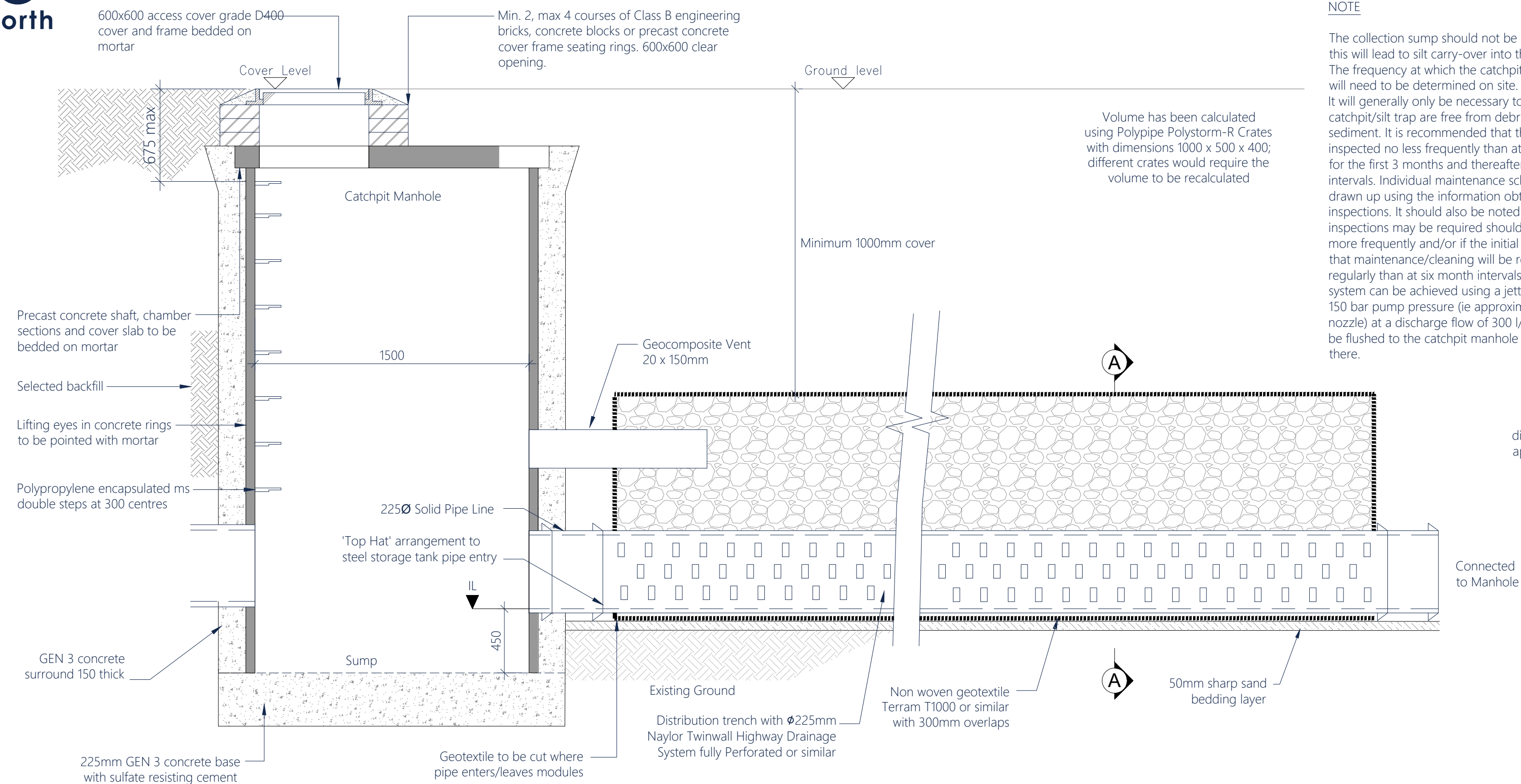


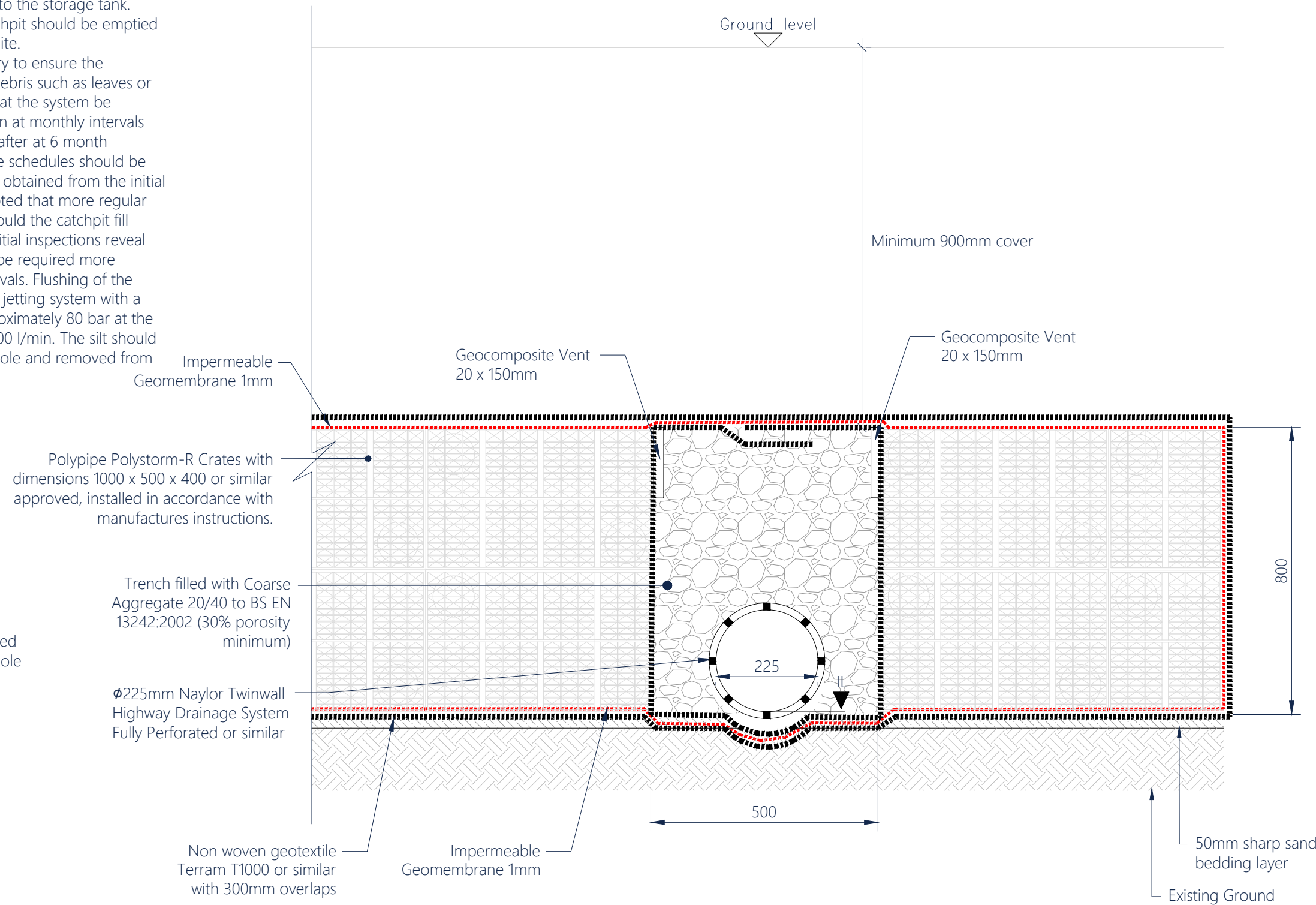


### NOTE

The collection pump should not be allowed to overflow as this will lead to silt carry-over into the storage tank. The frequency at which the catchpot should be emptied will need to be determined on site.

It will generally only be necessary to ensure the catchpot/silt trap are free from debris such as leaves or sediment. It is recommended that the system be inspected no less frequently than at monthly intervals for the first 3 months and thereafter at 6 month intervals. Individual maintenance schedules should be developed using the information obtained from the initial inspection. It should also be noted that more regular inspections may be required should the catchpit fill more frequently and/or if the initial inspections reveal that maintenance/cleaning will be required more regularly than at six month intervals. Flushing of the system can be achieved using a jetting system with a 150 bar pump pressure (ie approximately 80 bar at the nozzle) at a discharge flow of 300 l/min. The silt should be flushed to the catchpit manhole and removed from there.

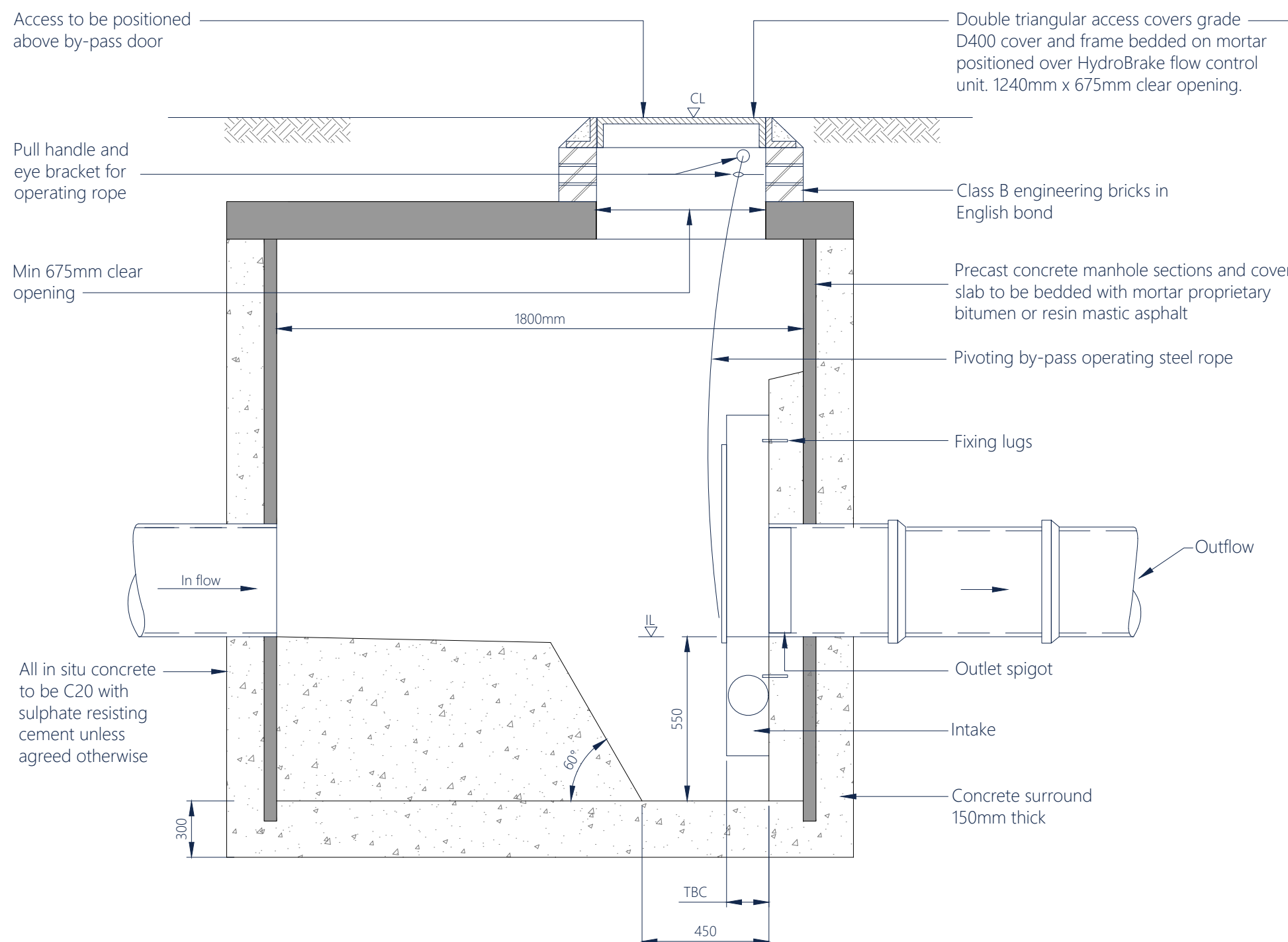
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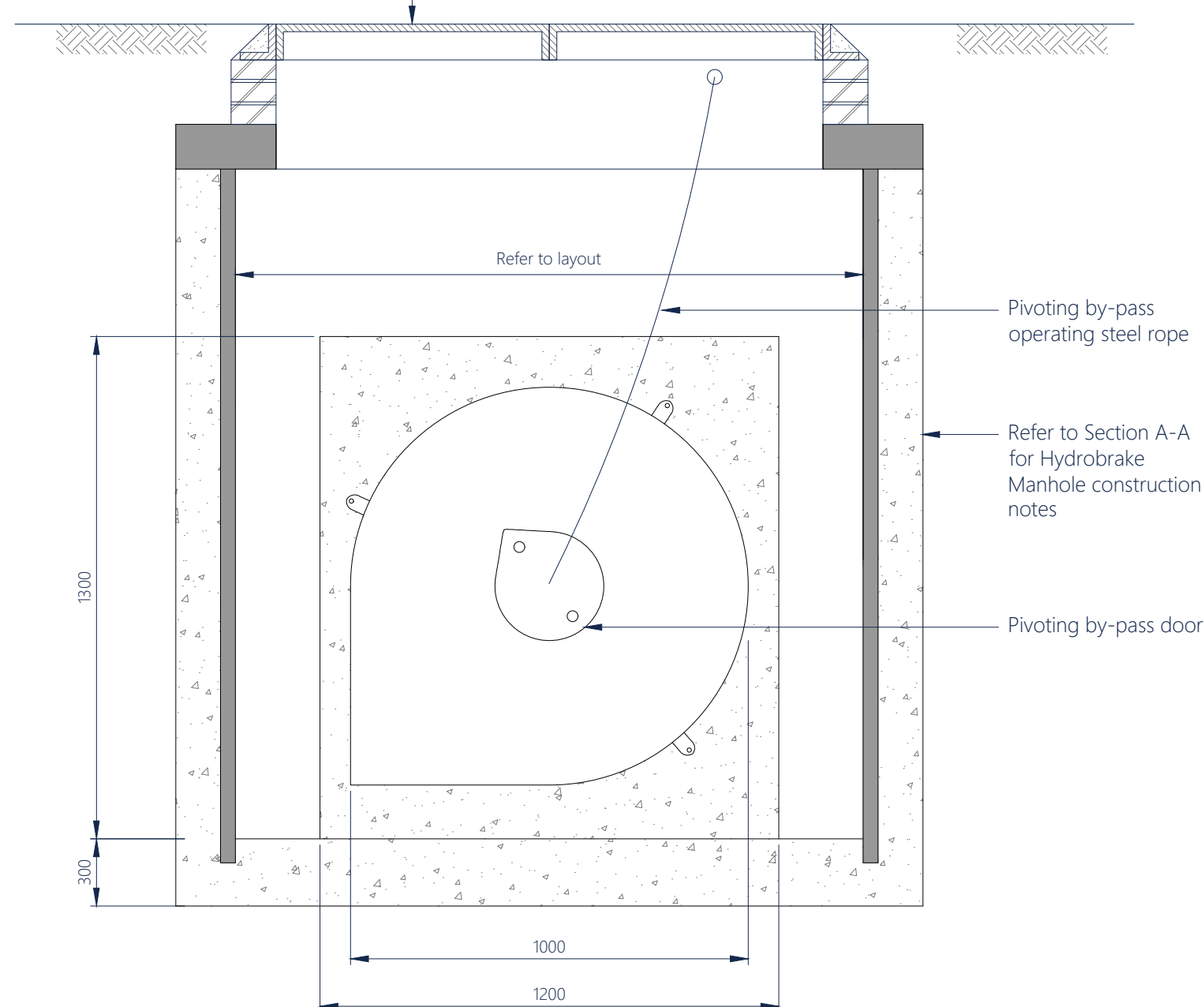
DISTRIBUTOR FILTER TRENCH WITH  
Ø225mm FULLY PERFORATED PIPE -SECTION A-A

- GENERAL NOTES:**
1. DO NOT SCALE FROM THIS DRAWING.
  2. ALL PRIVATE DRAINAGE SHALL BE IN ACCORDANCE WITH BS8301 AND RELEVANT SECTIONS OF APPROVED DOCUMENT H OF THE BUILDING REGULATIONS AND BS EN 752
  3. ALL ADAPTABLE SEWERS TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST MANHOLE INSPECTOR GUIDANCE - DESIGN & CONSTRUCTION CODE GUIDANCE.
  4. THE CONTRACTOR IS TO CHECK THE LEVEL OF EXISTING SEWERS BEING USED AS OUTFALLS OR CROSSING PROPOSED DRAINAGE RUNS PRIOR TO LAYING ANY PIPES. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER.
  5. ALL CONNECTIONS FOR FOUL DRAINAGE SHALL BE 100mm UNLESS NOTED OTHERWISE. ALL CONNECTIONS WHEN LAID SHALL BE PLUGGED, PROTECTED AS NECESSARY AND MARKED WITH A STAKE FOR FUTURE USE.
  6. ALL CONNECTIONS FOR STORM DRAINAGE SHALL BE 150mm UNLESS NOTED OTHERWISE. ALL CONNECTIONS WHEN LAID SHALL BE PLUGGED, PROTECTED AS NECESSARY AND MARKED WITH A STAKE FOR FUTURE USE.
  7. FOR PRIVATE DRAINS WHERE COVER TO PIPES IS LESS THAN 900mm IN VEHICULAR AREAS OR 600mm IN OTHER AREAS PROTECTION IN THE FORM OF TYPE Z BEDDING SHALL BE USED.
  8. WHERE PIPES PASS THROUGH SCREEN WALLS, FOOTINGS OR RETAINING WALLS LINTELS ARE TO BE PROVIDED OVER UNDER BUILDING DRAINS SHALL BE SURROUNDED WITH 150mm THICKNESS OF GRANULAR MATERIAL. WHERE DRAINS PASS WITHIN 1m OF BUILDINGS THE WALL FOUNDATION SHALL BE TAKEN DOWN BELOW THE INVERT OF THE PIPE.
  9. ALL GULLIES AND RAINWATER DOWNPIPES CONNECTED DIRECTLY TO DRAINS ARE TO BE RODDABLE.
  10. ALL GULLIES TO BE TRAPPED.
  11. ALL DRAINAGE SHALL BE LAID UPSTREAM AND EACH RUN BETWEEN MANHOLES SHALL BE LAID COMPLETE PRIOR TO BACKFILLING. WHERE THIS IS NOT PRACTICAL TRIAL HOLES OR OTHER MEANS OF IDENTIFYING THE LINE AND LEVEL OF SERVICES SHALL BE CARRIED OUT PRIOR TO WORKS COMMENCING.
  12. INTERNAL FOUL DRAINAGE TO BE LAID AT A MINIMUM GRADIENT OF 1 IN 40 IN ACCORDANCE WITH BS830.
  13. THE FIRST MANHOLE UPSTREAM FROM THE CONNECTION POINT TO THE (EXISTING) PUBLIC SEWER SHOULD, WHEN CONSTRUCTED BE FITTED WITH A TEMPORARY SCREEN IN ORDER TO PREVENT DEBRIS ENTERING THE PUBLIC SEWER. THE SCREEN SHOULD NOT BE REMOVED UNTIL IMMEDIATELY PRIOR TO THE OCCUPATION OF THE PREMISES TO BE SERVED BY THE SEWER.
  14. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND LEVELS ON SITE.
  15. SETTINGS OUT TO BE CONFIRMED BY THE ARCHITECT.
  16. ALL INTERNAL FOUL DRAINAGE TO BE TRAPPED AND OR HAVE DOUBLE SEALED MANHOLE LIDS AS REQUIRED TO COMPLY WITH BUILDING REGS.
  17. ALL EXISTING DRAINAGE LEVELS, DIAMETERS & LOCATIONS NEED TO BE CHECKED ON SITE PRIOR TO ANY DRAINAGE WORKS, AND ANY DISCREPANCIES NEED TO BE REPORTED BACK TO THE ENGINEER.
  18. COVER LEVELS FOR MANHOLES ARE APPROXIMATE ONLY AND SHOULD BE ADJUSTED TO MATCH SURROUNDING LEVELS.
  19. ALL MANHOLE AND DRAINAGE COVERS SHALL COMPLY WITH BS EN124. MANHOLE COVERS WITH BLOCK PAVED AREA AND BUILDINGS SHALL BE RECESSED. COVER STRENGTHS TO BE:-
    - CLASS E600 IN AREAS OF HEAVY LOADING (IE HG AREAS)
    - CLASS D400 IN TYPICAL TRAFFICKED AREAS
  20. ALL CONCRETE TO DRAINAGE, MANHOLES BASES, SURROUNDS ETC TO BE IN ACCORDANCE WITH THE BRE SPECIAL DIGEST 1 - CONCRETE AGGRESSIVE GROUND. REFER TO SITE INVESTIGATION REPORT FOR SULPHATE REQUIREMENTS.
  21. ALL MANHOLES, PIPE TRENCHES ETC TO BE BACKFILLED WITH IMPORTED GRANULAR FILL TO CLASS BF1-BF5 (CAPPING MATERIAL) TO (SHW) TABLE 8/1 & COMPACTED IN ACCORDANCE WITH TABLE 6/4.
  22. ALL PIPELINES SHALL BE TESTED BOTH BEFORE AND AFTER BACKFILLING. USING EITHER AIR TEST OR WATER TEST, IN ACCORDANCE WITH BS EN 1610.
  23. ALL PIPELINES SHALL BE SUBJECT TO A POST COMPLETION JET & CCTV SURVEY WITH VIDEO FOOTAGE & PDF REPORT IN LINE LATEST VERSION OF THE WRC MANUAL OF SEWER CLASSIFICATION.
  24. **SITE SPECIFIC NOTES**
  25. SURFACE WATER RUNOFF FROM THE ROAD TO DRAIN INTO FOUL WATER SEWER DUE TO RISKS OF POLLUTANTS AND INFECTIOUS MATERIAL. THIS IS SUBJECT TO A TRADE EFFLUENT CONSENT FROM SEVERN TRENT WATER.
  26. IN THE EVENT OF A FIRE, PENSTOCKS ON ALL PIPES DISCHARGING FROMKILLING. SITE WORK TO BE CLOSED IN ORDER TO PREVENT CONTAMINATED WATER FROM BEING DISCHARGED. ANY WATER USED TO FIGHT FIRES WILL BE CONTAINED ONSITE AND DISPOSED OF AS HAZARDOUS WASTE.
  27. THIS DRAWING IS SUBJECT TO APPROVAL BY LOCAL AUTHORITY, BUILDING CONTROL, SEWERAGE UNDERTAKER AND THE ENVIRONMENT AGENCY. ANY WORKS UNDERTAKEN PRIOR TO THE GRANTING OF THESE APPROVALS IS CARRIED OUT AT RISK.

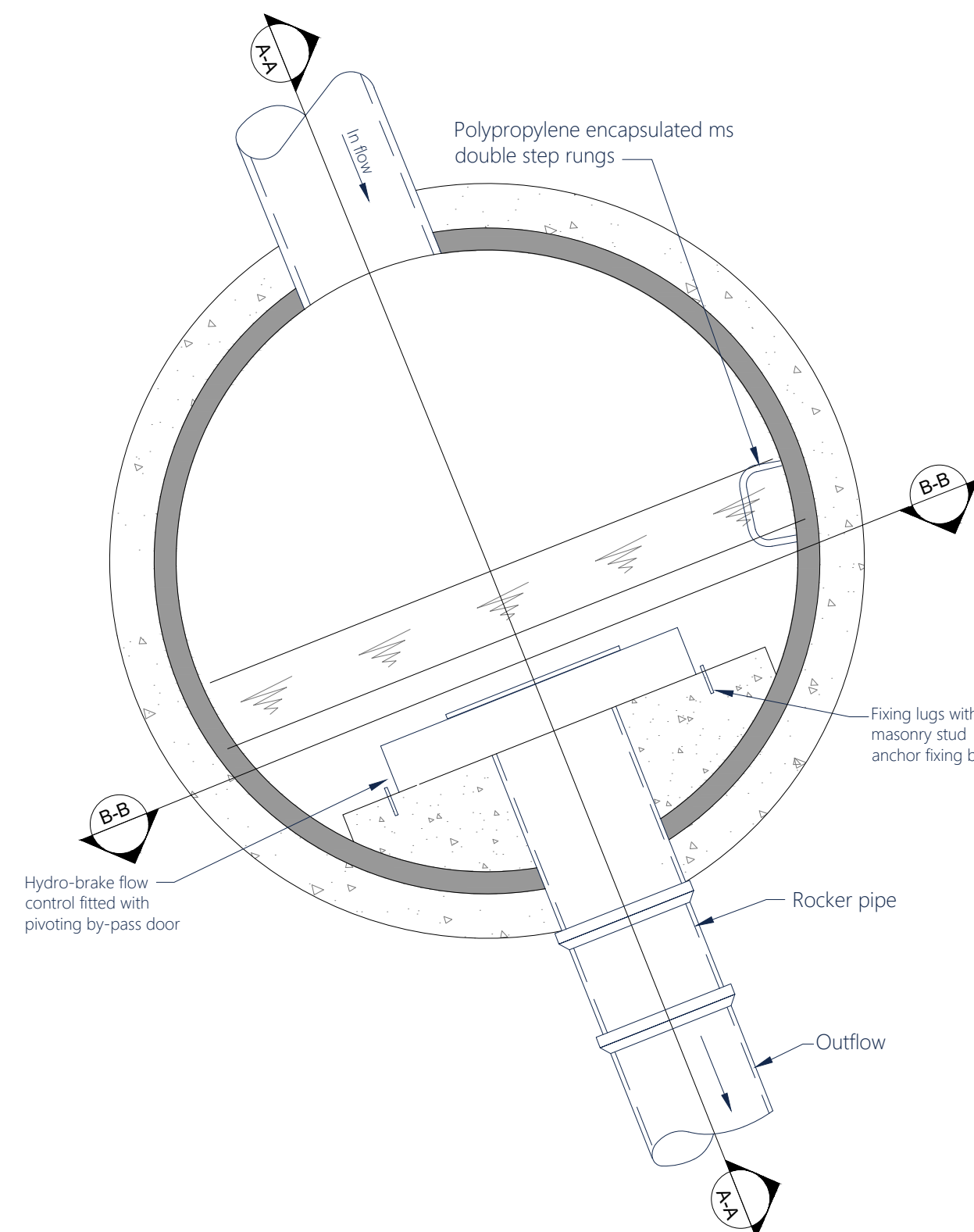
| Flow Control Chamber Table |                       |                     |             |             |          |              |                        |
|----------------------------|-----------------------|---------------------|-------------|-------------|----------|--------------|------------------------|
| Manhole                    | Internal Manhole size | Flow Control Device | Design Head | Design Flow | Diameter | Invert Level | Manufacturer Reference |
| S10 HB                     | 1800Ø                 | Crown Vortex Valve  | 1.95m       | 73.0 l/s    | 297mm    | 37.33m       | R1 SW-0297-7300-1950   |



HYDROBRAKE CHAMBER - SECTION A-A



HYDROBRAKE CHAMBER - SECTION B-B



HYDROBRAKE CHAMBER - PLAN VIEW

|      |              |     |          |
|------|--------------|-----|----------|
| 00   | FIRST ISSUE  | TP  | 23/12/22 |
| REV: | DESCRIPTION: | BY: | DATE:    |

STATUS: **TENDER**

CLIENT: **SBCU Ltd**

**SITE:** SRCL, KNOWSLEY, MERSEYSIDE

TITLE: DRAINAGE CONSTRUCTION  
DETAILS SHEET 3



|                       |                         |              |                 |
|-----------------------|-------------------------|--------------|-----------------|
| SCALE AT A1:<br>NTS   | DATE:<br>23-12-22       | DRAWN:<br>TP | CHECKED:<br>WW  |
| PROJECT NO:<br>21-305 | DRAWING NO:<br>90-125-3 |              | REVISION:<br>00 |