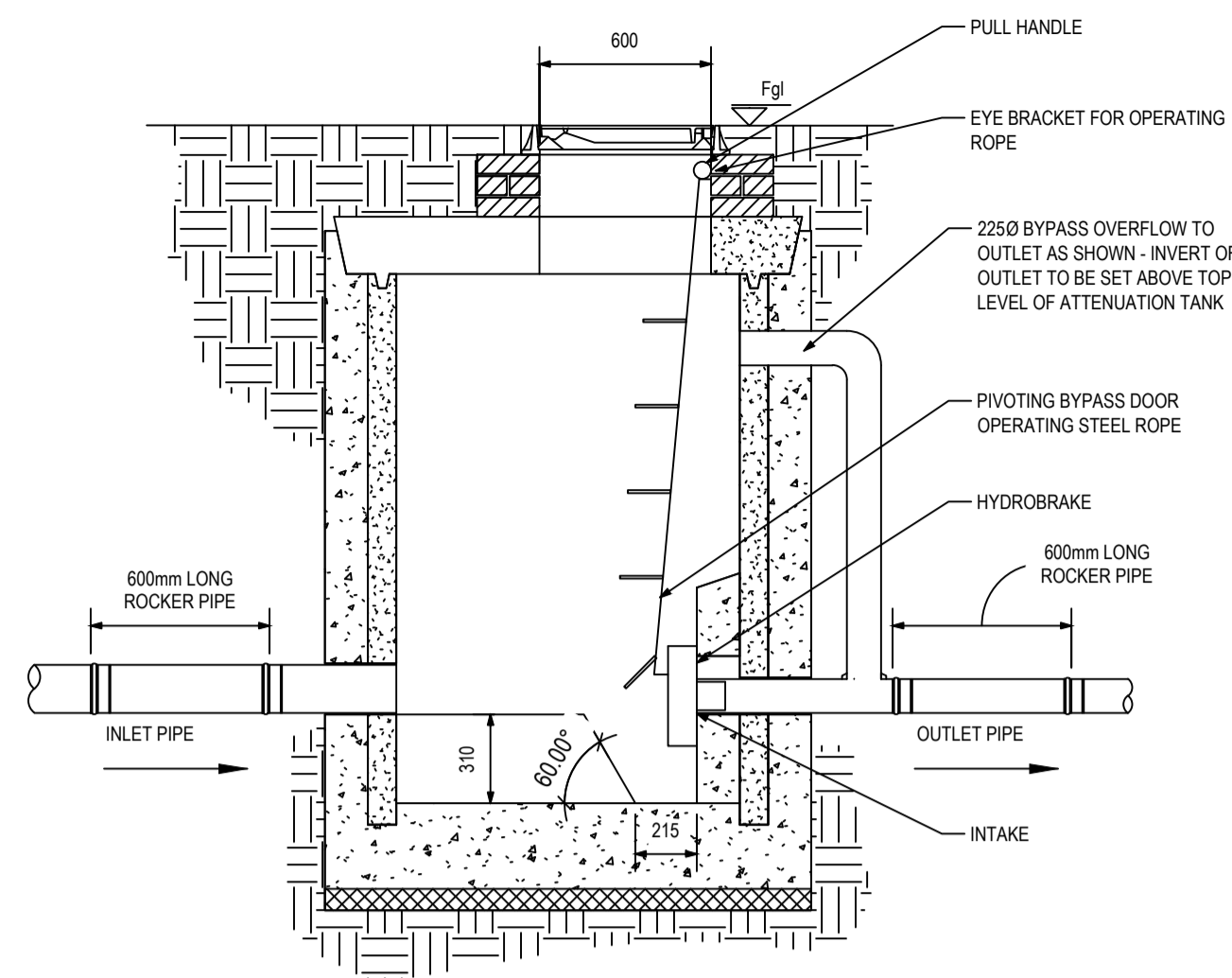
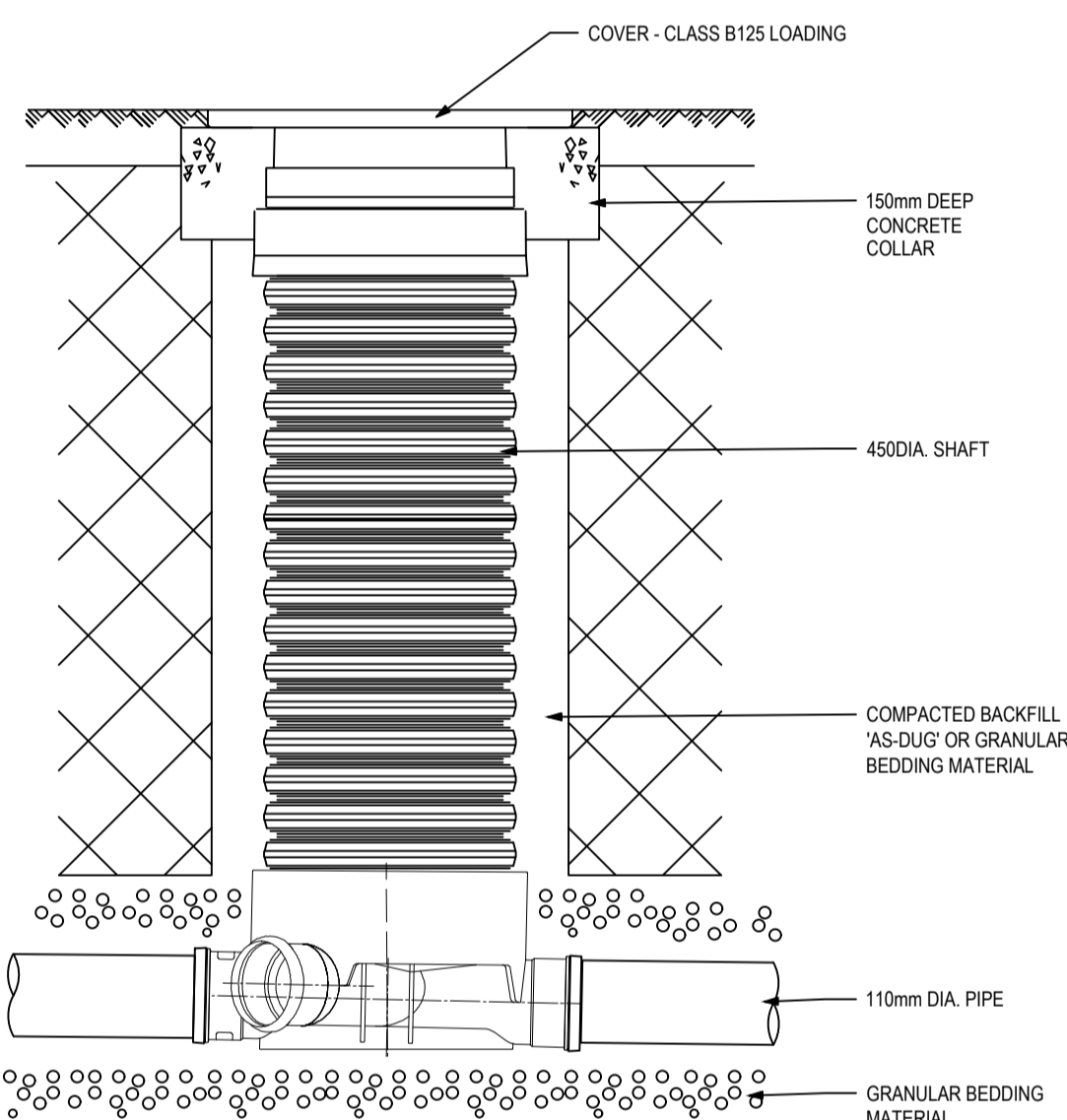


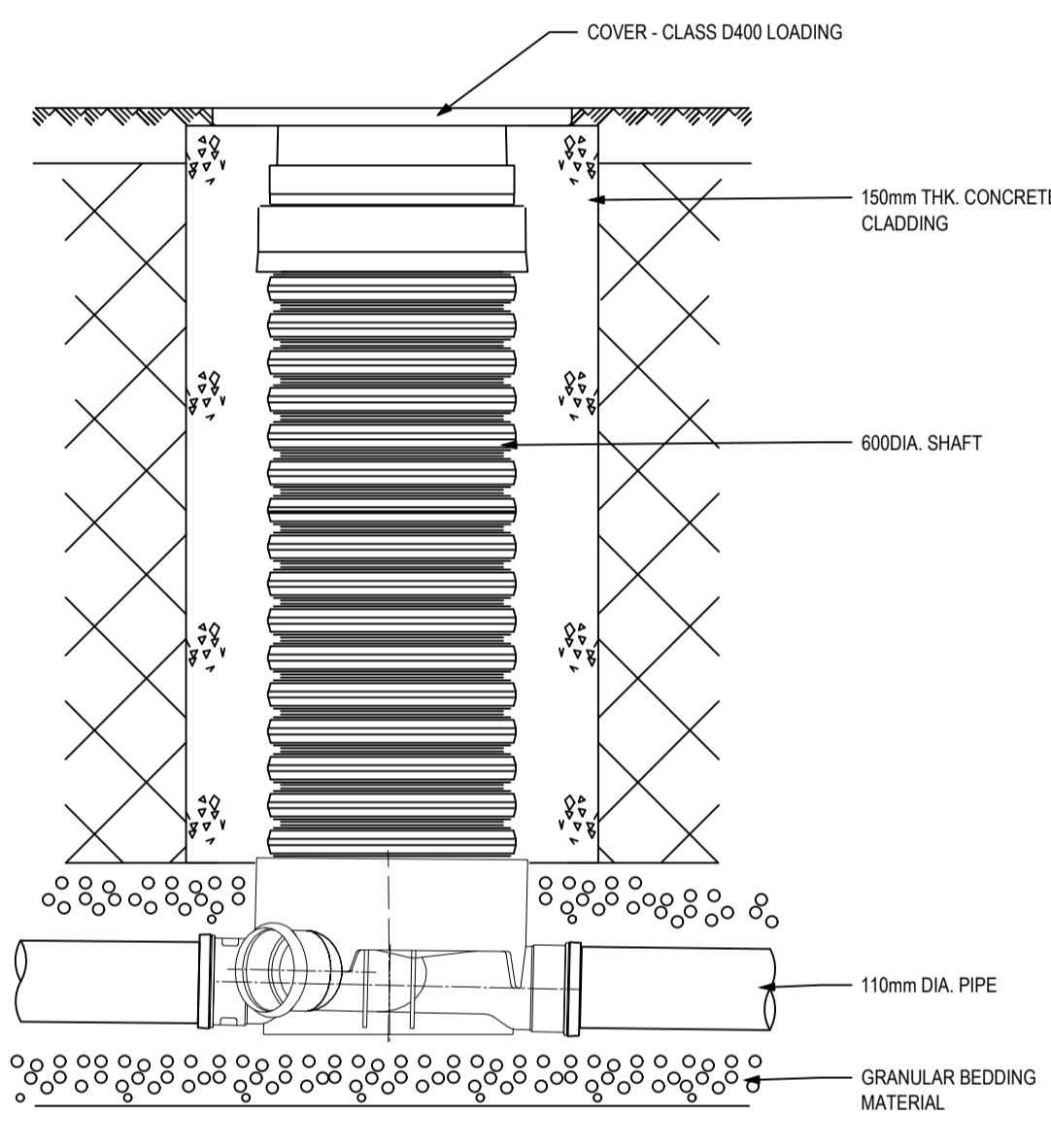
**TYP. SILT TRAP MANHOLE**  
SCALE 1 : 25



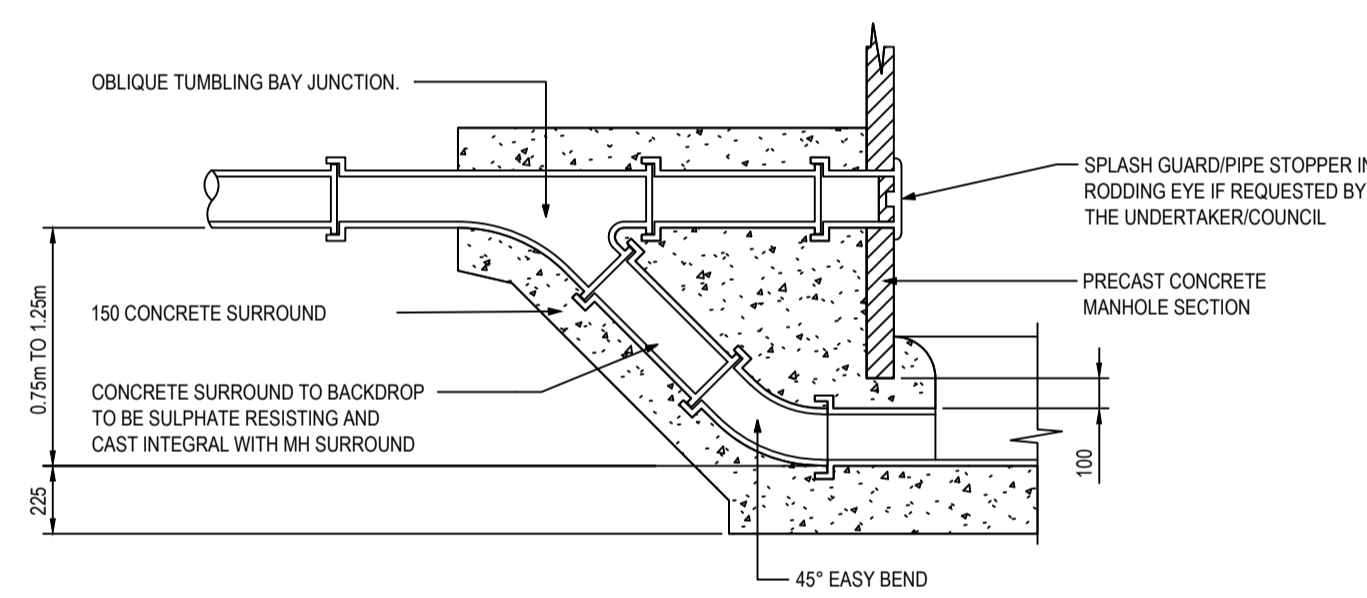
**TYP. CIRCULAR HYDROBRAKE ARRANGEMENT**  
SCALE 1 : 25



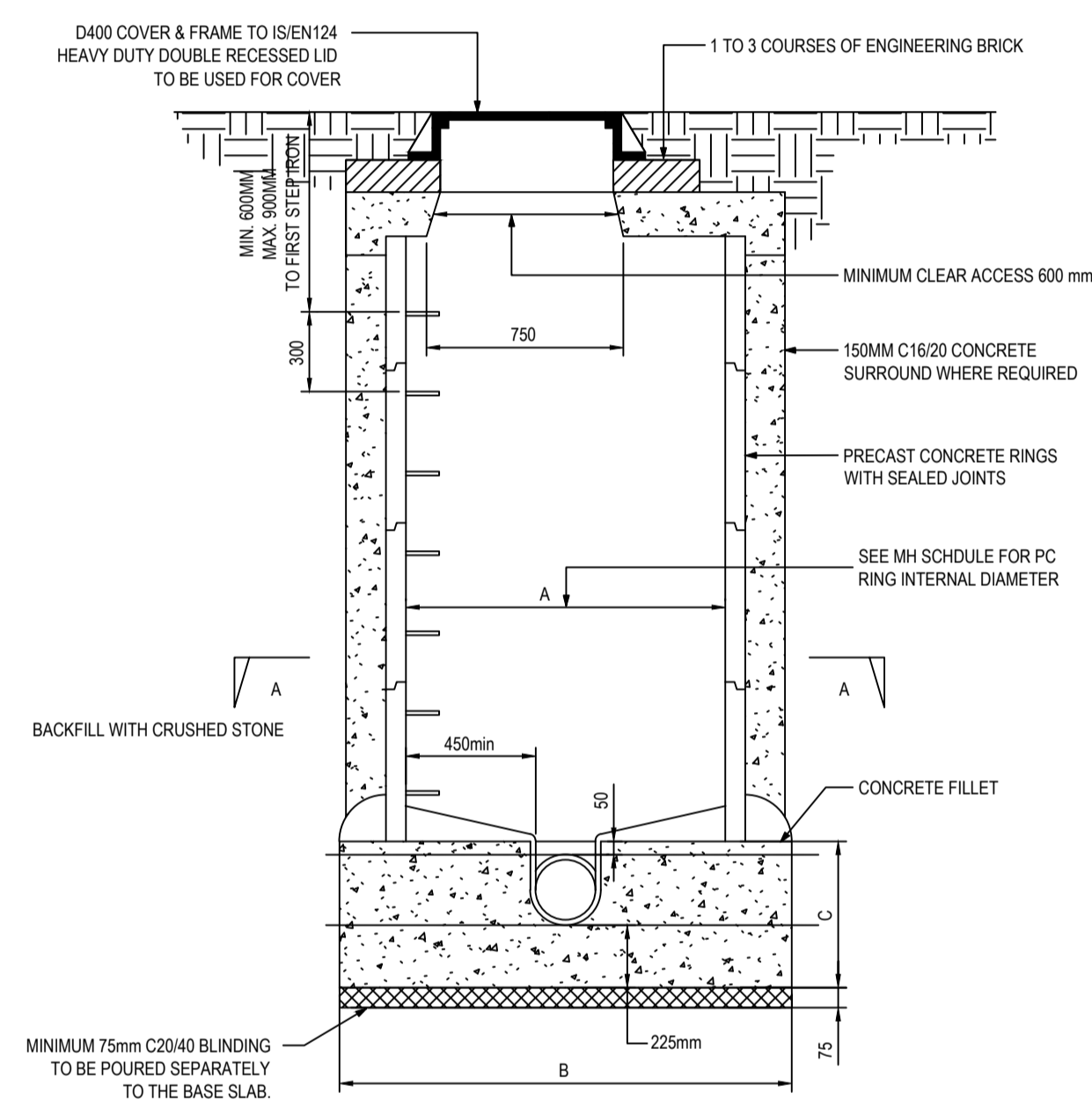
**TYPICAL INSPECTION CHAMBER FOR NON TRAFFIC LOADED AREAS**  
SCALE 1 : 1



**TYPICAL INSPECTION CHAMBER FOR TRAFFIC LOADED AREAS**  
SCALE 1 : 1



**BACKDROP CONNECTION TO MANHOLE 0.75-1.25**  
SCALE 1 : 25



**SECTIONAL ELEVATION B-B WITH CONCRETE SURROUND**  
SCALE 1 : 50

SEWER DIA (D MM)	CHAMBER DIA (A MM)	INSITU BASE EXTERNAL DIA (B MM)	INSITU BASE NOMINAL DEPTH (C MM)
225	1200	1700	500

**Notes :**

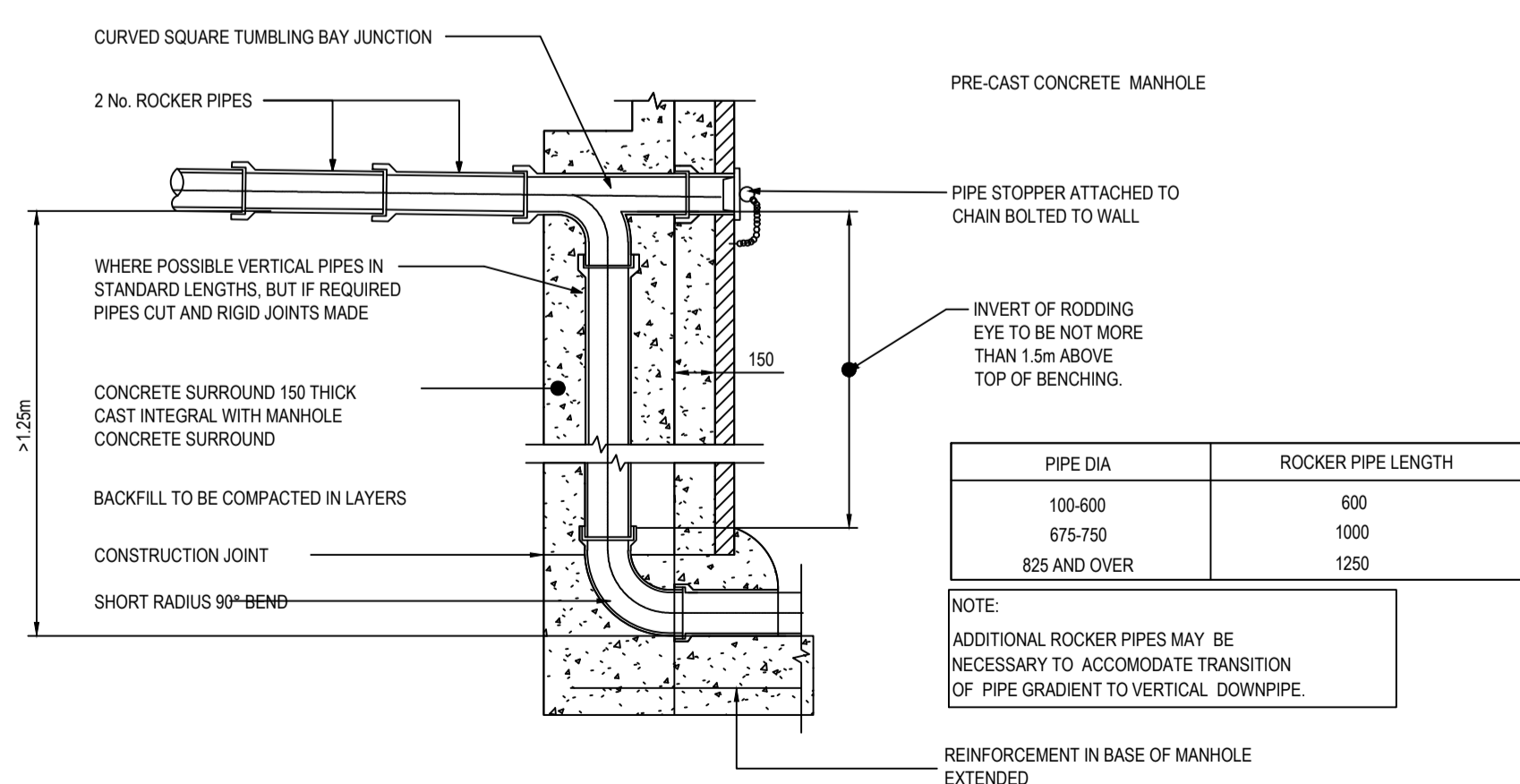
- All drawings are to be read in conjunction with all relevant Specifications, Bills of Materials, Architectural, Services and Engineering drawings.
- Any discrepancies between these documents shall be brought to the attention of the Engineer.
- All dimensions are in millimetres, unless noted otherwise.
- All levels are in metres related to Ordnance Datum.
- Drawings are not to be scaled.
- All layouts have been provided by the Client.
- All levels and dimensions to be confirmed by Contractor on site.
- Temporary propping to existing structure to Contractors details.
- Proposed construction sequence is to be adhered to by Groundworks Contractor. Any alterations to be discussed with the Engineer prior to works commencing.

**DRAINAGE NOTES :**

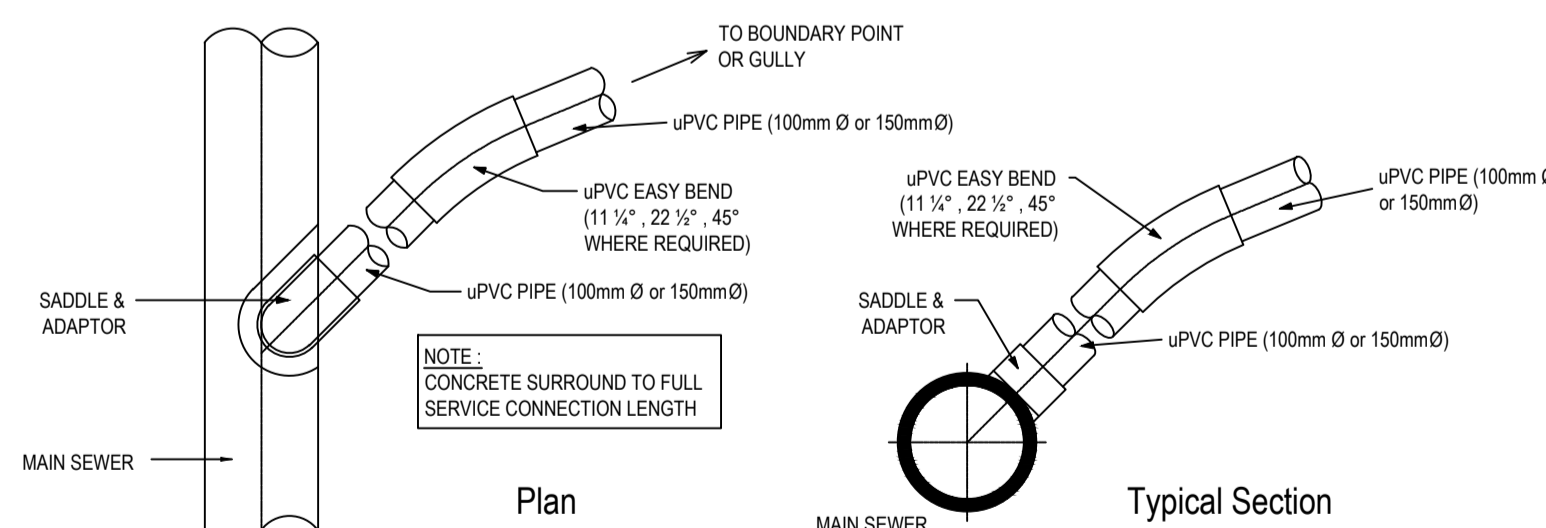
- All NEW DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH BS-EN 752:2008.
- INVERT LEVELS OF EXISTING DRAINAGE (WHERE APPLICABLE) TO BE CONFIRMED BEFORE WORKS COMMENCE.
- ALLOW FOR CARRYING OUT CCTV SURVEY AFTER WORKS ARE COMPLETE TO VERIFY DRAINAGE SYSTEM. CARRY OUT AIR TEST ON ALL RUNS BETWEEN ACCESS CHAMBERS/MANHOLES.
- ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- REFER TO DRAWING 2002-2002 FOR TYPICAL MANHOLE DETAILS.
- ALL FOUL WATER TO BE 110mm DIAMETER AT 1.80 FALLS U.N.O.
- ALL SURFACE WATER DRAINAGE TO BE 150mm DIAMETER STATED AT 1.80 FALLS U.N.O.
- MINIMUM COVER TO TOP OF ALL PIPEWORK IS 600mm.
- FOR INTERNAL DRAINAGE LAYOUTS AND INFORMATION REFER TO MEP CONSULTANTS DRAWINGS.
- INTERNAL BELOW GROUND DRAINAGE TO BE uPVC PIPE AND FITTINGS.
- ALL MANHOLES TO BE 600mm DIAMETER (INTERNAL) PRECAST RINGS UNO.
- ALL EXTERNAL DRAINAGE PIPING TO BE VITRIFIED CLAY TO ADAPTABLE STANDARDS.

**MANHOLE NOTES:**

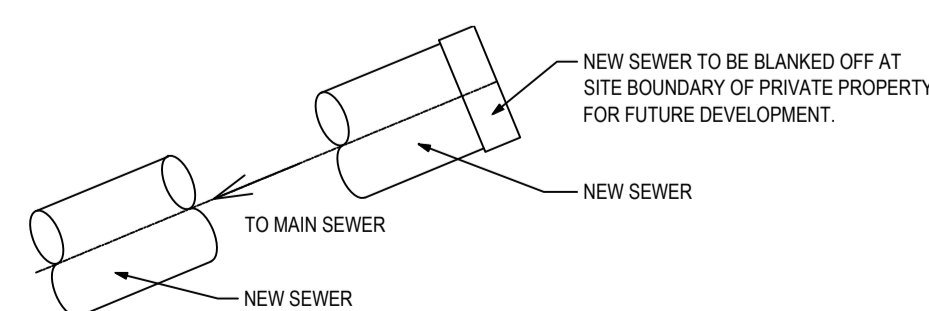
- ROCKER PIPES NOMINAL LENGTH 600 mm. TO BE USED AT ENTRY POINT TO MANHOLES.
- ALL MANHOLES AND ACCESS POINTS ON SEWERS TO BE IN ACCORDANCE WITH BS EN 752:2008.
- ALL BENCHING TO BE CONSTRUCTED IN ACCORDANCE WITH BS EN 752:2008.
- ALL MANHOLE COVERS AND FRAMES TO COMPLY WITH EN124:1994 AND HAVE THIRD PARTY CERTIFICATIONS AVAILABLE ON REQUEST.
- ALL MANHOLE COVERS AND FRAMES TO BE CLASS D400 ON ALL TRAFFIC AREAS UNLESS OTHERWISE STATED.
- ALL MANHOLES CHAMBERS TO HAVE RETRACTABLE SAFETY HANDHOLES EXTENDING AT LEAST 1.1 m MIN ABOVE COVER LEVEL.
- ALL MANHOLES COVERS AND FRAMES SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- WALL THICKNESS VARIES WITH MANHOLE DEPTH. CONFIRM WITH ENGINEER FOR WALL THICKNESS.
- CHAMBER WALLS, COVER SLAB, LANDING SLAB FOR P.C.C. CHAMBERS WHERE REQUESTED SHALL BE CONSTRUCTED IN PRECAST CONCRETE TO BS 5991-3:2002.



**BACKDROP CONNECTION TO MANHOLE GREATER THAN 1.25**  
SCALE 1 : 25



**SERVICE CONNECTION DETAIL AT FOUL/STORM SEWER**  
SCALE 1 : 20



**FUTURE CONNECTION DETAIL**  
SCALE 1 : 10

**MINIMUM DIMENSIONS FOR MANHOLES**

TYPE	SIZE OF LARGEST PIPE	MIN INTERNAL DIMENSIONS RECTANGULAR LENGTH AND WIDTH	CIRCULAR DIA.	MIN. CLEAR OPENING SIZE RECTANGULAR LENGTH AND WIDTH	CIRCULAR DIA.	
MANHOLE	< 1.5m DEEP TO SOFFIT	≤ 150	750 x 675	1000	750 x 675	N/A
		225	1200 x 675	1200	1200 x 675	
		300	1200 x 750	1200		
		> 300	1800 x (DN+450)	THE LARGER 1800 OR (DN+450)		
> 1.5m DEEP TO SOFFIT	≤ 225	1200 x 1000	1200	600 x 600	600	
	300	1200 x 1075	1200			
	375 - 450	1350 x 1225	1200			
	> 450	1800 x (DN+775)	THE LARGER OF 1800 OR (DN+775)			
MANHOLE SHAFT	< 3m DEEP TO SOFFIT OF PIPE	STEPS	1050 x 800	1050	600 x 600	600
		LADDER	1200 x 800	1200		
		WINCH	900 x 800	900	600 x 600	600

REF - TABLE 12 APPROVED DOCUMENT H TO BUILDING REGULATIONS 2010 (FOR INSPECTION CHAMBER SIZES SEE TABLE 11 IN SAME DOCUMENT)

Project	1-3 Ferdinand Place, Chalk Farm Camden, London NW1 8EE	TH	SC	SC
Title	Typical Manhole Detail	by	ch/d	app
Client	Firmitas Design and Build Ltd			

Scales (A1)	AS SHOWN	Drawn	TH	06.09.21	Dir. No.	21024-2401	Rev.	A
Drawn	TH	06.09.21	CH/d(D.O.)	-	07.09.21	Approved	SC	10.09.21