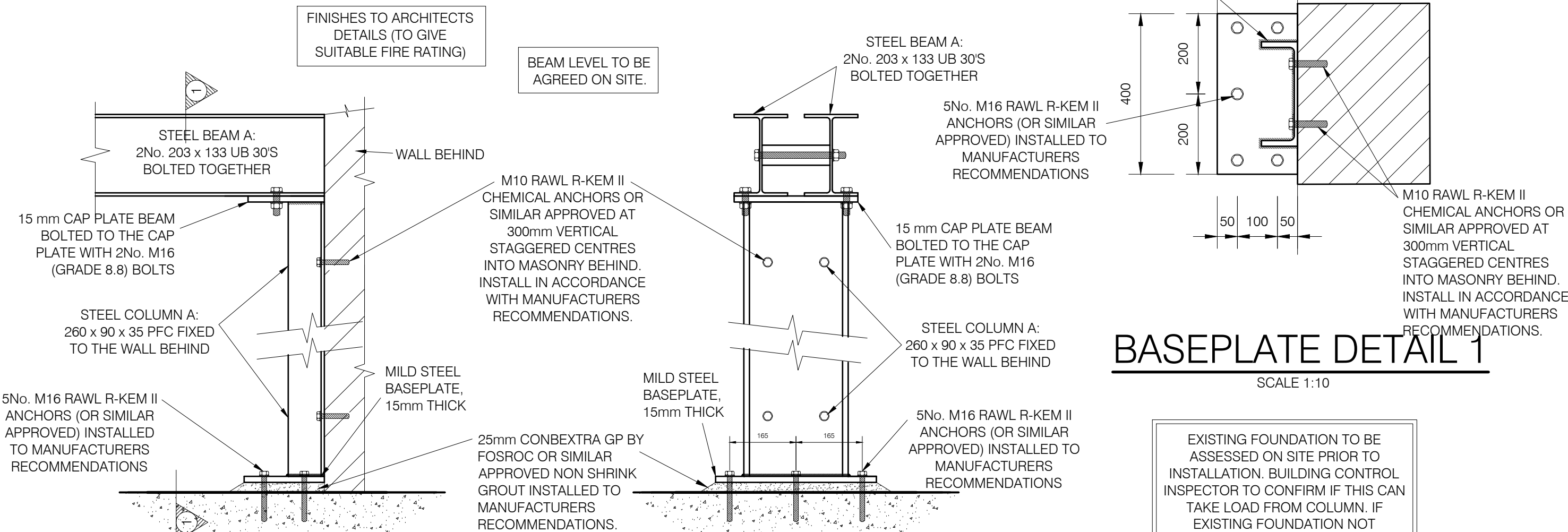


JOINT TYPE 'B' DETAIL

SCALE 1:10

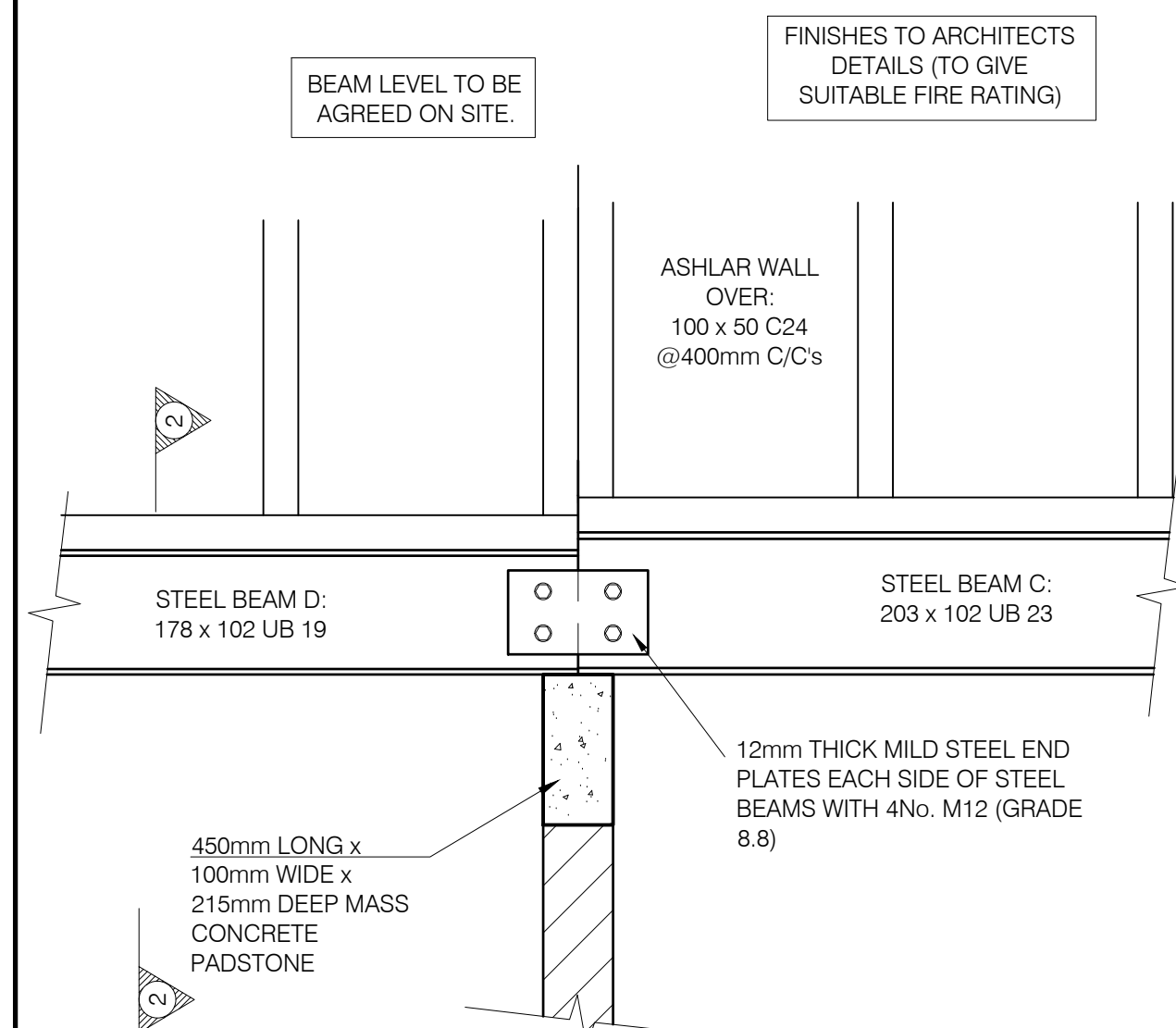
SECTION C-C

SCALE 1:10



BASEPLATE DETAIL 1

SCALE 1:10

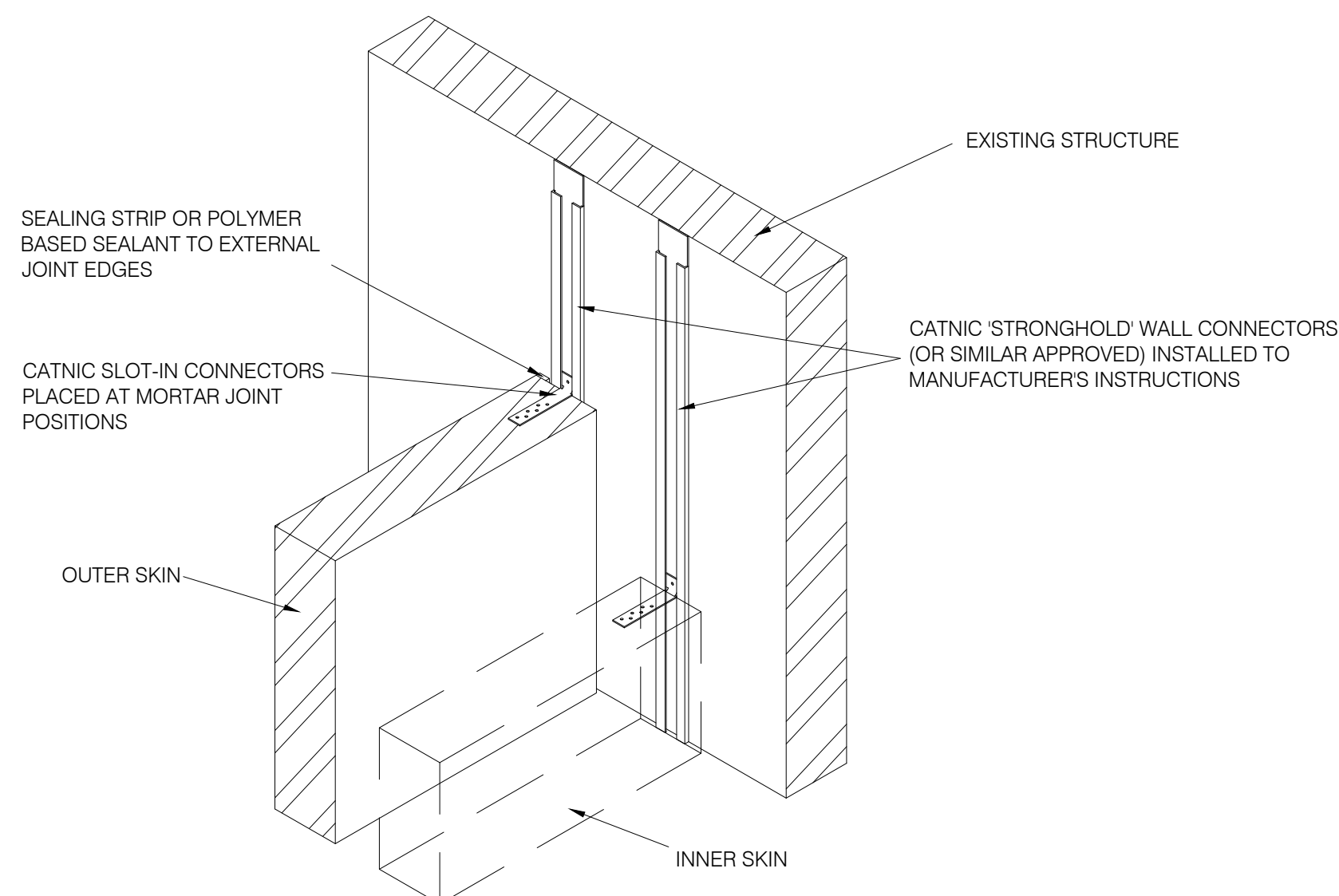


SECTION 2-2

SCALE 1:10



SCALE 1:10



RAFTERS: 200 x 50 C24 @400mm C/C's

ASHLAR TIMBER
STUD WALL: 100 x 50 C24 @400mm C/C's

STORAGE SPACE ONLY

CEILING JOISTS: 175 x 50 C24 @400mm C/C's

STEEL BEAM C: 203 x 102 UB 23

RAFTERS: 200 x 50 C24 @400mm C/C's

ASHLAR TIMBER
STUD WALL: 100 x 50 C24 @400mm C/C's

STEEL BEAM C: 203 x 102 UB 23

FINISHES TO ARCHITECT'S DETAILS

SECTION B-B

SCALE 1:20

FINISHES TO ARCHITECTS DETAILS

SCALE 1:20

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, DETAILS, SCHEDULES AND SPECIFICATIONS. R.C.A. TO BE NOTIFIED IF ANYTHING ON SITE IS DIFFERENT TO THIS DRAWING. DO NOT SCALE FROM THIS DRAWING. ALL DIMENSIONS TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF WORKS. ALL TEMPORARY WORKS TO CONTRACTORS DETAILS AND DESIGN.

BLACKWORK DETAILS (UNLESS NOTED OTHERWISE) :-

a) BELOW DPC BLACKWORK TO BE IN MORTAR DESIGNATION (i) IN ACCORDANCE WITH BS EN 1996, CEMENT : SAND 3:1.

b) ABOVE DPC BLACKWORK TO BE IN MORTAR DESIGNATION (iii) IN ACCORDANCE WITH BS EN 1996, CEMENT : SAND WITH PLASTICIZER 1 : 5 to 6. ALL MASONRY TO BE INSTALLED IN ACCORDANCE WITH BS EN 1996.

- c) BLOCKWORK HAS BEEN DESIGNED TO HAVE A MAXIMUM DENSITY OF 1400kg/M³. RCA TO ADVISE IF DENSE BLOCKS ARE REQUIRED.
- d) INNER SKIN TO EXTERNAL WALLS TO BE 100mm UNLESS NOTED OTHERWISE.
- e) MOVEMENT JOINTS IN MASONRY REQUIRED ABOVE D.P.C. LEVEL TO BS EN 1995. ANY JOINTS SHOWN ON PLAN ARE INDICATIVE ONLY, LOCATIONS TO BE AGREED - USE MINIMUM 12m c/c IN BRICKWORK (6m FROM CORNERS) AND 6m c/c IN BLOCKWORK (3m FROM CORNERS).
- f) TO BE INSTALLED AND SPECIFIED TO DD140 AND NHBC STANDARDS, WHERE TIES REQUIRED FOR 125mm CAVITY, USE ANCON ST1 TIES OR SIMILAR APPROVED.
- g) NO INDIVIDUAL BLOCK TO WEIGH MORE THAN 20kg FOR HEALTH & SAFETY PURPOSES. RCA TO BE CONSULTED SHOULD HEAVIER BLOCKS BE REQUIRED

3. LINTELS

LINTELS INSTALLED IN ACCORDANCE WITH BS5977. ALL LINTELS TO BEAR 150mm WHERE POSSIBLE. 'CG70/100' REFERS TO CATNIC LINTEL REFERENCE. LINTELS SHOWN ARE A GUIDE ONLY AND SHOULD BE CONFIRMED BY LINTEL MANUFACTURER PRIOR TO INSTALLATION. SPECIFIED LINTELS TO BE CHECKED FOR CAVITY SIZE BY CONTRACTOR OR CLIENT PRIOR TO ORDERING.

4. STEELWORK
ALL STEELWORK TO BE GRADE S 355 JR (WHERE INTERNAL) AND S 355 JO (WHERE EXTERNAL) IN ACCORDANCE WITH BS EN 10025. ALL HOLLOW SECTIONS TO BE HOT ROLLED GRADE S355 "CELSIUS" UNLESS NOTED OTHERWISE. ALL STEELWORK TO BE INSTALLED IN ACCORDANCE WITH BS EN 1993. ECCENTRICALLY LOADED BEAMS TO HAVE ENDS FULLY BUILT IN PRIOR TO FLOORWALL LOADING FROM ABOVE. TEMPORARY PROPPING MAY BE


REQUIRED WHERE ECCENTRIC LOADS OCCUR. IF IN ANY DOUBT PLEASE CONTACT RCA. STEELWORK ABOVE GROUND TO BE FINISHED TO GIVE CORRECT FIRE RATING TO CURRENT BUILDING REGULATIONS. ALL EXTERNAL/EXPOSED STEELWORK TO BE GALVANISED. GENERALLY STEELWORK TO BE FINISHED WITH ZINC PHOSPHATE PRIMER. ALL BOLTS TO BE GRADE 8.8 UNLESS STATED OTHERWISE. ALL CONNECTIONS TO BE INSTALLED IN ACCORDANCE WITH BS EN 1993. ALL STEEL BEAMS TO SIT ON 450 x WALL THICKNESS x 215 DEEP CONCRETE PADSTONES UNLESS NOTED OTHERWISE. PADSTONES TO BE MINIMUM 21.0N/mm² CONCRETE. BEAMS TO BEAR 150mm WHERE POSSIBLE. WHERE HOLDING DOWN BOLTS MAY BE REQUIRED, RCA TO ADVISE. LONGER BEAMS MAY REQUIRE SPLICING TO ENABLE SAFE HANDLING - RCA TO BE CONTACTED SHOULD SPLICE CONNECTION BE REQUIRED. SITE MEASUREMENTS TO BE TAKEN BY CONTRACTOR PRIOR TO ORDERING OF STEEL.

5. **TIMBER**
ALL TIMBER TO BE INSTALLED IN ACCORDANCE WITH BS EN 1995 AND NHBC STANDARDS. LATERAL RESTRAINT STRAPS REQUIRED TO WALLS PARALLEL TO JOISTS AND TIMBER ROOF SPANS. STRAPS TO BE AT MAXIMUM 1.2m C/C APART AND FIXED TO MINIMUM OF 3 NO. JOISTS. ALL STRAPS INSTALLED TO BS EN 1995 TO BE LOGIC TO BE USED WHERE JOISTS ARE NOTCHED INTO STEEL BEAMS. ALL JOISTS TO BE DOUBLED UNDER PARTITIONS U.N.O. HERRINGBONE STRUTTING/SOLID BLOCKING REQUIRED PERPENDICULAR TO JOIST SPANS AS FOLLOWS:-

Up to 2.5m Span	None Required
2.5m - 4.5m Span	1 row required mid span
Over 4.5m Span	2 rows required equally spaced

6. PRECAST CONCRETE
PRECAST FLOOR UNIT DESIGN TO BE UNDERTAKEN BY MANUFACTURER.
PLEASE REFER TO ARCHITECTS/BUILDING SERVICES DRAWINGS FOR
LOCATIONS OF SERVICE HOLES THROUGH PRECAST FLOOR. STAIR LOADS TO
BE SUPPORTED ON P.C.C. UNITS. "BAT" RESTRAINT STRAPS OR SIMILAR
APPROVED AT MAXIMUM 1.2m CENTRES SHALL BE SECURELY FIXED TO
PRECAST UNITS AT EACH FLOOR LEVEL PRIOR TO CONSTRUCTION OF THE
NEXT STOREY OF MASONRY WALLS.

CDM REGULATIONS 2017.
MEMBER SIZES AND DIMENSIONS HAVE BEEN DESIGNED IN ORDER TO SATISFY THE DESIGN REQUIREMENTS OF THE PROJECT. CONTRACTOR SHOULD BE AWARE OF RISKS ASSOCIATED WITH HANDLING AND INSTALLATION OF STRUCTURE WHICH CANNOT BE REMOVED AT THE DESIGN LOCATION. CONTRACTOR MUST BE SUITABLY EXPERIENCED IN ALL ASPECTS OF HANDLING AND LIFTING. ALL TEMPORARY WORKS MUST COMPLY WITH CURRENT LEGISLATION. REFERENCE MUST ALWAYS BE MADE TO THE SEPARATE RCA RISK ASSESSMENT DOCUMENT.

 CLOUDED ITEMS WITH TAG INDICATES LATEST REVISIONS TO DRAWING.
PLEASE NOTE THAT ADDITIONAL CHANGES MAY BE NOTED IN THE REVISION
BOX BELOW.

A	01/05/19	C.Silva	Structural Details revised to suit Steel Beam C revision.	
Rev.	Date	By	Description	App.

Project

Lemsford Village Hall,
Lemsford,
Welwyn Garden City,
Herts

Title	Structural Details
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Scale	1:20 & 1:10 @ A1	Drawn By	C. Silva
Date	Apr - 2019	Approved	I.D.



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**Institution
of Structural
Engineers**

DRG No. 20655/03

Rev. "A"