



NOTES:

1. Terraforce precast concrete retaining blocks to be used. Type of block to be specified.
2. Terraforce 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 drainage 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 excavations 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 to 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 retained soil as indicated in the design table.
11. Concrete keys (where required) to be class 1 mortar or 15 MPa concrete or 19mm crushed stone or by tilting back the foundation a few degrees. (Base Angle 'Y')
12. Concrete keys (where required) to be installed as per the Terraforce Design and Construction manuals of 1992 and 2009. (www.terraforce.com)
13. Terraforce retaining wall design software, Maxiforce, may be downloaded from www.maxiwall.com or use the basic Terraforce design tables from www.terraforce.com

SUBMISSION SHEET: TERRAFORCE GRAVITY RETAINING WALL DETAILS

FOUNDATION SOIL	VALUE	BLOCKS	VALUE	WALL	VALUE	FOUNDATION	VALUE
INT FRICTION ANGLE		BLOCK TYPE		HEIGHT (H)		CONCRETE (MPa)	
SOIL UNIT WEIGHT(kN/m ²)		OFF-SET (x)		TILT ANGLE (b)		l ₁ TOTAL WIDTH	
RETAINED SOIL (Native/ Insitu soils)		WIDTH (w)		BACK SLOPE (i)		l ₂ TOE WIDTH	
INT FRICTION ANGLE		HEIGHT (h)		HEIGHT WITH KEYS (H _k)		l ₃ HEEL WIDTH	
SOIL UNIT WEIGHT(kN/m ²)		KEYS PER m ²		KEYLESS HEIGHT (H ₀)		d ₁ KICKER HGHT	
INFILL SOIL (Geo reinforced soils)		DRAINAGE LAYER WIDTH (c)		SURCHARGE (kN/m ²)		d ₂ TOE HEIGHT	
INT FRICTION ANGLE				BASE ANGLE (y)		d ₃ HEEL WIDTH	
SOIL UNIT WEIGHT(kN/m ²)				CONSTRUCTED MASS (kg/m ²)		d ₄ FOUNDATION DEPTH	
FILL WIDTH (c)							

TITLE: TERRAFORCE RETAINING WALL DESIGN DETAILS	
CLIENT:	
PROJECT:	
DESIGNED BY:	DATE: