

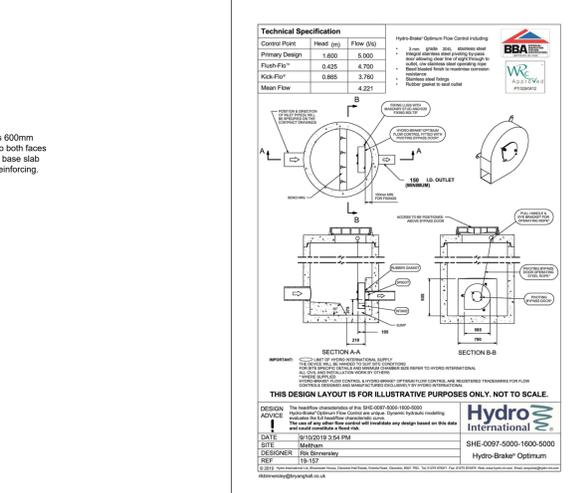
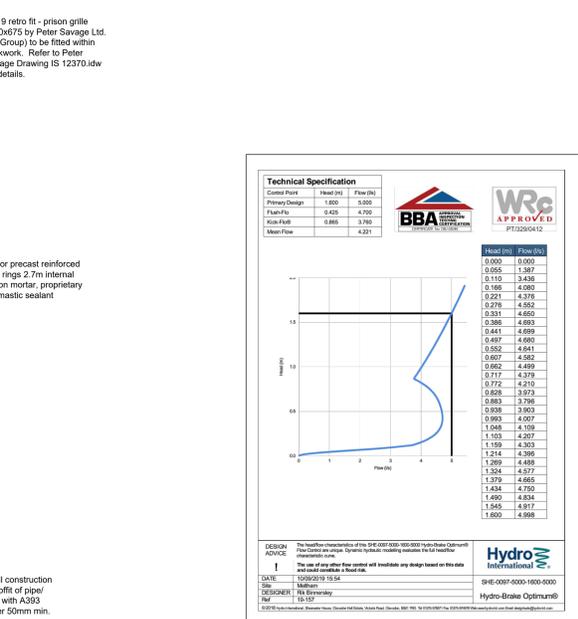
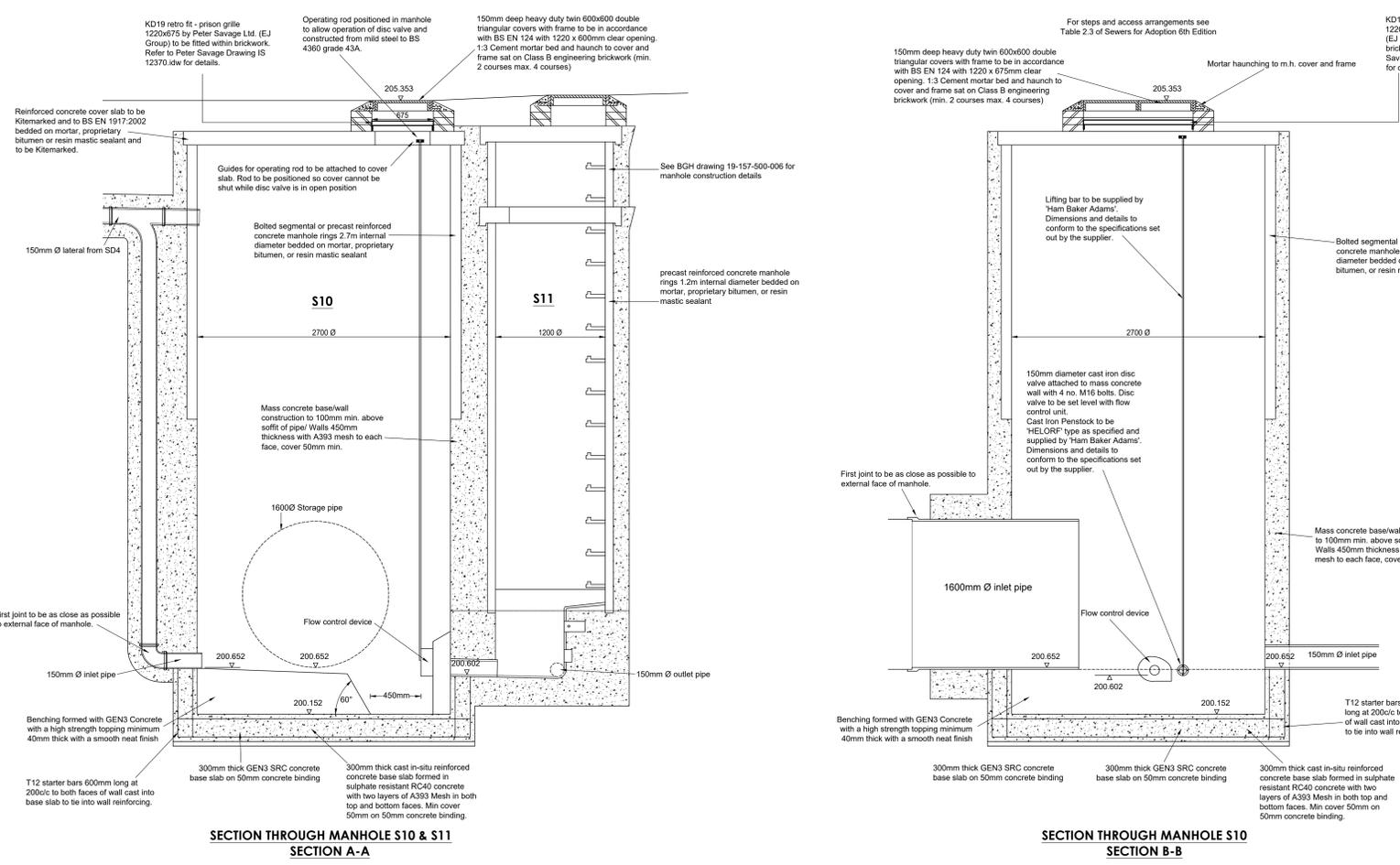
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It is the contractors responsibility to ensure full compliance with the Building Regulations. Do not scale from this drawing, use figured dimensions only. It is the contractors responsibility to check and verify all dimensions on site. Any discrepancies to be reported immediately.

**IF IN DOUBT ASK**

**NOTES:**

1. An adaptable sewer works and material to be in accordance with 'Sewers for Adoption' 6th Edition, The Relevant British/European and Yorkshire Water's Standards/Requirements/Appendix to the Mechanical and Electrical Specification and Kitemarked.
2. Manhole covers shall have a clear opening of 600mm and shall be Class D40 to BS EN 124 with 150mm deep frames in highways.
3. Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any cover works are carried out.
4. Yorkshire Water is not obliged to accept filter standard drainage run-off into the public sewer network or adaptable storage system (directly or indirectly). An alternative method of disposal of the load drainage run-off shall be agreed and you will have to liaise with the Local Authority, Land Drainage Section with regard to the disposal of the filter standard drainage run-off.
5. Cover slabs must carry the BS Kitemark or will be rejected by Yorkshire Water Inspectors. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a leading bearing slab should be fitted above the cover slab to bring the size down to 600mm x 600mm to the Yorkshire Water specified cover size. Please refer to Concrete Pipe Systems Association (CPSA), Technical Bulletin issued February 2004 for Kitemarked cover size opening sizes.
6. Sulphate resistant concrete (SR-CC) and precast concrete products must be used or a laboratory report provided that such provisions are not necessary.
7. The adaptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
8. Sewers must have 5 metres clearance from trees and hedges (please also refer to Figure 2.3 on page 3.1 in 'Sewers for Adoption' 6th Edition for restrictions on tree planting adjacent to sewers).
9. Sewers to be laid in Class 'B' bedding (150mm granular bed and surround). Where depth of cover to the base of the sewer is less than 1.2m in highways and verges for less than 600mm in non-vehicular access areas) then a concrete slab should be provided above granular bed and surround.
10. Bedding and backfill material to conform to the requirement of Water Industry Specification 4-0-02 (Table A2).
11. The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bends.
12. Yorkshire Water policy is not to accept Type 'C' brick manholes and 1000mm dia manhole rings. Instead it is preferred that you use a type 'B' manhole with 1200mm dia or 1500mm dia rings, with the opening sized over the channel where depth of cover to pipe soffit is 1 - 1.5m.



**GENERAL NOTES**

1. All adaptable sewer works and material to be in accordance with 'Sewers for Adoption' 6th Edition, the relevant British/European and Yorkshire Water's Standards/Requirements/Appendix and Kitemarked.
2. All custom built ironwork to be hot dipped galvanised prior to final fixing.
3. Warning signs are to be 40mm high red lettering on a white plastic base. The plastic base dimensions are to be approx. 300 x 300 x 6mm.
4. The base is to be resistant to attack by sewage environment.
5. The warning sign is to be mounted on a removable safety grid available from cover manufacturer.
6. The sign in this manhole is to be read 'CAUTION - HYDROBRAKE LOCATED HERE'.
7. A sign must be fitted in the upstream MH to read 'CAUTION - HYDROBRAKE DOWN STREAM'.
8. A sign must be fitted in the downstream MH which reads 'CAUTION - HYDROBRAKE UP STREAM'.
9. Stormwater House Clevedon Hall Estate Victoria Road Clevedon BS21 7RD, Tel: 01275 878371, www.hydro-int.com

MANHOLE	RING SIZE	COVER LEVEL	INVERT LEVEL	SUMP LEVEL
SW10	2700	205.353	200.602	200.152

Unit Type	Design Head	Design Flow
MD-SHE-0081-5000-3400-5000 by HYDRO INTERNATIONAL.	1.600m	5.0 l/sec

Rev: Date: Amendment: DRN: CHK

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Client: Pennine Developments Ltd.

Status: FOR APPROVAL

Scale: 1:25  
A0 - 841 x 1189  
Project: Proposed Development at Land Off Mill Moor Road, Meltham, Holmfirth

Title: FLOW CONTROL MANHOLE DETAILS (S10)

Drawing No: 19157/500/006  
Job No: 19-157

Revision: -  
Date: 03.10.19