


QUANTITIES

| SKEW ANGLE DEGREE | FLARE ANGLE DEGREE | NOMINAL PIPE DIAMETER | SINGLE PIPE | | | | | |
|-------------------|--------------------|-----------------------|--------------------------------|------------|--------------------------------|------------|--------------------------------|------------|
| | | | TYPE 1 SLOPE AT 1.5:1 | | TYPE 2 SLOPE AT 2:1 | | TYPE 3 SLOPE AT 3:1 | |
| | | | CONC. VOLUME (m ³) | REINF. (m) | CONC. VOLUME (m ³) | REINF. (m) | CONC. VOLUME (m ³) | REINF. (m) |
| 15 | 30 | 1350 | 5.66 | 47.1 | 6.93 | 50.1 | 9.46 | 56.5 |
| | | 1500 | 6.85 | 51.2 | 8.42 | 54.7 | 11.56 | 61.8 |
| | | 1650 | 8.23 | 55.6 | 10.15 | 59.4 | 14.00 | 67.4 |
| | | 1800 | 9.82 | 60.0 | 12.15 | 64.2 | 16.83 | 73.0 |
| | | 1950 | 11.79 | 65.0 | 14.66 | 69.6 | 20.39 | 79.3 |
| | | 2100 | 14.00 | 70.0 | 17.46 | 75.0 | 24.39 | 85.6 |
| 30 | 30 | 1350 | 7.02 | 51.8 | 8.61 | 55.6 | 11.78 | 63.6 |
| | | 1500 | 8.53 | 56.4 | 10.50 | 60.7 | 14.43 | 69.6 |
| | | 1650 | 10.29 | 61.3 | 12.70 | 66.1 | 17.52 | 76.0 |
| | | 1800 | 12.31 | 66.1 | 15.24 | 71.4 | 21.10 | 82.3 |
| | | 1950 | 14.82 | 71.7 | 18.42 | 77.5 | 25.62 | 89.5 |
| | | 2100 | 17.65 | 77.2 | 22.00 | 83.6 | 30.72 | 96.7 |
| 45 | 20 | 1350 | 8.89 | 59.4 | 10.73 | 63.9 | 14.41 | 73.2 |
| | | 1500 | 10.82 | 64.7 | 13.10 | 69.7 | 17.66 | 80.1 |
| | | 1650 | 13.06 | 70.3 | 15.86 | 75.9 | 21.45 | 87.4 |
| | | 1800 | 15.63 | 75.8 | 19.04 | 82.0 | 25.85 | 94.7 |
| | | 1950 | 18.83 | 82.1 | 23.01 | 89.0 | 31.38 | 103.0 |
| | | 2100 | 22.42 | 88.4 | 27.48 | 95.9 | 37.60 | 111.3 |

NOTES :

1. REFER SD 1891 FOR CULVERT DETAILS.
2. ALL REINFORCEMENT BARS ARE 12 mm DIAMETER.
3. 10% ALLOWANCE HAS BEEN MADE FOR ON-SITE CUTTING AND SPLICING OF REINFORCEMENT

| | | | | | | | | | | | |
|--------|-------|------|--|--|--|---|------|----------------|-----------|-------------|-----------|
| E | | | | GENERAL NOTES / CROSS REFERENCES 1. THE QUANTITIES ARE PROVIDED AS A GUIDE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTORS AND USERS OF THIS DRAWING TO CHECK AND ENSURE THAT THE QUANTITIES ARE ACCURATE BEFORE THEY ARE USED. |  PRINCIPAL ROAD DESIGN ENGINEER'S DEPARTMENT | STANDARD DRAWING MASS CONCRETE WINGWALL QUANTITIES SKEW PIPE CULVERTS 1350 TO 2100 DIA. TYPES 1, 2 & 3 | | | | | |
| D | | | | | | APPROVED | DATE | SPEC. REF. No. | SHEET No. | DRAWING No. | AMENDMENT |
| C | | | | | | | | | | | |
| B | | | | | | | | | | | |
| A | | | | | | | | | | | |
| AMEND. | Appd. | Date | | AMENDMENTS | | | | | SD 1892 | | |