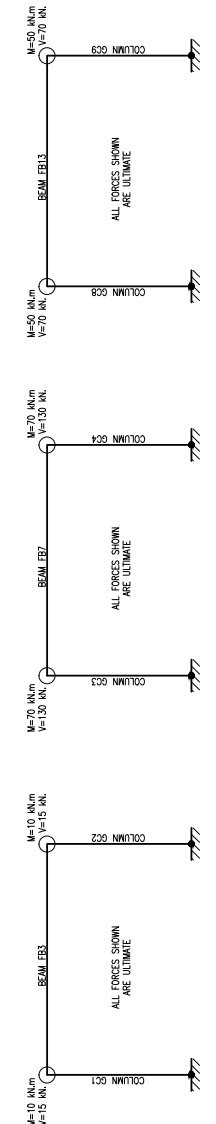


NOTES

- THIS DRAWING REMAINS THE COPYRIGHT OF MMP DESIGN AND SHALL NOT BE REPRODUCED, ALTERED OR CHANGED WITHOUT PERMISSION. OTHERWISE NOTED.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
- DO NOT SCALE OFF THIS DRAWING.
- ALL TEMPORARY WORKS SHALL BE THE RESPONSIBILITY OF THE MAIN CONTRACTOR AND NOTED TO THE CONTRACTOR PRIOR TO THE WORKS BEING CARRIED OUT.
- 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 ENSURE THAT ADEQUATE SHORING SHALL BE INSTALLED DURING THE WORKS TO ENSURE STABILITY OF THE EXISTING STRUCTURE. SHORING IS TO BE ADEQUATELY FRAMED.
- ALL DEVIATION FROM THE DETAILS SHOWN MUST BE APPROVED BY THE ENGINEER. THE CONTRACTOR IS WRITING BEFORE BEING CARRIED OUT.
- THE LOCAL AUTHORITY'S BUILDING INSPECTOR AND THE ENGINEER ARE TO BE INFORMED BY THE CONTRACTOR PRIOR TO THE WORKS BEING CARRIED OUT AT THE WORKS. A RECORD OF THE WORK CAN COMMENCE.
- FIRE PROTECTION TO ALL STRUCTURAL MEMBERS SHALL ACHIEVE NOT LESS THAN A 1 HOUR STANDARD.
- ALL NEW STRUCTURAL TIMBER SHALL BE GRADE S4 (OR C24) TO BS 4978 UNLESS OTHERWISE NOTED. ALL TIMBER SHALL BE TREATED WITH AN APPROVED TIMBER PRESERVATIVE, INCLUDING OUT ENDS AND NOTCHES.
- THE CONCRETE MIX FOR PADESTONES SHALL BE A 1:4 MIX.
- BROCKWORK SHALL BE CONSTRUCTED USING OF 7.5N/mm<sup>2</sup> AND BLOOMWORK SHALL BE OF 10N/mm<sup>2</sup> UNLESS OTHERWISE NOTED. ALL MASONRY SHALL BE Laid IN CLASS (ii) MORTAR.



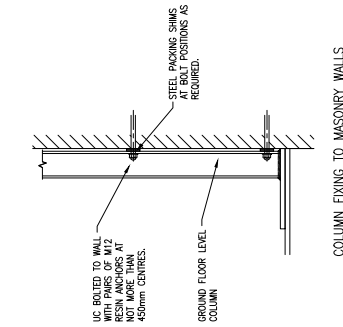
ELEVATION FRAME GE3  
SCALE 1:30

ELEVATION FRAME GE2  
SCALE 1:30

ELEVATION FRAME GE1  
SCALE 1:30

**STRUCTURAL STEELWORK**

- ALL STRUCTURAL STEELWORK SHALL BE MILD STEEL AND PAINTED WITH 1 COAT OF RED OXIDE. THE FABRICATION WORKS AND JOINTS SHALL BE TO THE REQUIREMENTS OF BS 5400 PART 1. ALL STEELWORK SHALL BE TO BE WELDED TO THE JOINTS WITH A DRY FILM THICKNESS OF NOT LESS THAN 50 MICRONS. STEELWORK TO BE ENCASED IN CONCRETE SHALL BE UNPAINTED.
- ALL STEELWORK CONNECTIONS AND DETAILS SHALL BE AS APPROVED BY THE MAIN CONTRACTOR UNLESS OTHERWISE NOTED.
- UNLESS NOTED OTHERWISE THIS PROJECT SHALL BE CONSIDERED AS EXECUTION CLASS EXC2 TO BS EN 1090-2 FOR THE PURPOSES OF THE DESIGN OF THE COMPONENTS AND THE DETAILS.
- PROPOSED STEELWORK RELATES TO THE STEELWORK TO BE CONSTRUCTED USING THE STEELWORK SUPPLIER/MANUFACTURER SHALL HAVE EXCC CAPABILITY OR HIGHER.
- GROUND FLOOR STEEL COLUMNS TO CONNECT TO BASEMENT COLUMNS WITH TOP CAP PLATES AND MIN. 4MM2 BOLTS.



COLUMN	SECTION
GC1/GC2	178x102 UB19
GC3/GC4	103x203 UC71
GC5/GC6	103x203 UC46
GC7	150x100x8 RHS
GC8	300x100x10 RHS
GC9	203x203 UC26

△ ROOF INDICATES 50/200 GRADE C24 TIMBER JOISTS AT 300mm CENTRES.

BEAMS NOT SIZED ON THIS DRAWING AS PER ULS2 ULS3 SECTIONS UNL.

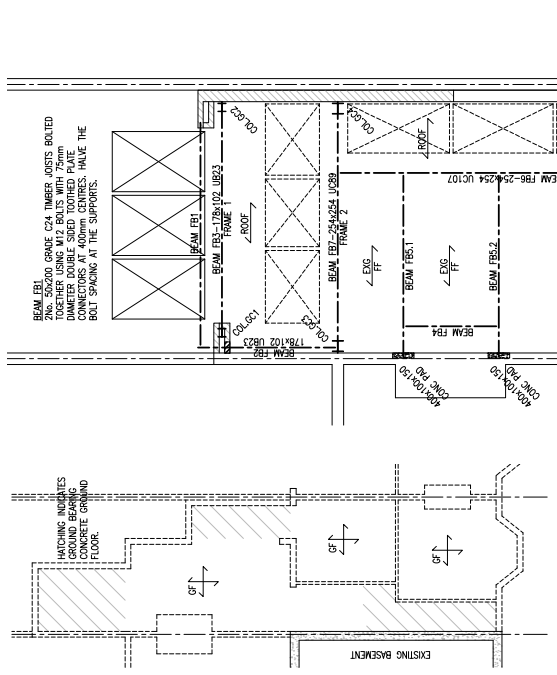
INDICATES SINGLE ENGINEERING BRICK AS PASTONE.

WALL PLATE SUPPORTING ROOF JOISTS SHALL BE STRAPPED DOWN TO LOAD BEARING WALLS USING 30x5 GALVANISED MILD STEEL STRIPS NOT LESS THAN 3000mm LONG. THE STRIPS SHALL BE TO BE FULLY SPOUNGED TO THE WALLS. ROOF JOISTS SHALL BE FIXED TO THE WALLS USING GALVANISED STEEL FRAMING ANCHORS.

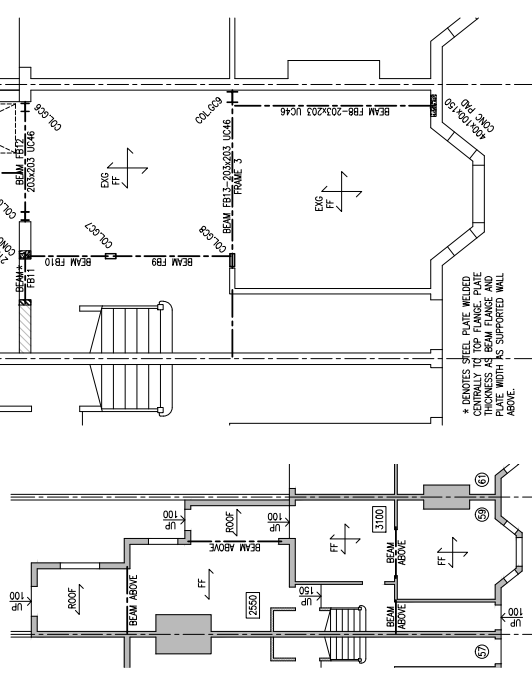
ALL WALLS SHALL BE STRAPPED TO FLOOR JOISTS WITH 30x5 GALVANISED MILD STEEL STRIPS AT NOT MORE THAN 2000mm CENTRES. WHERE A WALL IS NOT TO BE STRAPPED TO FLOOR JOISTS SHALL BE FIXED TO A MINIMUM OF 3 JOISTS AND SOLID NOGGING SHALL BE PROVIDED AT STRAP JOISTS BETWEEN EACH JOIST AND BETWEEN WALL AND THE 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 THE JOIST SPAN. ALL JOISTS SHALL BE AT JOIST SPANS LESS THAN 4.5m AND WITH 2 ROWS AT THIRD SPAN POINTS FOR JOIST SPANS GREATER THAN 4.5m.

NOTE: ANTICIPATED DEFLECTION IN LONGER SPAN BEAMS HAS BEEN DIMINISHED 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 SUPPORTS TO PRE-CAMBER THE BEAM AND THE STRUCTURE ABOVE AND THE SUBSEQUENT REMOVAL OF THE TEMPORARY SHORING.



EXISTING BASEMENT FLOOR PLAN  
SCALE 1:100



PROPOSED GROUND FLOOR PLAN  
SCALE 1:50

EXISTING GROUND FLOOR PLAN  
SCALE 1:100

Rev:	Revision	Date
Project	59 SOLENT ROAD LONDON NW9 1TY	
Title	PROPOSED NEW BASEMENT AND STRUCTURAL ALTERATIONS STRUCTURAL DETAILS - SHEET 1	
Drawing Status	BUILDING REGULATIONS	
Date	Drawn by	Checked
18/05/2016	AFB	AFB
Scale	AS NOTED AT A1	
<p><b>MMP DESIGN</b> Consulting Civil &amp; Structural Engineers</p> <p>Second Floor Unit 5 100 Southfield Lane County Hill Road Luton, Bedfordshire LU2 7TX UK Email: <a href="mailto:info@mmpdesign.co.uk">info@mmpdesign.co.uk</a></p>		
Job No.	Dwg. No.	Rev.
4580	4580	01