

MH REF	COVER LEVEL	INVERT LEVEL	DEPTH TO INVERT	CHAMBER TYPE	CHAMBER SIZE	REMARKS
F1	110.58	109.91	0.67	PPIC	450 Ø	New chamber constructed online of existing foul drain run. Invert level to be confirmed onsite prior to construction.
F2	110.95	109.75	1.20	PPIC	450 Ø	
F3	111.66	110.46	1.20	PPIC	450 Ø	
F4	110.80	109.60	1.20	PPIC	450 Ø	
F5	109.66	108.46	1.20	PPIC	450 Ø	
F6	108.36	106.00	2.36	PPIC	450Ø	Demarcation Chamber. Restricted access chamber.
S1	110.24	108.79	1.45	PC RING	1200 Ø	PC Ring Catchpit min 600mm sump.
S2	111.23	110.24	0.99	PPIC	450 Ø	
S3	110.80	109.90	0.90	PPIC	450 Ø	PPIC Catchpit Chamber min 300mm sump.
S4	110.92	108.45	2.47	PC RING	1200 Ø	IL from S5= 109.92
S5	111.70	110.60	1.10	PPIC	450 Ø	New chamber constructed online of existing surface water drain run. Invert level to be confirmed onsite prior to construction.
S6	109.77	108.27	1.50	PC RING	1200 Ø	PC Ring Catchpit min 600mm sump.
S7	108.63	106.63	2.00	PC RING	1200 Ø	HydroBrake Chamber. Unit ref. MD-SHE-0165-1360-1200-1360 Flow rate restricted to 13.6 l/s as per Waterman drawing DC2-WTM-CD-218-XX-DR-03-0500 rev C01 dated 28.02.20. HydroBrake to be installed on internal weir wall inline with manufacturers details. Sump depth as per manufacturers details.

**NOTES**

- Do not scale this drawing.
- This drawing is to be read in conjunction with all other relevant Engineer's and Architect's drawings and specifications.

**RISK ASSESSMENT**

**Residual Risks Identified**

- Previously an MOD site.

**Contractor's General Risk Items**

(List is not exhaustive but includes commonly raised issues)

- Location of all buried services.
- Existing drainage:
  - Gases, confined spaces, diseases.
  - Maintain flow in drains during works.
- Manual lifting of heavy objects; manhole covers, drainage pipes, concrete rings, kerbs, etc.
- Excavation for drainage trenches and manholes.
- Security:
  - Keep site secure from members of the public. maintain public safety when accessing site.

**Key:**

**Private Drainage**

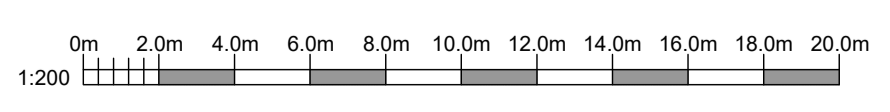
- 1500, 180 - Surface water drain.
- S1 - Surface water chamber. (CP denotes catchpit chamber minimum 300mm sump).
- R - Rain water down pipe.
- RE - Rodding eye.
- RG - Road gully, 1500Ø outlet.
- SU - Channel drain and sumpgully unit.
- TD - Threshold drain detail by Architect.
- S1 - Vortex flow control (HydroBrake).
- ATT1 - Prefabricated void forming attenuation tank.
- 1500, 180 - Foul water drain.
- F1 - Foul water chamber.
- SS - Stub stack.
- DP - Drain Point (Architect to confirm).
- SVP - Soil and vent pipe.
- FG - Trapped foul gully, 1000Ø outlet.

**Existing Drainage/Sewers**

- 1500 - Surface water drain to remain.
- 1500 - Foul water drain to remain.
- 1500 - Surface water drain to be abandoned and filled with p/a cement grout.
- 1500 - Foul water drain to be abandoned and filled with p/a cement grout.
- 1500 - Surface water sewer / public lateral to remain.
- 1500 - Foul water sewer / public lateral to remain.

**General**

- 109.83 - Existing level.
- Red arrow - Exceedance Routing.



**Note**  
Geocellular attenuation tank  
Length = 13.00m  
Width = 6.00m  
Structure Depth = 1.20m  
Cover Level = 109.19 (lowest point)  
Base Level = 106.68  
Soffit Level = 107.88  
Incoming Pipe Level = 108.68  
Tank to be installed and vented as per manufacturer's requirements.

**Note**  
New Foul and Surface Water connections subject to Southern Water S106 approval.

**Note**  
HydroBrake Chamber.  
Unit ref. MD-SHE-0165-1360-1200-1360  
Flow rate restricted to 13.6 l/s as per Waterman drawing DC2-WTM-CD-218-XX-DR-03-0500 rev C01 dated 28.02.20.  
HydroBrake to be installed on internal weir wall inline with manufacturers details.  
Sump depth as per manufacturers details.

**Note**  
Existing foul and surface water drains to serve adjacent development must remain active and be protected during and after construction.

**Note**  
Details of internal drainage to be confirmed.

**Note**  
All existing drainage serving adjacent development assumed to be redundant apart from chambers IC16 & IC18.

Rev	Date	By	Chkd.	Revision notes
-	06/11/23	JOD		Issued for comment.
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Newfoundland Road Deepcut				
Drawing Title				
Drainage Layout.				
Client				
Little Rock Developments Ltd				
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Drawn:	Checked:	Approved:		
Date: Nov/23	Date: Nov/23	Date:		
Drawing No.: 23-158_C02				Revision: -