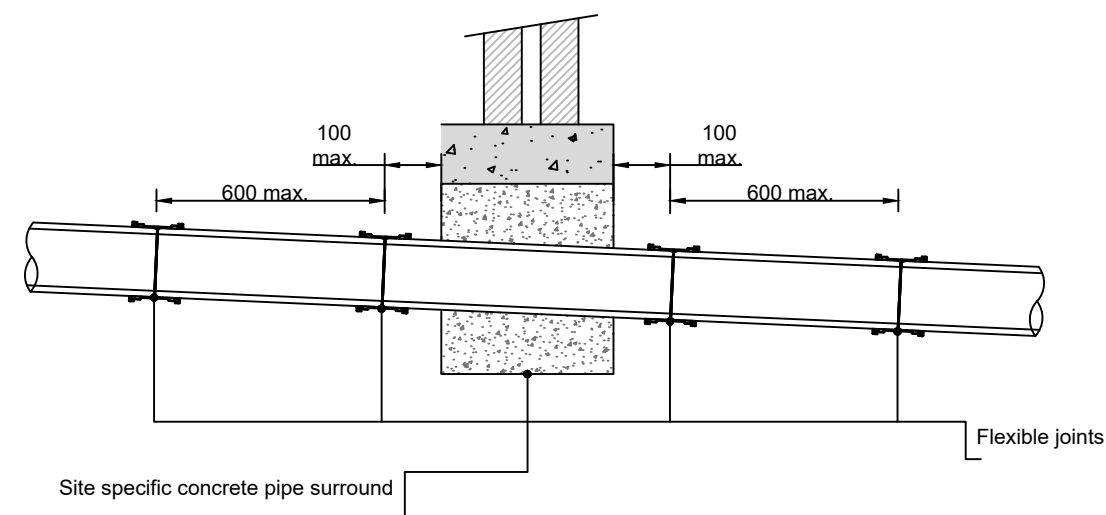
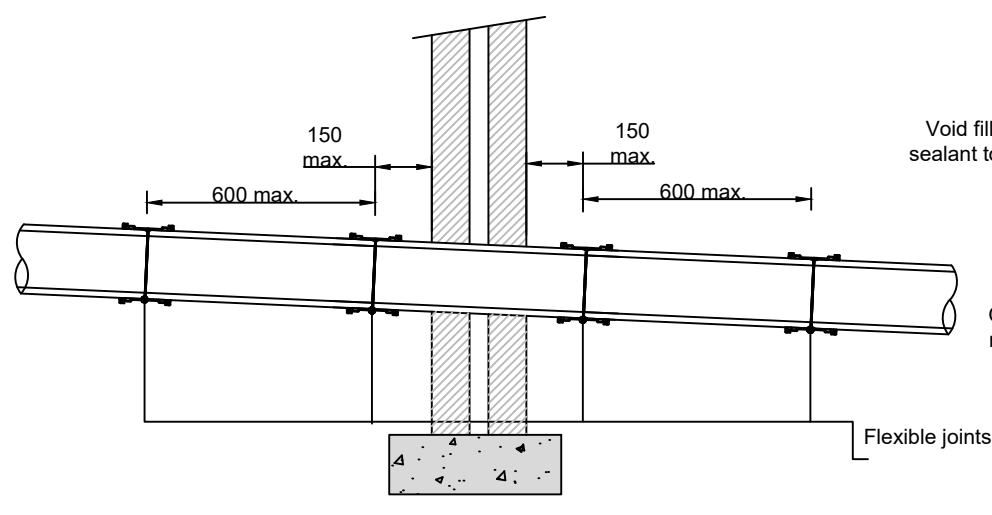
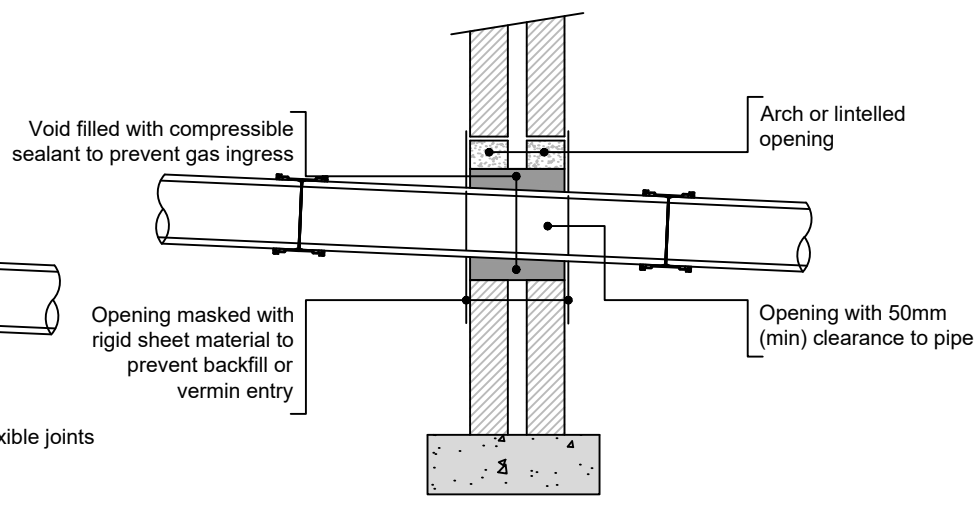




PIPES CONSTRUCTED BENEATH FOUNDATIONS
(Not to scale)



PIPES CONSTRUCTED THROUGH WALLS
(PIPE BEDDING INTO WALL)
(Not to scale)

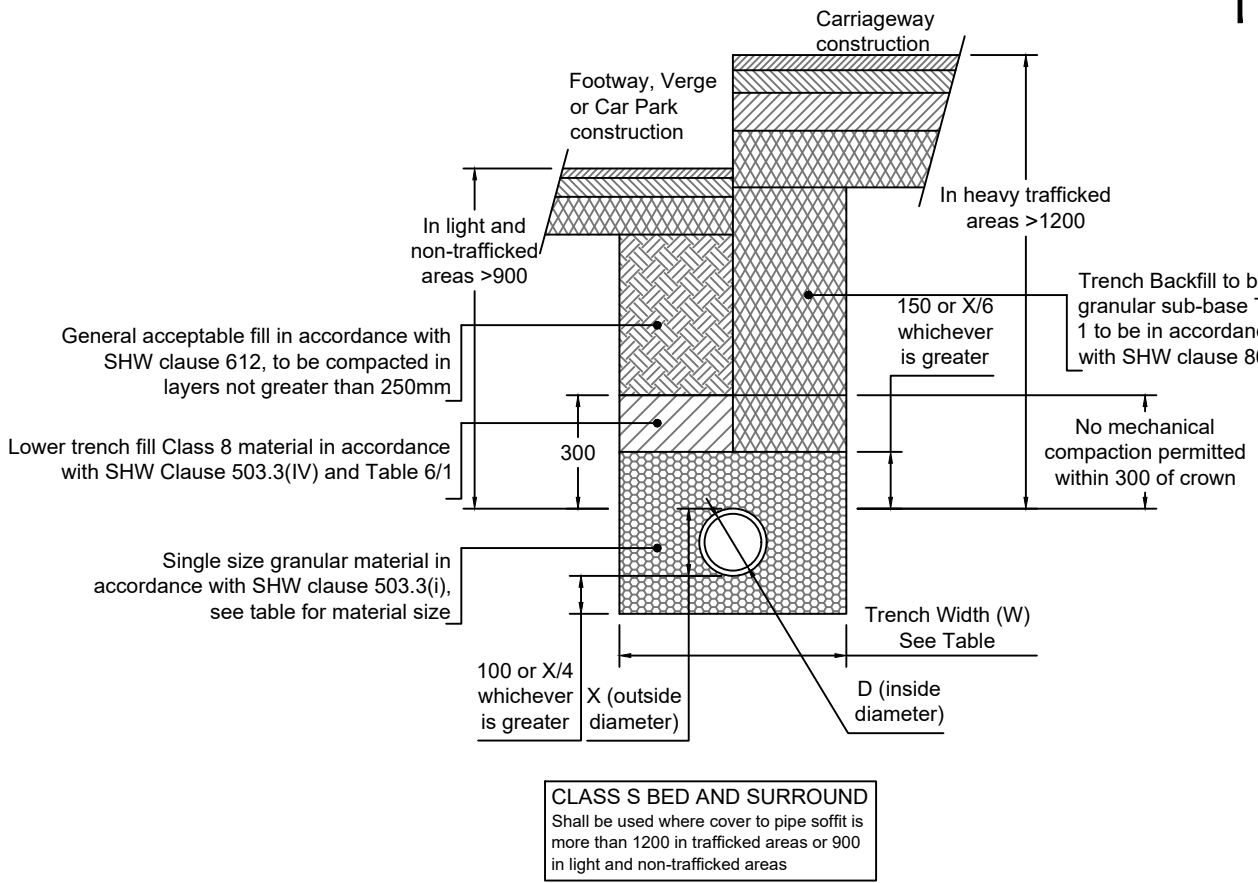


PIPES CONSTRUCTED THROUGH WALLS
(WITH ARCH / LINTEL PROTECTION)
(Not to scale)

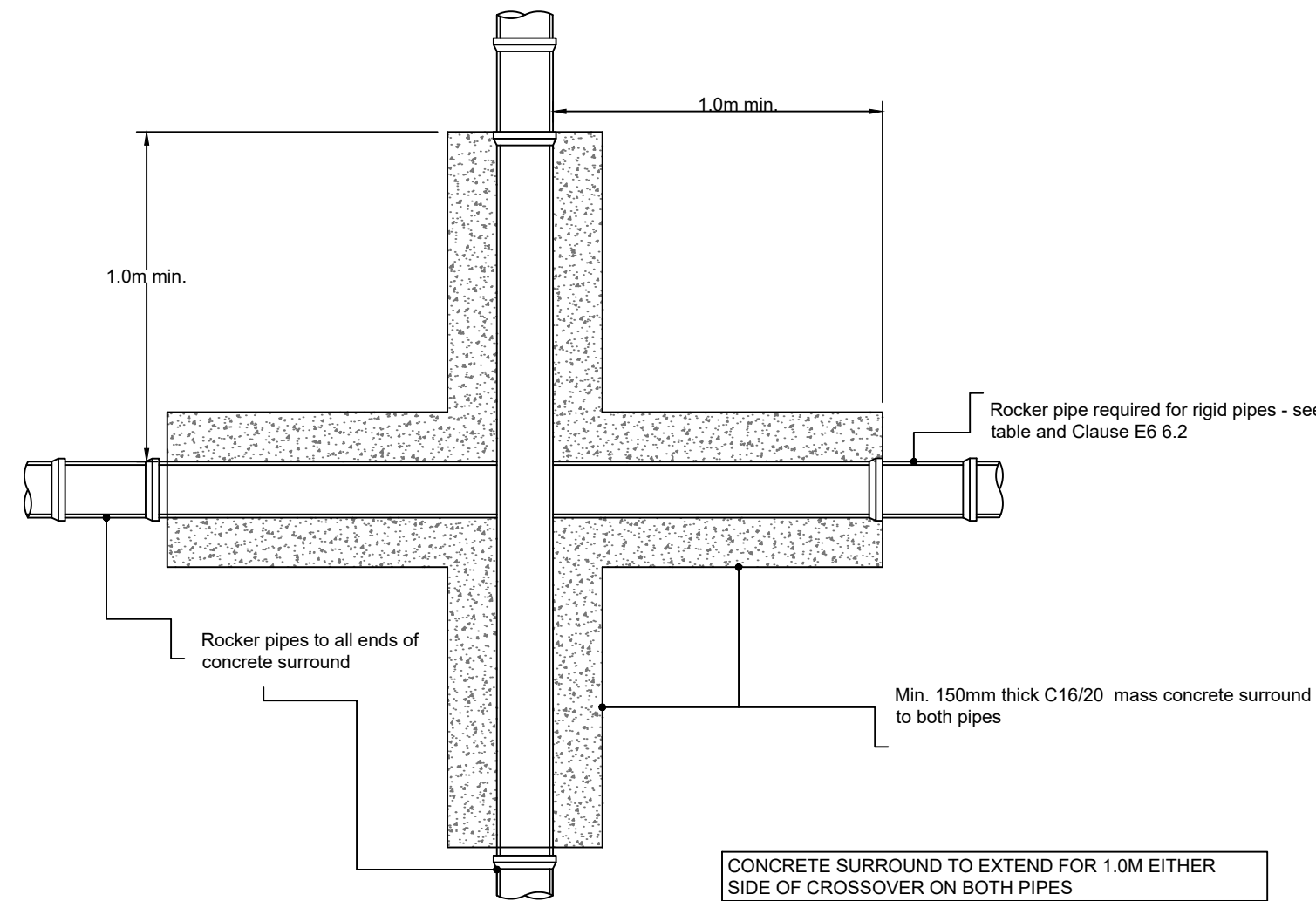
Table: Trench Widths: Classes B, S and Z		
Pipe Diameter (D) (mm)	Min Trench Width (Wmin) (mm)	Max Trench Width (Wmax) (mm)
100	420	720
150	480	780
225	580	880
300	710	1010
375	790	1090
450	880	1180
525	970	1270
600	1070	1370
675	1130	1430
750	1210	1510
800	1280	1580
900	1380	1680
1050	1560	1860
1200	1740	2040
>1200	X+300	X+600

- BED & SURROUND NOTES**
- Minimum trench width is X+300, maximum trench width is X+600, where X is the outside diameter of the pipe. These values are set in order for the trench to comply with BS EN 1295. Min and max values are provided in order to give flexibility to the Contractor to select appropriate bucket sizes.
 - No mechanical compaction permitted within 300mm of top of pipe.
 - This detail does not apply under buildings - see structural engineering drawings for trench reinstatements under buildings.

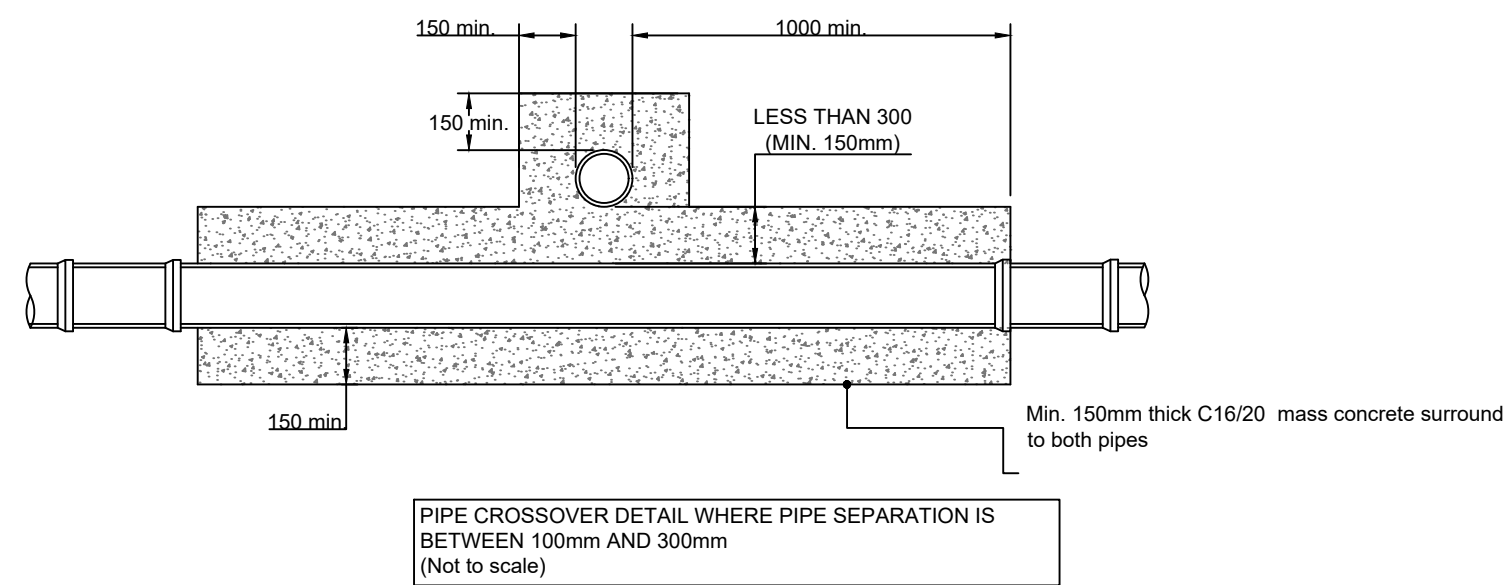
Table: Single size granular material	
Pipe Diameter (D) (mm)	Single Size Aggregate to BS EN 13242 (mm)
≤140	4/10
>140 and ≤400	10/20
>400	4/10, 6/14 10/20 or 20/40



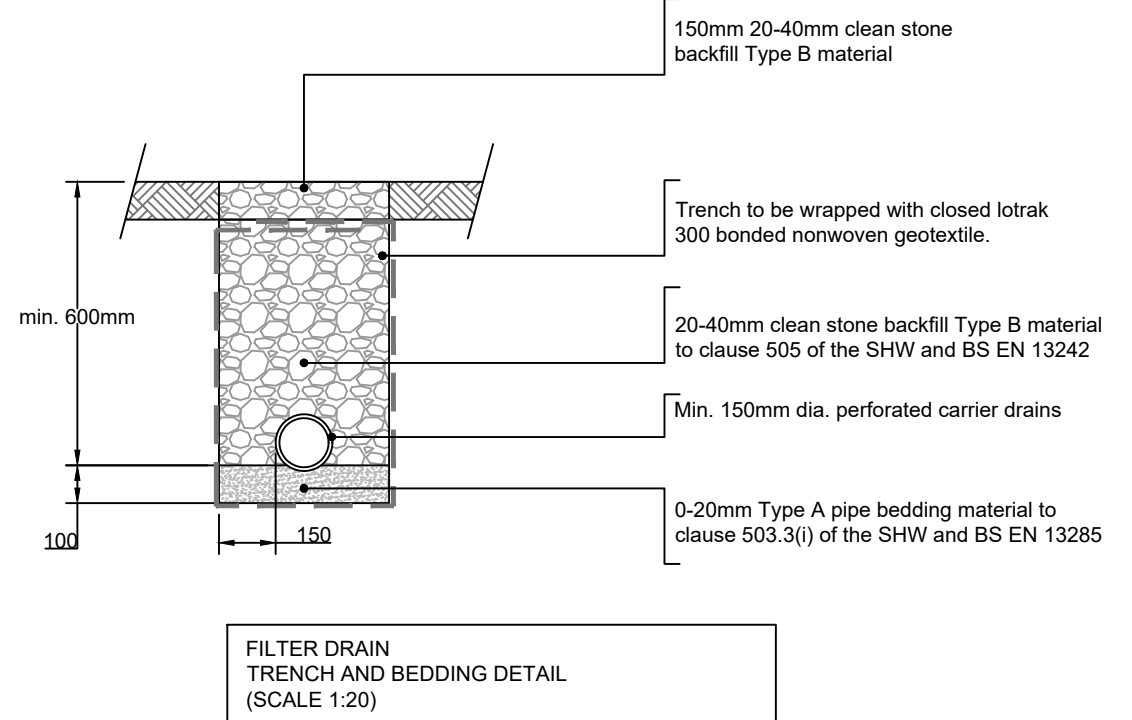
CLASS S BED AND SURROUND
Shall be used where cover to pipe soft is more than 1200 in trafficked areas or 900 in light and non-trafficked areas



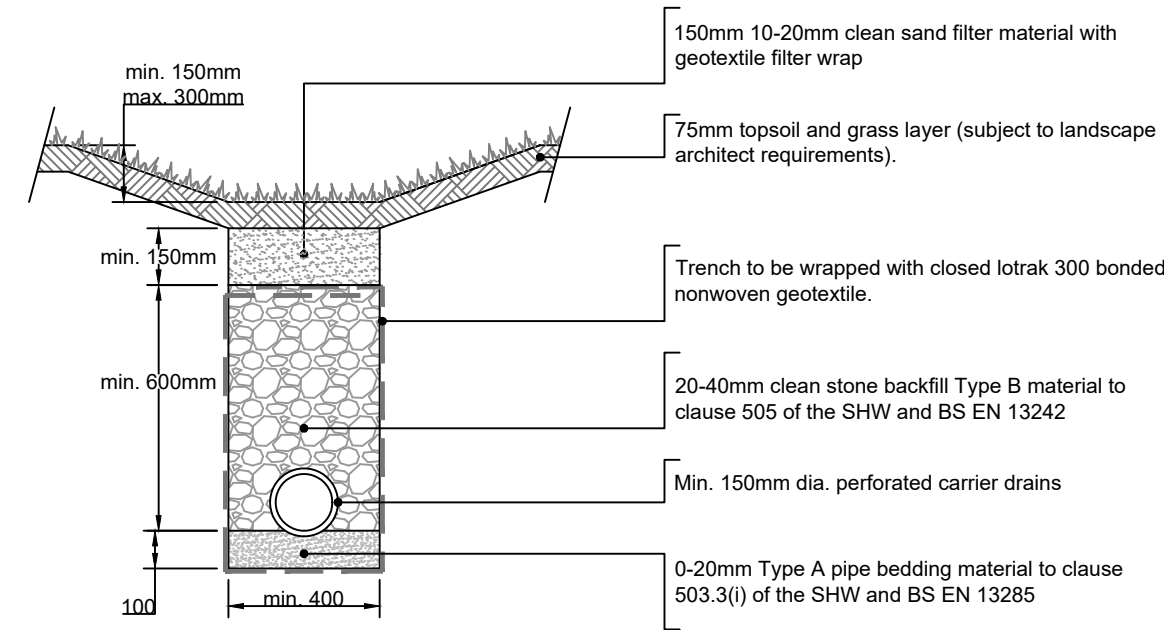
CONCRETE SURROUND TO EXTEND FOR 1.0M EITHER SIDE OF CROSSOVER ON BOTH PIPES



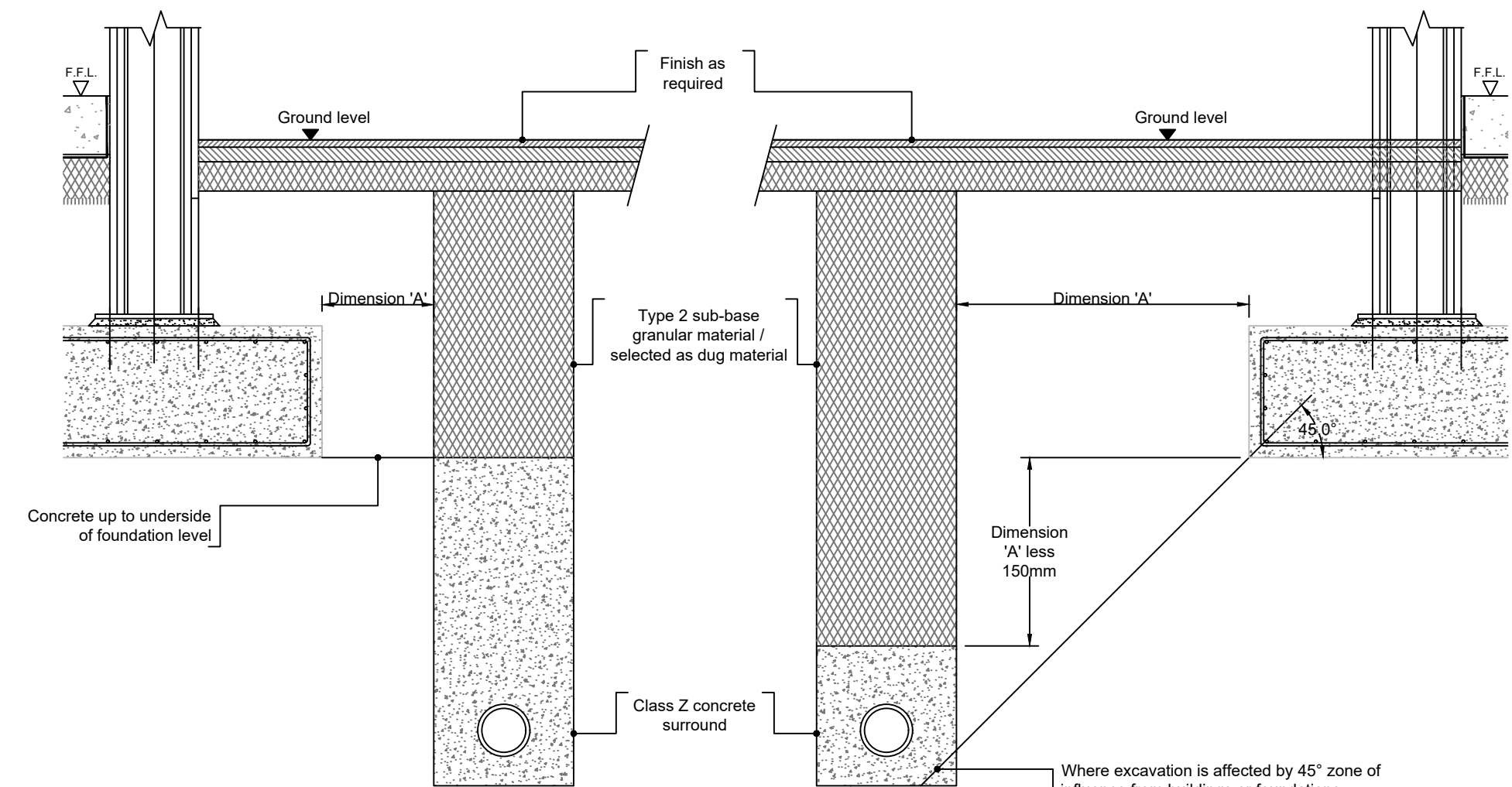
PIPE CROSSOVER DETAIL WHERE PIPE SEPARATION IS BETWEEN 100mm AND 300mm
(Not to scale)



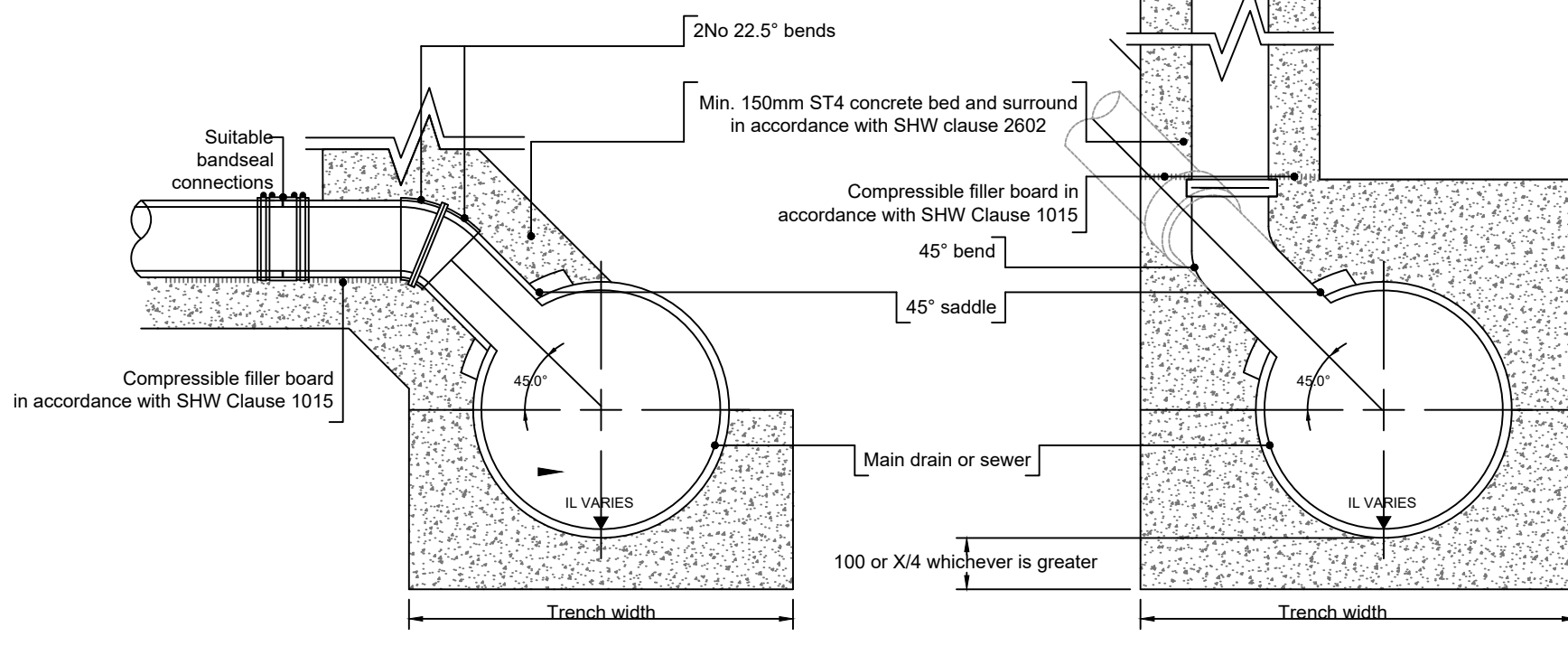
FILTER DRAIN TRENCH AND BEDDING DETAIL
(SCALE 1:20)



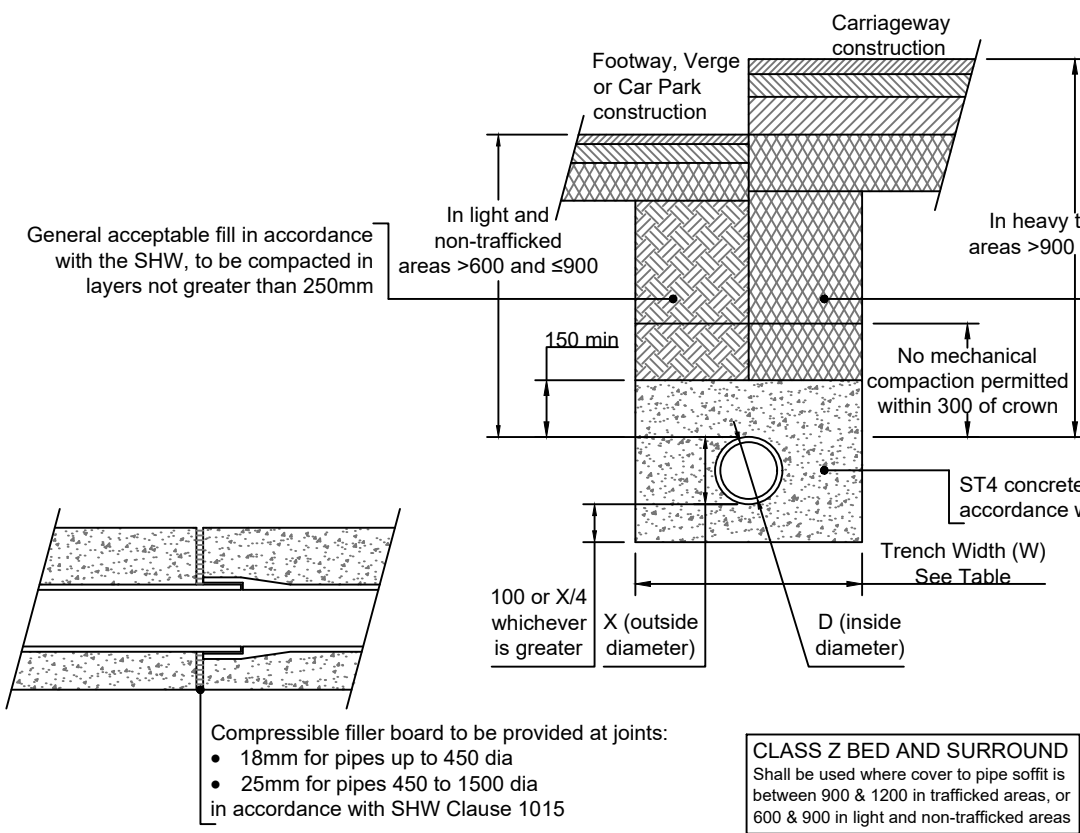
FRENCH DRAIN TRENCH AND BEDDING DETAIL
(SCALE 1:20)



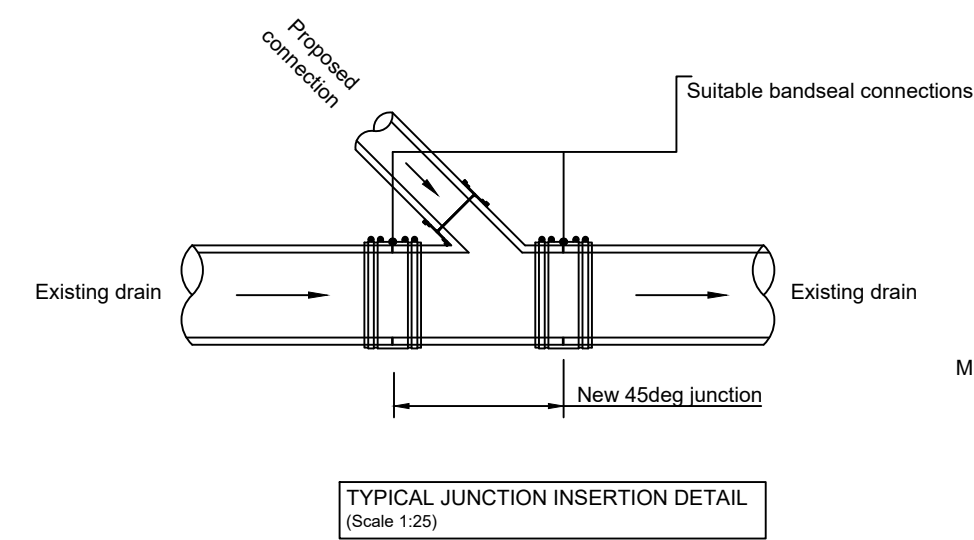
PIPE BED AND SURROUND IN CLOSE PROXIMITY TO FOUNDATIONS
(NOT TO SCALE)



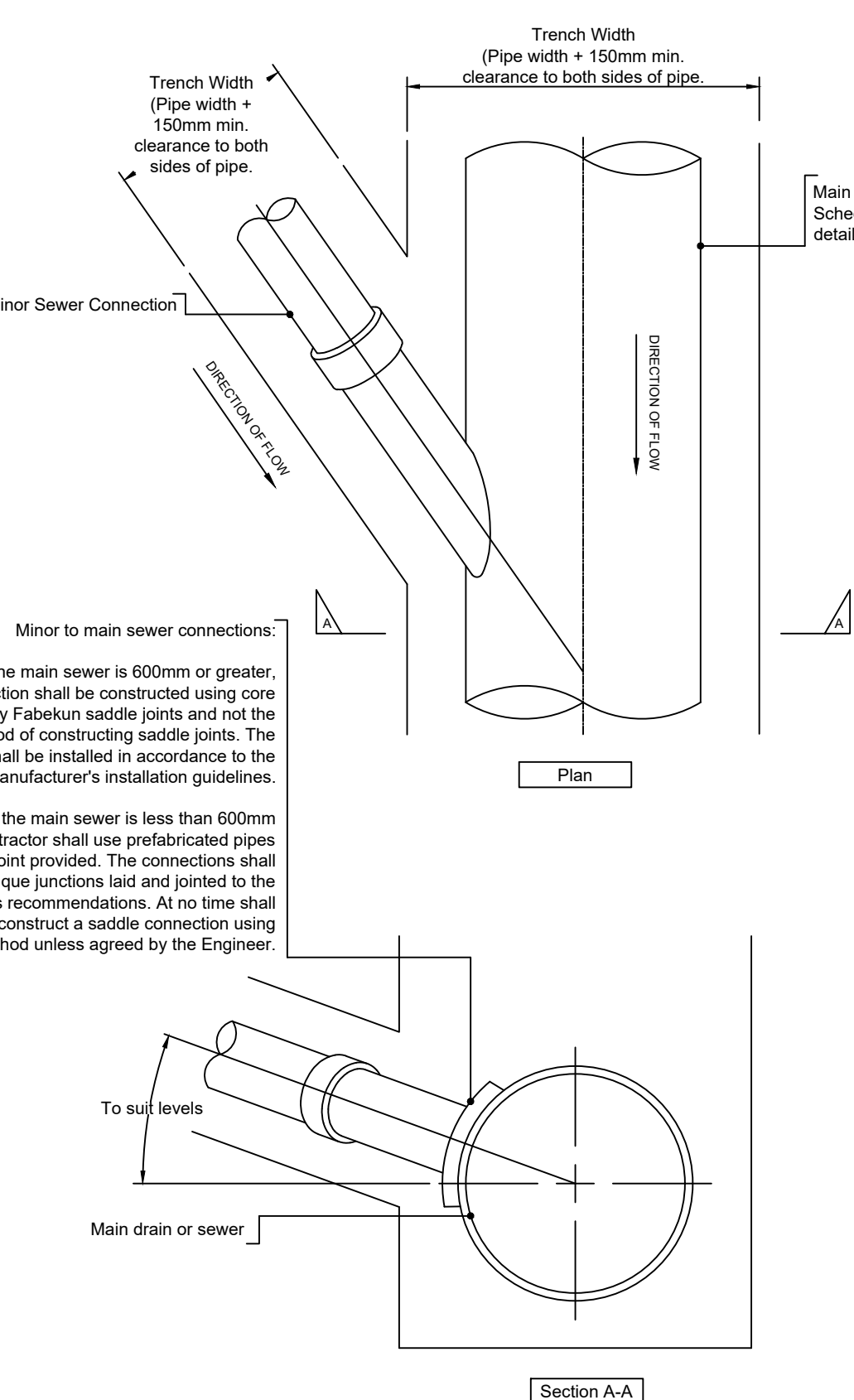
Shallow Saddle Connection
(Scale 1:20)



CLASS Z BED AND SURROUND
Shall be used where cover to pipe soft is between 900 & 1200 in trafficked areas, or 600 & 900 in light and non-trafficked areas



TYPICAL JUNCTION INSERTION DETAIL
(Scale 1:25)



Sewer Connection Detail for Minor Pipes Connecting into Main Sewer
(Scale 1:20)

DO NOT SCALE

- Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt ask.
- This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
- All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
- Any discrepancies noted on site are to be reported to the engineer immediately.
- This drawing is to be read in conjunction with the latest drainage layout drawing.
- Unless noted otherwise, all clauses relate to Sewer Sector Guidance Notes or Building Regulations Part H.
- To be read in conjunction with Roscoe drawings 'FE0012-ROS-XX-XX-R-C-0100' and 'FE0012-ROS-XX-XX-D-C-0500'.

REV	DATE	BY	DESCRIPTION	CHK	APP
P04	02.05.25	AY	STAGE 4 S5 ISSUE FOR APPROVAL	JT	JC
P03	18.04.25	KT	STAGE 4 DRAFT ISSUE	JT	JC
P02	13.12.24	KT	UPDATED TO SUIT CLIENT COMMENTS	JT	JC
P01	02.12.24	KT	STAGE 3 ISSUE	JT	JC

DRAWING STATUS:
S5: SUITABLE FOR REVIEW AND ACCEPTANCE



CLIENT: WILLMOTT DIXON

ARCHITECT: SHEPPARD ROBSON

PROJECT: HOPWOOD HALL COLLEGE
ROCHDALE

TITLE: DRAINAGE STANDARD DETAILS
SHEET 2

SCALE @ A1:	CHECKED:	APPROVED:
N.T.S	JT	JC
PROJECT NUMBER:	DESIGNED:	DRAWN:
24365	AY	KT

DRAWING No: FE0012-ROS-XX-XX-D-C-0561
REV: P04