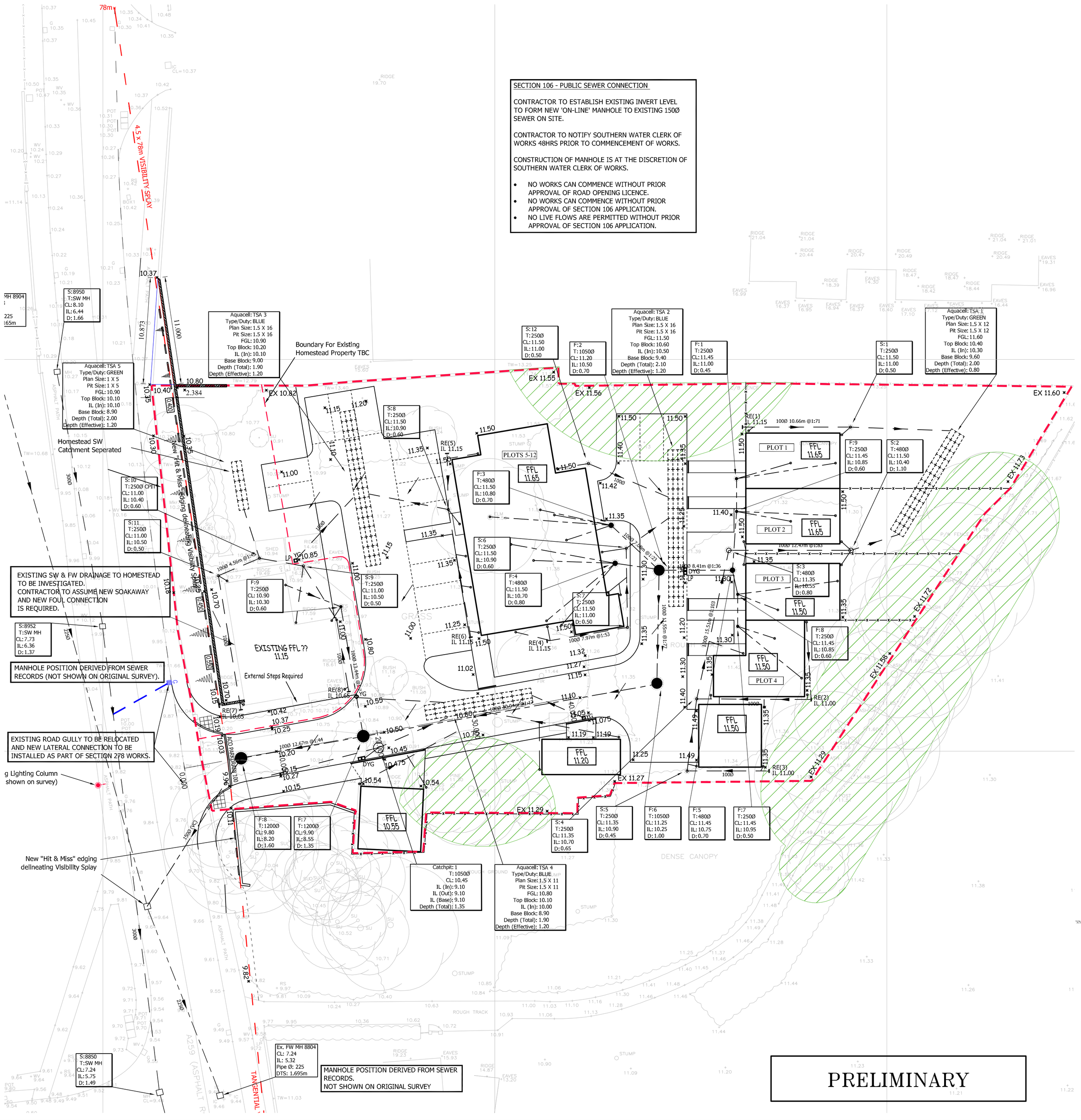


SECTION 106 - PUBLIC SEWER CONNECTION

CONTRACTOR TO ESTABLISH EXISTING INVERT LEVEL TO FORM NEW 'ON-LINE' MANHOLE TO EXISTING 150Ø SEWER ON SITE.

CONTRACTOR TO NOTIFY SOUTHERN WATER CLERK OF WORKS 48HRS PRIOR TO COMMENCEMENT OF WORKS.

CONSTRUCTION OF MANHOLE IS AT THE DISCRETION OF SOUTHERN WATER CLERK OF WORKS.

- NO WORKS CAN COMMENCE WITHOUT PRIOR APPROVAL OF ROAD OPENING LICENCE.
- NO WORKS CAN COMMENCE WITHOUT PRIOR APPROVAL OF SECTION 106 APPLICATION.
- NO LIVE FLOWS ARE PERMITTED WITHOUT PRIOR APPROVAL OF SECTION 106 APPLICATION.

-DRAINAGE KEY-

- Ex F — Existing Foul Water Drain/Sewer
- #Ø 5m @1:# — Storm Water (Private Drain/Public Sewer)
- S# — 480Ø Polypropylene Storm Water IC
- S# — 1050Ø Precast Concrete Ring Storm Water Manhole
- S# — 1200Ø Precast Concrete Ring Storm Water Manhole
- Rodding Point (Below Ground)
- 1500 / 500 — 450sq Storm Road Gully (Single/Double)
- 1.0m x 0.5m Aquacell Block (Infiltration/Tank Storage)
- RSA# — Soakaway - Precast Concrete Ring (Infiltration)
- Soakaway 5.0m Exclusion Zones
- No Dig Zone/TPO Zone
- #Ø 5m @1:# — Foul Water (Private Drain/Public Sewer)
- F# — 250Ø Polypropylene Shallow Foul Water IC
- F# — 480Ø Polypropylene Foul Water IC
- F# — 1050Ø Precast Concrete Ring Foul Water Manhole
- F# — 1200Ø Precast Concrete Ring Foul Water Manhole

Refer to Architects drawings for further Information on plot Internal detailing, service points and threshold drainage details.
Architect to confirm the following:
SVP/SS/AAV LOCATIONS.
RWP LOCATIONS.

Note: AQUACELL storage blocks may be laid in amorphous shapes to suit garden layouts and/or avoid retaining wall foundations. The Engineer must be consulted prior to altering any Invert levels.

Manholes referenced as (#) are to be installed to the discretion of the contractor as follows:
PP1C2500/PP1C4800c
0.450 Depth (min)
0.600 Depth (max)

-LEVELS KEY-

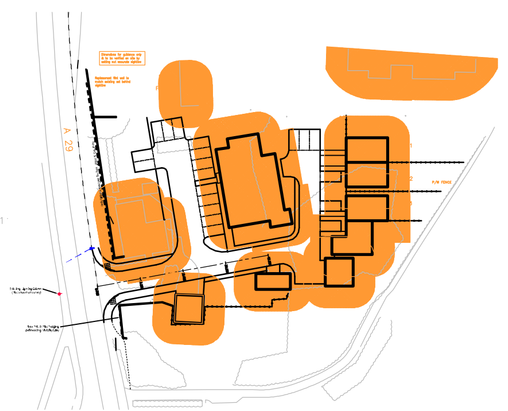
- 134.11 — Existing Spot Level
- 134.11 — Proposed Spot Level
- FFL ##### — Proposed Finished Floor Level
- Contour (Primary)
- Contour (Secondary)
- 1:12 — Proposed Gradient Arrow
- HP — Proposed High Point
- LP — Proposed Low Point
- 0.300 — Proposed (Retained) Level Difference
- Proposed Bank (Top)
- Proposed Bank (Base)
- Proposed Bank Batter

Refer to Opus structural drawings for further information on structural slab levels.

Contours are only as accurate as the Initial land survey information. Contours to A 259 are approximate only and channel levels may vary slightly on site.

Topographical survey levels relate to Ordnance Survey (OS) benchmark.

Refer to Architects drawings for further information on plot internal detailing, service points and threshold drainage details.
Architect to confirm the following:
SVP/SS/AAV LOCATIONS.
RWP LOCATIONS.



5.0m INFILTRATION EXCLUSION ZONES (Scale 1:1000)

SOAKAWAY DESIGNS ARE BASED UPON INFILTRATION RATE OF 8x10(-6) AS VERIFED FROM SITE TEST RESULTS IN ACCORDANCE WITH BRE 365 GUIDANCE.

REFER TO DRAWING 6902(A1)300,301,310,320 FOR CONSTRUCTION DETAILS

PRELIMINARY

STANDARD NOTES:

1. This drawing is to be read in conjunction with all other OPUS drawings, and with all relevant Architect's and Engineer's drawings and specification.
2. No dimensions are to be scaled from this drawing. Unless noted otherwise all dimensions are in millimeters and all levels are in metres from the site datum.
3. All dimensions to be checked on site. All details and dimensions relating to sub-contractors work must be checked and agreed between the sub-contractor or supplier and the general contractor.
4. The electronic information from this drawing can not be guaranteed as dimensionally drawn exact. Figured dimensions must be used for setting out and detailing. OPUS logos and company information must be removed from copies if information is re-used."
5. The main Contractor is responsible for the design of all temporary works, and is also responsible for the safe maintenance and stability of existing buildings at all times.
6. The main Contractor is responsible for all occurrences of ground water during the construction period.
7. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain. The main Contractor is responsible for checking all information on site prior to work commencing and taking due care and attention whilst undertaking the works.
8. The contractor must comply with all current legislation relating to Health & Safety.

DRAINAGE NOTES:

1. All works to be constructed in strict accordance with specification of the Local Authority, BS8301 1985 & BSEN.752-I.
2. All pipe runs near buildings to comply with the Building Regulations 2002 Part H1. Where a pipe is within 1m of a foundation the trench shall be filled with class GEN3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class GEN3 concrete to a level below the lowest level for the foundation equal to the distance from the foundation less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick class GEN3 concrete.
3. Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN3 concrete encasement (150mm thick).
4. Where a pipe, under a carriageway, has a depth of cover of less than 1.2m the pipe shall be laid in a class Z bedding.
5. In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. Compressible boards (fireboard or polystyrene) shall be provided at a maximum of 6m centres (coinciding with pipe joints). The boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.
6. All private building drainage shall be constructed in strict accordance with BSEN.752-I. Unless otherwise specified building drainage shall be 100mm diameter and shall be laid at a minimum gradient of (<1L/sec = 1 in 40/1L/sec > 1 in 80) for foul drains and 1 in 80 for surface water drains. All building drains shall be laid in conjunction with 'non adoptive bedding details' (class D, N or B) unless otherwise specified.
7. All pipes, bends and junction materials shall be vitrified clay, extra strength or super strength to BSEN295:1991, with flexible joints and kitemark certified. Alternatively all pipes and fittings can be UPVC conforming to BS4660 and BS5481:1989 as appropriate and shall be laid in accordance with the manufacturer's specification. If UPVC pipes are to be used then the manufacturer shall be approved by the Engineer prior to construction.
8. All gullies to be roddable or connected to inspection chambers.
9. All gully connections other than at manholes to be 'Y' junctions.
10. Gullies coincident with pedestrian/drive crossings to have pedestrian type gully covers.
11. All road gully connections to be 150mm diameter.
12. All stub stacks to be fitted with air admittance valves where branch drain exceeds 12m except at the head of the run. Soil vent pipes located at the head of a run to be installed with roof tile vent.
13. All connections to be soffit to soffit.
14. Trench temporary formwork is required to all excavations exceeding 1.2m depth to provide adequate support and stability at all times.
15. Sewers exceeding 1.2m depth to be constructed in single sections between manholes only. Trenches to be backfilled prior to excavating the succeeding sewer run.
16. All concrete and concrete products to be in accordance with BRE 363 for sulphates.
17. Where sewer or drains are to be abandoned they shall be removed or infilled by grouting in accordance with the Civil Engineer Specification for the Water Industry 6th Edition, clause S.23.

ADOPTABLE NOTES:

1. All Adoptable sewers shall be in strict accordance with Sewers For Adoption 6th edition. Unless otherwise stated adoptable sewers shall be 150mm diameter and shall be laid in a class S bedding. Where the depth to soffit is less than 1.2m under a public highway or 0.9m elsewhere the pipe shall be laid with a concrete slab bridging protection.
2. All soakaway and/or infiltration pits to satisfy Building Control Officer/Environment Agency.
3. All adoptable roadwork's shall be in strict accordance with the Local Authority specifications.
4. All materials to be agreed with the Local Authority prior to the commencement of works.
5. All finished floor levels shown are for guidance only and may need to be adjusted on site, subject to approval.
6. Any damage caused to the adjacent highway as a result of the development work will be reinstated as necessary following agreement with WSCC Highway Inspector.
7. No private areas to drain onto areas already adopted and no private surface water drainage to be discharged into any highway gully, highway surface water drain, manhole or soakaway maintained by WSCC
8. Manhole covers and frames situated in the carriageway and vehicular accesses shall be class D400 cover and frame 675x675mm clear opening in accordance with EN 124.
9. Manhole covers and frames situated in areas other than the carriageway and vehicular accesses shall be to EN 125 Class B125 cover and frame 675x675mm clear opening.

Rev.	Description	Date	Drawn	Reviewed
P3	Access crossover replaced with bellmouth.	20.05.09	DLS	APT
P2	MH F8 repositioned in line with amendments to crossover layout	23.03.09	DLS	APT
P1	Preliminary issue	11.05.07	MJA	APT

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Client: HAMPSHIRE DEVELOPMENTS LTD

Project: REDEVELOPMENT AT THE HOMESTEAD & SUNNY SIDE WESTERGATE

Drg.Title: PRIVATE ENGINEERING LAYOUT

Scale: 1:200	Drawn: DMF	Reviewed:	
Drg.No: 6902(A1)110	Rev: P3	Date: FEB 08	
Status: PRELIMINARY	Dlps:		

ARUN DISTRICT COUNCIL AUG/APL