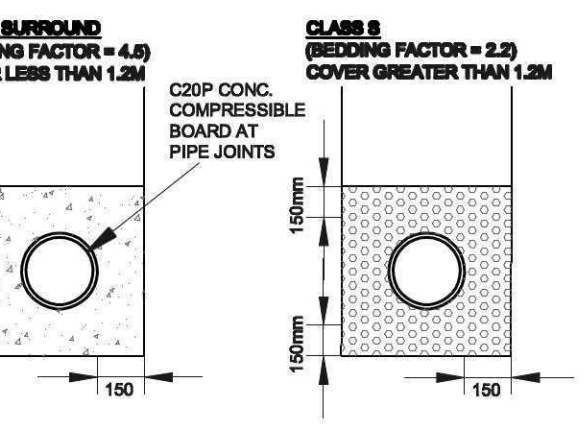
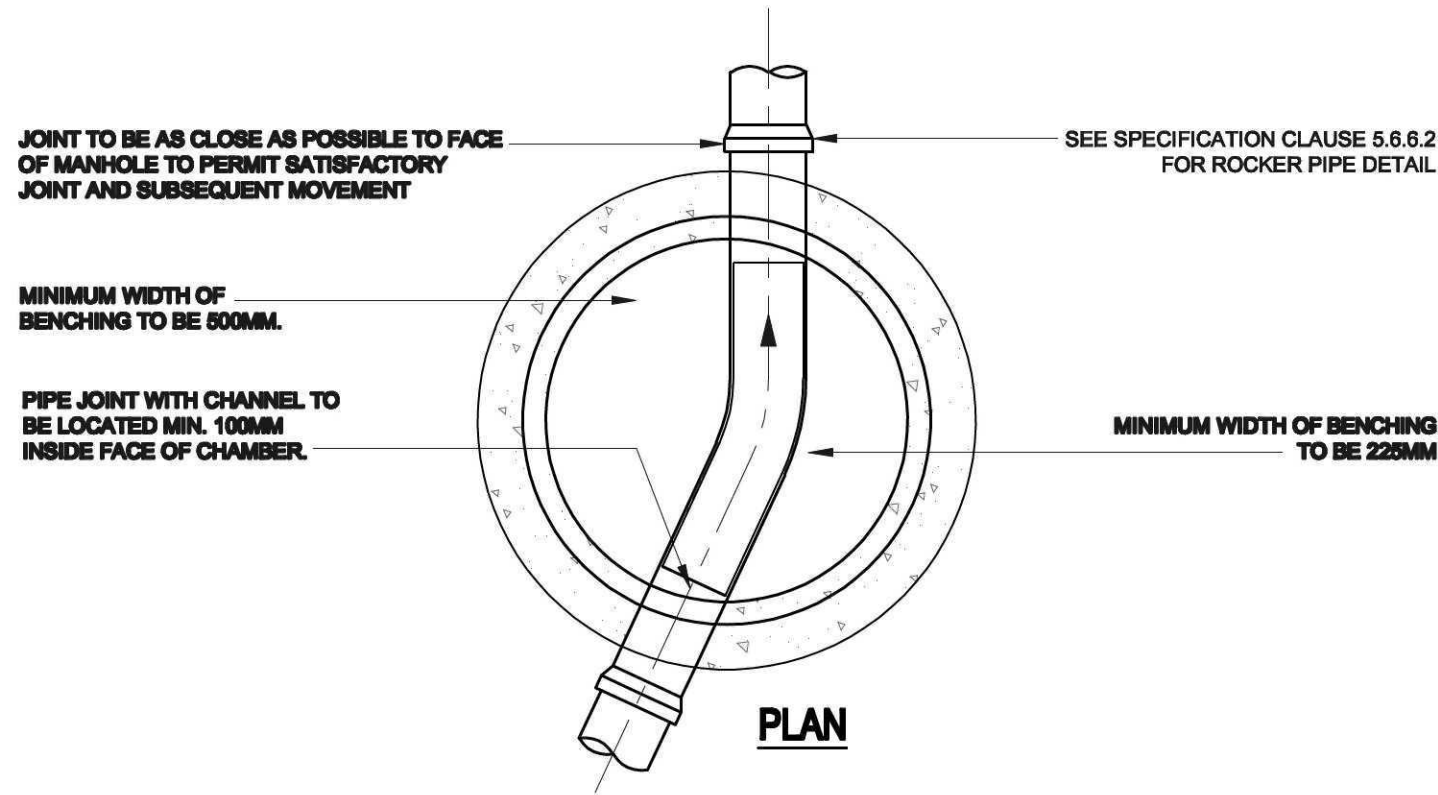
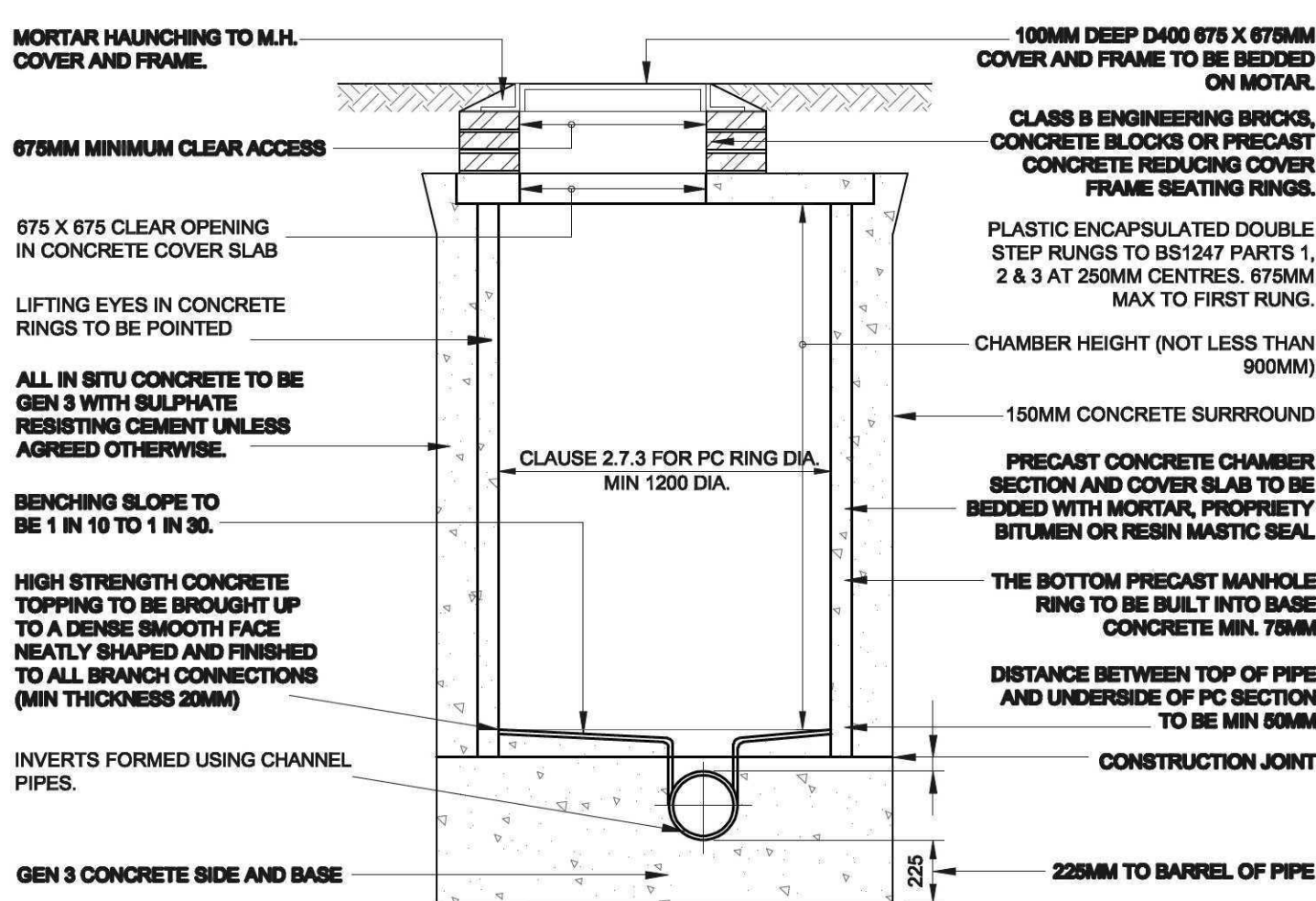


GENERAL NOTES

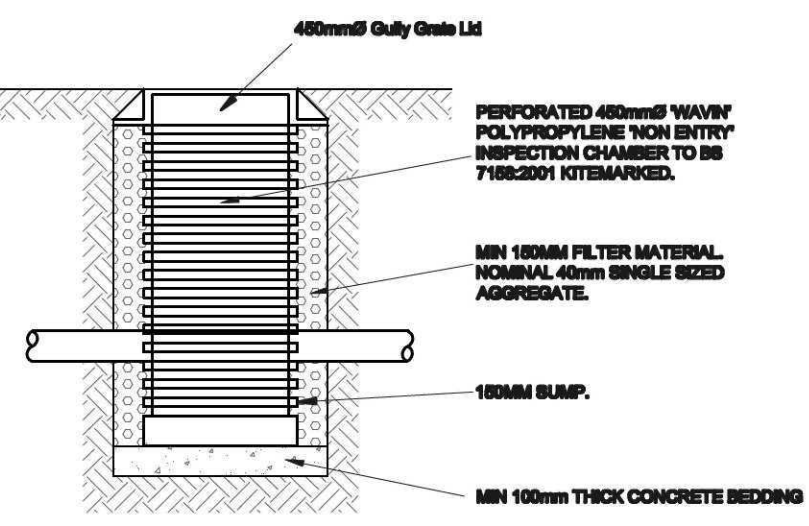
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS AND ARCHITECTS DETAILS.
2. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT BRITISH STANDARDS, CODES OF PRACTICE AND BUILDING REGULATIONS.
3. THE EXACT POSITION, LEVEL, SIZE AND USE OF EXISTING SEWERS TO BE CONFIRMED ON SITE. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORKS.
4. ALL UNCOVERED AND SHALLOW PIPEWORK TO BE PROTECTED AGAINST CONSTRUCTION TRAFFIC AS PART OF THE CONTRACTORS TEMPORARY WORKS REQUIREMENTS.
5. PROPOSED DRAINAGE PASSING THROUGH NEW FOUNDATIONS TO BE SLEAVED WITH CAST-IN OVERSIZED PIPEWORK.
6. EXACT LOCATION LINE AND LEVEL OF EXISTING STUBS TO EXISTING MANHOLES IN THE ROAD TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
7. COVER LEVELS SHOWN ARE APPROXIMATE ONLY, SUBJECT TO THE ARCHITECT'S EXTERNAL WORKS AND LANDSCAPING SCHEME.
8. SEE ARCHITECT'S DETAILS FOR ALL SETTING OUT DIMENSIONS TO BUILDINGS AND BOUNDARIES ETC
9. ALL CONNECTIONS TO ROAD GULLIES AND CHANNELS SHALL BE 100MM NOMINAL BORE PIPEWORK. CONNECTIONS TO RWPS TO BE 100MM NOMINAL BORE PIPEWORK SUBJECT TO CONFIRMATION OF RWP SIZES AND/OR DESIGN FLOW. NO PIPE WORK TO BE DOWN SIZED IN THE DIRECTION OF FLOW.
10. CONNECTIONS TO POUL TERMINAL FITTINGS TO BE 100MM NOMINAL BORE PIPEWORK SUBJECT TO CONFIRMATION OF ABOVE GROUND PIPE DIAMETERS AND/OR DESIGN FLOW. NO PIPE WORK TO BE DOWN SIZED IN THE DIRECTION OF FLOW.
11. ALL UNNOTED PIPEWORK TO BE 100MM DIA. UNLESS SUBJECT TO THE NOTES ABOVE.
12. ALL PIPEWORK TO BE U-PVC TYPE IN ACCORDANCE WITH W8 4-35-01 UNLESS OTHERWISE NOTED.
13. PIPES UP TO AND INCLUDING 150MM DIA. TO BE 280NM STRENGTH CLAYWARE TO BS EN 286; 1991.
14. AS AN ALTERNATIVE TO U-PVC, PIPES UP TO AND INCLUDING 150MM DIA. MAY BE 280NM STRENGTH CLAYWARE TO BS EN 286; 1991.
15. PIPES ABOVE 150MM DIA. AND UP TO AND INCLUDING 300MM DIA. TO BE 380NM STRENGTH CLAYWARE TO BS EN 286; 1991.
16. AS AN ALTERNATIVE TO U-PVC, PIPES ABOVE 150MM DIA. UP TO AND INCLUDING 300MM DIA. MAY BE 380NM STRENGTH CLAYWARE TO BS EN 286; 1991.
17. PIPES ABOVE 300MM DIA. TO BE CLASS M (SRPC) CONCRETE PIPES TO BS 5911 WITH SPIGOT AND SOCKET FLEXIBLE JOINTS.
18. AS AN ALTERNATIVE TO U-PVC, PIPES ABOVE 300MM DIA. UP TO AND INCLUDING 300MM DIA. MAY BE CLASS M (SRPC) CONCRETE PIPES TO BS 5911 WITH SPIGOT AND SOCKET FLEXIBLE JOINTS.
19. ALL NON-ARCHITECTURAL PIPEWORK AND FITTINGS NOTED AS CAST IRON, TO BE FROM THE 'SERRAN' RANGE BY SANTI GOSMAN PIPELINES. SUITABLE FOR ABOVE OR BELOW GROUND USE AS APPROPRIATE, OR SIMILAR APPROVED. ALL TO COMPLY WITH THE REQUIREMENTS OF BS EN 877.
20. ALL PIPEWORK ENTERING AND EXITING MANHOLES TO BE CONNECTED WITH PIPE SOFFITS LEVEL.
21. PRE-FORMED CHANNELS TO BE USED AT ALL MANHOLES.
22. HIGH STRENGTH CONCRETE BENCHING TO BE STEEL TROWELLED TO A DENSE SMOOTH FACE NEATLY SHAPED AND FINISHED TO ALL BRANCH CONNECTIONS AND LAID IN ACCORDANCE WITH THE SPECIFICATION.
23. PIPE BENDS TO BE PROVIDED TO SUIT DIRECTION OF FLOW.
24. ALL MANHOLE COVERS AND FRAMES TO BE DUCTILE IRON HEAVY DUTY GRADE D400 DOUBLE TRIANGULAR TO BS EN 124 UNLESS OTHERWISE NOTED.
25. GULLY TOPS AND MANHOLE COVERS TO BE PROVIDED IN ACCORDANCE WITH BS EN124.
26. ALL MANHOLE COVERS LOCATED INTERNALLY, TO BE RECESSED, DOUBLE SEAL, AIRTIGHT TYPE, ALUMINIUM OR STEEL. RECESS DEPTH TO ARCHT'S REQUIREMENTS TO SUIT FINISHES ETC.
27. ALL NEW DRAINAGE TO BE CONSTRUCTED ADJACENT NEW AND PROPOSED TREE PLANTING TO BE PROTECTED AGAINST ROOT ACTIVITY USING 'ROOTCONTROL' ROOT BARRIER MATERIAL BY GREEN-TECH. ALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
28. FIRST FLEXIBLE JOINT IN PIPES ADJACENT TO A MANHOLE SHALL BE 800MM MAX. FROM INSIDE FACE OF MANHOLE, CONNECTING TO ROCKER PIPE. FOR PIPE DIAMETERS 150MM - 450MM THE ROCKER PIPE LENGTH SHALL BE 800MM - 750MM AND FOR PIPE DIAMETERS 450MM - 675MM THE ROCKER PIPE LENGTH SHALL BE 750MM - 1000MM.
29. MANHOLES WITH OUTGOING PIPES GREATER THAN 800MM DIA. SHALL BE FITTED WITH GUARD BARS, SAFETY CHAINS OR OTHER APPROVED SAFETY DEVICES.
30. ALL SOFT SPOTS ENCOUNTERED IN THE TRENCH FORMATION TO BE REMOVED AND REPLACED WITH GRADED GRANULAR MATERIAL UNLESS INSTRUCTED OTHERWISE.
31. ALL PIPEWORK BELOW ROAD AND CAR PARKING WITH LESS THAN 1200MM COVER SHALL BE PROTECTED WITH A 150MM MIN FIN22 CONCRETE SURROUND WITH FLEXIBLE ISOLATION JOINTS @ 2.0M MAX. CENTRES TO COINCIDE WITH PIPE JOINTS.
32. ALL BURIED CONCRETE MUST CATER FOR CLASS 2 SULPHATES CONDITIONS IN ACCORDANCE WITH TABLE 1 OF BRE DIGEST 303.
33. THE DESIGN OF ANY TEMPORARY WORKS REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TYPICAL TYPE B MANHOLE DETAIL (1:20)



TYPICAL PIPE BEDDING DETAILS (NTS)

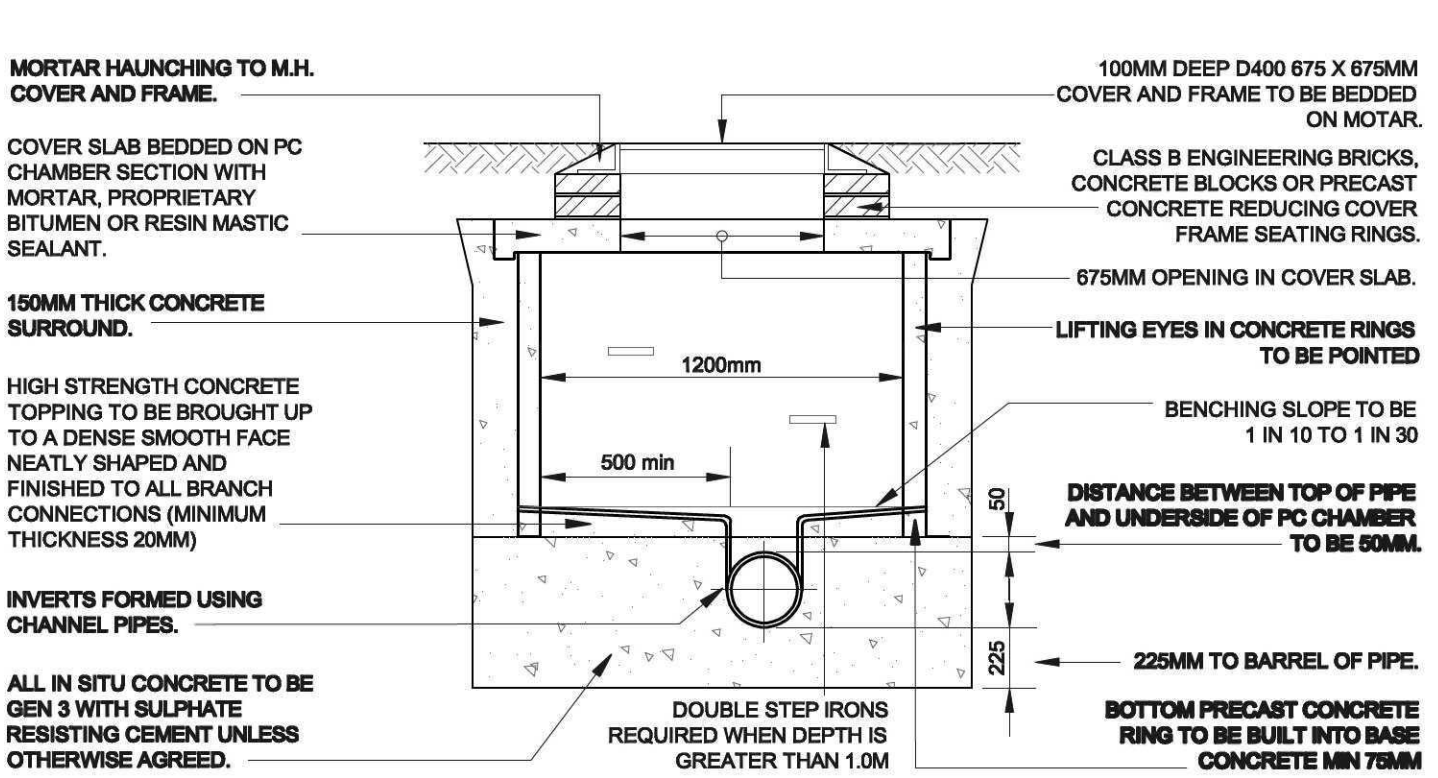
- NOTES:
- 1) ANY SUITABLE EXCAVATED MATERIAL USED AS BACKFILL TO BE APPROVED ON SITE BY ENGINEER.
- 2) GRANULAR SURROUND TO BE SINGLE SIZED AGGREGATE, 10 OR 14MM IN SIZE.
- 3) TRENCH IN PUBLIC HIGHWAY: WHERE DEPTH FROM GL TO CROWN OF PIPE IS LESS THAN 1.2M BED AND SURROUND IN C20 CONCRETE.
- 4) TRENCH IN PRIVATE LAND: WHERE DEPTH FROM GL TO CROWN IS LESS THAN 0.9M BED AND SURROUND IN C20 CONCRETE.



Manhole S2a & S2b
450ØMM Plastic 'Non-Entry' IC Detail

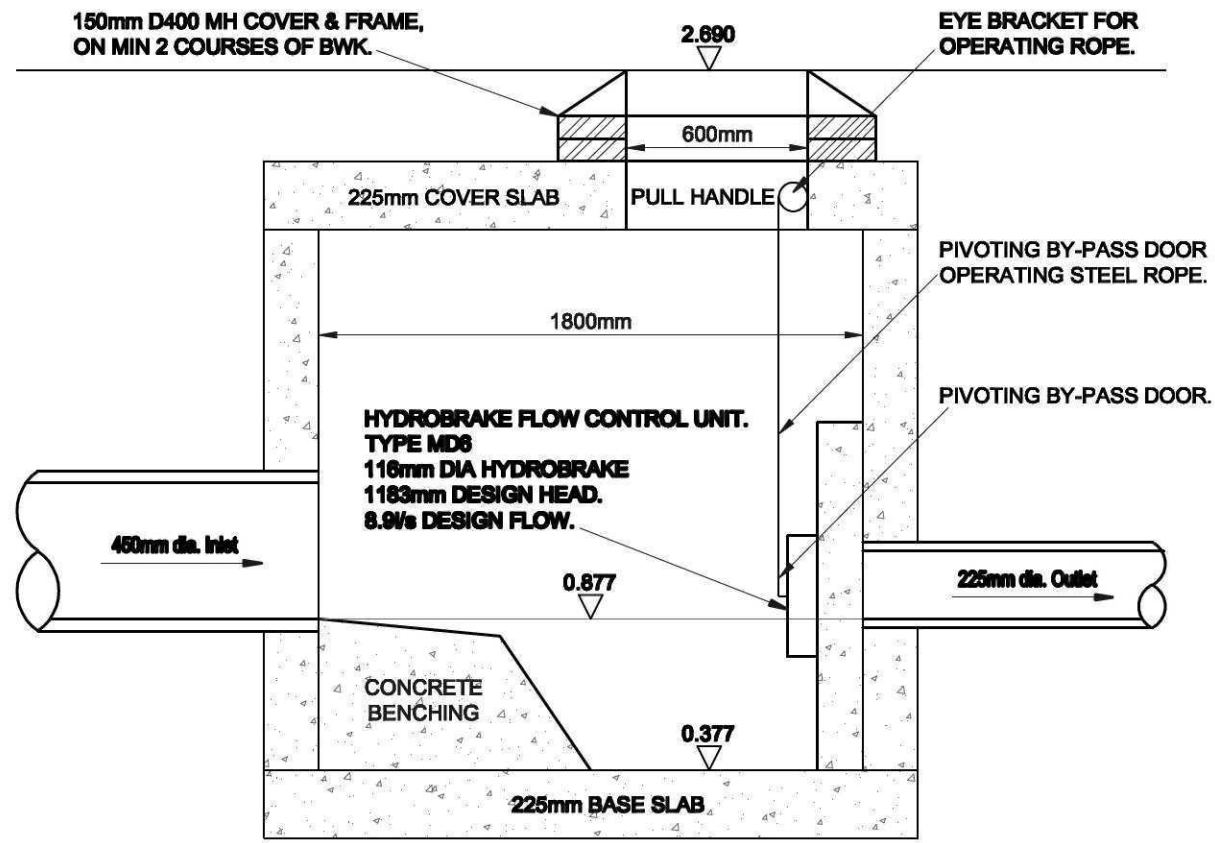
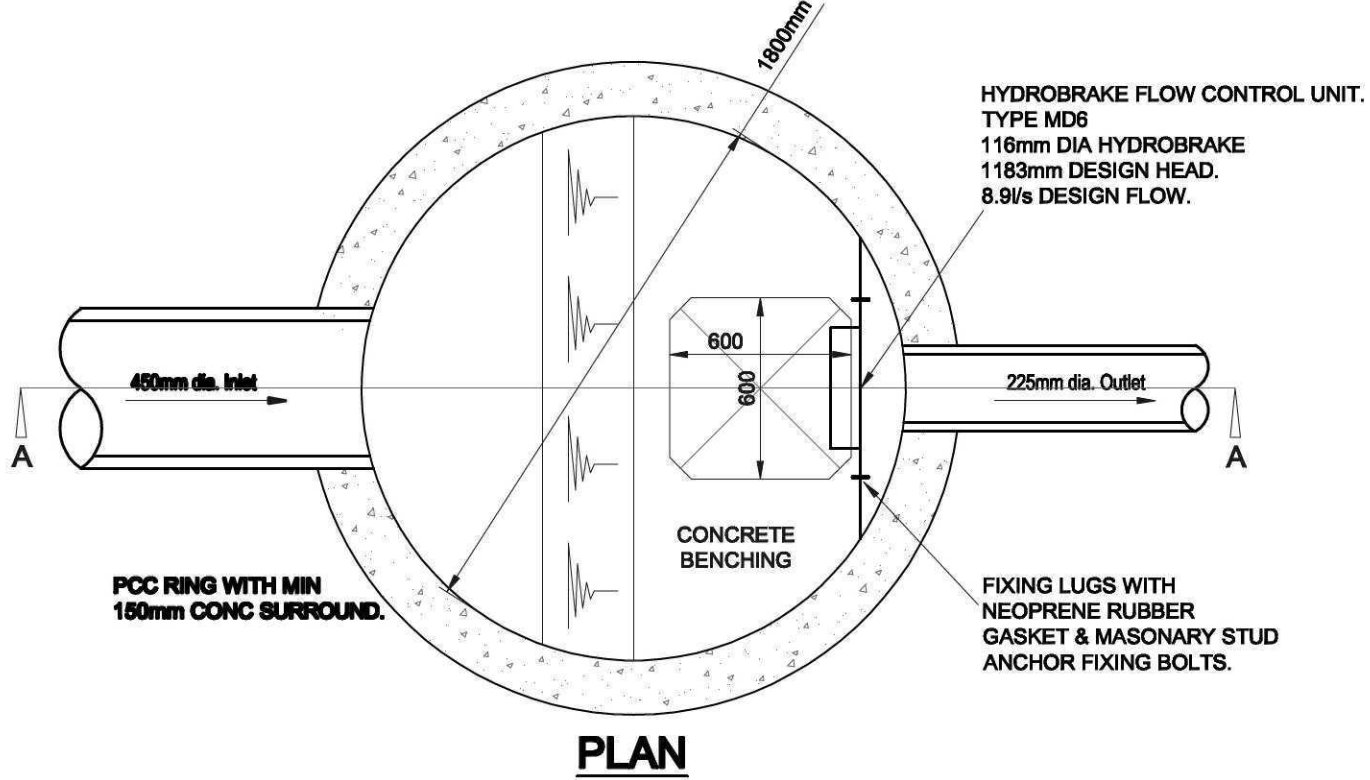
Note: All work will comply with the current Sewers for Adoption guide and any Anglian Water amendments to that document

TYPICAL TYPE E MANHOLE DETAIL (1:20)



Type E manhole will require double step rungs if the depth is greater than 1.0m

CONTROL CHAMBER S10 DETAIL (NTS)



SECTION A-A

B) Drawing altered to suit L.C.C Highway comments. LC. 29/08/11
A) Plan amended to suit Anglian Waters comments. DM. 05/08/11
Revisions:

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Drawing status **Tender**

Drawing title
**Adoptable Drainage
Construction Details**

Project title
**Lime Walk
Long Sutton
Lincolnshire**

Drawn	DM	Approved	
Date	18/03/11	Drawing No	WD/157/21B
Scale	As Shown @ A2		