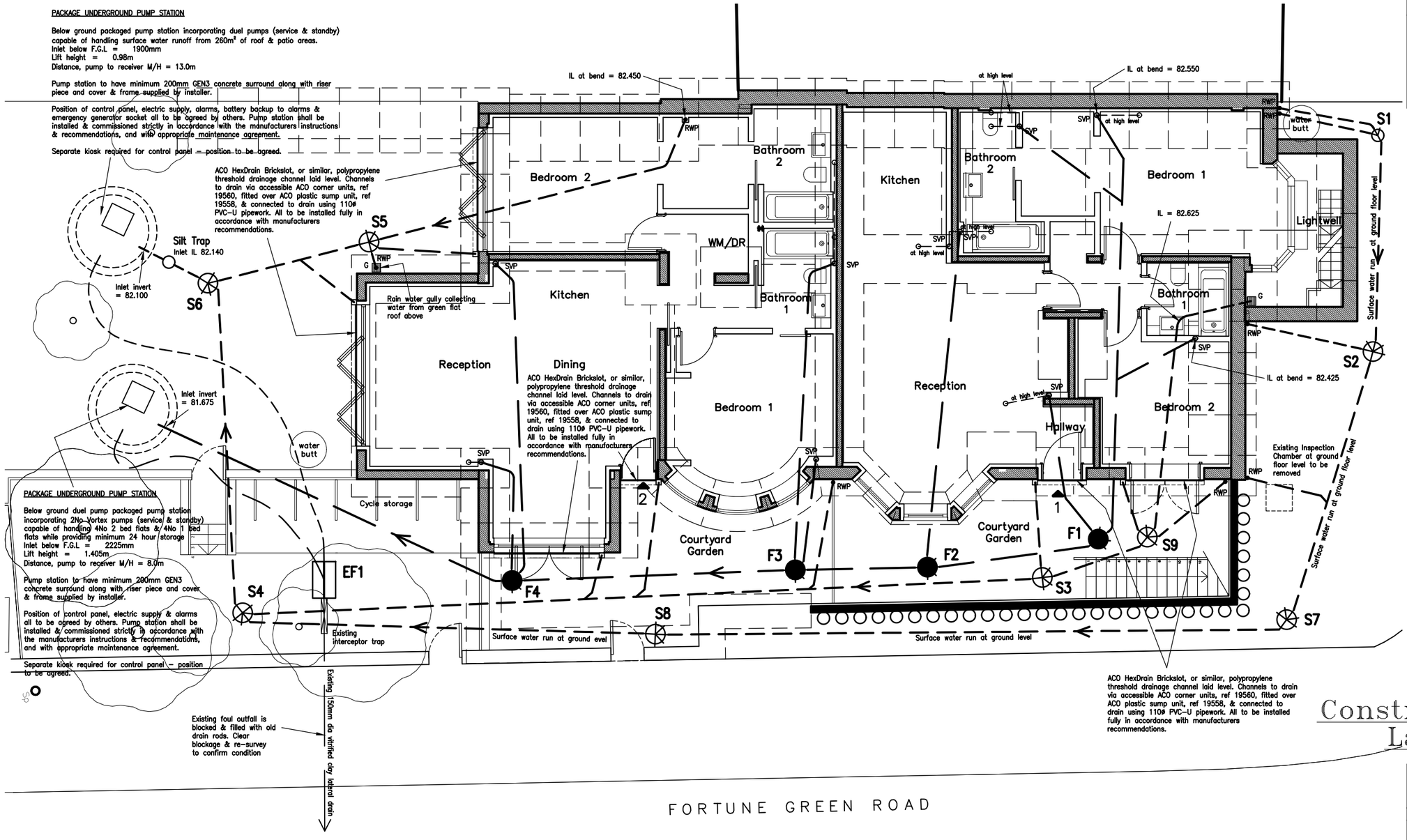

Drainage Key

- F3 — Foul water drain & manhole
- SVP — Soil & vent pipe
- SS — Stub stack
- S3 — Surface water drain & manhole
- RWP — Rain water pipe, discharging into trapped roddable access gully
- re — Rodding eye
- G — Trapped, roddable yard gully

Foul Water Manhole Schedule

REF	SIZE / TYPE	COVER LEVEL	INVERT LEVEL	DEPTH	COVER TYPE
F1	475ø polypropylene	83.460	82.270	1190	A15 #
F2	475ø polypropylene	83.460	82.160	1300	A15 # RA
F3	475ø polypropylene	83.460	82.080	1380	A15 # RA
F4	475ø polypropylene	83.460	81.905	1555	A15 # RA
EF1	Existing*	84.410	83.080*	1330*	Existing

\# indicates a recessed double sealed bolt down cover & frame

RA indicates a reduced access manhole with a clear opening restricted to 350mm diameter

* assumed level of existing manhole on existing lateral drain, to be checked & confirmed on site

Surface Water Manhole Schedule

REF	SIZE / TYPE	COVER LEVEL	INVERT LEVEL	DEPTH	COVER TYPE
S1	300ø polypropylene	86.300	85.700	600	A15
S2	475ø polypropylene	86.250	85.370	880	A15 #
S3	475ø polypropylene	83.460	82.515	945	A15 #
S4	475ø polypropylene	84.150	82.265	1885	A15 RA
S5	475ø polypropylene	83.460	82.270	1190	A15 #
S6	475ø polypropylene	83.800	82.160	1640	A15 RA
S7	475ø polypropylene	86.200	84.500	1700	A15 # RA
S8	475ø polypropylene	83.460	82.530	930	A15 #
S9	475ø polypropylene	83.460	82.550	910	A15 #

NOTES

1. Do not scale from this drawing. If in doubt ask.
2. Dimensions are in millimetres unless noted otherwise.
3. These drawings shall be read in conjunction with the Architect's drawings.
4. Setting out is to be in accordance with Architect's drawings.
5. Underground drainage:–
   Drains to be 100mm diameter Hepworth Plastidrain or equivalent PVC–U pipes to BS EN 1401 unless noted otherwise
6. Foul drains to fall at minimum 1:40 & surface water drains to fall at 1:80 unless noted otherwise or where invert levels are not indicated.
7. External drains with less than 600 cover to have special protection. See bedding details on drawing 201016 / 101.
8. Drains alongside buildings and below formation level to have concrete bed and surround up to formation level.
9. Drains passing under the building with less than 300mm cover beneath the slab are to have concrete surround integral with the slab or tied to the slab with nominal steel reinforcement.
10. All underground drains to be laid with min. 150mm granular bed and surround, unless noted above. See also bedding details on drawing 201016 / 101.
11. For exact locations of svp's, ss's, rwp's, etc. refer to Architect's drawings.
12. Redundant drains to be removed or plugged & filled with grout.
13. For drainage, bedding & manhole details see drawing 201016 / 101.
14. All RWP's to discharge into roddable trapped access gullies.
15. Level information taken from Greenhatch Group drawing 21052_01_P dated 17/11/14.
16. Where an air admittance valve (aav) is fitted:
    a) adequate ventilation should be provided, ie air grill to be installed to ventilate any void
    b) they shall be accessible for maintenance & rodding purposes.

Construction Issue
Last Issue

Rev	Revision note	Date
B	S.w drainage to front lightwell revised, manholes S7 - S9 added.	09/12/16
A	Construction Issue	22/11/16
P1	Preliminary Issue	18/11/16

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Title
Lower Ground Floor Drainage Layout

Drn By	Chk By	DRG N0	REV
pAC		201016 / 100	B
Date: Nov 2016	Scale: 1:50 @ A1		