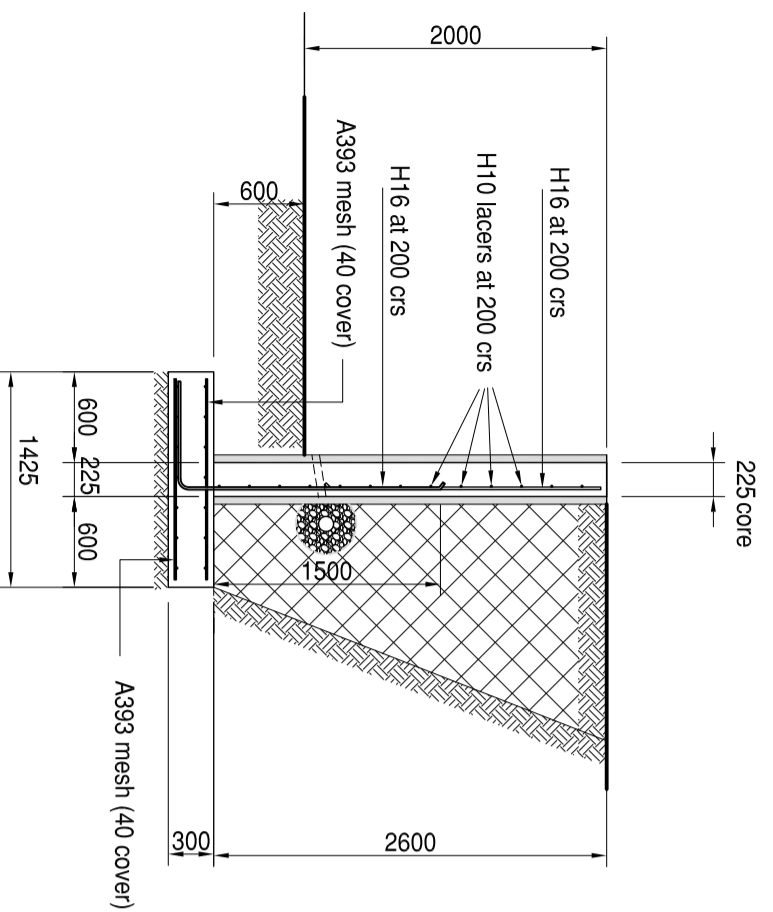
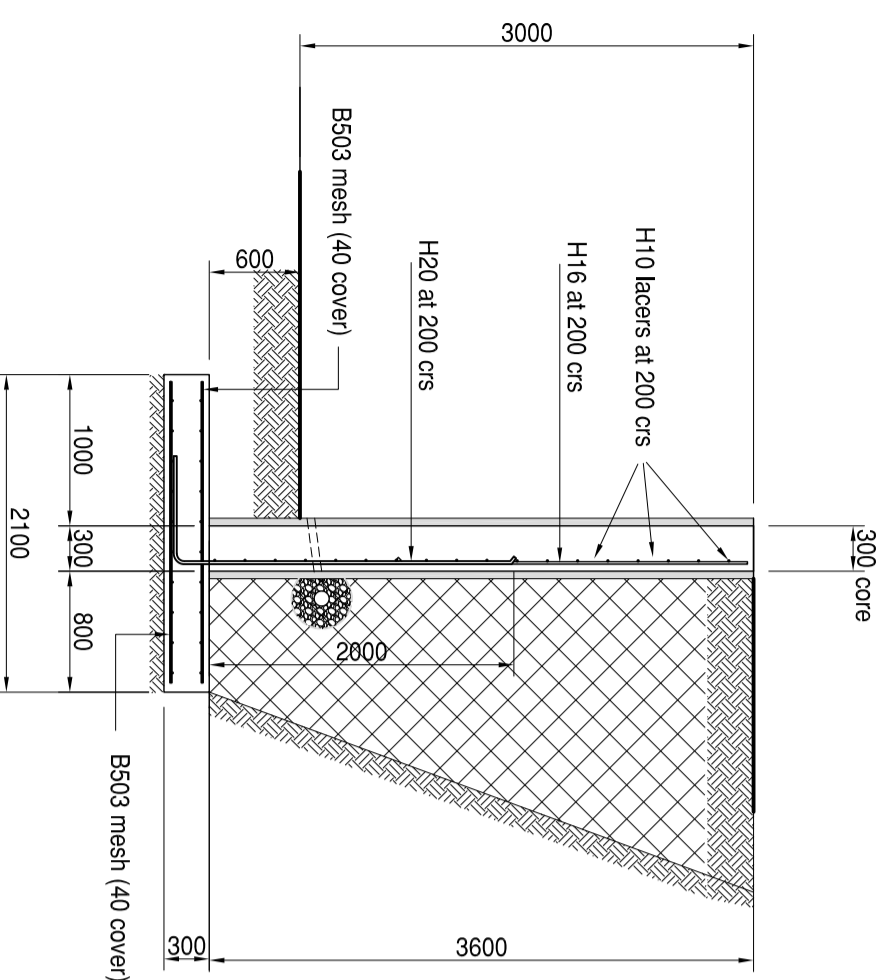


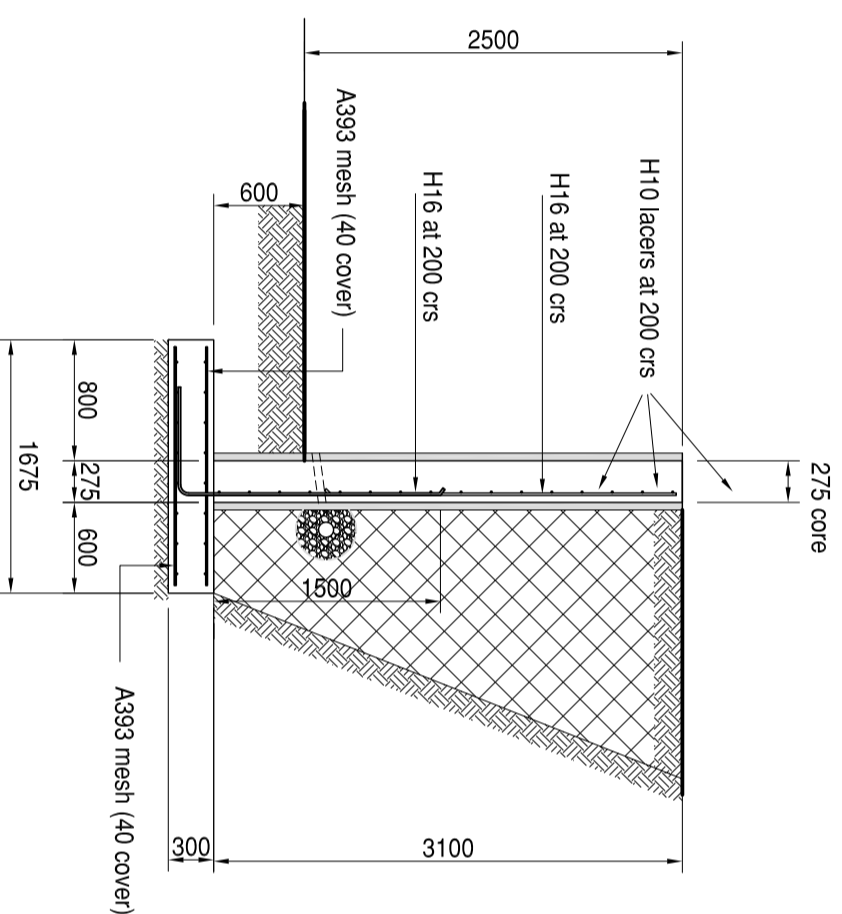
- Assumptions:-
- Ground is capable of 100kN/m² Safe Bearing Pressure;
 - The high level land to the rear of the retaining wall is flat;
 - ICF shuttering will be used to form the stems.



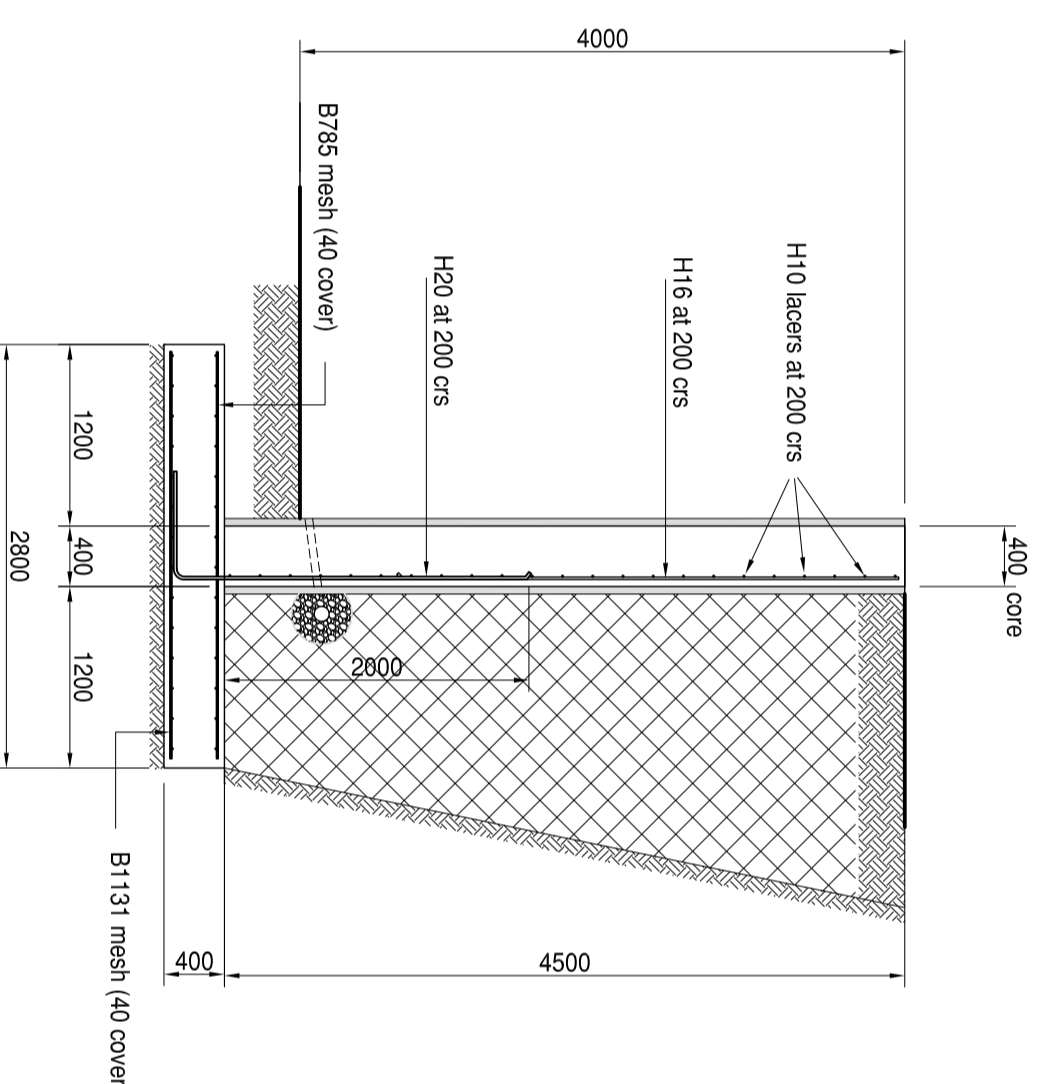
Section thru' 2.0m high Retaining Wall



Section thru' 3.0m high Retaining Wall



Section thru' 2.5m high Retaining Wall



Section thru' 4.0m high Retaining Wall

GENERAL NOTES

1. This drawing is to be read in conjunction with all relevant Architectural, Structural, Mechanical & Electrical specialist's drawings together with the project specifications.
2. The materials and workmanship of all relevant trades and building operations shall comply with the recommendations set in current British standards and codes of practice.
3. The contractor shall be solely responsible for the design and construction of all the temporary works propping and shoring.
4. The contractor shall inform Thomas Consulting Ltd immediately of any variations in the existing construction and that noted on the drawings.
5. All work is to comply with all relevant health and safety legislation and regulations.
6. Dimensions must not be scaled, use annotated dimensions only.
7. All dimensions are in millimetres, unless noted otherwise.
8. All dimensions are to be checked on site by the contractor prior to construction.

RETAINING WALL NOTES

1. The retaining wall design assumes a safe allowable bearing capacity of 100kN/m² at formation level. This should be confirmed on site to the satisfaction of the project's building control officer. Where the safe allowable bearing capacity is not achieved at the anticipated formation level and/ or soft spots are encountered, the strata is to be replaced with 6F5 fill material placed and compacted in 150mm thick layers.
2. A minimum 450mm wide drainage strip comprising of free draining granular material, coarse aggregate or similar approved, is to be provided to the rear of the retaining wall. The drainage strip is to incorporate a perforated land drain at the base which is taken to a suitable outfall via a silt trap. The drainage strip is to be fully wrapped in a Geotextile membrane, Terram or similar approved.
3. The main backfill to the rear of the retaining wall is to be selected excavated material, free from timber, frozen material, vegetable and foreign matter and exclude any stones or hard lumps of clay retained on a 40mm sieve.
4. All structural concrete to be designated mix RC35 to BS 8110, BS 8500 and BS EN 206-1
5. Mesh reinforcement to be grade 500N/m² in accordance with BS 4483: 2005.
6. The retaining wall shown, has been designed to sustain a maximum surcharge loading of 3 kN/sq.m. The client/contractor must ensure that this loading is not exceeded during the construction phase of the works or after completion. Should heavier loadings be proposed the engineer must be consulted and his advice received, prior to any further action. Thomas Consulting accept no liability in respect of damage caused through overloading of the structure.

DO NOT SCALE THIS DRAWING

A2

GENERAL NOTES:

1. Before construction commences, the setting out Engineer shall ensure that all setting out information is mutually compatible with all the drawings and documents provided by the designers. Where information is apparently contradictory or ambiguous, the design Engineer and/or the Architect is to be informed immediately. Thomas Consulting will accept no liability for setting out errors where work is constructed to incorrect information.
2. All drawings and documents are to be read in conjunction with one another, are mutually compatible and shall be read as such. All documents shall be checked to ensure that they are compatible by the contractor before construction commences. In the event of apparent ambiguity or contradiction the engineer/ and/or architect shall be notified immediately. Thomas Consulting accept no liability in the event of not being so notified and where construction work has commenced.
3. In accordance with CDM regulations 2015 this drawing has been prepared with due attention to identifying any unusual design hazards that may exist. Unusual design hazards are hazards that a reasonably competent contractor, experienced in this type of work may not be expected to identify. In dealing with unusual design hazards we have adopted the "ERIC" principle and where possible eliminated (E) the hazard at design stage. If it has not been possible to eliminate the hazard we have endeavoured to reduce (R) it. Where it has not been possible to eliminate these hazards, the hazard is noted on the drawing with appropriate information (I) in order that the hazard can be controlled (C) during construction. It is the contractor's responsibility to fully acquaint themselves with all the construction drawings before commencing construction and if in doubt about any matter to ask for clarification from the designer.
4. All drawings issued electronically for this scheme are provided for the sole purpose of assisting the design, procurement or construction of the structures for which Thomas Consulting have been appointed as Design Engineers/Consultants. They may not be used for any other purpose, nor may they be amended, copied, reissued, lent or issued to third parties without the written agreement of Thomas Consulting. All drawings remain under copyright to, and the intellectual property of, Thomas Consulting, upon completion of the project, all drawings are to be deleted from your computer systems and all other electronic copies destroyed. Where electronic copies of final drawings are to be issued, these will be provided in a digital only format by Thomas Consulting (no other copies may be retained). By operating and using this drawing, it is assumed that you agree to abide by these Terms and Conditions.
5. Unless expressly agreed with a director of Thomas Consulting Ltd, for the purposes of the CDM regulations 2015 Thomas Consulting are not the Principal Designer. The client has been advised that they are required to appoint a Principal Designer. For further information see <http://www.hse.gov.uk/>.

REVISIONS

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
A		Description	INT	INT

DRAWING STATUS:

FOR DISCUSSION

THOMAS CONSULTING
STRUCTURAL & CIVIL DESIGN ENGINEERS

Offices in *Charley, Lancaster & Shrewsbury*
Tel: 01743 237940
e-mail: info@thomasconsulting.co.uk

CLIENT:

WELLBUILT LTD

PROJECT:

VICTORIA STREET, ROSSENDALE

DRAWING TITLE:

RETAINING WALL OPTIONS

IN ADDITION TO THE HAZARDS/RISKS ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, PLEASE NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS:	
ITEM	HAZARD IDENTIFICATION

DATE CREATED:	DRAWING SCALE:	DRAWN BY:	CHECKED BY:	QA CATEGORY:
13-12-2021	1:50 @ A2	HWF		1
DRAWING REF:				REV:
TC / P8634/21 / 300				-