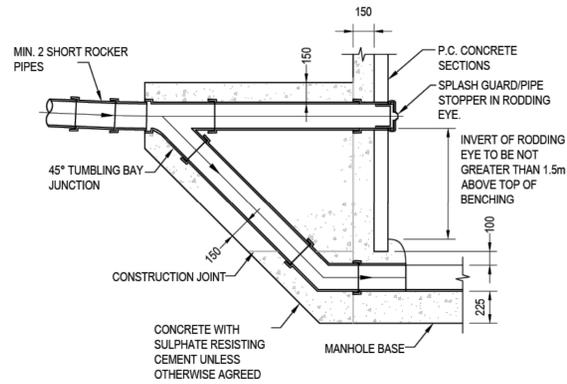
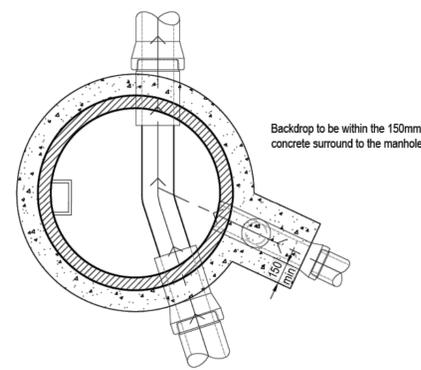




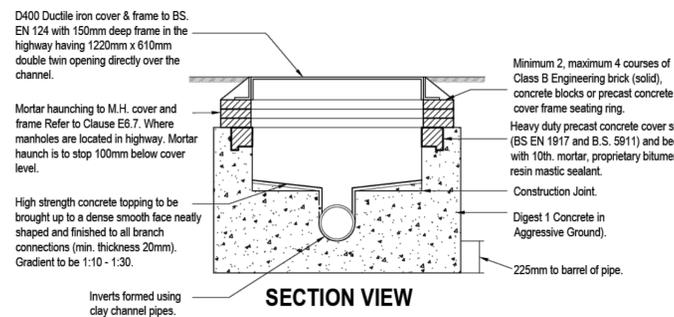
RAMPED BACKDROP DETAILS



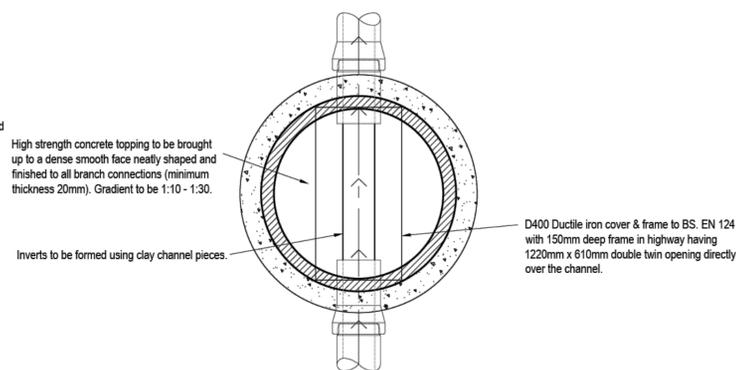
BACKDROP PLAN VIEW



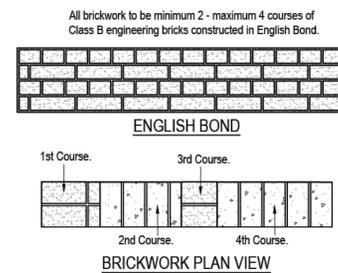
SHALLOW MANHOLE DETAIL



SHALLOW MANHOLE PLAN VIEW

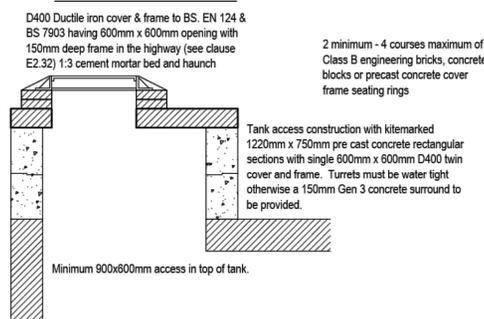


BRICKWORK DETAIL

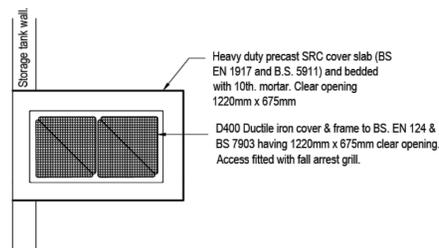
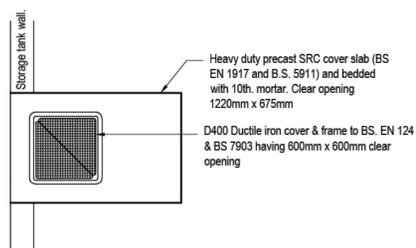
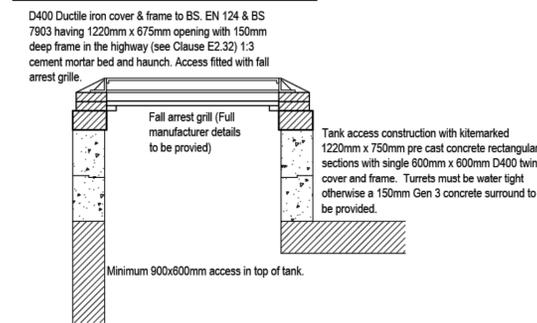


TANK ACCESS DETAILS

STANDARD TANK ACCESS



ACCESS OVER TANK INLET/OUTLET POINTS



Notes:

- All pipes shall be either:
 - A - Vitrified clay to BS EN 285 with a minimum crushing strength as follows:
 - 225 dia - 45 kN/m
 - 300 dia - 72 kN/m
 - B - PVC (certified to BS EN 438-01 & BS EN 13476)
 - C - Class 120 concrete to BS 5911-1:2002/EN 1916.
- All pipes should always connect soffit to soffit unless noted otherwise.
- All sewers to have BSI kitemark status (certified to WIS 4-35-01 & BS EN 13476). Maximum pipe length to be 3m. Plastic channel sections in manholes are not acceptable, Clay channel sections shall be used.
- Sewers to be laid in Class "S" Bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in non-vehicular access areas) then a concrete slab should be provided above granular bed and surround. Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
- Manhole covers shall have a clear opening of 600 and shall be class D400 to BS EN 124 with 150 deep frames in highways.
- Pipes entering manholes and road gullies shall have a flexible joint within 600 of the inside the manhole or gully joining with a short Rocker pipe.
- The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
- Sewers must have 5m clearance from trees and hedges or the width of the canopy at mature height.
- All trenches in roads and paved areas shall be backfilled with Type 1 DOT granular sub-base material, or other granular material approved by the highway authority.
- Filled ground must be filled and consolidated under the supervision and to the satisfaction of ICOSA Water before any sewer works are carried out.
- All insitu concrete to be designated mix FN02 to BS 8500-1 unless agreed otherwise.
- The invert levels at the proposed points of connection to existing public sewers shall be checked before any new drains are constructed. Any variation to the levels shown on the drawing shall be notified to Eastwood Consulting Engineers.
- 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.
- Cover levels are indicative only. Covers to be set to suit camber/gradient of existing and proposed roads.
- Cover slabs must carry the BSI Kitemark or will be rejected by ICOSA Water Inspector. Where the clear opening of the cover is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 600mm x 600mm for the ICOSA Water specified cover size. Please refer to Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued Autumn 2004 for Kitemarked cover slab opening sizes.
- All foul lateral sewers and drains to be 1500 unless noted otherwise.
- Manhole covers shall have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
- Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitably sized to accommodate standard lifting keys. Screw down covers are not acceptable.
- All adoptable sewer works and material to be in accordance with "Code for Adoption". The Relevant British/European and ICOSA Water's Standards/Requirements/Local Practice for the Adoption of Small Submersible Foul and Surface Water Pumping Stations and Kitemarked.
- ICOSA Water is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or indirectly). An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section with regard to the disposal of the filter drain/land drainage run-off.
- Sulphate resistant cement (C20-D/C2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
- Adoptable plastic sewer pipes to be BSI Kitemarked (certified to WIS 4-35-01 and BS EN 13476). Adoptable plastic sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and ICOSA Water would prefer clayware channel in manholes.
- There must be enough clearance at crossovers to accommodate bedding to both pipes, approx. 300mm if crossover is near the rocker then the clearance needed may need to be increased.
- All adoptable laterals to be 1500 and PVC unless stated otherwise.
- All FFLs to be a minimum 150mm above external levels and drainage cover levels.

NOTE:
For all clauses and table references please refer to the Design and Construction Guidance contained within the Code for Adoption.

REV: # DATE: ####/###/## DRAWN: ## CHECKED: ##

Revision text

Revisions



Harron Homes Limited
Unit 1 Cliffe Park
Bruncliffe Road
Morley
Leeds
LS27 0RY

Tel: 0113 204 4670
Fax: 0113 204 4677
Web: www.harronhomes.co.uk

Status: PLANNING

Project: NETHERTON

Title: ADOPTABLE-DRAINAGE-DETAILS SHEET-3

Drawn: JS Date: 12-08-25

CHECKED Scale @ A1:1:25

Job no: 652 Drg No: 652-003 Rev: -