

**Retained Material:-**  
 Earth  
 AoR = 35 degrees  
 Maximum Density  
 18 kN/m<sup>3</sup> (1800 kgs/m<sup>3</sup>)  
 Maximum surcharge - 0kN/m<sup>2</sup>

**Important Note:-**  
 Earth in front of wall is used to help resist sliding and therefore must a minimum of 400mm deep and well compacted.

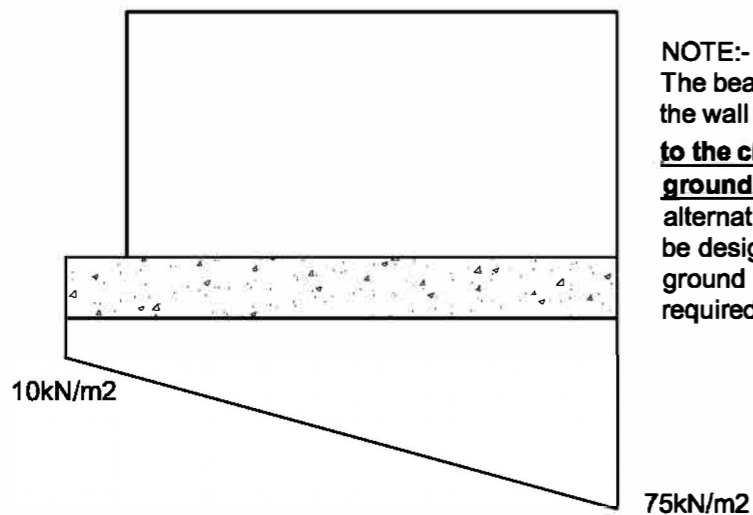
**Foundation slab**  
 200mm thick RC30 concrete slab  
 1 layer of A393 mesh placed centrally

General Notes

1. *Fill Material* – The fill material must be granular and free draining. Unless notified otherwise the material should not have a density greater than 18 kN/m<sup>3</sup> and an angle of repose of not less than 35 degrees. Excavated material is not to be used as backfill, unless suitably graded and complying with the above criteria. Material such as Clay is not to be used in any circumstance.
2. *Compaction* – The fill material should be compacted in 300 to 500mm layers.
3. *Load from the compacting vehicle* should not exceed 10 tonnes.
4. *The compacting vehicle* is not to approach within 300mm of the concrete blocks
5. *Under no circumstances* is the compacting vehicle to come into contact with the concrete blocks
6. *Drainage* – To avoid the build up of hydrostatic pressure, drainage to the back of the wall will be necessary .

**Wall Summary** (1:25)

**NOTE:-**  
 The bearing pressure beneath the wall is shown below. **It is up to the client to ensure the ground and slab is adequate**, alternatively a foundation may be designed to suit allowable ground bearing pressures if required.



**Bearing Pressures** (1:25)

**NOTES:-**

1. The contractor should take all necessary measurements on site.
2. All dimensions shown on this drawing are approximate and for structural calculation purposes only.
3. Dimensions on this drawing should not be used for fabrication purposes.
4. Do not scale this drawing.
5. This drawing should be read in conjunction with the calculations.

**IMPORTANT NOTE**

The existing slab and ground have not been investigated by CLP structures, the pressures exerted on the ground and slab are shown on this drawing, however **it is up to the client to satisfy himself that the existing ground and slab are adequate to support these loads.**

**IMPORTANT NOTE**

The wall has been designed to retain a specific material with a specific density and angle of repose. It is up to the client to ensure that the material retained on site does not exceed these designed parameters, failure to do so may result in the collapse of the wall.

Rev	Description	By	Date	Chk'd
Purpose of Issue	Rev	Date	Auth	



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**Client**  
 Elite Precast Concrete Ltd.

**Project**  
 17083 – Cliftonhall Yards Elite Legato Retaining Wall

**Title**  
 Wall Design Parameters and Limitations

Original Scale As noted	Drawn CEL Date July 19	Rev - Checked
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Drawing Number 753-02-01