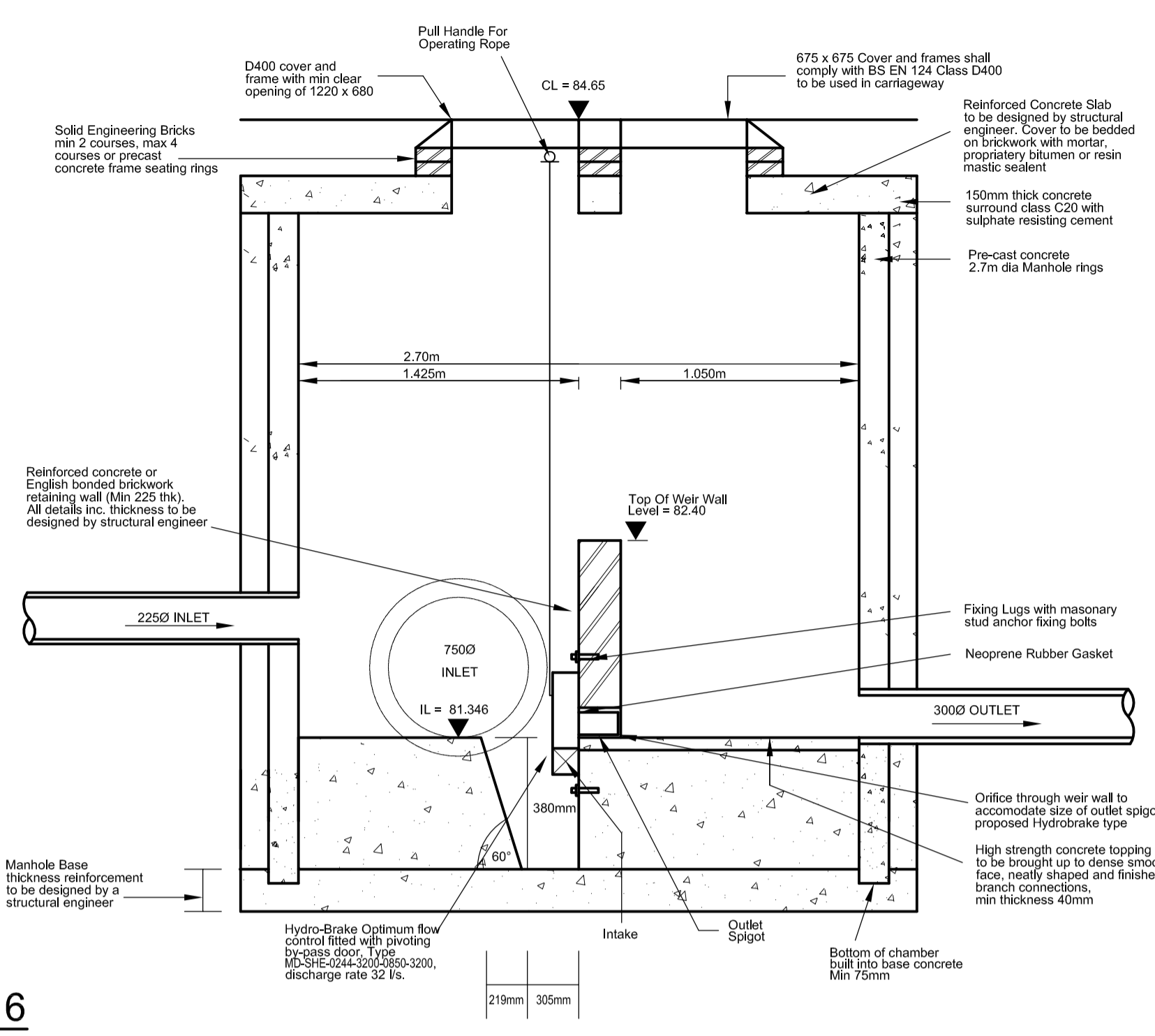


Hydro-Brake Chamber S16



- Hydro-Brake Notes**
- 1) Alternative types of hydrobrakes have different sump configuration & size, always consult the manufacturer.
  - 2) Warning signs are to be 40mm high red lettering on a white plastic base. The plastic base dimensions are to be approx 300mm x 6mm.
  - 3) The warning sign is to be mounted on a removable safety grid available from cover manufacturer.
  - 4) The sign in these manholes are to read "Caution - Hydrobrake located here".
  - 5) A sign must be fitted in the upstream MH to read "Caution - Hydrobrake downstream".
  - 6) A sign must be fitted in the downstream MH which reads "Caution - Hydrobrake upstream".
  - 7) Any difference between actual and drawn details is to be reported immediately.
  - 8) The base is to be resistant to attack by sewage.

The Contractor is to check and verify in conjunction with the Architects details all setting out points, building and site dimensions, levels and sewer invert levels at connection points and ensure that they are fully compliant with the contents and requirements of the site investigation report before work starts.

This drawing is not intended to show details of ground conditions or ground contaminants. Each area of ground relied upon to support any structure depicted (including drainage) must be investigated by the Contractor only areas of formation for solid structures which do not accord with the solicited conditions as described in the site investigation report are to be immediately notified to the Engineer, where applicable. Any suspect fluid ground or ground contaminants on or within the ground should be further investigated by a suitable expert. Any earthworks shown indicate typical slopes for guidance only and should be investigated further by a suitable geotechnical expert.

Where existing trees are shown to be retained they should be subject to a full Arboricultural Inspection for safety. All trees are to be planted so as to ensure they are a minimum of 5 metres from buildings and 3 metres from drainage and services, where applicable. A foundation is to be provided to accommodate the proposed tree planting, where applicable.

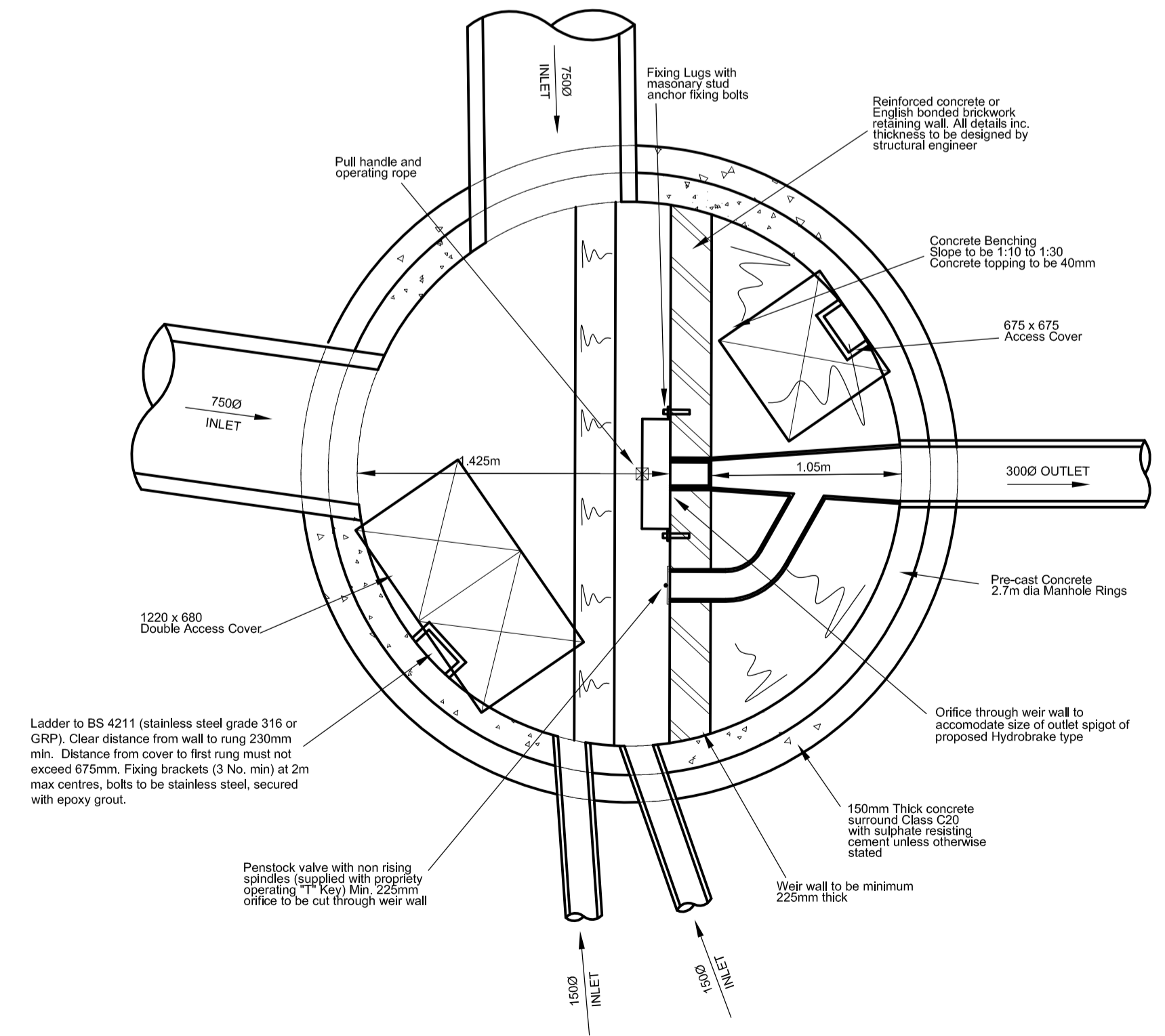
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GENERAL NOTES

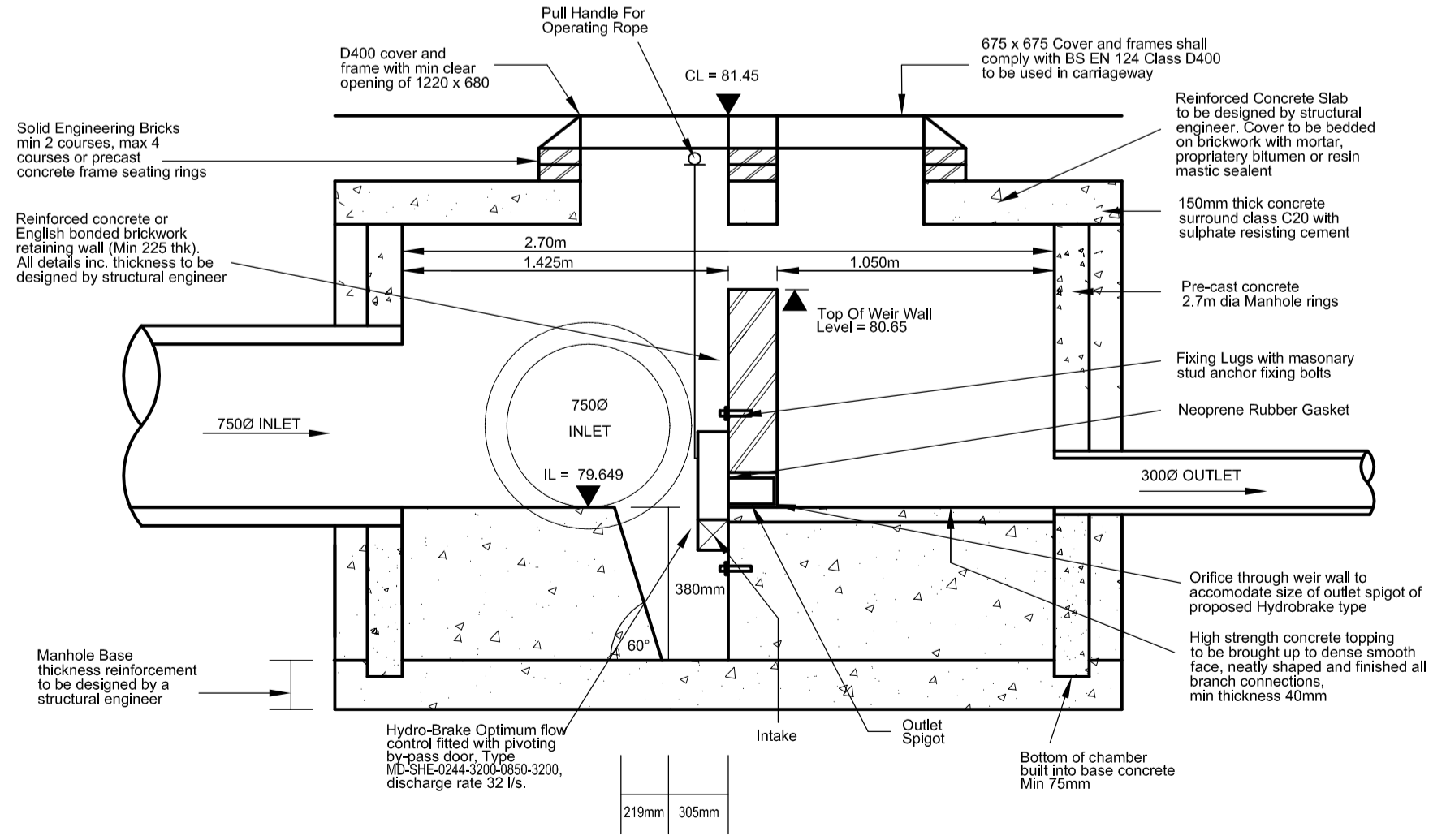
1. All sewerage to be offered for adoption under Section 104 of the Water Industry Act 1991 shall be constructed in accordance with Sewers for Adoption 6th Edition & Welsh Water requirements.
2. Pipes to have a Class S bed and surround where depths from cover to pipe soffit are greater than 1.2m.
3. Where the manhole cover to pipe soffit is less than 1.2m then concrete protection is to be provided.
4. Where the control chamber is to be constructed in existing highway, the Contractor must verify to the Engineer, the cover level and invert level, prior to commencement of works.

- ADOPTABLE ROADS AND SEWERS
1. Roads, footways and parking bays which form part of the highway to be adopted under Section 38 of the Highways Act 1990 shall comply with the requirements of the Adopting Authority.
  2. Sewers to be adopted under Section 104 of the Water Industries Act 1991 shall comply with the Water Authorities Association "Sewers for Adoption 6th Edition" with any amendments specified by the Adopting Water Authority.
  3. All pipes to be used in adoptable sewerage shall be either clayware to BS EN 295 or concrete to BS EN 1916 and BS 5911: Part 1 with Class 5 bedding unless otherwise stated. With approval of the Adopting Authority solid wall concrete external rib reinforced uPVC pipes complying with the relevant provisions of BS EN 13476 may be used.
  4. Where cover to a pipe is more than 1200mm under adoptable carriageway the trench shall be filled to formation of the carriageway with well compacted DTP Type 1 material.
  5. Where cover to a pipe is less than 1200mm under adoptable carriageway it shall be provided with concrete protection in accordance with the specification of the adopting authority and back filled to formation of the carriageway with well compacted DTP Type 1 material. Where concrete bed and surround is specified flexibility of joints is to be maintained by using compressible bitumen impregnated fibreboard at each pipe joint.
  6. All existing drainage invert levels, diameters and locations are to be checked by the Contractor prior to the commencement of any proposed drainage work. Any difference between actual and drawn details is to be reported to the Engineer immediately.
  7. Positions of existing services/statutory undertakers apparatus adjacent to or crossing proposed sewers is to be checked by the Contractor prior to starting work.

**PRELIMINARY  
DRAWING**  
SUBJECT TO APPROVAL



Hydro-Brake Chamber S32



P/2014/01663  
Received 23/12/14

Rev.	Description	Date	By
Client			
Project	<b>Pennycroft Lane Uttoxeter</b>		
Title	<b>Construction Details Control Chambers</b>		
<b>BANNERS GATE</b> CIVIL, STRUCTURAL & ARCHITECTURAL DESIGN SERVICES 10-11 Birmingham Street, Halesowen, West Midlands B63 3HN Tel: 0121 687 1500 Fax: 0121 687 1501 E-mail: mail@bannersgate.com			
Scale	NTS @ A1	Drawn	LH
Date	November 2014	Checked	SCM
File	14102/dwgs/civils	Drawing	14102 / 311