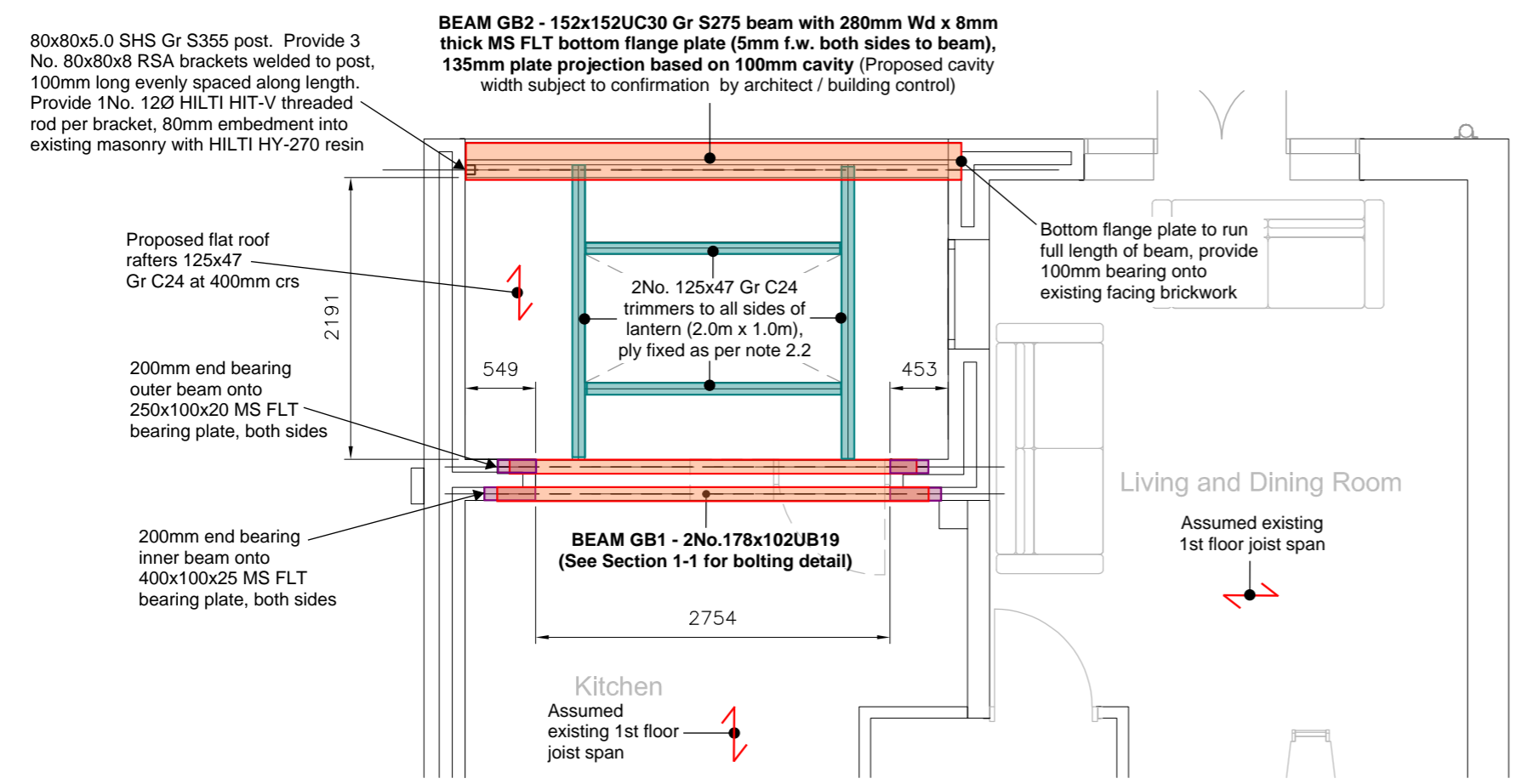


First issue - 2023.10.08



PROPOSED GROUND FLOOR PART-PLAN
SCALE 1:50 @ A3

Legend (requires colour to read)

- Proposed steel beam
- Proposed timber support bearer
- Proposed steel bearing plate
- A Steel connection type reference.
- Span direction of existing / proposed timber floor / roof structure

Construction (Design & Management) Regulations 2015 (CDM 2015) -

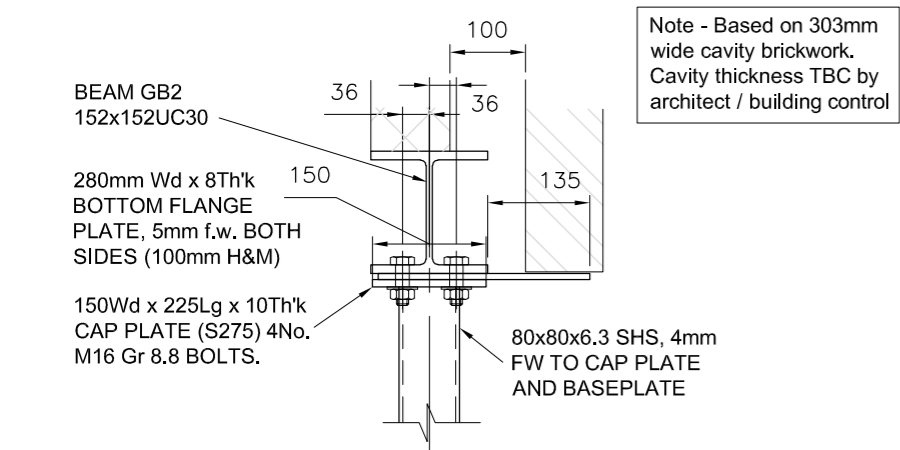
The CDM regulations 2015 are legislation that require certain health and safety criteria to be met for all aspects of construction work. For domestic clients, refer to the HSE website regarding roles and responsibilities:- <https://www.hse.gov.uk/construction/cdm/2015/domestic-clients.htm>

General Notes

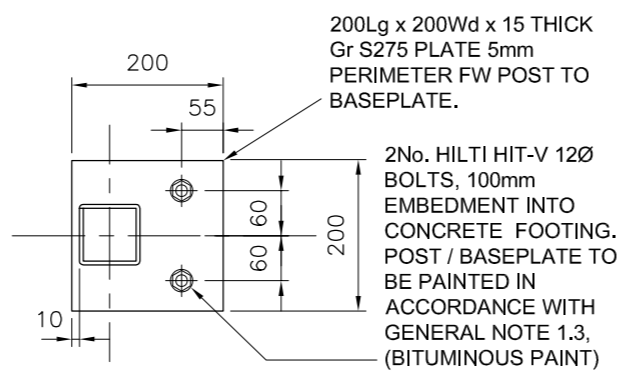
THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF ALL TEMPORARY WORKS TO ENSURE THE STRENGTH AND STABILITY OF THE BUILDING THROUGHOUT THE COURSE OF THE WORKS.

- 1.0 Steelwork**
- 1.1 All materials, fabrication, workmanship and erection of steelwork shall be in accordance with the National Structural Steelwork Specification for Building Construction, 7th edition as published by the British Constructional Steelwork Association.
 - 1.2 Site modifications to structural steelwork shall not be carried out unless prior approval has been obtained from the engineer.
 - 1.3 All structural steelwork shall be blast cleaned to b.S.7079: part a1, preparation grade Sa2½ and, except where specified as galvanised, shall be painted with a suitable good quality high build zinc phosphate primer to provide a dry film thickness of not less than 75 microns with 4 hours of cleaning. A prefabrication primer may be used at the fabricator's discretion. The contractor shall ensure that the primer used is compatible with subsequent coatings specified by others. (E.G. Intumescent paint). Steelwork in the wall cavity is to be painted with 2 coats of bituminous paint to a minimum thickness of 150 microns.
 - 1.4 All structural steelwork to be fire protected to architect's details.
 - 1.5 Scratched paintwork and all bolts are to be touched up after erection.
 - 1.6 All structural steelwork to be grade S275 U.N.O.

- 2.0 - Timber**
- 2.1 All timber members to be Grade C24 to BS.5268 UNO. Timber to be pressure impregnated with preservative and cut ends brush treated.
 - 2.2 All rafters shown doubled or tripled are to be bolted together at 450mm CRS using M10 black bolts with 50x3mm thick M/S washers to suit and 38Ø double sided toothed plate connectors UNO.
 - 2.3 Solid noggins or herringbone strutting to be provided between all timber joists or rafters as follows:
 - a) 2.5m to 4.0m span:- Mid-span and at each support.
 - b) Spans longer than 4.0m:- Two rows equally spaced in span and at end supports. Outer joists or rafters to be blocked solidly to perimeter walls.
 - 2.4 Lateral restraint straps for floors are to be 900mm long, 30x5mm galvanised M/S straps at 1200mm CRS with 150mm bob end. Straps perpendicular to joists to be screwed to tops of 3No. joists over solid blocking infill. Straps parallel to joists to be let into the top of joists and screwed in place.



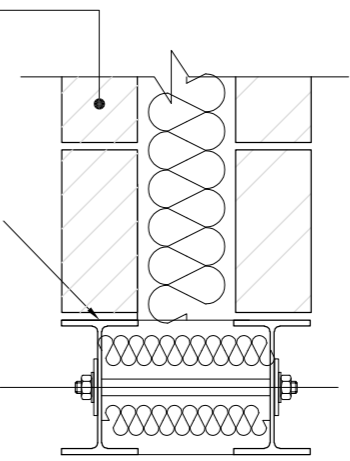
DETAIL A
SHS POST CAP PLATE CONNECTION TO BEAM GB2
SCALE 1:10



80x80x6.3 SHS POST
BASE BEARING PLATE DETAIL

EXISTING MASONRY CAVITY WALL, ASSUMED TO BE 100mm BLOCK INNER AND 102mm BRICK OUTER LEAVES, 100mm CAVITY - TO BE CONFIRMED BY CONTRACTOR

BEAM GB1, 2No. 178x102x19 UB BEAMS BOLTED TOGETHER WITH M16 THREADED BAR AND SLEEVE (MIN 22mm Ø INTERNAL) @ 450mm C/C. PROVIDE 75x75x5 SHIMS TO PREVENT BUCKLING



SECTION 1-1
(BEAM GB1 DOUBLE BEAM BOLTING DETAIL)
SCALE 1:10