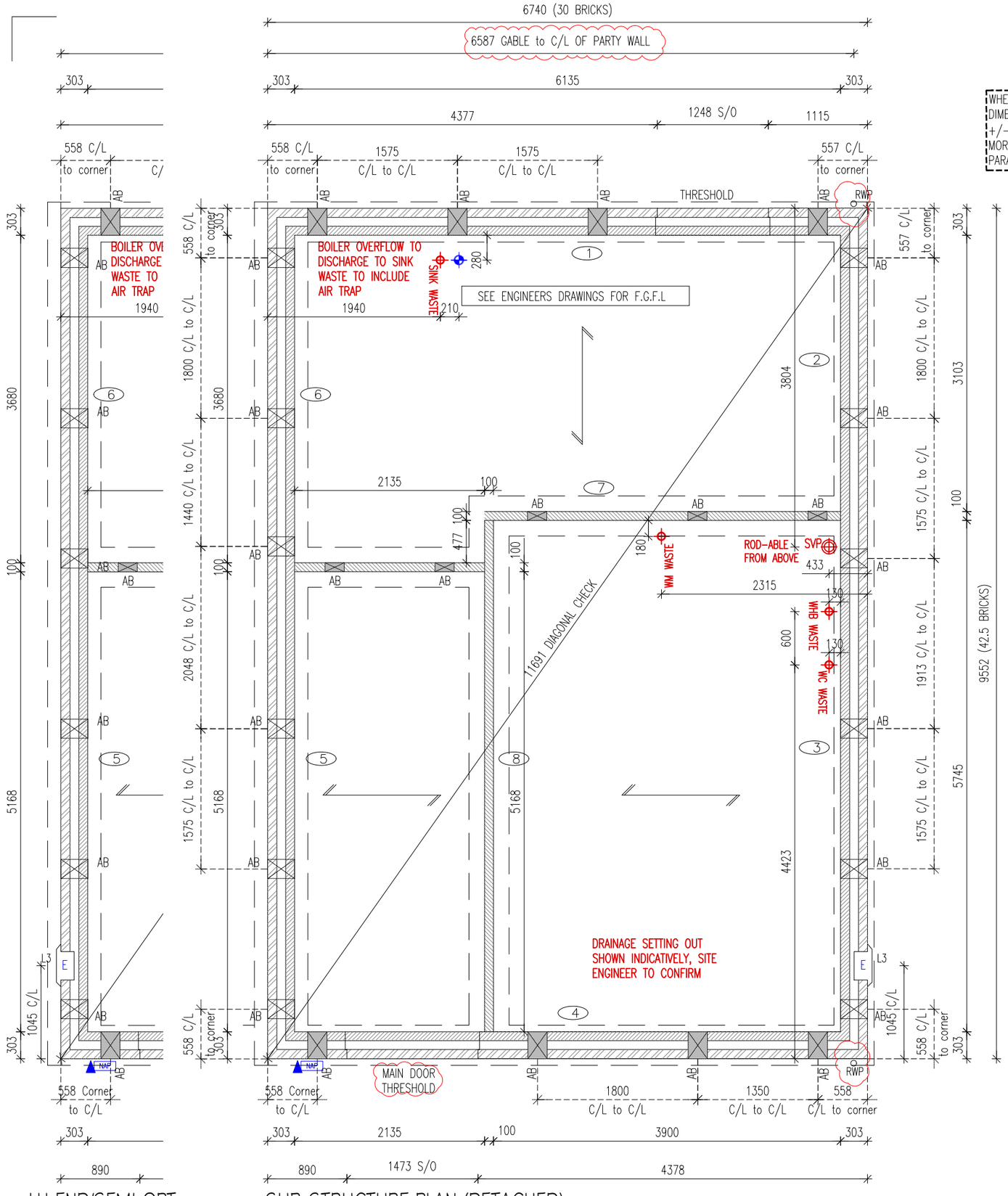


LH END/SEMI OPT.
EMAP41 (4B6P)

SUB-STRUCTURE PLAN (DETACHED)
EMAP41 (4B6P)

WHEN A MASONRY PIER IS A NON BRICK DIMENSION, IF THE LENGTH CAN ACCOMMODATE +/- 1.5mm THEN ADJUST A STANDARD 10mm MORTAR JOINT TO SUIT. IF OUTSIDE OF THESE PARAMETERS, THEN A CUT BRICK IS TO BE USED

FOR GROUND FLOOR CONSTRUCTION, REFER TO MANUFACTURERS DETAILS

FOR SURFACE WATER & RWP CALCULATIONS, REFER TO LAYOUT - DWG# EMAP41_42

DRAINAGE SETTING OUT, TO BE CONFIRMED BY APPOINTED SITE ENGINEER

GUTTER SIZE & RWP POSITIONS TO BE DESIGNED BY SITE ENGINEER WITH DOWNPIPES LOCATIONS IN ACCORDANCE WITH DEVELOPMENT DRAINAGE LAYOUT, SITE CONDITIONS AND EXPANSION JOINT LOCATIONS

AB — DENOTES LOCATION OF TELESCOPIC UNDERFLOOR AIR BRICKS.

AB — DENOTES LOCATION OF ADDITIONAL TELESCOPIC UNDERFLOOR AIRBRICKS TO EXTERNAL WALLS WHEN A BASIC RADON OR OTHER GAS MEMBRANE IS INSTALLED. VENTILATION REQUIREMENT TO BE ADJUSTED TO SUIT SITES WITH MORE SEVERE CONTAMINATION OR REQUIREMENTS. AIRBRICK VENTILATION FOR RADON OR OTHER GAS POSITIONED IN EXTERNAL WALLS AT MAX. 2.0M C/C AND 450MM FROM EXTERNAL CORNERS IN ADDITION TO THE STANDARD VENTILATION/AIRBRICKS CALCULATED.

ALL DIMENSIONS FOR SERVICES HAVE BEEN MEASURED FROM THE EXTERNAL WALL LINE.

SUBSTRUCTURE BLOCKWORK HATCH (MASONRY)

EXTERNAL WALLS

- 100mm BLOCKWORK – 3.6N/mm² AIRCRETE (600–800kg/m³, 0.15W/mk).
- 100mm BLOCKWORK – 7.3N/mm² AIRCRETE (600–800kg/m³, 0.15W/mk).

INTERNAL WALLS

- 100mm BLOCKWORK – 3.6N/mm² AIRCRETE (600–800kg/m³) FOR INTERNAL LOAD BEARING WALLS

PARTY WALLS

- 100mm BLOCKWORK – 3.6N/mm² AIRCRETE (600–800kg/m³, 0.15W/mk) FOR E-WM-30, REFER TO SITE SPECIFICATION.

SUB STRUCTURE NOTES :

1. THIS DRAWING MUST NOT BE SCALED.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER PROJECT DRAWINGS
3. ALL DETAILS AND DRAWINGS MUST BE READ IN CONJUNCTION WITH THE "TW NATIONAL CONSTRUCTION SPECIFICATION"
4. BEAM AND BLOCK / RAFT FOUNDATIONS TO STRUCTURAL ENGINEER / SPECIALIST DESIGN.
5. FOR DETAILS OF CAST INSITU POWERFLOATED SUSPENDED GROUND FLOOR SLAB, SEE SPECIALIST DRAWINGS.
6. DATUM 1 (MASONRY CONSTRUCTION ONLY) = FINISHED FLOOR LEVEL.
   TOP OF FLOATING SLAB, SUSPENDED SLAB AND RAFT FOUNDATION TO BE LEVEL WITH DPC (INSULATION POSITIONED UNDER SLABS).

   FOUNDATIONS
7. FOUNDATION WIDTHS AND DEPTHS TO BE DETERMINED BY THE STRUCTURAL ENGINEER, BASED ON THE SITE INVESTIGATION REPORT / WALL FOUNDATION LOADS TO BE AGREED BY THE BUILDING CONTROL ENGINEER.
8. (–) INDICATES REFERENCE TO WALL NUMBER AND FOUNDATION LOADS.
9. CHECK SOIL REPORT FOR SPECIAL REQUIREMENTS E.G. PRECAUTIONS NECESSARY FOR SULPHATES IN SOIL ETC.
10. GAS PIPES TO RUN IN GROUND FLOOR INSULATION OR, IF INTEGRAL GARAGE TYPE, WITHIN FIRST FLOOR CARCASS.

NOTE : TABLE OMITS FOUNDATION SELF-WEIGHT

EMAP41 FOUNDATION LOADS KN/M. run (DETACHED)								
WALL NUMBER	1	2	3	4	5	6	7	8
GROUND BEARING SLAB	60	40	50	50	40	40	30	50
SUSPENDED CONCRETE SLAB	70	40	60	50	40	40	40	60
BEAM & BLOCK (JET FLOOR)	70	40	60	50	50	40	40	60

*– LOAD FOR 1 SIDE OF PARTY WALL ONLY. THE LOAD SHOULD BE ADDED TO THE PARTY WALL LOAD FOR THE HOUSE TYPE ON THE OTHER SIDE.

Approved Document C – Under floor ventilation requirements					
Under floor ventilation to be provided to suit the greater of the air calculations: By floor area or by External wall length					
Measure	M² or M	Unit mm²	Total Air Req mm²	Manthorpe Vent size mm²	Min. Vents Req
Floor Area	54.89	500	27445	6450	5
Mid Unit Ext Wall	n/a	1500	n/a	6450	n/a
End Unit Ext Wall	21.21	1500	31815	6450	5
Det Unit Ext Wall	30.16	1500	45240	6450	8

SUB-STRUCTURE LEGEND

ABBREVIATIONS
E = ELECTRIC METER
RWP = RAIN WATER PIPE
L# = LINTEL REFERENCE
SVP = SOIL VENT PIPE
RE = RODDING EYE

LEGEND
▲ = TELECOM ENTRY POINT
WE = WATER ENTRY POINT
NAP = NETWORK ACCESS POINT
CU = CONSUMER SERVICE UNIT
WASTE = DIRECT DRAINAGE CONNECTION

SUB-STRUCTURE DETAILS	
Foundations (Jetfloor)	EM-FD21-01-10, 11, 30, 31
Jetfloor system details / Integral garages	EM-GF21-02-01, 02, 04, 05, 07, 10, 13
Future accessible shower provision	EM-GF21-02-74
Service entry details	EM-FD21-01-70

REV	DATE	DESCRIPTION OF REVISION	DRAWN	CHECKED
C01	13.10.25	STATUS TO CONSTRUCTION; Party Wall external dim added; Drainage run omitted; Detached OP RWP relocated; LH opt. meter shown	SN	LE
T02	20.06.25	Sub-structure legend updated	CC	LE
T01	22.04.25	STATUS TO TENDER	CC	LE

Status: CONSTRUCTION

NDSS Compliance: COMPLIANT
ADM Compliance Level: M4(2)

Mark Reeves Architects
5 Northfields Prospect, Putney Bridge Road, London, SW18 1PE
Tel: 020 8874 0484 Email: mail@mralarchitects.co.uk

Project No: 23/1024

Drg No: EMAP41- 21P2 - 11 - C01

Project: Grange Farm, WD (Phase 2)

Drwg Title: WITHERSTEAD (4B6P)
SUB-STRUCTURE PLAN

AS PLOT/S: 168, 185–DET

OPP PLOT/S: 169

Scale: 1:50 @ A3 Date: Jan 2025
Drawn By: CC Checked By: RB

Client: Taylor Wimpey

Taylor Wimpey UK Ltd
Gate House, Turnpike Road,
High Wycombe, Bucks HP12 3NR
Tel 01494 558323 Fax 01494 885663
www.taylorwimpey.com