

TRENCH EARTH

DI - 0.15m
 $4.5m \times 1.5m = 6.8cm$

DI over 1.5m
 $4.5m \times 0.55m = 2.5cm \times 1.5 = 3.8cm$

CONCRETE
 From DI, 0-1.5m

$$\left[\left(\frac{1.5 \times 1.5}{2} \times 0.4 \right) + (1.5 \times 0.5) + \left(\frac{1.5 + 1.1}{2} \times 1.1 \right) + \left(\frac{1.1 + 0.6}{2} \times 1.3 \right) \right] \times 1.88 = 39.3cm$$

OVER 1.5m

$$\left[\left(\frac{0.0 \times 0.3}{2} \times 0.3 \right) + (0.3 \times 0.5) + \left(\frac{0.2 + 0.4}{2} \times 0.4 \right) + (0.4 \times 3.4) + \left(\frac{0.4 + 0.0}{2} \times 1.88 \times 1.5 \right) \right] = 9.1cm$$

STONE FILL EXC

$$\left[\left(\frac{1.0 \times 0.6}{2} \times 1.5 \right) + (0.6 \times 1.3) \right] \times 2.3 = 4.7cm$$

63.7cm

GRANULAR BACKFILL FOR STRUCTURES

CONCRETE
 $1.4m \times 1.88m (w) \times 0.88m (b) = 2.38cm$

DI
 $3.0m \times 1.9m = \frac{5.7cm}{29.5cm}$

EARTH BORROW

$11.8m (AVE LENGTH) \times 1.88m (w) \times 1.3m (FILL MEAS) = 28.8cm \times 1.15 = 33.1cm$

WRF SVS
 12-15-06 1-22-7
 To Bk ZA, Pg 78

