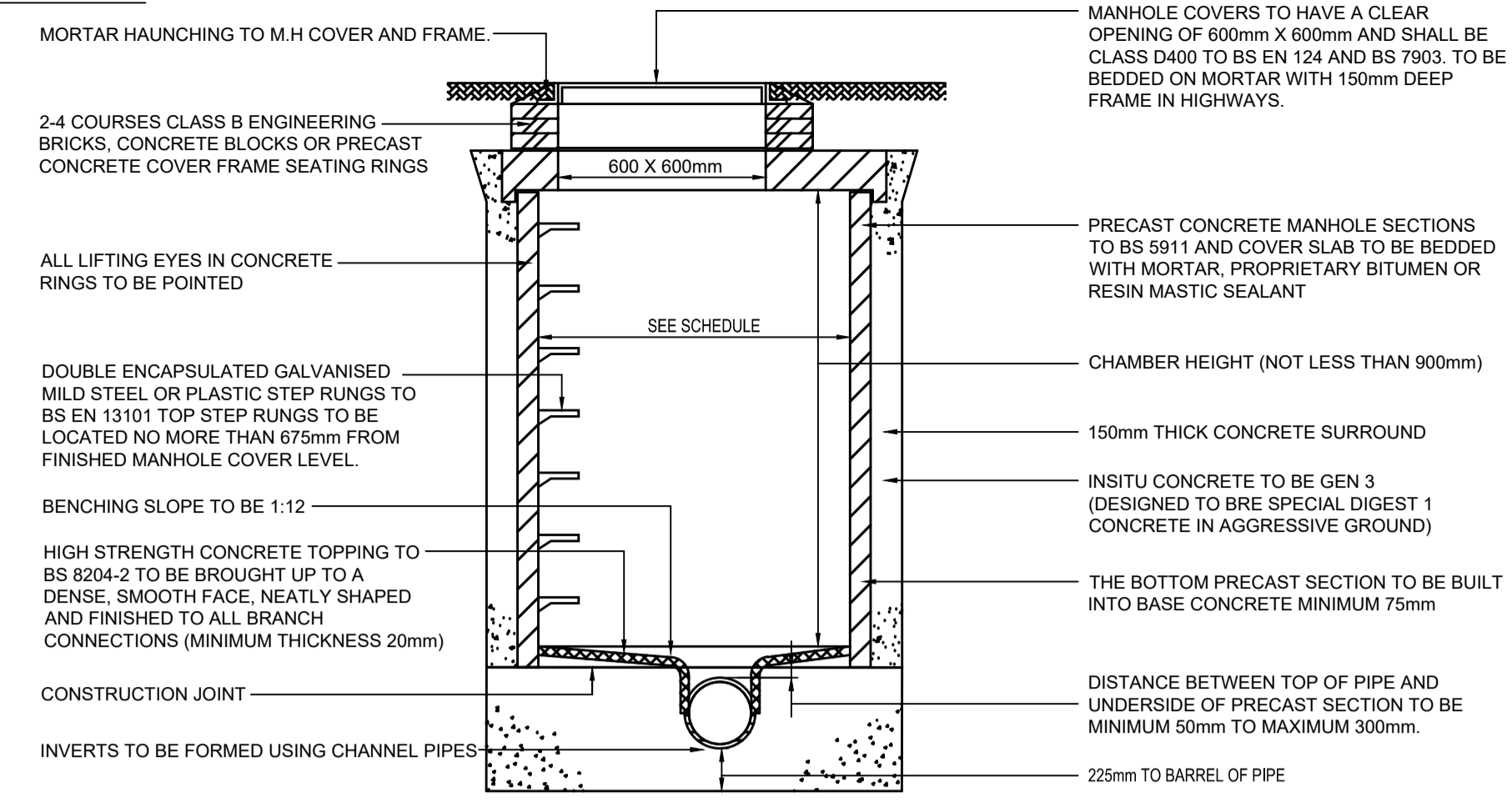
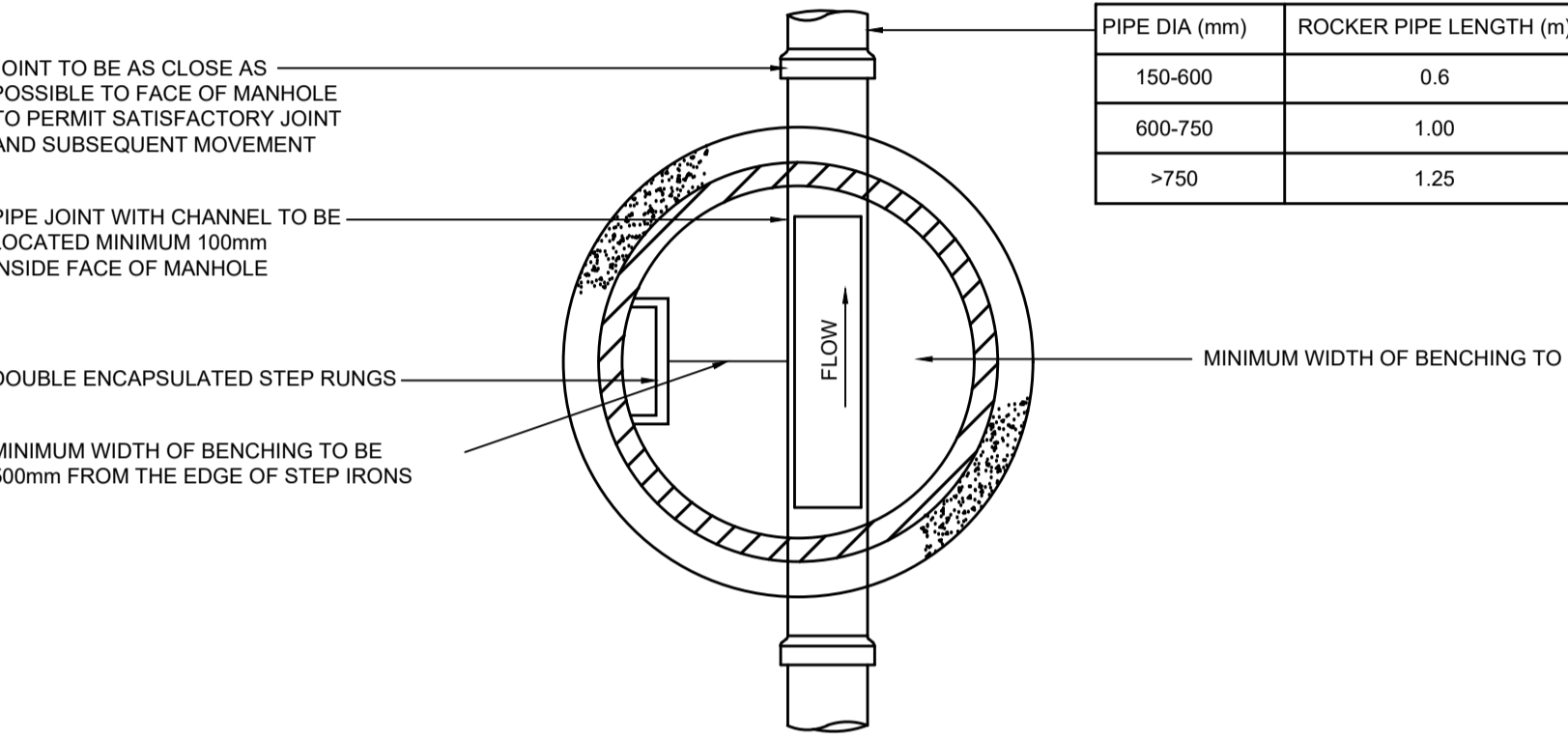


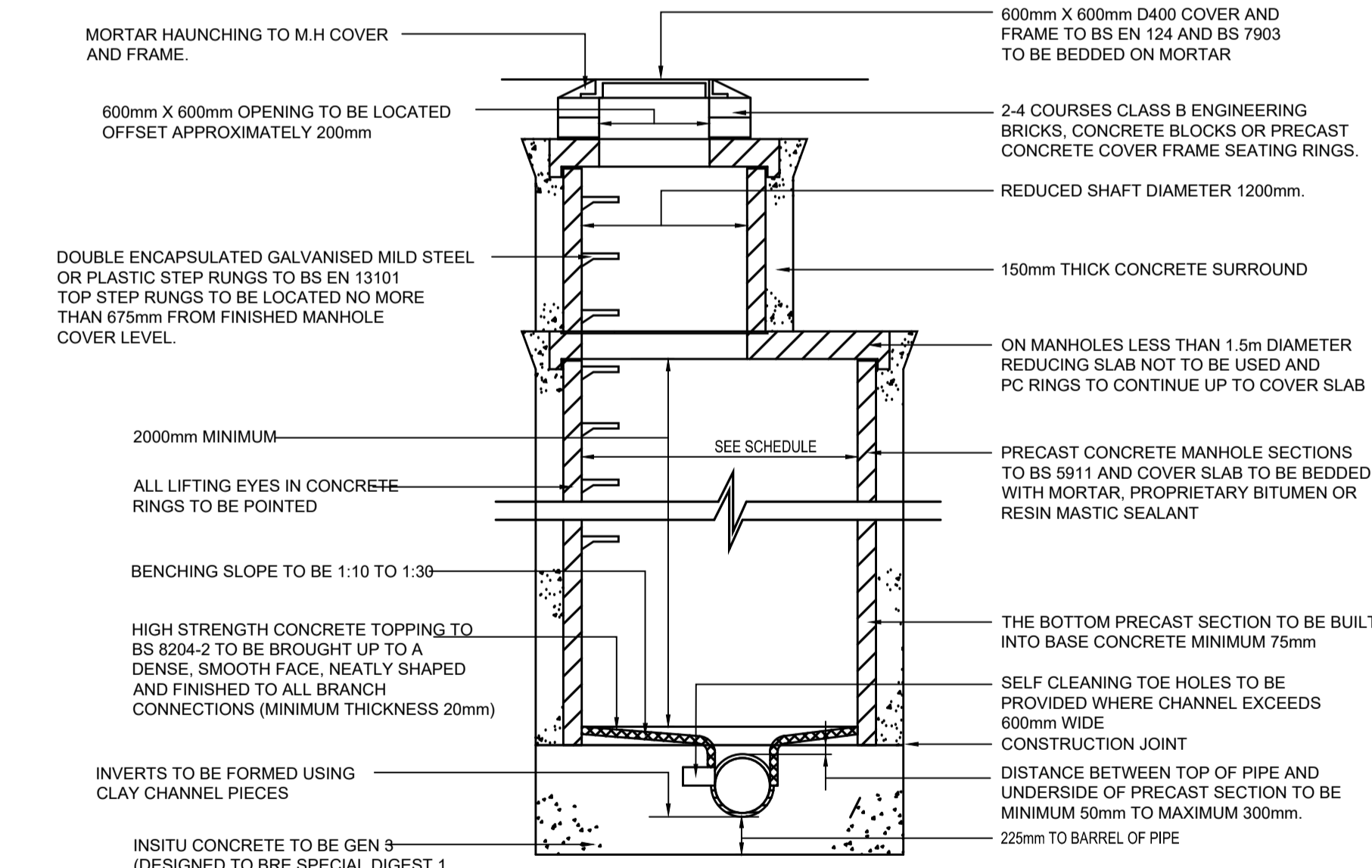
Notes:
 1. This drawing is to be read in conjunction with all relevant architect's and engineer's drawings.
 2. It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.



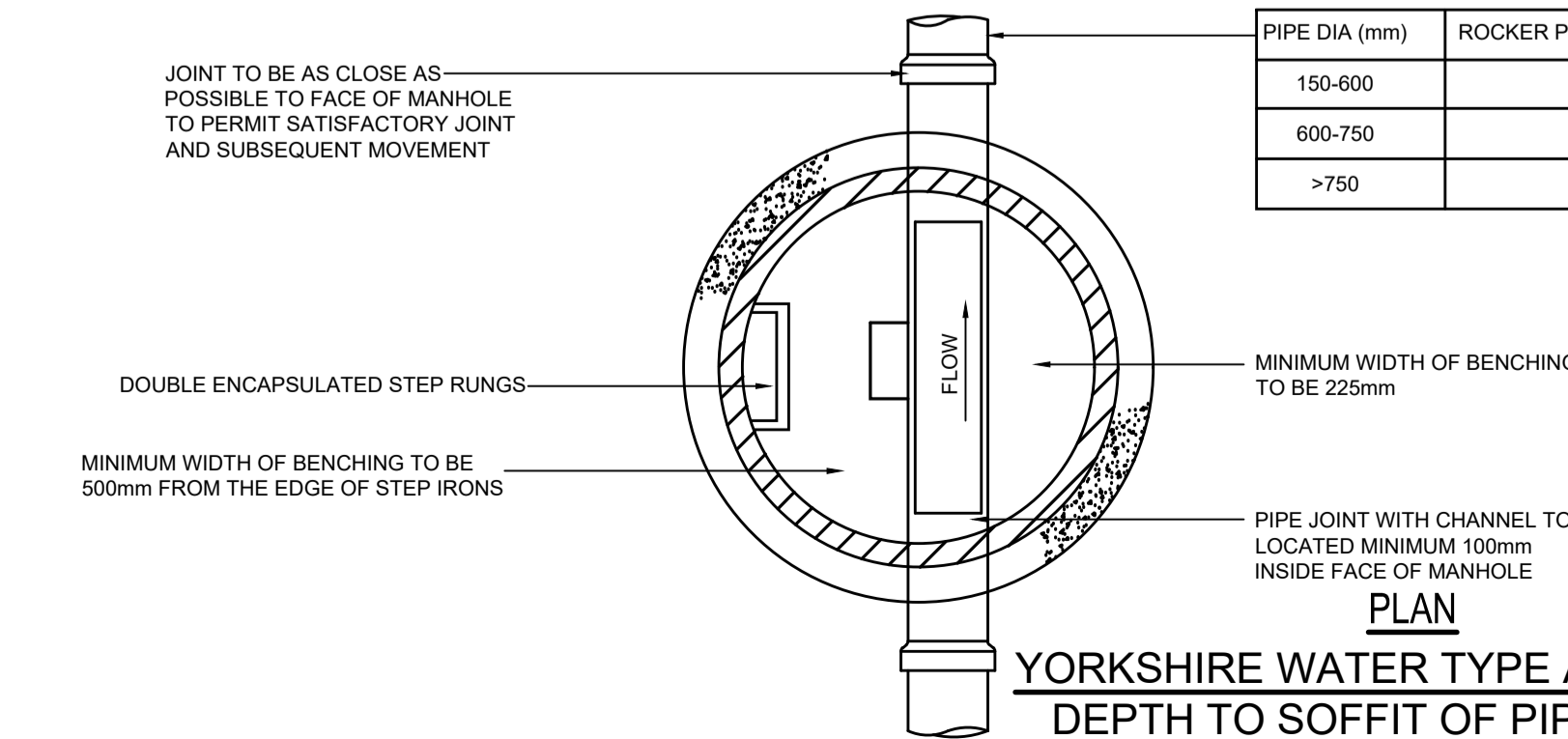
SECTION



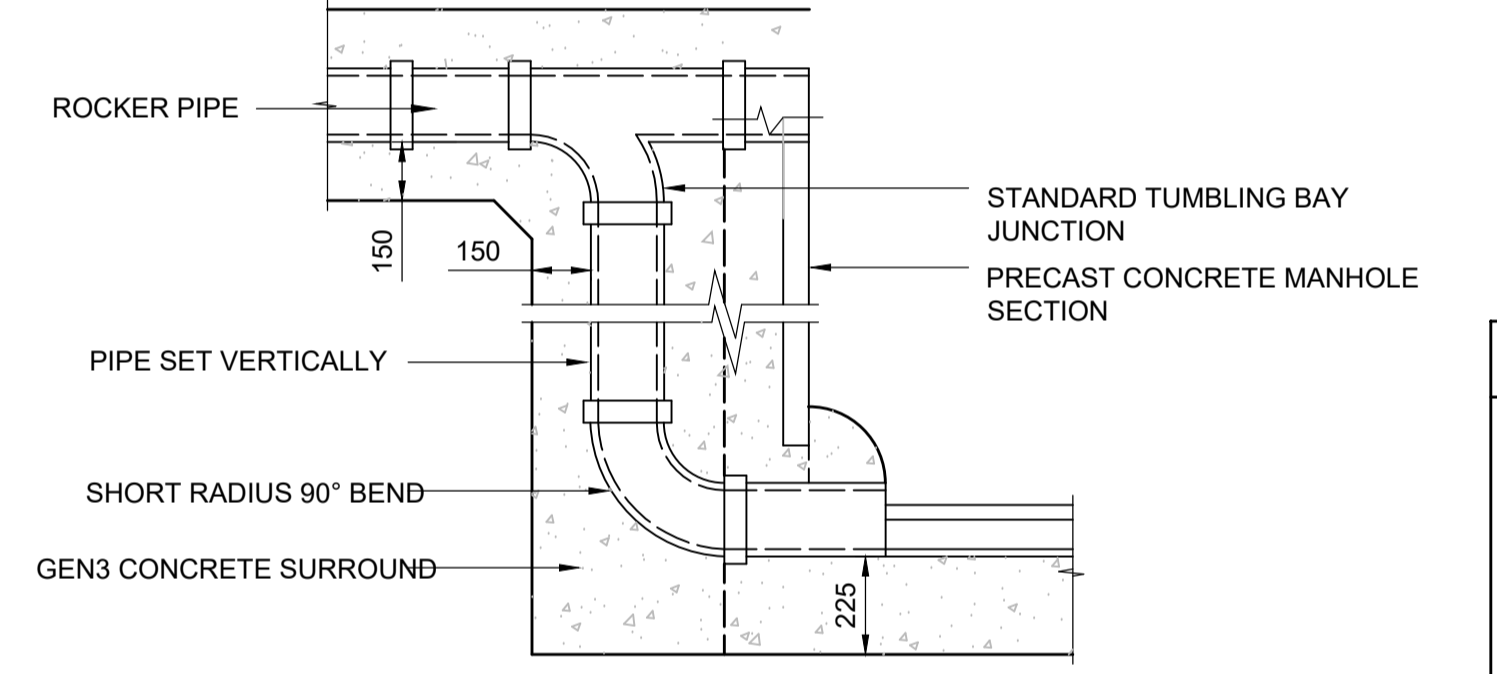
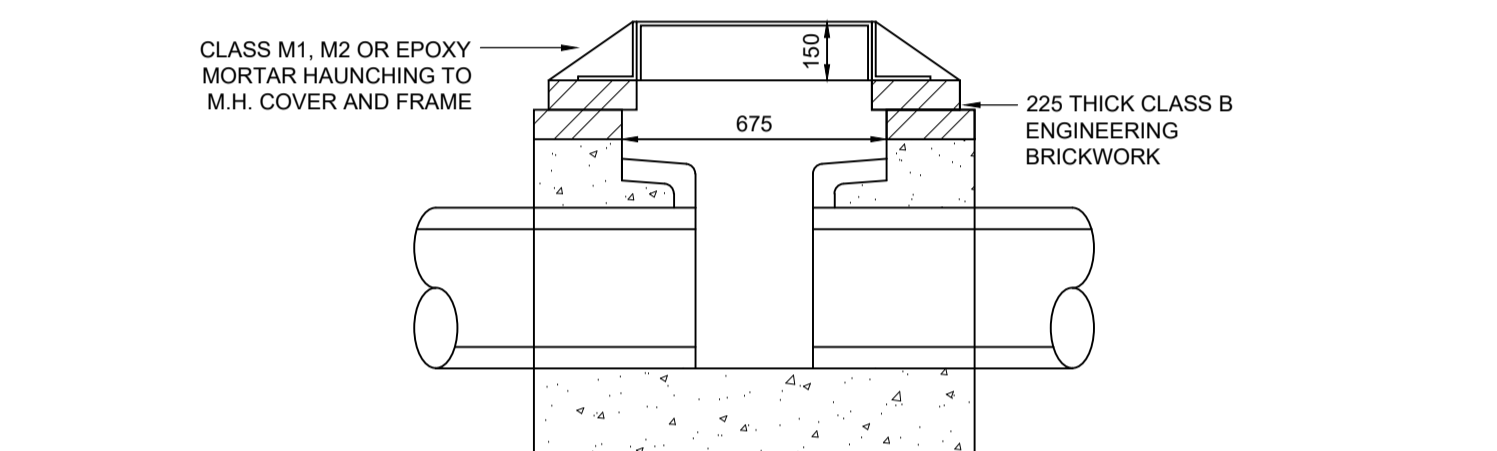
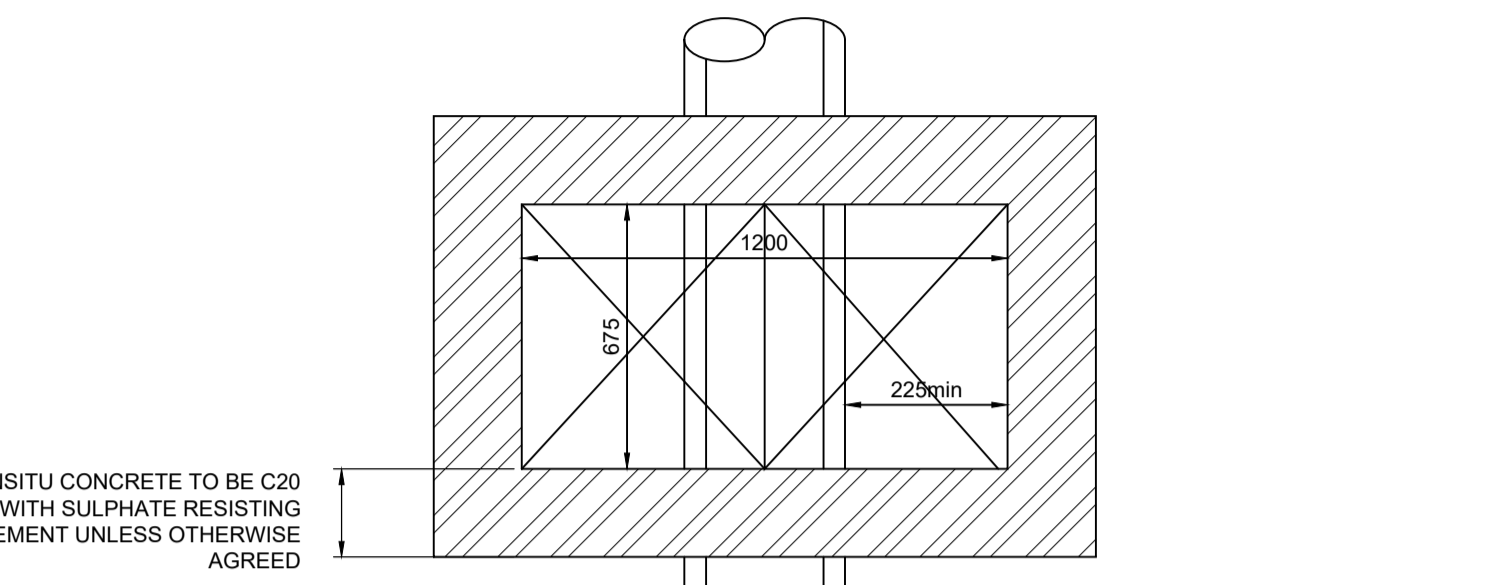
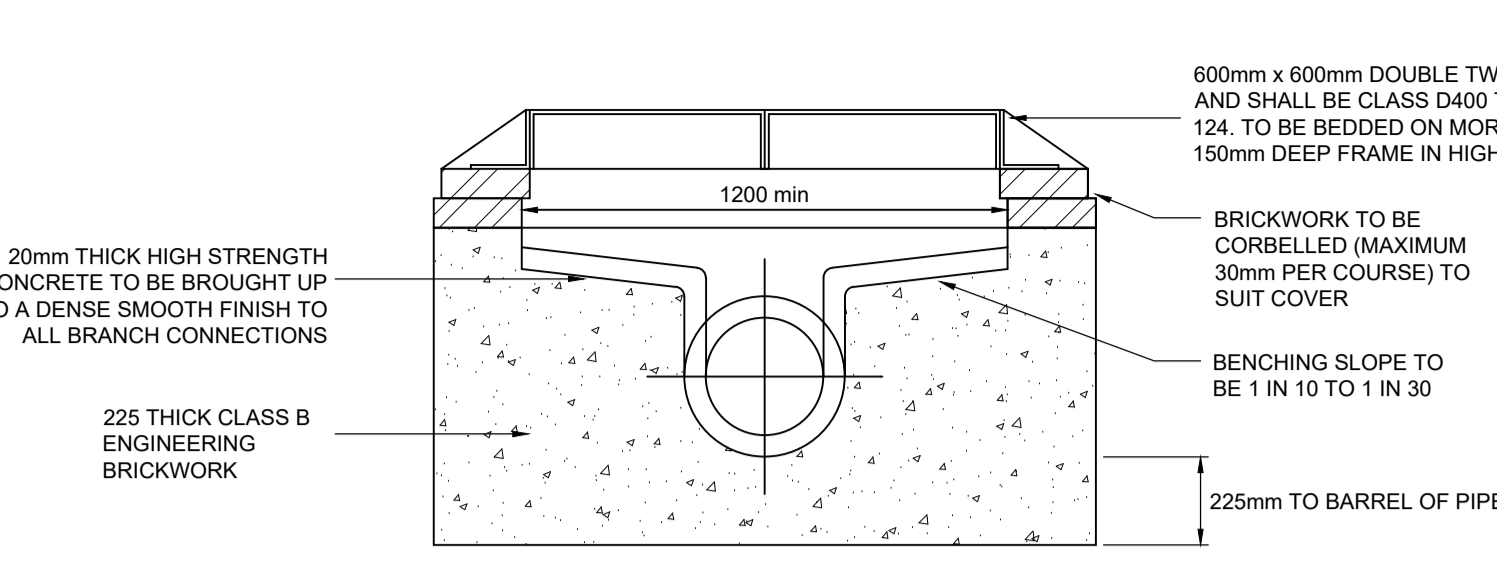
PLAN
YORKSHIRE WATER TYPE B MANHOLE
 DEPTH TO SOFFIT OF PIPE 1.2m - 3m
 SCALE 1:20



SECTION

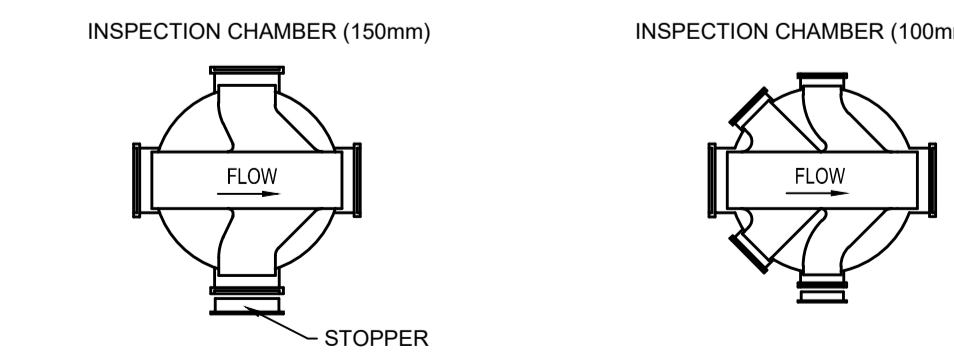
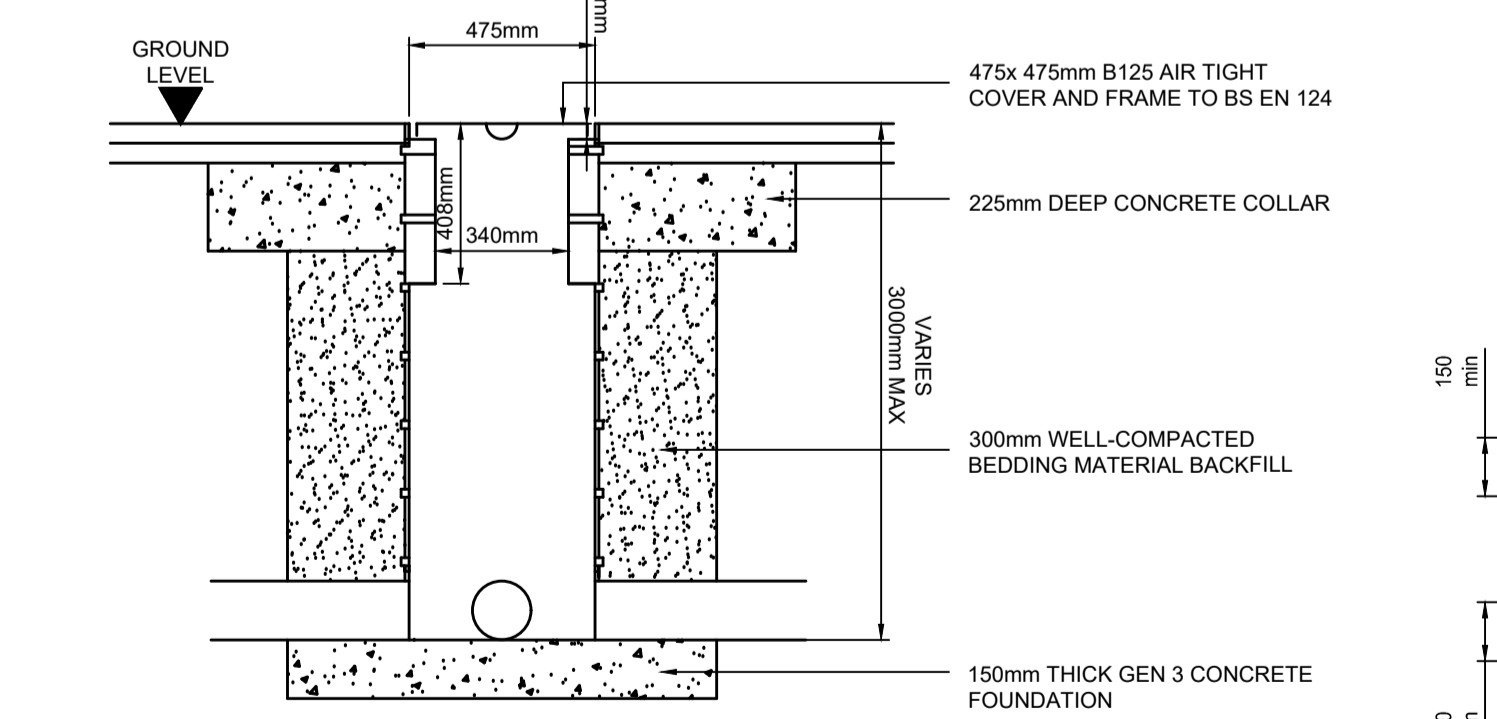


PLAN
YORKSHIRE WATER TYPE A MANHOLE
 DEPTH TO SOFFIT OF PIPE 3m - 6m
 SCALE 1:20

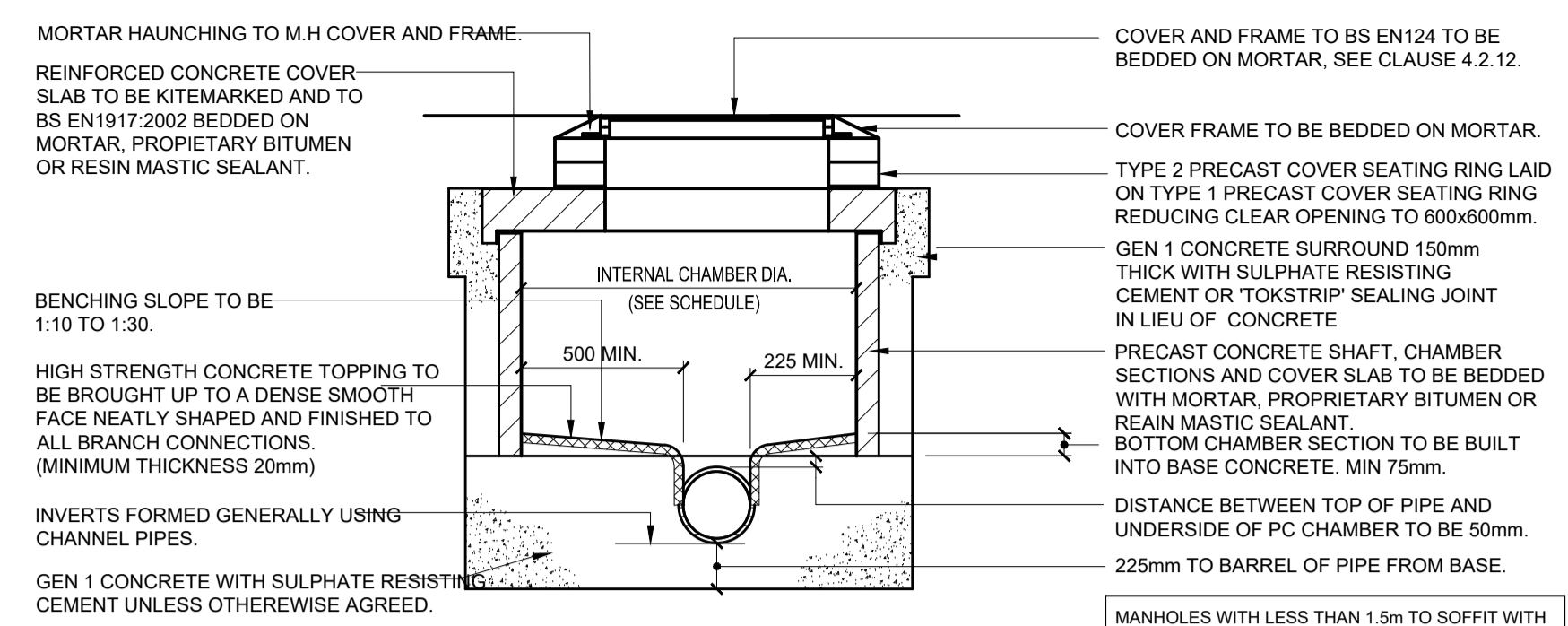


VERTICAL BACKDROP DETAIL
 SCALE 1:20

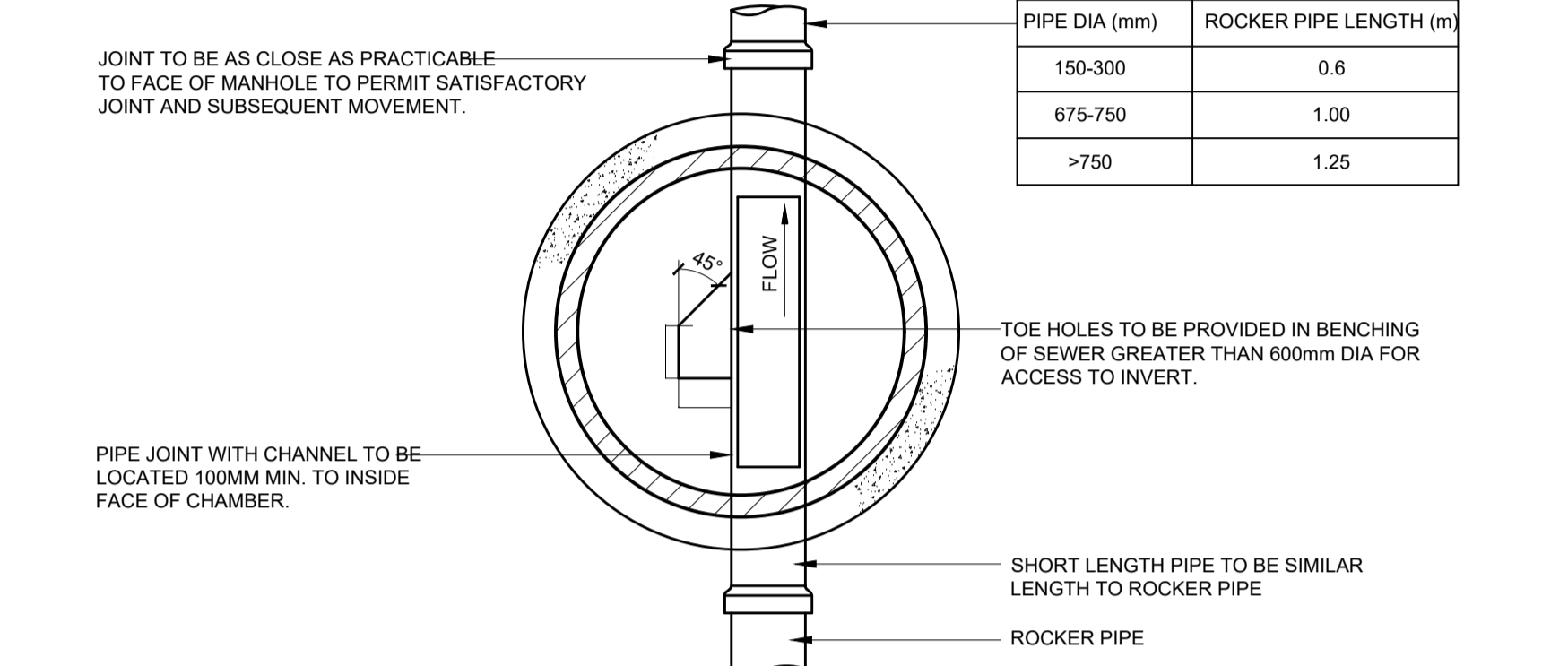
BACKDROP BROUGHT TO TOP OF BENCHING.
 THERE SHOULD BE A MINIMUM OF 900mm BETWEEN THE INVERT OF THE RODDING EYE AND THE SOFFIT OF THE INCOMING CONNECTION.
 TWO NO. 45° BENDS (WHERE PIPE EXCEEDS 300mmØ 90° BEND MAY BE USED)



475mmØ REDUCED ACCESS POLY-PROPYLENE INSPECTION CHAMBER (PPIC) TO BS EN 752 (SCALE 1:20)



SECTION

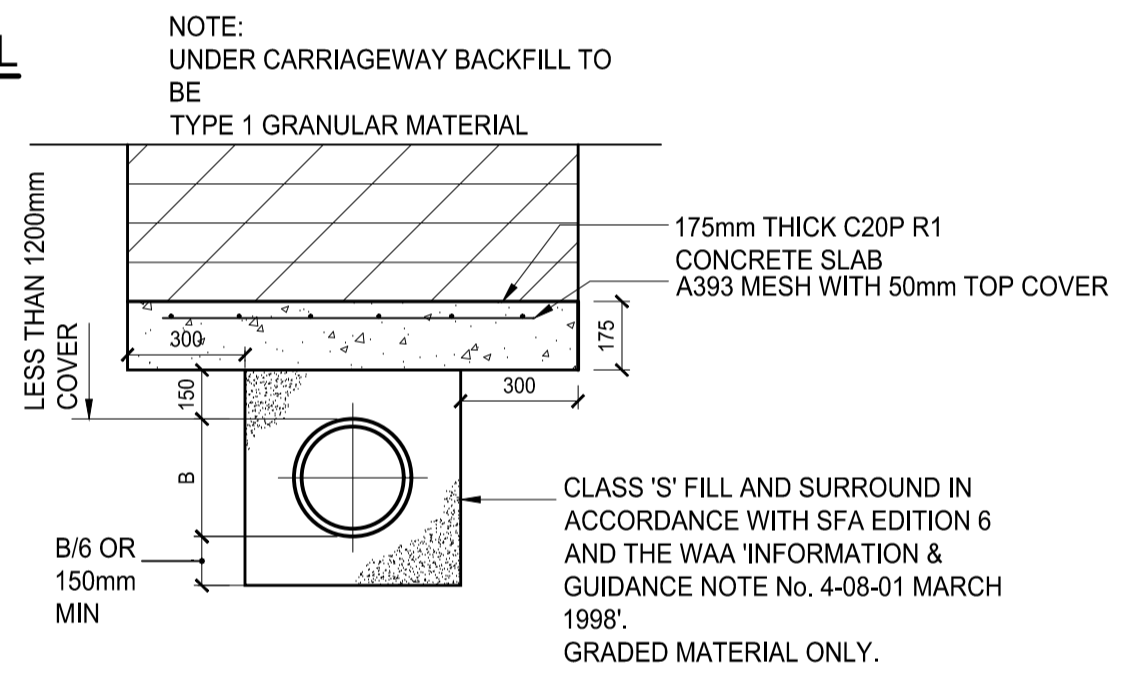


PLAN

TYPE B1/E SHALLOW MANHOLE
 DEPTH OF COVER TO PIPE 1-1.5m
 OPENING TO BE SITED OVER CHANNEL

KEY

- GRANULAR MATERIAL COMPLYING WITH IGN 4-08-01
- SELECTED EXCAVATED MATERIAL, COMPLYING WITH CLAUSE 2.49 AND 3.6 OF 'CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY - 6TH EDITION IN LAYERS NOT EXCEEDING 225mm UNCONSOLIDATED THICKNESS, AND THEN FULLY COMPACTED TO FORM A STABLE BACKFILL
- GRANULAR SUB-BASE MATERIAL (DOT TYPE 1) DEPOSITED IN LAYERS NOT EXCEEDING 225mm UNCONSOLIDATED THICKNESS THEN FULLY COMPACTED



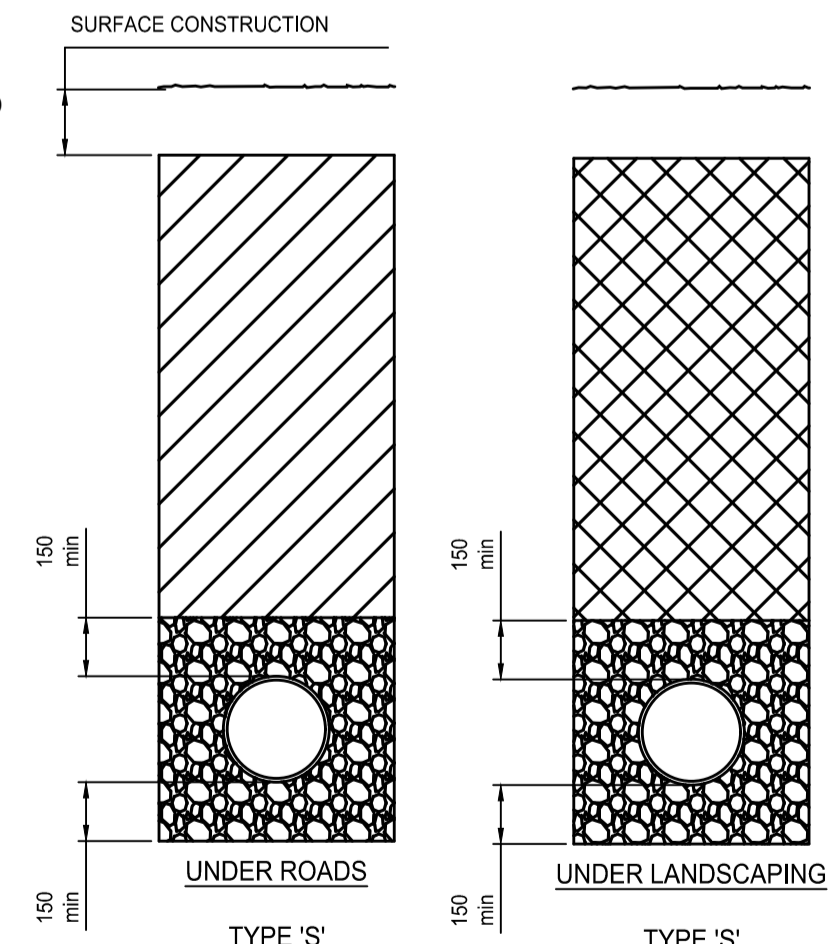
NOTE: NO MECHANICAL COMPACTION WITHIN 300mm OF CROWN OF PIPE

SIZING OF BEDDING MATERIAL TO IGN 4-08-01

PIPE DIAMETER	AGGREGATE	
	NOMINAL SINGLE-SIZED	GRADED
UP TO 100mm	10mm	
OVER 100mm TO 150mm	10mm 14mm	14mm TO 5mm
OVER 150mm TO 300mm	10mm 14mm 20mm	14mm TO 5mm 20mm TO 5mm
OVER 300mm TO 550mm	14mm 20mm	14mm TO 5mm 20mm TO 5mm
OVER 550mm	14mm 20mm 40mm	14mm TO 5mm 20mm TO 5mm 40mm TO 5mm

MINIMUM SUPPORTED TRENCH WIDTHS TO BS EN 1610

OUTSIDE DIAMETER	WIDTH OF TRENCH			
	TRENCH DEPTH			
	0m - 0.99m	1.00m - 1.74m	1.75m - 3.99m	4.00m+
100mm	500mm	800mm	900mm	1000mm
150mm	550mm	800mm	900mm	1000mm
225mm	625mm	800mm	900mm	1000mm
300mm	800mm	900mm	900mm	1000mm
375mm		1075mm		
450mm		1150mm		
525mm		1225mm		
600mm		1300mm		
675mm		1375mm		
750mm		1600mm		
825mm		1675mm		
900mm		1750mm		
975mm		1825mm		
1050mm		1900mm		
1200mm		2050mm		
OVER 1200mm	PIPE DIAMETER + 1000mm			



DRAINS WITH GRANULAR (TYPE S) BED AND SURROUND
 (SCALE 1:20)

DRAIN SURROUND DETAILS

P2	AMENDED TO SUIT YW COMMENTS	15.10.20	RT
No.	Revision	Date	Drwn
Status	PRELIMINARY		
Client	SIGNATURE HOMES		
Project	NEW MILL ROAD HOLMFIRTH		
Drawing title	S104 Drainage Details		
Drawn	TA	Chkd	AD
Date	Mar 2020	Scale	As Shown @ A1
Contract No.	19539	Drig No.	DR-C-0116
Revision			P2