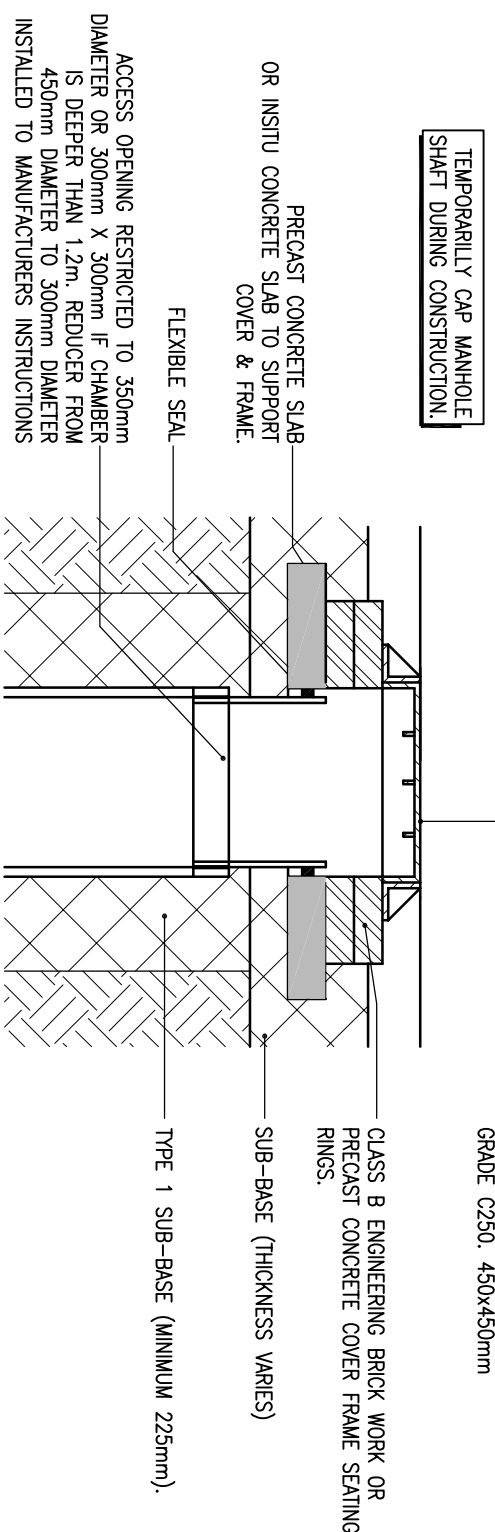
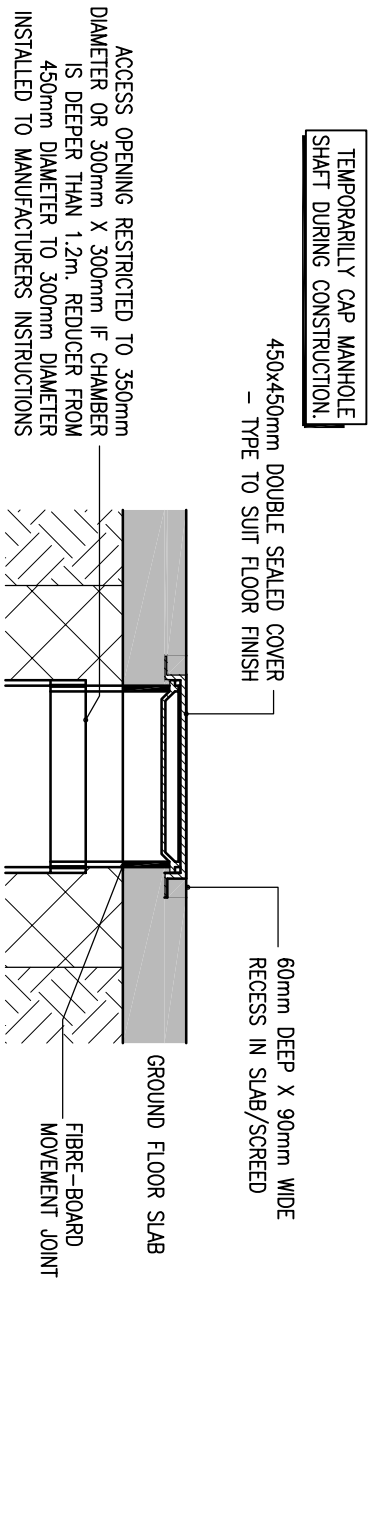


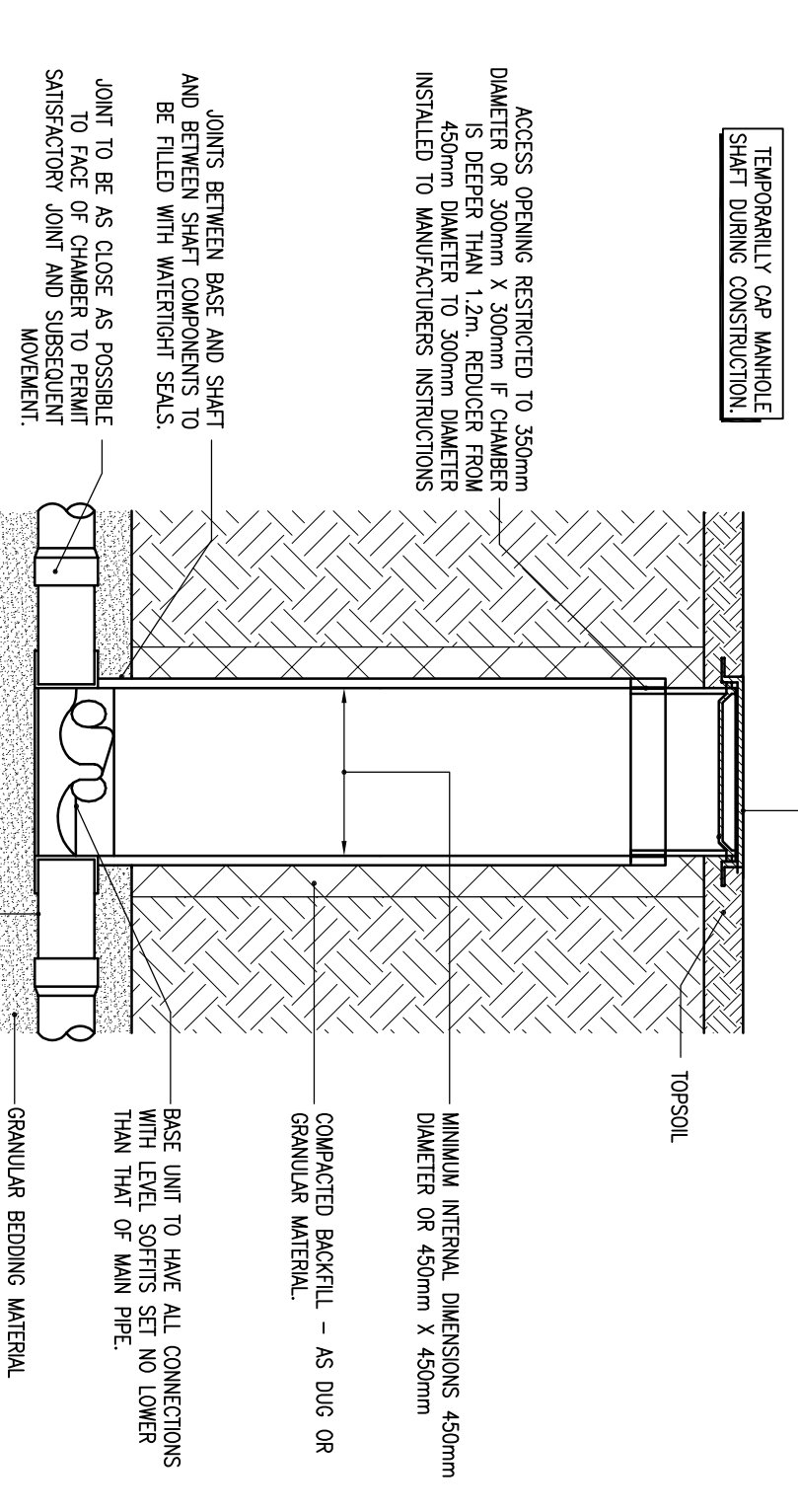
SITED IN DOMESTIC DRIVEWAYS/PAVED AREAS



SITED IN BUILDINGS

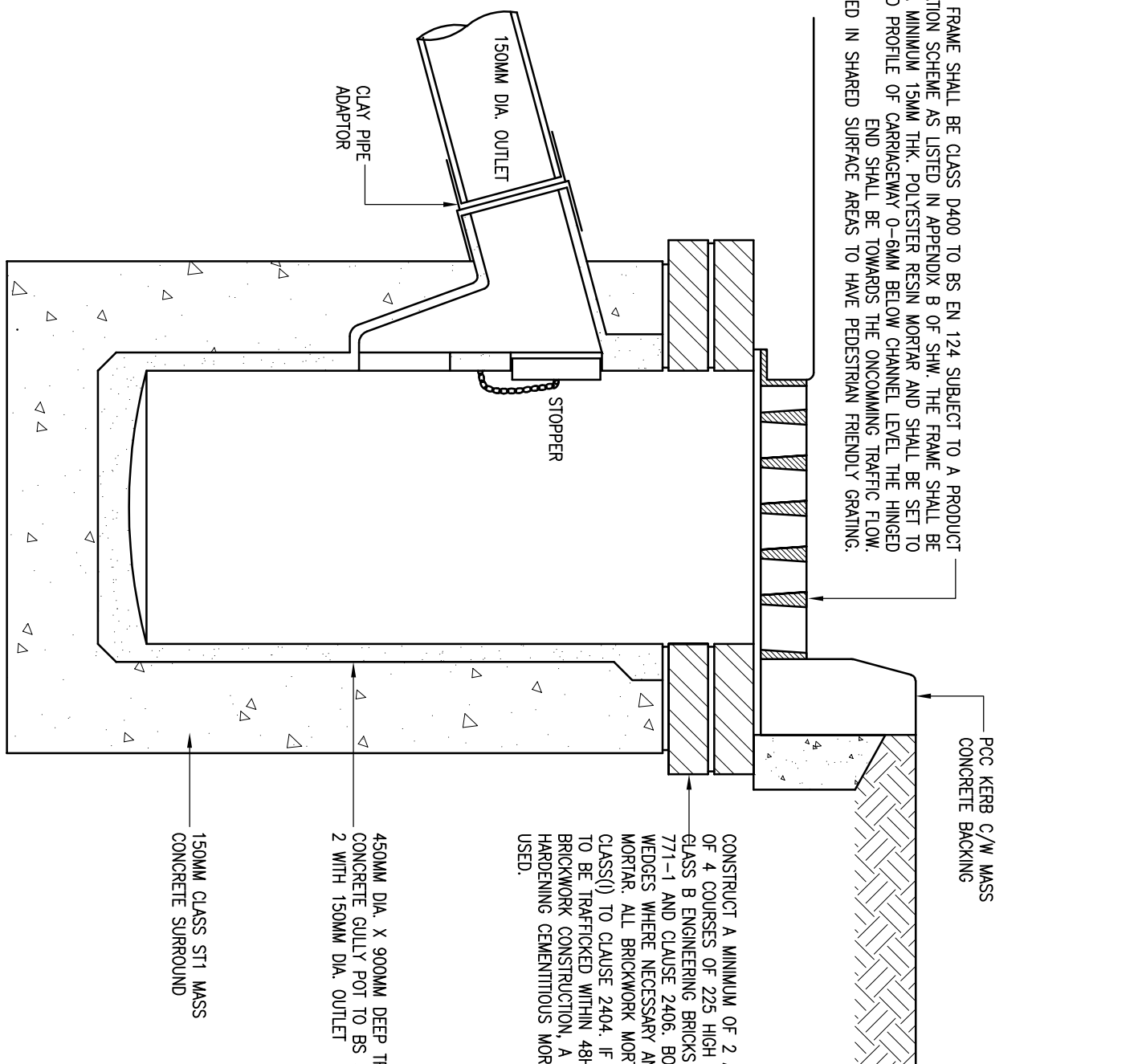


SITED IN SOFT LANDSCAPED AREAS



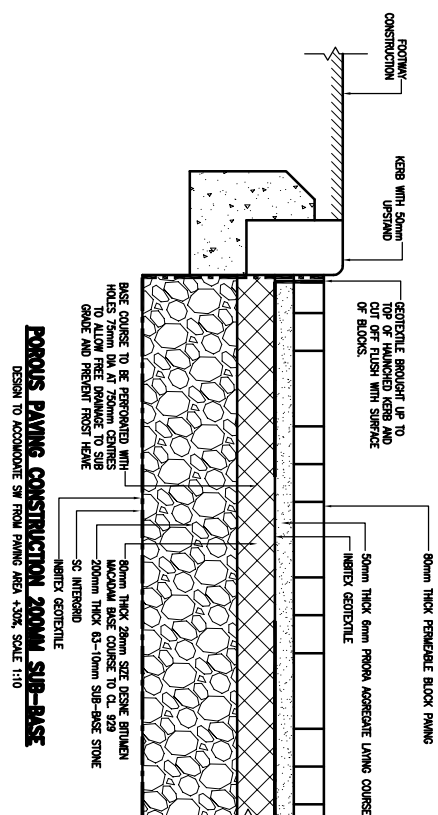
PLASTIC INSPECTION CHAMBER

NOTE:
1. ANY INSPECTION CHAMBER WITH A DEPTH EXCEEDING 12m THE INSPECTION COVER MUST REDUCE TO 350mm OR AS DETAIL ABOVE.
2. PLASTIC INSPECTION CHAMBER AS SPECIFIED BY COWI/MANOR OR SIMILAR AND APPROVED.



P.C.C. ROAD GULLY DETAIL

NOTE:
1. GUTTINGS AND FRAMES SHALL BE OF DUCTILE IRON AND COMPLY WITH THE REQUIREMENTS OF BS EN 124, CLASS D400. THEY SHALL BE KITE-MARKED OR AN APPROVED EQUIVALENT. PROTECTION SHALL BE BY BRIDLEWATER COATING OR BY AN EQUIVALENT APPROVED METHOD. GUTTINGS SHALL BE OF THE CAPTIVE-CHARGE, NON-ROCKING TYPE WITH MINIMUM DIMENSIONS OF 300mm x 300mm. FRAMES SHALL BE PLACED ON 3 SIZES OF CARBON STEEL PLATE, 20mm, 25mm AND 30mm THICK. THE PLATE SHALL BE SET TO THE CROSSFALL OF THE CARBONWAY WITH THE TOP SURFACE 6mm BELOW FINISHED ROAD LEVEL.

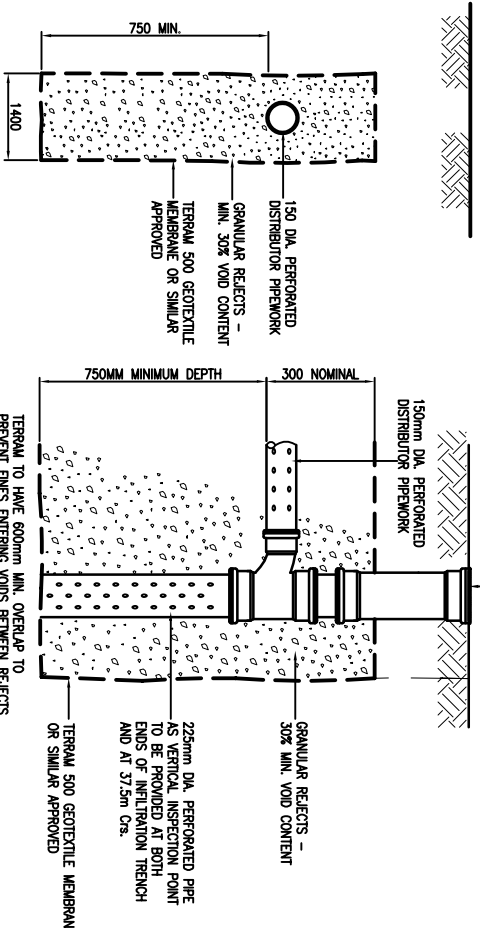


NOTES

- 1) FOR PIPES EXCEEDING 600 mm DIA REFER TO ENGINEER
- 2) IN WET OR SOFT GROUND SEEK GUIDANCE FROM ENGINEER
- 3)THE BEDDINGS MAY BE ADAPTED FOR CERTAIN SUB-SOIL CONDITIONS AT THE ENGINEERS DISCRETION
- 4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL PROTECTION IN AREAS SUBJECT TO SHALLOW TREE ROOTS AND RESTRICTED TRAFFIC ELSEWHERE
- 5) SEE ALSO BS 5301
- 6) FOR GREATER TRENCH WIDTHS SEEK GUIDANCE FROM ENGINEER

DRAIN BEDDING DETAIL

DIMENSION Y = IN ROCK, CONCRETE OR LAYER SOILS CONTAINING ROCK FRAGMENTS, Boulders, LARGE FLINTS OR STONES OR OTHER IRREGULAR HARD SPOTS THAT RESULT IN UNEVEN TRENCH BOTTOM Y = 1/4 BE OR 200 mm WHICH EVER IS THE GREATER, BUT NOT LESS THAN 50mm UNDER COLLARS IN SOILS THAT REMAIN AN EVEN TRENCH BOTTOM TO BE EXCAVATED Y = 1/8 BE OR 150 mm WHICH EVER IS THE GREATER, BUT NOT LESS THAN 50 mm UNDER COLLARS

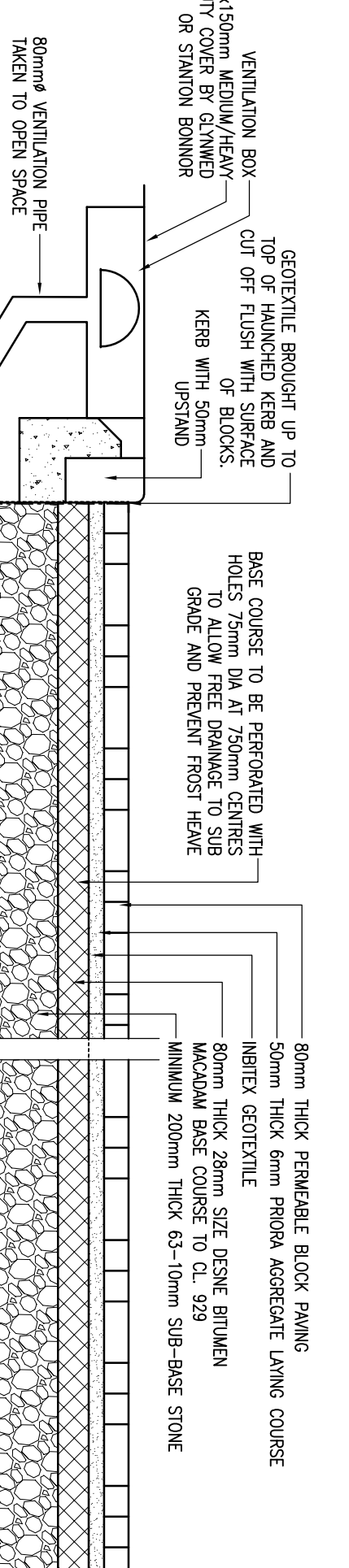


ROAD INFILTRATION DETAIL

NOTE:
1. ANY INSPECTION CHAMBER WITH A DEPTH EXCEEDING 12m THE INSPECTION COVER MUST REDUCE TO 350mm OR AS DETAIL ABOVE.
2. PLASTIC INSPECTION CHAMBER AS SPECIFIED BY COWI/MANOR OR SIMILAR AND APPROVED.

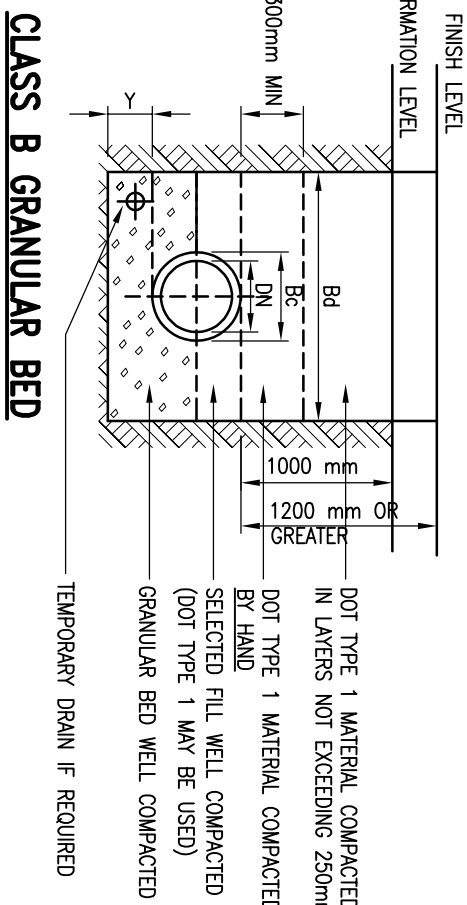
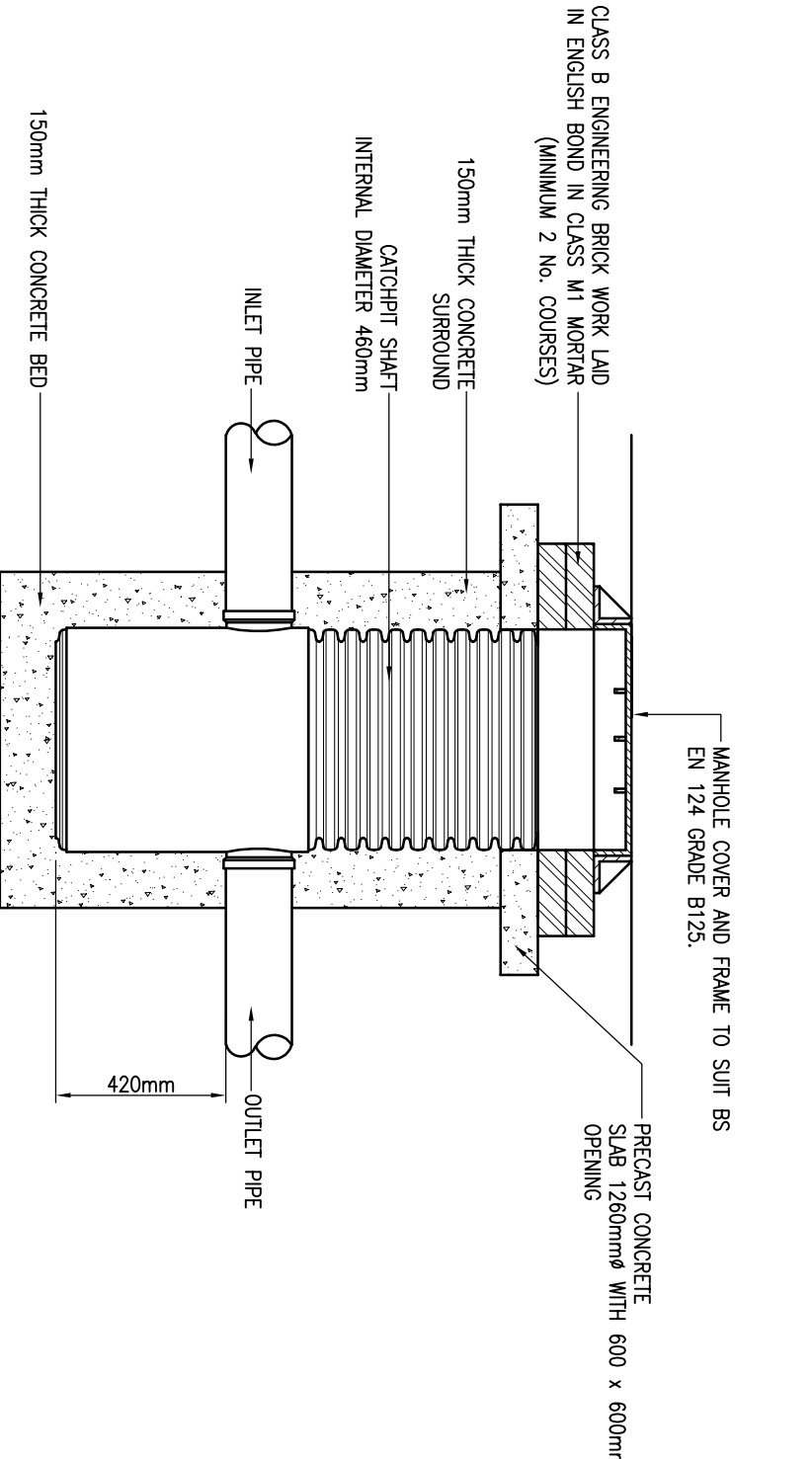
ROAD INFILTRATION DETAIL - INSPECTION POINT DETAIL

IMPORTANT NOTE

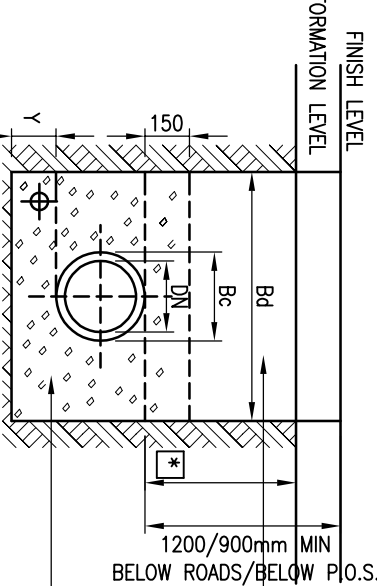


POROUS PAVING ROAD CONSTRUCTION OVER AQUACELL STORAGE UNIT

NOT TO SCALE

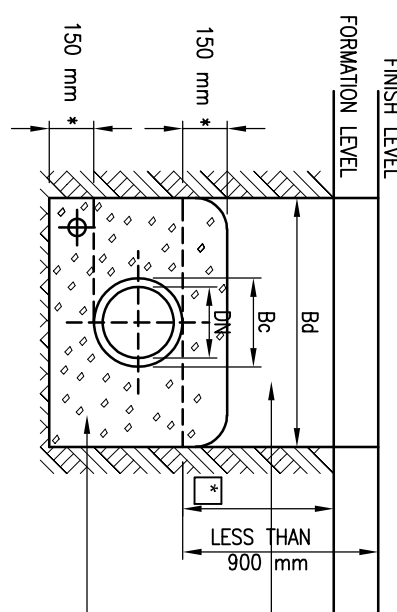


NOMINAL INTERNAL DIA. (mm)	ASSUMED MAX. PERMISSIBLE BD. (mm)	DIMENSION 'Y' FOR UNIFORM SOILS (mm)
100	130	100
150	190	100
225	280	100
300	380	100
375	500	125
450	600	125
525	670	125
600	770	125



PIPE SIZE	AGGREGATE
100 mm	10 mm SINGLE SIZE
150 mm	10 OR 14mm SINGLE SIZE OR 14-15 mm GRADED
150 mm--500 mm	10,14,20 SINGLE SIZE OR 20-25 mm GRADED
600 mm	10,14,20 OR 40 mm SINGLE CRUSHED ROCK OR 40-45 mm GRADED

CLASS Z CONCRETE BED & SURROUND (C.B.S.)



NOTES

- 1 THIS DRAWING IS COPYRIGHT.
- 2 THE CONTRACTOR AND HIS SUBCONTRACTOR ARE TO VERIFY ALL DIMENSIONS TO MANHOLE SHIP DRAWINGS OR COMMERCIAL MANUFACTURE.
- 3 DO NOT SCALE THIS DRAWING. THE CONTRACTOR IS TO BRING TO THE NOTICE OF THE ENGINEER ANY DISCREPANCIES CONTAINED IN THIS DRAWING PRIOR TO WORK COMMENCEMENT.
- 4 ALL 150mm AND 225mm DIAMETER PIPES TO BE EXTRA STRENGTH VITRIFIED CLAY PIPES (SEE NOTE 15).
- 5 ALL PIPES OF 300mm DIAMETER OR GREATER TO BE CLASS M CONCRETE.
- 6 ALL PIPE MATERIALS TO BE CONSISTENT BETWEEN MANHOLES.
- 7 ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH EDITION, THE SPECIFICATION FOR HIGHWAY WORKS 1998 AND ALL SUBSEQUENT, AMENDMENTS AND LOCAL AUTHORITIES DESIGN GUIDE. WHERE THERE IS CONFLICT BETWEEN THESE DOCUMENTS THE MATTER SHALL BE REFERRED TO THE ENGINEER.
- 8 FOR CONSTRUCTION DETAILS OF MANHOLES AND SEWERS REFER TO SEWERS FOR ADOPTION AND UNDERGROUNDS STANDARD DETAILS WHICH CAN BE OBTAINED FROM THE LOCAL OFFICE.
- 9 INVERT LEVELS OF EXISTING SEWERS TO BE CONFIRMED ON SITE BEFORE ANY SEWER WORK UNDERGROUNDED. ANY DISCREPANCIES FOUND SHOULD BE NOTIFIED TO ENGINEERS.
- 10 WHERE SEWERS HAVE LESS THAN 1.2m OF COVER UNDER ROADS AND 0.9m COVER ELSEWHERE PIPES ARE TO HAVE A 150mm CONCRETE BED AND SURROUND.
- 11 PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVE BEEN MANUFACTURED IN ACCORDANCE WITH THE 11 OF REGULATIONS 2010.
- 12 WHERE HOUSE DRAINAGE IS TAKEN THROUGH BLOCK CARE IS TO BE TAKEN THAT FOUNDATION LEVELS AND DRAINAGE RUNS DO NOT CLASH.
- 13 ALL ADAPTABLE MANHOLES TO HAVE A MINIMUM CLEAR OPENING OF 675mmx75mm AND GRADE D400 UNO.
- 14 ALL BELOW GROUND DRAINAGE TO BE 100mm³ UNLESS OTHERWISE INDICATED WITH A MIN. GRADIENT AS FOLLOWS:-
S.W : 1:100mm Dia. 1:100
S.W : 150mm Dia. 1:150
F.W : 100mm Dia. 1:80
F.W : 150mm Dia. 1:150
- 15 ALL ADAPTABLE DRAINAGE MATERIALS SHOULD COMPLY WITH THE REQUIREMENTS OF PART E CIVIL ENGINEERING SPECIFICATION INCLUDED WITH SEWERS FOR ADOPTION 7TH EDITION WHICH IS DRAWN FROM REPRODUCTION.

HEALTH & SAFETY:

ALL WORKS TO BE CARRIED OUT BY A CONTRACTOR INDICATED ON THIS DRAWING. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE JOB SPECIFIC RISK ASSESSMENT. THE HAZARDS NOTED ARE IN ADDITION TO THE NORMAL HAZARDS AND RISKS FACED BY A COMPETENT CONTRACTOR WHEN DRAINING WITH THE TYPE OF WORKS DETAILED ON THIS DRAWING.

PLANNING

rev	date	description	initials
Project			
Client / Architect			
Allen Build			
Drainage Construction Details			

date	OCT 2018	scale	As Shown	size	A1	project no.	10379	drawing no.	P-251	revision	P2
drawn	PJ										
checked	RHB										

Project	Rusington Convalescent Homes
Client / Architect	Allen Build
Drainage Construction Details	

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