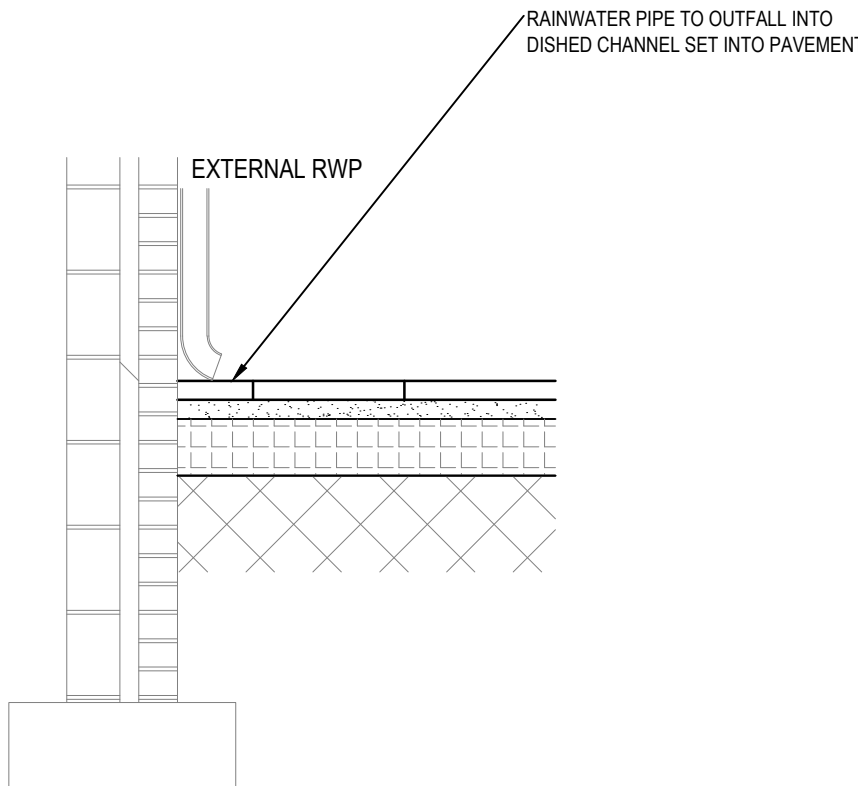


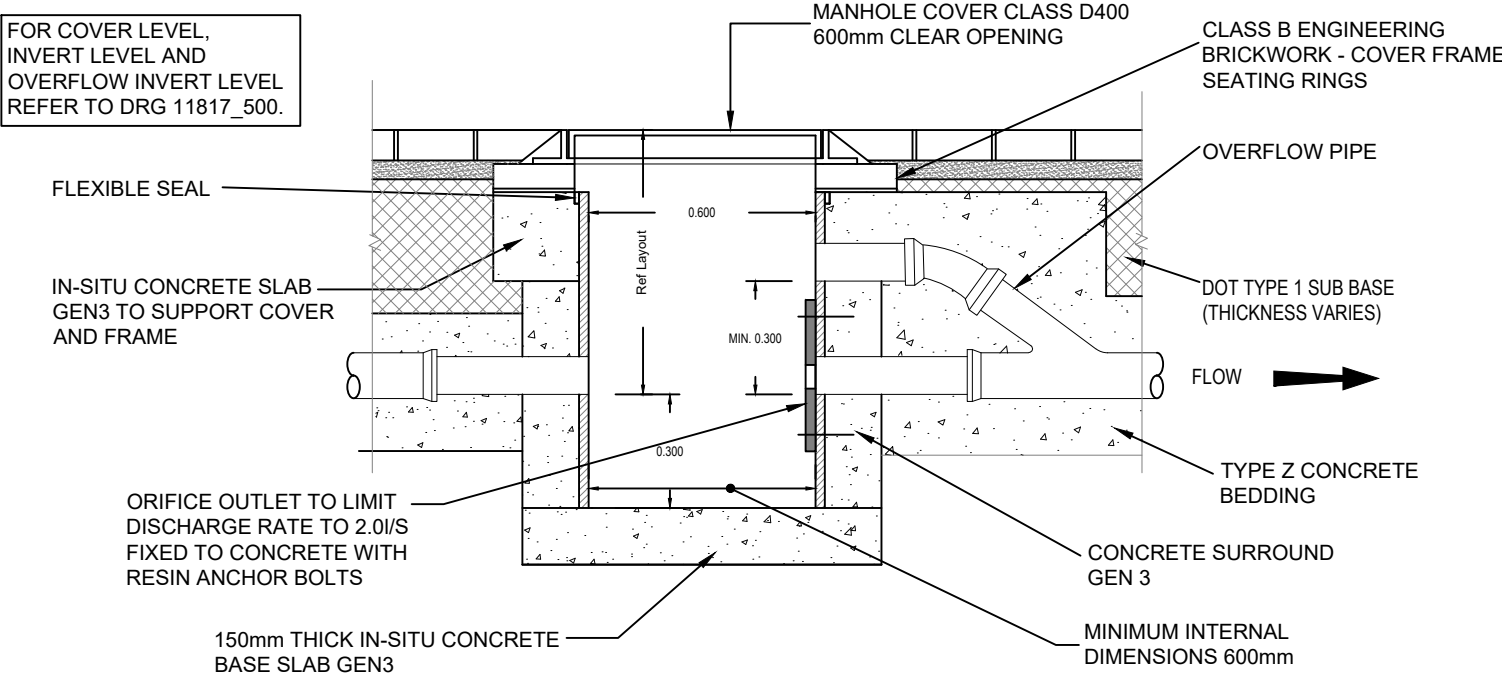
TYPICAL CHANNEL DRAIN DETAIL

SCALE 1:20



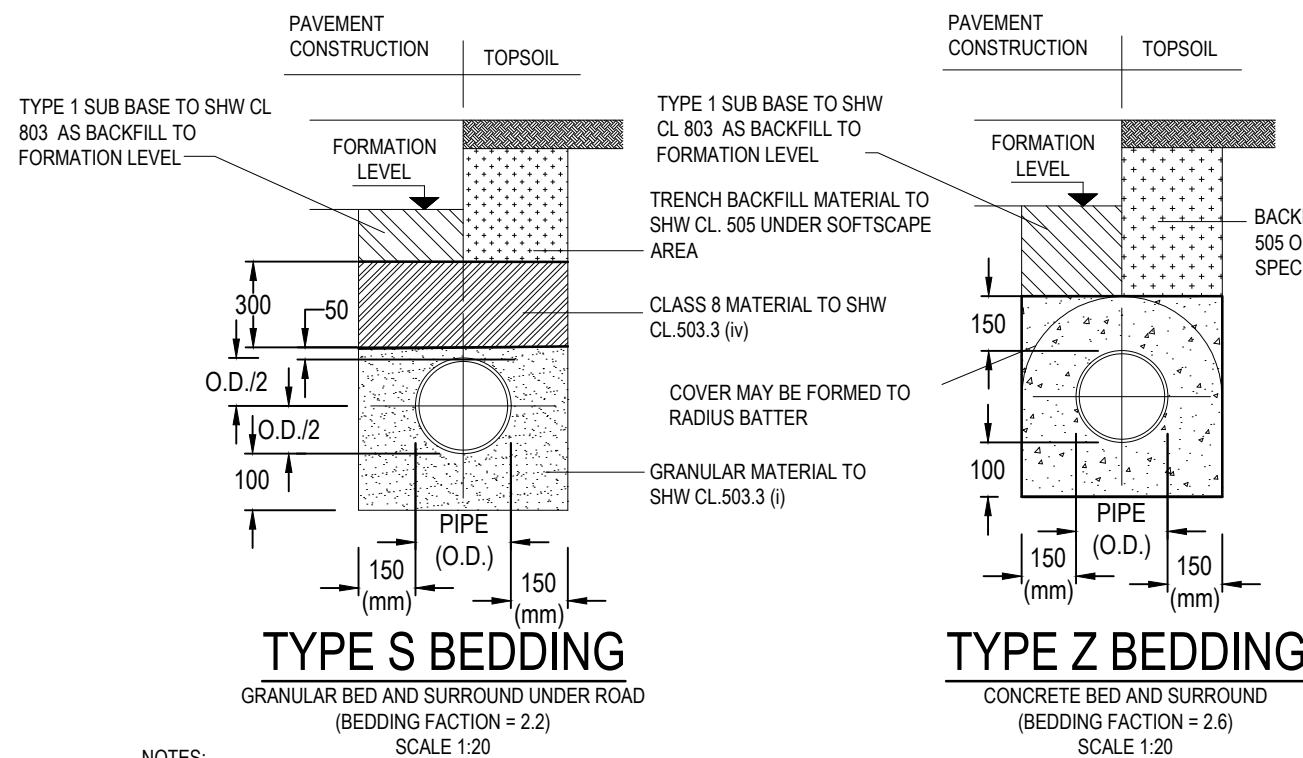
RWP TO DISH CHANNEL DETAIL

SCALE 1:20

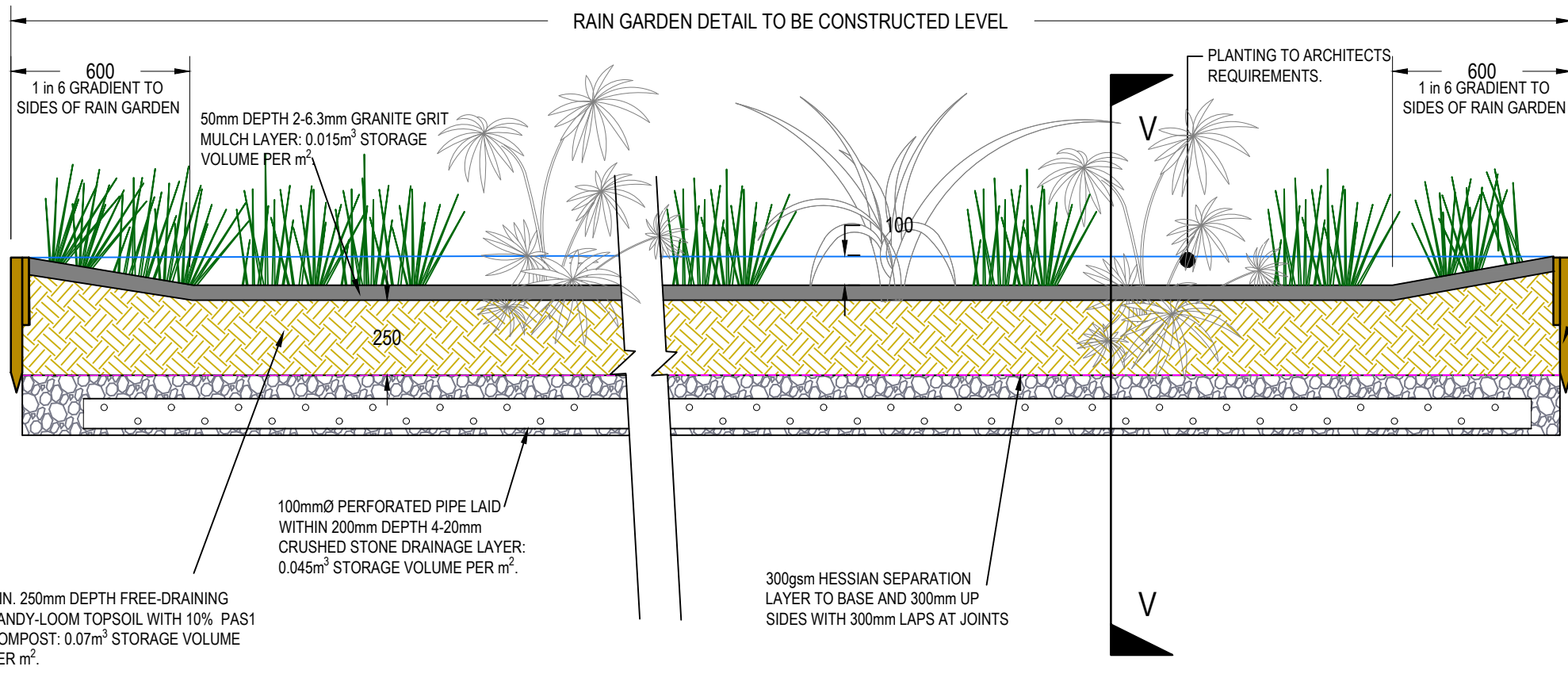


FLOW CONTROL CHAMBER

SCALE 1:20

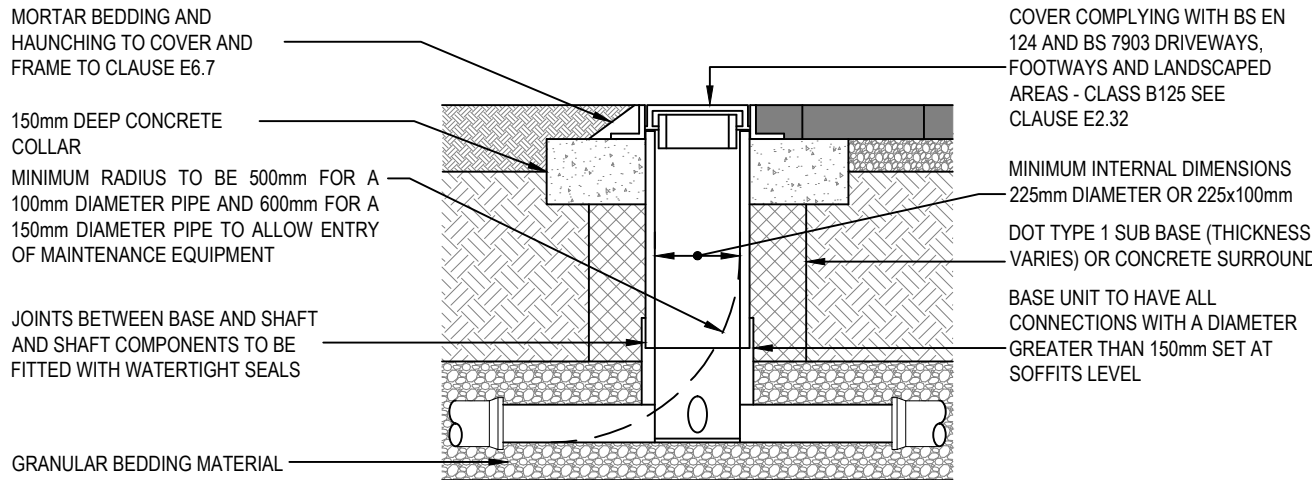


BEDDING DETAILS



STANDARD LONGSECTION OF A RAINGARDEN

SCALE 1:20

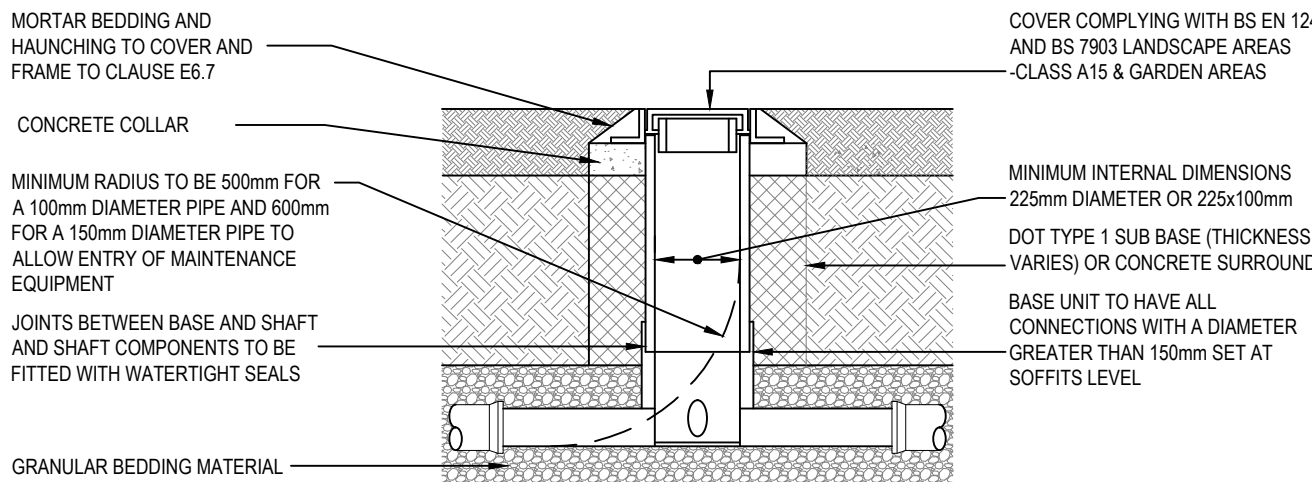


TYPICAL INSPECTION CHAMBER DETAIL - TYPE 4A
WITHIN PAVED AREAS

(REFER TO FIG. B.21 OF SEWERS FOR ADOPTION 7th ED) - SITED IN DRIVEWAYS/PAVED AREAS

(FLEXIBLE MATERIAL DETAIL)

SCALE 1:20



TYPICAL INSPECTION CHAMBER DETAIL - TYPE 4B
WITHIN LANDSCAPE AREAS

(REFER TO FIG. B.21 OF SEWERS FOR ADOPTION 7th ED) SITED IN DOMESTIC GARDENS

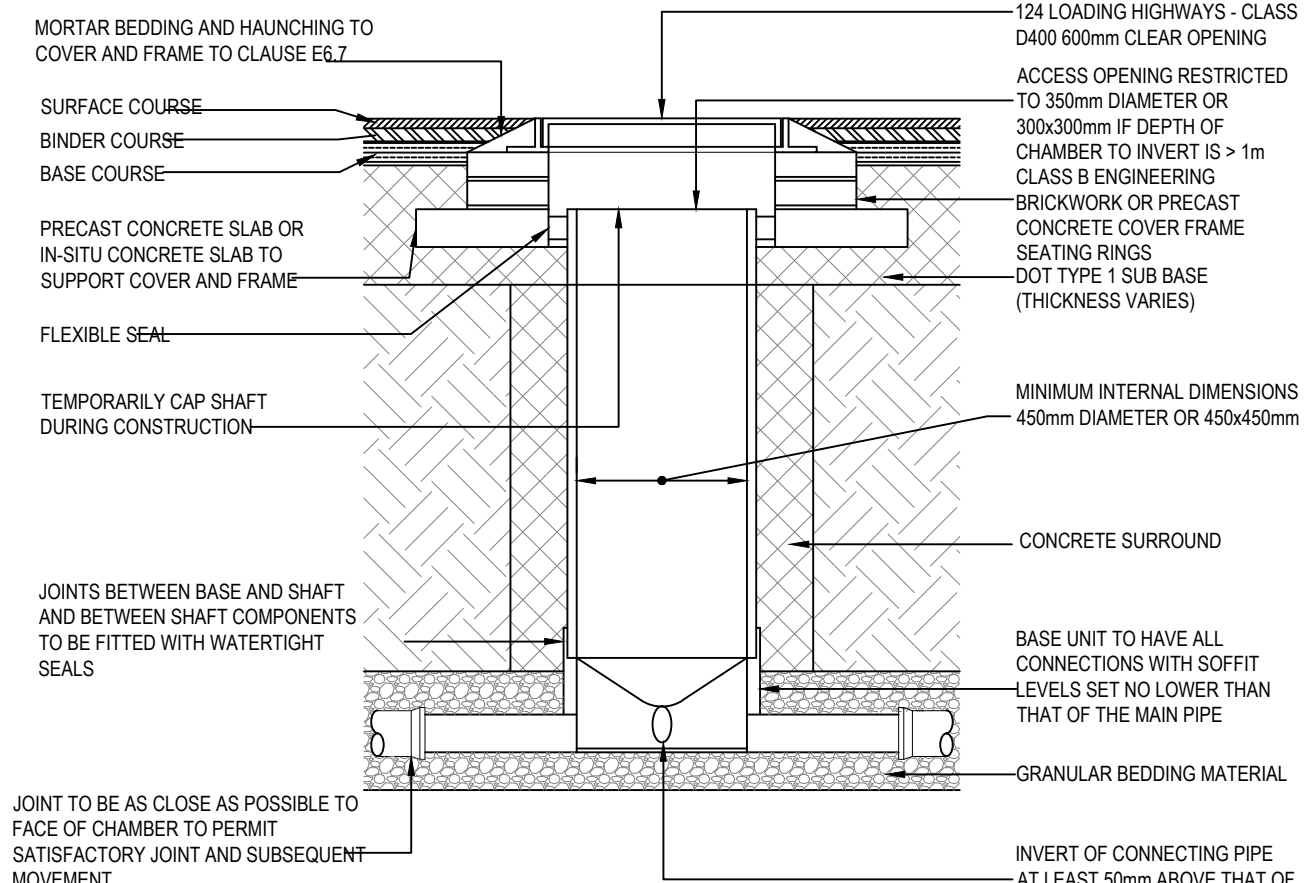
(FLEXIBLE MATERIAL DETAIL)

SCALE 1:20

PIPE DIA.	ROCKER PIPE LENGTH
150 - 600	0.60m
675 - 750	1.00m
OVER 750	1.25m

ROCKER PIPE DETAILS

MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 2m, NON-ENTRY.
PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL

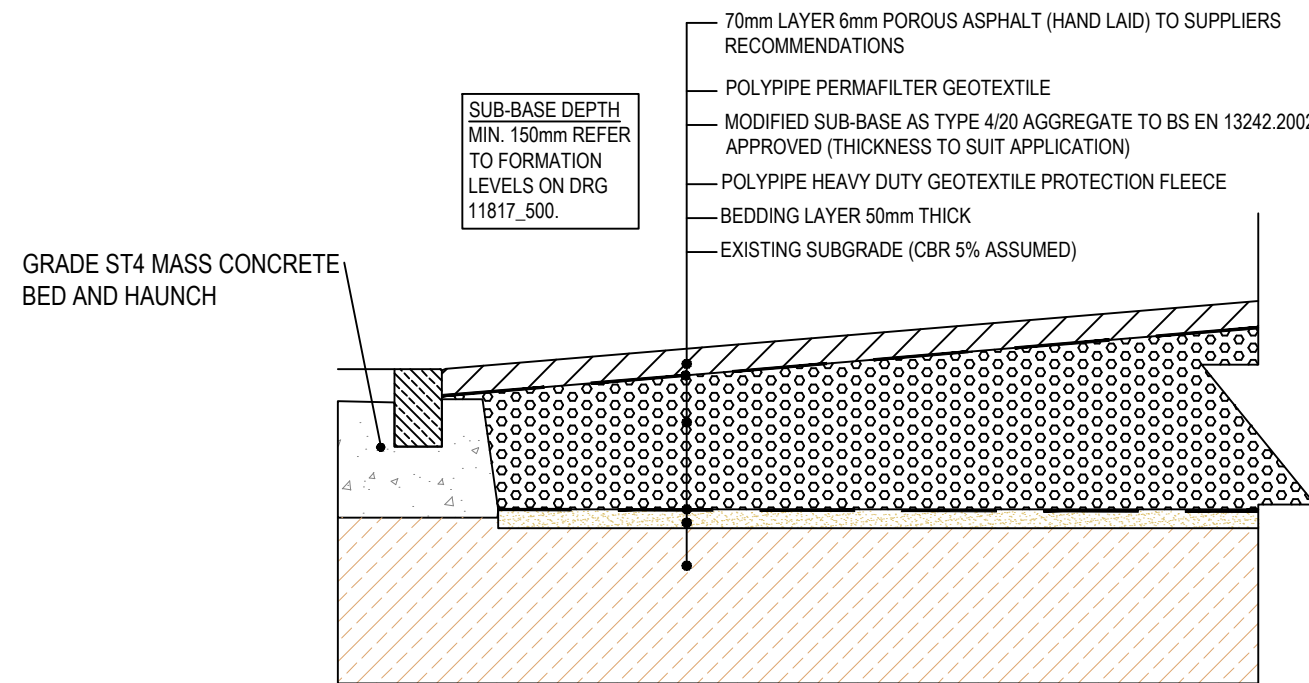


TYPICAL INSPECTION CHAMBER
DETAIL - TYPE 3

(REFER TO FIG. B.16 OF SEWERS FOR ADOPTION 7th ED)

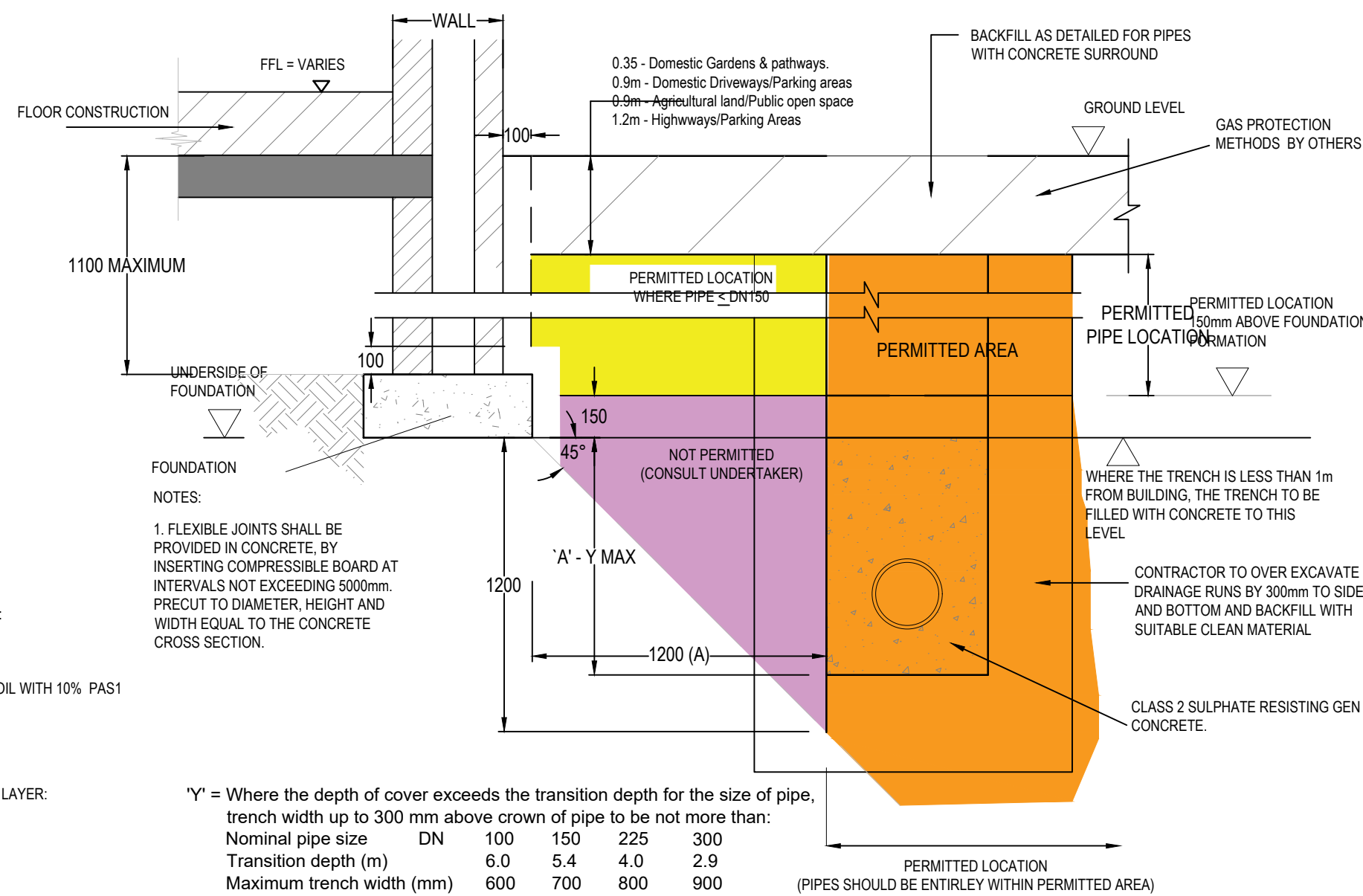
(DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3m)

(FLEXIBLE MATERIAL DETAIL)



POROUS ASPHALT PAVING DETAIL
WITH CGA SUB-BASE

SCALE 1:20

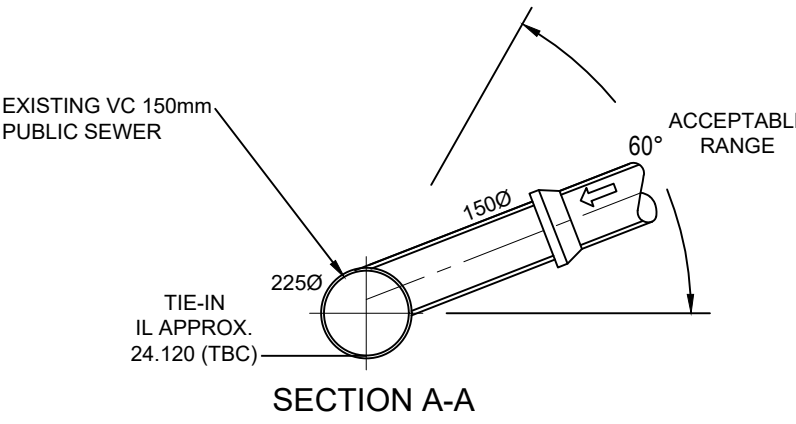


TYPICAL DRAINAGE DETAIL IN CLOSE
PROXIMITY OF FOUNDATIONS

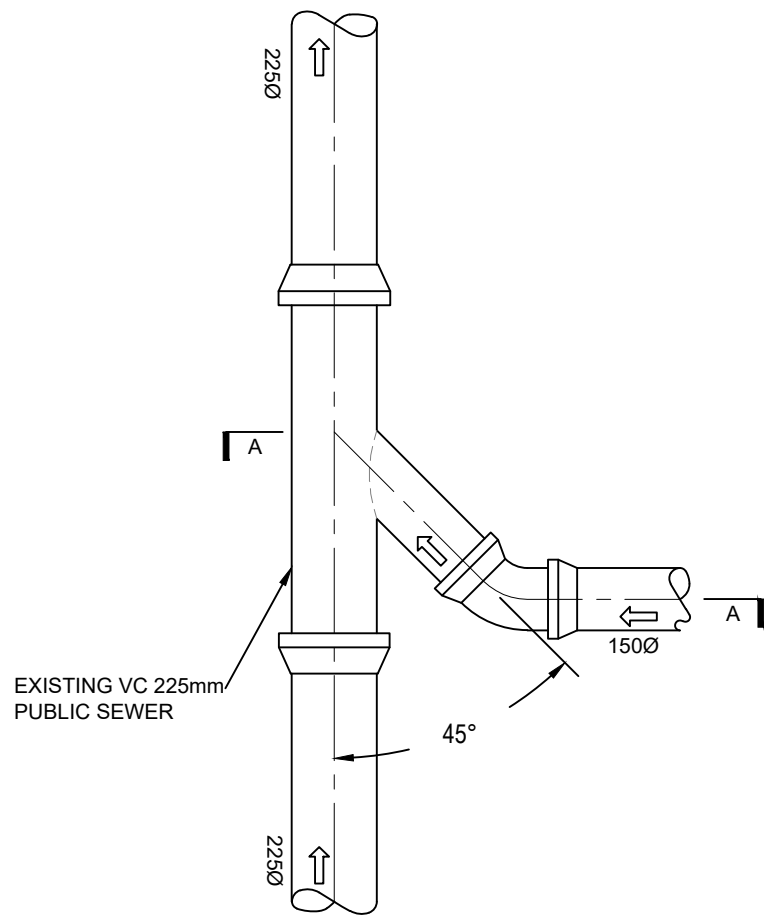
Y' = Where the depth of cover exceeds the transition depth for the size of pipe, trench width up to 300 mm above crown of pipe to be not more than:

Nominal pipe size	DN	100	150	225	300
Transition depth (m)		6.0	5.4	4.0	2.9
Maximum trench width (mm)		600	700	800	900

(PIPES SHOULD BE ENTIRELY WITHIN PERMITTED AREA)

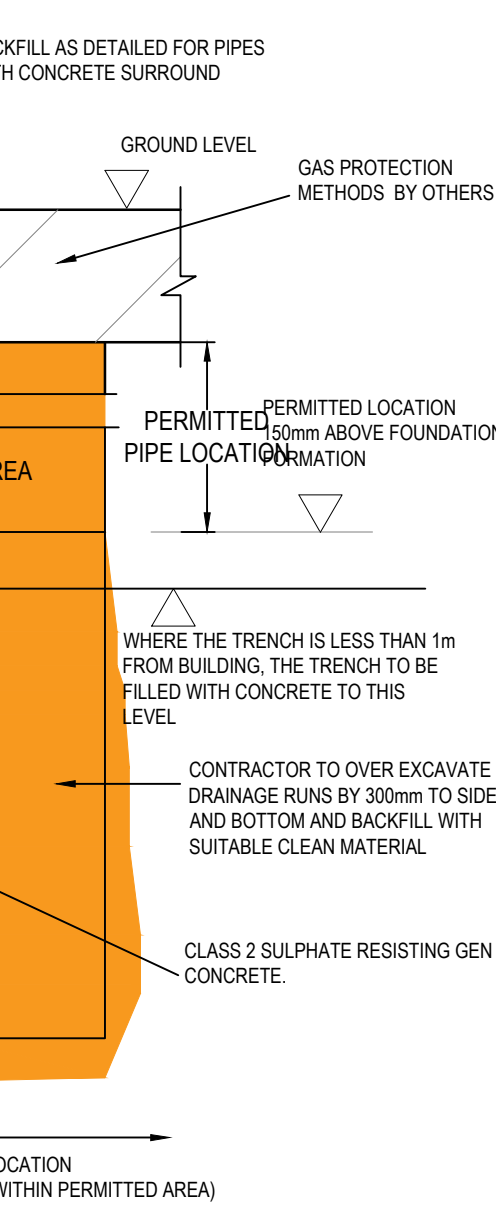


Scale 1:20



PREFORMED 'Y' BRANCH
CONNECTION
TIE-IN DETAIL

Scale 1:20



(PIPES SHOULD BE ENTIRELY WITHIN PERMITTED AREA)

NOTES:

- MH COVERS AND FRAMES TO CONFORM TO BS EN 124:
 - HIGHWAYS AND PUBLIC CAR PARKS (D400)
 - LIGHTLY TRAFFICKED ROADS AND PRIVATE CAR PARKS (C250)
 - DOMESTIC DRIVEWAYS (B125)
- TYPE S BEDDING AND SURROUND TO ALL PIPES EXCEPT IN THE FOLLOWING CIRCUMSTANCES, IN WHICH TYPE Z BEDDING AND SURROUND ARE TO BE USED:
 - DOMESTIC GARDENS AND PATHWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS, 0.35m;
 - DOMESTIC DRIVEWAYS, PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 0.5m;
 - DOMESTIC DRIVEWAYS, PARKING AREAS AND NARROW STREETS WITHOUT FOOTWAYS (E.G., MEWS DEVELOPMENTS) WITH LIMITED ACCESS FOR VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 0.9m;
 - AGRICULTURAL LAND AND PUBLIC OPEN SPACE, 0.9m;
 - OTHER HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 1.2m.
- ALL EXISTING MANHOLE INVERTS TO BE CHECKED AND REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF DRAINAGE WORKS. EXISTING PIPE CONNECTIONS ARE TO BE CCTV SURVEYED AND INSPECTED. IF THE PIPE CONNECTION IS FOUND TO BE DAMAGED OR IN DISTRESS, THE CONTRACTOR IS TO CARRY OUT REMEDIAL WORKS OR PROVIDE A NEW CONNECTION TO THE EXISTING SEWER (PIPE SIZE AND GRADIENT TO BE DETERMINED BY THE ENGINEER).
- THE CONTRACTOR SHALL INSTALL DRAINS TO THE INVERT LEVELS SHOWN FOR EACH MANHOLE OR OTHER INDICATED POSITION.
- ALL FOUL DRAINAGE TO BE MINIMUM 100mm DIAMETER AND LAID TO THE INVERT LEVELS SHOWN OR A MINIMUM 1 IN 100 FALL, UNLESS OTHERWISE NOTED.
- ALL STORM WATER DRAINAGE TO BE A MINIMUM OF 150mm DIAMETER AND LAID TO THE INVERT LEVELS SHOWN OR A MINIMUM 1 IN 150 FALL, UNLESS OTHERWISE NOTED.
- ALL ADAPTABLE THERMOPLASTIC STRUCTURED WALL SEWER PIPE SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 13476-1 AND WIS 4-35-01 AND BS EN 13476-2 OR BS EN 13476-3. PIPES SHALL BE BSI KITEMARKED OR HAVE EQUIVALENT THIRD PARTY CERTIFICATION. PIPES LESS THAN OR EQUAL TO 500mm DIA. SHALL HAVE A SHORT-TERM RING STIFFNESS OF NOT LESS THAN 8kN/m² (SN8).
- ALL JOINTING IN ACCORDANCE WITH MANUFACTURERS TECHNICAL ADVICE & SPECIFICATION.
- ALL NON ADAPTABLE DRAINAGE TO BE THE STANDARD UPVC 110mm, 160mm DRAINAGE AND MANUFACTURED TO BS-EN 1401 AND BS 4660 UNLESS NOTED OTHERWISE.
- SOIL & VENT PIPE LOCATION AND NUMBER TO BE CONFIRMED WITH ARCHITECT.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS, TOGETHER WITH THEIR LATEST SPECIFICATIONS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AS SOON AS POSSIBLE.
- FIGURED DIMENSIONS ONLY TO BE USED. ANY QUERIES OR DISCREPANCIES TO BE REFERRED TO THE ENGINEER.
- PRIOR TO ORDERING ANY MATERIALS THE CONTRACTOR IS TO CONFIRM MANUFACTURER/PIPE MATERIAL AND GRADE PROPOSED WITH WATER AUTHORITY.
- DESIGN RISK ASSESSMENTS AND METHOD STATEMENTS ARE TO BE PROVIDED TO THE PRINCIPLE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY WORKS.

rev.	drawn	checked	approved	date	description
01	FP	MJ	MJ	11.01.21	Issue for SAB approval
Client LEE PICKETT					
Project 6 CRICCIETH GROVE, MERTHYR TYDFIL, CF48 1JY					
Title DRAINAGE DETAILS					
date 11.01.21					
scale @ A1 AS SHOWN					
status A					
drg. no. 11817_501					
rev. 01					