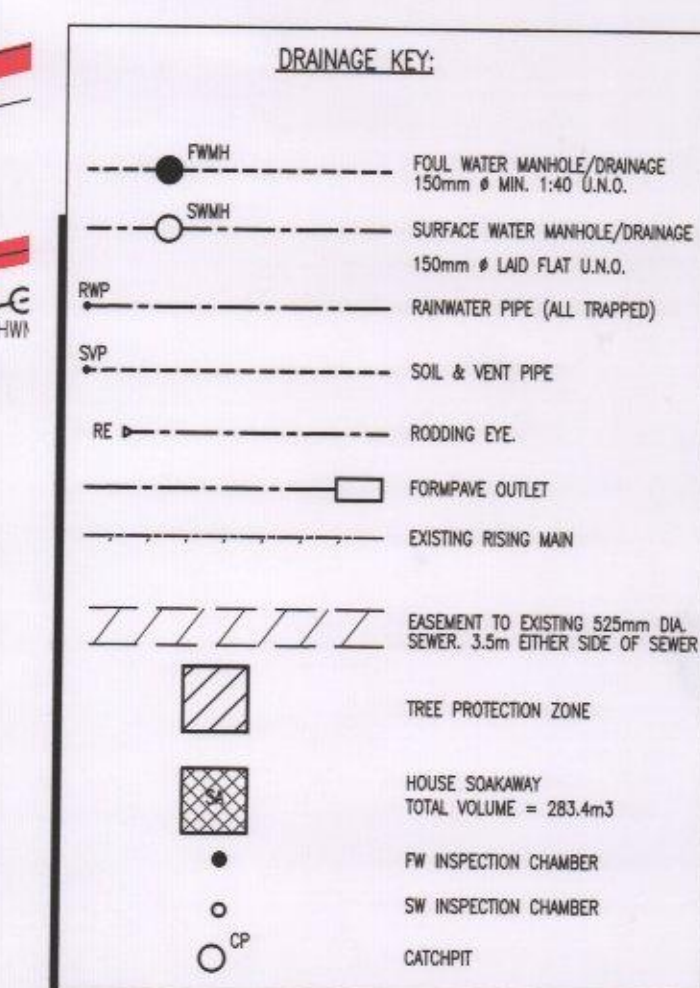
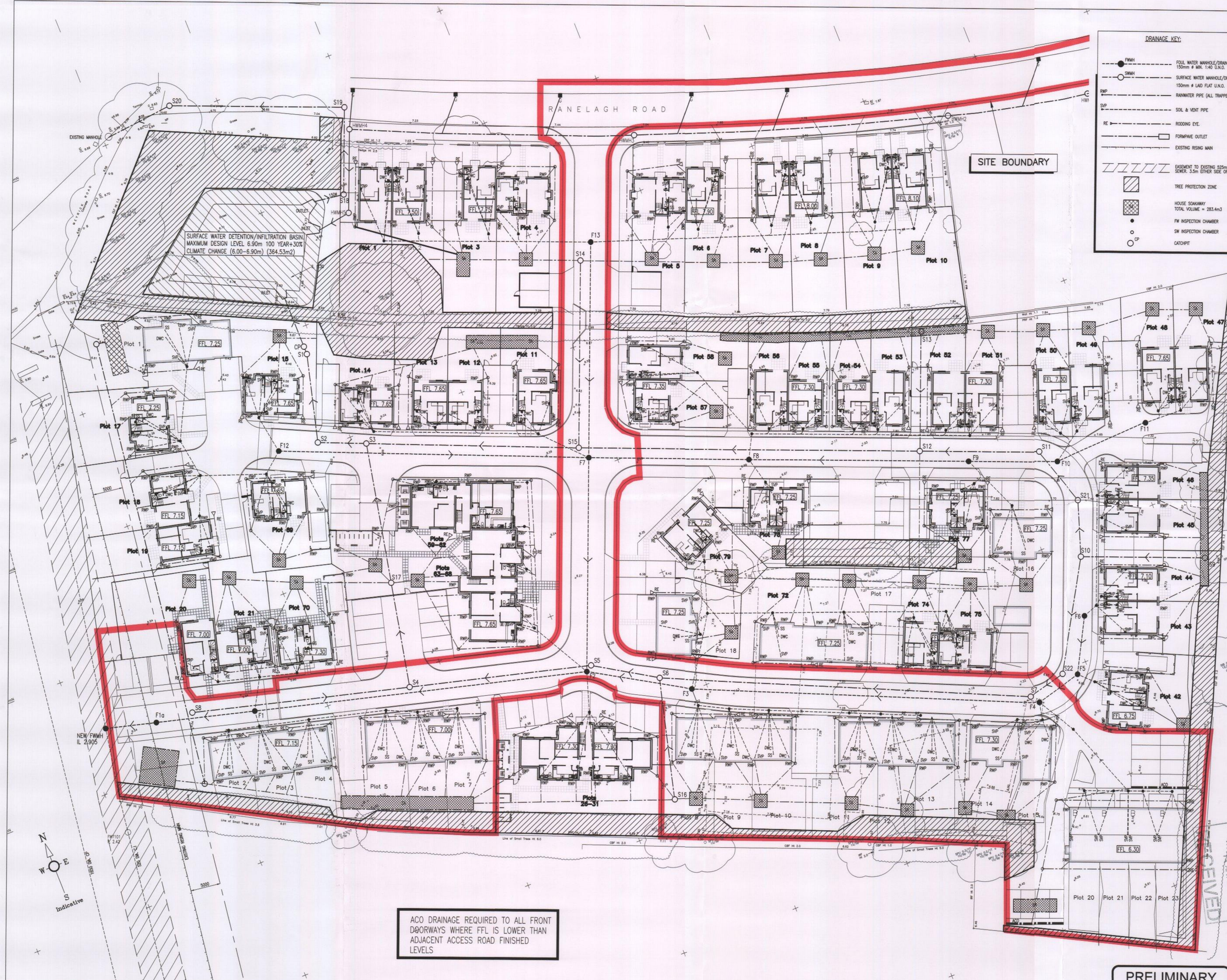




NOTES:

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

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

3. ANY DIMENSIONS/LEVELS INDICATED 'ref.' 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 BS EN 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 VITRIFIED CLAY, EXTRA STRENGTH TO BS EN 295 OR BS 85 WITH PLAIN ENDED SLEEVE OR SOCKETED FLEXIBLE JOINTS. ALL PIPES OF 375mm DIAMETER AND OVER, TO BE SULPHATE RESISTING CONCRETE CLASS 1 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 BS EN 124 AND KITEMARKED. COVER AND FRAMES SHALL BE HEAVY DUTY D400 IN CARPARKS 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.

D15. 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 RELEVANT HEALTH AND SAFETY REGULATIONS.

D16. PIPES TO BE LAID TO A MINIMUM GRADIENT OF 1:80 UNLESS NOTED OTHERWISE.

Surface Water Manhole Schedule

Manhole Ref	Cover Level	Invert Level	Depth (m)	Size/Constr'n	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'n	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 PERCUSSION TESTS.

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

REVISIONS

No.	Description	By	Date
1	PRELIMINARY	HDL/04/16	14 APR 2016

ORIGINAL DRAWING SIZE - A1

CAD REF:

FOR MAN HOMES LTD

RANELAGH ROAD, HAWT

PROPOSED RESIDENTIAL DEVELOPMENT

SITE A - DRAINAGE LAYOUT

PRELIMINARY

Scale: 1:200

Sheet: 01

14-2260-520A P1

PRELIMINARY