (1) (1) (5) (1) (1) (1) (1)
 As= 270. 286. 471. 246. 270. As= 270. 216. 216. 216. 451.
 (0) (1) (1) (1) (0) (0) (0) (0) (0) (1)
 2D18 2D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.26 0.44 0.23 0.25 Rs= 0.25 0.20 0.20 0.20 0.42
 V(1)= 62. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 57. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

N-B= 78 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 47. 31. 0. -M= -51. 0. 0. 0. -47.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 381. 246. 270. As= 418. 216. 216. 216. 380.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.35 0.23 0.25 Rs= 0.39 0.20 0.20 0.20 0.35
 V(1)= 56. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.0 & 54. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

N-B= 79 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 48. 31. 0. -M= -47. 0. 0. 0. -48.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 395. 246. 270. As= 384. 216. 216. 216. 391.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.37 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36
 V(1)= 56. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= 0.0 & 53. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

N-B= 80 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

-I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 48. 31. 0. -M= -48. 0. 0. 0. -48.

(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 393. 246. 270. As= 390. 216. 216. 216. 389.

(0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.36 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36

V(1)= 55. Asv(0)= 36. 2D 6 Rsv= 0.15

T & V(5)= 0.0 & 53. Ast(0)= 0. 0D 0 Astv = 0. 0D 0

Ast1 = 0. 0D 0

N-B= 81 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

-I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 48. 31. 0. -M= -48. 0. 0. 0. -48.

(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 393. 246. 270. As= 389. 216. 216. 216. 390.

(0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.36 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36

V(1)= 55. Asv(0)= 36. 2D 6 Rsv= 0.15

T & V(6)= 0.0 & 53. Ast(0)= 0. 0D 0 Astv = 0. 0D 0

Ast1 = 0. 0D 0

N-B= 82 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

-I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 48. 31. 0. -M= -48. 0. 0. 0. -48.

(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 393. 246. 270. As= 389. 216. 216. 216. 390.

(0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.36 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36

V(1)= 55. Asv(0)= 36. 2D 6 Rsv= 0.15

T & V(6)= 0.0 & 53. Ast(0)= 0. 0D 0 Astv = 0. 0D 0

Ast1 = 0. 0D 0

N-B= 83 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

-I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 31. 48. 31. 0. -M= -48. 0. 0. 0. -48.

(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

As= 270. 246. 394. 246. 270. As= 390. 216. 216. 216. 386.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.36 0.23 0.25 Rs= 0.36 0.20 0.20 0.20 0.36
 V(1)= 56. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.0 & 53. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 84 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 31. 47. 31. 0. -M= -47. 0. 0. 0. -50.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
 As= 270. 246. 385. 246. 270. As= 382. 216. 216. 216. 410.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.36 0.23 0.25 Rs= 0.35 0.20 0.20 0.20 0.38
 V(1)= 56. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= 0.0 & 54. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 85 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 31. 55. 31. 0. -M= -53. 0. 0. 0. -34.
 (1) (1) (1) (5) (1) (1) (1) (1) (1) (6)
 As= 270. 246. 450. 246. 270. As= 431. 216. 216. 216. 270.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (0)
 2D18 1D18 2D18 1D18 2D18 2D18 1D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.23 0.42 0.23 0.25 Rs= 0.40 0.20 0.20 0.20 0.25
 V(1)= 60. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 55. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 86 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 91. 227. 111. 0. -M= -174. 0. 0. 0. -69.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (5)
 As= 375. 543. 1469. 672. 375. As= 1091. 300. 300. 300. 396.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 5D18 2D18 2D18 2D18 2D18

2D18

Rs= 0.25 0.36 0.98 0.45 0.25 Rs= 0.73 0.20 0.20 0.20 0.26

V(1)= 138. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.3 & 132. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 87 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 91. 228. 113. 0. -M= -174. 0. 0. 0. -71.
 (1) (1) (1) (1) (1) (1) (1) (1) (1) (5)
 As= 375. 543. 1481. 685. 375. As= 1087. 300. 300. 300. 383.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 5D18 2D18 2D18 2D18

2D18

Rs= 0.25 0.36 0.99 0.46 0.25 Rs= 0.72 0.20 0.20 0.20 0.26
 V(1)= 138. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 128. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 88 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 91. 228. 116. 0. -M= -174. 0. 0. 0. -74.
 (1) (1) (1) (6) (1) (1) (1) (1) (1) (5)
 As= 375. 543. 1481. 686. 375. As= 1087. 300. 300. 300. 382.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 5D18 2D18 2D18 2D18

2D18

Rs= 0.25 0.36 0.99 0.46 0.25 Rs= 0.72 0.20 0.20 0.20 0.25
 V(1)= 138. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 134. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 89 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 91. 228. 118. 0. -M= -176. 0. 0. 0. -78.
 (1) (1) (1) (6) (1) (6) (1) (1) (1) (5)
 As= 375. 543. 1481. 686. 375. As= 1087. 300. 300. 300. 382.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 5D18 2D18 2D18 2D18

2D18

Rs= 0.25 0.36 0.99 0.46 0.25 Rs= 0.72 0.20 0.20 0.20 0.25
 V(1)= 138. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 134. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 90 (1)B*H(mm)= 250* 600 Lb= 7.12(m)

-1- -1- -2- -3- -J- -1- -1- -2- -3- -J-
 +M= 0. 91. 228. 120. 0. -M= -179. 0. 0. 0. -81.
 (1) (1) (1) (6) (1) (6) (1) (1) (1) (5)
 As= 375. 543. 1481. 686. 375. As= 1087. 300. 300. 300. 382.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 5D18 2D18 2D18 2D18

2D18

Rs= 0.25 0.36 0.99 0.46 0.25 Rs= 0.72 0.20 0.20 0.20 0.25
 V(1)= 138. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 125. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

N-B= 91(1)B*H(mm)= 250* 600 Lb= 7.12(m)

-1- -1- -2- -3- -J- -1- -1- -2- -3- -J-
 +M= 0. 91. 228. 122. 0. -M= -181. 0. 0. 0. -86.
 (1) (1) (1) (6) (1) (6) (1) (1) (1) (5)
 As= 375. 543. 1477. 680. 375. As= 1086. 300. 300. 300. 388.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 3D18 6D18 3D18 2D18 5D18 2D18 2D18 2D18

2D18

Rs= 0.25 0.36 0.98 0.45 0.25 Rs= 0.72 0.20 0.20 0.20 0.26
 V(1)= 138. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 136. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

N-B= 92(1)B*H(mm)= 250* 600 Lb= 7.12(m)

-1- -1- -2- -3- -J- -1- -1- -2- -3- -J-
 +M= 0. 66. 151. 99. 0. -M= -138. 0. 0. 0. -69.
 (1) (1) (1) (6) (1) (6) (1) (1) (1) (5)
 As= 375. 388. 930. 503. 375. As= 748. 300. 300. 300. 375.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (0)
 2D18 2D18 4D18 2D18 2D18 3D18 2D18 2D18 2D18

2D18

Rs= 0.25 0.26 0.62 0.34 0.25 Rs= 0.50 0.20 0.20 0.20 0.25
 V(6)= 106. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.3 & 93. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

N-B= 93(1)B*H(mm)= 250* 600 Lb= 7.12(m)

-1- -1- -2- -3- -J- -1- -1- -2- -3- -J-
 +M= 0. 66. 151. 100. 0. -M= -139. 0. 0. 0. -69.
 (1) (1) (1) (6) (1) (6) (1) (1) (1) (5)
 As= 375. 388. 930. 503. 375. As= 748. 300. 300. 300. 375.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (0)

2D18 2D18 4D18 2D18 2D18 3D18 2D18 2D18 2D18
 2D18
 Rs= 0.25 0.26 0.62 0.34 0.25 Rs= 0.50 0.20 0.20 0.20 0.25
 V(6)= 106. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.3 & 106. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 94 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 91. 228. 127. 0. -M= -187. 0. 0. 0. -93.
 (1) (1) (1) (6) (1) (6) (1) (1) (1) (5)
 As= 375. 543. 1477. 680. 375. As= 1086. 300. 300. 300. 411.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (5)
 2D18 3D18 6D18 3D18 2D18 5D18 2D18 2D18 2D18

2D18
 Rs= 0.25 0.36 0.98 0.45 0.25 Rs= 0.72 0.20 0.20 0.20 0.27
 V(1)= 138. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 123. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 95 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 91. 228. 130. 0. -M= -189. 0. 0. 0. -95.
 (1) (1) (1) (6) (1) (6) (1) (1) (1) (5)
 As= 375. 543. 1481. 686. 375. As= 1087. 300. 300. 300. 423.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (5)
 2D18 3D18 6D18 3D18 2D18 5D18 2D18 2D18 2D18

2D18
 Rs= 0.25 0.36 0.99 0.46 0.25 Rs= 0.72 0.20 0.20 0.20 0.28
 V(6)= 139. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 139. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 96 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 91. 228. 132. 0. -M= -192. 0. 0. 0. -99.
 (1) (1) (1) (6) (1) (6) (1) (1) (1) (5)
 As= 375. 543. 1481. 686. 375. As= 1087. 300. 300. 300. 439.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (5)
 2D18 3D18 6D18 3D18 2D18 5D18 2D18 2D18 2D18

2D18
 Rs= 0.25 0.36 0.99 0.46 0.25 Rs= 0.72 0.20 0.20 0.20 0.29
 V(6)= 140. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 121. Ast(0)= 0. 0D 0 Astv = 0. 0D 0

Ast1 = 0. 0D 0

N-B= 97 (1)B*H(mm)= 250* 600 Lb= 7.12(m)

| | | | | | | | | | | | |
|-----|------|------|-------|------|------|-----|-------|------|------|------|-------|
| | -I- | -1- | -2- | -3- | -J- | | -I- | -1- | -2- | -3- | -J- |
| +M= | 0. | 91. | 228. | 135. | 0. | -M= | -195. | 0. | 0. | 0. | -102. |
| | (1) | (1) | (1) | (6) | (1) | | (6) | (1) | (1) | (1) | (5) |
| As= | 375. | 543. | 1481. | 686. | 375. | As= | 1087. | 300. | 300. | 300. | 455. |
| | (0) | (1) | (1) | (1) | (0) | | (1) | (0) | (0) | (0) | (5) |
| | 2D18 | 3D18 | 6D18 | 3D18 | 2D18 | | 5D18 | 2D18 | 2D18 | 2D18 | 2D18 |

2D18

| | | | | | | | | | | | |
|------------|--------|----------|----------|------|------|--------|--------|------|------|------|------|
| Rs= | 0.25 | 0.36 | 0.99 | 0.46 | 0.25 | Rs= | 0.72 | 0.20 | 0.20 | 0.20 | 0.30 |
| V(6)= | 141. | Asv(0)= | 37. | 2D 6 | Rsv= | 0.15 | | | | | |
| T & V(6)= | -0.1 & | 141. | Ast(0)= | 0. | 0D 0 | Astv = | 0. | 0D 0 | | | |
| | | | | | | | Ast1 = | 0. | 0D 0 | | |

N-B= 98 (1)B*H(mm)= 250* 600 Lb= 7.12(m)

| | | | | | | | | | | | |
|-----|------|------|-------|------|------|-----|-------|------|------|------|-------|
| | -I- | -1- | -2- | -3- | -J- | | -I- | -1- | -2- | -3- | -J- |
| +M= | 0. | 91. | 228. | 137. | 0. | -M= | -197. | 0. | 0. | 0. | -106. |
| | (1) | (1) | (1) | (6) | (1) | | (6) | (1) | (1) | (1) | (5) |
| As= | 375. | 543. | 1481. | 686. | 375. | As= | 1087. | 300. | 300. | 300. | 472. |
| | (0) | (1) | (1) | (1) | (0) | | (1) | (0) | (0) | (0) | (5) |
| | 2D18 | 3D18 | 6D18 | 3D18 | 2D18 | | 5D18 | 2D18 | 2D18 | 2D18 | 2D18 |

2D18

| | | | | | | | | | | | |
|------------|-------|----------|----------|------|------|--------|--------|------|------|------|------|
| Rs= | 0.25 | 0.36 | 0.99 | 0.46 | 0.25 | Rs= | 0.72 | 0.20 | 0.20 | 0.20 | 0.31 |
| V(6)= | 141. | Asv(0)= | 37. | 2D 6 | Rsv= | 0.15 | | | | | |
| T & V(5)= | 0.1 & | 119. | Ast(0)= | 0. | 0D 0 | Astv = | 0. | 0D 0 | | | |
| | | | | | | | Ast1 = | 0. | 0D 0 | | |

N-B= 99 (1)B*H(mm)= 250* 600 Lb= 7.12(m)

| | | | | | | | | | | | |
|-----|------|------|-------|------|------|-----|-------|------|------|------|-------|
| | -I- | -1- | -2- | -3- | -J- | | -I- | -1- | -2- | -3- | -J- |
| +M= | 0. | 91. | 228. | 139. | 0. | -M= | -200. | 0. | 0. | 0. | -109. |
| | (1) | (1) | (1) | (6) | (1) | | (6) | (1) | (1) | (1) | (5) |
| As= | 375. | 543. | 1481. | 686. | 375. | As= | 1087. | 300. | 300. | 300. | 488. |
| | (0) | (1) | (1) | (1) | (0) | | (1) | (0) | (0) | (0) | (5) |
| | 2D18 | 3D18 | 6D18 | 3D18 | 2D18 | | 5D18 | 2D18 | 2D18 | 2D18 | 2D18 |

2D18

| | | | | | | | | | | | |
|------------|--------|----------|----------|------|------|--------|--------|------|------|------|------|
| Rs= | 0.25 | 0.36 | 0.99 | 0.46 | 0.25 | Rs= | 0.72 | 0.20 | 0.20 | 0.20 | 0.33 |
| V(6)= | 142. | Asv(0)= | 37. | 2D 6 | Rsv= | 0.15 | | | | | |
| T & V(6)= | -0.1 & | 142. | Ast(0)= | 0. | 0D 0 | Astv = | 0. | 0D 0 | | | |
| | | | | | | | Ast1 = | 0. | 0D 0 | | |

N-B= 100 (1)B*H(mm)= 250* 600 Lb= 7.12(m)

| | | | | | | | | | | | |
|-----|-----|-----|------|------|-----|-----|-------|-----|-----|-----|-------|
| | -I- | -1- | -2- | -3- | -J- | | -I- | -1- | -2- | -3- | -J- |
| +M= | 0. | 91. | 228. | 142. | 1. | -M= | -203. | 0. | 0. | 0. | -113. |

(1) (1) (1) (6) (10) (6) (1) (1) (1) (5)
 As= 375. 543. 1481. 686. 375. As= 1087. 300. 300. 300. 504.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (5)
 2D18 3D18 6D18 3D18 2D18 5D18 2D18 2D18 2D18
 2D18
 Rs= 0.25 0.36 0.99 0.46 0.25 Rs= 0.72 0.20 0.20 0.20 0.34
 V(6)= 143. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 118. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

 N-B= 101 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 91. 229. 144. 3. -M= -206. 0. 0. 0. -118.
 (1) (1) (1) (6) (10) (6) (1) (1) (1) (5)
 As= 375. 546. 1491. 685. 375. As= 1094. 300. 300. 300. 526.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (5)
 2D18 3D18 6D18 3D18 2D18 5D18 2D18 2D18 2D18
 3D18
 Rs= 0.25 0.36 0.99 0.46 0.25 Rs= 0.73 0.20 0.20 0.20 0.35
 V(6)= 145. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 145. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

 N-B= 102 (1)B*H(mm)= 250* 600 Lb= 7.12(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 66. 154. 121. 23. -M= -163. 0. 0. 0. -101.
 (1) (1) (6) (6) (10) (6) (1) (1) (1) (5)
 As= 375. 391. 942. 543. 375. As= 755. 300. 300. 300. 448.
 (0) (1) (1) (6) (0) (1) (0) (0) (0) (5)
 2D18 2D18 4D18 3D18 2D18 3D18 2D18 2D18 2D18
 2D18
 Rs= 0.25 0.26 0.63 0.36 0.25 Rs= 0.50 0.20 0.20 0.20 0.30
 V(6)= 115. Asv(0)= 37. 2D 6 Rsv= 0.15
 T & V(5)= 0.4 & 90. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Ast1 = 0. 0D 0

 N-B= 103 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 53. 36. 0. -M= -58. 0. 0. 0. -56.
 (1) (1) (1) (1) (1) (5) (1) (1) (1) (6)
 As= 270. 293. 438. 293. 270. As= 472. 216. 216. 216. 449.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18
 2D18

Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.44 0.20 0.20 0.20 0.42
 V(1)= 73. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(1)= -1.9 & 73. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 104 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 54. 36. 0. -M= -59. 0. 0. 0. -59.
 (1) (1) (1) (1) (1) (5) (1) (1) (1) (6)
 As= 270. 293. 440. 293. 270. As= 456. 216. 216. 216. 462.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18 1D18
 2D18

Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.42 0.20 0.20 0.20 0.43
 V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 71. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 105 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 54. 36. 0. -M= -59. 0. 0. 0. -59.
 (1) (1) (1) (1) (1) (5) (1) (1) (1) (6)
 As= 270. 293. 439. 293. 270. As= 460. 216. 216. 216. 460.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18 1D18
 2D18

Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.43 0.20 0.20 0.20 0.43
 V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 71. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 106 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 0. 36. 54. 36. 0. -M= -59. 0. 0. 0. -59.
 (1) (1) (1) (1) (1) (5) (1) (1) (1) (6)
 As= 270. 293. 439. 293. 270. As= 459. 216. 216. 216. 461.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18 1D18
 2D18

Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.43 0.20 0.20 0.20 0.43
 V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 71. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 107 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

| | | | | | | | | | | | |
|-----|------|------|------|------|------|-----|------|------|------|------|------|
| | -I- | -1- | -2- | -3- | -J- | | -I- | -1- | -2- | -3- | -J- |
| +M= | 0. | 36. | 54. | 36. | 0. | -M= | -59. | 0. | 0. | 0. | -58. |
| | (1) | (1) | (1) | (1) | (1) | | (5) | (1) | (1) | (1) | (6) |
| As= | 270. | 293. | 441. | 293. | 270. | As= | 461. | 216. | 216. | 216. | 455. |
| | (0) | (1) | (1) | (1) | (0) | | (1) | (0) | (0) | (0) | (1) |
| | 2D18 | 2D18 | 2D18 | 2D18 | 2D18 | | 2D18 | 1D18 | 1D18 | 1D18 | 1D18 |

2D18

Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.43 0.20 0.20 0.20 0.42
 V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 71. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
 Astl = 0. 0D 0

N-B= 108 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

| | | | | | | | | | | | |
|-----|------|------|------|------|------|-----|------|------|------|------|------|
| | -I- | -1- | -2- | -3- | -J- | | -I- | -1- | -2- | -3- | -J- |
| +M= | 0. | 36. | 52. | 36. | 0. | -M= | -57. | 0. | 0. | 0. | -62. |
| | (1) | (1) | (1) | (1) | (1) | | (5) | (1) | (1) | (1) | (6) |
| As= | 270. | 293. | 425. | 293. | 270. | As= | 448. | 216. | 216. | 216. | 496. |
| | (0) | (1) | (1) | (1) | (0) | | (1) | (0) | (0) | (0) | (1) |
| | 2D18 | 2D18 | 2D18 | 2D18 | 2D18 | | 2D18 | 1D18 | 1D18 | 1D18 | 1D18 |

2D18

Rs= 0.25 0.27 0.39 0.27 0.25 Rs= 0.41 0.20 0.20 0.20 0.46
 V(1)= 73. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 70. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
 Astl = 0. 0D 0

N-B= 109 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

| | | | | | | | | | | | |
|-----|------|------|------|------|------|-----|------|------|------|------|------|
| | -I- | -1- | -2- | -3- | -J- | | -I- | -1- | -2- | -3- | -J- |
| +M= | 0. | 36. | 64. | 45. | 0. | -M= | -68. | 0. | 0. | 0. | -36. |
| | (1) | (1) | (1) | (5) | (1) | | (5) | (1) | (1) | (1) | (6) |
| As= | 270. | 293. | 530. | 341. | 270. | As= | 536. | 216. | 216. | 216. | 270. |
| | (0) | (1) | (1) | (1) | (0) | | (1) | (0) | (0) | (0) | (0) |
| | 2D18 | 2D18 | 3D18 | 2D18 | 2D18 | | 3D18 | 1D18 | 1D18 | 1D18 | 1D18 |

2D18

Rs= 0.25 0.27 0.49 0.32 0.25 Rs= 0.50 0.20 0.20 0.20 0.25
 V(1)= 80. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(1)= 0.5 & 80. Ast(0)= 0. 0D 0 Astv= 0. 0D 0
 Astl = 0. 0D 0

N-B= 110 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

| | | | | | | | | | | | |
|-----|------|------|------|------|------|-----|------|------|------|------|------|
| | -I- | -1- | -2- | -3- | -J- | | -I- | -1- | -2- | -3- | -J- |
| +M= | 0. | 45. | 64. | 36. | 0. | -M= | -36. | 0. | 0. | 0. | -68. |
| | (1) | (6) | (1) | (1) | (1) | | (5) | (1) | (1) | (1) | (6) |
| As= | 270. | 342. | 530. | 293. | 270. | As= | 270. | 216. | 216. | 216. | 537. |

(0) (1) (1) (1) (0) (0) (0) (0) (1)
 2D18 2D18 3D18 2D18 2D18 2D18 1D18 1D18 1D18
 3D18
 Rs= 0.25 0.32 0.49 0.27 0.25 Rs= 0.25 0.20 0.20 0.20 0.50
 V(1)= 80. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(1)= -0.5 & 80. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

 N-B= 111 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 36. 52. 36. 0. -M= -62. 0. 0. 0. -57.
 (1) (1) (1) (1) (1) (5) (1) (1) (1) (6)
 As= 270. 293. 425. 293. 270. As= 495. 216. 216. 216. 448.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18

2D18
 Rs= 0.25 0.27 0.39 0.27 0.25 Rs= 0.46 0.20 0.20 0.20 0.42
 V(1)= 73. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -0.1 & 70. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

 N-B= 112 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 36. 54. 36. 0. -M= -58. 0. 0. 0. -59.
 (1) (1) (1) (1) (1) (5) (1) (1) (1) (6)
 As= 270. 293. 441. 293. 270. As= 454. 216. 216. 216. 462.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18

2D18
 Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.42 0.20 0.20 0.20 0.43
 V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 71. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

 N-B= 113 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 36. 54. 36. 0. -M= -59. 0. 0. 0. -59.
 (1) (1) (1) (1) (1) (5) (1) (1) (1) (6)
 As= 270. 293. 439. 293. 270. As= 460. 216. 216. 216. 460.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18

2D18
 Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.43 0.20 0.20 0.20 0.43
 V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15

T & V(6)= -0.1 & 71. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
Astl = 0. 0D 0

N-B= 114 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

| | | | | | | | | | | | |
|-----|------|------|------|------|------|-----|------|------|------|------|------|
| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
| +M= | 0. | 36. | 54. | 36. | 0. | -M= | -59. | 0. | 0. | 0. | -59. |
| | (1) | (1) | (1) | (1) | (1) | | (5) | (1) | (1) | (1) | (6) |
| As= | 270. | 293. | 439. | 293. | 270. | As= | 459. | 216. | 216. | 216. | 460. |
| | (0) | (1) | (1) | (1) | (0) | | (1) | (0) | (0) | (0) | (1) |
| | 2D18 | 2D18 | 2D18 | 2D18 | 2D18 | | 2D18 | 1D18 | 1D18 | 1D18 | 1D18 |

2D18

Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.43 0.20 0.20 0.20 0.43
V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
T & V(6)= -0.1 & 71. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
Astl = 0. 0D 0

N-B= 115 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

| | | | | | | | | | | | |
|-----|------|------|------|------|------|-----|------|------|------|------|------|
| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
| +M= | 0. | 36. | 54. | 36. | 0. | -M= | -59. | 0. | 0. | 0. | -59. |
| | (1) | (1) | (1) | (1) | (1) | | (5) | (1) | (1) | (1) | (6) |
| As= | 270. | 293. | 439. | 293. | 270. | As= | 459. | 216. | 216. | 216. | 461. |
| | (0) | (1) | (1) | (1) | (0) | | (1) | (0) | (0) | (0) | (1) |
| | 2D18 | 2D18 | 2D18 | 2D18 | 2D18 | | 2D18 | 1D18 | 1D18 | 1D18 | 1D18 |

2D18

Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.43 0.20 0.20 0.20 0.43
V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
T & V(5)= 0.1 & 71. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
Astl = 0. 0D 0

N-B= 116 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

| | | | | | | | | | | | |
|-----|------|------|------|------|------|-----|------|------|------|------|------|
| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
| +M= | 0. | 36. | 54. | 36. | 0. | -M= | -59. | 0. | 0. | 0. | -58. |
| | (1) | (1) | (1) | (1) | (1) | | (5) | (1) | (1) | (1) | (6) |
| As= | 270. | 293. | 441. | 293. | 270. | As= | 461. | 216. | 216. | 216. | 455. |
| | (0) | (1) | (1) | (1) | (0) | | (1) | (0) | (0) | (0) | (1) |
| | 2D18 | 2D18 | 2D18 | 2D18 | 2D18 | | 2D18 | 1D18 | 1D18 | 1D18 | 1D18 |

2D18

Rs= 0.25 0.27 0.41 0.27 0.25 Rs= 0.43 0.20 0.20 0.20 0.42
V(1)= 72. Asv(0)= 36. 2D 6 Rsv= 0.15
T & V(6)= -0.1 & 71. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
Astl = 0. 0D 0

N-B= 117 (1)B*H(mm)= 240* 450 Lb= 5.10(m)

| | | | | | | | | | | | |
|--|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|
| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
|--|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|

+M= 0. 36. 52. 36. 0. -M= -57. 0. 0. 0. -62.
 (1) (1) (1) (1) (1) (5) (1) (1) (1) (6)
 As= 270. 293. 426. 293. 270. As= 449. 216. 216. 216. 492.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (1)
 2D18 2D18 2D18 2D18 2D18 2D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.27 0.39 0.27 0.25 Rs= 0.42 0.20 0.20 0.20 0.46
 V(1)= 73. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(5)= 0.1 & 70. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 118 (1)B*H(mm)= 240* 450 Lb= 5.10(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 0. 36. 63. 43. 0. -M= -67. 0. 0. 0. -38.
 (1) (1) (1) (5) (1) (5) (1) (1) (1) (6)
 As= 270. 293. 520. 323. 270. As= 528. 216. 216. 216. 270.
 (0) (1) (1) (1) (0) (1) (0) (0) (0) (0)
 2D18 2D18 3D18 2D18 2D18 3D18 1D18 1D18 1D18

2D18

Rs= 0.25 0.27 0.48 0.30 0.25 Rs= 0.49 0.20 0.20 0.20 0.25
 V(1)= 79. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(1)= 0.5 & 79. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 119 (1)B*H(mm)= 240* 3300 Lb= 1.50(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 176. 271. 325. 374. 347. -M= -181. -278. -344. -418. -416.
 (10) (10) (10) (10) (10) (5) (5) (5) (5) (5)
 As= 1980. 1584. 1584. 1584. 1980. As= 1980. 1584. 1584. 1584. 1980.
 (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)
 8D18 7D18 7D18 7D18 8D18 8D18 7D18 7D18 7D18

8D18

Rs= 0.25 0.20 0.20 0.20 0.25 Rs= 0.25 0.20 0.20 0.20 0.25
 V(5)= 190. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= 0.6 & 136. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 120 (1)B*H(mm)= 240* 3300 Lb= 1.50(m)
 -I- -I- -2- -3- -J- -I- -I- -2- -3- -J-
 +M= 351. 320. 213. 156. 83. -M= -351. -305. -194. -146. -93.
 (6) (6) (6) (4) (8) (9) (9) (9) (7) (3)
 As= 1980. 1584. 1584. 1584. 1980. As= 1980. 1584. 1584. 1584. 1980.
 (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)
 8D18 7D18 7D18 7D18 8D18 8D18 7D18 7D18 7D18

8D18

Rs= 0.25 0.20 0.20 0.20 0.25 Rs= 0.25 0.20 0.20 0.20 0.25
 V(6)= 276. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= 0.2 & 276. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 121 (1)B*H(mm)= 240* 3300 Lb= 1.50(m)

| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|
| | -I- | -1- | -2- | -3- | -J- | | -I- | -1- | -2- | -3- | -J- |
| +M= | 117. | 154. | 163. | 164. | 132. | -M= | -121. | -124. | -108. | -97. | -77. |
| | (9) | (5) | (5) | (5) | (5) | | (6) | (10) | (10) | (10) | (10) |
| As= | 1980. | 1584. | 1584. | 1584. | 1980. | As= | 1980. | 1584. | 1584. | 1584. | 1980. |
| | (0) | (0) | (0) | (0) | (0) | | (0) | (0) | (0) | (0) | (0) |
| | 8D18 | 7D18 | 7D18 | 7D18 | 8D18 | | 8D18 | 7D18 | 7D18 | 7D18 | 7D18 |

8D18

Rs= 0.25 0.20 0.20 0.20 0.25 Rs= 0.25 0.20 0.20 0.20 0.25
 V(3)= 100. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -2.0 & 61. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 122 (1)B*H(mm)= 240* 3300 Lb= 1.50(m)

| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|
| | -I- | -1- | -2- | -3- | -J- | | -I- | -1- | -2- | -3- | -J- |
| +M= | 149. | 180. | 175. | 163. | 120. | -M= | -69. | -66. | -53. | -47. | -38. |
| | (3) | (3) | (3) | (3) | (3) | | (8) | (8) | (8) | (8) | (8) |
| As= | 1980. | 1584. | 1584. | 1584. | 1980. | As= | 1980. | 1584. | 1584. | 1584. | 1980. |
| | (0) | (0) | (0) | (0) | (0) | | (0) | (0) | (0) | (0) | (0) |
| | 8D18 | 7D18 | 7D18 | 7D18 | 8D18 | | 8D18 | 7D18 | 7D18 | 7D18 | 7D18 |

8D18

Rs= 0.25 0.20 0.20 0.20 0.25 Rs= 0.25 0.20 0.20 0.20 0.25
 V(5)= 55. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -1.5 & 52. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 123 (1)B*H(mm)= 240* 3300 Lb= 1.50(m)

| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|
| | -I- | -1- | -2- | -3- | -J- | | -I- | -1- | -2- | -3- | -J- |
| +M= | 154. | 239. | 286. | 328. | 303. | -M= | -112. | -201. | -273. | -355. | -372. |
| | (5) | (5) | (5) | (9) | (9) | | (10) | (10) | (10) | (6) | (6) |
| As= | 1980. | 1584. | 1584. | 1584. | 1980. | As= | 1980. | 1584. | 1584. | 1584. | 1980. |
| | (0) | (0) | (0) | (0) | (0) | | (0) | (0) | (0) | (0) | (0) |
| | 8D18 | 7D18 | 7D18 | 7D18 | 8D18 | | 8D18 | 7D18 | 7D18 | 7D18 | 7D18 |

8D18

Rs= 0.25 0.20 0.20 0.20 0.25 Rs= 0.25 0.20 0.20 0.20 0.25
 V(6)= 215. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(4)= -0.8 & 58. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

N-B= 124 (1)B*H(mm)= 240* 3600 Lb= 0.90(m)

| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|
| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
| +M= | 55. | 84. | 101. | 118. | 136. | -M= | -154. | -218. | -254. | -296. | -308. |
| | (7) | (7) | (7) | (10) | (10) | | (4) | (4) | (4) | (5) | (5) |
| As= | 2160. | 1728. | 1728. | 1728. | 2160. | As= | 2160. | 1728. | 1728. | 1728. | 2160. |
| | (0) | (0) | (0) | (0) | (0) | | (0) | (0) | (0) | (0) | (0) |
| | 7D20 | 7D18 | 7D18 | 7D18 | 7D20 | | 7D20 | 7D18 | 7D18 | 7D18 | 7D18 |

7D20

| | | | | | | | | | | | |
|------------|-------|----------|----------|------|------|--------|------|------|------|------|------|
| Rs= | 0.25 | 0.20 | 0.20 | 0.20 | 0.25 | Rs= | 0.25 | 0.20 | 0.20 | 0.20 | 0.25 |
| V(5)= | 286. | Asv(0)= | 36. | 2D 6 | Rsv= | 0.15 | | | | | |
| T & V(6)= | 1.3 & | 183. | Ast(0)= | 0. | 0D 0 | Astv = | 0. | 0D 0 | | | |
| | | | | | | Astl = | 0. | 0D 0 | | | |

N-B= 125 (1)B*H(mm)= 240* 3300 Lb= 2.10(m)

| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|
| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
| +M= | 244. | 198. | 88. | 81. | 133. | -M= | -201. | -123. | -18. | -39. | -144. |
| | (5) | (5) | (5) | (6) | (10) | | (10) | (10) | (10) | (9) | (5) |
| As= | 1980. | 1584. | 1584. | 1584. | 1980. | As= | 1980. | 1584. | 1584. | 1584. | 1980. |
| | (0) | (0) | (0) | (0) | (0) | | (0) | (0) | (0) | (0) | (0) |
| | 8D18 | 7D18 | 7D18 | 7D18 | 8D18 | | 8D18 | 7D18 | 7D18 | 7D18 | 7D18 |

8D18

| | | | | | | | | | | | |
|------------|--------|----------|----------|------|------|--------|------|------|------|------|------|
| Rs= | 0.25 | 0.20 | 0.20 | 0.20 | 0.25 | Rs= | 0.25 | 0.20 | 0.20 | 0.20 | 0.25 |
| V(5)= | 229. | Asv(0)= | 36. | 2D 6 | Rsv= | 0.15 | | | | | |
| T & V(6)= | -1.2 & | 200. | Ast(0)= | 0. | 0D 0 | Astv = | 0. | 0D 0 | | | |
| | | | | | | Astl = | 0. | 0D 0 | | | |

N-B= 126 (1)B*H(mm)= 240* 3300 Lb= 2.10(m)

| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|
| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
| +M= | 539. | 368. | 75. | 312. | 478. | -M= | -472. | -264. | 0. | -238. | -461. |
| | (6) | (6) | (6) | (5) | (5) | | (9) | (9) | (1) | (10) | (10) |
| As= | 1980. | 1584. | 1584. | 1584. | 1980. | As= | 1980. | 1584. | 1584. | 1584. | 1980. |
| | (0) | (0) | (0) | (0) | (0) | | (0) | (0) | (0) | (0) | (0) |
| | 8D18 | 7D18 | 7D18 | 7D18 | 8D18 | | 8D18 | 7D18 | 7D18 | 7D18 | 7D18 |

8D18

| | | | | | | | | | | | |
|------------|--------|----------|----------|------|------|--------|------|------|------|------|------|
| Rs= | 0.25 | 0.20 | 0.20 | 0.20 | 0.25 | Rs= | 0.25 | 0.20 | 0.20 | 0.20 | 0.25 |
| V(6)= | 520. | Asv(0)= | 36. | 2D 6 | Rsv= | 0.15 | | | | | |
| T & V(6)= | -1.8 & | 520. | Ast(0)= | 0. | 0D 0 | Astv = | 0. | 0D 0 | | | |
| | | | | | | Astl = | 0. | 0D 0 | | | |

N-B= 127 (1)B*H(mm)= 240* 3600 Lb= 0.90(m)

| | | | | | | | | | | | |
|-----|------|------|------|------|------|-----|-------|-------|-------|-------|-------|
| | -1- | -1- | -2- | -3- | -J- | | -1- | -1- | -2- | -3- | -J- |
| +M= | 281. | 398. | 457. | 513. | 472. | -M= | -294. | -404. | -458. | -515. | -479. |
| | (9) | (9) | (9) | (9) | (9) | | (6) | (6) | (6) | (6) | (6) |

As= 2160. 1728. 1728. 1728. 2160. As= 2160. 1728. 1728. 1728. 2160.
 (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)
 7D20 7D18 7D18 7D18 7D20 7D20 7D18 7D18 7D18

7D20

Rs= 0.25 0.20 0.20 0.20 0.25 Rs= 0.25 0.20 0.20 0.20 0.25
 V(5)= 236. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(4)= 0.8 & 202. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0

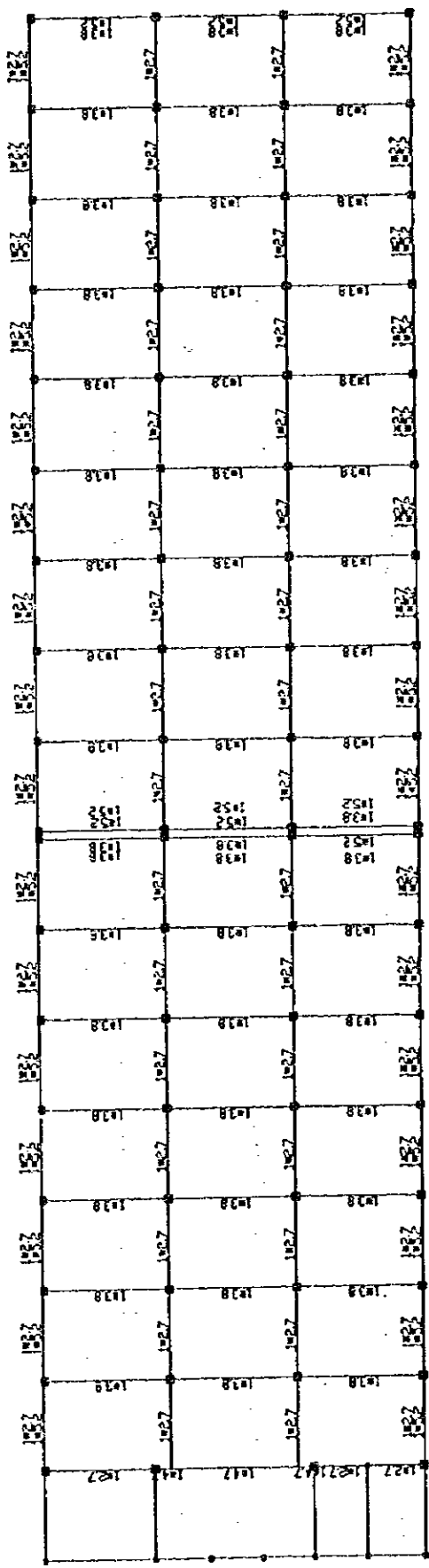
N-B= 128 (1)B*H(mm)= 240* 3600 Lb= 0.90(m)

-I- -1- -2- -3- -J- -I- -1- -2- -3- -J-
 +M= 105. 38. 3. 98. 168. -M= -198. -144. -99. -211. -271.
 (10) (7) (1) (9) (9) (5) (4) (6) (6) (6)

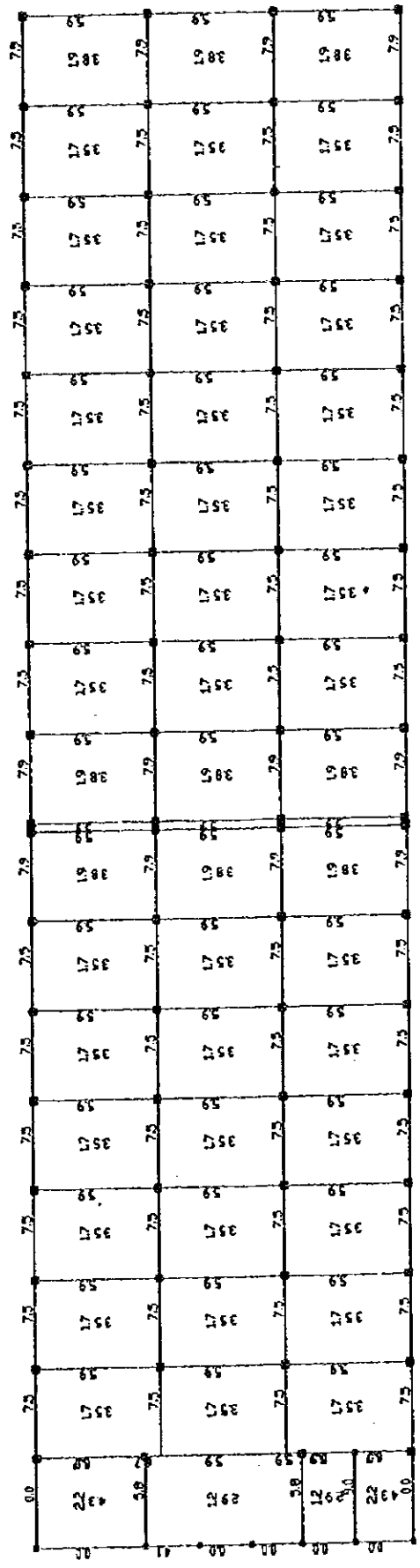
As= 2160. 1728. 1728. 1728. 2160. As= 2160. 1728. 1728. 1728. 2160.
 (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)
 7D20 7D18 7D18 7D18 7D20 7D20 7D18 7D18 7D18

7D20

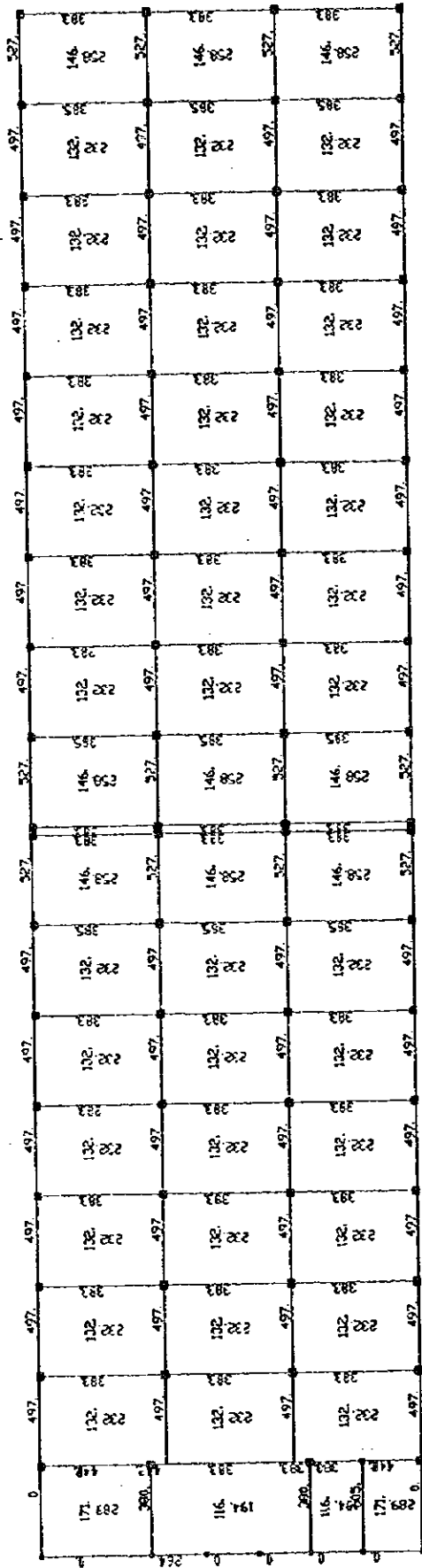
Rs= 0.25 0.20 0.20 0.20 0.25 Rs= 0.25 0.20 0.20 0.20 0.25
 V(6)= 431. Asv(0)= 36. 2D 6 Rsv= 0.15
 T & V(6)= -5.2 & 431. Ast(0)= 0. 0D 0 Astv = 0. 0D 0
 Astl = 0. 0D 0



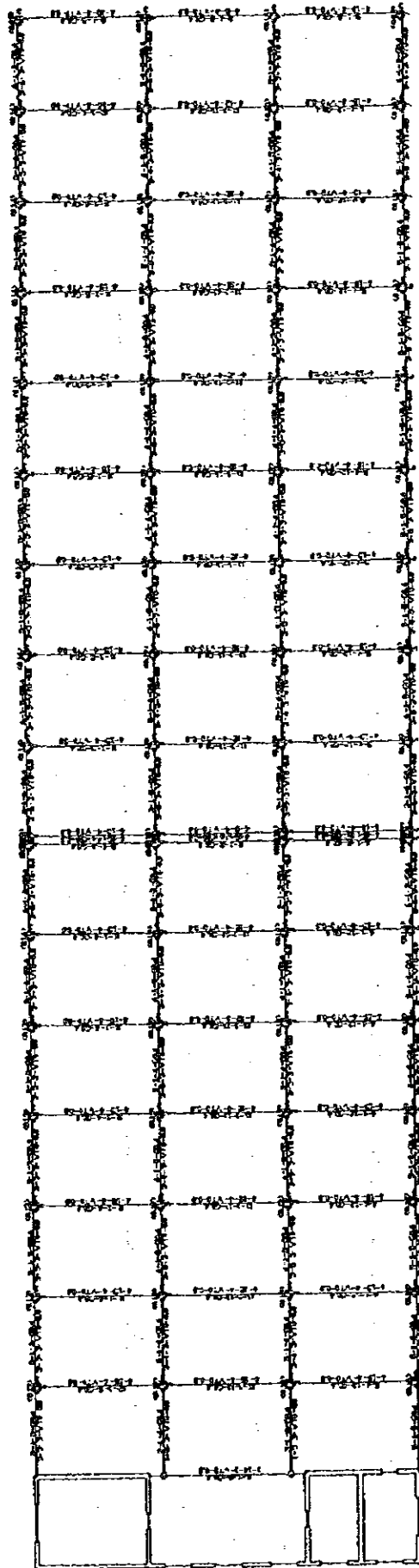
1st floor (beam and wall load)
第1层平面(梁和墙荷载)



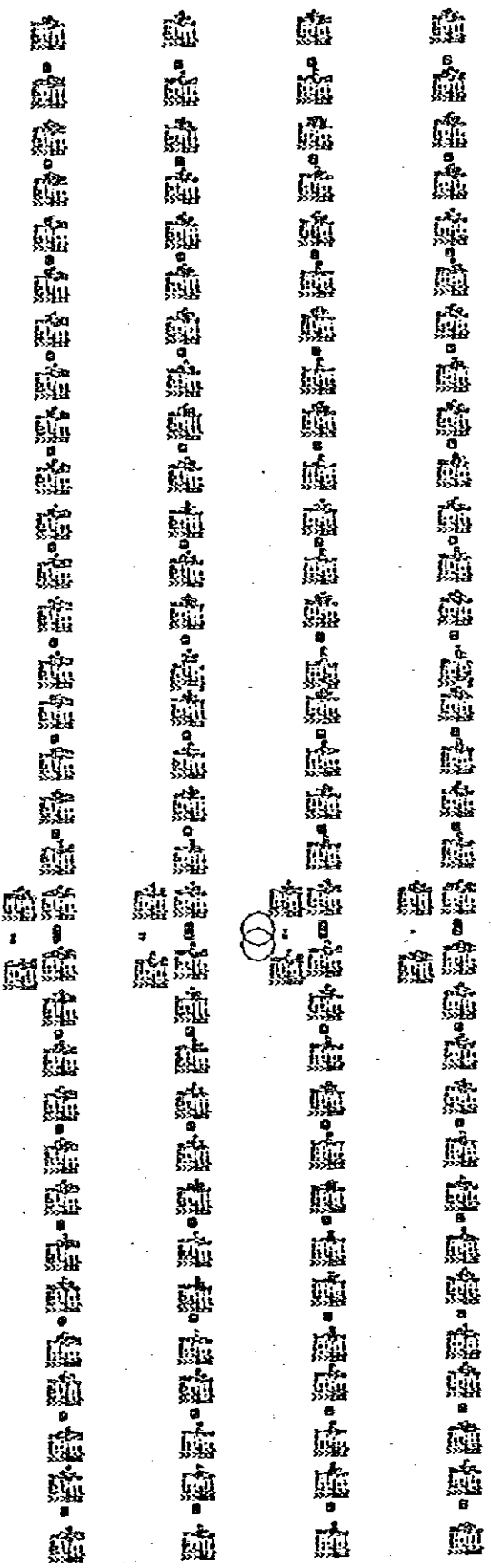
CAST-IN-SITU BOARD
BENDING MOMENT DRAWING (UNIT:KN-M)
现浇板弯矩图 (单位:千牛米)



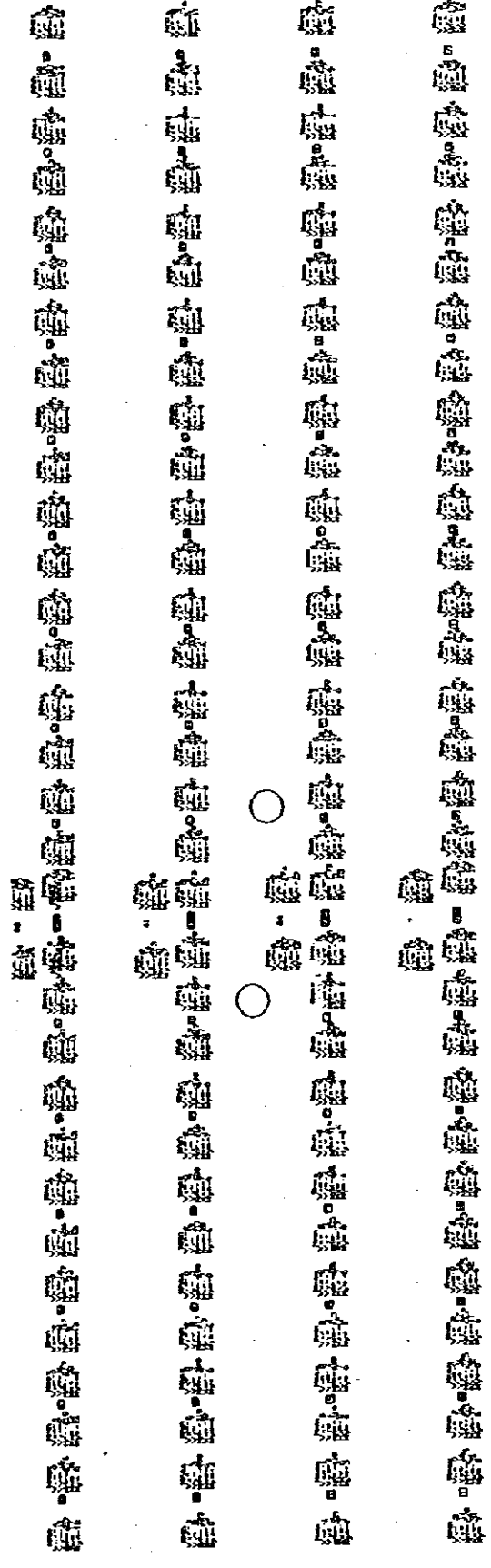
CAST-IN-SITU BOARD
 CALCULATION REINFORCEMENT
 (UNIT: mm² / m; STEEL GRADE: I.II; CONCRETE: C20)



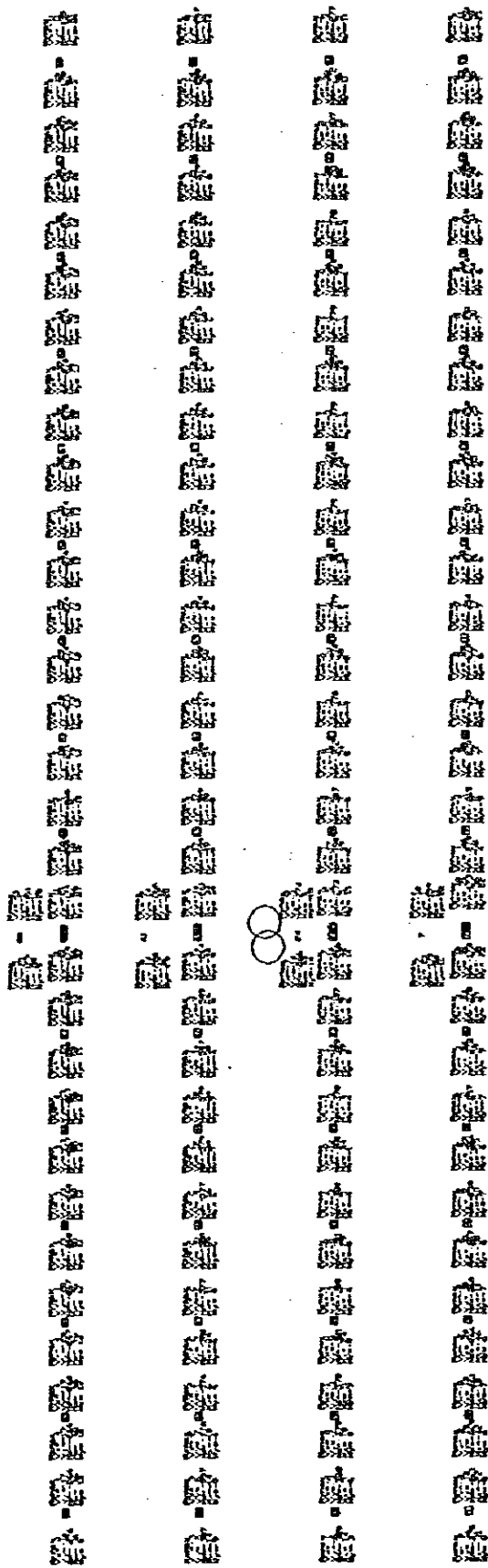
1st FLOOR BEAM REINFORCEMENT DRAWING
 (UNIT: CM*CM)



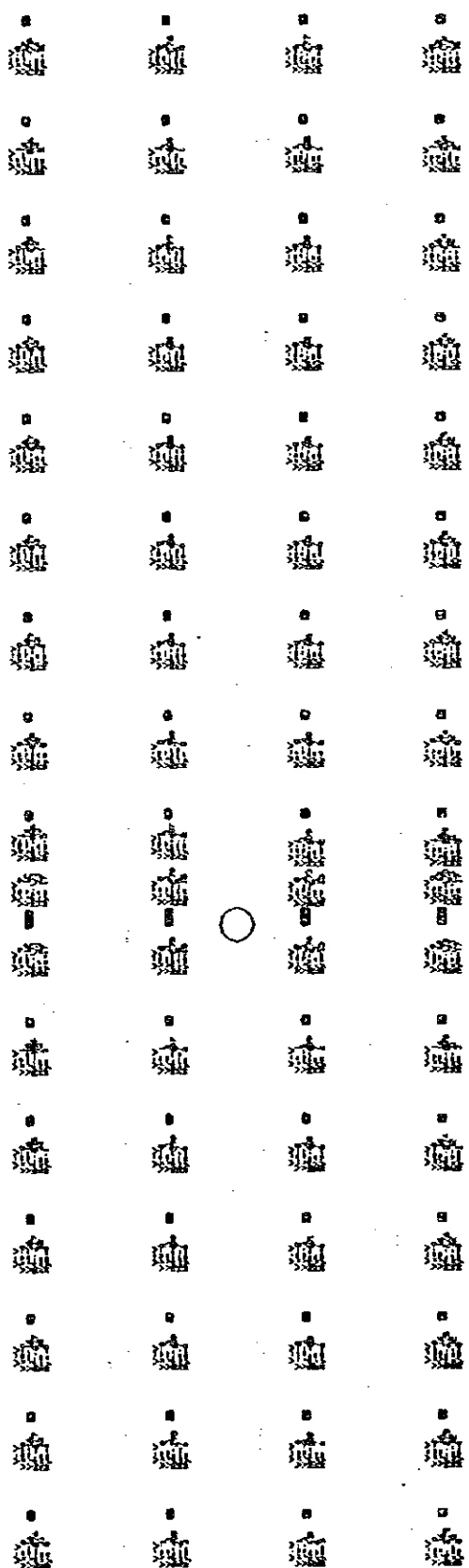
GROUND FLOOR MAXIMUM SHEARING FORCE
COMBINATION INTERNAL FORCES DRAWING (UNIT:KN,KN-M)



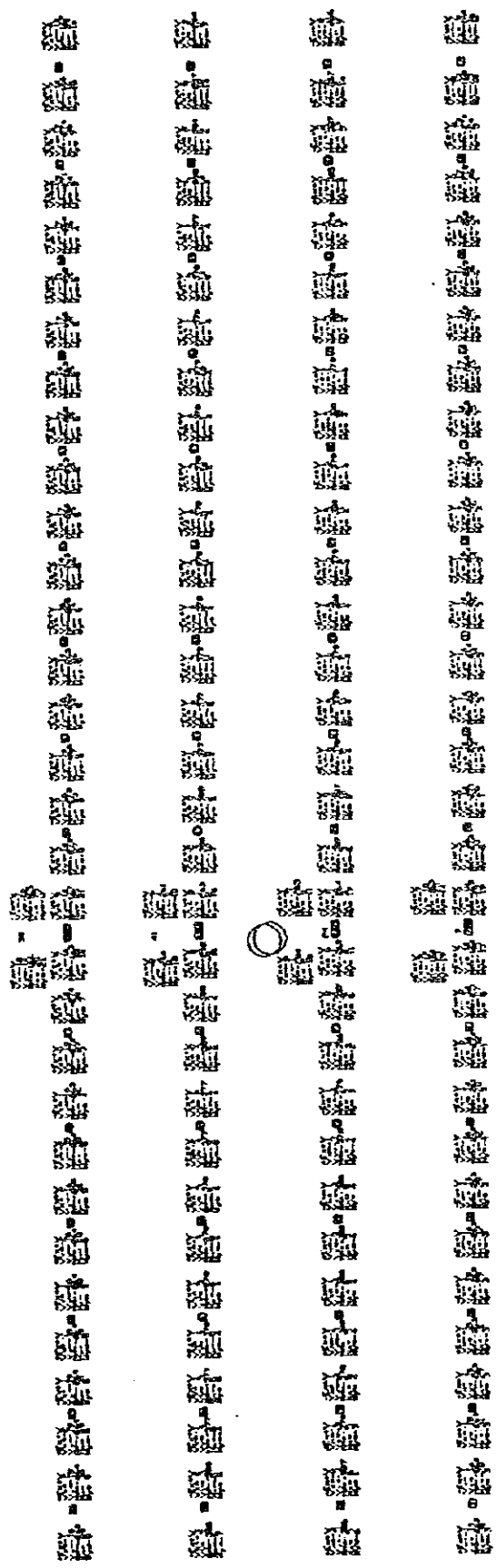
GROUND FLOOR MAXIMUM AXIAL FORCE
COMBINATION INTERNAL FORCES DRAWING (UNIT:KN,KN-M)



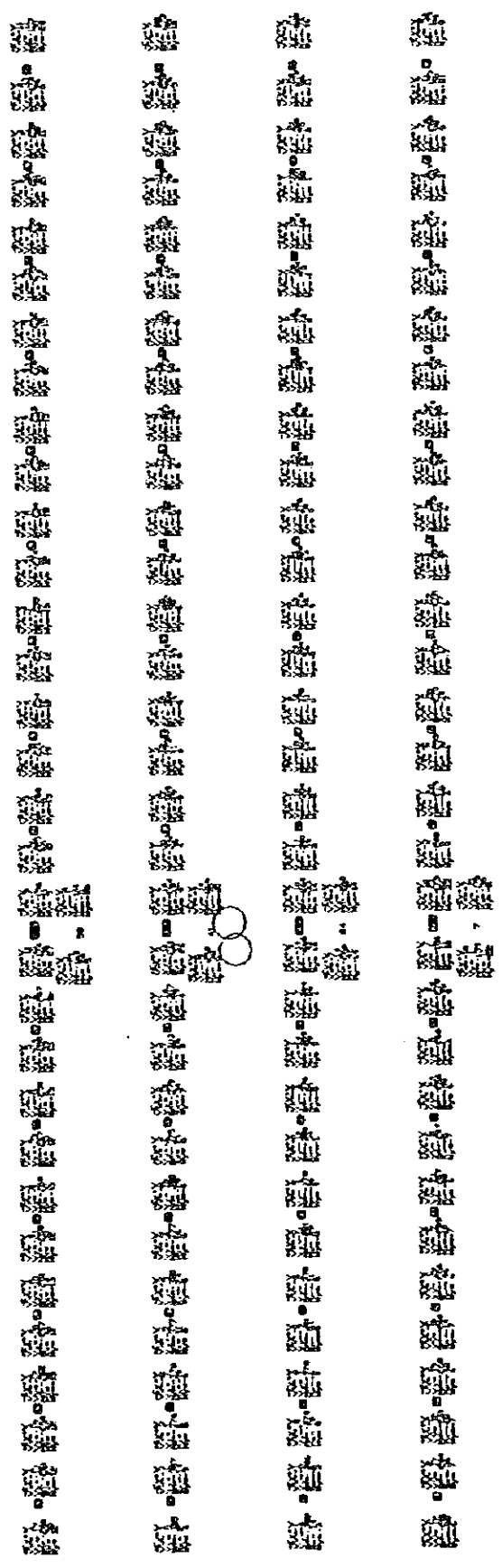
GROUND FLOOR MAXIMUM BENDING MOMENT
COMBINATION INTERNAL FORCES DRAWING (UNIT:KN,KN-M)



GROUND FLOOR DEAD LOAD + LIVE LOAD
COMBINATION INTERNAL FORCES DRAWING (UNIT:KN,KN-M)



GROUND FLOOR $E_x \pm V_y$
COMBINATION INTERNAL FORCES DRAWING (UNIT:KN,KN-M)

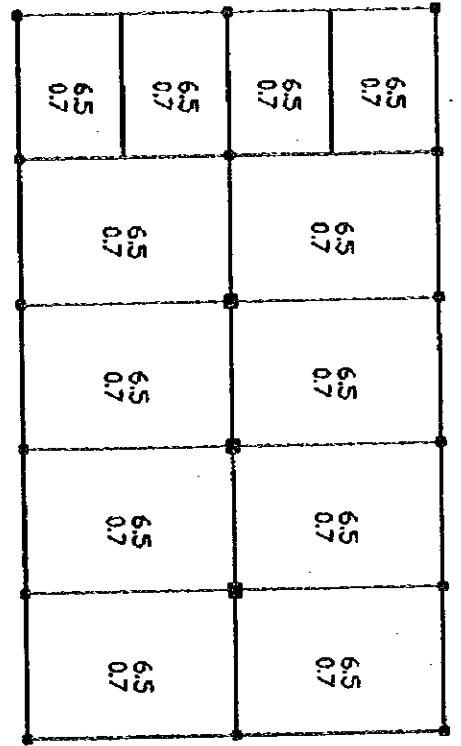


GROUND FLOOR $E_y \pm V_x$
COMBINATION INTERNAL FORCES DRAWING (UNIT:KN,KN-M)

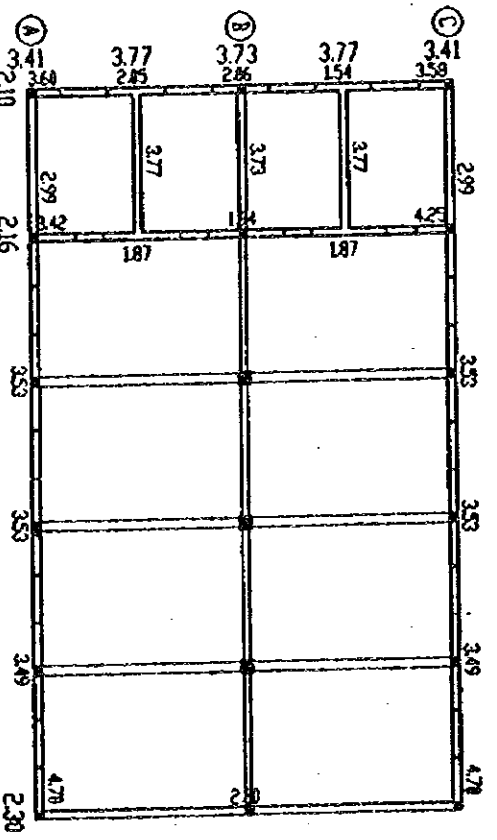


XIII. Conclusion:

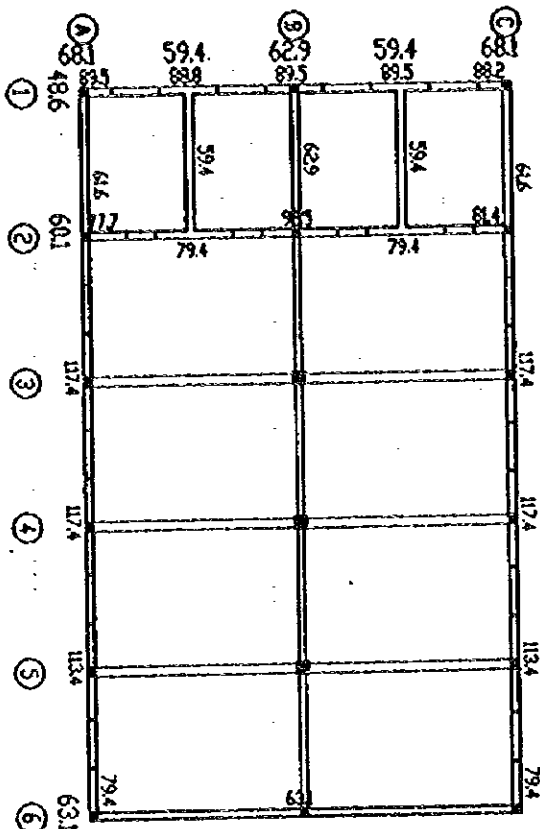
It is concluded from calculation above, the integral strength and deformation of structure meet the design requirements, the geometric dimensions also meet the requirements of strength and deformation regulated by Codes. The primary data of structural model, major calculation results, combining results of main internal forces of each member, structural layout, internal force drawing, reinforcing results of major members refer the next page, based on which construction drawings are made.



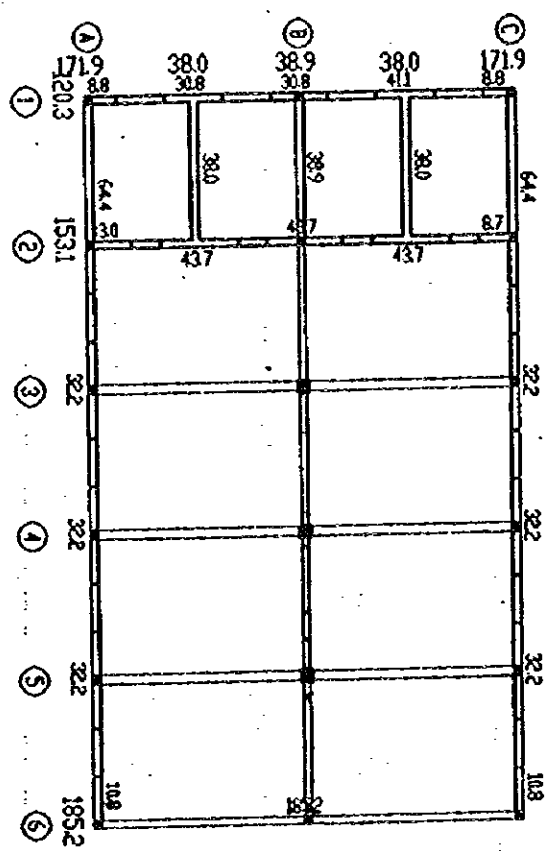
FLOOR LOAD



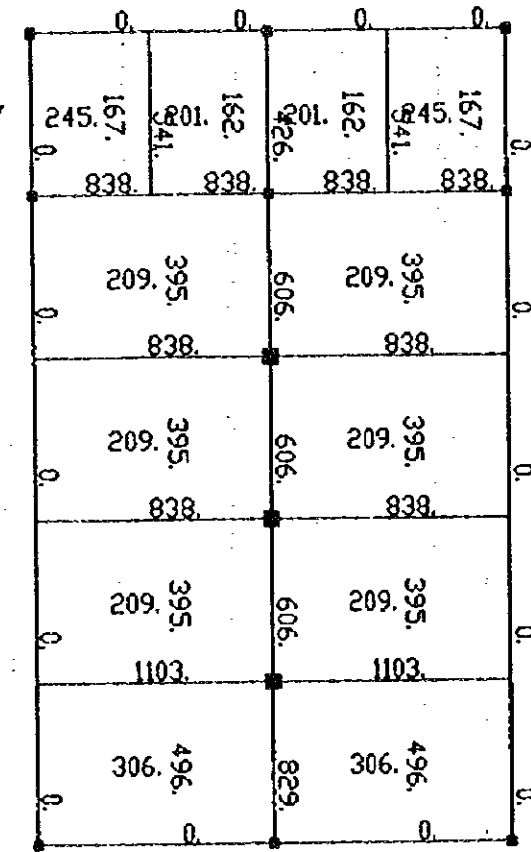
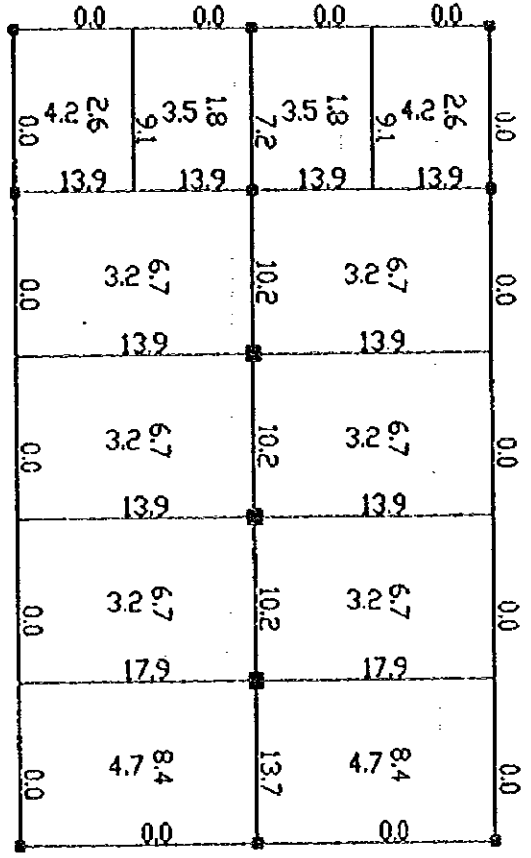
(ratio between resistance and affection)



Wall axial force design value drawing (kN/m)

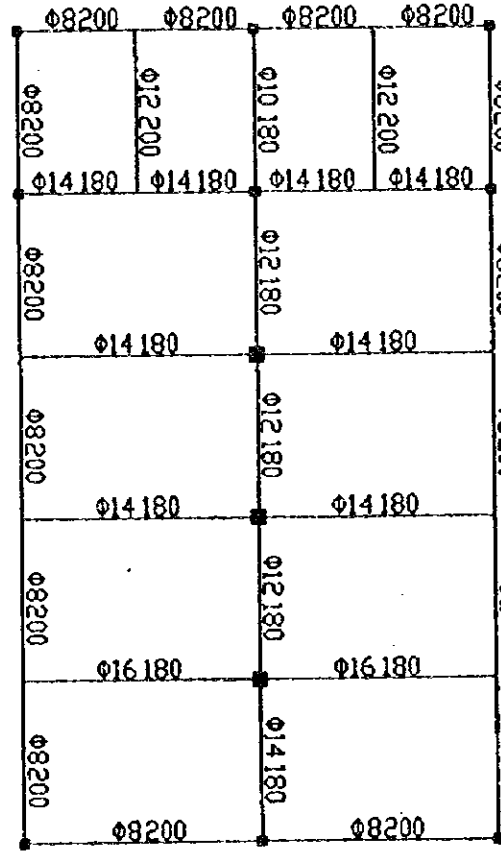
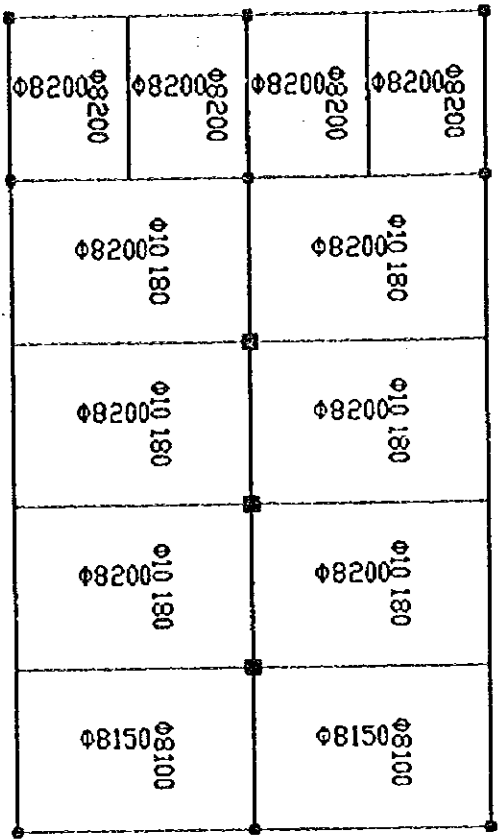


Earthquake shear force design value drawing (kN)



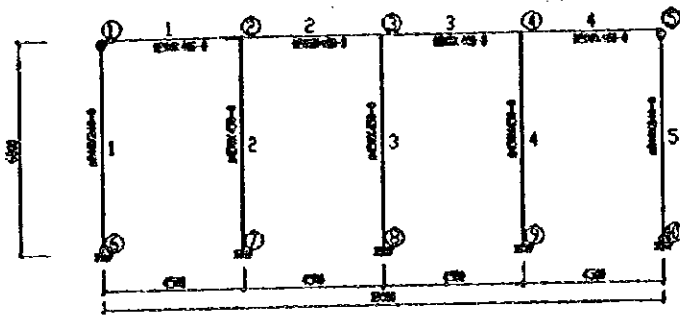
Cast-in-board bending moment drawing (KN-m)

Cast-in-situ board calculation reinforcement drawing (mm²)

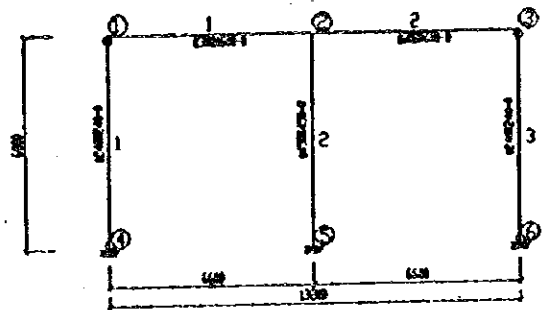


board in-span reinforcement drawing

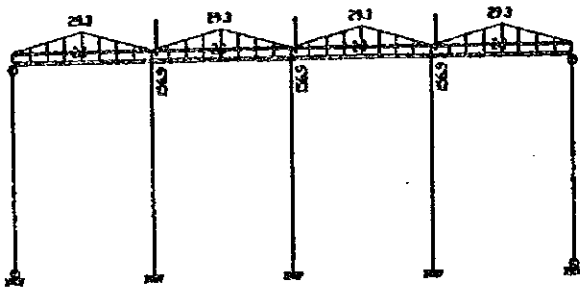
Cast-in-situ board abutment reinforcement drawing



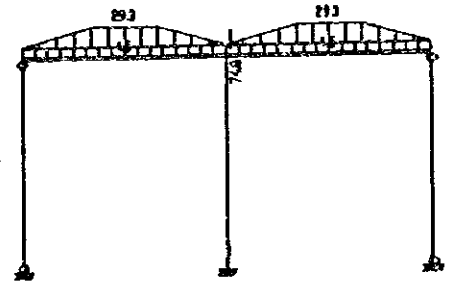
Frame elevation drawing



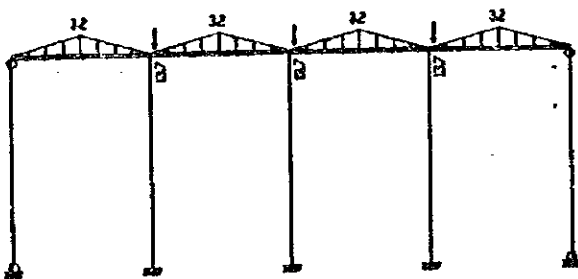
Frame elevation drawing



Constant load drawing

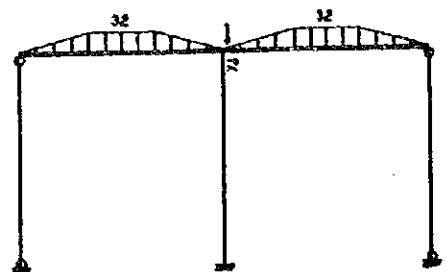


Constant load drawing



Living load drawing

LL-1 Drawing



Living load drawing

LL-2 Drawing

***** LL-2 calculation result *****

OUTPUT DATA

----- Zhong xin xi -----
 6 3 2 0 3 3 1 0 3 0 0 2 1 0
 1.00 1.00
 0

OUTPUT DATA

----- Jiao Dian Zuo Biao -----
 (1) 0.00 6.80 (2) 6.60 6.80 (3) 13.20 6.80 (4) 0.00 0.00
 (5) 6.60 0.00 (6) 13.20 0.00

OUTPUT DATA

----- Zhu Guan Lian Hao -----
 (1) 4 1 (2) 5 2 (3) 6 3
 ----- Liang Guan Lian Hao -----
 (1) 1 2 (2) 2 3

OUTPUT DATA

----- Zhi Zuo Yue Shu Xin Xi -----
 (1) 4111 (2) 5111 (3) 6111

OUTPUT DATA

----- Shang Xia Zhu Jian Dian Pian Xin -----
 (1) 0.00 (2) 0.00 (3) 0.00 (4) 0.00 (5) 0.00 (6) 0.00

OUTPUT DATA

----- Biao Zhun Jie Mian Xin Xi -----
 (1) 1, 240, 240, 6
 (2) 1, 450, 450, 6
 (3) 1, 300, 600, 6

OUTPUT DATA

----- Zhu Ji Suan Chang Du(After consider steel) -----
 (1) 1.00 (2) 1.00 (3) 1.00

OUTPUT DATA

----- Zhu Bu Zhi(Hao)jie Mian Hao,Jiao Jie,Jiao Du -----
 (1) 1 3 0 (2) 2 0 0 (3) 1 3 0
 ----- Liang Bu Zhi(Hao)jie Mian Hao,Jiao Jie,Jiao Du -----
 (1) 3 0 0 (2) 3 0 0
 IIQQ= 27

STIF COMPUTE
 DEAD COMPUTE

| | | | | | | | | | | | | |
|--------------|-------|----|---|------|---|-------|--|------|----|---|----|----|
| JOINT LOAD: | | JR | | XM | | XN | | | | | | |
| | | 2 | | 0.00 | | 74.80 | | | | | | |
| | | 0 | | | | | | | | | | |
| COLUMN LOAD: | | JC | | KL | | P | | X | KX | | | |
| | | 0 | | | | | | | | | | |
| BEAM | LOAD: | NE | | LI | | KL | | P | | X | P1 | X1 |
| KL | P | X | | P1 | | X1 | | | | | | |
| | | 1 | 2 | | 1 | 4.50 | | 0.00 | | | | 6 |
| 29.30 | 2.25 | | | | | | | | | | | |
| | | 1 | 2 | | 1 | 4.50 | | 0.00 | | | | 6 |
| 29.30 | 2.25 | | | | | | | | | | | |

****DEAD LOAD****

| | | | | | | | | | | | | |
|--------------|-------|--------------|---|------|---|--------------|--|------|----|---|----|----|
| | | STIF COMPUTE | | | | LIVE COMPUTE | | | | | | |
| JOINT LOAD: | | JR | | XM | | XN | | | | | | |
| | | 2 | | 0.00 | | 7.10 | | | | | | |
| | | 0 | | | | | | | | | | |
| COLUMN LOAD: | | JC | | KL | | P | | X | KX | | | |
| | | 0 | | | | | | | | | | |
| BEAM | LOAD: | NE | | LI | | KL | | P | | X | P1 | X1 |
| KL | P | X | | P1 | | X1 | | | | | | |
| | | 1 | 1 | | 6 | 3.20 | | 2.25 | | | | |
| | | 1 | 1 | | 6 | 3.20 | | 2.25 | | | | |

EART COMPUTE

1 7 4.00 0 1 1.00 0

1
433.584

1 T= 0.7834
1.000
34.687

****DISPLACEMENT****

(1)0.012 (2)0.012 (3)0.012 (4)0.000 (5)0.000 (6)0.000

3
433.584

1 T= 0.7834
1.000
34.687

****DISPLACEMENT****

(1)-0.012 (2)-0.012 (3)-0.012 (4)0.000 (5)0.000 (6)0.000

COMBI COMPUTE

****COMBINATION AND REINFORCEMENT****

Concrete COLUMN 1(SECTION TYPE= 1, ANG= 0, Lx= 6.80, Ly= 6.80)
 Section property: B= 240, H= 240

| M | NUMBER | M | N | V | M | N | V | NUMBER | | |
|-------|--------|-------|-------|-------|-------|--------|-------|--------|-------|-------|
| | N | V | M | N | V | N | V | | | |
| 0.00 | 1 | -0.01 | 78.18 | 0.00 | -0.02 | -66.43 | 0.00 | 2 | -0.01 | 65.15 |
| 0.00 | 3 | -0.01 | 78.18 | 0.00 | -0.02 | -66.43 | 0.00 | 4 | -0.01 | 65.15 |
| 0.00 | 5 | -0.01 | 76.83 | 0.00 | -0.01 | -65.08 | 0.00 | 6 | 0.00 | 63.80 |
| 0.00 | 7 | -0.01 | 86.31 | 0.00 | -0.02 | -74.56 | 0.00 | 8 | -0.01 | 73.28 |
| 0.00 | 9 | -0.01 | 86.31 | 0.00 | -0.02 | -74.56 | 0.00 | 10 | -0.01 | 73.28 |
| 0.00 | 11 | -0.01 | 76.83 | 0.00 | -0.01 | -65.08 | 0.00 | 12 | 0.00 | 63.80 |
| 0.00 | 13 | -0.01 | 77.03 | 0.00 | -0.01 | -65.28 | 0.00 | 14 | -0.01 | 64.00 |
| 0.00 | 15 | -0.01 | 85.09 | 0.00 | -0.02 | -73.34 | 0.00 | 16 | -0.01 | 72.06 |
| 0.00 | 17 | -0.01 | 85.09 | 0.00 | -0.02 | -73.34 | 0.00 | 18 | -0.01 | 72.06 |
| 0.00 | 19 | -0.01 | 77.03 | 0.00 | -0.01 | -65.28 | 0.00 | 20 | -0.01 | 64.00 |
| 0.00 | 21 | -0.01 | 77.03 | 0.00 | -0.01 | -65.28 | 0.00 | 22 | -0.01 | 64.00 |
| 0.00 | 23 | -0.01 | 85.09 | 0.00 | -0.02 | -73.34 | 0.00 | 24 | -0.01 | 72.06 |
| 0.00 | 25 | -0.01 | 85.09 | 0.00 | -0.02 | -73.34 | 0.00 | 26 | -0.01 | 72.06 |
| 0.00 | 27 | -0.01 | 77.03 | 0.00 | -0.01 | -65.28 | 0.00 | 28 | -0.01 | 64.00 |
| 0.01 | 29 | 0.03 | 67.07 | 0.01 | 0.03 | -55.32 | -0.01 | 30 | 0.04 | 54.14 |
| -0.02 | 31 | -0.05 | 92.19 | -0.02 | -0.06 | -80.44 | 0.02 | 32 | -0.05 | 78.58 |
| -0.02 | 33 | -0.05 | 92.19 | -0.02 | -0.06 | -80.44 | 0.02 | 34 | -0.05 | 78.58 |
| 0.01 | 35 | 0.03 | 67.07 | 0.01 | 0.03 | -55.32 | -0.01 | 36 | 0.04 | 54.14 |

NO 7 As= 46. M= -0.01 N= 86.31 NO 7 As=
 40. M= -0.02 N= -74.56
 GG= 173.

Concrete COLUMN 2(SECTION TYPE= 1, ANG= 0, Lx= 6.80, Ly= 6.80)
 Section property: B= 450, H= 450

| M | NUMBER | M | N | V | M | N | V | NUMBER | | |
|------|--------|------|--------|------|------|---------|------|--------|------|--------|
| | N | V | M | N | V | N | V | | | |
| 0.00 | 1 | 0.00 | 375.39 | 0.00 | 0.00 | -334.08 | 0.00 | 2 | 0.00 | 312.82 |
| 0.00 | 3 | 0.00 | 375.39 | 0.00 | 0.00 | -334.08 | 0.00 | 4 | 0.00 | 312.82 |
| 0.00 | 5 | 1.86 | 398.01 | 0.00 | 1.87 | -356.70 | 0.00 | 6 | 1.86 | 335.45 |

| | | | | | | | | | | |
|--------|---------|---------|--------|--------|---------|---------|--------|----|---------|--------|
| | 7 | -1.86 | 388.11 | 0.00 | -1.87 | -346.80 | 0.00 | 8 | -1.86 | 325.55 |
| 0.00 | -1.87 | -291.12 | 0.00 | | | | | | | |
| | 9 | 0.00 | 410.74 | 0.00 | 0.00 | -369.43 | 0.00 | 10 | 0.00 | 348.17 |
| 0.00 | 0.00 | -313.75 | 0.00 | | | | | | | |
| | 11 | 0.00 | 375.39 | 0.00 | 0.00 | -334.08 | 0.00 | 12 | 0.00 | 312.82 |
| 0.00 | 0.00 | -278.40 | 0.00 | | | | | | | |
| | 13 | 1.58 | 394.62 | 0.00 | 1.59 | -353.31 | 0.00 | 14 | 1.58 | 332.05 |
| 0.00 | 1.59 | -297.63 | 0.00 | | | | | | | |
| | 15 | -1.58 | 386.20 | 0.00 | -1.59 | -344.89 | 0.00 | 16 | -1.58 | 323.64 |
| 0.00 | -1.59 | -289.21 | 0.00 | | | | | | | |
| | 17 | 0.00 | 405.43 | 0.00 | 0.00 | -364.12 | 0.00 | 18 | 0.00 | 342.87 |
| 0.00 | 0.00 | -308.44 | 0.00 | | | | | | | |
| | 19 | 0.00 | 375.39 | 0.00 | 0.00 | -334.08 | 0.00 | 20 | 0.00 | 312.82 |
| 0.00 | 0.00 | -278.40 | 0.00 | | | | | | | |
| | 21 | 1.58 | 394.62 | 0.00 | 1.59 | -353.31 | 0.00 | 22 | 1.58 | 332.05 |
| 0.00 | 1.59 | -297.63 | 0.00 | | | | | | | |
| | 23 | -1.58 | 386.20 | 0.00 | -1.59 | -344.89 | 0.00 | 24 | -1.58 | 323.64 |
| 0.00 | -1.59 | -289.21 | 0.00 | | | | | | | |
| | 25 | 0.00 | 405.43 | 0.00 | 0.00 | -364.12 | 0.00 | 26 | 0.00 | 342.87 |
| 0.00 | 0.00 | -308.44 | 0.00 | | | | | | | |
| | 27 | 0.00 | 375.39 | 0.00 | 0.00 | -334.08 | 0.00 | 28 | 0.00 | 312.82 |
| 0.00 | 0.00 | -278.40 | 0.00 | | | | | | | |
| | 29 | 168.34 | 385.08 | 45.07 | 139.72 | -343.77 | -45.07 | 30 | 168.21 | 320.90 |
| 45.07 | 139.59 | -286.48 | -45.07 | | | | | | | |
| | 31 | -168.34 | 380.84 | -45.07 | -139.72 | -339.53 | 45.07 | 32 | -168.21 | 317.37 |
| -45.07 | -139.59 | -282.94 | 45.07 | | | | | | | |
| | 33 | 167.54 | 390.54 | 45.07 | 138.92 | -349.23 | -45.07 | 34 | 167.54 | 325.45 |
| 45.07 | 138.92 | -291.02 | -45.07 | | | | | | | |
| | 35 | -167.54 | 375.39 | -45.07 | -138.92 | -334.08 | 45.07 | 36 | -167.54 | 312.82 |
| -45.07 | -138.92 | -278.40 | 45.07 | | | | | | | |

NO 31 As= 860. M= -168.34 N= 380.84 NO 32 As=
 694. M= -139.59 N= -282.94
 GG= 608.

Concrete COLUMN 3(SECTION TYPE= 1, ANG= 0, Lx= 6.80, Ly= 6.80)
 Section property: B= 240, H= 240

| M | NUMBER | M | N | V | M | N | V | NUMBER | | |
|------|--------|--------|-------|------|------|--------|------|--------|------|-------|
| | N | V | M | N | V | N | V | | | |
| | 1 | 0.01 | 78.18 | 0.00 | 0.02 | -66.43 | 0.00 | 2 | 0.01 | 65.15 |
| 0.00 | 0.01 | -55.36 | 0.00 | | | | | | | |
| | 3 | 0.01 | 78.18 | 0.00 | 0.02 | -66.43 | 0.00 | 4 | 0.01 | 65.15 |
| 0.00 | 0.01 | -55.36 | 0.00 | | | | | | | |
| | 5 | 0.01 | 86.31 | 0.00 | 0.02 | -74.56 | 0.00 | 6 | 0.01 | 73.28 |
| 0.00 | 0.02 | -63.49 | 0.00 | | | | | | | |
| | 7 | 0.01 | 76.83 | 0.00 | 0.01 | -65.08 | 0.00 | 8 | 0.00 | 63.80 |
| 0.00 | 0.01 | -54.01 | 0.00 | | | | | | | |
| | 9 | 0.01 | 86.31 | 0.00 | 0.02 | -74.56 | 0.00 | 10 | 0.01 | 73.28 |
| 0.00 | 0.02 | -63.49 | 0.00 | | | | | | | |
| | 11 | 0.01 | 76.83 | 0.00 | 0.01 | -65.08 | 0.00 | 12 | 0.00 | 63.80 |
| 0.00 | 0.01 | -54.01 | 0.00 | | | | | | | |
| | 13 | 0.01 | 85.09 | 0.00 | 0.02 | -73.34 | 0.00 | 14 | 0.01 | 72.06 |
| 0.00 | 0.02 | -62.27 | 0.00 | | | | | | | |
| | 15 | 0.01 | 77.03 | 0.00 | 0.01 | -65.28 | 0.00 | 16 | 0.01 | 64.00 |
| 0.00 | 0.01 | -54.21 | 0.00 | | | | | | | |
| | 17 | 0.01 | 85.09 | 0.00 | 0.02 | -73.34 | 0.00 | 18 | 0.01 | 72.06 |

| | | | | | | | | | | |
|-------|-------|--------|-------|-------|-------|--------|-------|----|-------|-------|
| 0.00 | 0.02 | -62.27 | 0.00 | | | | | | | |
| 19 | | 0.01 | 77.03 | 0.00 | 0.01 | -65.28 | 0.00 | 20 | 0.01 | 64.00 |
| 0.00 | 0.01 | -54.21 | 0.00 | | | | | | | |
| 21 | | 0.01 | 85.09 | 0.00 | 0.02 | -73.34 | 0.00 | 22 | 0.01 | 72.06 |
| 0.00 | 0.02 | -62.27 | 0.00 | | | | | | | |
| 23 | | 0.01 | 77.03 | 0.00 | 0.01 | -65.28 | 0.00 | 24 | 0.01 | 64.00 |
| 0.00 | 0.01 | -54.21 | 0.00 | | | | | | | |
| 25 | | 0.01 | 85.09 | 0.00 | 0.02 | -73.34 | 0.00 | 26 | 0.01 | 72.06 |
| 0.00 | 0.02 | -62.27 | 0.00 | | | | | | | |
| 27 | | 0.01 | 77.03 | 0.00 | 0.01 | -65.28 | 0.00 | 28 | 0.01 | 64.00 |
| 0.00 | 0.01 | -54.21 | 0.00 | | | | | | | |
| 29 | | 0.05 | 92.19 | 0.02 | 0.06 | -80.44 | -0.02 | 30 | 0.05 | 78.58 |
| 0.02 | 0.06 | -68.79 | -0.02 | | | | | | | |
| 31 | | -0.04 | 67.07 | -0.01 | -0.03 | -55.32 | 0.01 | 32 | -0.04 | 54.14 |
| -0.01 | -0.03 | -44.34 | 0.01 | | | | | | | |
| 33 | | 0.05 | 92.19 | 0.02 | 0.06 | -80.44 | -0.02 | 34 | 0.05 | 78.58 |
| 0.02 | 0.06 | -68.79 | -0.02 | | | | | | | |
| 35 | | -0.04 | 67.07 | -0.01 | -0.03 | -55.32 | 0.01 | 36 | -0.04 | 54.14 |
| -0.01 | -0.03 | -44.34 | 0.01 | | | | | | | |

NO 5 As= 46. M= 0.01 N= 86.31 NO 5 As=
 40. M= 0.02 N= -74.56
 GG= 173.

Concrete BEAM 1(SECTION TYPE= 1 ANG= 0, L= 6.60)
 Section property: B= 300, H= 600
 BOTTOM

| | | | | | | | | | |
|---------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| SECTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 9 | 10 | 11 | 12 | 13 | | | | | |
| M= | -0.03 | -42.91 | -81.50 | -112.98 | -134.60 | -143.96 | -140.47 | -124.13 | -94.94 |
| -53.50 | -11.47 | 0.00 | 0.00 | | | | | | |
| As(1)= | 450. | 230. | 440. | 610. | 718. | 745. | 686. | 552. | 418. |
| 233. | 49. | 0. | 450. | | | | | | |
| As(2)= | 450. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 0. | 0. | 0. | 450. | | | | | | |

| | | | | | | | | |
|---------|-------|--------|--------|--------|------|------|------|------|
| SECTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | | | | |
| M= | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11.73 | 56.36 | 117.34 | 185.15 | 261.82 | | | | |
| As(1)= | 450. | 0. | 0. | 0. | 0. | 0. | 0. | 50. |
| 245. | 521. | 841. | 1272. | | | | | |
| As(2)= | 450. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 0. | 0. | 0. | 1272. | | | | | |

VI= 80.44 NO 13 Vr= 138.14 NO 15 Asv/s= 0.36 As(3)= 450.
 Umaxb= 0.004 Umaxt= 0.007

Concrete BEAM 2(SECTION TYPE= 1 ANG= 0, L= 6.60)
 Section property: B= 300, H= 600
 BOTTOM

| | | | | | | | | | |
|---------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| SECTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 9 | 10 | 11 | 12 | 13 | | | | | |
| M= | 0.00 | 0.00 | -11.47 | -53.50 | -94.94 | -124.13 | -140.47 | -143.96 | -134.60 |
| -112.98 | -81.50 | -42.91 | -0.03 | | | | | | |
| As(1)= | 450. | 0. | 49. | 233. | 418. | 552. | 686. | 745. | 718. |
| 610. | 440. | 230. | 450. | | | | | | |

| | | | | | | | | | | |
|------|-----------------|--------|--------|--------|-------|-------|--------|------|--------|------|
| 0. | As(2)= | 450. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 0. | 0. | 0. | 450. | | | | | | | |
| | TOP | | | | | | | | | |
| 9 | SECTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | 10 | 11 | 12 | 13 | | | | | | |
| 0.00 | M= | 261.82 | 185.15 | 117.34 | 56.36 | 11.73 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | | | | | | |
| 0. | As(1)= | 1272. | 841. | 521. | 245. | 50. | 0. | 0. | 0. | 0. |
| 0. | 0. | 0. | 450. | | | | | | | |
| 0. | As(2)= | 1272. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 0. | 0. | 0. | 450. | | | | | | | |
| | VI= | 138.14 | NO 13 | Vr= | 80.44 | NO 15 | Asv/s= | 0.36 | As(3)= | 450. |
| | Umaxb= | 0.004 | Umaxt= | 0.007 | | | | | | |
| | PK1 COMPUTE END | | | | | | | | | |

Umaxb= 0.005 Umaxt= 0.002

COMPUTE END

Calculation book Oil Depot Repair Shop

***** LL-1 Calculation Result *****

OUTPUT DATA

----- Zhong xin xi -----
10 5 4 0 5 3 1 0 3 0 0 2 1 0
1.00 1.00
0

OUTPUT DATA

----- Jiao Dian Zuo Biao -----
(1) 0.00 6.80 (2) 4.50 6.80 (3) 9.00 6.80 (4) 13.50 6.80
(5) 18.00 6.80 (6) 0.00 0.00 (7) 4.50 0.00 (8) 9.00 0.00
(9) 13.50 0.00 (10) 18.00 0.00

OUTPUT DATA

----- Zhu Guan Lian Hao -----
(1) 6 1 (2) 7 2 (3) 8 3 (4) 9 4 (5) 10 5

----- Liang Guan Lian Hao -----
(1) 1 2 (2) 2 3 (3) 3 4 (4) 4 5

OUTPUT DATA

----- Zhi Zuo Yue Shu Xin Xi -----
(1) 6111 (2) 7111 (3) 8111 (4) 9111 (5) 10111

OUTPUT DATA

----- Shang Xia Zhu Jian Dian Pian Xin -----
(1) 0.00 (2) 0.00 (3) 0.00 (4) 0.00 (5) 0.00 (6) 0.00 (7) 0.00
(8) 0.00 (9) 0.00 (10) 0.00

OUTPUT DATA

----- Biao Zhun Jie Mian Xin Xi -----
(1) 1, 240, 240, 6
(2) 1, 450, 450, 6
(3) 1, 200, 400, 6

OUTPUT DATA

----- Zhu Ji Suan Chang Du(After consider steel) -----

(1)1.00 (2)1.00 (3)1.00 (4)1.00 (5)1.00

OUTPUT DATA

---- Zhu Bu Zhi(Hao)Jie Mian Hao,Jiao Jie,Jiao Du ----
 (1) 1 3 0 (2) 2 0 0 (3) 2 0 0
 (4) 2 0 0 (5) 1 3 0

---- Liang Bu Zhi(Hao)Jie Mian Hao,Jiao Jie,Jiao Du ----
 (1) 3 0 0 (2) 3 0 0 (3) 3 0 0
 (4) 3 0 0

HQQ= 51

STIF COMPUTE
 DEAD COMPUTE

JOINT LOAD: JR XM XN
 2 0.00 156.90

Calculation book Oil Depot Repair Shop

3 0.00 156.90
 4 0.00 156.90
 0

COLUMN LOAD: JC KL P X KX
 0

| BEAM | LOAD: | NE | LI | KL | P | X | P1 | X1 |
|-------|-------|----|----|----|------|------|----|----|
| KL | P | X | P1 | X1 | | | | |
| | | 1 | 2 | 1 | 2.00 | 0.00 | | 6 |
| 29.30 | 2.25 | 1 | 2 | 1 | 2.00 | 0.00 | | 6 |
| 29.30 | 2.25 | 1 | 2 | 1 | 2.00 | 0.00 | | 6 |
| 29.30 | 2.25 | 1 | 2 | 1 | 2.00 | 0.00 | | 6 |
| 29.30 | 2.25 | 1 | 2 | 1 | 2.00 | 0.00 | | 6 |

DEAD LOAD

STIF COMPUTE
 LIVE COMPUTE

JOINT LOAD: JR XM XN
 2 0.00 13.70
 3 0.00 13.70
 4 0.00 13.70
 0

COLUMN LOAD: JC KL P X KX
 0

| BEAM | LOAD: | NE | LI | KL | P | X | P1 | X1 |
|------|-------|----|----|----|------|------|----|----|
| KL | P | X | P1 | X1 | | | | |
| | | 1 | 1 | 6 | 3.20 | 2.25 | | |

| | | | | |
|---|---|---|------|------|
| 1 | 1 | 6 | 3.20 | 2.25 |
| 1 | 1 | 6 | 3.20 | 2.25 |
| 1 | 1 | 6 | 3.20 | 2.25 |

EART COMPUTE

1 7 4.00 0 1 1.00 0

1
866.779

1 T= 0.7062
1.000
69.342

DISPLACEMENT

(1) 0.010 (2) 0.010 (3) 0.010 (4) 0.010 (5) 0.010 (6) 0.000 (7)
0.000 (8) 0.000 (9) 0.000
(10) 0.000

5
866.779

1 T= 0.7062

Calculation book Oil Depot Repair Shop

1.000
69.342

DISPLACEMENT

(1)-0.010 (2)-0.010 (3)-0.010 (4)-0.010 (5)-0.010 (6) 0.000 (7)
0.000 (8) 0.000 (9) 0.000
(10) 0.000

COMBI COMPUTE

COMBINATION AND REINFORCEMENT

Concrete COLUMN 1(SECTION TYPE= 1, ANG= 0, Lx= 6.80, Ly= 6.80)
Section property: B= 240, H= 240

| NUMBER | M | N | V | M | N | V | NUMBER | | |
|--------|-------|--------|------|-------|--------|------|--------|-------|-------|
| M | N | V | M | N | V | N | V | | |
| 1 | -0.01 | 43.89 | 0.00 | -0.02 | -32.14 | 0.00 | 2 | -0.01 | 36.57 |
| 0.00 | -0.02 | -26.78 | 0.00 | | | | | | |
| 3 | -0.01 | 43.89 | 0.00 | -0.02 | -32.14 | 0.00 | 4 | -0.01 | 36.57 |
| 0.00 | -0.02 | -26.78 | 0.00 | | | | | | |
| 5 | -0.01 | 43.60 | 0.00 | -0.02 | -31.85 | 0.00 | 6 | -0.01 | 36.28 |
| 0.00 | -0.02 | -26.49 | 0.00 | | | | | | |
| 7 | -0.01 | 47.77 | 0.00 | -0.02 | -36.02 | 0.00 | 8 | -0.01 | 40.45 |
| 0.00 | -0.02 | -30.66 | 0.00 | | | | | | |
| 9 | -0.01 | 47.77 | 0.00 | -0.02 | -36.02 | 0.00 | 10 | -0.01 | 40.45 |
| 0.00 | -0.02 | -30.66 | 0.00 | | | | | | |
| 11 | -0.01 | 43.60 | 0.00 | -0.02 | -31.85 | 0.00 | 12 | -0.01 | 36.28 |
| 0.00 | -0.02 | -26.49 | 0.00 | | | | | | |
| 13 | -0.01 | 43.64 | 0.00 | -0.02 | -31.89 | 0.00 | 14 | -0.01 | 36.33 |
| 0.00 | -0.02 | -26.53 | 0.00 | | | | | | |

| | | | | | | | | | |
|-------|-------|--------|-------|-------|--------|-------|----|-------|-------|
| 15 | -0.01 | 47.19 | 0.00 | -0.02 | -35.43 | 0.00 | 16 | -0.01 | 39.87 |
| 0.00 | -0.02 | -30.08 | 0.00 | | | | | | |
| 17 | -0.01 | 47.19 | 0.00 | -0.02 | -35.43 | 0.00 | 18 | -0.01 | 39.87 |
| 0.00 | -0.02 | -30.08 | 0.00 | | | | | | |
| 19 | -0.01 | 43.64 | 0.00 | -0.02 | -31.89 | 0.00 | 20 | -0.01 | 36.33 |
| 0.00 | -0.02 | -26.53 | 0.00 | | | | | | |
| 21 | -0.01 | 43.64 | 0.00 | -0.02 | -31.89 | 0.00 | 22 | -0.01 | 36.33 |
| 0.00 | -0.02 | -26.53 | 0.00 | | | | | | |
| 23 | -0.01 | 47.19 | 0.00 | -0.02 | -35.43 | 0.00 | 24 | -0.01 | 39.87 |
| 0.00 | -0.02 | -30.08 | 0.00 | | | | | | |
| 25 | -0.01 | 47.19 | 0.00 | -0.02 | -35.43 | 0.00 | 26 | -0.01 | 39.87 |
| 0.00 | -0.02 | -30.08 | 0.00 | | | | | | |
| 27 | -0.01 | 43.64 | 0.00 | -0.02 | -31.89 | 0.00 | 28 | -0.01 | 36.33 |
| 0.00 | -0.02 | -26.53 | 0.00 | | | | | | |
| 29 | 0.03 | 37.63 | 0.01 | 0.02 | -25.88 | -0.01 | 30 | 0.03 | 30.34 |
| 0.01 | 0.02 | -20.55 | -0.01 | | | | | | |
| 31 | -0.05 | 51.68 | -0.02 | -0.06 | -39.93 | 0.02 | 32 | -0.04 | 44.09 |
| -0.01 | -0.06 | -34.30 | 0.01 | | | | | | |
| 33 | -0.05 | 51.68 | -0.02 | -0.06 | -39.93 | 0.02 | 34 | -0.04 | 44.09 |
| -0.01 | -0.06 | -34.30 | 0.01 | | | | | | |
| 35 | 0.03 | 37.63 | 0.01 | 0.02 | -25.88 | -0.01 | 36 | 0.03 | 30.34 |
| 0.01 | 0.02 | -20.55 | -0.01 | | | | | | |

NO 7 As= 26. M= -0.01 N= 47.77 NO 7 As=
 20. M= -0.02 N= -36.02
 GG= 173.

Concrete COLUMN 2(SECTION TYPE= 1, ANG= 0, Lx= 6.80, Ly= 6.80)

Calculation book Oil Depot Repair Shop

Section property: B= 450, H= 450

| M | NUMBER | M | N | V | M | N | V | NUMBER | | |
|------|--------|---------|--------|------|-------|---------|-------|--------|------|--------|
| | N | V | M | N | V | | | | | |
| | 1 | 5.59 | 334.09 | 2.47 | 11.23 | -292.78 | -2.47 | 2 | 4.65 | 278.41 |
| 2.06 | 9.36 | -243.99 | -2.06 | | | | | | | |
| | 3 | 5.59 | 334.09 | 2.47 | 11.23 | -292.78 | -2.47 | 4 | 4.65 | 278.41 |
| 2.06 | 9.36 | -243.99 | -2.06 | | | | | | | |
| | 5 | 7.59 | 340.61 | 3.38 | 15.42 | -299.30 | -3.38 | 6 | 6.66 | 284.93 |
| 2.97 | 13.55 | -250.50 | -2.97 | | | | | | | |
| | 7 | 4.21 | 358.48 | 1.84 | 8.29 | -317.17 | -1.84 | 8 | 3.28 | 302.80 |
| 1.43 | 6.42 | -268.37 | -1.43 | | | | | | | |
| | 9 | 5.16 | 365.45 | 2.46 | 11.60 | -324.14 | -2.46 | 10 | 4.23 | 309.77 |
| 2.05 | 9.72 | -275.34 | -2.05 | | | | | | | |
| | 11 | 6.63 | 333.64 | 2.76 | 12.12 | -292.33 | -2.76 | 12 | 5.70 | 277.96 |
| 2.35 | 10.25 | -243.53 | -2.35 | | | | | | | |
| | 13 | 7.29 | 339.63 | 3.25 | 14.80 | -298.32 | -3.25 | 14 | 6.36 | 283.95 |
| 2.84 | 12.92 | -249.52 | -2.84 | | | | | | | |
| | 15 | 4.41 | 354.82 | 1.93 | 8.73 | -313.51 | -1.93 | 16 | 3.48 | 299.14 |
| 1.52 | 6.86 | -264.71 | -1.52 | | | | | | | |
| | 17 | 5.23 | 360.74 | 2.47 | 11.54 | -319.43 | -2.47 | 18 | 4.30 | 305.06 |
| 2.05 | 9.67 | -270.64 | -2.05 | | | | | | | |
| | 19 | 6.47 | 333.71 | 2.71 | 11.99 | -292.40 | -2.71 | 20 | 5.54 | 278.03 |
| 2.30 | 10.11 | -243.60 | -2.30 | | | | | | | |

| | | | | | | | | | |
|--------|---------|---------|--------|--------|---------|--------|----|---------|--------|
| 21 | 7.29 | 339.63 | 3.25 | 14.80 | -298.32 | -3.25 | 22 | 6.36 | 283.95 |
| 2.84 | 12.92 | -249.52 | -2.84 | | | | | | |
| 23 | 4.41 | 354.82 | 1.93 | 8.73 | -313.51 | -1.93 | 24 | 3.48 | 299.14 |
| 1.52 | 6.86 | -264.71 | -1.52 | | | | | | |
| 25 | 5.23 | 360.74 | 2.47 | 11.54 | -319.43 | -2.47 | 26 | 4.30 | 305.06 |
| 2.05 | 9.67 | -270.64 | -2.05 | | | | | | |
| 27 | 6.47 | 333.71 | 2.71 | 11.99 | -292.40 | -2.71 | 28 | 5.54 | 278.03 |
| 2.30 | 10.11 | -243.60 | -2.30 | | | | | | |
| 29 | 124.08 | 321.13 | 31.73 | 91.71 | -279.82 | -31.73 | 30 | 123.00 | 264.99 |
| 31.26 | 89.54 | -230.56 | -31.26 | | | | | | |
| 31 | -112.64 | 360.29 | -26.67 | -68.71 | -318.98 | 26.67 | 32 | -113.47 | 302.87 |
| -27.04 | -70.37 | -268.45 | 27.04 | | | | | | |
| 33 | -112.23 | 363.28 | -26.40 | -67.30 | -321.97 | 26.40 | 34 | -113.13 | 305.36 |
| -26.81 | -69.19 | -270.93 | 26.81 | | | | | | |
| 35 | 123.67 | 318.15 | 31.47 | 90.30 | -276.84 | -31.47 | 36 | 122.66 | 262.50 |
| 31.03 | 88.36 | -228.07 | -31.03 | | | | | | |

NO 30 As= 599. M= 123.00 N= 264.99 NO 30 As=
407. M= 89.54 N= -230.56
GG= 608.

Concrete COLUMN 3(SECTION TYPE= 1, ANG= 0, Lx= 6.80, Ly= 6.80)
Section property: B= 450, H= 450

| NUMBER | M | N | V | M | N | V | NUMBER | | |
|--------|-------|---------|-------|-------|---------|-------|--------|-------|--------|
| M | N | V | M | N | V | N | M | | |
| 1 | 0.00 | 315.95 | 0.00 | 0.00 | -274.64 | 0.00 | 2 | 0.00 | 263.29 |
| 0.00 | 0.00 | -228.87 | 0.00 | | | | | | |
| 3 | 0.00 | 315.95 | 0.00 | 0.00 | -274.64 | 0.00 | 4 | 0.00 | 263.29 |
| 0.00 | 0.00 | -228.87 | 0.00 | | | | | | |
| 5 | 2.90 | 339.99 | 1.05 | 4.26 | -298.68 | -1.05 | 6 | 2.90 | 287.33 |
| 1.05 | 4.26 | -252.91 | -1.05 | | | | | | |
| 7 | -2.90 | 320.79 | -1.05 | -4.26 | -279.48 | 1.05 | 8 | -2.90 | 268.13 |
| -1.05 | -4.26 | -233.71 | 1.05 | | | | | | |

| Calculation | book | Oil Depot | Repair | Shop | | | | | |
|-------------|-------|-----------|--------|-------|---------|-------|----|-------|--------|
| 9 | 0.00 | 346.00 | 0.00 | 0.00 | -304.69 | 0.00 | 10 | 0.00 | 293.34 |
| 0.00 | 0.00 | -258.92 | 0.00 | | | | | | |
| 11 | 0.00 | 314.78 | 0.00 | 0.00 | -273.47 | 0.00 | 12 | 0.00 | 262.12 |
| 0.00 | 0.00 | -227.70 | 0.00 | | | | | | |
| 13 | 2.46 | 336.38 | 0.89 | 3.62 | -295.07 | -0.89 | 14 | 2.46 | 283.72 |
| 0.89 | 3.62 | -249.30 | -0.89 | | | | | | |
| 15 | -2.46 | 320.07 | -0.89 | -3.62 | -278.76 | 0.89 | 16 | -2.46 | 267.41 |
| -0.89 | -3.62 | -232.98 | 0.89 | | | | | | |
| 17 | 0.00 | 341.49 | 0.00 | 0.00 | -300.18 | 0.00 | 18 | 0.00 | 288.84 |
| 0.00 | 0.00 | -254.41 | 0.00 | | | | | | |
| 19 | 0.00 | 314.95 | 0.00 | 0.00 | -273.64 | 0.00 | 20 | 0.00 | 262.30 |
| 0.00 | 0.00 | -227.87 | 0.00 | | | | | | |
| 21 | 2.46 | 336.38 | 0.89 | 3.62 | -295.07 | -0.89 | 22 | 2.46 | 283.72 |
| 0.89 | 3.62 | -249.30 | -0.89 | | | | | | |
| 23 | -2.46 | 320.07 | -0.89 | -3.62 | -278.76 | 0.89 | 24 | -2.46 | 267.41 |
| -0.89 | -3.62 | -232.98 | 0.89 | | | | | | |
| 25 | 0.00 | 341.49 | 0.00 | 0.00 | -300.18 | 0.00 | 26 | 0.00 | 288.84 |
| 0.00 | 0.00 | -254.41 | 0.00 | | | | | | |
| 27 | 0.00 | 314.95 | 0.00 | 0.00 | -273.64 | 0.00 | 28 | 0.00 | 262.30 |
| 0.00 | 0.00 | -227.87 | 0.00 | | | | | | |

| | | | | | | | | | |
|--------|---------|---------|--------|--------|---------|--------|----|---------|--------|
| 27 | 0.00 | 314.99 | 0.00 | 0.00 | -273.01 | 0.00 | 28 | 0.00 | 202.50 |
| 0.00 | 0.00 | -227.87 | 0.00 | | | | | | |
| 29 | 126.77 | 326.25 | 32.83 | 96.48 | -284.94 | -32.83 | 30 | 126.57 | 271.88 |
| 32.76 | 96.18 | -237.45 | -32.76 | | | | | | |
| 31 | -126.77 | 318.02 | -32.83 | -96.48 | -276.71 | 32.83 | 32 | -126.57 | 265.02 |
| -32.76 | -96.18 | -230.60 | 32.76 | | | | | | |
| 33 | -125.53 | 328.83 | -32.38 | -94.66 | -287.52 | 32.38 | 34 | -125.53 | 274.02 |
| -32.38 | -94.66 | -239.60 | 32.38 | | | | | | |
| 35 | 125.53 | 315.45 | 32.38 | 94.66 | -274.14 | -32.38 | 36 | 125.53 | 262.87 |
| 32.38 | 94.66 | -228.45 | -32.38 | | | | | | |

NO 32 As= 623. M= -126.57 N= 265.02 NO 32 As=
 451. M= -96.18 N= -230.60
 GG= 608.

Concrete COLUMN 4(SECTION TYPE= 1, ANG= 0, Lx= 6.80, Ly= 6.80)
 Section property: B= 450, H= 450

| M | NUMBER | M | N | V | M | N | V | NUMBER | | |
|-------|--------|---------|--------|-------|--------|---------|------|--------|-------|--------|
| | N | V | M | N | V | | | | | |
| | 1 | -5.59 | 334.09 | -2.47 | -11.23 | -292.78 | 2.47 | 2 | -4.65 | 278.41 |
| -2.06 | -9.36 | -243.99 | 2.06 | | | | | | | |
| | 3 | -5.59 | 334.09 | -2.47 | -11.23 | -292.78 | 2.47 | 4 | -4.65 | 278.41 |
| -2.06 | -9.36 | -243.99 | 2.06 | | | | | | | |
| | 5 | -4.21 | 358.48 | -1.84 | -8.29 | -317.17 | 1.84 | 6 | -3.28 | 302.80 |
| -1.43 | -6.42 | -268.37 | 1.43 | | | | | | | |
| | 7 | -7.59 | 340.61 | -3.38 | -15.42 | -299.30 | 3.38 | 8 | -6.66 | 284.93 |
| -2.97 | -13.55 | -250.50 | 2.97 | | | | | | | |
| | 9 | -5.16 | 365.45 | -2.46 | -11.60 | -324.14 | 2.46 | 10 | -4.23 | 309.77 |
| -2.05 | -9.72 | -275.34 | 2.05 | | | | | | | |
| | 11 | -6.63 | 333.64 | -2.76 | -12.12 | -292.33 | 2.76 | 12 | -5.70 | 277.96 |
| -2.35 | -10.25 | -243.53 | 2.35 | | | | | | | |
| | 13 | -4.41 | 354.82 | -1.93 | -8.73 | -313.51 | 1.93 | 14 | -3.48 | 299.14 |
| -1.52 | -6.86 | -264.71 | 1.52 | | | | | | | |
| | 15 | -7.29 | 339.63 | -3.25 | -14.80 | -298.32 | 3.25 | 16 | -6.36 | 283.95 |
| -2.84 | -12.92 | -249.52 | 2.84 | | | | | | | |
| | 17 | -5.23 | 360.74 | -2.47 | -11.54 | -319.43 | 2.47 | 18 | -4.30 | 305.06 |
| -2.05 | -9.67 | -270.64 | 2.05 | | | | | | | |
| | 19 | -6.47 | 333.71 | -2.71 | -11.99 | -292.40 | 2.71 | 20 | -5.54 | 278.03 |
| -2.30 | -10.11 | -243.60 | 2.30 | | | | | | | |

Calculation book

Oil Depot Repair Shop

| | | | | | | | | | | |
|--------|--------|---------|--------|--------|--------|---------|--------|----|---------|--------|
| | 21 | -4.41 | 354.82 | -1.93 | -8.73 | -313.51 | 1.93 | 22 | -3.48 | 299.14 |
| -1.52 | -6.86 | -264.71 | 1.52 | | | | | | | |
| | 23 | -7.29 | 339.63 | -3.25 | -14.80 | -298.32 | 3.25 | 24 | -6.36 | 283.95 |
| -2.84 | -12.92 | -249.52 | 2.84 | | | | | | | |
| | 25 | -5.23 | 360.74 | -2.47 | -11.54 | -319.43 | 2.47 | 26 | -4.30 | 305.06 |
| -2.05 | -9.67 | -270.64 | 2.05 | | | | | | | |
| | 27 | -6.47 | 333.71 | -2.71 | -11.99 | -292.40 | 2.71 | 28 | -5.54 | 278.03 |
| -2.30 | -10.11 | -243.60 | 2.30 | | | | | | | |
| | 29 | 112.64 | 360.29 | 26.67 | 68.71 | -318.98 | -26.67 | 30 | 113.47 | 302.87 |
| 27.04 | 70.37 | -268.45 | -27.04 | | | | | | | |
| | 31 | -124.08 | 321.13 | -31.73 | -91.71 | -279.82 | 31.73 | 32 | -123.00 | 264.99 |
| -31.26 | -89.54 | -230.56 | 31.26 | | | | | | | |
| | 33 | 112.23 | 363.28 | 26.40 | 67.30 | -321.97 | -26.40 | 34 | 113.13 | 305.36 |

26.81 69.19 -270.93 -26.81
 35 -123.67 318.15 -31.47 -90.30 -276.84 31.47 36 -122.66 262.50
 -31.03 -88.36 -228.07 31.03

NO 32 As= 599. M= -123.00 N= 264.99 NO 32 As=
 407. M= -89.54 N= -230.56
 GG= 608.

Concrete COLUMN 5(SECTION TYPE= 1, ANG= 0, Lx= 6.80, Ly= 6.80)
 Section property: B= 240, H= 240

| NUMBER | | M | N | V | M | N | V | NUMBER | | |
|--------|-------|--------|-------|-------|-------|--------|-------|--------|-------|-------|
| M | N | V | M | N | V | N | V | M | N | |
| 0.00 | 1 | 0.01 | 43.89 | 0.00 | 0.02 | -32.14 | 0.00 | 2 | 0.01 | 36.57 |
| 0.00 | 0.02 | -26.78 | 0.00 | | | | | | | |
| 0.00 | 3 | 0.01 | 43.89 | 0.00 | 0.02 | -32.14 | 0.00 | 4 | 0.01 | 36.57 |
| 0.00 | 0.02 | -26.78 | 0.00 | | | | | | | |
| 0.00 | 5 | 0.01 | 47.77 | 0.00 | 0.02 | -36.02 | 0.00 | 6 | 0.01 | 40.45 |
| 0.00 | 0.02 | -30.66 | 0.00 | | | | | | | |
| 0.00 | 7 | 0.01 | 43.60 | 0.00 | 0.02 | -31.85 | 0.00 | 8 | 0.01 | 36.28 |
| 0.00 | 0.02 | -26.49 | 0.00 | | | | | | | |
| 0.00 | 9 | 0.01 | 47.77 | 0.00 | 0.02 | -36.02 | 0.00 | 10 | 0.01 | 40.45 |
| 0.00 | 0.02 | -30.66 | 0.00 | | | | | | | |
| 0.00 | 11 | 0.01 | 43.60 | 0.00 | 0.02 | -31.85 | 0.00 | 12 | 0.01 | 36.28 |
| 0.00 | 0.02 | -26.49 | 0.00 | | | | | | | |
| 0.00 | 13 | 0.01 | 47.19 | 0.00 | 0.02 | -35.43 | 0.00 | 14 | 0.01 | 39.87 |
| 0.00 | 0.02 | -30.08 | 0.00 | | | | | | | |
| 0.00 | 15 | 0.01 | 43.64 | 0.00 | 0.02 | -31.89 | 0.00 | 16 | 0.01 | 36.33 |
| 0.00 | 0.02 | -26.53 | 0.00 | | | | | | | |
| 0.00 | 17 | 0.01 | 47.19 | 0.00 | 0.02 | -35.43 | 0.00 | 18 | 0.01 | 39.87 |
| 0.00 | 0.02 | -30.08 | 0.00 | | | | | | | |
| 0.00 | 19 | 0.01 | 43.64 | 0.00 | 0.02 | -31.89 | 0.00 | 20 | 0.01 | 36.33 |
| 0.00 | 0.02 | -26.53 | 0.00 | | | | | | | |
| 0.00 | 21 | 0.01 | 47.19 | 0.00 | 0.02 | -35.43 | 0.00 | 22 | 0.01 | 39.87 |
| 0.00 | 0.02 | -30.08 | 0.00 | | | | | | | |
| 0.00 | 23 | 0.01 | 43.64 | 0.00 | 0.02 | -31.89 | 0.00 | 24 | 0.01 | 36.33 |
| 0.00 | 0.02 | -26.53 | 0.00 | | | | | | | |
| 0.00 | 25 | 0.01 | 47.19 | 0.00 | 0.02 | -35.43 | 0.00 | 26 | 0.01 | 39.87 |
| 0.00 | 0.02 | -30.08 | 0.00 | | | | | | | |
| 0.00 | 27 | 0.01 | 43.64 | 0.00 | 0.02 | -31.89 | 0.00 | 28 | 0.01 | 36.33 |
| 0.00 | 0.02 | -26.53 | 0.00 | | | | | | | |
| 0.01 | 29 | 0.05 | 51.68 | 0.02 | 0.06 | -39.93 | -0.02 | 30 | 0.04 | 44.09 |
| 0.01 | 0.06 | -34.30 | -0.01 | | | | | | | |
| -0.01 | 31 | -0.03 | 37.63 | -0.01 | -0.02 | -25.88 | 0.01 | 32 | -0.03 | 30.34 |
| -0.01 | -0.02 | -20.55 | 0.01 | | | | | | | |

| Calculation | book | Oil Depot | Repair | Shop | | | | | | |
|-------------|-------|-----------|-----------|----------|-------|--------|-------|----|-------|-------|
| 0.01 | 33 | 0.05 | 51.68 | 0.02 | 0.06 | -39.93 | -0.02 | 34 | 0.04 | 44.09 |
| 0.01 | 0.06 | -34.30 | -0.01 | | | | | | | |
| -0.01 | 35 | -0.03 | 37.63 | -0.01 | -0.02 | -25.88 | 0.01 | 36 | -0.03 | 30.34 |
| -0.01 | -0.02 | -20.55 | 0.01 | | | | | | | |
| 20. | NO 5 | As= 26. | M= 0.01 | N= 47.77 | NO 5 | As= | | | | |
| | | M= 0.02 | N= -36.02 | | | | | | | |

GG= 173.

Concrete BEAM 1(SECTION TYPE= 1 ANG= 0, L= 4.50)
 Section property: B= 200, H= 400
 BOTTOM

| SECTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9 | 10 | 11 | 12 | 13 | | | | | |
| M= | -0.02 | -14.60 | -28.05 | -39.43 | -47.87 | -52.49 | -52.42 | -47.10 | -37.09 |
| -23.27 | -9.24 | 0.00 | 0.00 | | | | | | |
| As(1)= | 200. | 119. | 230. | 324. | 390. | 415. | 391. | 329. | 256. |
| 158. | 62. | 0. | 200. | | | | | | |
| As(2)= | 200. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 0. | 0. | 0. | 200. | | | | | | |
| TOP | | | | | | | | | |
| SECTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 9 | 10 | 11 | 12 | 13 | | | | | |
| M= | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4.10 | 19.27 | 39.56 | 62.10 | 88.14 | | | | | |
| As(1)= | 200. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 27. |
| 130. | 274. | 442. | 651. | | | | | | |
| As(2)= | 200. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 0. | 0. | 0. | 651. | | | | | | |
| VI= | 39.93 | NO 13 | Vr= | 66.71 | NO 15 | Asv/s= | 0.24 | As(3)= | 200. |
| Umaxb= | 0.005 | Umaxt= | 0.008 | | | | | | |

Concrete BEAM 2(SECTION TYPE= 1 ANG= 0, L= 4.50)
 Section property: B= 200, H= 400
 BOTTOM

| SECTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9 | 10 | 11 | 12 | 13 | | | | | |
| M= | -12.71 | -17.94 | -23.73 | -28.03 | -31.59 | -31.33 | -26.55 | -27.07 | -29.04 |
| -27.38 | -24.24 | -20.22 | -15.65 | | | | | | |
| As(1)= | 200. | 121. | 161. | 192. | 217. | 215. | 244. | 223. | 199. |
| 187. | 165. | 137. | 200. | | | | | | |
| As(2)= | 200. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 0. | 0. | 0. | 200. | | | | | | |
| TOP | | | | | | | | | |
| SECTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 9 | 10 | 11 | 12 | 13 | | | | | |
| M= | 100.21 | 72.87 | 48.55 | 26.26 | 8.62 | 0.00 | 0.00 | 0.00 | |
| 1.32 | 18.27 | 39.03 | 62.74 | 88.16 | | | | | |
| As(1)= | 754. | 527. | 340. | 179. | 58. | 0. | 0. | 0. | 9. |
| 124. | 270. | 447. | 651. | | | | | | |
| As(2)= | 829. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 0. | 0. | 0. | 651. | | | | | | |
| VI= | 71.06 | NO 13 | Vr= | 67.45 | NO 15 | Asv/s= | 0.24 | As(3)= | 200. |
| Umaxb= | 0.003 | Umaxt= | 0.009 | | | | | | |

Concrete BEAM 3(SECTION TYPE= 1 ANG= 0, L= 4.50)

Calculation book Oil Depot Repair Shop

Section property: B= 200, H= 400
 BOTTOM

| SECTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9 | 10 | 11 | 12 | 13 | | | | | |
| M= | -15.65 | -20.22 | -24.24 | -27.38 | -29.04 | -27.07 | -26.55 | -31.33 | -31.59 |
| -28.03 | -23.73 | -17.94 | -12.71 | | | | | | |
| As(1)= | 200. | 137. | 165. | 187. | 199. | 223. | 244. | 215. | 217. |
| 192. | 161. | 121. | 200. | | | | | | |
| As(2)= | 200. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 0. | 0. | 200. | | | | | | | |
| TOP | | | | | | | | | |
| SECTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 9 | 10 | 11 | 12 | 13 | | | | | |
| M= | 88.16 | 62.74 | 39.03 | 18.27 | 1.32 | 0.00 | 0.00 | 0.00 | |
| 8.62 | 26.26 | 48.55 | 72.87 | 100.21 | | | | | |
| As(1)= | 651. | 447. | 270. | 124. | 9. | 0. | 0. | 0. | 58. |
| 179. | 340. | 527. | 754. | | | | | | |
| As(2)= | 651. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 0. | 0. | 0. | 829. | | | | | | |
| VI= | 67.45 | NO 13 | Vr= | 71.06 | NO 15 | Asv/s= | 0.24 | As(3)= | 200. |
| Umaxb= | 0.003 | Umaxt= | 0.009 | | | | | | |

Concrete BEAM 4(SECTION TYPE= 1 ANG= 0, L= 4.50)

Section property: B= 200, H= 400

BOTTOM

| SECTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|---------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| 9 | 10 | 11 | 12 | 13 | | | | | |
| M= | 0.00 | 0.00 | -9.24 | -23.27 | -37.09 | -47.10 | -52.42 | -52.49 | -47.87 |
| -39.43 | -28.05 | -14.60 | -0.02 | | | | | | |
| As(1)= | 200. | 0. | 62. | 158. | 256. | 329. | 391. | 415. | 390. |
| 324. | 230. | 119. | 200 | | | | | | |
| As(2)= | 200. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 0. | 0. | 0. | 200. | | | | | | |
| TOP | | | | | | | | | |
| SECTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 9 | 10 | 11 | 12 | 13 | | | | | |
| M= | 88.14 | 62.10 | 39.56 | 19.27 | 4.10 | 0.00 | 0.00 | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.06 | | | | | | |
| As(1)= | 651. | 442. | 274. | 130. | 27. | 0. | 0. | 0. | 0. |
| 0. | 0. | 0. | 200. | | | | | | |
| As(2)= | 651. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| 0. | 0. | 0. | 200. | | | | | | |
| VI= | 66.71 | NO 13 | Vr= | 39.93 | NO 15 | Asv/s= | 0.24 | As(3)= | 200. |
| Umaxb= | 0.005 | Umaxt= | 0.008 | | | | | | |

COMPUTE END