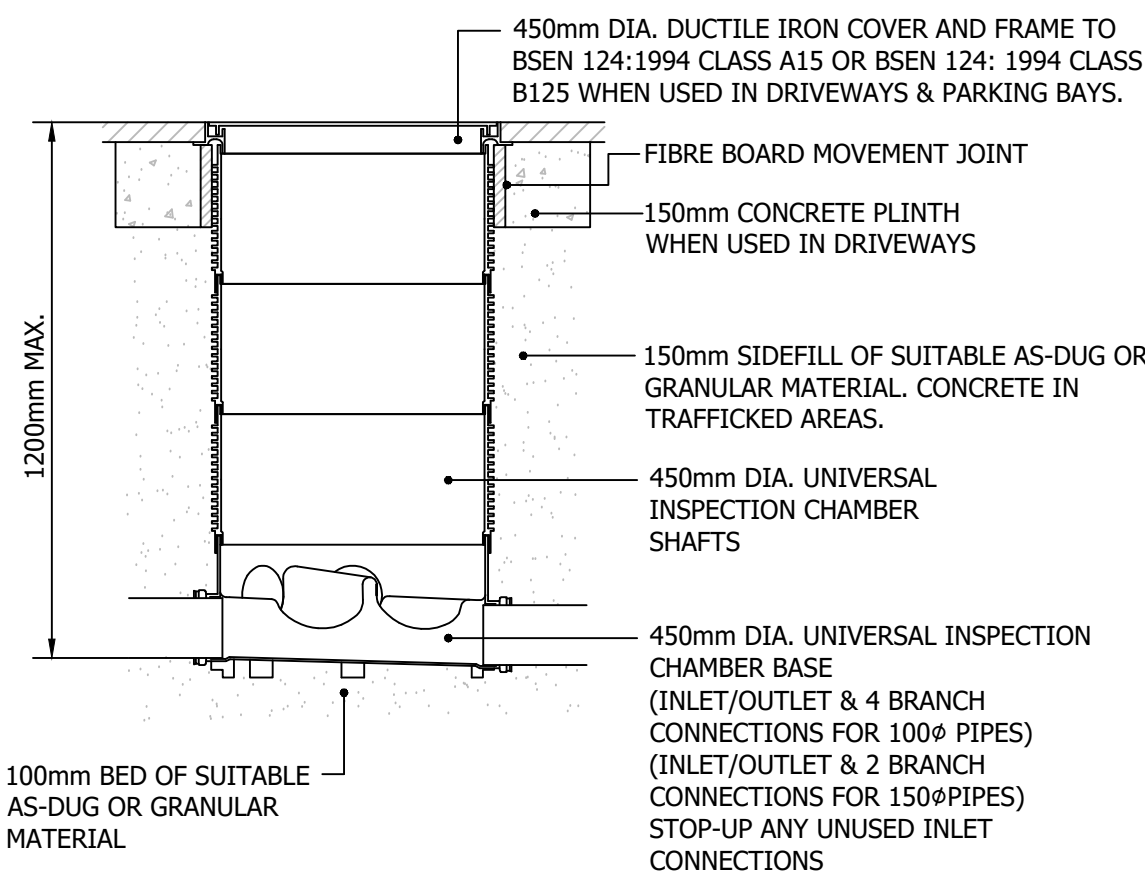
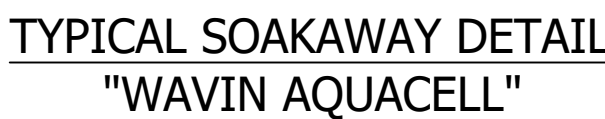


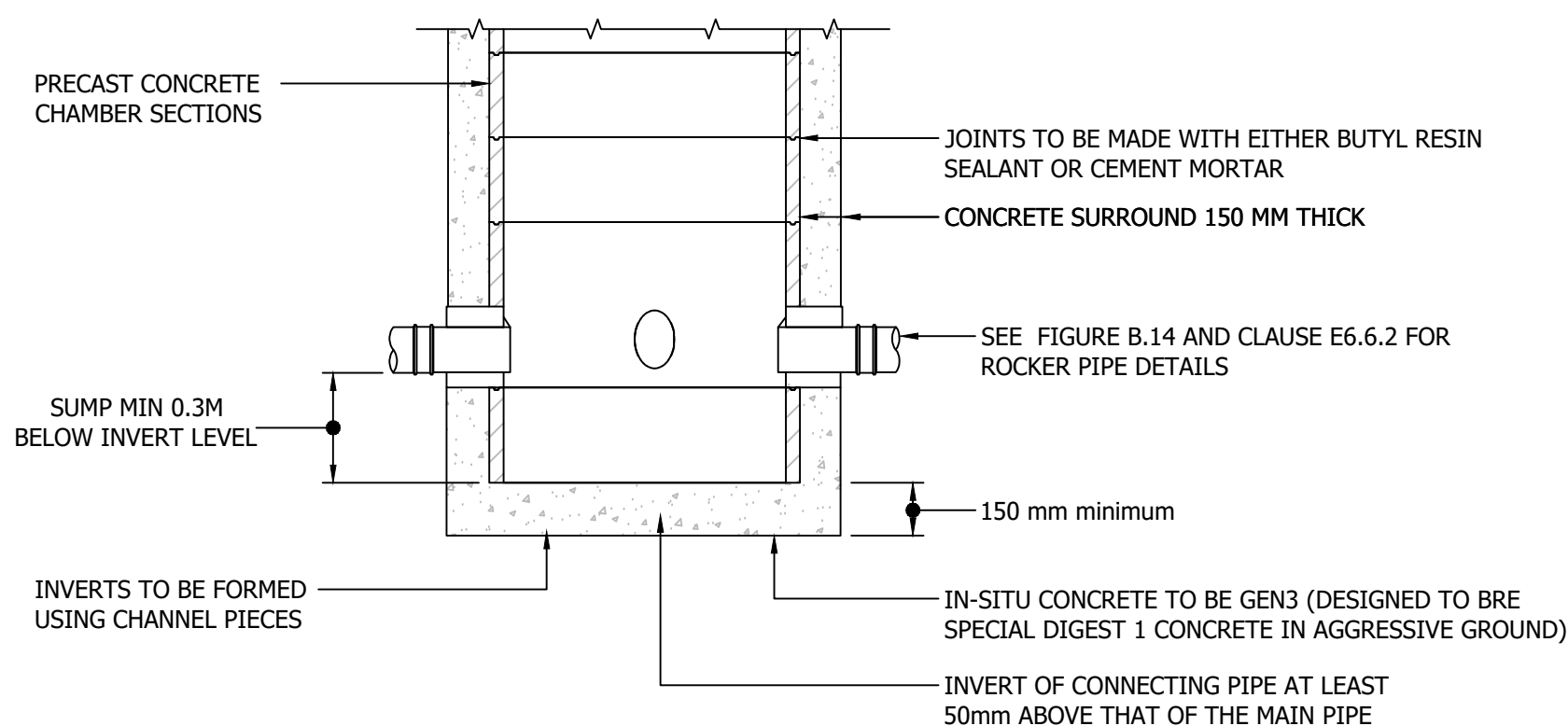
TABLE 8.1 - MANHOLE DIAMETERS	
NOMINAL INTERNAL DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	MINIMUM NOMINAL INTERNAL DIMENSION OF MANHOLE (mm)
LESS THAN 375	1200
375 - 450	1350
500 - 700	1500
750 - 900	1800
GREATER THAN 900	PIPE DIAMETER + 900



1.2m MAX. UNIVERSAL INSPECTION CHAMBER
FOR USE IN SOFT AREAS, DRIVEWAYS AND PARKING BAYS ONLY
(SCALE 1:20)

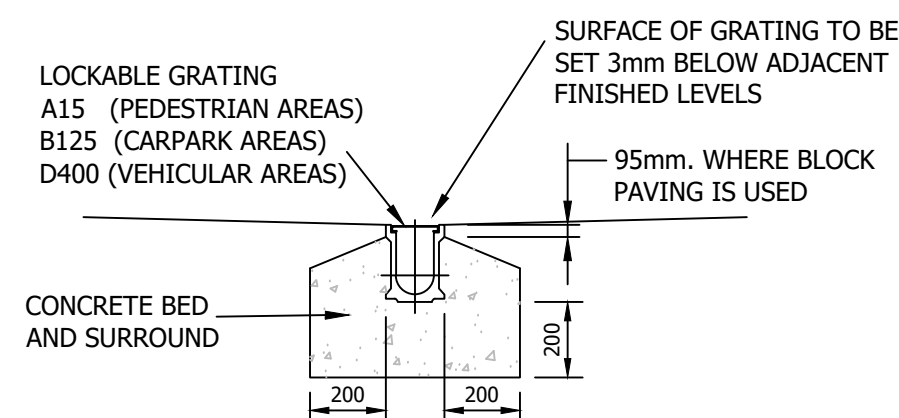


NOTE:
 AQUACELL OR EQUIVALENT UNITS TO BE LAID PARALLEL
 WITH EACH OTHER. IN MULTIPLE LAYER APPLICATIONS,
 CONTINUOUS VERTICAL JOINTS SHOULD BE AVOIDED
 AND LAID IN A "BRICK BONDED" FORMATION.
 FOR SINGLE LAYER APPLICATIONS USE THE WAVIN
 CLIPS AND FOR MULTI LAYERS USE WAVIN CLIPS AND
 WAVIN SHEAR CONNECTORS.
 ALL AQUACELL EQUIVALENT UNITS SHALL BE INSTALLED
 IN ACCORDANCE WITH THE MANUFACTURERS
 RECOMMENDATIONS.

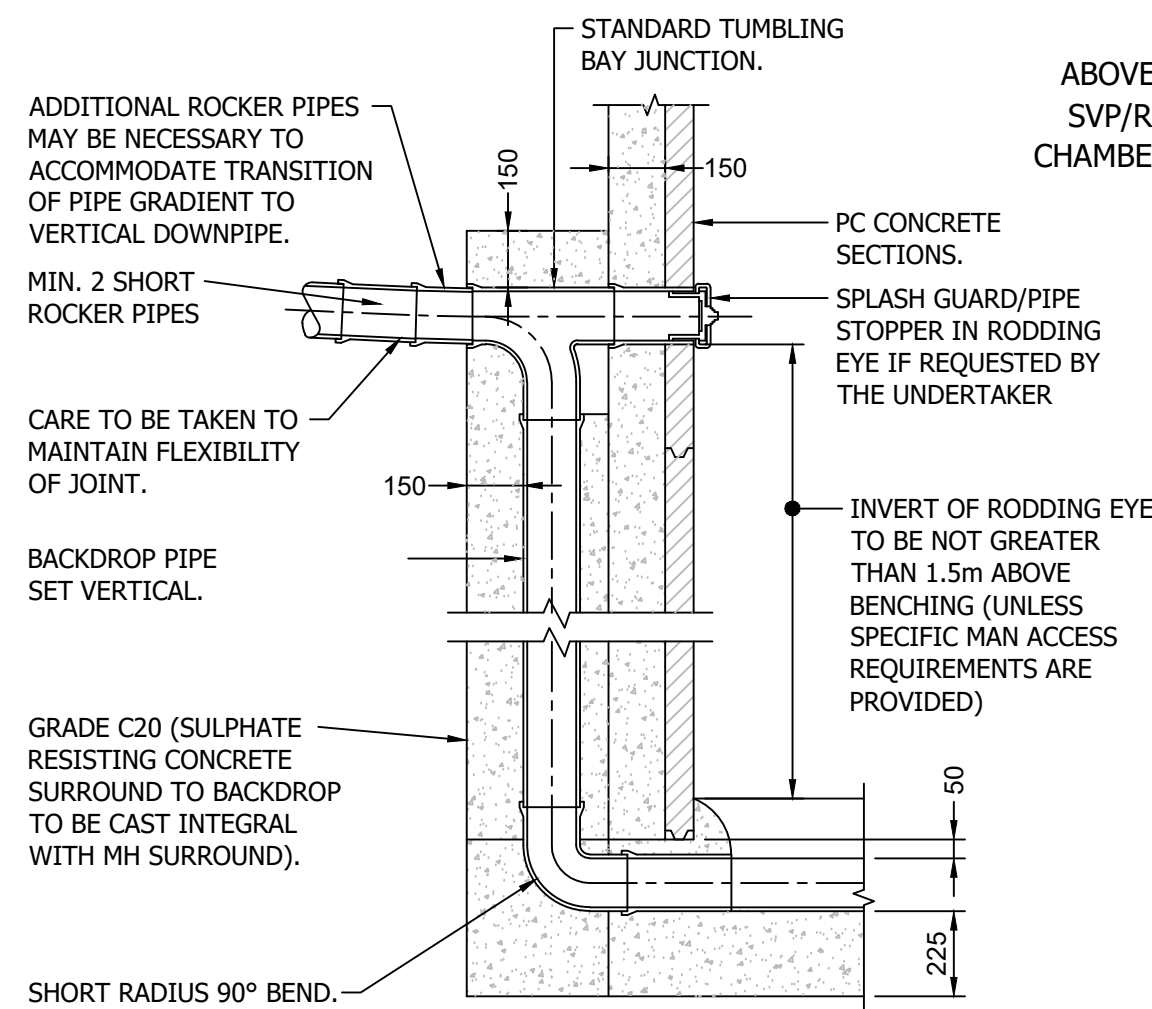


TYPICAL SURFACE WATER CATCHPIT CHAMBER DETAIL

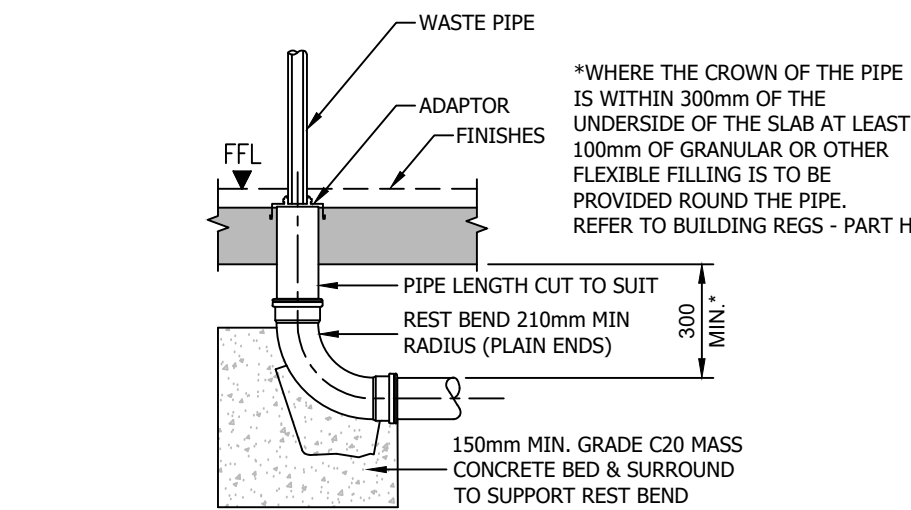
SUMP MIN.300mm
BELOW THE INVERT LEVEL



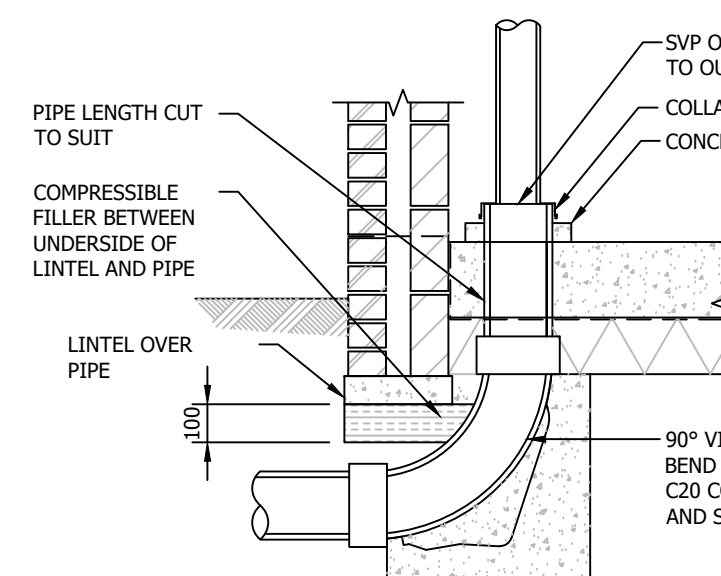
TYPICAL SECTION THROUGH CHANNEL DRAIN



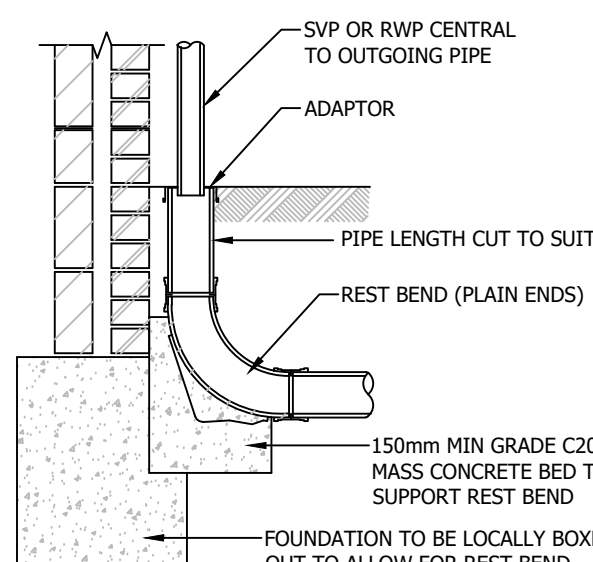
TYPICAL EXTERNAL BACKDROP DETAIL
FOR USE IN SOFT AREAS, DRIVEWAYS AND PARKING
BAYS ONLY
(SCALE 1:20)



INTERNAL WASTE

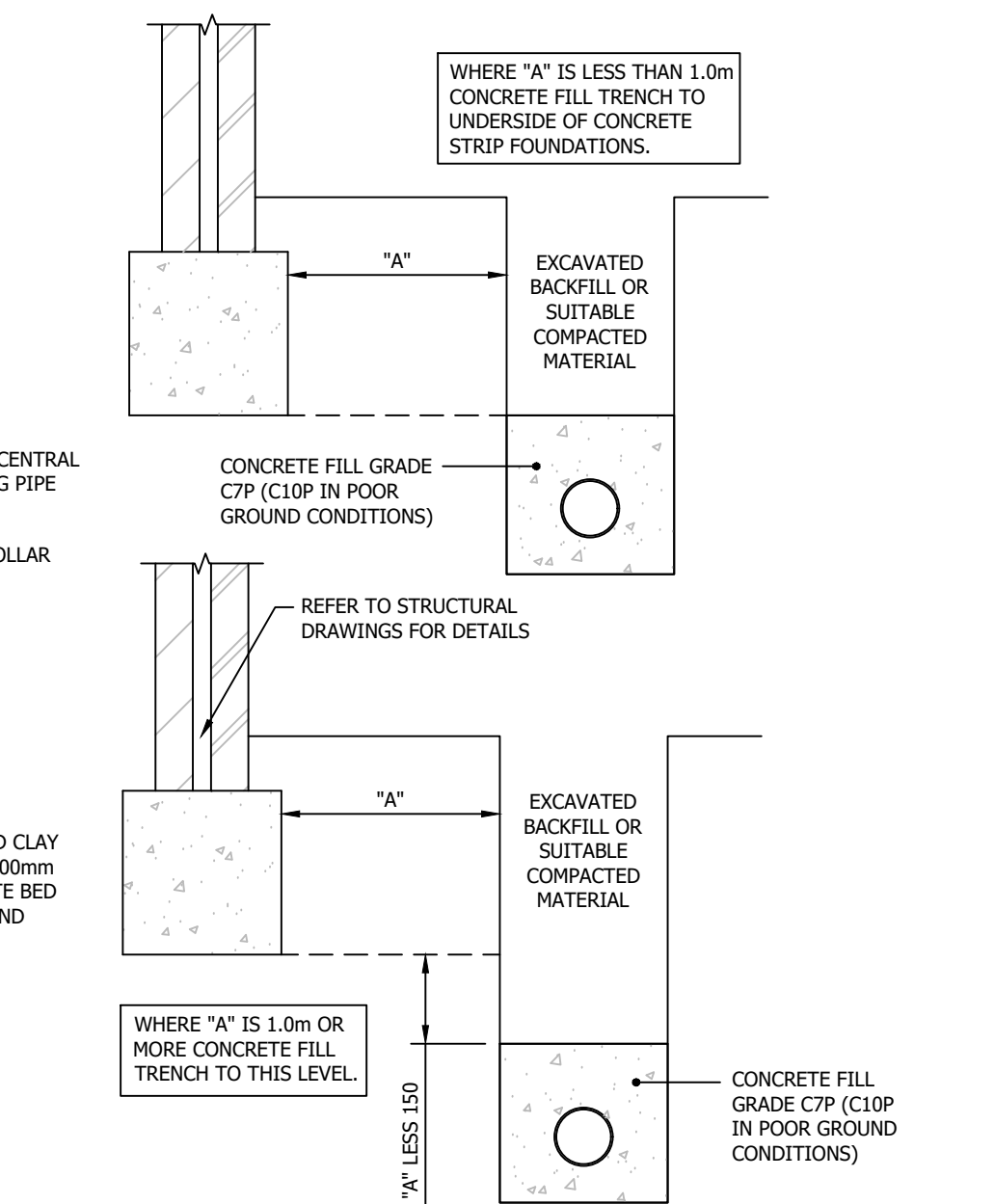


INTERNAL SVP/RWP

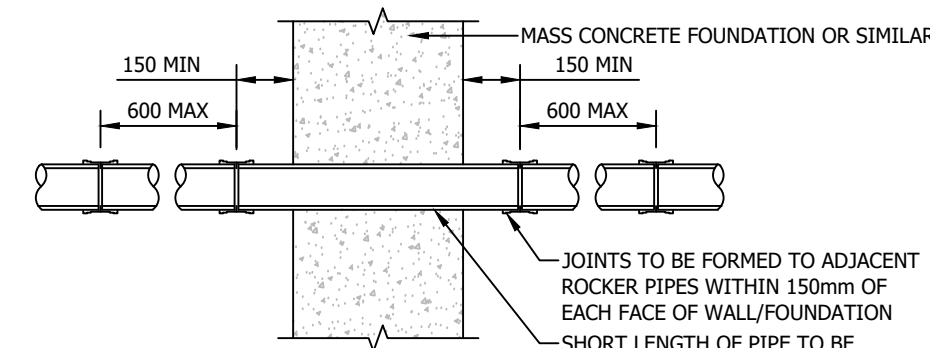


EXTERNAL RWP

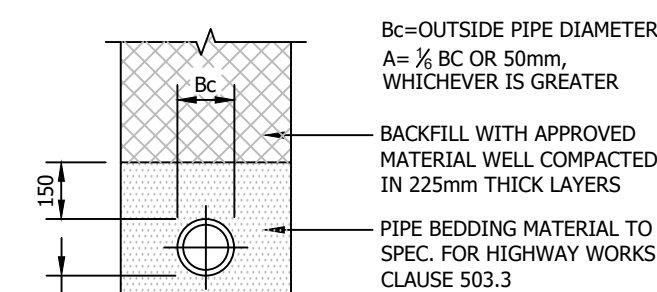
ABOVE DETAIL IS ONLY TO BE USED WHERE
SVP/RWP CONNECTS DIRECTLY TO ACCESS
CHAMBER, INSPECTION CHAMBER OR MANHOLE



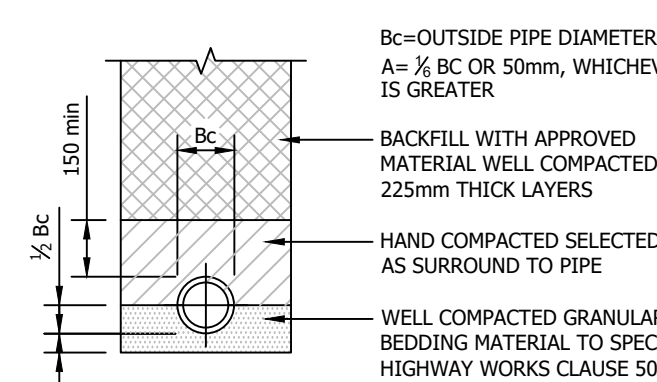
PIPE RUNS NEAR BUILDING FOUNDATIONS



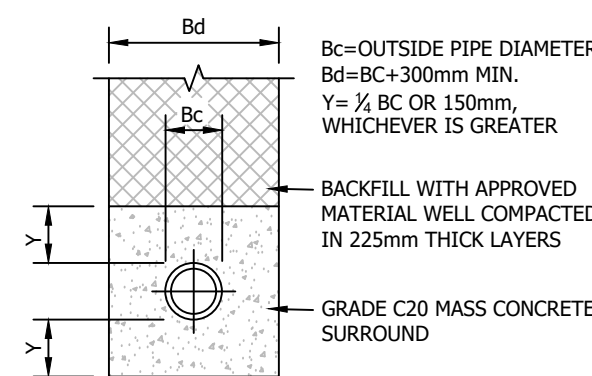
PIPE/FOUNDATION JUNCTION



CLASS S BEDDING
(GRANULAR BED & SURROUND)



CLASS B BEDDING
(GRANULAR BED & HAUNCH)



CLASS Z BEDDING
(CONCRETE BED & SURROUND)

- NOTES:
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER CONSTRUCTION DRAWINGS AND THE CLIENT'S SPECIFICATION.
 2. ALL PRIVATE DRAINAGE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROVISIONS LAID DOWN IN BS EN 752 & THE BUILDING REGULATIONS, PART H.
 3. BEFORE COMMENCING ANY SEWER OR DRAINAGE WORKS, THE DEVELOPER'S GROUND WORKER MUST SATISFY THEMSELVES AND THE CLIENT THAT THE ACTUAL LEVELS, TYPE AND CONDITIONS OF EXISTING SEWERS ARE SUITABLE FOR THE PROPOSED WORKS.
 4. ALL BURIED CONCRETE TO BE STRICTLY IN ACCORDANCE WITH THE SPECIFICATIONS.
 5. ALL ABANDONED, BURIED OBSTRUCTIONS ENCOUNTERED DURING THE CONSTRUCTION OF THE WORKS ARE TO BE BROKEN OUT TO BED LEVEL OF NEW DRAINS AND SEWERS. RESIDUAL VOIDS TO BE BACKFILLED TO FORMATION LEVEL WITH IN FULLY COMPACTED LAYERS OF EITHER TYPE 2 GRANULAR MATERIAL (UNDER PAVED AREAS) OR SUITABLE AS DUG MATERIAL (UNDER SOFT AREAS).
 6. PRIOR TO COMMENCEMENT OF ANY OF THE ONSITE DRAINAGE WORKS, THE CONTRACTOR IS REQUIRED TO CHECK THE LINE, LEVEL AND CONDITION OF ANY SEWERS TO BE REUSED, ANY CONFLICTS WITH EXISTING BELOW GROUND SERVICES OR LEVEL DIFFERENCES ARE TO BE REPORTED TO THE CLIENT'S ENGINEER IMMEDIATELY.
 7. IN SITU CONCRETE TO BENCHINGS OF FOUL MANHOLES TO BE CLASS 4 CONDITIONS; IE MIN. CEMENT CONTENT OF 360kg/m³ SUITABLE RESISTING PORTLAND CEMENT, AND MAX. FREE WATER RATIO OF 0.45 AND 20mm N.S AGGREGATE WITH GRANULITHIC TOPPING.
 8. ALL PRIVATE DRAINAGE TO BE LAID TO LEVELS SHOWN USING FLEXIBLY JOINED PIPES, EITHER UPVC TO BS 4660 AND BS 5481 OR VITRIFIED CLAYWARE TO BS EN 295. CLAY TO BE USED UNDER GENERALLY.
 9. SUBSIDIARY PIPES TO HAVE GRANULAR BED & SURROUND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, ENSURING ADEQUATE PROTECTION WITH RESPECT TO DEPTH AND LOCATION.
 10. PRIVATE MANHOLES TO BE CONSTRUCTED USING CONCRETE BOX SECTIONS, CIRCULAR RINGS TO BS 5911, OR POLYPROPYLENE INSPECTION CHAMBERS (PPICS) WHERE LESS THAN 1.2m DEEP. ALL LATE 150mm CONCRETE SURROUND (GRANULAR TO PPICS IN SOFT AREAS). SIZE AND CONSTRUCTION TO COMPLY WITH THE CONSTRUCTION DETAILS AND REQUIREMENTS OF BS EN 752 AND APPROVED DOCUMENT PART H. COVERS TO BE DUCTILE, CLASS B125 FOR PEDESTRIAN AREAS, CLASS C250 TO CAR PARK AREAS AND D400 TO ALL OTHER AREAS.
 11. ACCESS PANELS ARE TO BE PROVIDED TO ALL RAINWATER PIPES, A MAX 300mm ABOVE FINISHED GROUND LEVEL. REFER TO M&E DETAILS.
 12. CARE MUST BE TAKEN TO ENSURE PRIVATE MANHOLES, ROOFING EYES, ETC. ARE NOT POSITIONED WITHIN THE CURTAGE OF ANY NEIGHBOURING PROPERTY, PUBLIC HIGHWAY, FOOTWAY OR VERGE.
 13. FLAT LATERAL CONNECTION TO BE 135° V JUNCTIONS (IE 45° OBlique JUNCTIONS) RELATIVE TO MAIN RUN.
 14. ALL EXISTING 'LIVE' MANHOLE AND INSPECTION CHAMBER COVERS AFFECTED BY THE NEW WORKS ARE TO BE RESET TO THE APPROPRIATE FINISHED LEVEL & SLOPE.
 15. ALL PIPES WITH LESS THAN 600mm COVER AND SITUATED UNDER THE BUILDING TO BE CONCRETE CAST.
 16. ALL LEVELS IN METRES (M) UNLESS SPECIFIED OTHERWISE. DATUM RELATIVE TO SURVEY DRAWING.
 17. MANHOLES IN PAVED AREAS TO HAVE RECESSED COVER & FRAME. THESE TO BE ORIENTATED TO MINIMISE CUT BLOCKS.
 18. NOTE ALL RWP/SVP POSITIONS AND SIZES TO BE CONFIRMED BY ARCHITECT. REFER TO ARCHITECTS DRAWINGS FOR POSITIONS OF RAINWATER PIPES AND SOIL VENT PIPES.
 19. ALL ROOF DRAINAGE CONNECTIONS TO BE 100MM DIA. LAID NO FLATTER THAN 1:40 U.N.O.
 20. ALL EXISTING RUNS MUST BE KEPT IN AN OPERATIVE STATE WITH THE MINIMUM OF DISRUPTION DURING REPLACEMENT OR WHEN MAKING A NEW CONNECTION.
 21. A SUITABLE METHOD STATEMENT MUST BE SUBMITTED TO THE CONTRACTS ADMINISTRATOR OFFICER PRIOR TO THE COMMENCEMENT OF ANY WORKS.
 22. AT ALL TIMES ACCESS MUST BE MAINTAINED TO ALL ROADS AND FOOTPATHS.

P01	31.10.19	HJB/PL	PRELIMINARY ISSUE
REV	DATE	DRAWN/CHK	REVISION INFO
STATUS:			

PRELIMINARY

CLIENT: _____

PROJECT:
POUND PLACE
ROUNDSTONE ROAD
ANGMERING

DRAWING TITLE:

PROPOSED DRAINAGE DETAILS (SHEET 1)

JOB NUMBER:	SCALE AT A1:	REV. STATUS:
SE1612	AS SHOWN	S1
DRAWING NUMBER:		REVISION:
PP-ISS-XX-XX-DR-C-3201		P01

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