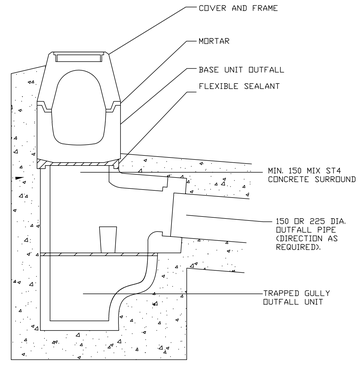
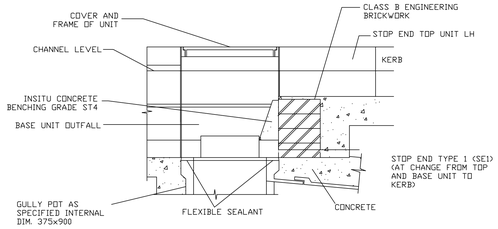


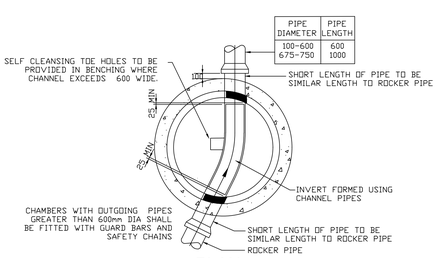
COMBINED KERB & DRAINAGE DETAIL CROSS SECTION



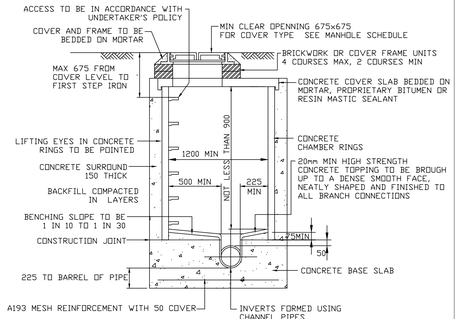
COMBINED KERB & DRAINAGE DETAIL OUTFALL DETAIL



COMBINED KERB & DRAINAGE DETAIL LONGITUDINAL SECTION



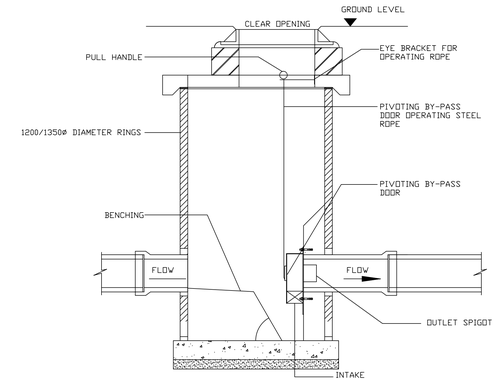
PLAN



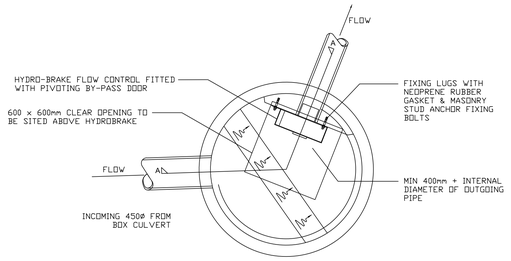
SECTION

PIPE DIAMETER (mm)	INTERNAL DIA OF MANHOLES TYPE A & B
LESS THAN 375	1200 (1050 WHEN SOFFIT = 1.35-1.5m)
375 - 450	1350
500 - 700	1500
750 - 900	1800
> 900	CONSULT UNDERTAKER

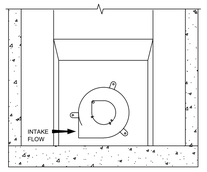
TYPICAL MANHOLE DETAIL TYPE 2 DEPTH TO SOFFIT UP TO 3.0 METRES



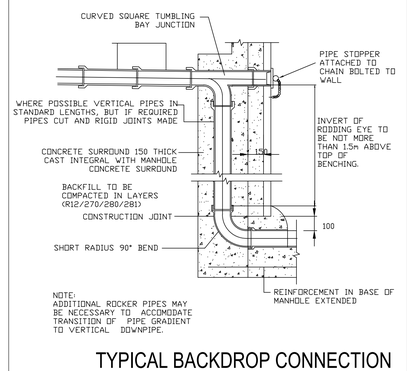
HYDROBRAKE MANHOLE SECTION A-A



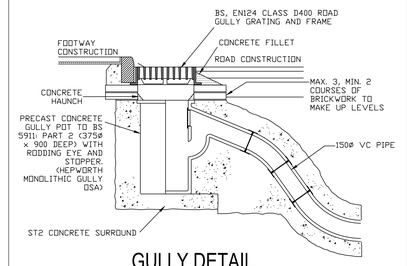
HYDROBRAKE MANHOLE PLAN



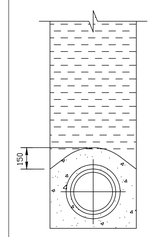
HYDROBRAKE ELEVATION



TYPICAL BACKDROP CONNECTION TO MANHOLE



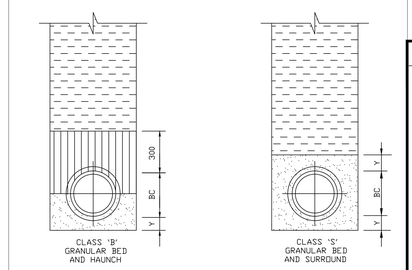
GULLY DETAIL



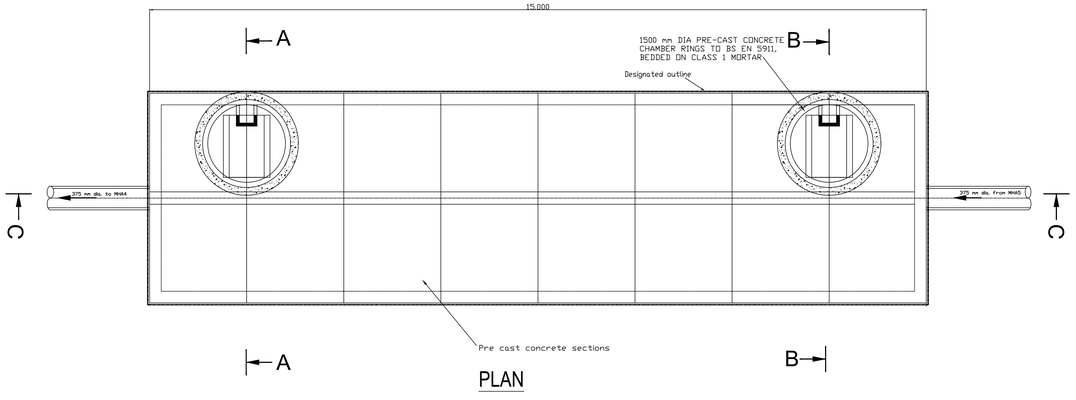
LEGEND

DN = NOMINAL INTERNAL DIAMETER OF PIPE.
BC = OUTSIDE DIAMETER OF PIPE.
Y = BC/6 OR 100mm UNDER BARRELS AND 50mm MIN UNDER SOCKETS WHICHEVER IS GREATER (400 MAX), OR IN ROCK ETC. BC/4 AND 150mm MIN UNDER SOCKETS (400 MAX).

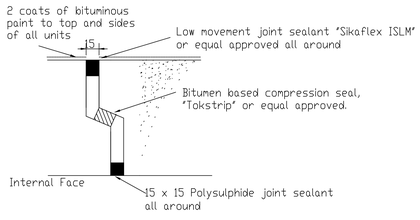
- SUITABLE BACKFILL MATERIAL.
- CLASS B MATERIAL TO S.H.W CL.503.3 (iv)
- GRANULAR BEDDING MATERIAL TO COMPLY WITH S.H.W CL.503.3 (i) E.G SAND
- GRANULAR MATERIAL TO COMPLY WITH S.H.W CL.503.3 (i)
- C20/25 CONCRETE TO COMPLY WITH BS EN 206-1:2000



TYPICAL PIPE BEDDING DETAILS

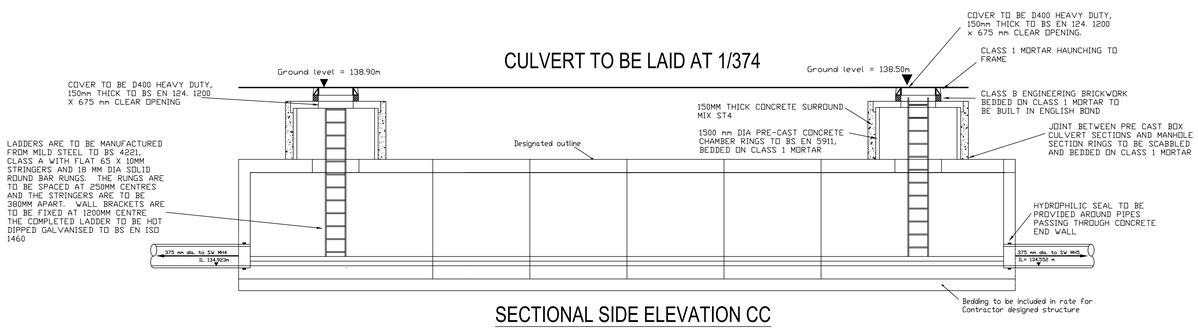


PLAN

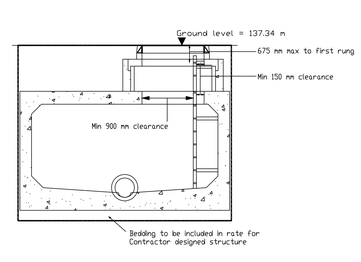


JOINT DETAIL (NTS)

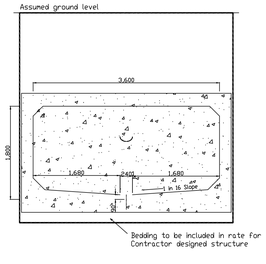
CULVERT TO BE LAID AT 1/374



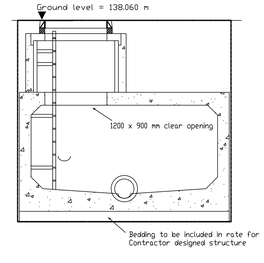
SECTIONAL SIDE ELEVATION CC



SECTIONAL ELEVATION AA



TYPICAL CROSS SECTION



SECTIONAL ELEVATION BB

NOTES

Flow Control Chambers

1. Manhole locations are shown on drawing numbers HD/7122127/C/500.4

2. All ironwork to be hot-dipped galvanised prior to final fixing.

3. Pass-on flow for flow control manhole chamber to be limited to a flow of 5 l/s.

4. Details based on Yorkshire Water standard detail drawing FCMH/03 for flow control manholes >2.1m deep <900mm diameter storage pipes.

5. Flow control devices to be 105 SXH Hydro-Brake Flow Control manufactured by Hydro International of Shearwater House, Clevedon Hall Estate, Victoria Road, Clevedon, BS21 7RD, tel 01275 874979. Hydro International's reference for this application is 03-2344.

Box Culvert

1. Pre cast concrete box culverts are to be installed to the recommendations detailed in the Box Culvert Association's 'A guide to site practice.'

2. Precast concrete units are to be provided with threaded inserts and will be delivered to site on the end as cast, the units will require turning upon delivery.

3. Class 6N granular material is to be used as fill material to the sides and above the box culvert.

4. 2 coats bituminous paint to be applied to sides and top surfaces of all box culvert units.

5. All concrete to be designed in accordance with the requirements of BRE Special Digest 1, Concrete in aggressive ground, read in conjunction with the information given in the site investigation report and the Supplementary Interpretive Report Sulphate and pH of the ground.

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Rev.	By	Amendments	Date

BARNSLEY
Metropolitan Borough Council

Project
A628 DODWORTH RD/BROADWAY JUNCTION IMPROVEMENT

Drawing title
FLOW CONTROL & BOX CULVERT, DRAINAGE STANDARD DETAILS

Scale	Drawn	Checked	Date
N.T.S	ES		NOV 2018

Drawing No.	Revision	File
HD/7122127/C/500.4		

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