

60° SKEW

| 2:1 SLOPE | | | | | | |
|-----------|-------|-------|-------|------|-----------------|---------------------|
| H | WL | hl | WS | hs | CONCRETE (C.Y.) | REINF. STEEL (LBS.) |
| 4 | 7.50 | 2.75 | 4.50 | 1.75 | 4.2 | 672 |
| 4.5 | 8.50 | 3.00 | 5.00 | 1.75 | 5.0 | 729 |
| 5 | 9.50 | 3.50 | 5.50 | 2.00 | 6.5 | 827 |
| 5.5 | 10.50 | 3.75 | 6.25 | 2.25 | 7.7 | 977 |
| 6 | 11.75 | 4.25 | 6.75 | 2.50 | 8.8 | 1,068 |
| 6.5 | 12.75 | 4.50 | 7.50 | 2.75 | 10.5 | 1,164 |
| 7 | 13.75 | 5.00 | 8.00 | 3.00 | 12.9 | 1,504 |
| 7.5 | 14.75 | 5.25 | 8.50 | 3.00 | 14.5 | 1,616 |
| 8 | 15.75 | 5.75 | 9.25 | 3.25 | 16.4 | 1,736 |
| 8.5 | 16.75 | 6.00 | 9.75 | 3.50 | 18.2 | 1,915 |
| 9 | 17.75 | 6.50 | 10.25 | 3.75 | 21.1 | 2,814 |
| 9.5 | 19.00 | 6.75 | 11.00 | 4.00 | 23.5 | 2,948 |
| 10 | 20.00 | 7.25 | 11.50 | 4.25 | 26.4 | 3,266 |
| 10.5 | 21.00 | 7.50 | 12.25 | 4.50 | 28.9 | 3,423 |
| 11 | 22.00 | 7.75 | 12.75 | 4.50 | 32.2 | 3,846 |
| 11.5 | 23.00 | 8.25 | 13.25 | 4.75 | 36.3 | 4,672 |
| 12 | 24.00 | 8.50 | 14.00 | 5.00 | 39.8 | 5,017 |
| 12.5 | 25.00 | 9.00 | 14.50 | 5.25 | 44.7 | 5,243 |
| 13 | 26.25 | 9.25 | 15.25 | 5.50 | 50.2 | 6,224 |
| 13.5 | 27.25 | 9.75 | 15.75 | 5.75 | 53.9 | 6,749 |
| 14 | 28.25 | 10.00 | 16.25 | 5.75 | 57.3 | 6,986 |
| 14.5 | 29.25 | 10.50 | 17.00 | 6.00 | 61.5 | 7,404 |
| 15 | 30.25 | 10.75 | 17.50 | 6.25 | 68.9 | 7,978 |
| 15.5 | 31.25 | 11.25 | 18.25 | 6.50 | 73.6 | 8,881 |
| 16 | 32.25 | 11.50 | 18.75 | 6.75 | 80.6 | 9,485 |
| 16.5 | 33.50 | 12.00 | 19.25 | 7.00 | 87.6 | 11,203 |
| 17 | 34.50 | 12.25 | 20.00 | 7.25 | 94.7 | 12,324 |
| 17.5 | 35.50 | 12.50 | 20.50 | 7.25 | 99.4 | 12,224 |
| 18 | 36.50 | 13.00 | 21.25 | 7.50 | 108.6 | 12,888 |
| 18.5 | 37.50 | 13.25 | 21.75 | 7.75 | 112.0 | 13,152 |
| 19 | 38.50 | 13.75 | 22.25 | 8.00 | 125.6 | 14,488 |
| 19.5 | 39.50 | 14.00 | 23.00 | 8.25 | 131.9 | 16,455 |
| 20 | 40.75 | 14.50 | 23.50 | 8.50 | 139.0 | 17,052 |
| 20.5 | 41.75 | 14.75 | 24.00 | 8.50 | 145.0 | 17,579 |
| 21 | 42.75 | 15.25 | 24.75 | 8.75 | 164.3 | 19,541 |

| 3:1 SLOPE | | | | | | |
|-----------|-------|-------|-------|-------|-----------------|---------------------|
| H | WL | hl | WS | hs | CONCRETE (C.Y.) | REINF. STEEL (LBS.) |
| 4 | 8.50 | 3.00 | 5.50 | 2.00 | 5.0 | 712 |
| 4.5 | 9.75 | 3.50 | 6.25 | 2.25 | 6.2 | 782 |
| 5 | 10.75 | 4.00 | 7.00 | 2.50 | 7.9 | 894 |
| 5.5 | 12.00 | 4.25 | 7.75 | 2.75 | 9.4 | 1,064 |
| 6 | 13.00 | 4.75 | 8.50 | 3.00 | 10.9 | 1,162 |
| 6.5 | 14.25 | 5.00 | 9.25 | 3.50 | 13.0 | 1,261 |
| 7 | 15.50 | 5.50 | 10.00 | 3.75 | 15.6 | 1,622 |
| 7.5 | 16.50 | 6.00 | 10.75 | 4.00 | 17.6 | 1,750 |
| 8 | 17.75 | 6.25 | 11.50 | 4.25 | 19.8 | 1,885 |
| 8.5 | 18.75 | 6.75 | 12.25 | 4.50 | 22.1 | 2,073 |
| 9 | 20.00 | 7.25 | 13.00 | 4.75 | 26.5 | 3,200 |
| 9.5 | 21.00 | 7.50 | 13.75 | 5.00 | 29.0 | 3,319 |
| 10 | 22.25 | 8.00 | 14.50 | 5.25 | 32.1 | 3,644 |
| 10.5 | 23.25 | 8.25 | 15.25 | 5.50 | 34.9 | 3,789 |
| 11 | 24.50 | 8.75 | 16.00 | 5.75 | 39.4 | 4,257 |
| 11.5 | 25.50 | 9.25 | 16.75 | 6.00 | 45.0 | 5,270 |
| 12 | 26.75 | 9.50 | 17.50 | 6.25 | 48.7 | 5,587 |
| 12.5 | 28.00 | 10.00 | 18.25 | 6.50 | 52.9 | 5,802 |
| 13 | 29.00 | 10.25 | 19.00 | 6.75 | 61.0 | 6,799 |
| 13.5 | 30.25 | 10.75 | 19.75 | 7.00 | 65.0 | 7,462 |
| 14 | 31.25 | 11.25 | 20.50 | 7.25 | 71.9 | 7,852 |
| 14.5 | 32.50 | 11.50 | 21.25 | 7.50 | 76.8 | 8,307 |
| 15 | 33.50 | 12.00 | 22.00 | 7.75 | 86.3 | 8,969 |
| 15.5 | 34.75 | 12.25 | 22.75 | 8.00 | 91.6 | 10,054 |
| 16 | 35.75 | 12.75 | 23.50 | 8.25 | 97.1 | 10,553 |
| 16.5 | 37.00 | 13.25 | 24.00 | 8.50 | 106.1 | 12,649 |
| 17 | 38.00 | 13.50 | 24.75 | 8.75 | 115.3 | 13,785 |
| 17.5 | 39.25 | 14.00 | 25.50 | 9.25 | 123.4 | 13,784 |
| 18 | 40.50 | 14.25 | 26.25 | 9.50 | 130.1 | 14,292 |
| 18.5 | 41.50 | 14.75 | 27.00 | 9.75 | 136.9 | 14,626 |
| 19 | 42.75 | 15.25 | 27.75 | 10.00 | 155.6 | 16,405 |
| 19.5 | 43.75 | 15.50 | 28.50 | 10.25 | 162.7 | 18,513 |
| 20 | 45.00 | 16.00 | 29.25 | 10.50 | 171.0 | 19,179 |
| 20.5 | 46.00 | 16.25 | 30.00 | 10.75 | 178.5 | 19,814 |
| 21 | 47.25 | 16.75 | 30.75 | 11.00 | 202.3 | 21,818 |

| 4:1 SLOPE | | | | | | |
|-----------|-------|-------|-------|------|-----------------|---------------------|
| H | WL | hl | WS | hs | CONCRETE (C.Y.) | REINF. STEEL (LBS.) |
| 4 | 9.25 | 3.25 | 6.50 | 2.25 | 5.7 | 745 |
| 4.5 | 10.25 | 3.75 | 7.25 | 2.75 | 7.0 | 807 |
| 5 | 11.50 | 4.25 | 8.25 | 3.00 | 8.5 | 909 |
| 5.5 | 12.75 | 4.50 | 9.00 | 3.25 | 10.5 | 1,117 |
| 6 | 14.00 | 5.00 | 9.75 | 3.50 | 12.7 | 1,246 |
| 6.5 | 15.25 | 5.50 | 10.75 | 3.75 | 14.7 | 1,340 |
| 7 | 16.25 | 5.75 | 11.50 | 4.25 | 17.3 | 1,690 |
| 7.5 | 17.50 | 6.25 | 12.25 | 4.50 | 19.6 | 1,824 |
| 8 | 18.75 | 6.75 | 13.25 | 4.75 | 22.2 | 1,974 |
| 8.5 | 20.00 | 7.25 | 14.00 | 5.00 | 25.6 | 2,226 |
| 9 | 21.25 | 7.50 | 15.00 | 5.25 | 29.5 | 3,395 |
| 9.5 | 22.25 | 8.00 | 15.75 | 5.75 | 32.5 | 3,517 |
| 10 | 23.50 | 8.50 | 16.50 | 6.00 | 35.7 | 3,833 |
| 10.5 | 24.75 | 8.75 | 17.50 | 6.25 | 39.1 | 4,051 |
| 11 | 26.00 | 9.25 | 18.25 | 6.50 | 44.7 | 4,575 |
| 11.5 | 27.00 | 9.75 | 19.00 | 6.75 | 49.9 | 5,566 |
| 12 | 28.25 | 10.00 | 20.00 | 7.25 | 54.8 | 5,962 |
| 12.5 | 29.50 | 10.50 | 20.75 | 7.50 | 56.1 | 6,013 |
| 13 | 30.75 | 11.00 | 21.50 | 7.75 | 69.6 | 7,335 |
| 13.5 | 32.00 | 11.25 | 22.50 | 8.00 | 74.6 | 8,000 |
| 14 | 33.00 | 11.75 | 23.25 | 8.25 | 79.5 | 8,311 |
| 14.5 | 34.25 | 12.25 | 24.25 | 8.50 | 85.2 | 8,812 |
| 15 | 35.50 | 12.50 | 25.00 | 9.00 | 96.5 | 9,592 |

| 6:1 SLOPE | | | | | | |
|-----------|-------|------|-------|------|-----------------|---------------------|
| H | WL | hl | WS | hs | CONCRETE (C.Y.) | REINF. STEEL (LBS.) |
| 4 | 9.75 | 3.50 | 7.50 | 2.75 | 6.5 | 781 |
| 4.5 | 11.00 | 4.00 | 8.50 | 3.00 | 7.9 | 856 |
| 5 | 12.25 | 4.50 | 9.50 | 3.50 | 10.2 | 979 |
| 5.5 | 13.75 | 5.00 | 10.50 | 3.75 | 12.1 | 1,183 |
| 6 | 15.00 | 5.25 | 11.50 | 4.25 | 14.5 | 1,317 |
| 6.5 | 16.25 | 5.75 | 12.50 | 4.50 | 16.7 | 1,413 |
| 7 | 17.50 | 6.25 | 13.50 | 4.75 | 19.8 | 1,811 |

45° SKEW

| 2:1 SLOPE | | | | | | |
|-----------|-------|-------|-------|------|-----------------|---------------------|
| H | WL | hl | WS | hs | CONCRETE (C.Y.) | REINF. STEEL (LBS.) |
| 4 | 9.75 | 2.50 | 4.50 | 1.75 | 4.9 | 720 |
| 4.5 | 11.00 | 2.75 | 5.00 | 1.75 | 5.9 | 782 |
| 5 | 12.25 | 3.25 | 5.50 | 2.00 | 7.6 | 886 |
| 5.5 | 13.75 | 3.50 | 6.25 | 2.25 | 9.1 | 1,067 |
| 6 | 15.00 | 3.75 | 6.75 | 2.50 | 10.5 | 1,173 |
| 6.5 | 16.25 | 4.25 | 7.25 | 2.75 | 12.2 | 1,242 |
| 7 | 17.75 | 4.50 | 8.00 | 3.00 | 14.7 | 1,614 |
| 7.5 | 19.00 | 4.75 | 8.50 | 3.00 | 16.4 | 1,731 |
| 8 | 20.25 | 5.25 | 9.00 | 3.25 | 19.1 | 1,878 |
| 8.5 | 21.50 | 5.50 | 9.75 | 3.50 | 21.3 | 2,090 |
| 9 | 23.00 | 5.75 | 10.25 | 3.75 | 24.6 | 3,137 |
| 9.5 | 24.25 | 6.25 | 10.75 | 4.00 | 27.3 | 3,253 |
| 10 | 25.50 | 6.50 | 11.50 | 4.00 | 29.9 | 3,573 |
| 10.5 | 26.75 | 6.75 | 12.00 | 4.25 | 32.6 | 3,756 |
| 11 | 28.25 | 7.25 | 12.50 | 4.50 | 37.7 | 4,237 |
| 11.5 | 29.50 | 7.50 | 13.25 | 4.75 | 42.4 | 5,191 |
| 12 | 30.75 | 7.75 | 13.75 | 5.00 | 46.1 | 5,566 |
| 12.5 | 32.25 | 8.25 | 14.25 | 5.25 | 50.2 | 5,802 |
| 13 | 33.50 | 8.50 | 15.00 | 5.25 | 57.0 | 6,753 |
| 13.5 | 34.75 | 8.75 | 15.50 | 5.50 | 60.9 | 7,336 |
| 14 | 36.00 | 9.00 | 16.00 | 5.75 | 66.2 | 7,741 |
| 14.5 | 37.50 | 9.50 | 16.75 | 6.00 | 71.5 | 8,221 |
| 15 | 38.75 | 9.75 | 17.25 | 6.25 | 80.1 | 8,868 |
| 15.5 | 40.00 | 10.00 | 17.75 | 6.50 | 84.8 | 9,888 |
| 16 | 41.25 | 10.50 | 18.50 | 6.50 | 90.3 | 10,387 |
| 16.5 | 42.75 | 10.75 | 19.00 | 6.75 | 95.9 | 12,228 |
| 17 | 44.00 | 11.00 | 19.75 | 7.00 | 109.5 | 13,789 |
| 17.5 | 45.25 | 11.50 | 20.25 | 7.25 | 115.7 | 13,669 |
| 18 | 46.75 | 11.75 | 20.75 | 7.50 | 122.1 | 14,206 |
| 18.5 | 48.00 | 12.00 | 21.50 | 7.75 | 128.6 | 14,503 |
| 19 | 49.25 | 12.50 | 22.00 | 7.75 | 141.7 | 15,966 |
| 19.5 | 50.50 | 12.75 | 22.50 | 8.00 | 148.4 | 18,028 |
| 20 | 52.00 | 13.00 | 23.25 | 8.25 | 161.3 | 19,025 |
| 20.5 | 53.25 | 13.50 | 23.75 | 8.50 | 169.1 | 19,598 |
| 21 | 54.50 | 13.75 | 24.25 | 8.75 | 189.1 | 21,559 |

| 4:1 SLOPE | | | | | | |
|-----------|-------|-------|-------|------|-----------------|---------------------|
| H | WL | hl | WS | hs | CONCRETE (C.Y.) | REINF. STEEL (LBS.) |
| 4 | 12.25 | 3.25 | 6.50 | 2.25 | 6.9 | 806 |
| 4.5 | 13.75 | 3.50 | 7.25 | 2.75 | 8.3 | 887 |
| 5 | 15.50 | 4.00 | 8.00 | 3.00 | 10.7 | 1,023 |
| 5.5 | 17.00 | 4.25 | 9.00 | 3.25 | 12.5 | 1,225 |
| 6 | 18.75 | 4.75 | 9.75 | 3.50 | 14.7 | 1,360 |
| 6.5 | 20.25 | 5.25 | 10.50 | 3.75 | 17.4 | 1,474 |
| 7 | 21.75 | 5.50 | 11.50 | 4.00 | 20.6 | 1,885 |
| 7.5 | 23.50 | 6.00 | 12.25 | 4.50 | 23.5 | 2,029 |
| 8 | 25.00 | 6.25 | 13.00 | 4.75 | 26.2 | 2,183 |
| 8.5 | 26.50 | 6.75 | 14.00 | 5.00 | 29.7 | 2,451 |
| 9 | 28.25 | 7.25 | 14.75 | 5.25 | 35.0 | 3,819 |
| 9.5 | 29.75 | 7.50 | 15.50 | 5.50 | 38.3 | 3,973 |
| 10 | 31.25 | 8.00 | 16.50 | 6.00 | 42.4 | 4,366 |
| 10.5 | 33.00 | 8.25 | 17.25 | 6.25 | 46.3 | 4,594 |
| 11 | 34.50 | 8.75 | 18.00 | 6.50 | 52.0 | 5,106 |
| 11.5 | 36.00 | 9.00 | 19.00 | 6.75 | 59.3 | 6,335 |
| 12 | 37.75 | 9.50 | 19.75 | 7.00 | 64.9 | 6,794 |
| 12.5 | 39.25 | 10.00 | 20.50 | 7.25 | 70.0 | 6,997 |
| 13 | 40.75 | 10.25 | 21.25 | 7.75 | 79.3 | 8,146 |
| 13.5 | 42.50 | 10.75 | 22.25 | 8.00 | 85.6 | 8,858 |
| 14 | 44.00 | 11.00 | 23.00 | 8.25 | 94.5 | 9,374 |
| 14.5 | 45.75 | 11.50 | 23.75 | 8.50 | 101.2 | 9,976 |
| 15 | 47.25 | 12.00 | 24.75 | 8.75 | 113.9 | 10,756 |

| 3:1 SLOPE | | | | | | |
|-----------|-------|------|--------|------|-----------------|---------------------|
| H | WL | hl | WS | hs | CONCRETE (C.Y.) | REINF. STEEL (LBS.) |
| 4 | 11.25 | 3.00 | 5.50 | 2.00 | 6.0 | 765 |
| 4.5 | 12.75 | 3.25 | 6.25 | 2.25 | 7.3 | 845 |
| 5 | 14.25 | 3.75 | 7.00 | 2.50 | 9.4 | 967 |
| 5.5 | 15.75 | 4.00 | 7.75</ | | | |