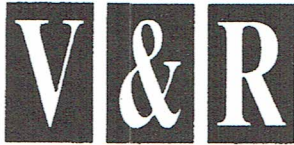


APPENDIX 3

TEMPORARY WORKS



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Portion
TEMP WORKS & SEQUENCE.

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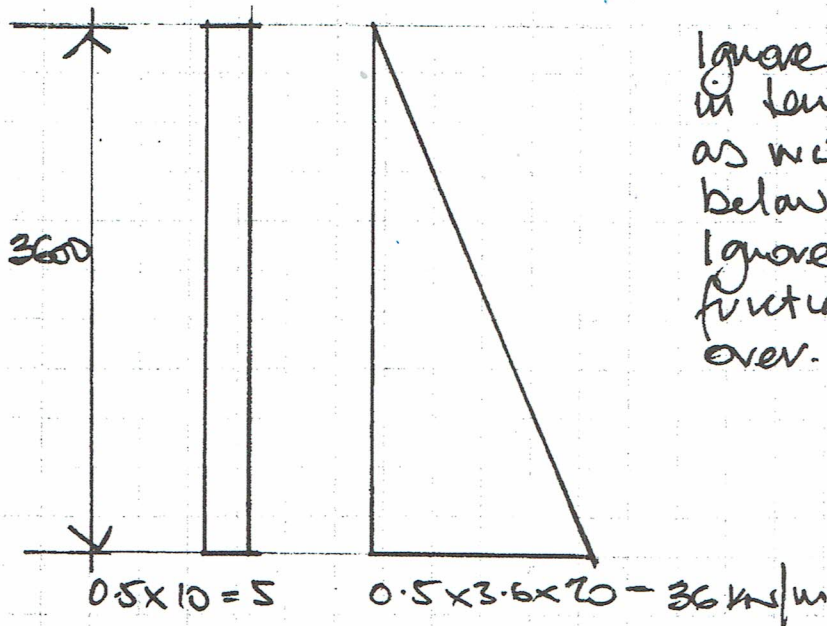
Sheet No. TWS1

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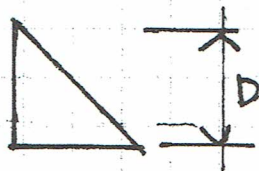
Checked by:

Take $k_0 = 0.50$ $\gamma = 20 \text{ kN/m}^3$ $\beta = 3.5$



Ignore hydrostatic pressure in temporary condition as water table will be below formation. Ignore benefit of base friction from wall load over.

$$\text{Total lateral load} = (5 \times 3.6) + (36 \times 3.6 / 2) = 82.8 \text{ kN/m}$$



$$3.5 \times 20 \times D^2 / 2 = 82.8 \text{ kN/m}$$

$$D = 1.53 \text{ m}$$

Insert props say 1.65 above formation.

props @ 2.50 c/c.

$$\text{Bm int} = \text{say } 82.8 \times 1.45 \times 2.5^2 / 9 = 86.4 \text{ kNm}$$

$$S_{\text{req}} = 86.4 / 0.250 = 345.6 \text{ cm}^3$$

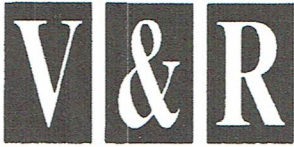
$$\underline{103 \text{ Ue46}} \quad S = 497 \text{ cm}^3$$

OK.

Deflection - (continuous)

$$\frac{82.8 \times 2500^3 \times 10^3}{384 \times 210 \times 10^3 \times 4567 \times 10^4} = 0.4 \text{ mm}$$

OK.



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Sheet No. TMS 2.

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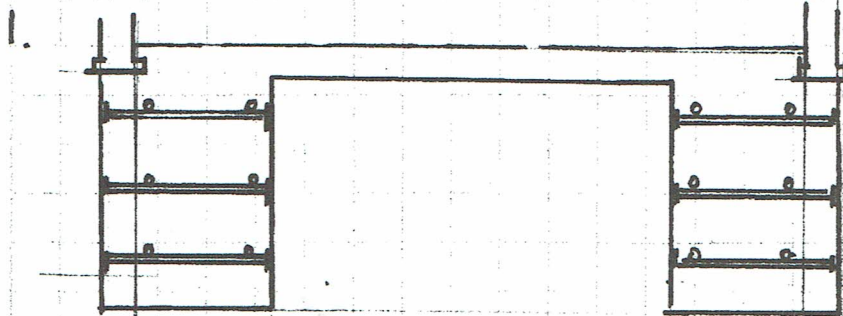
Date: JUNE 2018

Checked by:

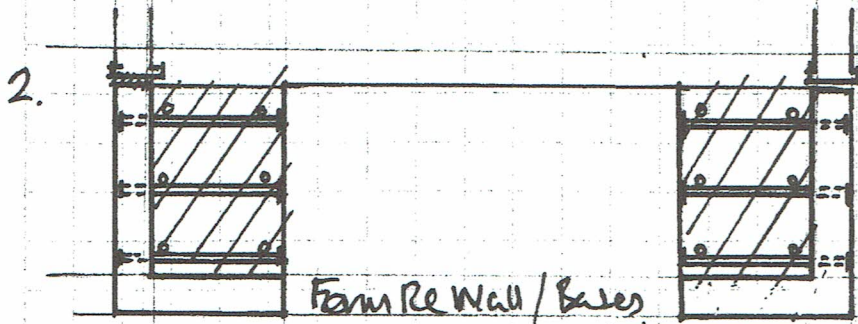
Props Max force = $86.4 \times 2.5 \times 1.45 = 313kN$
 203UC 60
 For 10.00 $P_x = 920kN$
 $P_y = 340kN$ OK.

Use 203UC 60 kg Props

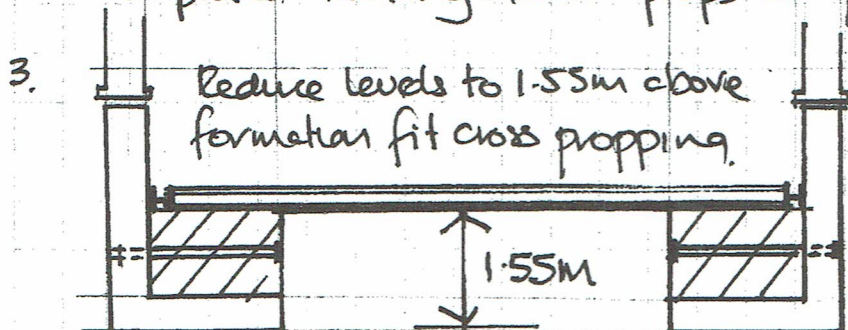
SEQUENCE

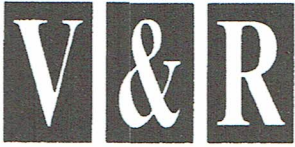


Excavate prop excavations across both ways



Backfill excavations as each pin location is completed leaving trench props in place.





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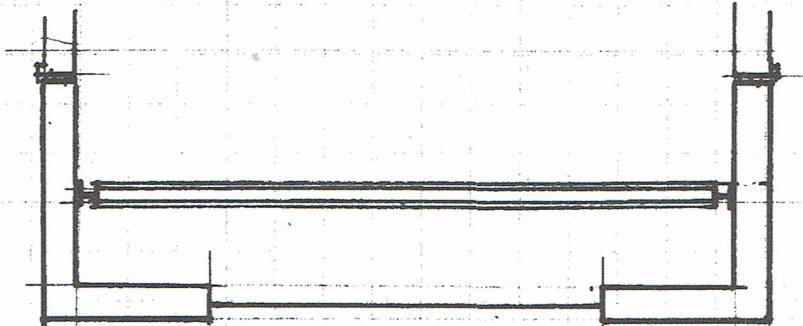
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Date: JUNE 2018

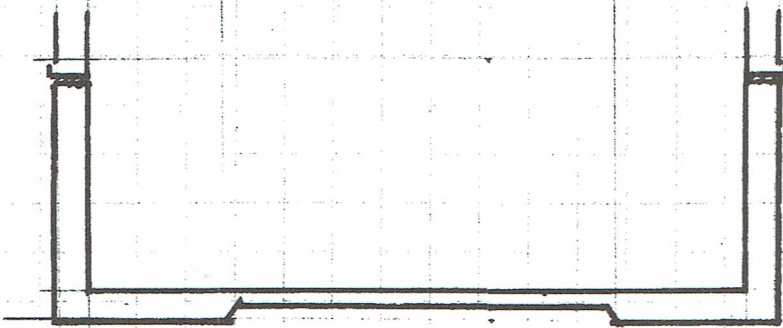
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4.

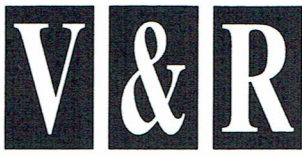


Reduce leads to formation fit drainage

5.



Construct slab, after curing remove cross propping



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