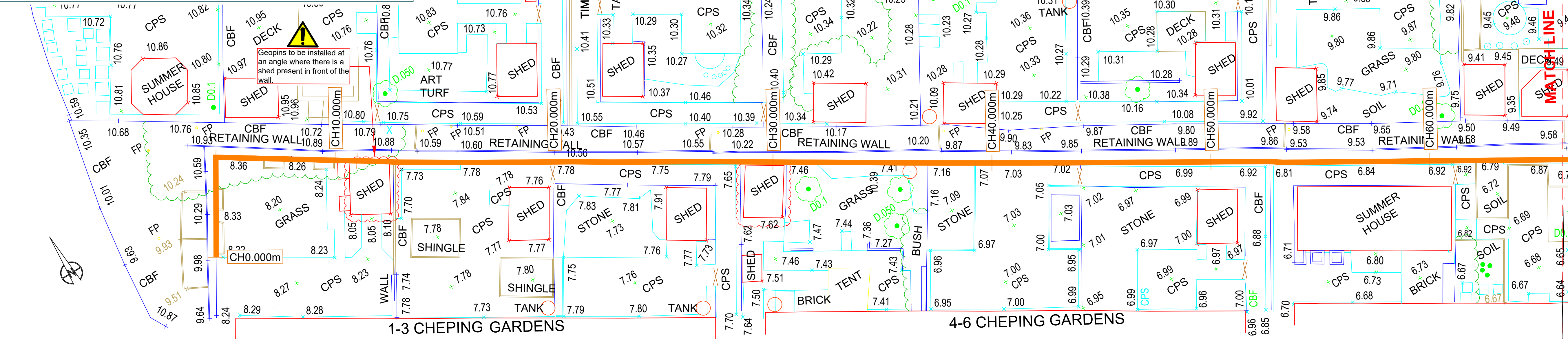
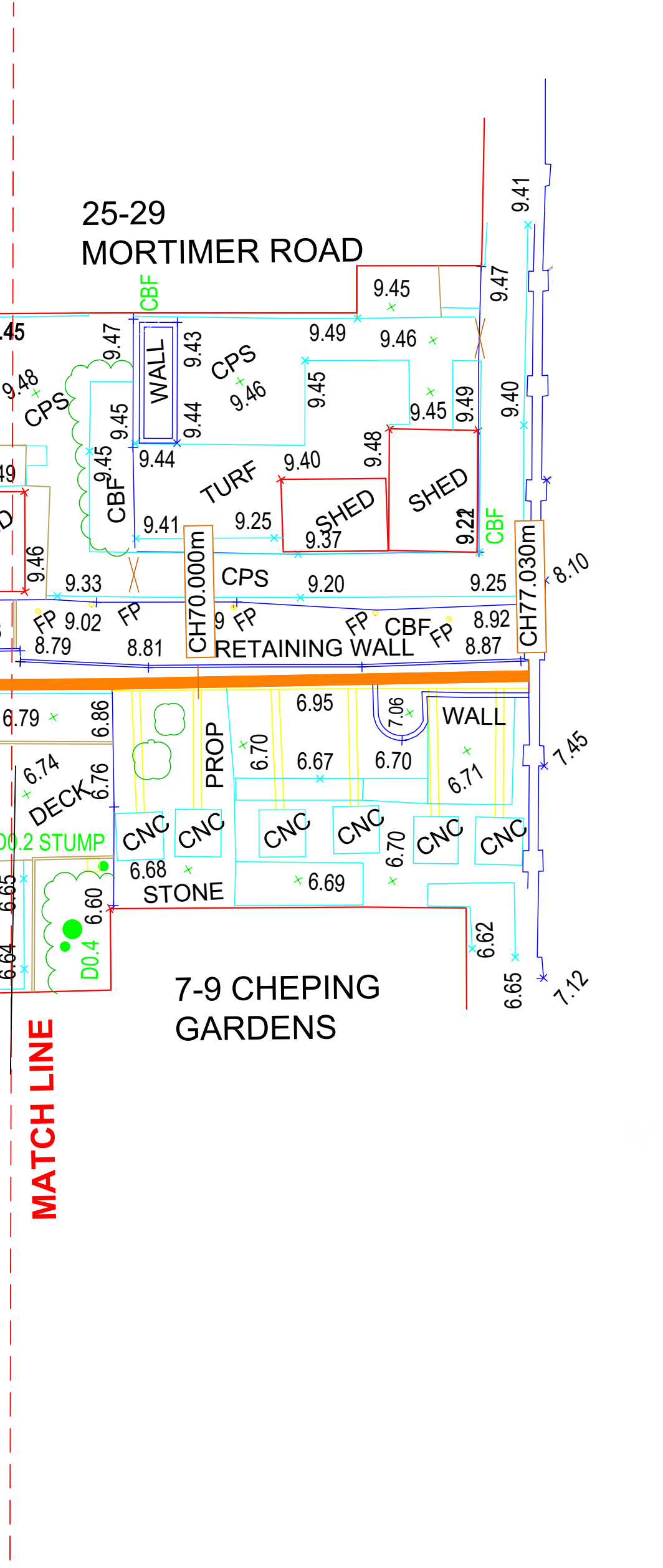


INDICATIVE LOCATION OF SECURA GRAND WALL 02 ( Part 1 of 2)  
1:100  
All wall geometry, setting out and required offsets to be confirmed by the Principal Contractor and/ or Client's Consulting Engineer prior to construction. The Principal Contractor and/ or Client's Consulting Engineer must also confirm the locations of all services prior to construction and ensure that none will be affected by the wall and its installation.

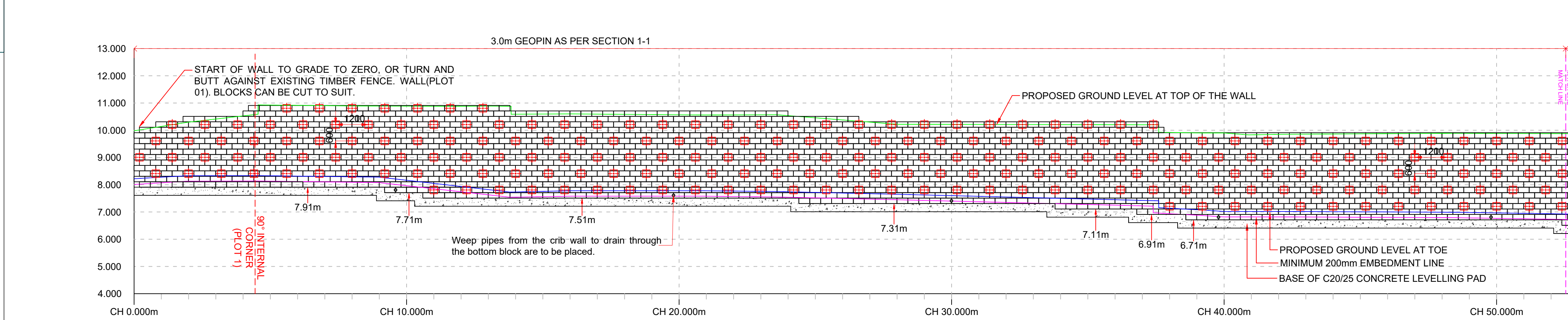


- NOTES
- 1) All dimensions in mm unless otherwise specified.
  - 2) MATERIAL SPECIFICATION
    - Secura Grand wall 7" blocks
    - Stabilisure galvanised high-tensile steel geopins, galvanised head plates and connector pins
    - Stabilisure galvanised steel connecting pins
  - 3) INSTALLATION  
Please refer to the standard Manufacturer's installation guidelines.
  - 4) REINFORCEMENT
- GEOPIN SECTION**  
Stabilisure galvanised high-tensile steel geopins are to be driven at minimum 1200mm horizontal and 600mm vertical centres as specified into the retained ground to the depths indicated. Prior to installation of the facing min. 3% of the geopins, with at least one from each row, must be pulout tested to the proof load labelled on the relevant section. If the pulout resistance is lower than required by the design, additional geopins may be required. Approx. 300mm of free length to be left to pass into the C20/25 concrete backfill.
- C20/25 CONCRETE section:**  
C20/25 concrete to be installed to the width shown on the relevant section. The concrete must be poured into the voids in and between the blocks to create a monolithic structure. Concrete backfill must be placed in lifts no higher than 600mm per day. C20/25 concrete backfill with min. density of 24kN/m3 to be used. Concrete backfill must be placed in lifts no higher than 600mm per day.
- 5) DRAINAGE:  
**C20/25 CONCRETE BACKFILL**  
A 110 mm Ø rigid and robust drainage pipe should be installed along the entire length of the base at the front of the wall. The pipe must be fully jettable and connected to a discharge point, to be defined by others. The drainage system should be maintained regularly.  
Drainage geocomposite strips are to be placed on the excavated bank and wrapped around the drainage pipe.  
Outlets through the face of the wall/ drainage points must be installed at maximum 20m spacings and low points along the wall to ensure the full length of drainage pipes can be positively drained and maintained. Site drainage on the retaining side of the wall is outside the scope of this design.  
**The installation area must be well-drained to provide a stable area of work for the wall installer.**  
The excavated slopes should be checked for any flows or seepage that require drainage measures. Any flows, seepage or standing water must be directed to a suitable outfall as soon as they are encountered.
- Permanent and maintained site drainage must also be installed to ensure run-off is directed away from the wall in the long term. The Client must accept responsibility to ensure the wall remains in a fully drained condition for the full life span of the structure. Regular drainage maintenance should be included in the maintenance regime for the site.
- It is the responsibility of others to ensure the wall drainage is connected to a suitable discharge point**
- 6) FOUNDATION FOR WALL  
In the absence of any site investigation information, and as per DPS Structural Engineers report 13183-SER-02, Aug/24, Section 3.2, it has been assumed that the wall will be founded on the original, undisturbed Wittering Formation of sand, silt, and clay.  
Intrusive investigation of the soils present at and below the formation level must be undertaken prior to construction, with the results forwarded to Stabilisure Ltd. for review.  
C20/25 concrete levelling pad to be formed on the original Wittering Formation of sand, silt, and clay, with a minimum safe bearing resistance of 100 kPa. This should be confirmed via plate bearing testing prior to construction.  
Any soft, loose, or unsuitable material (such as made ground, alluvium, or peat) present at or below formation level must be excavated down to the Wittering Formation and replaced with compacted Class 6F2/6F5 granular fill. Client's Geotechnical Advisor has confirmed in writing that the required safe bearing resistance has been achieved.
- 7) SITE / IN-SITU SOILS  
In the absence of any site investigation information, and as per DPS Structural Engineers report 13183-SER-02, Aug/24, Section 3.2, it has been assumed the in-situ soils have the following properties as a minimum:  
Foundation/Retained (original firm Wittering Formation of sand, silt, and clay):  
 $\phi' = 30^\circ$   $\gamma = 19 \text{ kN/m}^3$  and  $c' = 0 \text{ kPa}$
- The Principal Contractor is responsible for ensuring the in-situ soils comply with the geotechnical characteristics as shown on the relevant drawings and in the design calculations.
- 8) TYPICAL FRONT FACE STEP  
The Secura blocks are to be laid with the ridge at the base of the blocks against the rear face of the blocks below, in order to achieve a batter of 7° from the vertical.
- 9) PEDESTRIAN PROTECTION  
It has been assumed it is proposed to install a 1.8m high fence to the top of the wall as pedestrian restraint (design and details are by others).  
Stabilisure must be advised as the foundation detail will need to be revised to cater for increased lateral loading.
- 10) SETTLEMENT AFFECTING SERVICES/SURFACE FINISH  
Some settlement will occur after construction, depending on the compaction and condition of the soils at formation and the backfill placed.  
Post-construction of the wall, the surface of the uplit should be monitored, and installation of any services or final surfacing should be delayed until post-construction settlement has ceased. A settlement assessment of the wall is outside our scope.  
**Construction of the upper-tier retaining wall to be delayed until at least one month post-construction of the lower tier to prevent excessive settlement.**
- 11) SURCHARGE  
A maximum live load of 5kN/m<sup>2</sup> was assumed to act on the retained side of the wall.  
Please advise if a higher allowance should be considered, and we will revise this design.
- 12) SETTING OUT  
The wall line shown on the plan is as per the drawing provided SLS - Southern Land Survey, and the section of the existing wall is as per the section provided on DSP Structural Engineers' report. 13183-SER-02, AUG/2024.
- 14) NOTES ON CALCULATIONS/DRAWINGS:  
These plans and the accompanying design documentation should be thoroughly checked by the Principal Designer. Any apparent errors, omissions or variations should be reported immediately to Stabilisure Ltd. Construction of these walls shall not commence unless and until the Client/ Principal Designer has considered the Stabilisure Design Submission Document (QP06 Ref: 25-3061) to ensure that there are no errors, omissions or conflicts with the scheme design.

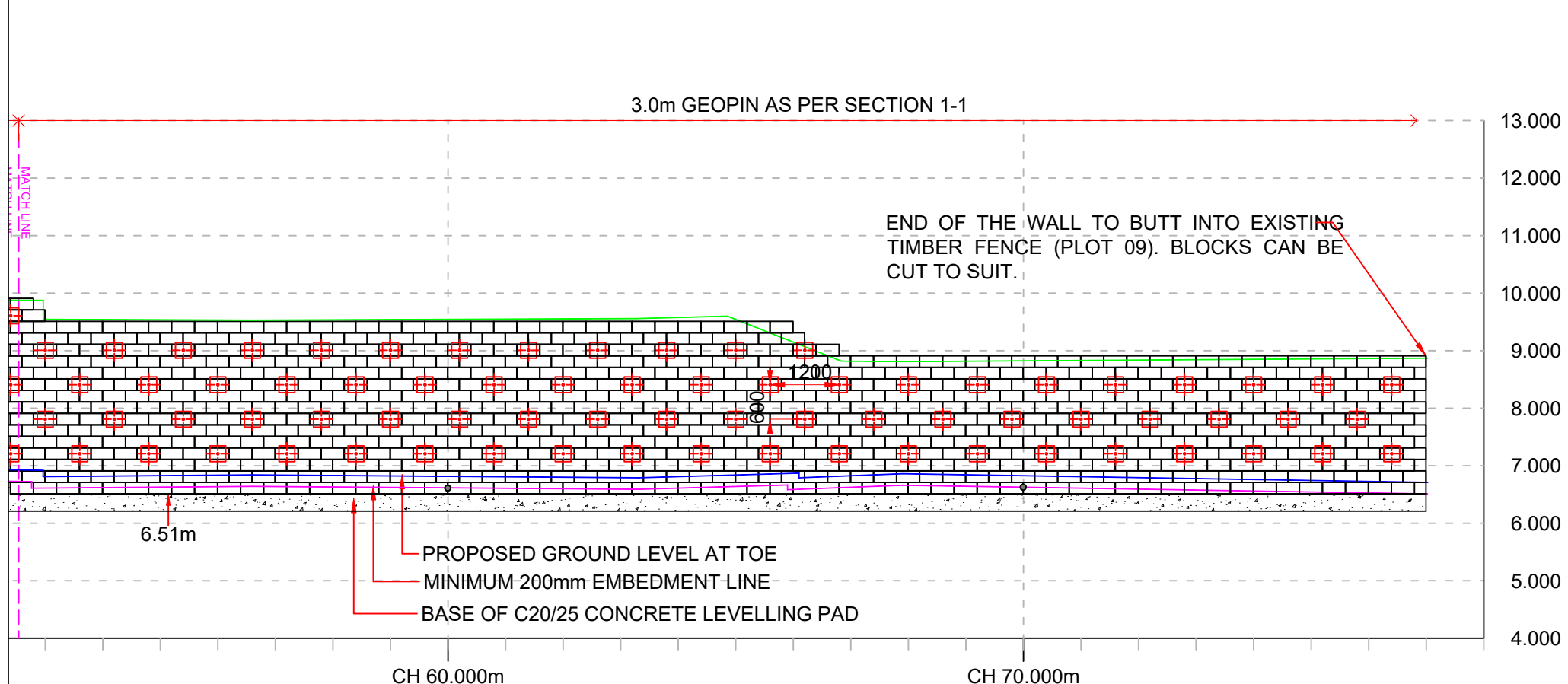
INDICATIVE LOCATION OF SECURA GRAND WALL 02 ( Part 2 of 2)  
1:100  
All wall geometry, setting out and required offsets to be confirmed by the Principal Contractor and/ or Client's Consulting Engineer prior to construction. The Principal Contractor and/ or Client's Consulting Engineer must also confirm the locations of all services prior to construction and ensure that none will be affected by the wall and its installation.



ELEVATION ( Part 1 of 1)  
1:100

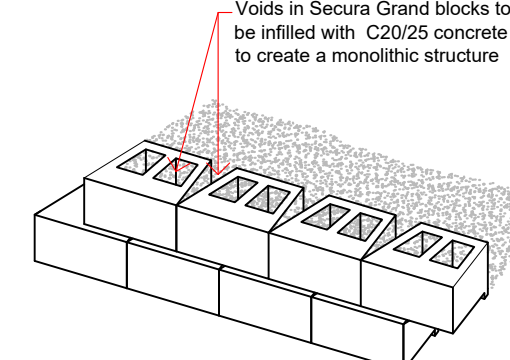


ELEVATION ( Part 2 of 2)  
1:100

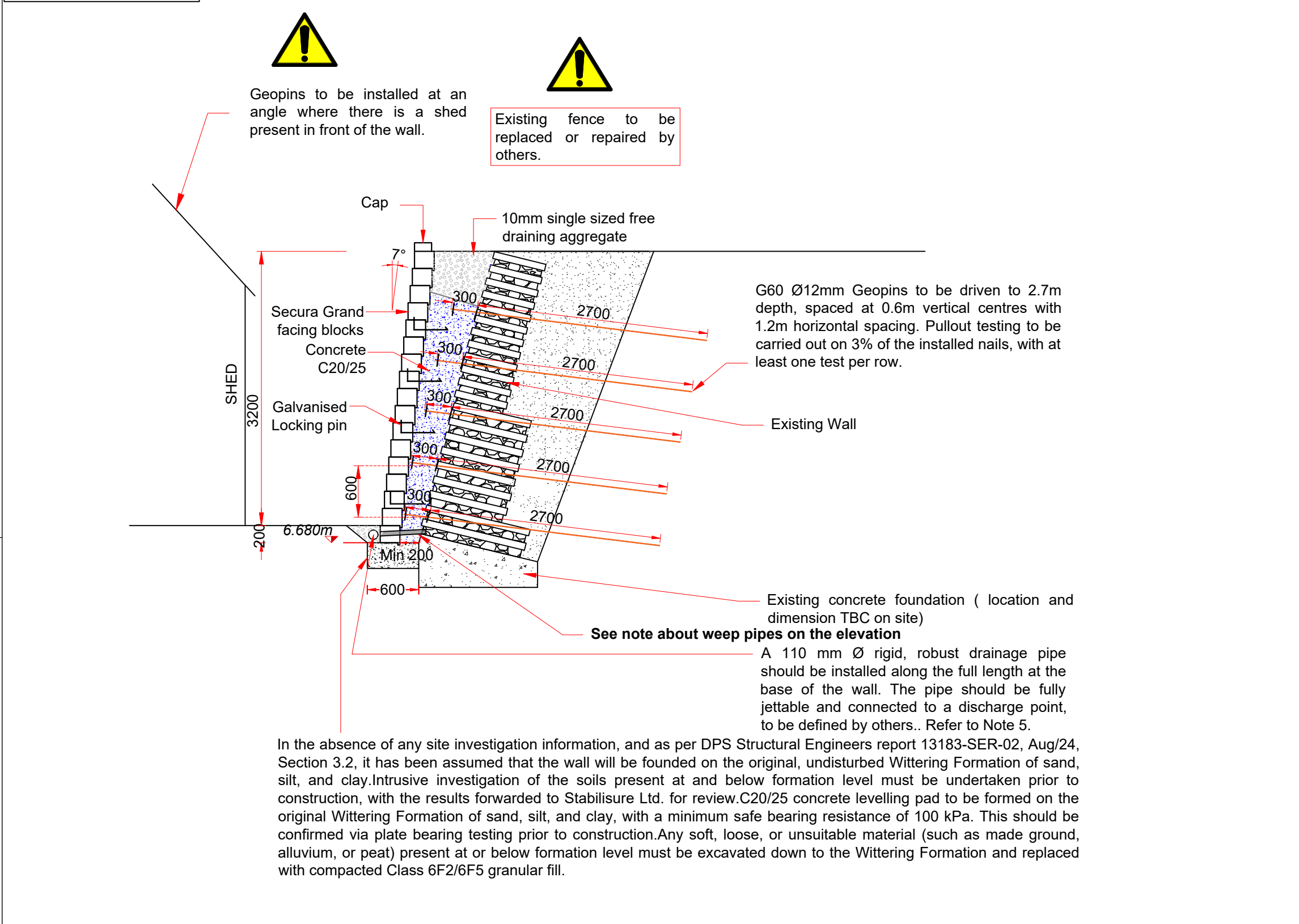


**KEY**  
3.00m LONG GEOPIN  
MIN 200mm C20/25 CONCRETE BACKFILL

**C20/25 CONCRETE Section**  
C20/25 concrete to be installed to the width shown on the design section. The concrete must be poured into the voids in and behind the blocks to create a monolithic structure.  
**Concrete backfill must be placed in lifts no higher than 600mm per day.**



SECTION 1-1  
1:50



|                                                                                                         |  |                  |  |                            |  |                                                                                                                                                                                                    |  |
|---------------------------------------------------------------------------------------------------------|--|------------------|--|----------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Drawing Title:<br>Secura Grand Retaining Plan, Elevation & Section                                      |  | Designed:<br>NPC |  | Date:<br>15.06.26          |  | Project Title:<br>CHEPING GARDENS, SOUTHAMPTON                                                                                                                                                     |  |
| Scale @ A1: Unit:<br>AS SHOWN mm                                                                        |  | Drawn:<br>NPC    |  | Date:<br>15.06.26          |  | Client:<br>ELLIS BELK                                                                                                                                                                              |  |
| Project Number:<br>25-3061                                                                              |  | Checked:<br>GM   |  | Date:<br>15.06.26          |  | Drawing Status:<br>CONCEPT/ PRELIMINARY ONLY <input type="checkbox"/> FOR APPROVAL <input checked="" type="checkbox"/> FOR CONSTRUCTION <input type="checkbox"/> AS BUILT <input type="checkbox"/> |  |
| Drawing Number:<br>SK25-3061-F1-02                                                                      |  | Revision:<br>C   |  | Status/Rev:<br>Description |  |                                                                                                                                                                                                    |  |
| Notes:<br>Wall length revised.<br>Notes amended.<br>Weep Pipes added.<br>Drawing released for approval. |  | N/A              |  | N/A                        |  | N/A                                                                                                                                                                                                |  |
| Date:<br>12.06.26<br>10.07.25<br>09.10.25<br>01.09.25                                                   |  | N/A              |  | N/A                        |  | N/A                                                                                                                                                                                                |  |
| Drawn/ App:                                                                                             |  | N/A              |  | N/A                        |  | N/A                                                                                                                                                                                                |  |

