

Private Drainage Key

- Rodding Eye
- 450# Inspection Chamber
- Concrete/Brickwork Manhole
- PC Concrete Ring Manhole
- Soil and Vent Pipe
- Stub Stack
- Back Inlet Trapped Gully
- Rainwater Pipe
- Private Road Gully
- Drainage Channel (Slot Lid)
- Rainwater Harvesting Tank
- Cellular Soakaway

- FOUL** **STORM**
- SOAKAWAY NOTES**
- The soil investigation has shown that infiltration is possible into the underlying soils. A variety of results were obtained across the site. For design purposes a value of 2.81x10⁻⁵ m/s has been utilised (refer to Soil Consultants S.I. ref 4844). Soakaways have been designed utilising this value for the 100 year storm return plus 30% for climatic change.
 - Soakage tests (to BRE365) are to be undertaken at the location of each soakaway in order to confirm that the design infiltration rate is achieved. Any discrepancy in the infiltration rate must be reported immediately to PTA Civils' Department.
 - All soakaways to be sited 5m minimum from any building or wall, existing or proposed, or any other soakaway.
 - No soakaway bases to penetrate water table level.
 - No soakaway to be constructed in contaminated ground.

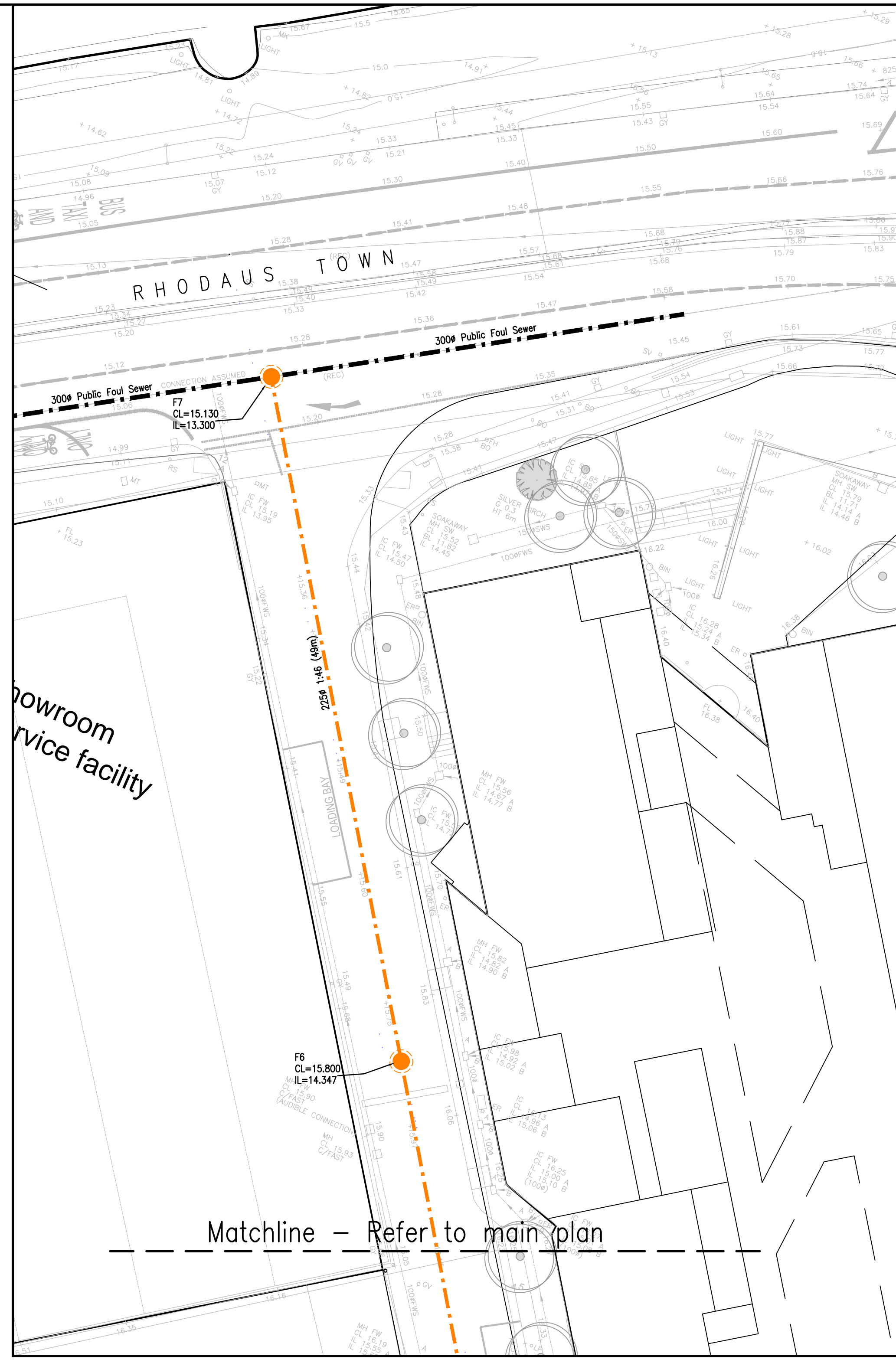
- PRIVATE DRAINAGE NOTES**
- All private drainage works to be in accordance with Part H of the current Building Regulations and BS EN 752.
 - All private drainage to be either:-
PVCu to BS EN 1401-1 (BS 4660).
OR
Vitrified Clayware to BS EN 295.
With the exception of adoptable laterals (e.g. between demarcation chambers and Public sewers) whereby all pipework materials and installation/bedding are to be in accordance with Sewers For Adoption 7th Edition
 - RWP lateral connections are to be sized to suit RWP size as designed by specialist.
Gully laterals to be sized to suit gully outlets.
All other pipes are 110mm diameter unless noted otherwise.
 - Foundations adjacent to drain runs are to be constructed so that the difference between the formation level of the foundation and invert level of any drain must not exceed the horizontal distance minus 500mm.
 - Where foul and surface water sewers cross and there is less than 100mm clearance short lengths of both runs are to be encased in concrete.
 - All RWP, SVP and foul drainage positions are to be confirmed by the Architect.
 - Where RWPs are connected direct to drain, rodding access plates are to be provided.
 - For pipe bedding and backfill details refer to drawing number 8668/6004.

- ADOPTABLE DRAINAGE NOTES**
- All adoptable drainage works to be in accordance with the Water Authorities Association 'Sewers for Adoption 7th Edition'.
 - All adoptable drainage to be either:-
Vitrified Clayware to BS EN 295.
OR
Concrete to BS 5911-1 & BS EN 1916, Class M loading and flexibly jointed (Class 3 Sulphate resistant cement).
Contractor to confirm the approval for the type of pipe and bedding being used with the adopting authority prior to any construction commencing.
 - All precast concrete units are to be to BS 5911 (Class 3 Sulphate resistant cement).
 - All manhole covers and frames are to be to BS EN 124 and kite marked (refer to schedule for load class) and bodged 'FW' or 'SW' as appropriate.
 - All gully grates and frames to be to BS EN 124 Class D400
 - Where foul and surface water sewers cross and there is less than 100mm clearance short lengths of both runs are to be encased in concrete.
 - All gully connections are to be made via pre-formed junctions.
 - For pipe bedding and backfill details refer to drawing number 8668/6004.

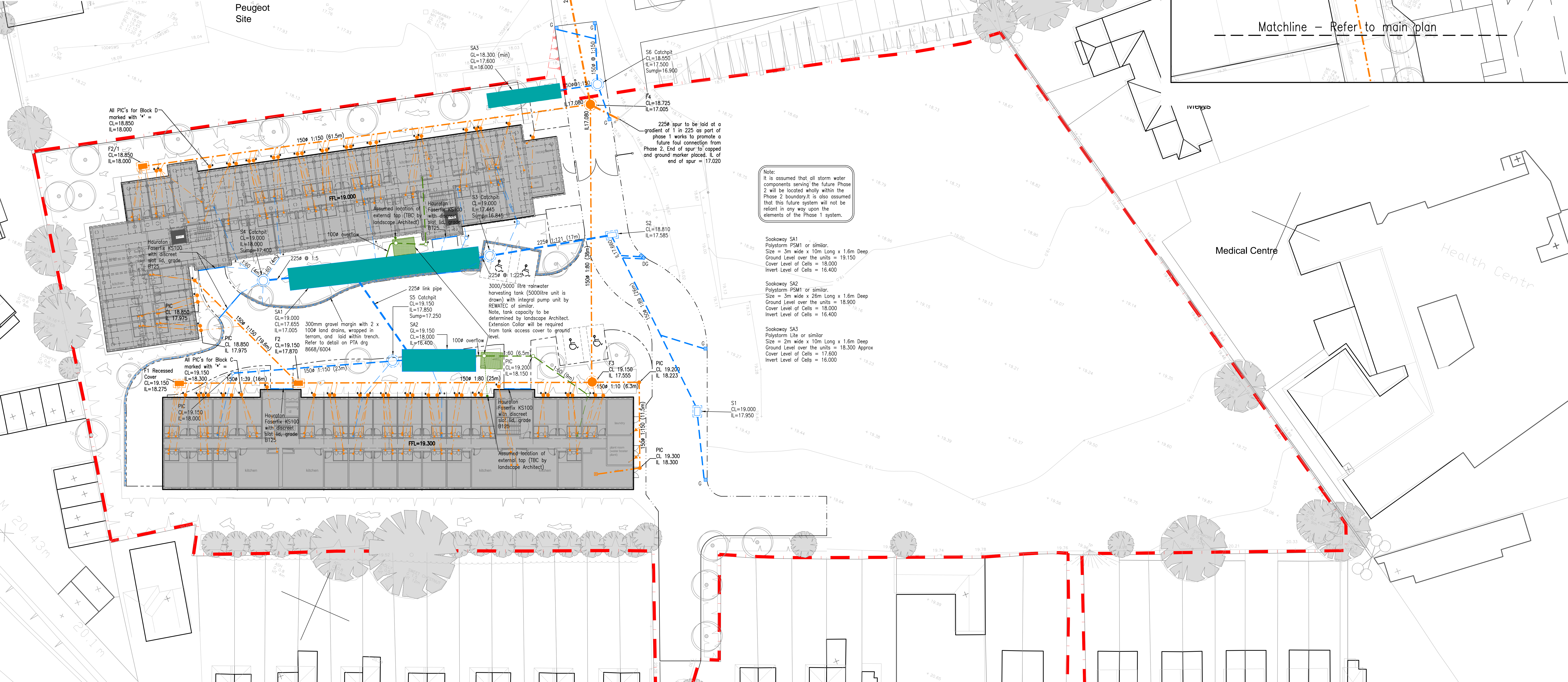
Refer to inset pane for continuation

Manhole Schedule

| MH Ref | Diagram | IL of connections | Depth to soffit | Overall depth | Cover size/grade | Remarks | Setting Out |
|--------|---------|---|-----------------|---------------|-------------------|--|-------------|
| F1 | | 0 1500 18.275 1 1000 18.325 | 0.725m | 0.875m | 600 x 600 C250 | Recessed Cover | |
| F2 | | 0 1500 17.870 1 1500 17.870 2 1500 17.870 | 1.130m | 1.280m | 750 x 675 B125 | | |
| F3 | | 0 1500 17.555 1 1500 17.555 2 1500 17.555 | 1.445m | 1.595m | 750 x 675 B125 | | |
| F4 | | 0 2250 17.005 1 2250 17.005 2 1500 17.080 3 1500 17.080 | 1.200m | 1.350m | 600 x 600 D400 | | |
| F2/1 | | 0 1500 18.000 1 1500 18.000 | 0.700m | 0.850m | 600 x 600 B125 | | |
| F5 | | 0 2250 15.663 1 2250 15.663 | 1.430m | 1.580m | 600 x 600 D400 | | |
| F6 | | 0 2250 14.347 1 2250 14.347 | 1.228m | 1.453m | 600 x 600 D400 | | |
| F7 | | 0 3000 13.300 1 2250 13.375 | 1.605m | 1.830m | 600 x 600 B125 | Built onto existing 3000 Public foul sewer. IL TBC | |
| S1 | | 0 1500 17.950 1 1500 17.950 | 0.900m | 1.050m | 600 x 600 D400 | | |
| S2 | | 0 1500 17.660 1 2250 17.585 | 1.000m | 1.225m | 450 x 400 B125 | | |
| S3 | | 0 2250 17.445 1 2250 17.445 | 1.330m | 2.155m | 600 x 600 B125 | Catchpit with sump. Sump level = 16.845 | |
| S4 | | 0 2250 18.000 1 1500 18.075 2 1500 18.075 3 1500 18.125 4 1500 18.125 | 0.775m | 1.600m | 450 x 400 B125 | Catchpit with sump. Sump level = 17.400 | |
| S5 | | 0 1500 17.850 1 1500 17.850 2 1500 17.850 | 1.150m | 1.900m | 600 x 600 D400 | Catchpit with sump. Sump level = 17.250 | |
| S6 | | 0 1500 17.500 1 1500 17.500 2 1500 17.500 | 1.330m | 2.155m | 600 x 600 D400 | Catchpit with sump. Sump level = 16.800 | |



- Notes:**
- Do not scale from this drawing.
 - In case of any discrepancies in drawings, details or bills, refer to engineers for clarification. Unilateral decisions by the Contractor will not be accepted.
 - This drawing is to be read in conjunction with all related Architects, Consultants & Sub-Contractors drawings and specifications.
 - The Contractor is advised that all design drawings and information are to be read concurrently and any discrepancies or omissions reported directly to PTA Civils' Department.
 - This drawing is based upon the survey by ? reference ? dated ? provided in digital format.
 - Levels are based on OSBM located on ? value?
 - The grid is of local origin.
 - The Contractor must check the levels of all existing drainage outfalls prior to construction of any drainage, unless otherwise agreed, to ensure the proposed design may be achieved. Any discrepancies must be reported immediately to PTA Civils' Department.
 - Subsoil exists on site, therefore all concrete to be in accordance with Class ___ of BRE Special Digest 1.
 - All external building dimensions are to be checked against the Architects drawings prior to any construction commencing.
 - All adoptable highway works to be in accordance with the Local Authorities Specifications.
 - Formation to road/roadside to be profiled and any soft spots in subgrade of road/roadside areas are to be excavated and replaced with well compacted sub-base or free draining granular material to Department of Transport Specification for Highway Works Part 2 Table 6/1 Class 1 (General Granular Fill) and compacted in accordance with Table 6/4.
 - Note - Sub-structure information is not available for Block C. As such further coordination is required when this information is available.
 - There are discrepancies between M&E information and Architectural layouts. As such all SVP's/SS's/RWP's are to be confirmed.



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COMMENT/COSTING/APPROVAL NOT FOR CONSTRUCTION SUBJECT TO THE FOLLOWING:

| Building Regulations | Submitted | Approved |
|------------------------|-----------|----------|
| Section 36 (Highways) | | |
| Section 104 (Drainage) | | |
| Environment Agency | | |
| Planning Conditions | | |

| Rev. | Description | By | Date | CHK'd |
|------|-------------|----|------|-------|
| | | | | |

Project Title
Canterbury Student Accommodation

Drawing Title
Site Layout and Drainage

Date: May 2013
Drawn: MS
Scale: 1:200@A0

This drawing is issued only for the purposes described in the drawing status box.

Project No. 8668
Drawing No. 6002