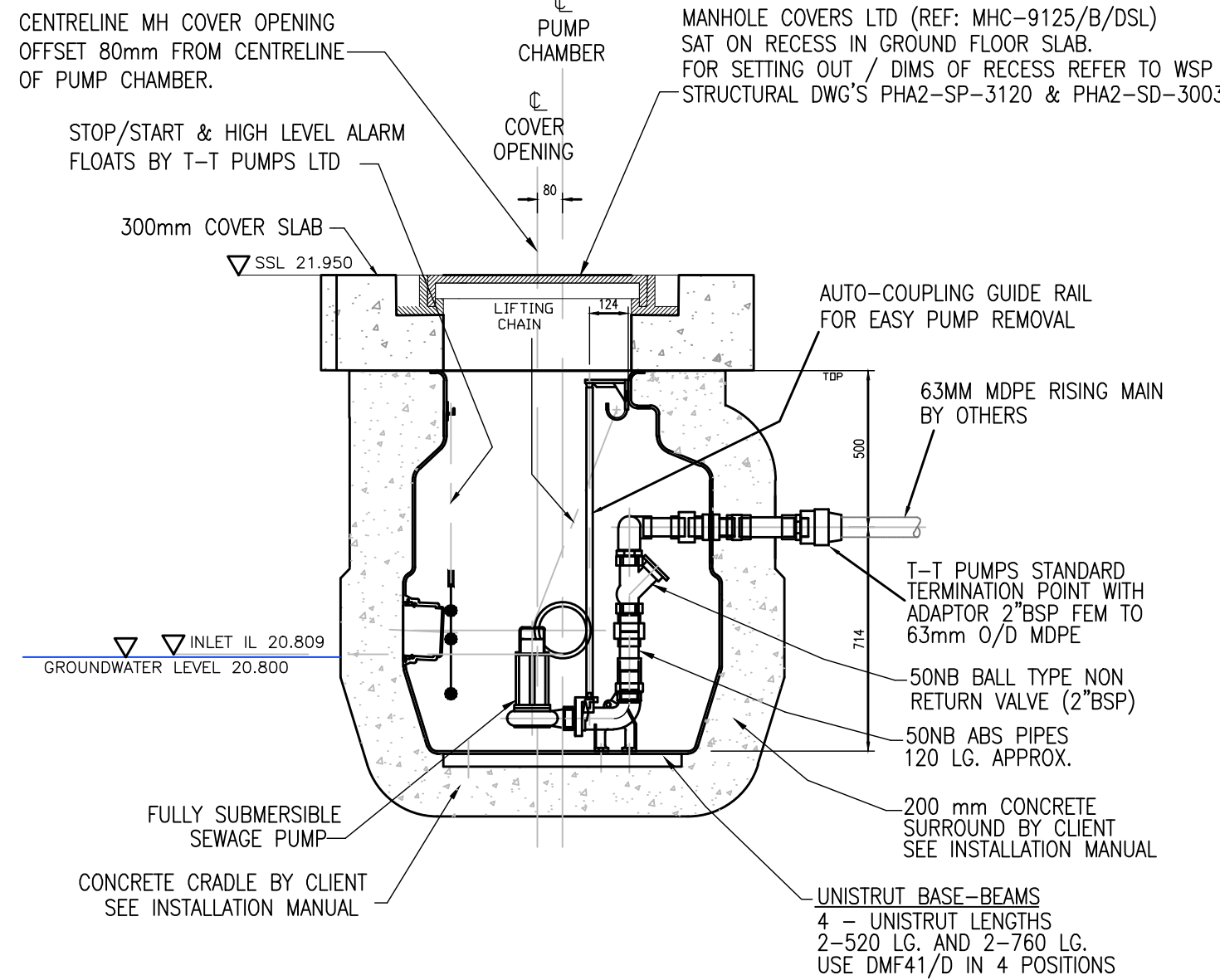
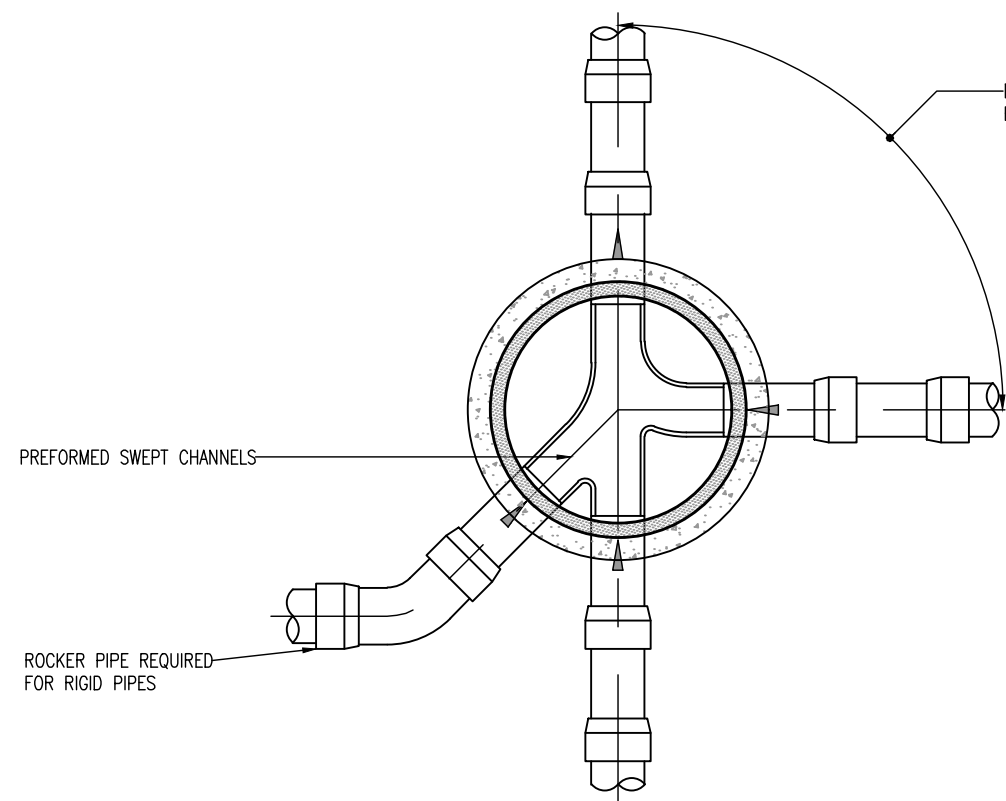




TT PUMPS MERCURY PACKAGE PUMP STATION – SECTION

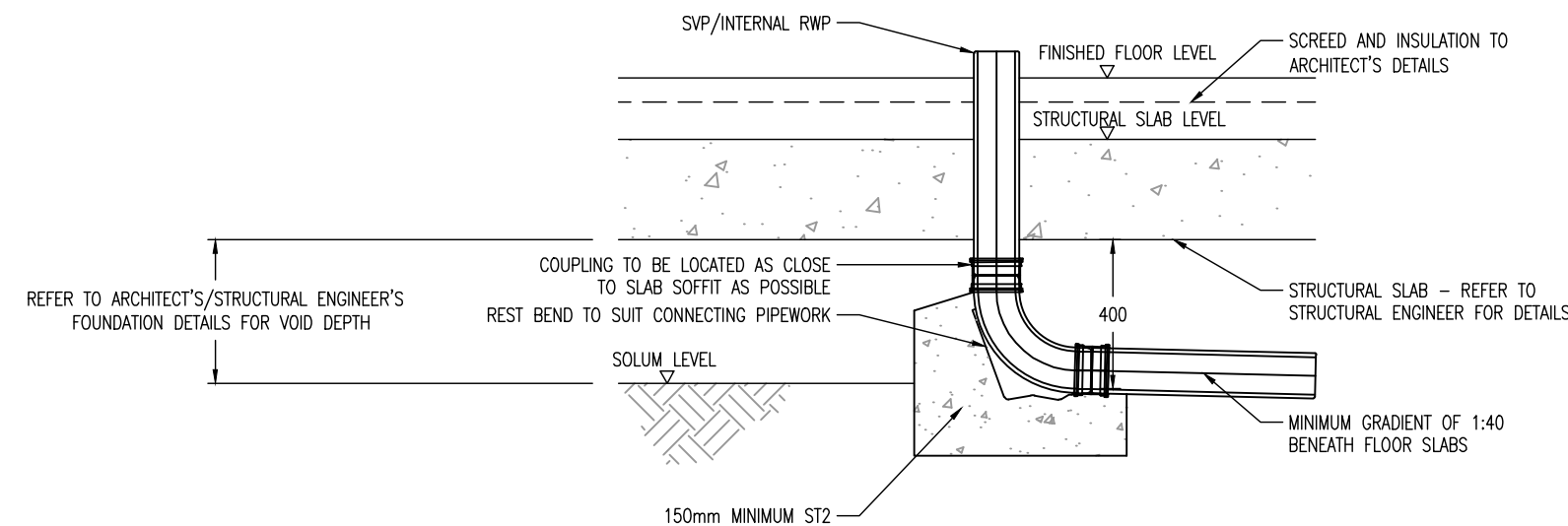
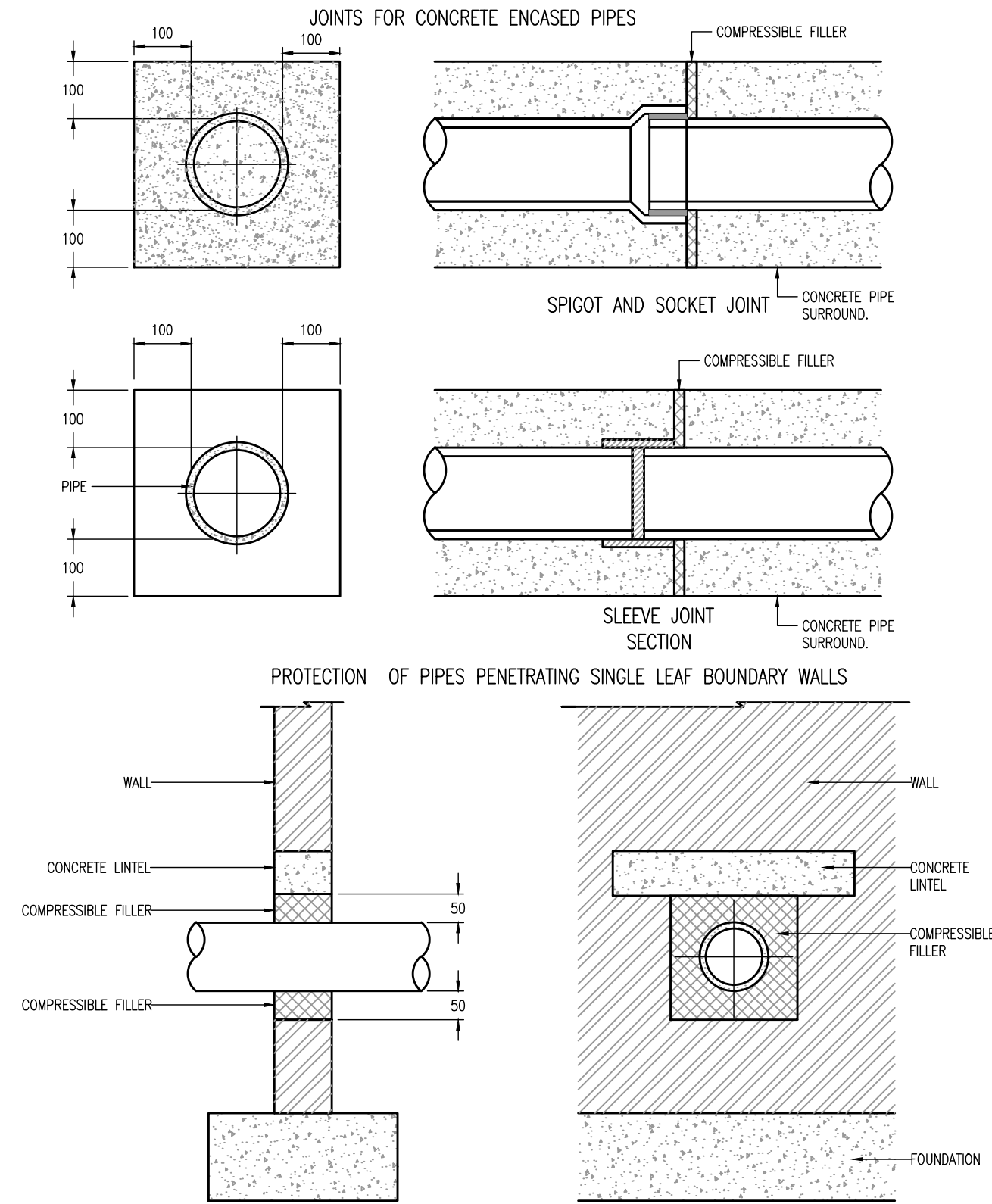
NOT TO SCALE



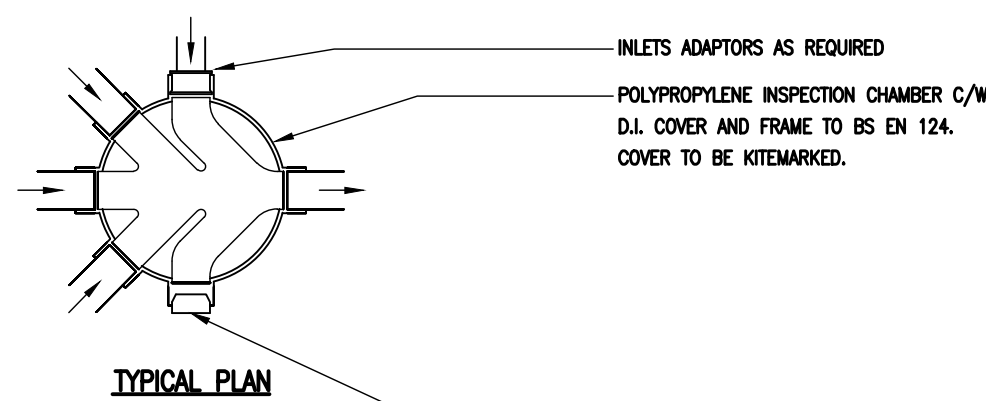
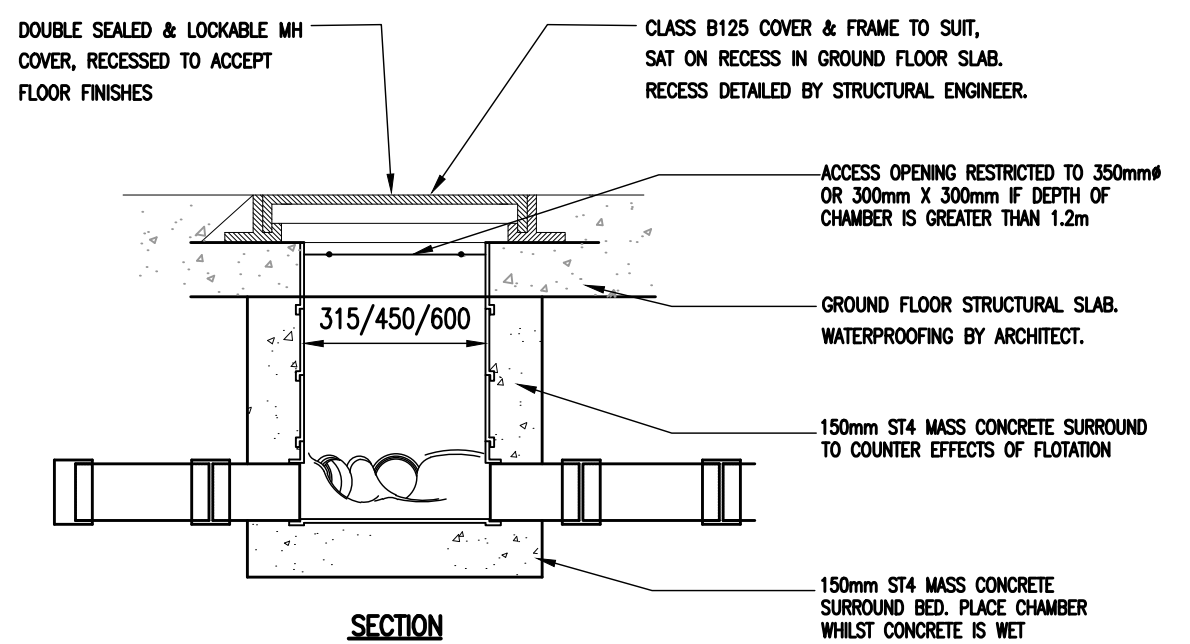
TYPICAL ARRANGEMENT OF PIPE JUNCTIONS WITHIN MANHOLES

MAXIMUM ROCKER PIPE LENGTHS	
NOMINAL DIAMETER (mm)	EFFECTIVE LENGTH (mm)
150 – 600	600
601 – 750	1000
OVER 750	1250

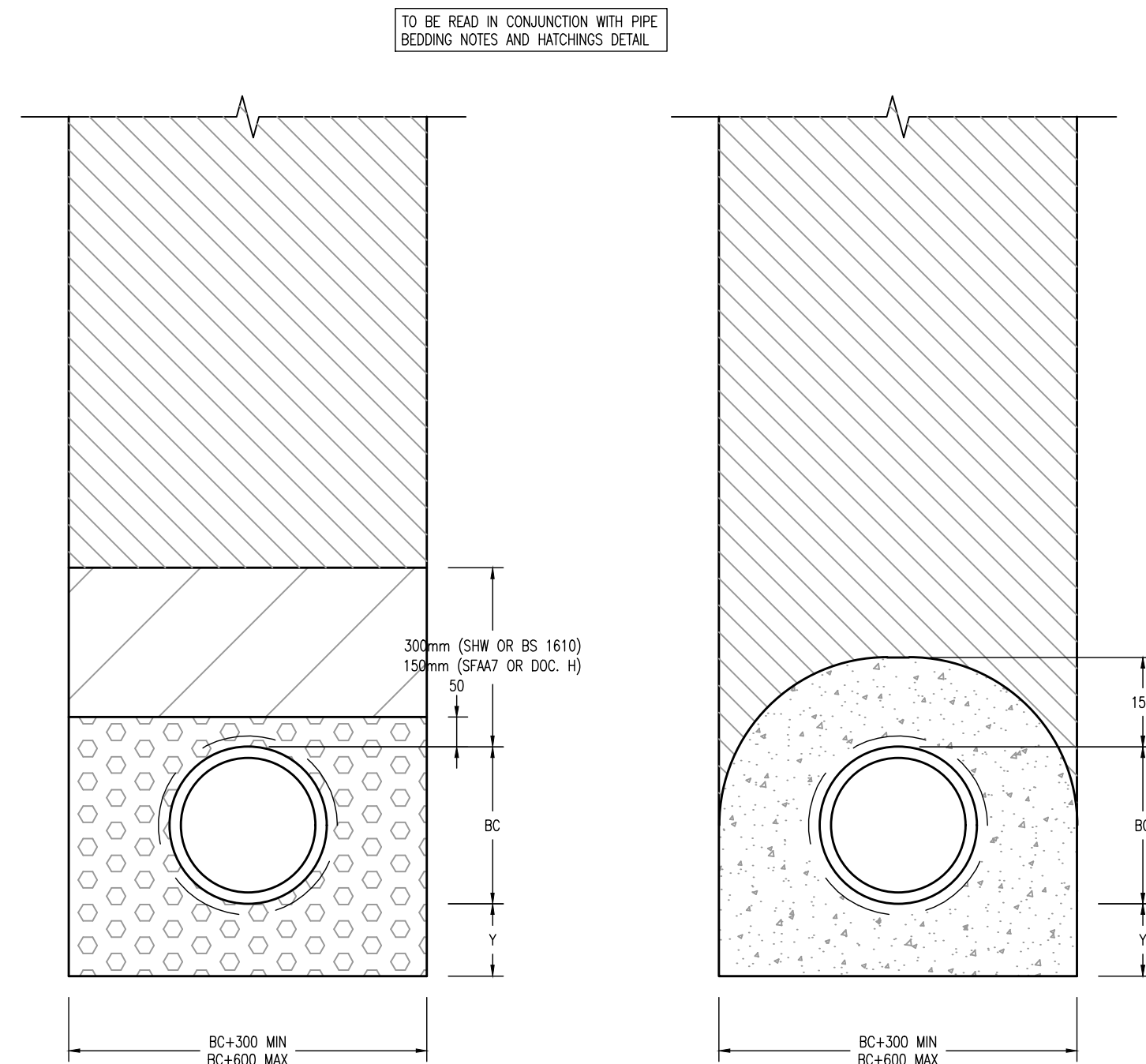
PIPES BUILT INTO A STRUCTURE OR CHAMBER
SHOULD HAVE A FLEXIBLE JOINT AS CLOSE AS
FEASIBLE TO THE EXTERNAL FACE OF THE
STRUCTURE AND THE LENGTH OF THE NEXT ROCKER
PIPE SHOULD BE AS SHOWN ABOVE



SVP CONNECTION
1:20 SCALE



TYPICAL POLYPROPYLENE INSPECTION CHAMBER
DETAIL SAT ON RECESS IN GROUND FLOOR SLAB
(NOT TO SCALE)



PIPE BEDDING HATCHINGS			
HATCH	SPECIFICATION FOR HIGHWAY WORKS (SHW)	SEWERS FOR ADOPTION 7th EDITION (SFA7)	NON-ADOPTABLE WORKS (DOC. H)
	TRENCH BACKFILL TO SHW CL. 505	20-200mm UNIFORM GRADED MATERIAL TO SFA7 CL. E.3.4*	SELECTED FILL OR GRANULAR FILL FREE FROM STONES > 40mm
	CLASS 8 MATERIAL TO SHW CL. 503.3 (iv)	SELECTED BACKFILL MATERIAL IN ACCORDANCE WITH SFA7 CL. E.3.4*	SELECTED FILL FREE FROM STONES > 40mm, LUMPS OF CLAY > 100mm, TIMBER, FROZEN MATERIAL OR VEGETABLE MATTER
	CONCRETE TO SHW CL. 503.3 (iii)	GEN3 (C16/C20) CONCRETE TO SFA7 CL. E.5.3	ST4 CONCRETE TO BS 8500-2
	GRANULAR MATERIAL TO SHW CL. 503.3 (i)	GRANULAR OR AS-DUG MATERIAL TO WS 4-08-02 – REFER TO TABLE BELOW	GRANULAR OR AS-DUG MATERIAL TO BS EN 1295-1 – REFER TO TABLE BELOW
	TYPE B FILTER MEDIA TO SHW CL. 505	N/A	20/40mm SIZE CLEAN GRANULAR MATERIAL
	TYPE A OR C FILTER MATERIAL TO SHW CL. 505 OR GRANULAR MATERIAL TO SHW CL. 503.3 (i)	N/A	0/20mm SIZE CLEAN GRANULAR MATERIAL
	TURF OR SEED ON TOPSOIL AS DESCRIBED IN SHW APPENDIX 5/1	N/A	TURF OR SEED ON TOPSOIL AS PER LANDSCAPE ARCHITECT'S SPECIFICATION
	GRANULAR MATERIAL TO SHW CL. 503.3 (i) e.g. SAND	N/A	0-4mm FINE AGGREGATE OR SHARP SAND

*"BC" REFERS TO PIPE OUTER BARREL
DIAMETER, EXCLUDING SOCKET SECTIONS

*WHERE SFA7 SEWERS ARE LOCATED INSIDE OR WITHIN 1m OF
ADOPTED CARRIAGEWAYS (FUTURE OR EXISTING), BACKFILL AND
REINSTATEMENT SHALL BE IN ACCORDANCE WITH THE RELEVANT
HIGHWAY REINSTATEMENT SPECIFICATION.

DIMENSION Y

CLASS	MACHINE DUG UNIFORM SOIL	ROCK OR MIXED SOILS
N.F.B. & S	NOTE (i)	NOTE (ii)
A & Z	NOTE (i)	NOTE (ii)

(i) Y=BC/6, WITH MIN 100mm UNDER BARRELS (50mm IF SLEEVE
JOINTED) AND MIN 50mm UNDER SOCKETS, WHICHEVER IS THE
GREATER

(ii) Y=BC/4, WITH MIN 200 UNDER BARRELS (150 FOR SLEEVE
JOINTED) AND MIN 150 UNDER SOCKETS, WHICHEVER IS THE
GREATER

NOMINAL BORE OF PIPE	SIZE (mm)	
	SINGLE SIZE	GRADED
100-125	10	–
150-200	10 OR 14	14 TO 5
225-300	10, 14 OR 20	14 TO 5
		OR
		20 TO 5
375-500	14 OR 20	14 TO 5
		OR
		20 TO 5
EXCEEDING 500	14, 20 OR 40	14 TO 5
		20 TO 5
		OR
		40 TO 5

TABLE: SIZE OF GRANULAR MATERIAL FOR PIPE BEDDING
COMPLIES WITH: EN 4-11-02, BS 4-08-02, BS EN
1610 AND THE TBRL DOCUMENT "STRUCTURAL DESIGN OF
BURIED RIGID PIPES", 1983, REFERRED BY BS 1295-1.

C01	05/08/2022	DR	FOR CONSTRUCTION APPROVAL	SM	SM
P02	19/07/2022	DR	ADDITIONAL DETAILS ADDED (PPIC, ACO)	SM	SM
P01	10/12/2021	JTB	FIRST ISSUE	SM	SM
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS:
S4 - FOR CONSTRUCTION APPROVAL

wsp

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wsp.com

CLIENT:
ROBERTSON GROUP LTD

ARCHITECT:
JMA

SITE/PROJECT:
HOME RAILWAY ARCHES

TITLE:
STANDARD DETAILS:
PROPOSED FOUL WATER CONNECTIONS

SCALE @ A1: AS SHOWN	CHECKED: SM	APPROVED: SM
PROJECT NO: 70082168	DESIGNED: JB	DRAWN: JB
	DATE: August 22	

DRAWING NO:
HAP-WSP-B01-00-DE-C-0001

REV:
C01