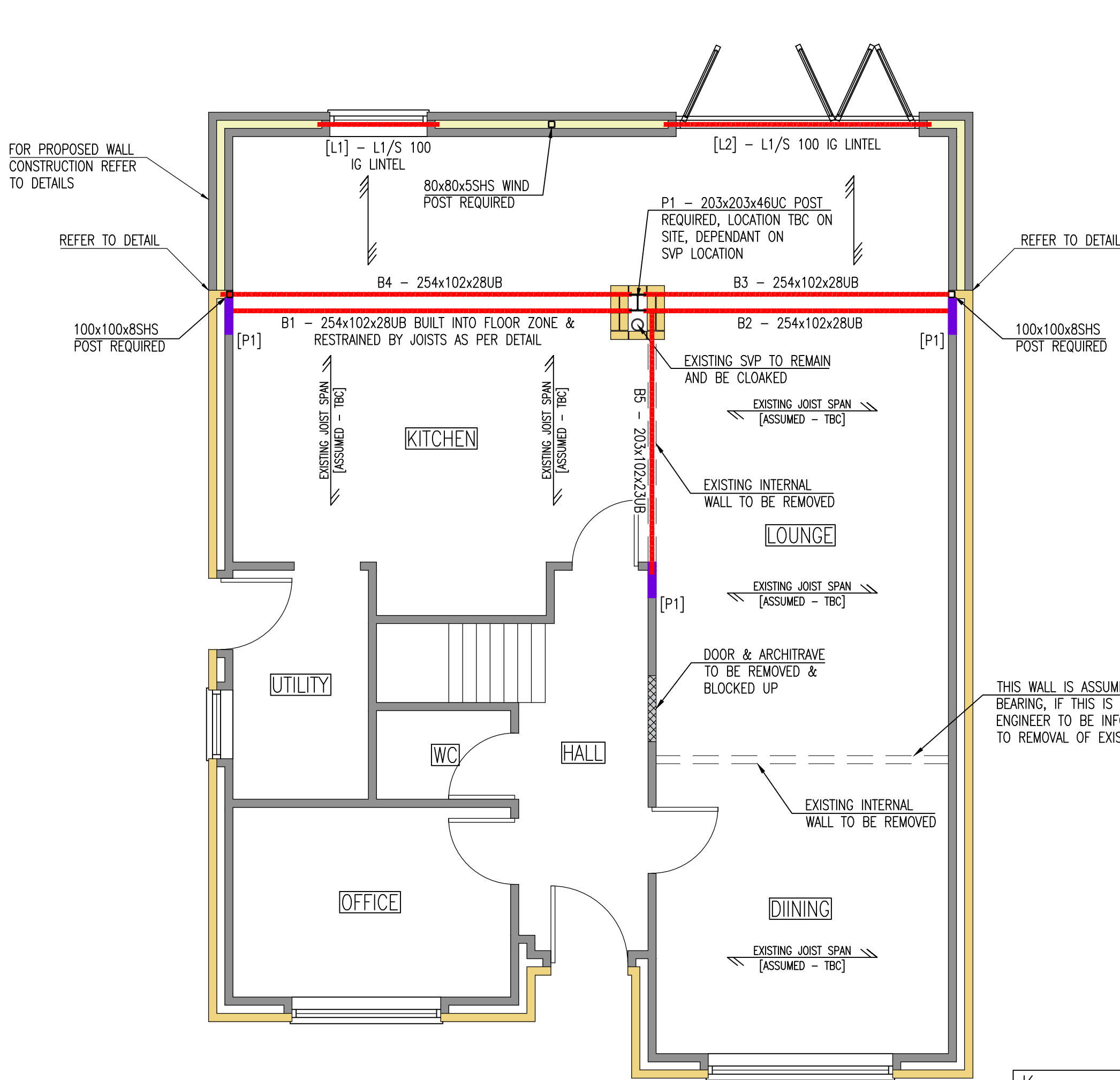
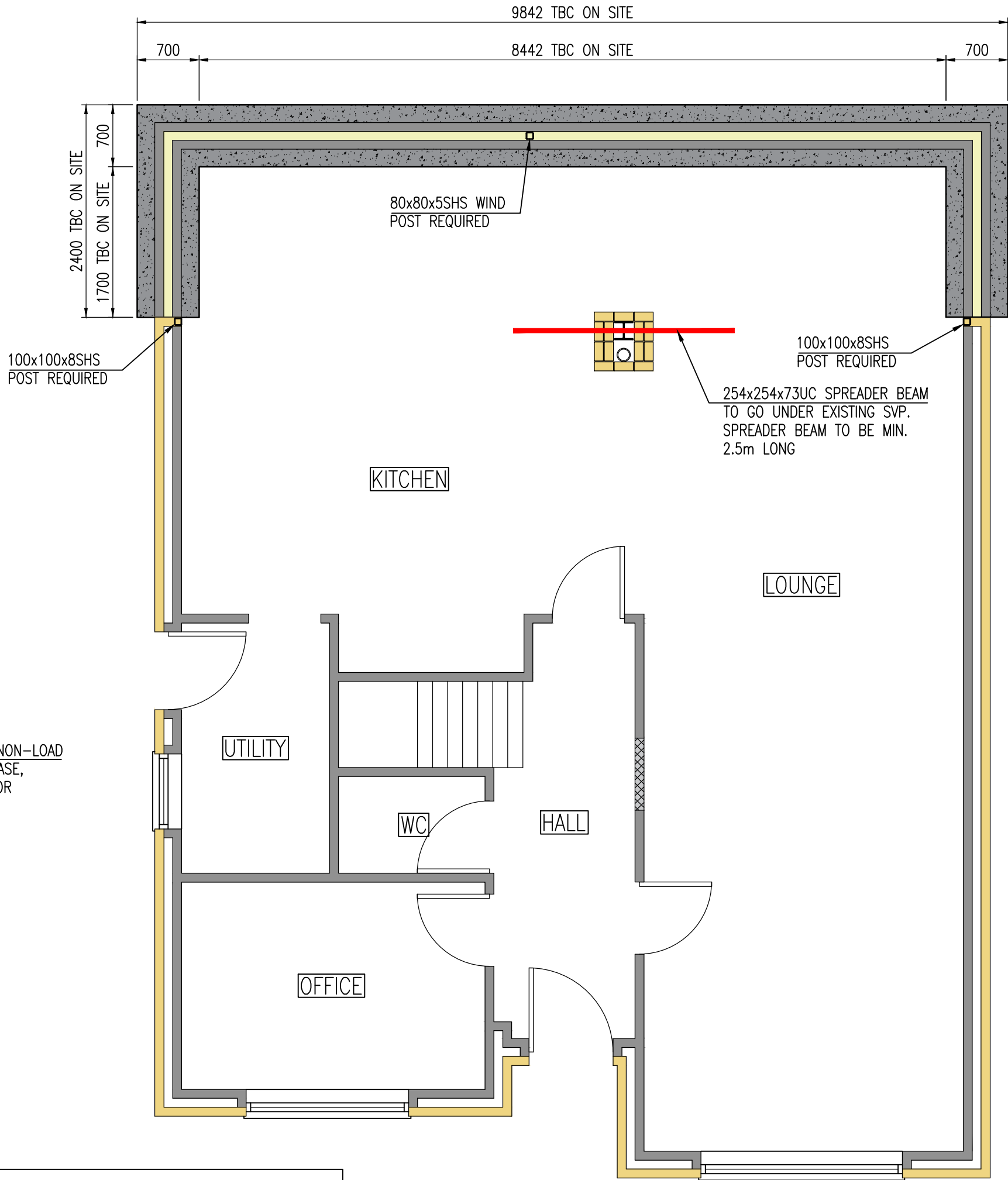
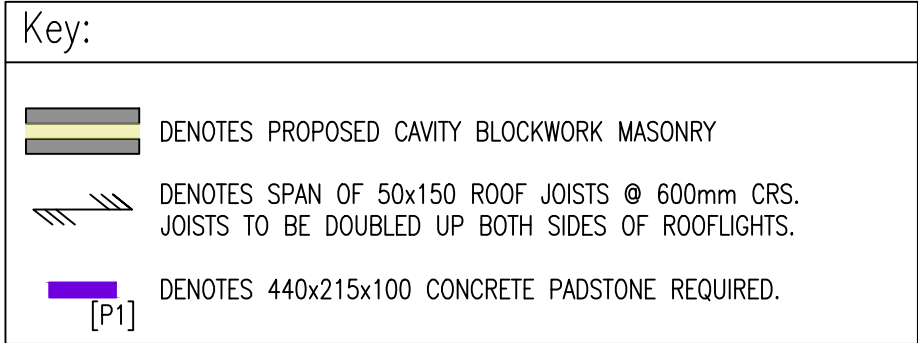
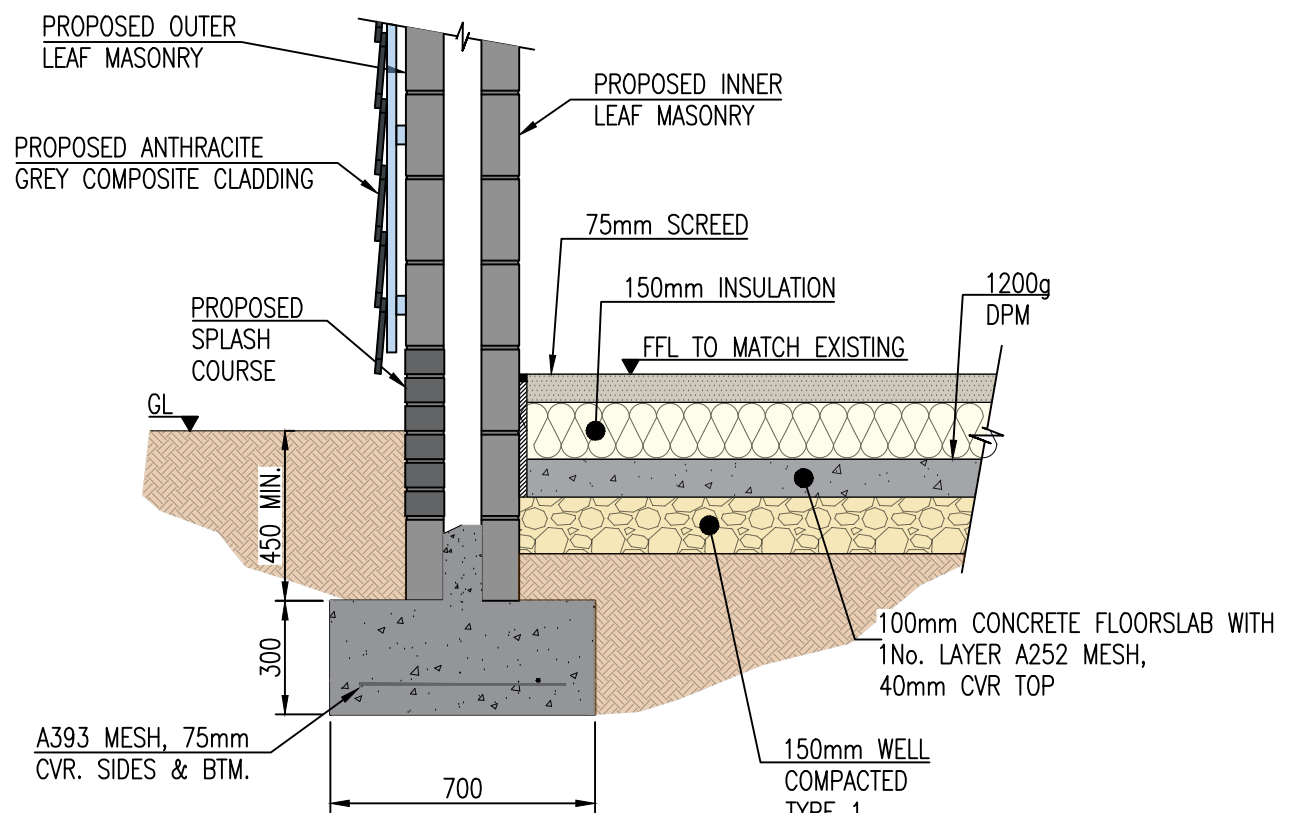




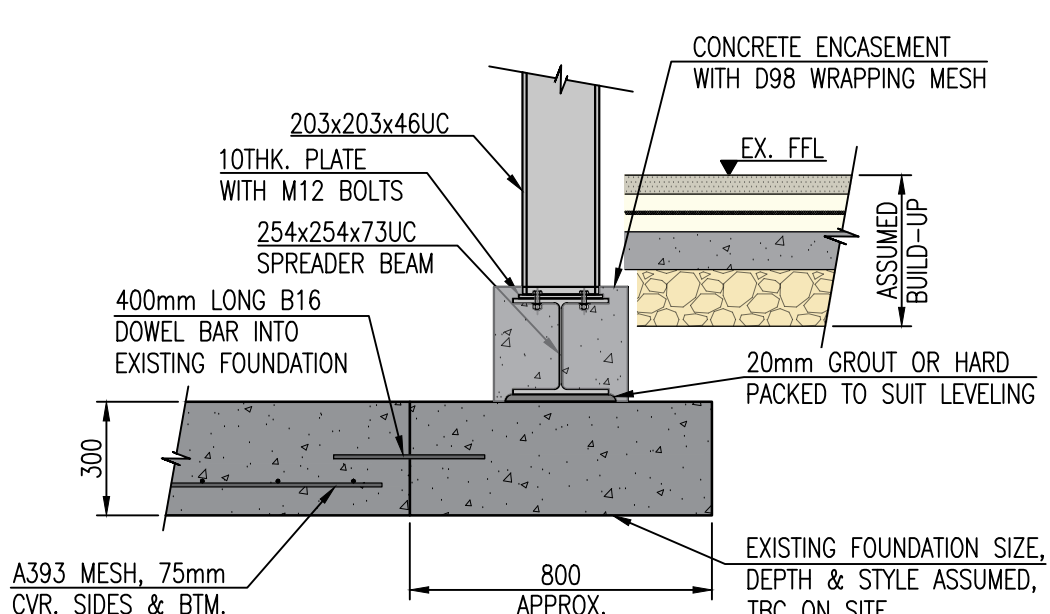
PROPOSED SUPERSTRUCTURE ARRANGEMENT
SCALE 1:50



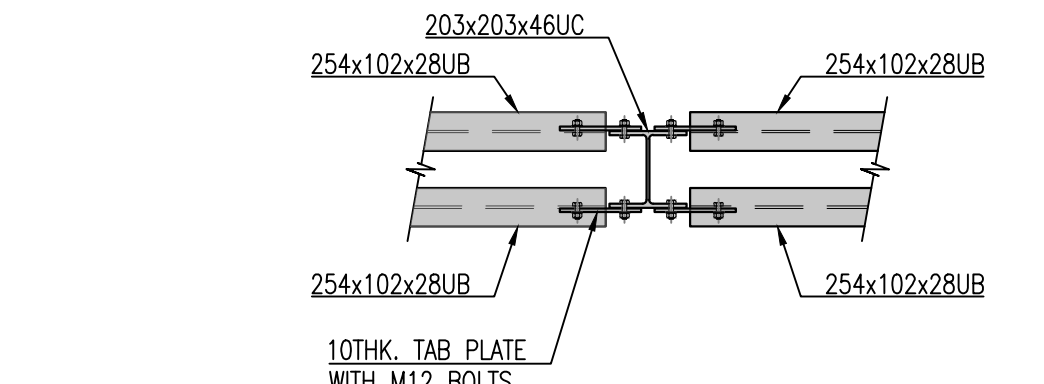
PROPOSED FOUNDATION ARRANGEMENT
SCALE 1:50



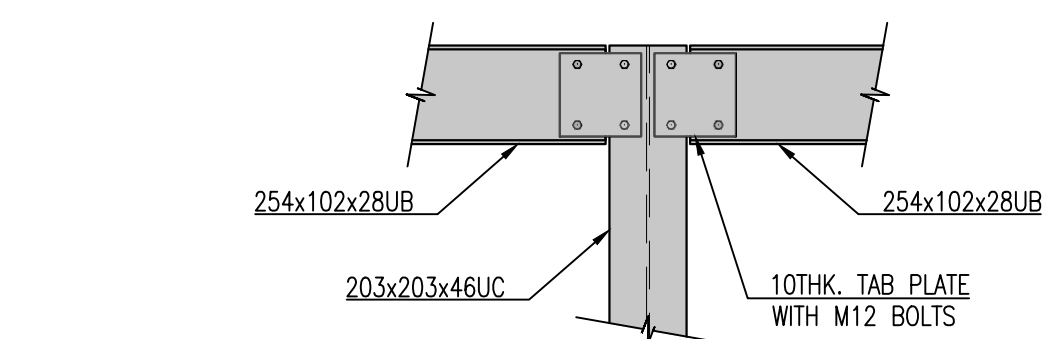
TYPICAL PERIMETER SECTION
SCALE 1:20



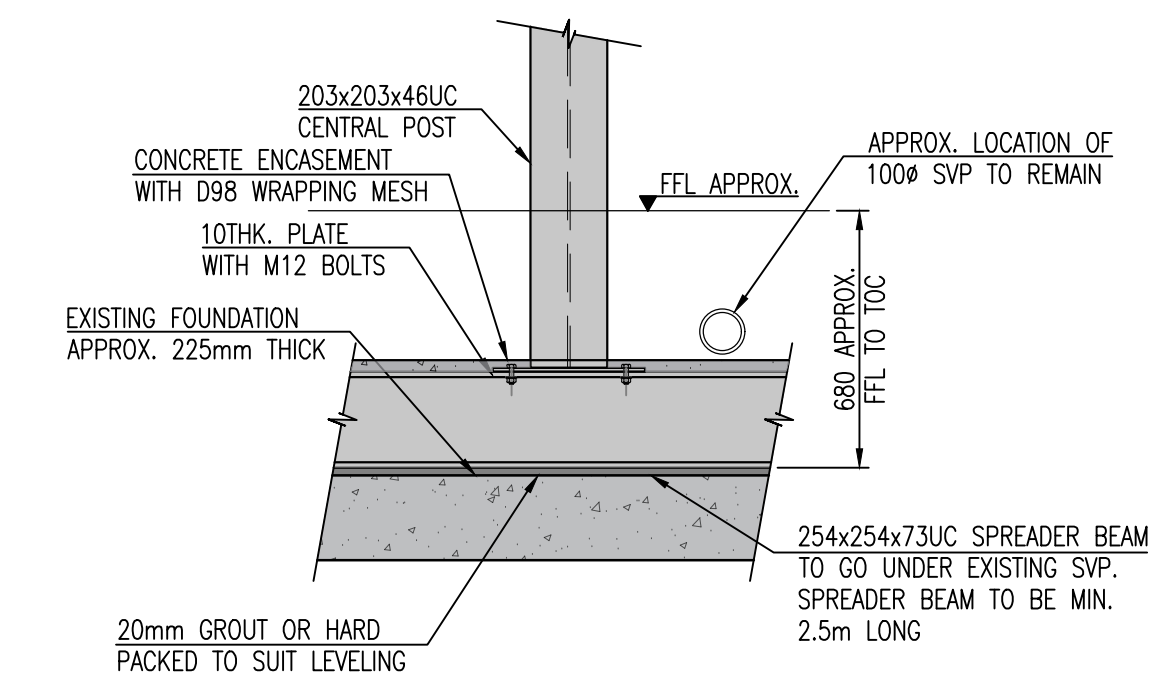
PROPOSED TO EXISTING FOUNDATION
SCALE 1:20



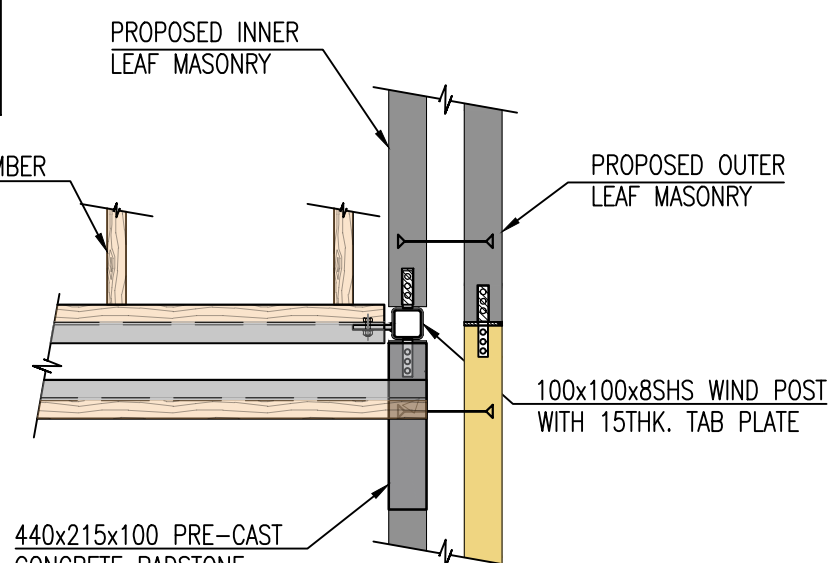
BEAM TO CENTRAL POST CONNECTION DETAIL
SCALE 1:20



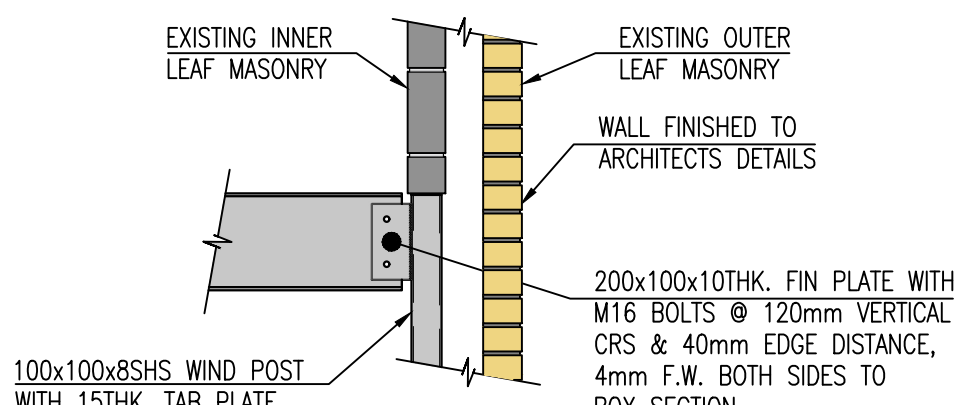
BEAM TO CENTRAL POST CONNECTION DETAIL
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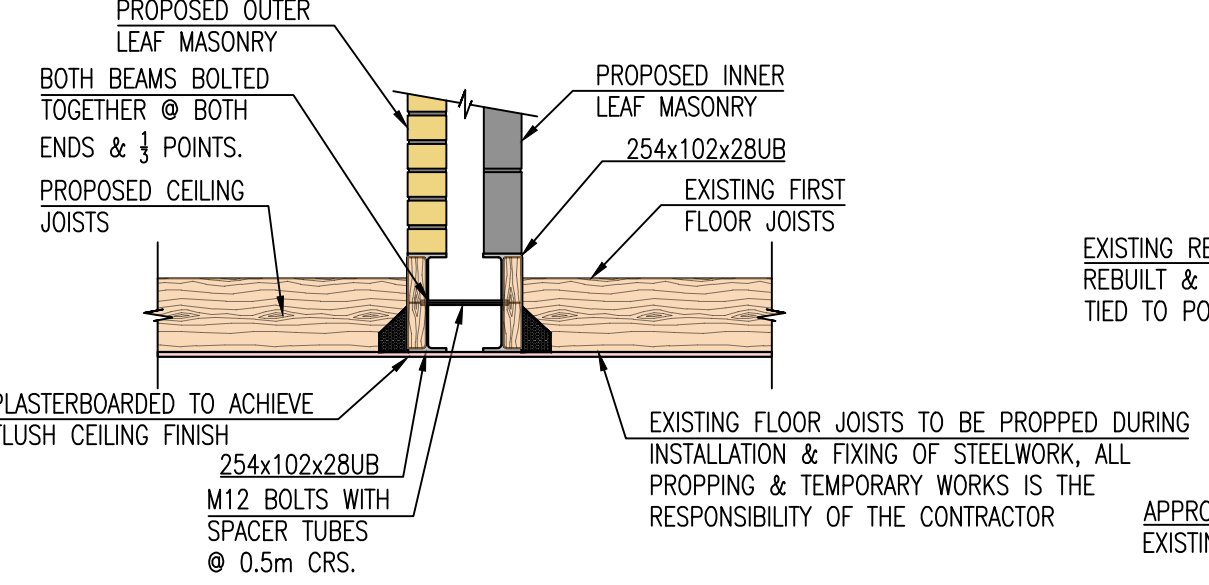
SPREADER BEAM TO EXISTING FOUNDATION
SCALE 1:20



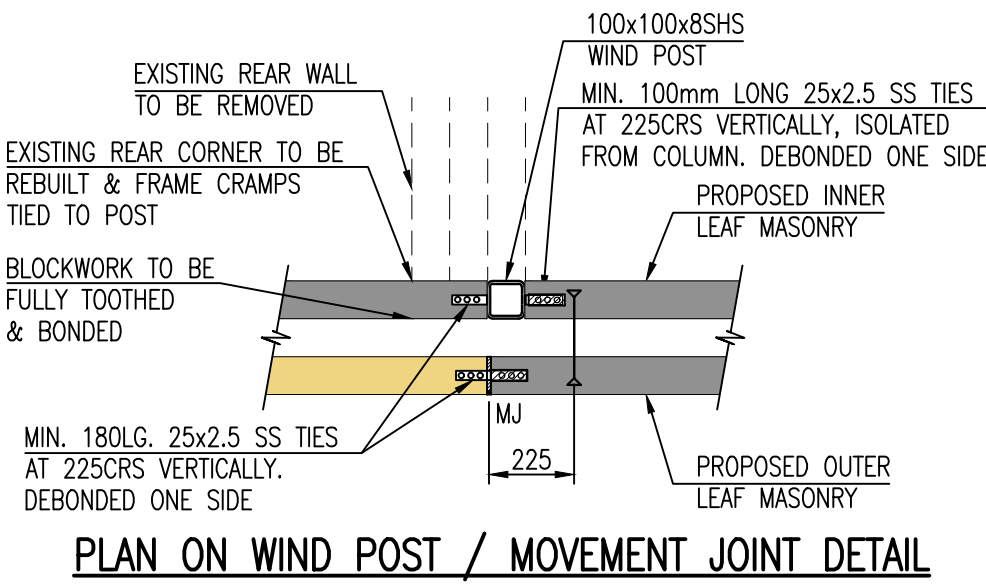
PLAN DETAIL ON POST



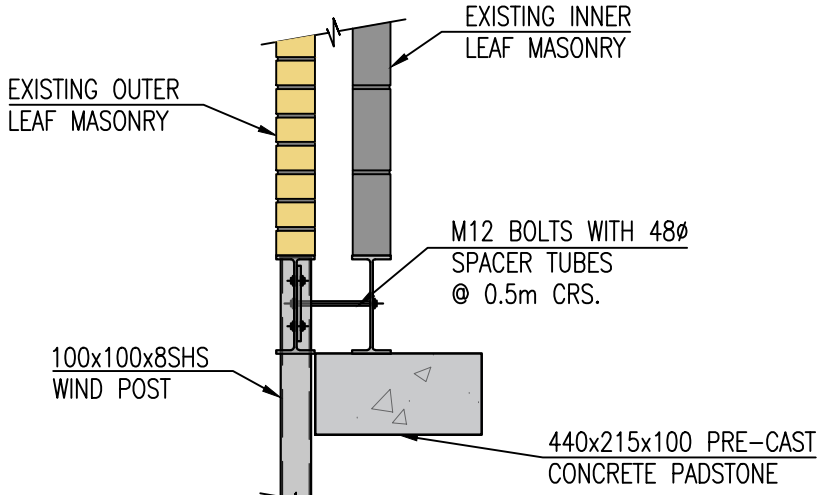
ELEVATION DETAIL ON POST



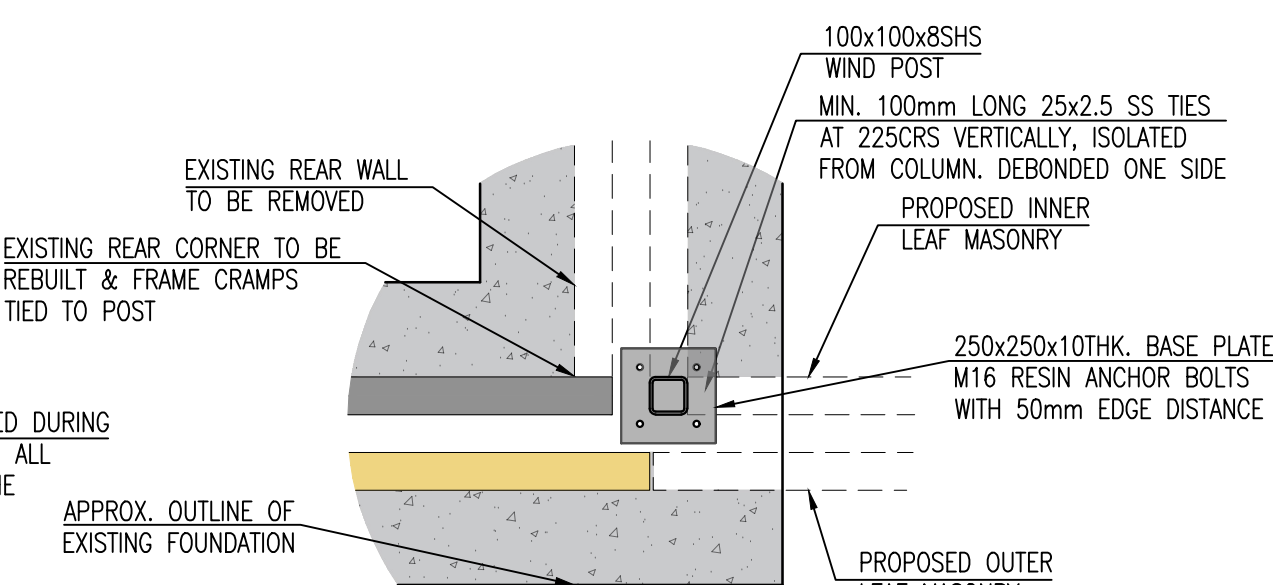
SECTION THROUGH BEAMS IN PROPOSED
OPENING IN EXISTING REAR WALL
SCALE 1:20



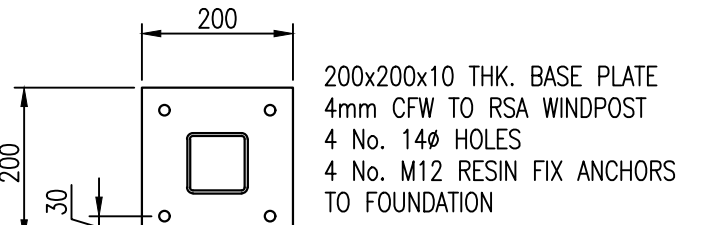
PLAN ON WIND POST / MOVEMENT JOINT DETAIL



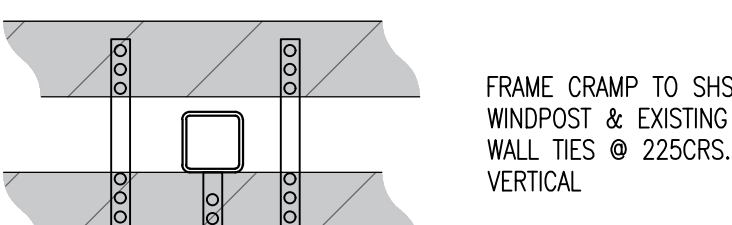
SECTION THROUGH BEAM
END BEARING



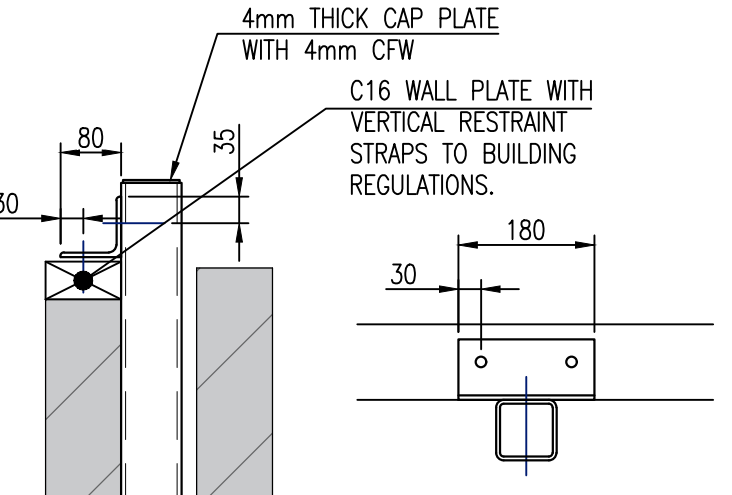
100x100x8SHS
WINDPOST BASEPLATE



WINDPOST BASE CONNECTION
SCALE 1:10



PLAN ON WINDPOST
SCALE 1:10



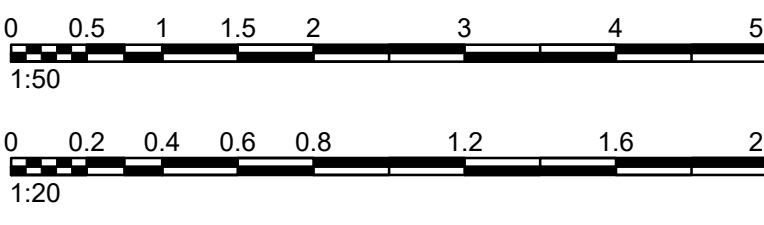
SECTION
WINDPOST HEAD
CONNECTION DETAIL
SCALE 1:10

GENERAL SPECIFICATION.

- For setting out of masonry refer to architect's drawings. All strip / base foundations are to be placed within undisturbed natural strata at a depth to be agreed with the Building Inspector.
- All topsoil and vegetation is to be stripped and removed from full building footprint.
- It is the contractors responsibility to report any condition found on site during excavation which, in any way, may affect the present design (such as dubious ground, existing foundations, drains, trees, pits and shafts, etc.)
- A 50mm blinding layer of lean mix concrete should be placed into the bottom of foundation excavations as soon as is practical. Should surface / ground water enter the excavations prior to blinding with concrete, then the bottoms are to be reformed to the satisfaction of the engineer.
- Reinforced concrete foundations to be minimum Grade C28/35 with a minimum O.P.C content of 300 Kg/m³ and a water cement ratio of 0.6
- Reinforcing bars (grade 460B), and Mesh Fabric to be High Yield Bar with a minimum yield strength of 460N/mm² in accordance with BS 4449, BS 4483 and BS 8666 respectively.
- Minimum lap to reinforcing bars to be 40 times bar dia.
- All concrete to be compacted using an immersion vibrator to expell trapped air and form a consistent dense material.
- No concrete to be poured if the ambient temperature is less than 5 degrees centigrade.
- All masonry to be constructed in mortar designation M4/(iii) to BS 5628. Movement joints and wall ties generally in accordance with architects details and details this dwg. Masonry lift must not exceed 1.5m per day.
- Blockwork below DPC: Concrete blocks to BSEN771 min compressive strength = 7.3N/mm². Blockwork above DPC: Concrete blocks to BSEN771 min compressive strength = 3.6N/mm². Brickwork to BSEN771 min grade F2.S1. Min compressive strength = 20N/mm². Max water absorption = 12%.
- Lightweight autoclaved blocks not to be used in structural masonry without prior agreement by engineer. Where lightweight blocks are used, construction to be in strict accordance with manufacturers details, including mortar specification and movement joint spacing
- Cavity wall construction to be tied with type 3 SS wall ties in accordance with PD6697 at a min density of 2.5/M2 or 4/M2 at unbonded edges
- Lintels to be installed as per manufacturer's instructions and details. Lintels and steel beams to have a Min bearing of 150mm unless perpendicular to wall or noted otherwise.
- All proprietary items to be installed in strict accordance with manufacturer's instructions.
- All structural steelwork to be grade S355 (hot rolled sections to BS4), except hollow sections to be grade S355J2H, fabricated delivered and erected in accordance with BS5950 and the national structural steelwork specification. Fabrication drawings and connections design details to be prepared by the fabricator (unless where supplied) and submitted to the engineer min 7 days prior to fabrication.
- All welds to comply with BS/NIS015614-1. All bolts to be high tensile grade 8.8 to BS3692. All bracing to be connected using min 2 bolts in line.
- Steelwork to be cleaned and shot blasted to SA 2.5 quality and apply post blast primer within 4 hours. Apply alkyl zinc phosphate primer to achieve min DFT = 75 micron and touched up on site.
- Steelwork below ground or permanently encapsulated within a cavity to receive two coats. R/W over primer (or similar approved) or to be galvanised in accordance with BS EN ISO 1461.
- Steelwork to be fabricated to exc class 2 in accordance with BS EN 1090.
- Fire protection to Architects details.

PLEASE REFER TO ARCHITECTS DRAWINGS FOR
CONFIRMATION OF ALL WALL/SETTING OUT
DIMENSIONS PRIOR TO COMMENCING OF WORKS

THIS DRAWING MUST BE READ IN CONJUNCTION
WITH ALL RELEVANT DRAWINGS & STRUCTURAL
CALCULATIONS



PRELIMINARY - FOR APPROVAL	JL	APW	24.07.23
DESCRIPTION	DRN	APP	DATE

SHIELDS WILSON
e: info@shieldswilson.co.uk t: 01775 729252
STRUCTURAL AND CIVIL ENGINEERING

STATUS FOR INFORMATION

CLIENT GRAHAM HYDE

PROJECT PROPOSED ALTERATIONS & EXTENSION
1 WILES AVENUE, MOULTON CHAPEL,
SPALDING, Lincs. PE12 0QB

TITLE PROPOSED SUPERSTRUCTURE ARRANGEMENT,
SECTIONS & DETAILS

DATE	JUL '23	SCALE	0A1	DRAWING NO.	REV.
DRAWN	JL	1:50	1:20	SW23-258-300	-