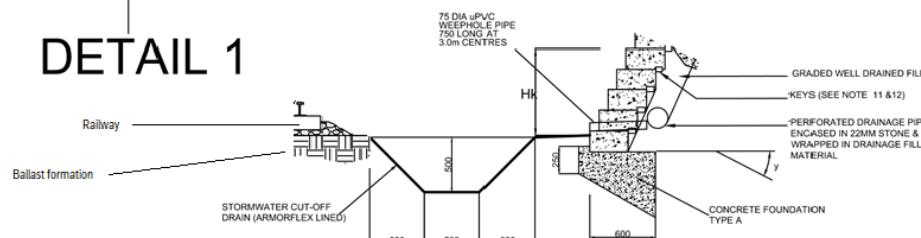


DETAIL 1



DETAIL 1

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TERRACE GRAVITY RETAINING WALL DETAILS			
BLOCKS	VALUE	WALL	WALL
BLOCK TYPE	Precast Retaining block	HEIGHT	(H)
OFF-SET	105mm	TILT ANGLE	(b)
WIDTH	425mm	BACK SLOPE	(i)
HEIGHT	Varies	HEIGHT WITH KEYS	(H _k)
KEYS	See Note 11 and 12	KEYLESS HEIGHT	(H ₀)
DRAINAGE LAYER WIDTH (c)	1000mm	SURCHARGE	(kN/m ²)
		BASE ANGLE	(y)
		CONSTRUCTED MASS	(kN/m ²)

NOTES

NOTES:

1. Precast concrete retaining blocks to be used.
Type of block to be specified.

2. Terrafirma blocks to be placed with off-set as shown and filled with well tamped approved soil or crushed gravel.

3. Infill soil (Backfill) retained to be granular, well drained and compacted in layers not exceeding 150mm at optimum moisture content

4. Geosynthetic reinforcement filter material to be installed along cut-face, draining towards perforated drainage pipe.

5. Geosynthetic reinforcement sheets to be clamped between blocks and be pulled taut prior to placement of backfill material

6. Stormwater cut-off drain to be constructed behind and along crest of wall, to prevent water to drain onto face of wall.

7. Foundation excavation to be inspected by the Engineer.

8. Existing services in front of proposed wall, running parallel to the proposed foundation, have to be re-excavated and the trench be backfilled with 6% cement stabilised fill compacted 90% mod AASHTO at optimum moisture content.

9. Excavation of trenches in front of wall not allowed once the retaining wall has been constructed.

10. Maximum superimposed load, surcharge, on retaining soil as indicated in the design table.

11. Concrete keys (Where required) to be class 1 mortar or 20MPa concrete or 19mm crushed stone or by lifting back the foundation a few degrees . (Base Angle "Y")

12. Concrete keys (Where required) to be installed as per precast concrete retaining blocks Design and Construction Manual of 1992 and 2009.