KEY:

- Proposed Foul Water (Option 1)
- Proposed Foul Water (Option 2)
- Existing Public FW Sewer — FW
- Proposed Surface Water
- Existing Public SW Sewer — SW
- Private Foul Water Sewer to be abandoned
- Porous Paving
- Attenuation System
- Water Butt — WB

Note:
Subject to trial hole.

Proposed porous surfacing system. Marshall Priora (OSA) wrapped in geotextile. 250mm clean stone layer provided to accommodate 1 in 100 year change.

2 No. new connections to existing private chamber.

Gully for bin store area.

SPUR for foul water rising main from sump pump at basement level by others IL 49.200

SPUR for surface water rising main from sump pump at basement level by others IL 49.350

Swimming pool drainage by others

SVP/Gully to go down to basement level, refer to M&E drawings

SPUR for swimming pool drainage as required

FW08 CL 49.750 IL 48.805

FW07 CL 49.750 IL 48.950

100mmØ 1/40 IL 49.085

100mmØ 1/60

RE CL 49.750 IL 49.400

SW03 (CP) CL 49.750 IL 49.035 BL 48.735

100mmØ 1/32

FWIC CL 49.73 IL TBC

FWIC CL 49.640 IL 48.740

FW09 CL 49.250 IL 48.030

Proposed attenuation system. Aquacell units (OSA) wrapped in geomembrane. 6.0m x 3.0m x 0.8m to accomodate 1 in 100 year storm +40% climate change.
Cover Level 49.650 (min)
Soffit Level 49.050
Base Level 48.250

New 150mmØ lateral connection to public sewer. IL 48.200 (TBC by survey)

100mmØ 1/13

150mmØ Partial Pipe 1/31

FW06 CL 49.750 IL 49.150

FWIC CL 49.79 IL TBC

OPTION 1

100mmØ 1/42

150mmØ 1/100 IL 48.350

SW04 (CP) CL 49.750 IL 48.500 BL 48.200

New flow control chamber. Hydro-brake to restrict flows to 2.0l/s.
CL 49.650
IL 48.250

Formation to be graded away from properties.

225mmØ Foul/Combined Sewer

225mmØ Surface Water Sewer

FW07 (1.2mØ) CL 49.750 IL 48.240

OPTION 2

IL 49.200

New 150mmØ lateral connection to public sewer. IL 47.200 (TBC by survey)

FFL 49.886

Partial infiltration pipe. 150mmØ pipe in 600mm clean stone trench wrapped in geotextile.

SW05 (CP) CL 49.750 IL 48.620 BL 48.320

IL 46.670

100mmØ 1/80

100mmØ 1/80 OPTION 2

SWMH 4906 CL 66.62 IL 64.69

FWMH 4905 CL 66.68 IL 63.69

Low invasive construction only

FW01 CL 49.750 IL 49.150

RE CL 49.750 IL 49.400

100mmØ 1/40

FW02 CL 49.750 IL 48.920

100mmØ 1/80

100mmØ 1/55

Note:
Topographical survey is to arbitrary datum & grid. Level adjustment is +16.44m based on FWMH 4905. Survey must be coordinated to ordnance datum & grid prior to completion of design.

Low invasive construction in tree root zones. Pipes to have concrete bed/surround.

FW04 CL 49.750 IL 48.715

100mmØ 1/80

100mmØ 1/80

FW03 CL 49.750 IL 48.745

100mmØ 1/80

Ground level to be built up as appropriate to suit existing tree roots. Cover levels to be adjusted on site accordingly.

SW01 CL 49.750 IL 49.065

SW02 CL 49.750 IL 48.780

FW05 CL 49.750 IL 48.690

PRIVATE GARDEN

GARAGE

No.8 PRIVATE RESIDENCE

PRIVATE DRIVE/GARDEN

LINKSWAY

GENERAL NOTES

1.1. THIS DRAWING IS COPYRIGHT AND SHOULD NOT BE REPRODUCED IN WHOLE OR PART WITHOUT THE WRITTEN CONSENT OF STILWELL LTD.
1.2 DO NOT SCALE FROM THIS DRAWING.
1.3. LOCATIONS OF ALL EXISTING SERVICES ON-SITE TO BE CONFIRMED & PROVIDED TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORKS.
1.4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT STILWELL LTD DRAWINGS & SPECIFICATIONS.

Drainage Construction Notes

1. All materials and workmanship related to private sewers shall be in accordance with Part H of the Building Regulation and BSEN752

2. All materials and workmanship related to adoptable sewers shall be in accordance with the Sewers For Adoption 7th Edition as published by the Water Services Association and any subsequent revisions shown by SHW.

3. All sustainable drainage (SuDS) to be in accordance with CIRIA C753 The SuDS Manual.

4. Gulley grating and aco channel shall be ductile iron to BS EN124, Class D400, and kitemarked.

5. Manhole covers and frames to be ductile iron to BS EN124 Class D400 in carriageways and Class B125 in verges unless otherwise specified. Covers to be kitemarked and badged "SW" or "FW" as appropriate. Brick/brick infilled manhole covers are not to be used on adoptable manholes.

6. All clayware pipes to be vitrified clay to BS EN 295 or BS 65 and of minimum strength Class 120 or Extra Strength respectively.

7. All plastic pipes to be PVC-U in accordance with BS EN 1401.

8. All carrier drains under carriageway to be constructed with BEDDING TYPES S or Z depending on depth of cover as described on Typical Drainage Details drawing.

9. All pipe connections to be made soffit to soffit.

10. All pipework with less than 1.2m cover within roads or parking areas to have concrete bed & surround.

11. If the contractor finds any discrepancies in the information provided then he must notify the engineer immediately before any materials are ordered or works undertaken

12. All underslab drainage at minimum 1 in 40 fall unless noted otherwise.

13. Free draining backfill to all pipes only.

14. All patio's and paths to drain away from properties.

Rev.	Amendments	Date	By
T3	Levels adjusted	14.01.19	AJ
T2	Floor plans updated, basement added	09.01.19	AJ
T1	INITIAL ISSUE.	28.08.18	AJ

Revisions

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Project
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Drawing
Drainage Layout

Scales 1:100 At original size A1

Drawn AJ Checked DB
Date Aug 2018

Status TENDER

Drawing No. A18118/0200 Rev. T3