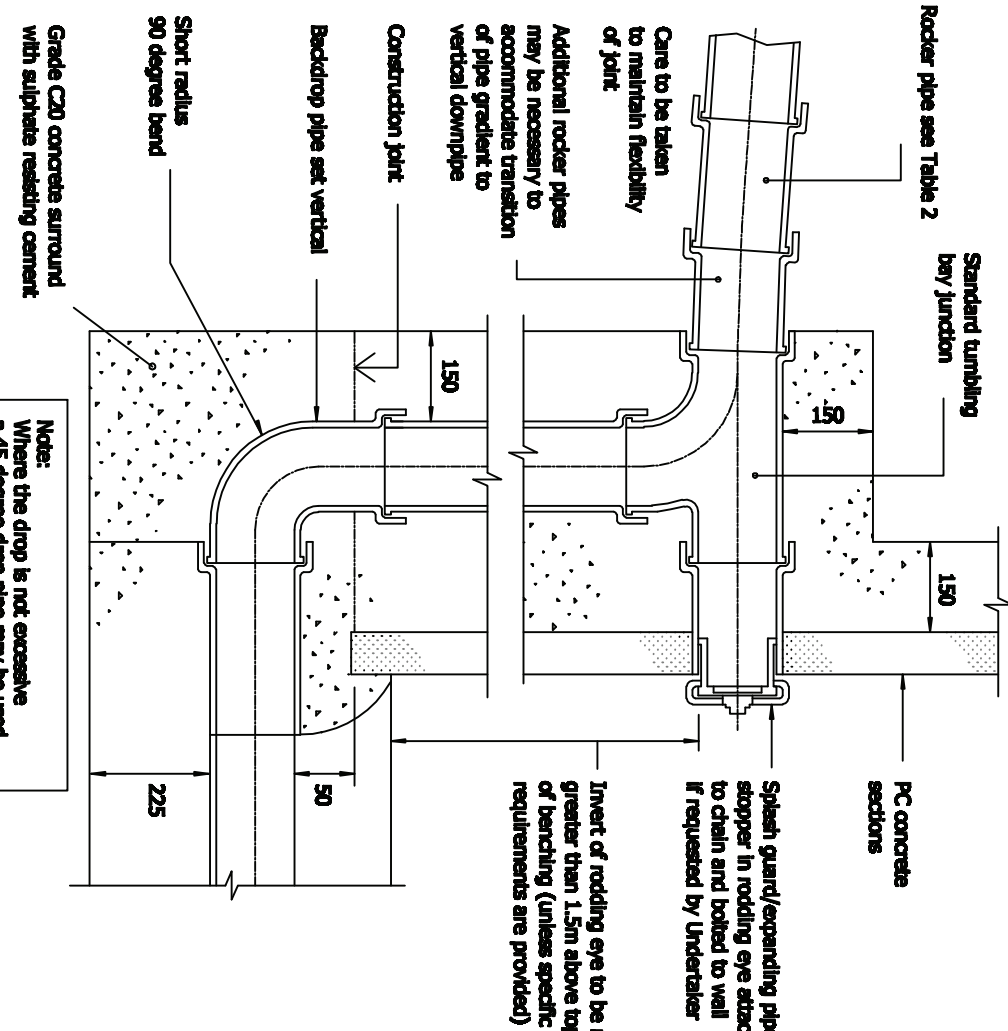


- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2007.
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:- LEES ROXBURGH DRAWING SERIES 507A, ARCHITECTS and DESIGNERS DRAWINGS AND DETAILS.
2. THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING:-
3. ALL SEWERAGE WORKS TO BE IN ACCORDANCE WITH THE "SEWERS FOR ADOPTION" 6th EDITION
4. THE ROXBURGH APPOINTMENT IS RESTRICTED TO THE DESIGN OF THE PERMANENT CIVIL/STRUCTURAL WORKS ONLY AND HAVE NO SITE ROLE. THE CONTRACTOR IS THIS HEREBY ADVISED THAT THE CONTRACTOR SHALL BE SPECIFICALLY RESPONSIBLE FOR ALL TEMPORARY WORKS AND FOR THE STABILITY OF THE AFFECTED LAND AND STRUCTURES.
5. THE LOCAL AUTHORITY AND SERVICE COMPANIES ARE TO BE NOTIFIED PRIOR TO COMMENCEMENT OF WORK ON SITE.
6. PRIOR TO CONSTRUCTION THE ACTUAL POSITIONS AND DEPTHS OF ALL EXISTING SERVICES SHALL BE DETERMINED AND SHOULD BE ESTABLISHED BY MEANS OF HAND DIG IN CLOSE PROXIMITY TO THE WORK AREA. THE CONTRACTOR SHALL IMMEDIATELY ADVISE LEES ROXBURGH OF ANY SERVICES EXPOSED WHICH MAY AFFECT THE DESIGN.
7. THE LOCAL AUTHORITY AND SERVICE COMPANIES ARE TO BE NOTIFIED PRIOR TO COMMENCEMENT OF WORK ON SITE.
8. PRIOR TO CONSTRUCTION THE ACTUAL POSITIONS AND DEPTHS OF ALL EXISTING SERVICES SHALL BE DETERMINED AND SHOULD BE ESTABLISHED BY MEANS OF HAND DIG IN CLOSE PROXIMITY TO THE WORK AREA. THE CONTRACTOR SHALL IMMEDIATELY ADVISE LEES ROXBURGH OF ANY SERVICES EXPOSED WHICH MAY AFFECT THE DESIGN.
9. THE LOCAL AUTHORITY AND SERVICE COMPANIES ARE TO BE NOTIFIED PRIOR TO COMMENCEMENT OF WORK ON SITE.
10. PRIOR TO CONSTRUCTION THE ACTUAL POSITIONS AND DEPTHS OF ALL EXISTING SERVICES SHALL BE DETERMINED AND SHOULD BE ESTABLISHED BY MEANS OF HAND DIG IN CLOSE PROXIMITY TO THE WORK AREA. THE CONTRACTOR SHALL IMMEDIATELY ADVISE LEES ROXBURGH OF ANY SERVICES EXPOSED WHICH MAY AFFECT THE DESIGN.



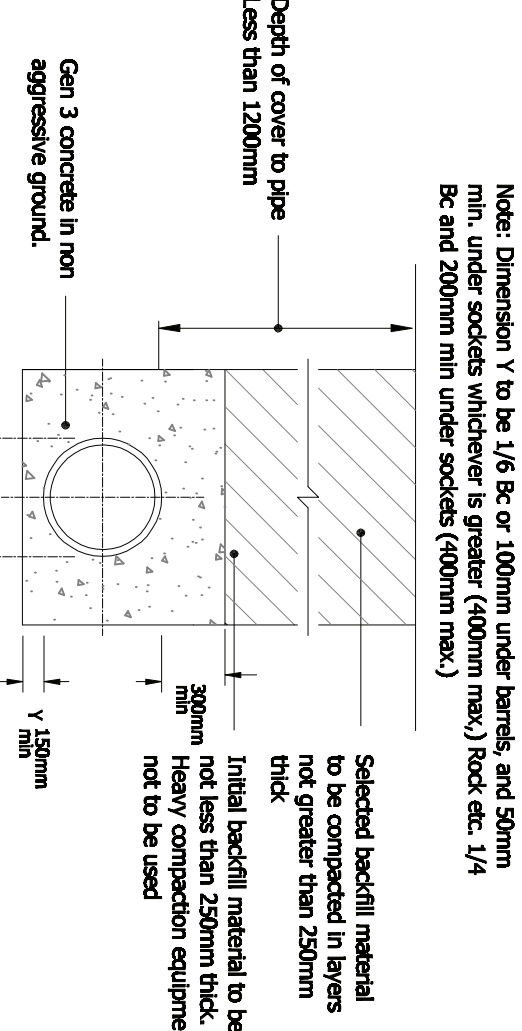
TYPICAL VERTICAL BACKDROP DETAIL

Notes:-

All work and materials to be in accordance with the water Authorities Association "Sewers for Adoption - A design and construction guide for developers" 6th Edition and to the satisfaction of the supervising Local Authority.

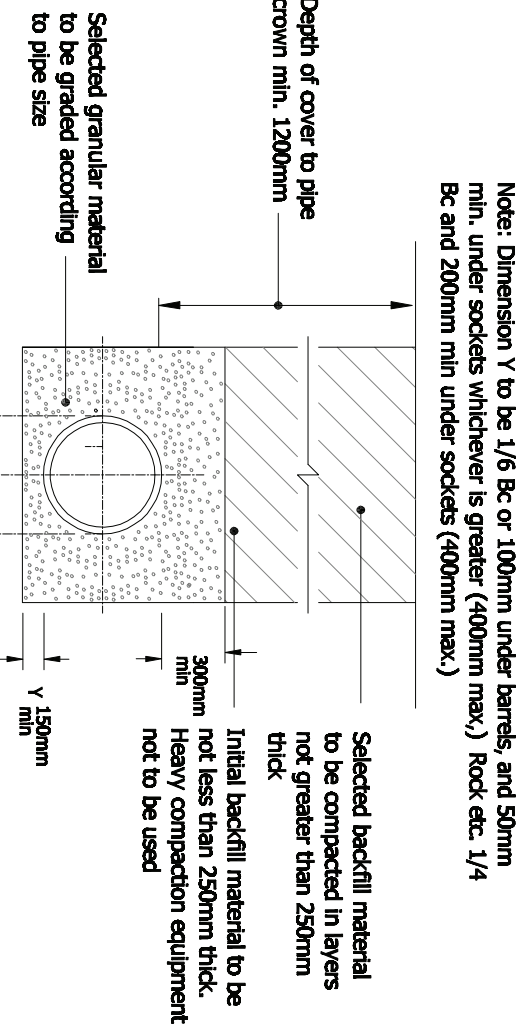
All manhole rings/concrete pipes are to be sulphate resisting

A minimum of 0.5m X 0.5m square area of benching must be provided beneath the manhole cover opening.

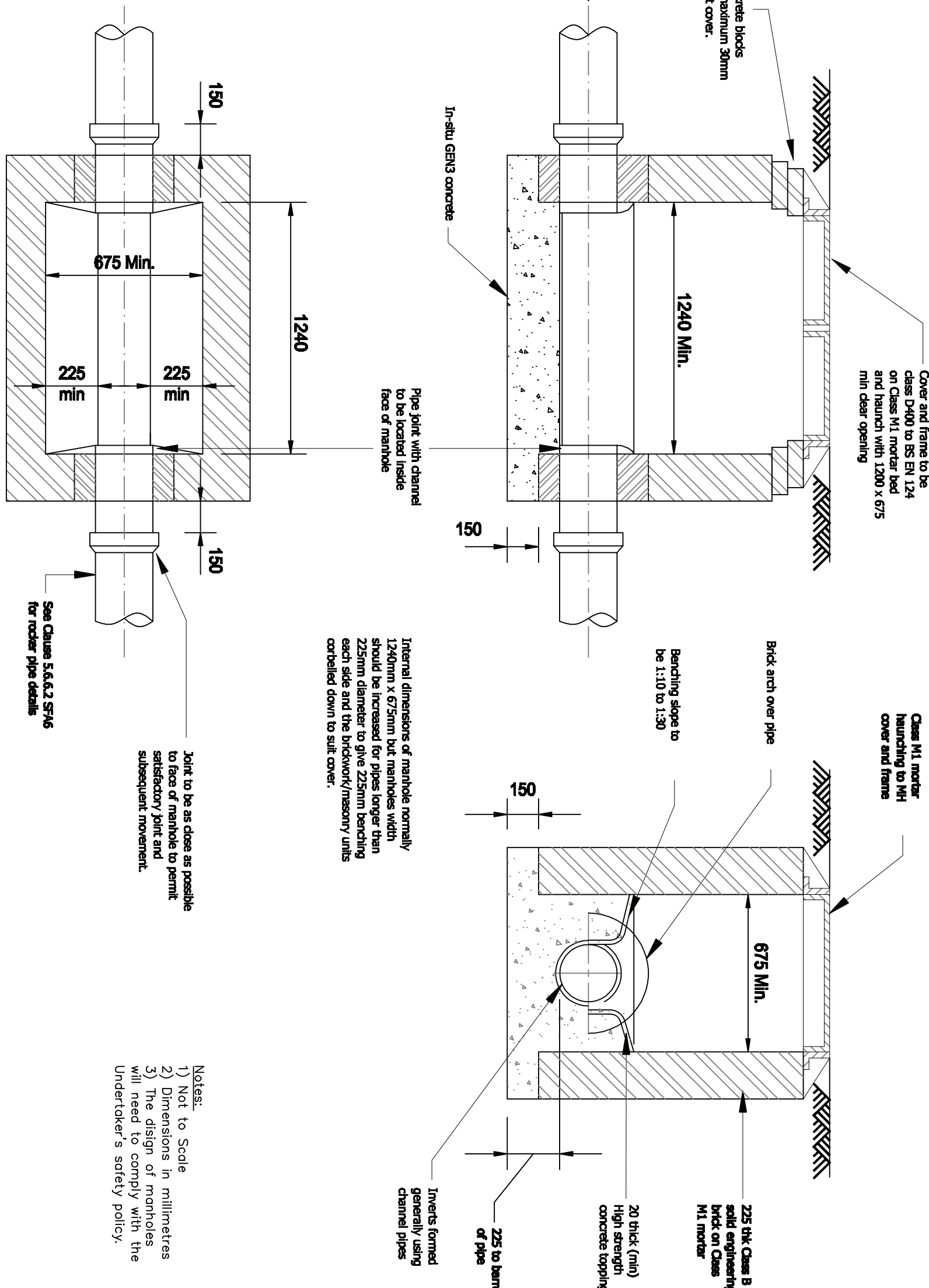


CONCRETE BED AND SURROUND

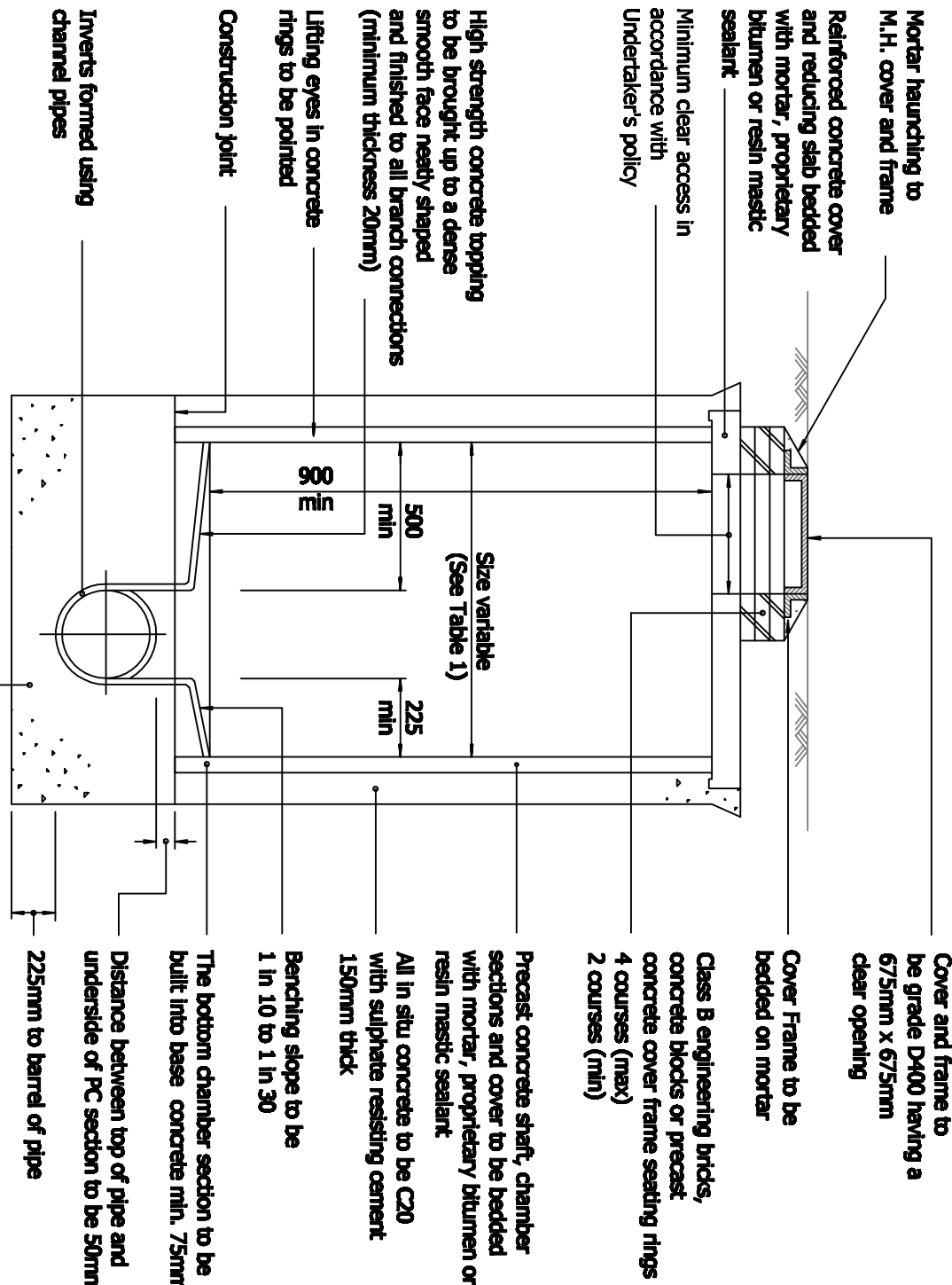
CLASS 5 GRANULAR BED AND SURROUND



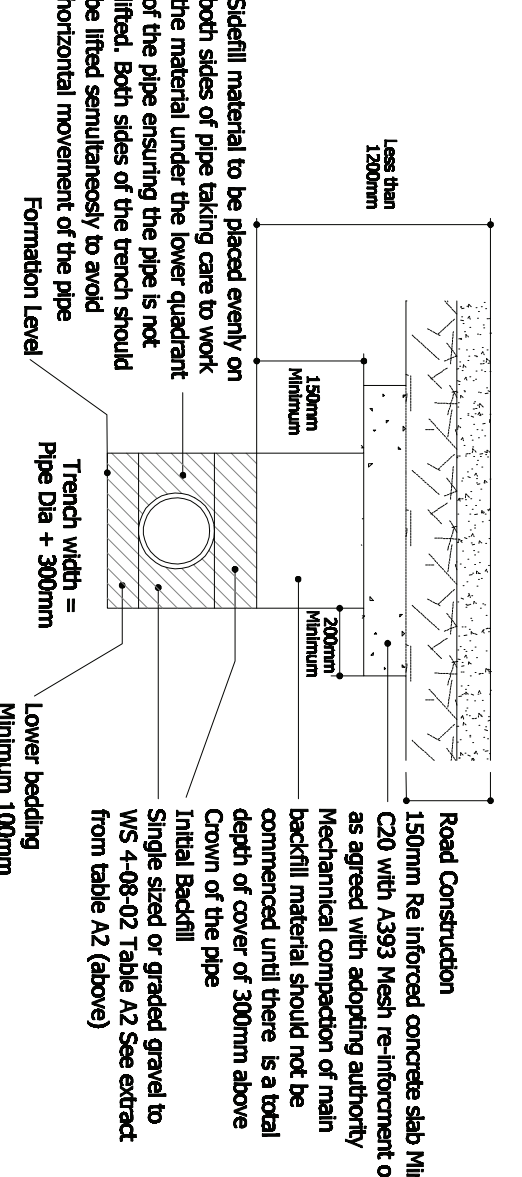
Note: Dimension Y to be 1/6 Bc or 100mm under barrels, and 50mm min. under sockets whichever is greater (400mm max.) Bc etc. 1/4 Bc and 200mm min under sockets (400mm max.)



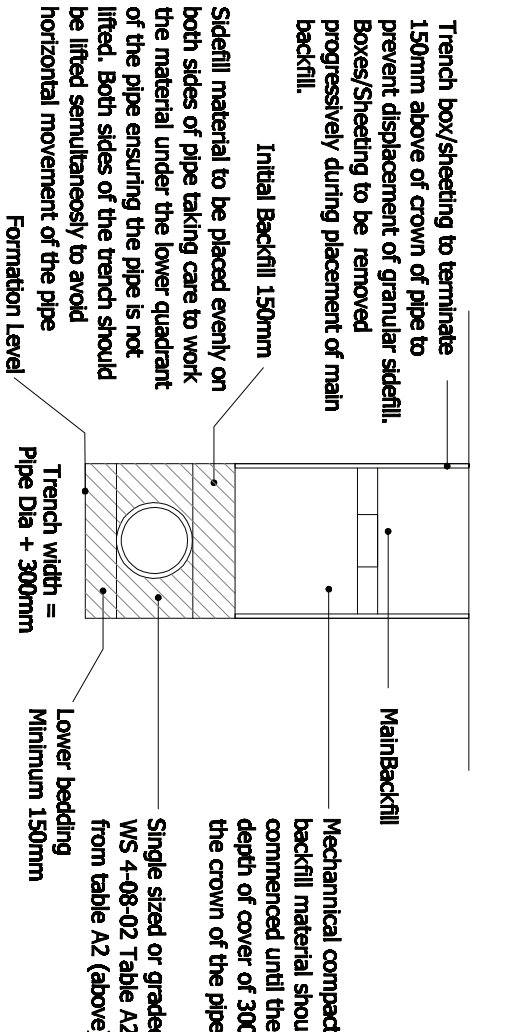
TYPICAL MANHOLE DETAIL - SEWERS FOR ADOPTION - TYPE C
Depth from cover level to soffit of pipe 1.0m to 1.5m



TYPICAL MANHOLE DETAIL - SEWERS FOR ADOPTION - TYPE B
Max. depth from cover level to soffit of pipe 3m
Steps and access arrangements or otherwise to be fitted as required by Undertaker's policy.



PIPE PROTECTION AT DEPTHS OF COVER LESS THAN 1200MM WITH CONCRETE SLAB



DESIGN AND INSTALLATION GUIDE FOR STRUCTURED WALL SEWER PIPE TO WIS-4-35-01

Diameter of largest pipe in manhole (mm)	Chamber section diameter
Less than 375mm	1200
375 - 450	1500
500 - 700	1500
750 - 900	1800
more than 900	Consult Undertaker

TABLE 1

Pipe Dia.	Backfill pipe effective length
150 - 600	0.6
675 - 750	1.0
750 +	1.25

TABLE 2

Pipe nominal bore (mm) See note C	Nominal Maximum Particle Size (mm)	Materials specified in British Standards see notes
100	10	10mm nominal single sized graded
100-150	15	10 or 14mm nominal single size or 14mm to 5mm graded
150-300	20	10, 14 or 20mm nominal single size or 14mm to 5mm graded or 20mm nominal single size or 14mm to 5mm graded
300-550	20	14, 20 or 20mm nominal single size or 14mm to 5mm graded or 20mm nominal single size or 14mm to 5mm graded
Over 550	40	14, 20 or 20mm nominal single size or 14mm to 5mm graded or 20mm nominal single size or 14mm to 5mm graded

EXTRACT FROM TABLE A2 WIS 4-08-02 - PROCESSED GRANULAR BEDDING AND SIDEFILL MATERIALS FOR FLEXIBLE PIPES