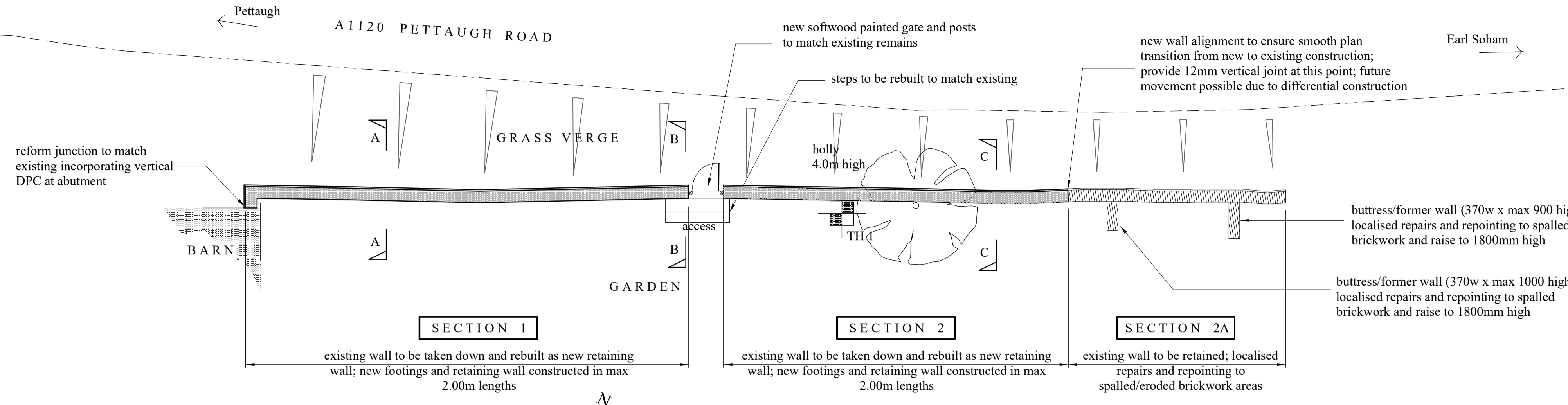
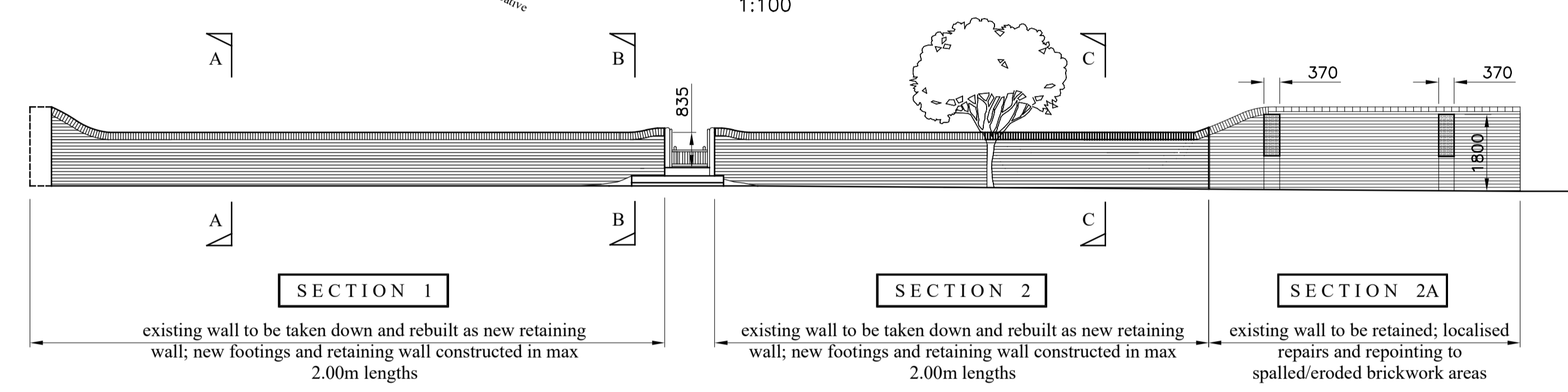


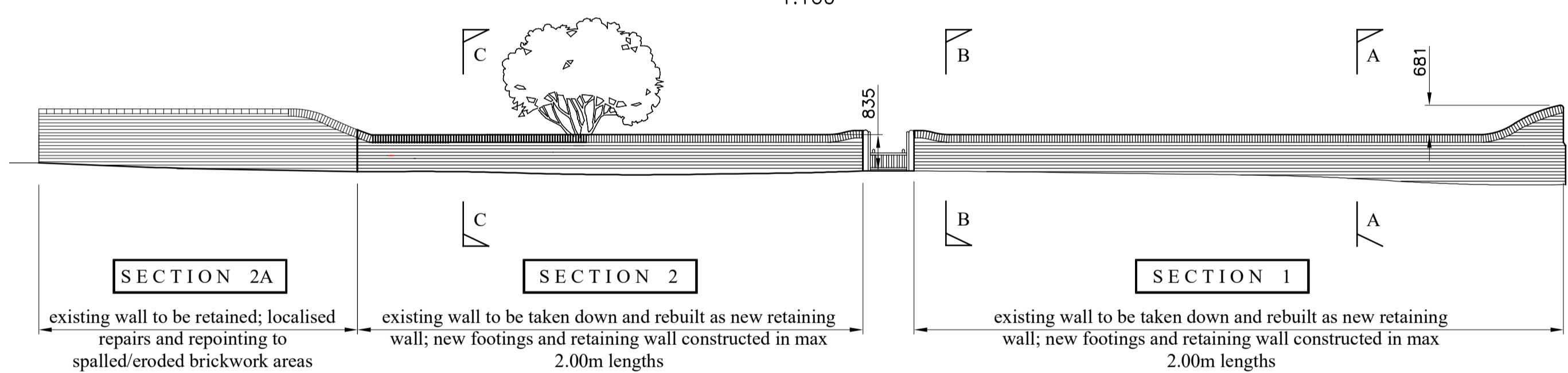
NOTE: CHECK ENGINEER'S DRAWINGS WITH LATEST DRAWING ISSUE SHEET.



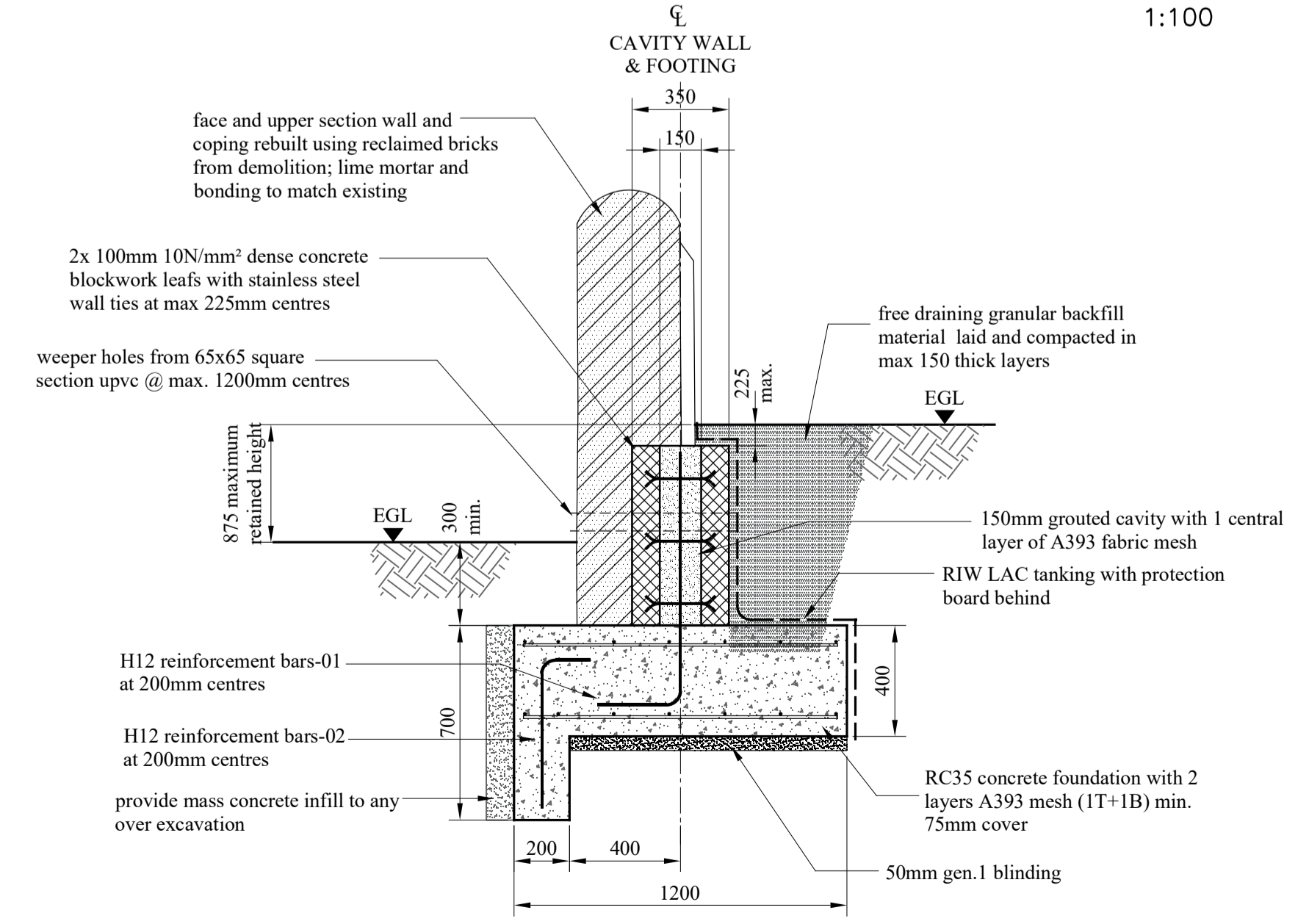
REMEDIAL WORKS - PLAN  
1:100



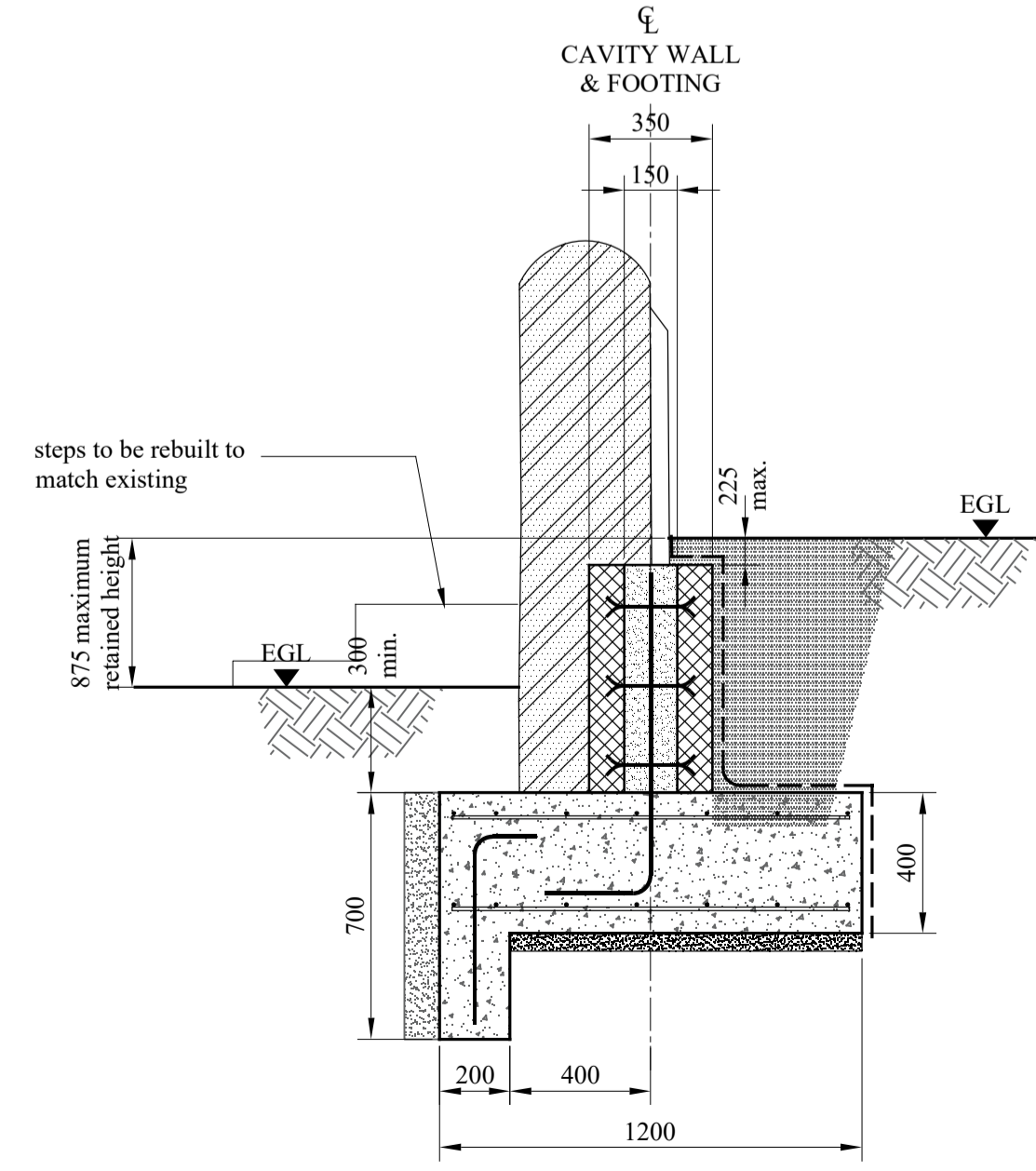
REMEDIAL WORKS - SOUTH ELEVATION (PROPOSED)  
1:100



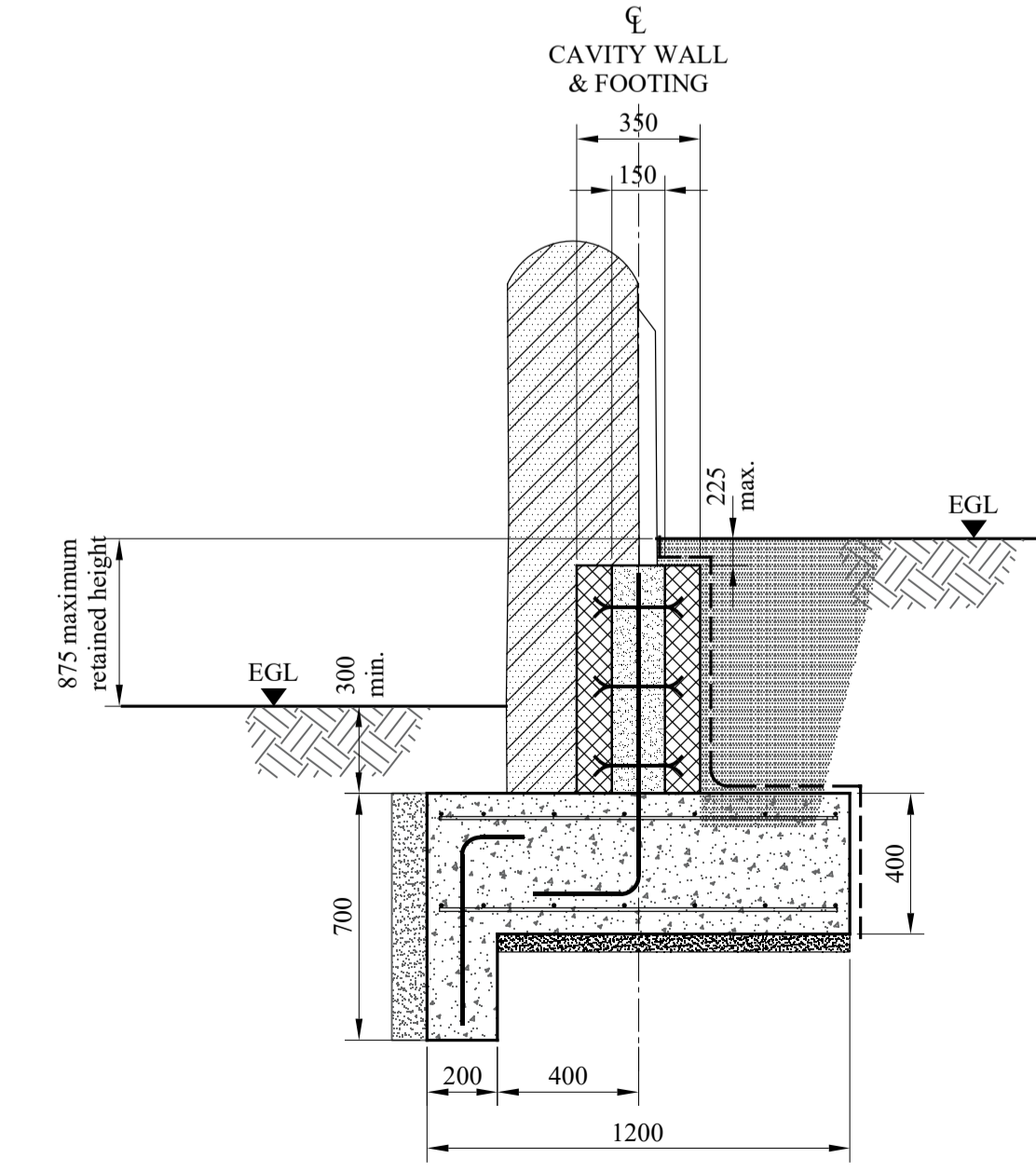
REMEDIAL WORKS - NORTH ELEVATION (PROPOSED)  
1:100



SECTION A-A  
1:20



SECTION B-B  
1:20  
REFER TO SECTION A-A FOR NOTATION



SECTION C-C  
1:20  
REFER TO SECTION A-A FOR NOTATION

**REINFORCED MASONRY RETAINING WALLS  
STANDARD CONSTRUCTION NOTES.**

- ALL MATERIALS TO COMPLY WITH BS5628 PT2.
- MINIMUM COVER TO ALL REINFORCEMENT TO BE 40MM IN BASE AND 50MM IN GROUTED CAVITY, MINIMUM MESH LAP 450MM.
- VERTICAL TWIST STAINLESS STEEL TYPE WALL TIES MIN. LENGTH AS SPECIFIED (250 MIN.) TO BE PROVIDED AT 450MM CENTRES HORIZONTALLY AND VERTICALLY.
- CONCRETE INFILL TO BE PLACED IN LAYERS NOT EXCEEDING 450MM HIGH TO WITHIN 50MM OF THE LEVEL OF THE LAST COURSE LAID.
- INFILL CONCRETE TO BE 1 : 1/4 : 3 : 2 (CEMENT-LIME-SAND:10MM NOM.MAX. AGGREGATE SIZE) OR RC.35 SLUMP TO BE BETWEEN 75MM AND 175MM.

**TYPICAL CONSTRUCTION SEQUENCE**

- EXCAVATE, FIX REINFORCEMENT AND CAST R.C. RETAINING WALL BASE WITH STARTER BARS FIXED AND PROTRUDING IN SET POSITION AT RELEVANT CENTRES.
- FIX MESH ONTO STARTER BARS AND BUILD UP FIRST 450MM HIGH MAX. LIFT OF WALL. PROVIDE WALL TIES (STAINLESS STEEL TWIST TYPE) AT 450MM CRS. HORIZONTALLY AND VERTICALLY. USE SUITABLE MEANS (E.G. WRAPPING TIES WITH DENSO TAPE WITHIN CAVITY) TO PREVENT CONTACT BETWEEN REINFORCEMENT AND WALL TIES. FIX MESH TO TIES USING WIRE TO PROVIDE AND MAINTAIN ADEQUATE COVER. ALLOW ADEQUATE TIME FOR MORTAR TO GAIN SUFFICIENT STRENGTH.
- INFILL CAVITY WITH REQUIRED CONCRETE MIX TO WITHIN 50MM OF THE LEVEL OF THE LAST COURSE LAID USING RECEPICLES WITH SPOUTS TO AVOID STAINING FACING MASONRY. ADEQUATELY COMPACT USING MECHANICAL VIBRATOR OF SUITABLE SIZE.
- BUILD UP NEXT 450MM MAX. HIGH LIFT OF MASONRY PROVIDING WALL TIES AS STATED IN STEP 2. (PROVIDE WEEPHOLES IN WALL AT MAX. 1500 CRS HORIZONTALLY, ONLY IF CALLED FOR ON RELEVANT DRAWINGS).
- ENSURE THAT THE CONCRETE POURED IN THE PREVIOUS LIFT HAS SUITABLY HARDENED. (SEE NOTE BELOW)
- INFILL CAVITY WITH REQUIRED GRADE CONCRETE MIX TO WITHIN 50MM OF THE LAST COURSE LAID USING RECEPICLES WITH SPOUTS TO AVOID STAINING FACING MASONRY. ADEQUATELY COMPACT USING MECHANICAL VIBRATOR OF SUITABLE SIZE.
- REPEAT STEPS 4 TO 6 UNTILL WALL IS OF REQUIRED HEIGHT.
- PROVIDE TANKING/LAND DRAINS ETC. WHERE REQUIRED.
- ONCE MORTAR AND CONCRETE ARE OF SUITABLE STRENGTH, BACKFILLING BEHIND THE WALL MAY COMMENCE.

NOTE: CARE TO BE TAKEN TO AVOID RAISING WALL TOO RAPIDLY, THIS CAUSING DISRUPTION DUE TO EXCESSIVE LATERAL PRESSURE FROM THE INFILL CONCRETE. BEFORE THE MASONRY AND PREVIOUSLY PLACED INFILL CONCRETE HAS HAD TIME TO GAIN SUFFICIENT STRENGTH.

**NOTES:**  
DO NOT SCALE FROM THIS DRAWING.

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS & ARCHITECTS DRAWINGS, SPECIFICATIONS & CALCULATIONS, ETC.

REFER TO ARCHITECT'S/ BUILDING DESIGNER'S DRAWINGS FOR GENERAL CONSTRUCTION NOTES.

LENGTHS OF ALL MEMBERS TO BE TAKEN FROM THIS ACTUAL SITE DIMENSIONS AND NOT SCALED FROM THIS DRAWING.

**FOUNDATIONS:**  
FOUNDATIONS TO BE TAKEN DOWN INTO VIRGIN STRATUM FOR DESIGN PURPOSES MAX. ALLOWABLE GROUND BEARING PRESSURE OF 150 KN/sq M HAS BEEN USED.

ANY SOFT SPOTS AT FORMATION LEVEL ARE TO BE REMOVED AND BACKFILLED USING GEN3 CONCRETE.

**CONCRETE SPECIFICATION:**  
CONCRETE GRADE IN RETAINING WALL BASE - RC.35  
ALL TO BE DESIGNATED MIXES IN ACCORDANCE WITH BS 8500.

**SAFETY:**  
ALL SERVICES IN THE AREA OF THE WORKS TO BE LOCATED AND ISOLATED/DIVERTED AS REQUIRED.

ALL EXCAVATIONS TO BE PROVIDED WITH ADEQUATE SIDE SUPPORT SYSTEM AS DEEMED NECESSARY BY THE GROUNDWORKS CONTRACTOR.

ALL PROTRUDING REINFORCEMENT BARS, ESPECIALLY STARTER BARS TO BE TEMPORARILY CAPPED USING PROPRIETARY PLASTIC SAFETY CAPS TO PREVENT/ELIMINATE THE HAZARD OF IMPALEMENT.

SITE PERSONNEL TO ADHERE TO ALL SAFETY PRECAUTIONS IN TERMS OF PERSONAL PROTECTIVE EQUIPMENT (PPE) AS DEEMED NECESSARY BY THE CONTRACTOR IN ACCORDANCE WITH THE PPE AT WORK REGULATIONS 1992.

**FOUNDATION DEPTHS:**

FOUNDATION DEPTHS SHOWN ARE ANTICIPATED MINIMUM, BASED ON LIMITED GROUND INVESTIGATION.

FOUNDATION DEPTH TO BE MEASURED FROM THE LOWER OF PROPOSED FINISHED OR EXISTING GROUND LEVEL.

FOUNDATIONS TO BEAR INTO VIRGIN BOULDER CLAY STRATUM.

E	03/09/20	Existing wall profiles removed from section details as requested	JKD
D	25/08/20	Minor amendments to planners comments; existing wall alignment removed and as marked	JKD
C	10/08/20	Drawing revised to accord with measured survey; re-titled to suit	JKD
B	14/02/20	Revised After Site Meeting	JKD
A	31/01/20	Preliminary Issue	JKD
	Date	Issue	Chkd.

© copyright

CLIENT  
Ali Rogers

PROJECT  
Remedial Works:  
Garden Wall, Boundary Farm,  
Framsden IP14 6HL

DRAWING  
Works Plan, Elevations & Sections  
based on Measured Survey

ARCHITECT/DESIGNER  
Bob Foulkes - Hollins

**G C ROBERTSON & ASSOCIATES LTD**  
Consulting Civil & Structural Engineers  
60 High Street, Wickham Market, Woodbridge, Suffolk. IP13 0QU  
email: engineers@gcrobertson.co.uk Tel: (01394) 384887  
www.gcrobertson.co.uk

Scale As Shown@A1 Date January 2020

Drawn by S.J. Checked by JKD Approved by JKD

Drg. No. 19/11157-02 Issue. E