RANELAGH ROAD

600mm high brick walls to Ranelagh Road frontage and returns to flank walls of plots 4&5

SURFACE WATER DETENTION/INFILTRATION BASIN. MAXIMUM DESIGN LEVEL 6.90m 100 YEAR+30% CLIMATE CHANGE (6.00–6.90m) (364.53m3)

EXISTING MANHOLE

DRAINAGE KEY:

- FWMH — FOUL WATER MANHOLE/DRAINAGE 150mm ø MIN. 1:40 U.N.O.
- SWMH — SURFACE WATER MANHOLE/DRAINAGE 150mm ø LAID FLAT U.N.O.
- RWP — RAINWATER PIPE (ALL TRAPPED)
- SVP — SOIL & VENT PIPE
- RE — RODDING EYE.
- FORMPAVE OUTLET
- EXISTING RISING MAIN
- EASEMENT TO EXISTING 525mm DIA. SEWER. 3.5m EITHER SIDE OF SEWER
- TREE PROTECTION ZONE
- HOUSE SOAKAWAY TOTAL VOLUME = 283.4m3
- FW INSPECTION CHAMBER
- SW INSPECTION CHAMBER
- CP — CATCHPIT

NOTES:

1. THIS DRAWING IS COPYRIGHT AND SHOULD NOT BE REPRODUCED WITHOUT APPROVAL.

2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF BOTH PARTIES IMMEDIATELY.

3. ANY DIMENSIONS/LEVELS INDICATED 'rel.' REFER TO ASSUMED/EXISTING DIMENSIONS WHICH ARE TO BE SITE CHECKED PRIOR TO THE COMMENCEMENT OF ANY WORK.

DRAINAGE NOTES:

D1. INVERT LEVELS AND POSITIONS OF EXISTING DRAINS /CHAMBERS /SEWERS WHERE NEW CONNECTIONS ARE TO BE MADE MUST BE CHECKED AND CONFIRMED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS.
D2. ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY, ENVIRONMENT AGENCY AND IN CONJUNCTION WITH ALL RELEVANT BRITISH STANDARDS, CODES OF PRACTICE AND 'SEWERS FOR ADOPTION' AS APPROPRIATE.
D3. ALL DRAINAGE SHALL COMPLY WITH THE TYPICAL DETAILS AND THE REQUIREMENTS OF BSEN 752.
D4. REFER TO MANHOLE SCHEDULE OR DRAWINGS FOR MANHOLE TYPES, SIZE, DEPTHS AND SPECIFIC REQUIREMENTS.
D5. FOR SETTING OUT DIMENSIONS OF SVP'S, RWP'S ETC. REFER TO ARCHITECT'S DRAWINGS.
D6. ALL PIPES UP TO 300mm DIAMETER TO BE WITHRIED CLAY, EXTRA STRENGTH TO BSEN 295 OR BS 65 WITH PLAIN ENDED SLEEVED OR SOCKETED FLEXIBLE JOINTS. ALL PIPES OF 375mm DIAMETER AND OVER, TO BE SULPHATE RESISTING CONCRETE CLASS M WITH SOCKETED FLEXIBLE JOINTS.
D7. INVERTS OF INCOMING BRANCHES SHALL BE AT SPRINGING LEVEL TO THE MAIN PIPE AND FORMED GENERALLY USING CHANNEL PIPES AND SLIPPER BENDS. CUT TO SUIT.
D8. ALL GULLY AND DRAINAGE CHANNEL CONNECTIONS SHALL BE 150mm DIAMETER AND TRAPPED UNLESS OTHERWISE SPECIFIED.
D9. ALL FOUL AND RWP CONNECTIONS SHALL BE 100MM DIAMETER UNLESS OTHERWISE SPECIFIED.
D10. ALL PRE-CAST CONCRETE UNITS IN THE DRAINAGE WORKS SHALL BE MANUFACTURED USING SULPHATE RESISTING CEMENT.
D11. MANHOLE COVERS AND FRAMES SHALL BE TO BSEN 124 AND KITEMARKED. COVER AND FRAMES SHALL BE HEAVY DUTY D400 IN CARRIAGEWAYS AND VEHICULAR AREAS AND MEDIUM DUTY B125 IN FOOTWAYS AND SOFT LANDSCAPING. IN BLOCK PAVED AREAS COVERS SHALL BE RECESSED FABRICATED STEEL.
D12. REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF MANHOLES AND DRAINS CONSTRUCTED WITHIN FLOOR SLABS AND FOUNDATIONS.
D13. COVER LEVELS ARE TO BE ADJUSTED LOCALLY TO SUIT FINISHED GROUND LEVELS.
D14. HEALTH & SAFETY: THE WORKS SHALL BE CARRIED OUT BY SPECIALIST COMPETENT AND EXPERIENCED CONTRACTORS WHO ARE MEMBERS OF A RECOGNISED NATIONAL ORGANISATION.
OPERATIVES SHALL HAVE RECEIVED FULL AND APPROPRIATE TRAINING FOR THE OPERATION THEY ARE TO UNDERTAKE. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL PERTINENT HEALTH AND SAFETY REGULATIONS.
D15. PIPES TO BE LAID TO A MINIMUM GRADIENT OF 1:60 UNLESS NOTED OTHERWISE.

Surface Water Manhole Schedule

Manhole Ref	Cover Level	Invert Level	Depth (m)	Size/ Constr'tion	Cover/ Grade
S1	7.50	6.40	1.10	B	B125
S2	7.37	6.40	0.97	B	D400
S3	7.32	6.40	0.92	B	D400
S4	7.15	6.40	0.75	B	D400
S5	7.15	6.40	0.75	B	D400
S6	7.15	6.40	0.75	B	D400
S7	7.15	6.40	0.75	B	D400
S8	7.15	6.40	0.75	B	D400
S9	7.15	6.40	0.75	B	B125
S10	7.15	6.40	0.75	B	D400
S11	7.15	6.40	0.75	B	D400
S12	7.15	6.40	0.75	B	D400
S13	7.15	6.40	0.75	B	B125
S14	7.38	6.40	0.98	B	D400
S15	7.15	6.40	0.75	B	B125
S16	7.15	6.40	0.75	B	B125
S17	7.42	6.40	1.02	B	B125
S18	6.75	6.00	0.75	B	B125
S19	6.75	6.00	0.75	B	D400
S20	6.75	6.00	0.75	B	D400
S21	7.15	6.40	0.75	B	D400
S22	7.15	6.40	0.75	B	D400

Foul Manhole Schedule

Manhole Ref	Cover Level	Invert Level	Depth (m)	Size/ Constr'tion	Cover/ Grade
F1	7.15	3.43	3.72	B	D400
F1a	7.15	2.97	4.18	B	D400
F2	7.15	3.99	3.16	B	D400
F3	7.15	4.17	2.98	B	D400
F4	7.15	4.75	2.40	B	D400
F5	7.15	5.47	1.68	B	D400
F6	7.15	5.62	1.53	B	D400
F7	7.15	4.74	2.41	B	D400
F8	7.15	5.17	1.98	B	D400
F9	7.15	5.75	1.40	B	D400
F10	7.15	5.99	1.16	B	D400
F11	7.30	6.25	1.05	B	D400
F12	7.40	6.05	1.35	B	D400
F13	7.38	6.03	1.35	B	D400

REFER TO HDL DRG. Nos. 14-2260-510 FOR EXTERNAL WORKS/DRAINAGE DETAILS

SIZE OF SOAKAWAYS SUBJECT TO RESULT OF PERCULATION TESTS

SOAKAWAYS TO BE LOCATED A MINIMUM OF 5m FROM ANY FOUNDATION

C7	CONSTRUCTION	HDL/09.16	HDL/09.16	HDL/09.16
C6	CONSTRUCTION	HDL/09.16	HDL/09.16	HDL/09.16
C5	CONSTRUCTION	HDL/09.16	HDL/09.16	HDL/09.16
C4	CONSTRUCTION	HDL/11.15	HDL/11.15	HDL/11.15
Issue	Amendment	Revised by and date	Checked by and date	Approved by and date

ORIGINAL DRAWING SIZE – A1 — X-REFS:

CAD REF:

HDL HAMILL DAVIES LIMITED Consulting Civil and Structural Engineers

Client: FOREMAN HOMES LTD
Project: RANELAGH ROAD, HAVANT
Drawing Title: PROPOSED RESIDENTIAL DEVELOPMENT DRAINAGE LAYOUT
Purpose: CONSTRUCTION
Drawn: HDL
Designed:
Scale: 1:200 @ A0
Issuing Office: SWANSEA
Telephone: 01489 893 596
Drawing Number: 14-2260-500
Issue: C7

CONSTRUCTION

ACO DRAINAGE REQUIRED TO ALL FRONT DOORWAYS WHERE FFL IS LOWER THAN ADJACENT ACCESS ROAD FINISHE LEVELS

2M High Instant Led

Indicative

LINEAR SCALE 1:200