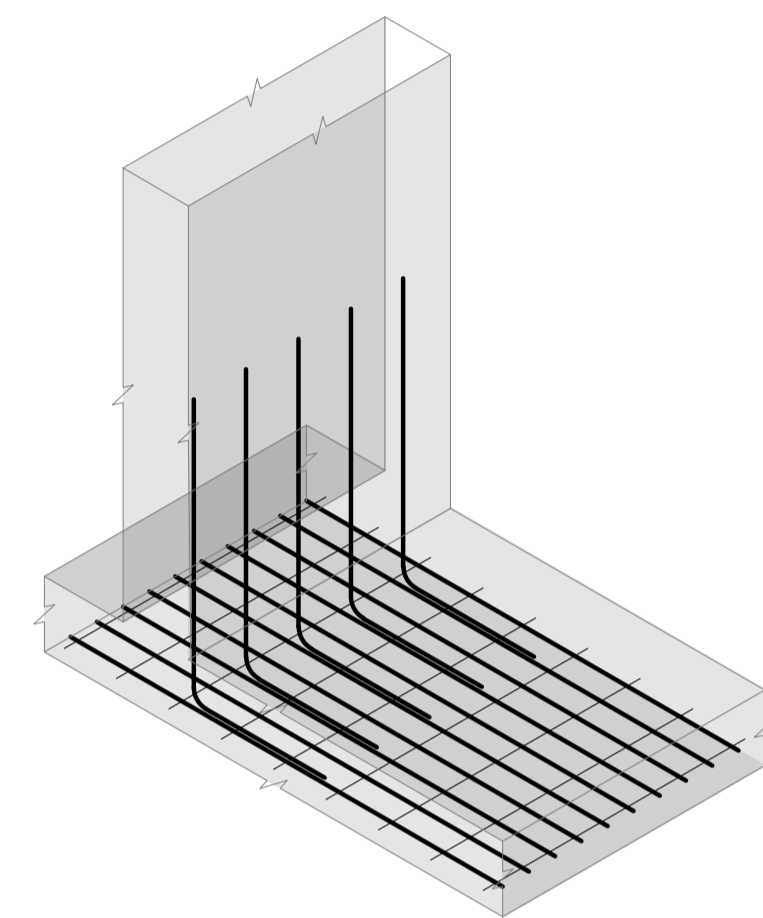
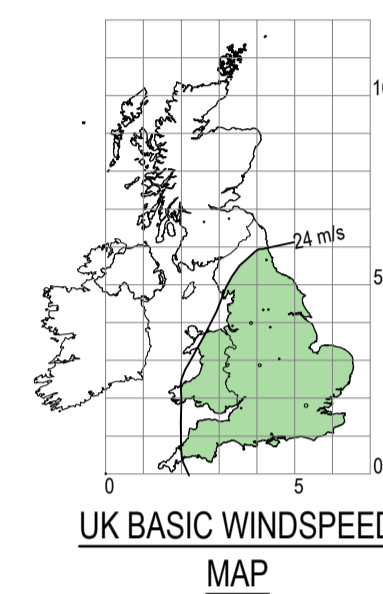


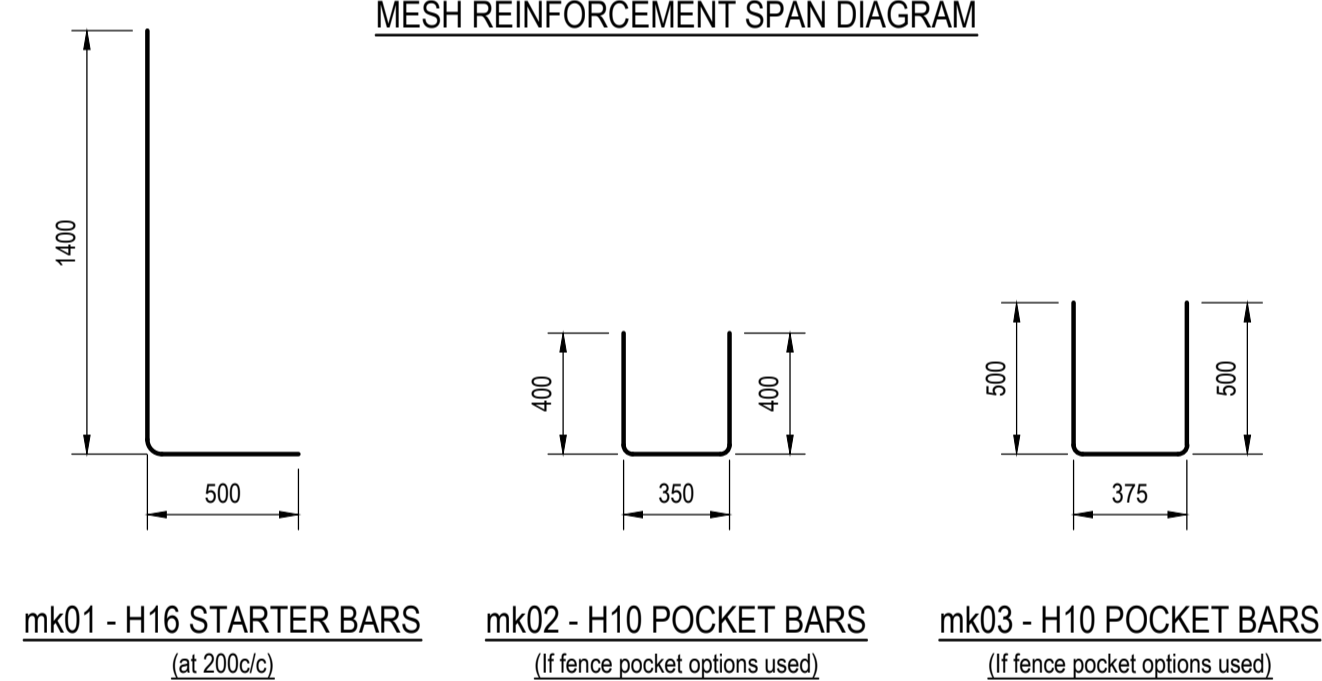
THE WALLS SHOWN ARE ONLY TO BE USED ON SITE WHERE THE FOLLOWING DESIGN CRITERIA APPLY.

DESIGN NOTES

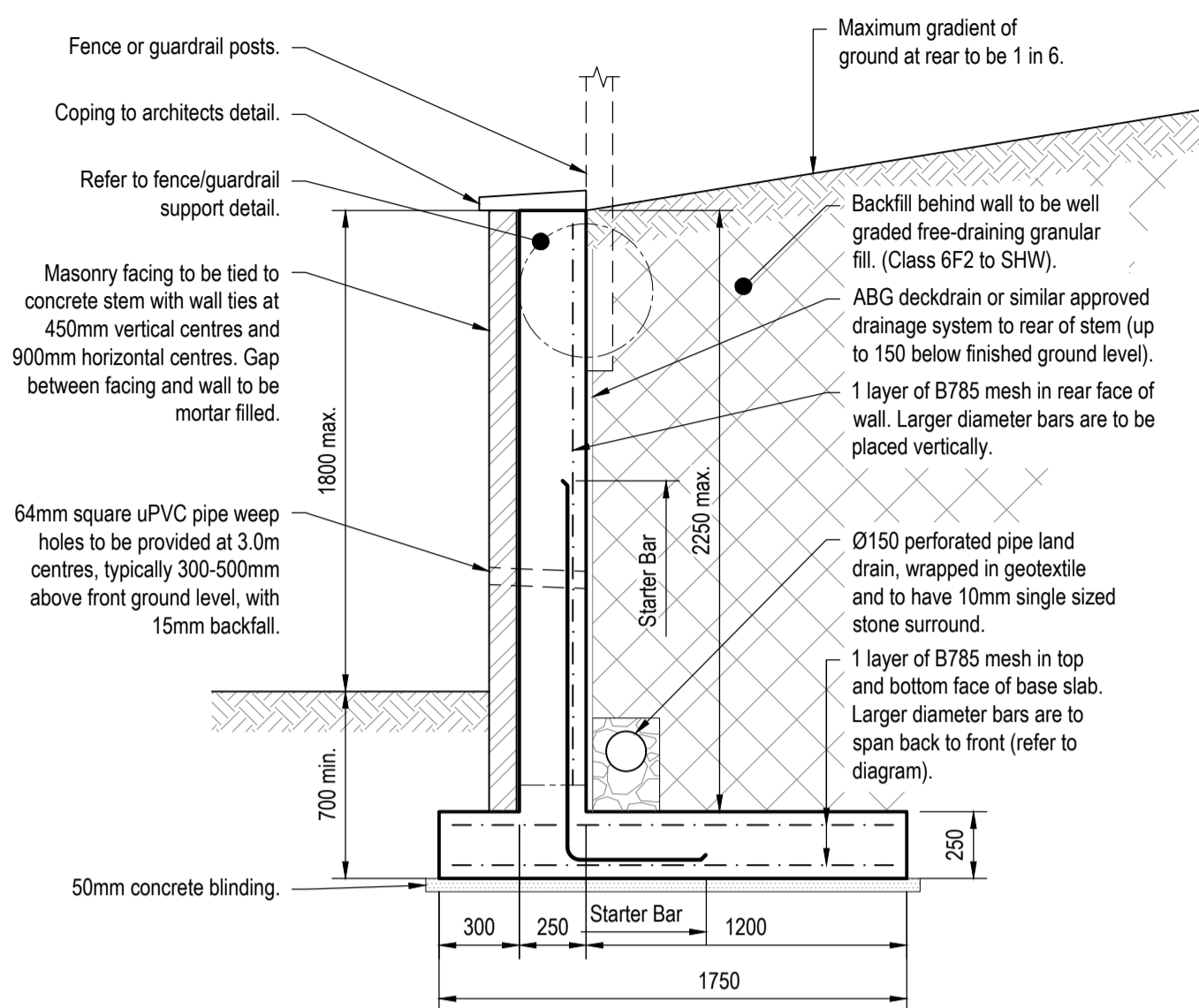
- A. The wall has been designed to resist a maximum surcharge of 2.5 kN/m² (i.e. garden or domestic driveway loading). For more onerous loading, e.g. heavy vehicle or highway surcharge, Eastwood and Partners should be consulted.
- B. In combination with the surcharge, the wall is designed to support a 1.80m high fence with a wind load of 1.0 kN/m² (peak wind velocity: 32 m/s), which relates to the following criteria:
 - a. Sites with a basic wind speed of 24 m/s or less (most of England and Wales).
 - b. Sites with a mean altitude of 150m or less.
 - c. Site 2.5km or more from the shore.
 - d. Sites on the edge or within a town (surrounded by vegetation or buildings).
 - e. Sites away from the crests of hills, cliffs and escarpments.
 If any of the above are not satisfied, Eastwood and Partners should be consulted.
- C. The wall has been design to resist a maximum construction surcharge of 10.0 kN/m², when no fence or wind susceptible structure is fixed to the rear of the wall.
- D. The natural ground is to have a minimum allowable bearing pressure of 100 kN/m². Where walls are to be constructed on softer ground than assumed - Eastwood and Partners should be consulted.
- E. This design will not be applicable in the vicinity of trees, on steeply sloping sites, on sites affected by mining subsidence or where ground strength reduces with depth.



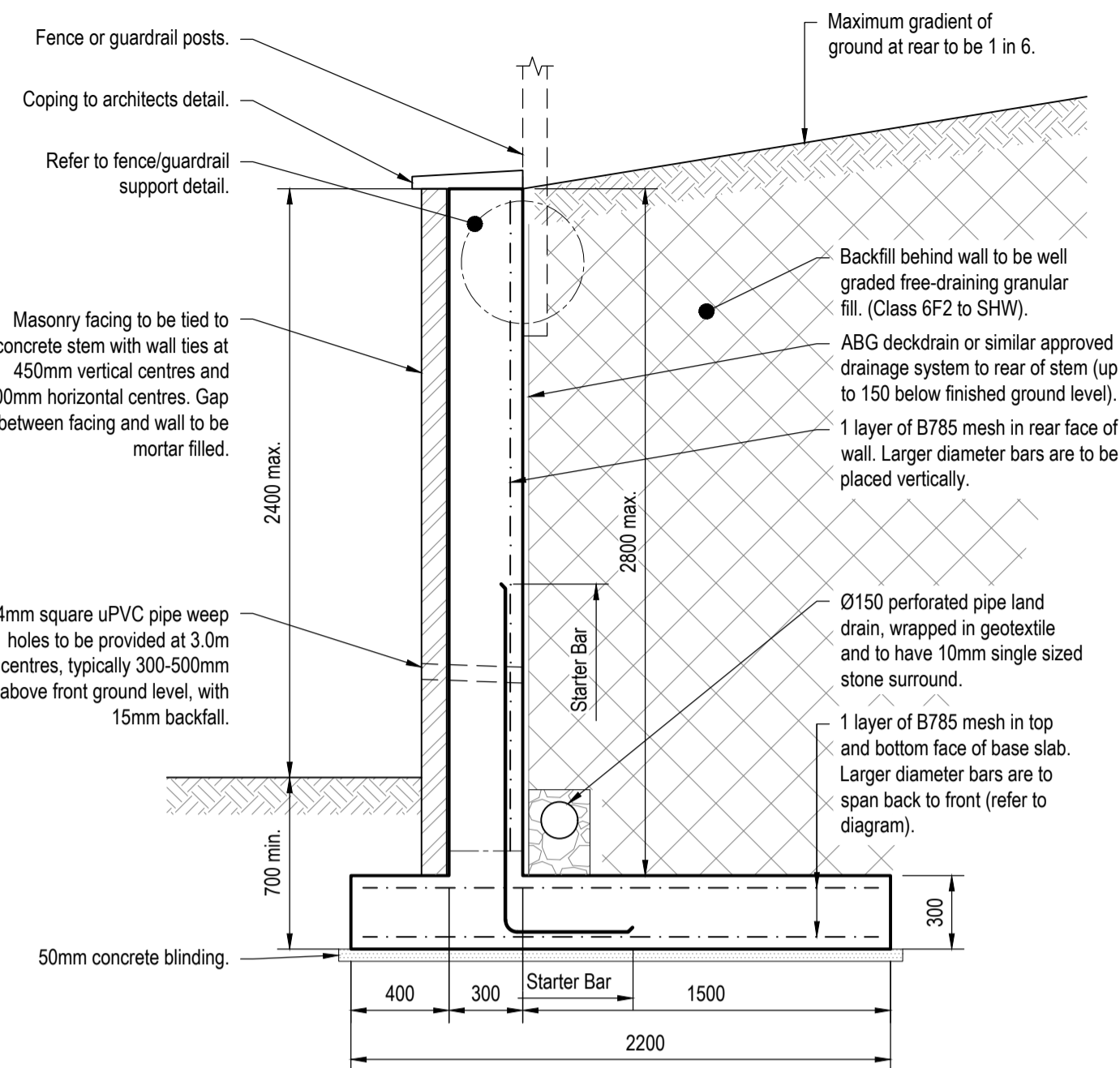
MESH REINFORCEMENT SPAN DIAGRAM



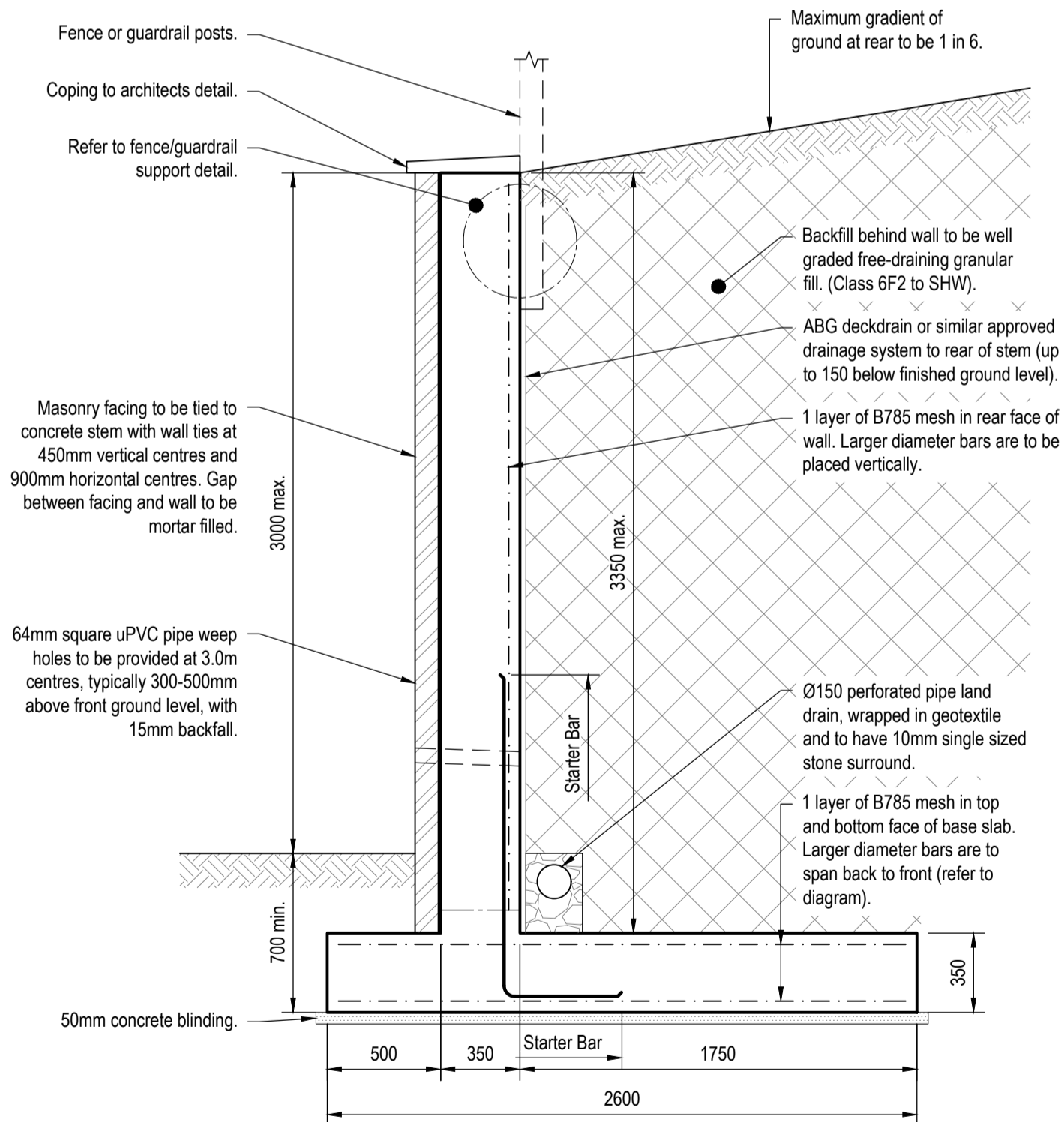
CUT & BENT REINFORCEMENT BARS SCALE 1:25



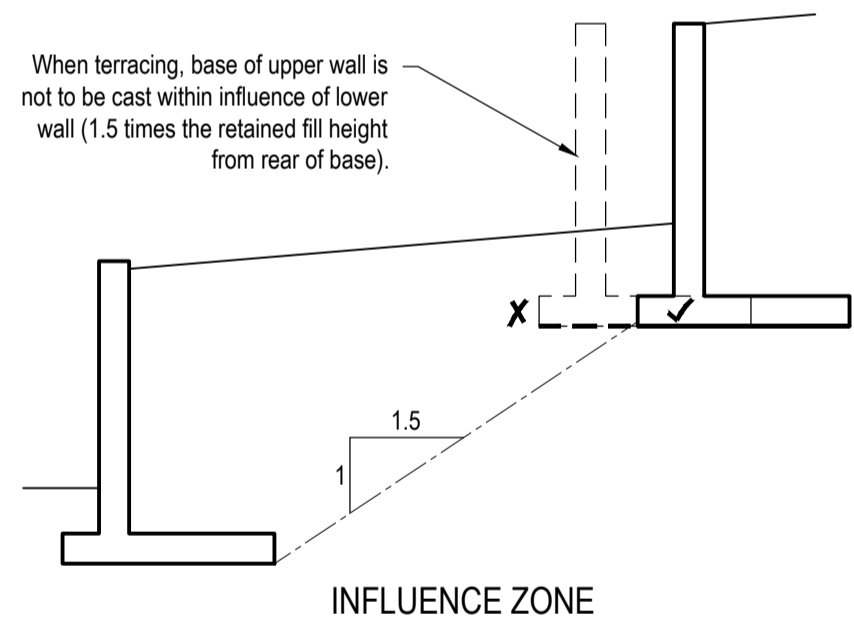
RETAINING WALL DETAIL UP TO 1.80m RETAINED HEIGHT SCALE 1:25



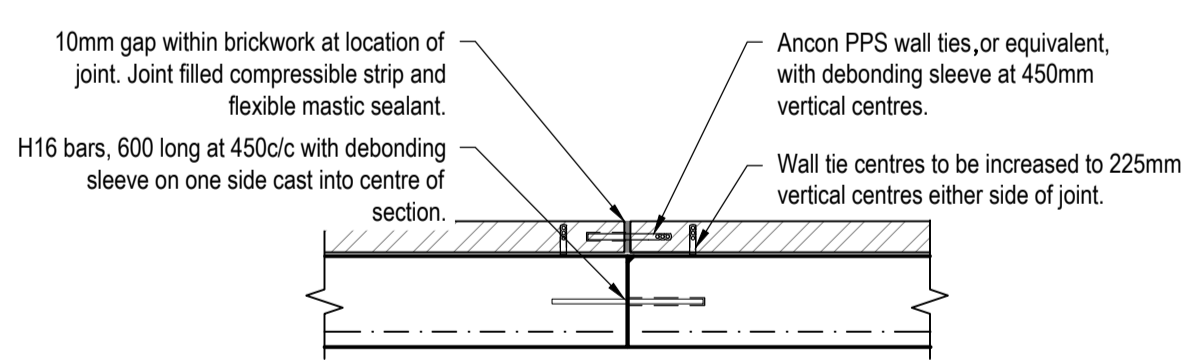
RETAINING WALL DETAIL UP TO 2.40m RETAINED HEIGHT SCALE 1:25



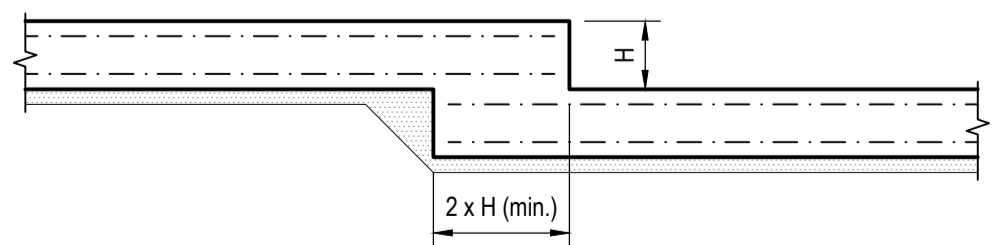
RETAINING WALL DETAIL UP TO 3.00m RETAINED HEIGHT SCALE 1:25



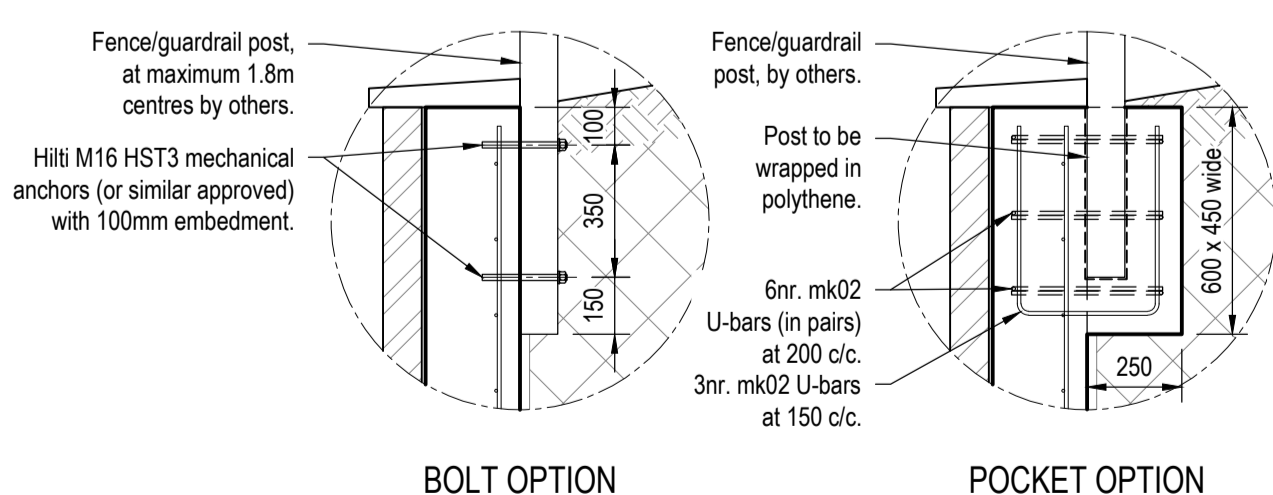
INFLUENCE ZONE



TYPICAL WALL JOINT DETAIL (AT MAXIMUM 6.0m CENTRES) SCALE 1:25



STEP IN BASE DETAIL SCALE 1:25



FENCE/GUARDRAIL SUPPORT DETAIL SCALE 1:20

Information within this drawing is not necessarily produced to scale. Always use figured dimensions and co-ordinates - if in doubt, ask.

NOTES

1. This drawing is to be read in conjunction with all relevant external works and foundation layouts.
2. Concrete to comply with the National Structural Concrete Specification for Building Construction 4th Edition (NSCS) generally. Project specific elements are highlighted below.
3. Concrete to be designated mix FND2 to BS 8500-2 (see note 14).
4. Nominal cover to reinforcement to be 50mm unless stated otherwise for exposure class XC3/4 & ACEC AC-2.
5. Fabric mesh reinforcement to be Grade B500A, B500B or B500C to BS4483:2005.
6. Facing below ground level (and including 150mm above ground level) to be Class B Engineering bricks conforming to BS EN 771-1 or manufactured stone units conforming to BS EN 771-5 (suitable for exposure class MX3.2).
7. Facing above ground level to be clay units conforming to BS EN 771-1 with F2 freeze/thaw resistance and S2 sulphate resistance with a water absorption not exceeding 12% or manufactured stone units conforming to BS EN 771-5 (suitable for exposure class MX3.1).
8. Mortar in accordance with EN 998-2 & BS EN 1996-2: Below ground & coping - Type (i) / M12 designation Above ground - Type (ii) / M6 designation
9. Coping to be either Class B Engineering bricks conforming to BS EN 771-1, manufactured stone units conforming to BS EN 771-5 or dedicated coping stones (suitable for exposure class MX3.2).
10. Facing to be constructed in stretcher bond.
11. Wall ties to be Ancon SPB 150mm frame cramps (or similar approved) to BS EN 845-1.
12. The blinding for the structure should be cast on competent natural ground, described as having an allowable bearing pressure of at least 100 kN/m².
13. Where competent ground is not encountered at the proposed formation level, the ground should be replaced with well compacted selected granular fill or mass concrete down to competent ground.
14. The Aggressive Chemical Environment for Concrete assumed is DS-2 AC-2. For more onerous soil conditions, Eastwood and Partners should be consulted.

FORMATION NOTES

A	First Issue.			
REV	DESCRIPTION	SIG	CHK	DATE

CHARTFORD DEVELOPMENTS LTD

STANDARD DETAILS

REINFORCED CONCRETE RETAINING WALL DETAILS

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SCALE WHEN PLOTTED AT A1		DRAWING STATUS	
1:25 1:10		CONSTRUCTION	

DRAWN	CHECKED	DATE	DRAWING NUMBER	REV
RJ	CH	20.07.22	46783/004	A