



**BORED PIER SCHEDULE
(CONSIDERED 0.6m UNDERMINING DEPTH)**

| | PIER Ø (mm) | | | | MIN. UBE SIZE |
|----------------------|----------------|------|------|------|---------------|
| | 300 | 450 | 600 | 900 | |
| RETAINING HEIGHT (m) | PIER DEPTH (m) | | | | |
| 0.6 | 1.90 | 1.60 | 1.43 | 1.25 | 125TFB |
| 0.8 | 2.26 | 1.86 | 1.64 | 1.41 | 125TFB |
| 1.0 | 2.67 | 2.16 | 1.89 | 1.59 | 150UB18 |

**BORED PIER SCHEDULE
(NO UNDERMINING ISSUE)**

| | PIER Ø (mm) | | | | MIN. UB SIZE |
|----------------------|----------------|------|------|------|--------------|
| | 300 | 450 | 600 | 900 | |
| RETAINING HEIGHT (m) | PIER DEPTH (m) | | | | |
| 0.6 | 1.02 | 0.76 | 0.62 | 0.47 | 125TFB |
| 0.8 | 1.37 | 1.01 | 0.82 | 0.62 | 125TFB |
| 1.0 | 1.79 | 1.30 | 1.05 | 0.78 | 125TFB |

NOTES:

1. SLEEPER CONCRETE MINIMUM GRADE N32
2. SOIL UNIT WEIGHT IS ASSUMED TO BE 18 k/m³, WITH ACTIVE EARTH PRESSURE COEFFICIENT K_a = 0.5
3. FOR SOILS AT 600mm BELOW BOTTOM OF RETAINING WALL, THE MINIMUM ALLOWABLE BEARING PRESSURE SHALL BE NO LESS THAN 100kPa, TO BE VERIFIED BY A COMPETENT GEOTECHNICAL ENGINEER
4. CAREFULLY PLACE BACKFILL MATERIALS BEHIND THE SLEEPERS, BACKFILL SHALL BE DONE USING HAND HELD EQUIPMENT ONLY
5. FRICTION BETWEEN SOIL AND RETAINING WALL IS IGNORED

CoA 691 CONCRETE SLEEPER RETAINING WALL

| REV | DESCRIPTION | DATE | <div>CONSTRUCTION STANDARD</div> <div>LANDSCAPE</div> <div>CONCRETE SLEEPER RETAINING WALL</div> | <div>CITY OF ADELAIDE</div> | |
|-----|----------------|-------|--|--|--------------|
| A | ORIGINAL ISSUE | 04/23 | | | SHEET NUMBER |
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