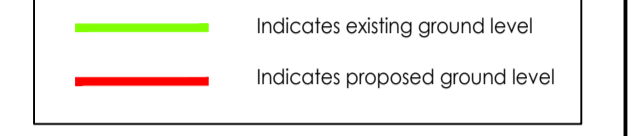


**General Notes**

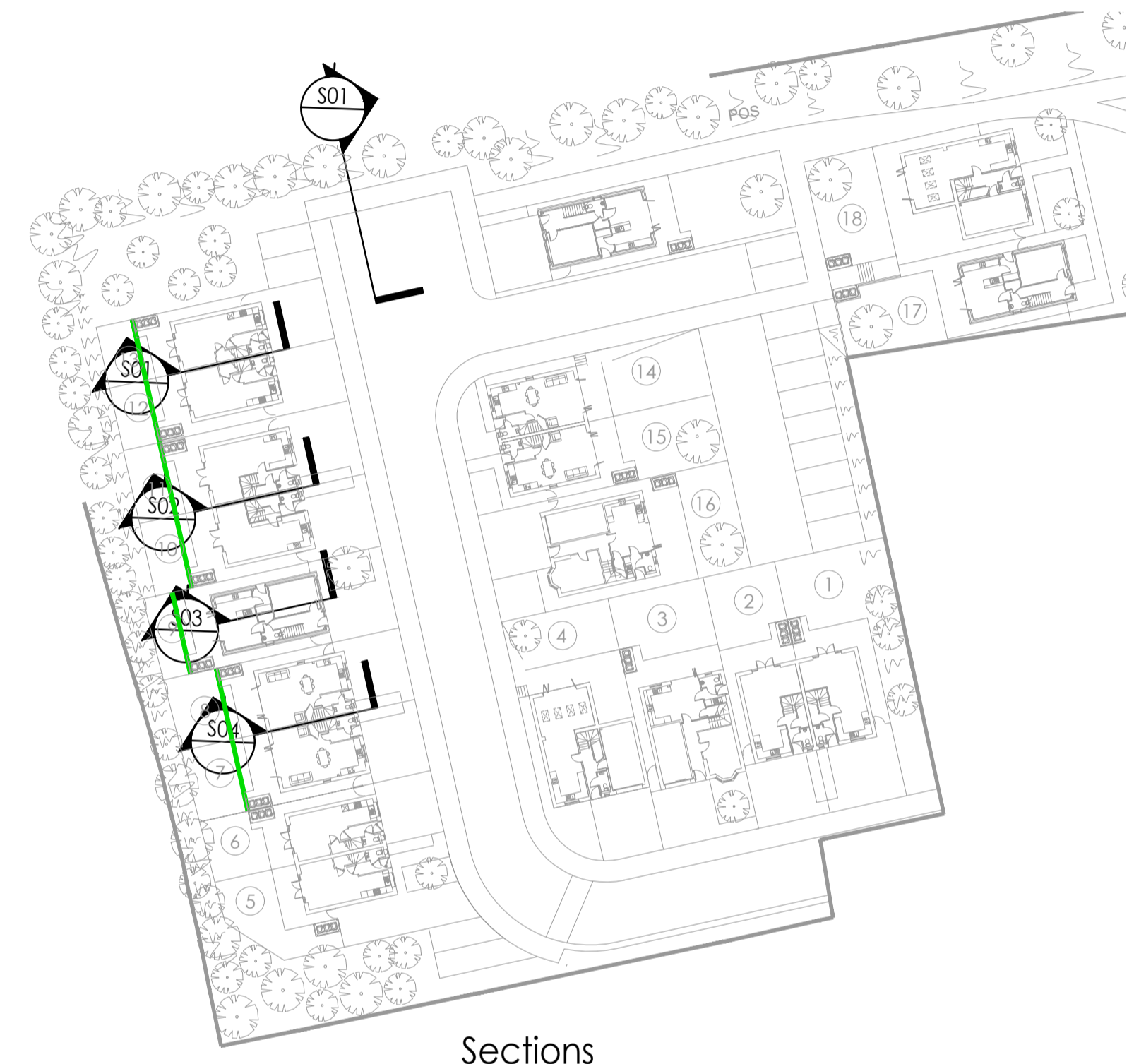
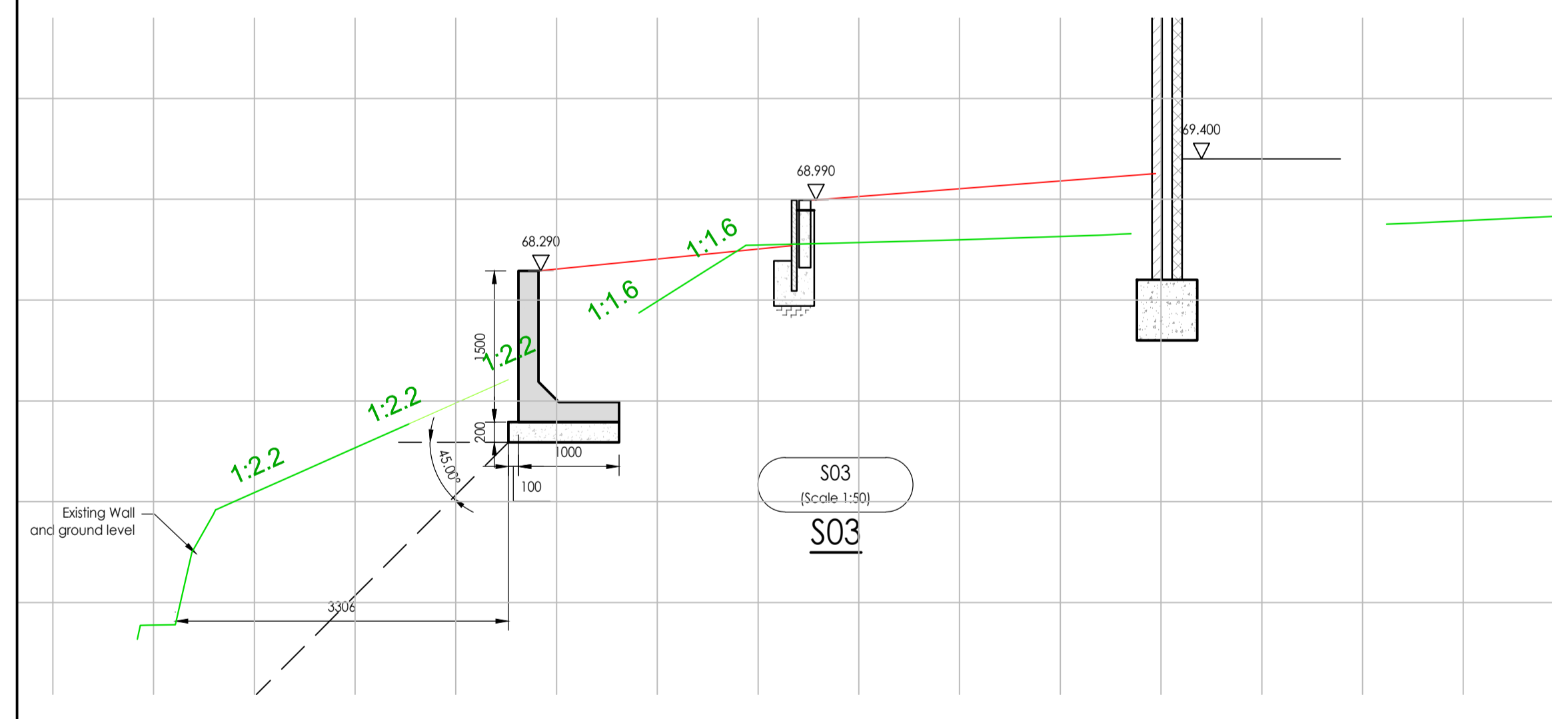
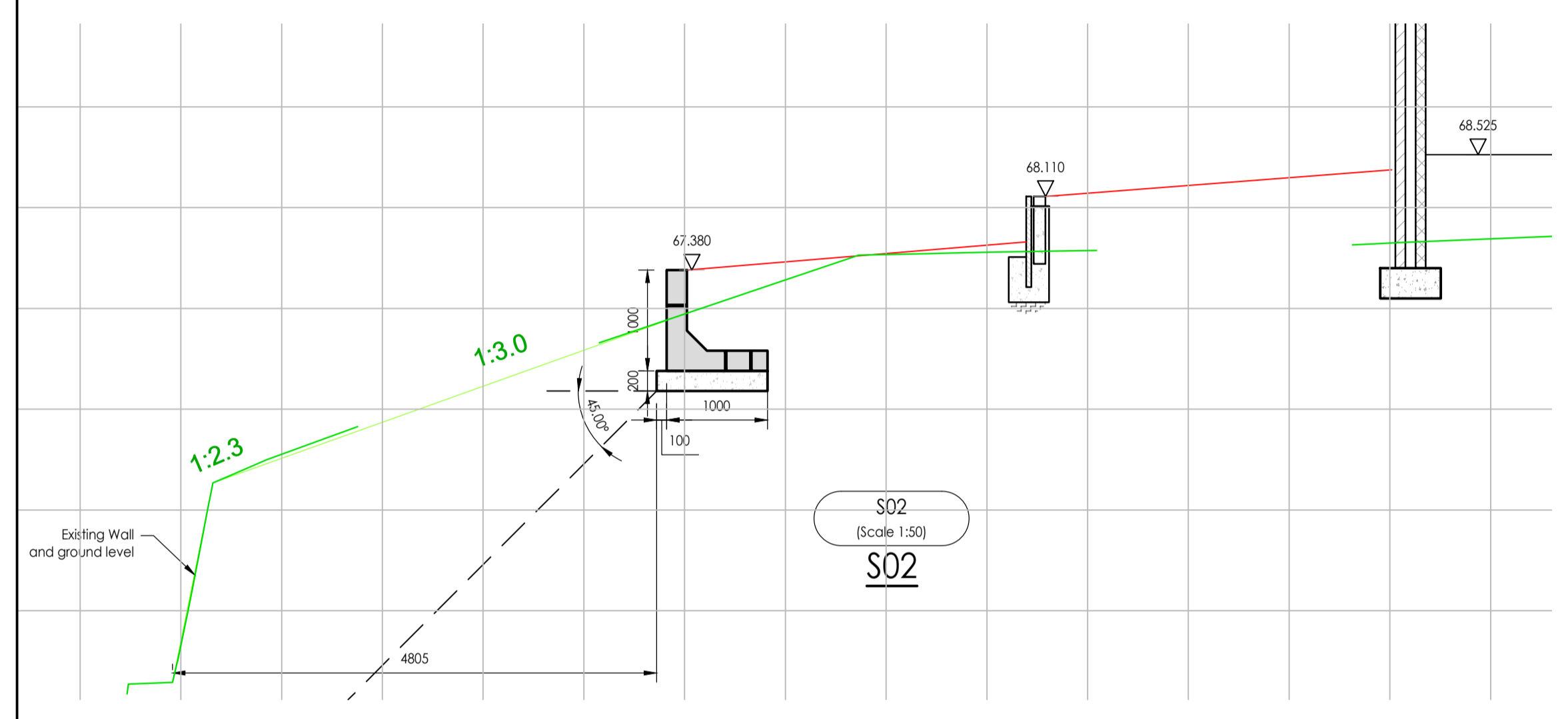
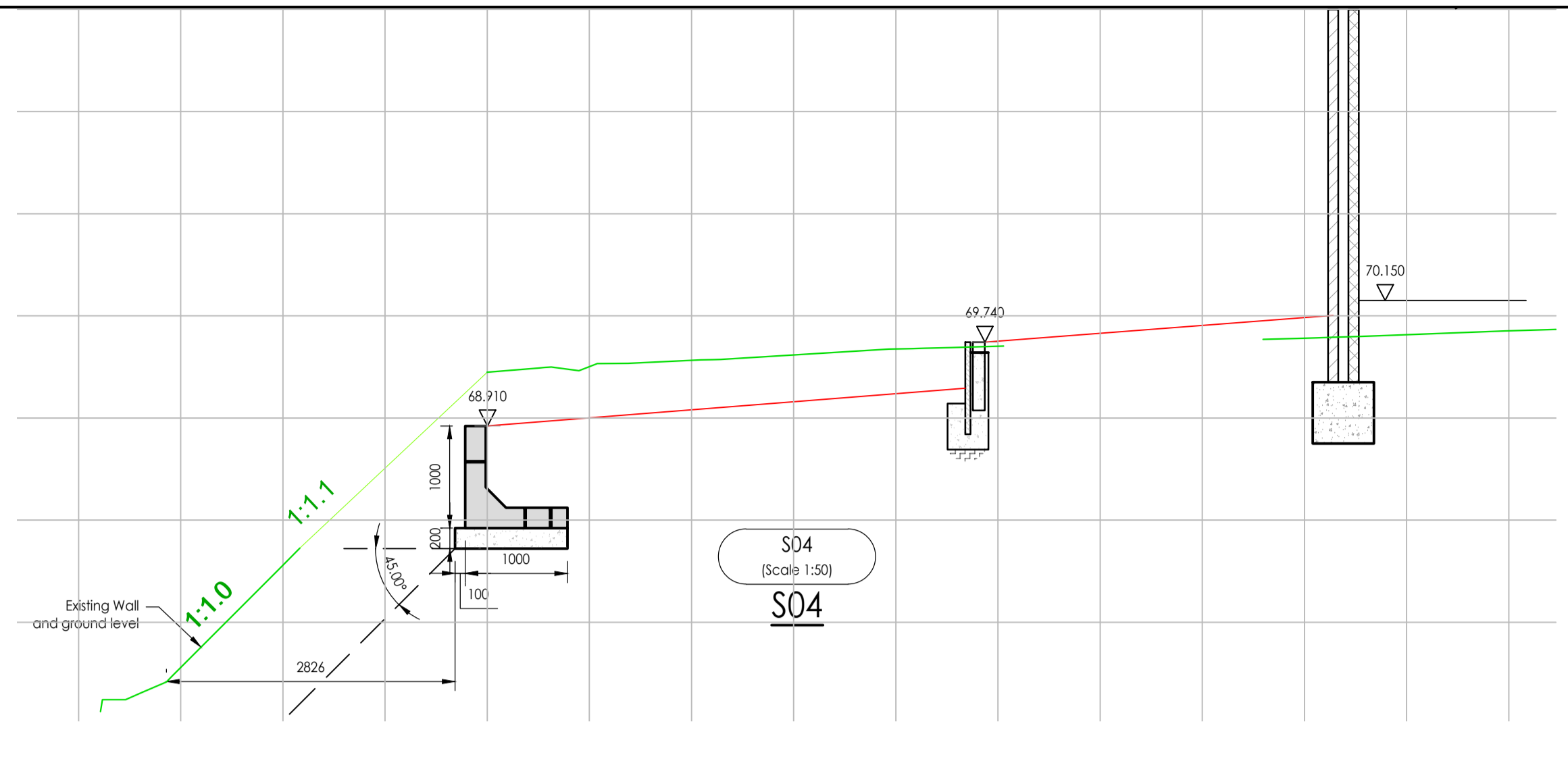
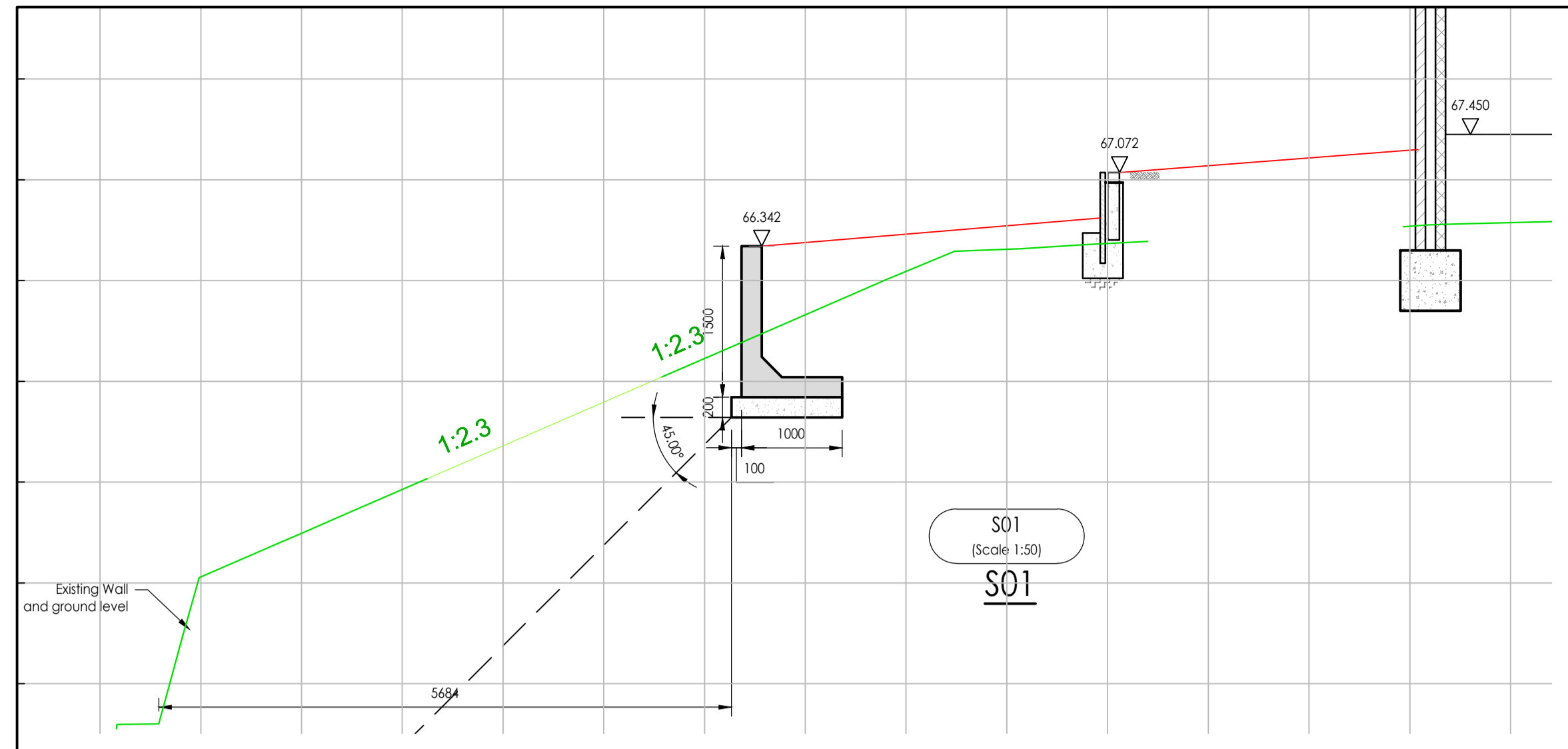
1. This document is Copyright of WB Engineers.
2. All dimensions to be checked on site prior to construction/fabrication.
3. Do not scale from this drawing.
4. Any discrepancies between drawings of different scales, and between drawings and specification where appropriate to be notified to WB Engineers for decision.
5. This drawing may only be used for The Client and location specified in the title block. It may not be copied or disclosed to any third party without the prior written consent of WB Engineers.
6. WB Engineers take no responsibility for construction works undertaken to drawings which are not marked with the status 'AS - Approved/Stage Complete'.
7. This document should be read in conjunction with associated models, specifications and related consultants documents.

**Legend**

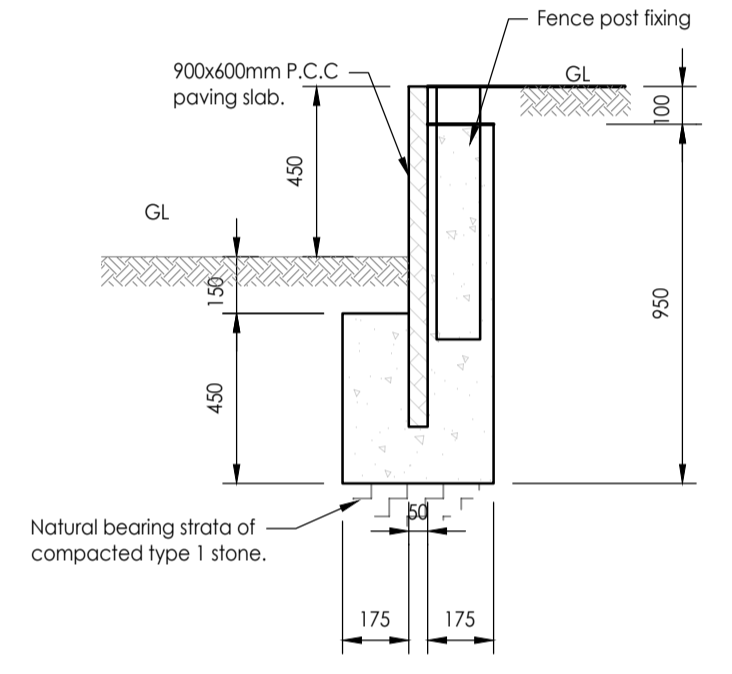


**Retaining Wall Notes**

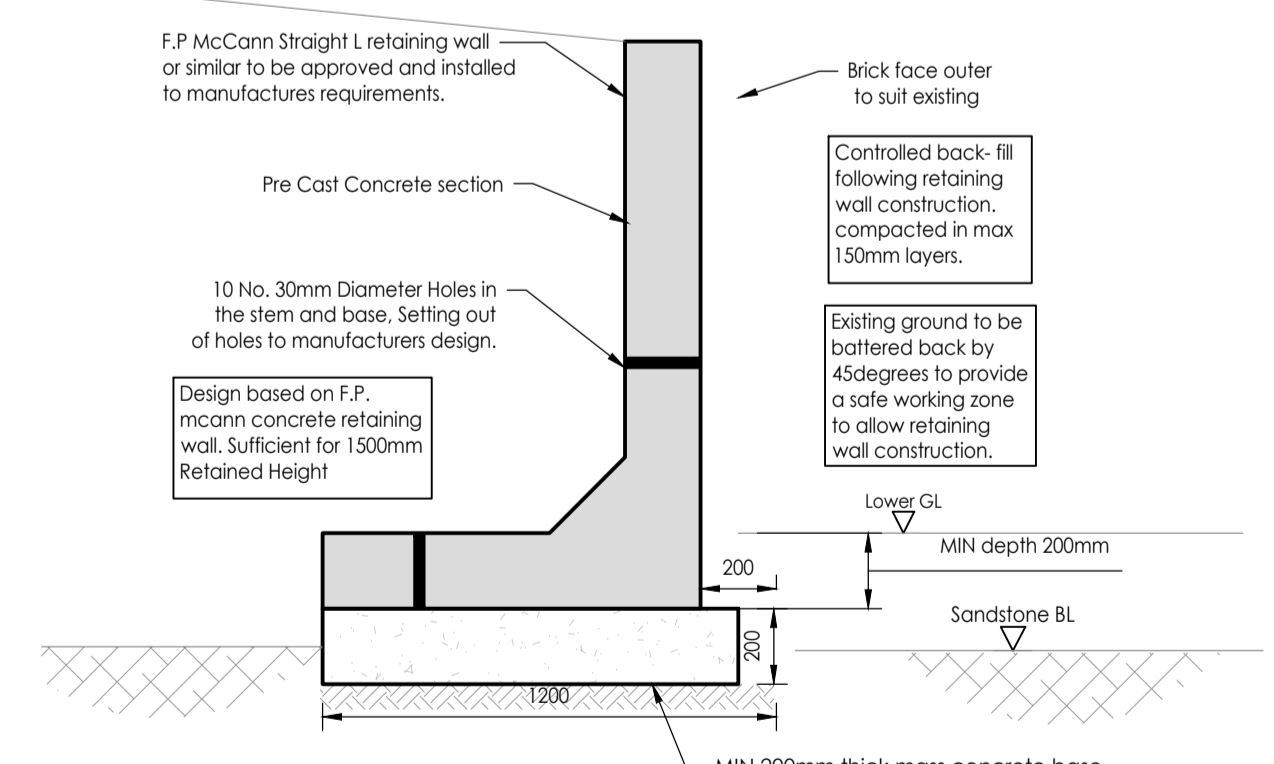
1. These notes are applicable for non highway works. They should not be used for walls constructed within 3.66m of a public highway or walls offered for adoption.
2. All work shall be undertaken in accordance with BRE Good Building Guide 27
3. The design of the wall allows for:-  
A design surcharge of 5 kN/m<sup>2</sup>  
A safe ground bearing pressure of 100 kN/m<sup>2</sup> in virgin material.  
Engineered areas where fill material is re-woked/replaced - GBP = Min 70 kN/m<sup>2</sup>  
All fences and hand-rails are independent of the wall and not connected in any way (unless noted otherwise on the drawings).  
The design does not allow for excavation in front of the wall. Any such work will necessitate temporary works, designed to accommodate the wall surcharge (unless noted otherwise on the drawings).
4. All soft spots of founding level to be reduced and made up with lean mix concrete as necessary.
5. Concrete is specified in accordance with BS 8500-1 and BRE Special Digest No. 1. All concrete is to conform to BS EN 206-1 and BS 8500-2.  
The Aggressive Chemical Environment for Concrete (ACEC) site classification is: DS-2  
Concrete strength/durability requirements are as follows:  
Compressive Strength Class: C35/FND2  
Nominal Cover: 50mm  
The Design Chemical Class is: AC-2. Where necessary, the strength/durability requirements indicated above should be enhanced to meet the requirements of BS 8500-1 and BRE Special Digest No. 1.  
The minimum cement contents indicated are based on the stated maximum aggregate size. If a smaller maximum aggregate size is used the cement content is to be increased in accordance with BS 8500-1.
6. Minimum block strength to be 10.4N/mm<sup>2</sup> to BS EN 771-3-2003. Minimum brick unit strength to be 27 N/mm<sup>2</sup> to BS EN 771-1-2003. Mortar to be mortar class M12 sulphate resistant to BS EN 998-2-2003. Minimum density of all materials to be 1500 kg/m<sup>3</sup>.
7. All bricks other than facing bricks are to be designation F2 (frost resistant, low sulphate) e.g. Class B engineering bricks.
8. All brick/blockwork shall be fully bonded or fixed using stainless steel 'fish tailed' vertical twist ties or 30 x 5 flat stainless steel ties of 450mm c/c vertically and 900mm c/c horizontally, and be staggered.
9. 15mm movement joints are to be provided at minimum 12m centres in brickwork walls. Movement joints to be continuous through masonry and concrete base. Joints shall be formed with a flexible filler and mastic sealant.
10. 75mm diameter weepholes are to be provided at minimum 2m centres, 2 courses above the lower ground level.
11. Where facing bricks are required, these are only to be used from one course above weepholes.
12. The rear of all retaining walls are to be waterproofed with either a bituminous membrane (e.g. bituthene, synthaproof) or 2 coats of bituminous emulsion. Waterproofing to be protected with fibreboard or similar.
13. Retaining walls to be backfilled with minimum 450mm wide free draining material incorporating a geotextile filter as indicated on the relevant section.



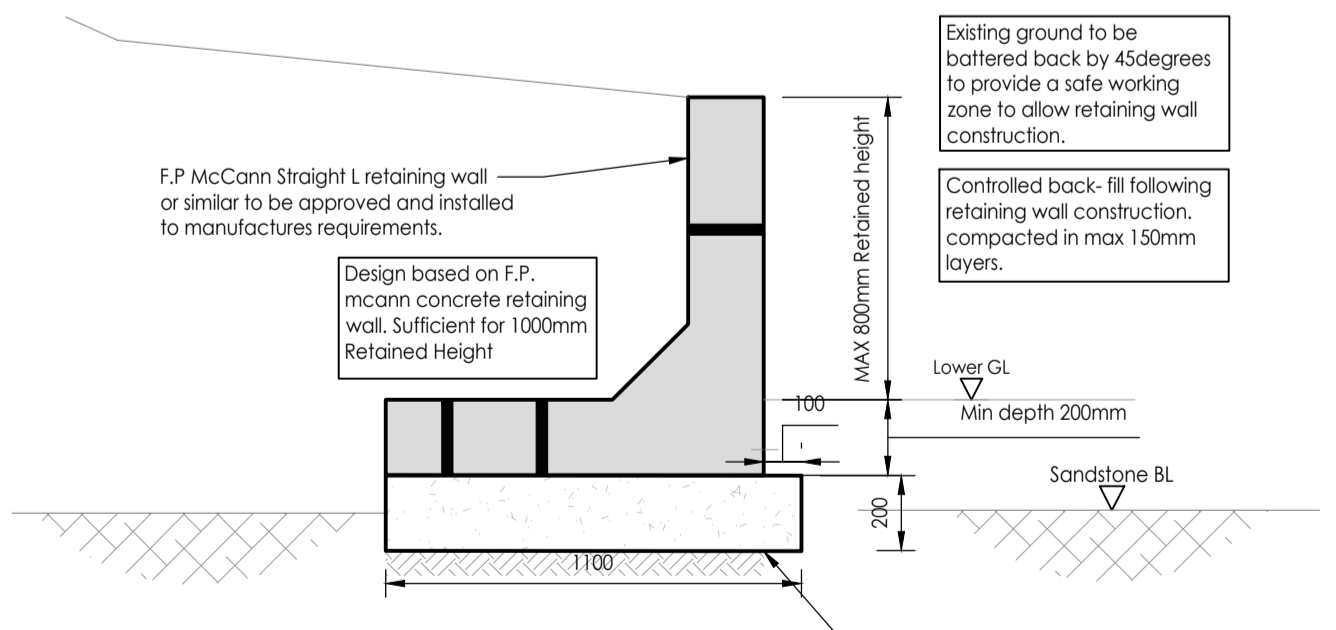
**Sections**  
(Scale 1:500)



**D03**  
(Scale 1:20)  
**Flag on edge (Foe)**  
**450mm max.**  
**Retained Height.**



**D01**  
(Scale 1:20)  
**Retaining Wall**  
**(1500mm Retained Height)**



**D02**  
(Scale 1:20)  
**Retaining Wall**  
**(1000mm Retained Height)**

HAZARD IDENTIFICATION BOX			
This table is provided to assist the Principal Contractor to fulfil their obligations under the CDM Regulations 2015			
Hazard Ref	Hazard Type (Construction/Operation/Maintenance/Adaptation)	Hazard Description	Mitigation Measures/ Residual Risk
1			

**Health & Safety Note**  
The details on this drawing have been prepared on the assumption that a competent contractor will be carrying out the works. If the contractor(s) considers that there is insufficient Health and Safety information on this drawing, this should immediately be brought to the attention of the designer.

Rev.	Date	Description	By / Authored By
P02	11/Nov/24	Updated to suit comments	CT/KS
P01	26/Sep/24	Initial Issue	CT/KS

Document Status: <b>S2 - Suitable for Information</b>			
Project: Land off Heaton Grange, Batley		WBE Reference: W21880	
Client:		Drawn By: CT	
Authorised By: KS		Retaining Wall Sections	
Classification: FL_60_20	Scale: As Shown	Date Issued: 26/09/2024	Project No: W21880-WBE-16-00-DR-S-3100
Revision: P02	Volume: 16	Level: DR	Sheet: S-3100