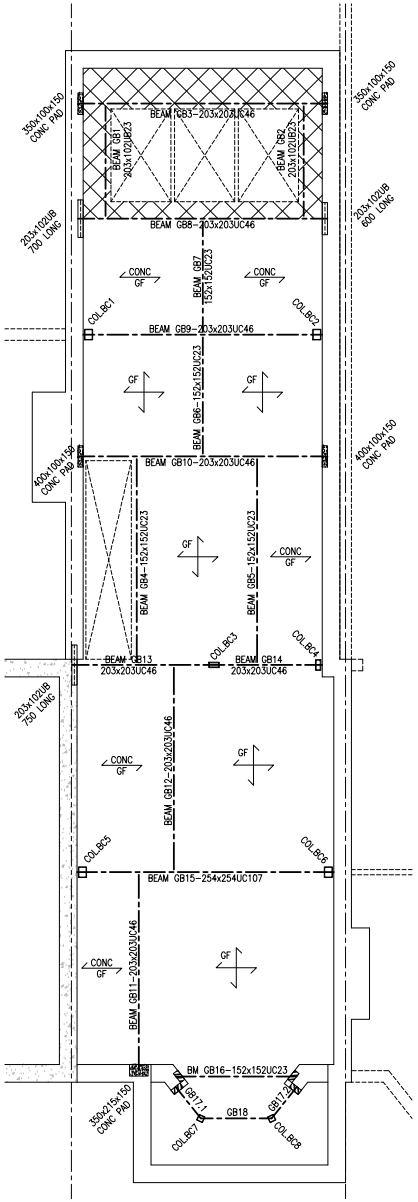


PROPOSED BASEMENT FLOOR PLAN
SCALE 1:50

CONC GF — INDICATES DIRECTION OF SPAN OF 152x152 UC23 BEAMS TO SUPPORT EXISTING CONCRETE GROUND FLOOR, SPACED AT NOT MORE THAN 600mm CENTRES AND NOT MORE THAN 200mm FROM EXISTING WALLS.

GF — INDICATES BEAMS TO REPLACE EXISTING SLEEPER WALLS IF REQUIRED. PROVIDE 152x152 UC23 BEAMS FOR SPANS UP TO 4.0m AND 152x152 UC30 BEAMS FOR SPANS UP TO 5m.

INDICATES 150 THICK 35N CONCRETE SLAB CAST ONTO 51/0.9 S350 PROFILED METAL DECKING AND REINFORCED WITH A252 MESH TOP (25mm COVER) AND 1-H10 BAR IN EACH TROUGH (50mm COVER) AND H10-300 LACER BARS.

INDICATES SINGLE ENGINEERING BRICK AS PADSTONE

ALL WALLS SHALL BE STRAPPED TO FLOOR JOISTS WITH 30x5 GALVANISED MILD STEEL STRAPS AT NOT MORE THAN 2000mm CENTRES. WHERE A WALL IS PARALLEL WITH THE JOISTS, EACH STRAP SHALL BE FIXED TO A MINIMUM OF 3 JOISTS AND SOLID NOGGINS SHALL BE PROVIDED AT STRAP POSITIONS, BETWEEN EACH JOIST AND BETWEEN WALL AND THE FIRST JOIST.

PROVIDE SOLID TIMBER NOGGINS TO NEW AND EXISTING JOISTS. NOGGINS SHALL NOT BE LESS THAN 38mm WIDE AND AT LEAST THREE QUARTERS OF JOIST DEPTH WITH 1 ROW CENTRALLY FOR JOIST SPANS LESS THAN 4.5m AND WITH 2 ROWS AT THIRD SPAN POINTS FOR JOIST SPANS GREATER THAN 4.5m.

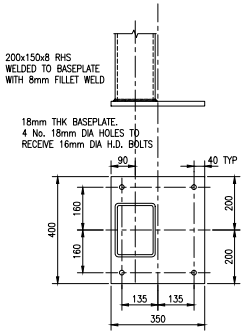
NOTE:
THE ANTICIPATED DEFLECTION IN LONGER SPAN BEAMS HAS BEEN MINIMISED BY DESIGN BUT CAN STILL BE SIGNIFICANT ENOUGH TO CAUSE DAMAGE TO THE SUPPORTED STRUCTURE.

IN ORDER TO REDUCE THIS EFFECT THE BEAMS SHOULD BE PRE-CAMBERED BY THE MANUFACTURER.

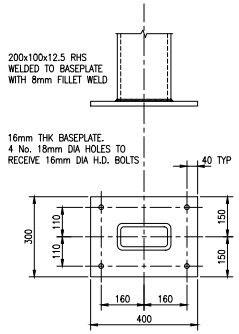
ALTERNATIVELY THE BEAM CAN BE PRE-LOADED ON SITE PRIOR TO PACKING BETWEEN THE BEAM AND THE STRUCTURE ABOVE AND THE SUBSEQUENT REMOVAL OF THE TEMPORARY PROPPING.

FRONT BAY
BEAMS GB17 & GB18 TO BE 152x152 UC23 SECTIONS WITH 10mm THICK STEEL PLATE WELDED TO TOP FLANGE AND WIDTH OF PLATE TO SUIT THICKNESS OF SUPPORTED WALL.

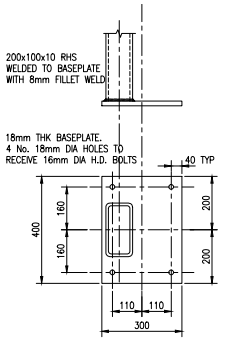
PROVIDE 300x300x10 STEEL CAP PLATE WELDED TO SECTION WITH 4No.M12 LOCATING BOLTS. PLATE CUT TO SUIT SPLAY OF BAY.



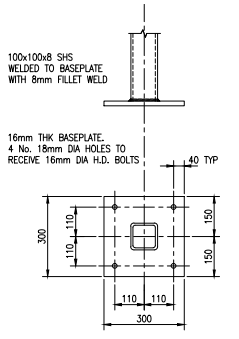
COLUMNS BC1, BC2, BC5 & BC6
SCALE 1:10



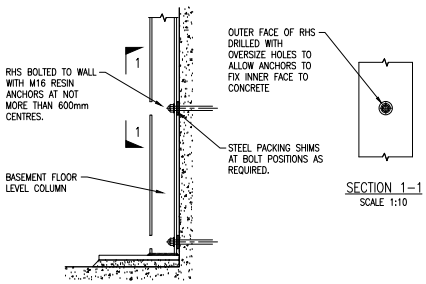
COLUMN BC3
SCALE 1:10



COLUMN BC4
SCALE 1:10



COLUMN BC7 & BC8
SCALE 1:10



SECTION 1-1
SCALE 1:10

COLUMN FIXING TO UNDERPIN STEM
SCALE 1:10

STRUCTURAL STEELWORK

1. ALL STRUCTURAL STEELWORK SHALL BE MILD STEEL AND PAINTED WITH 1 COAT OF RED OXIDE AT THE FABRICATION WORKS AND 1 COAT ON SITE AFTER ERECTION, EACH COAT WITH A DRY FILM THICKNESS OF NOT LESS THAN 50 MICRONS. STEELWORK TO BE ENCASED IN CONCRETE SHALL BE UNPAINTED.
2. ALL STEELWORK CONNECTION DESIGNS AND FABRICATION DETAILS SHALL BE PREPARED BY THE APPOINTED SPECIALIST STEELWORK CONTRACTOR UNLESS OTHERWISE NOTED.
3. UNLESS NOTED OTHERWISE THIS PROJECT SHALL BE CONSIDERED AS EXECUTION CLASS EXC2 TO BS EN 1090-2 FOR THE STRUCTURE, THE COMPONENTS AND THE DETAIL.
4. ALL FABRICATED STEELWORK DELIVERED TO THE SITE SHALL BE CE MARKED AND THE STEELWORK SUPPLIER/MANUFACTURER SHALL HAVE EXC2 CAPABILITY OR HIGHER.

NOTES

1. THIS DRAWING REMAINS THE COPYRIGHT OF MMP DESIGN AND IS NOT TO BE COPIED, ALTERED OR CHANGED WITHOUT PERMISSION.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
3. DO NOT SCALE OFF THIS DRAWING.
4. ALL TEMPORARY WORKS SHALL BE THE RESPONSIBILITY OF THE MAIN CONTRACTOR BUT SHOULD ADVICE BE GIVEN BY THE ENGINEER, NO RESPONSIBILITY WILL BE ACCEPTED UNLESS THE ADVICE IS CONFIRMED IN WRITING BY THE CONTRACTOR PRIOR TO THE WORKS BEING CARRIED OUT
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE EXISTING STRUCTURE AND EARTHWORKS ON THE SITE AND ADJOINING SITES AND MUST TAKE ALL NECESSARY PRECAUTIONS TO SAFEGUARD THIS. ADEQUATE SHORING SHALL BE INSTALLED DURING THE WORKS TO ENSURE STABILITY OF THE STRUCTURE AND SUCH SHORING IS TO BE ADEQUATELY FOUNDED.
6. ANY DEVIATION FROM THE DETAILS SHOWN MUST BE NOTIFIED TO THE ENGINEER BY THE CONTRACTOR IN WRITING BEFORE BEING CARRIED OUT.
7. THE LOCAL AUTHORITY'S BUILDING INSPECTOR AND THE ENGINEER ARE TO BE INFORMED BY THE CONTRACTOR IN WRITING AT LEAST 48 HOURS PRIOR TO THE WORKS STARTING ON SITE AND THEIR AGREEMENT OBTAINED THAT WORK CAN COMMENCE.
8. FIRE PROTECTION TO ALL STRUCTURAL MEMBERS SHALL ACHIEVE NOT LESS THAN A 1 HOUR STANDARD.
9. ALL NEW STRUCTURAL TIMBER SHALL BE GRADE SC4 (OR C24) TO BS. 4978 UNLESS OTHERWISE NOTED AND SHALL BE TREATED WITH AN APPROVED TIMBER PRESERVATIVE, INCLUDING CUT ENDS AND NOTCHES.
10. THE CONCRETE MIX FOR PADSTONES SHALL BE A 1:4 MIX.
11. BRICKWORK SHALL BE CONSTRUCTED USING BRICKS WITH A MINIMUM CRUSHING STRENGTH OF 27.5N/mm² AND BLOCKWORK SHALL BE CONSTRUCTED USING BLOCKS WITH A MINIMUM CRUSHING STRENGTH OF 4.0N/mm² UNLESS OTHERWISE NOTED. ALL MASONRY SHALL BE LAID IN CLASS (iii) MORTAR.

Rev.	Revision	Date

Client

Project
59 SOLENT ROAD
LONDON
NW6 1TY

Title
PROPOSED NEW BASEMENT AND STRUCTURAL ALTERATIONS
STRUCTURAL DETAILS – SHEET 2

Drawing Status:
BUILDING REGULATIONS

Date:	MAR/2016	Drawn by:	AFB
Scales:	AS NOTED AT A1	Checked:	

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Job No.	Drg. No.	Rev.
4580	02	