

FIGURE B.12

TYPICAL MANHOLE DETAIL – TYPE 2

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

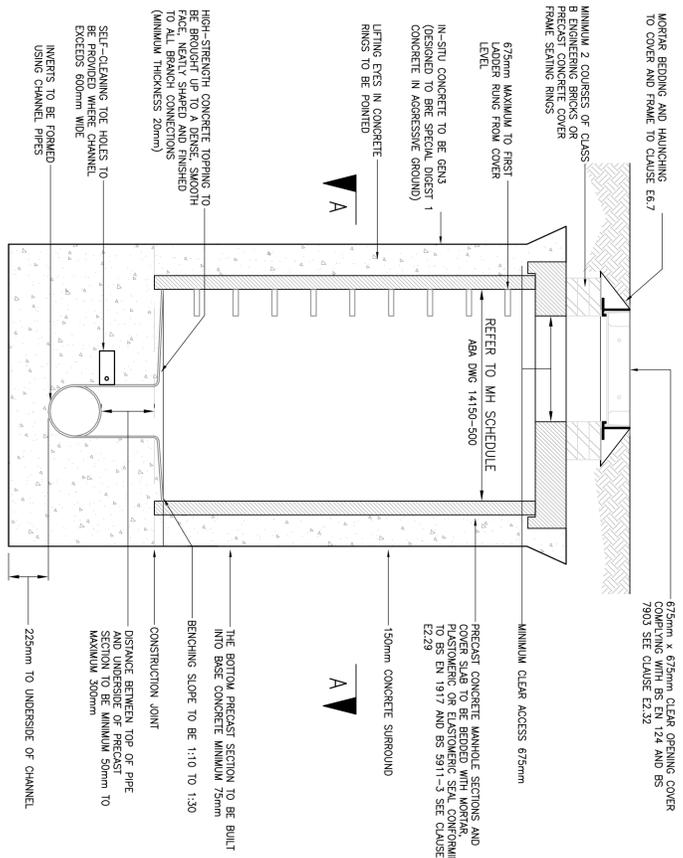


FIGURE B.16

TYPICAL INSPECTION CHAMBER DETAIL – TYPE 3 (FLEXIBLE MATERIAL DETAIL)

(MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE IN AREAS SUBJECT TO VEHICLE LOADING 3m, NON ENTRY)

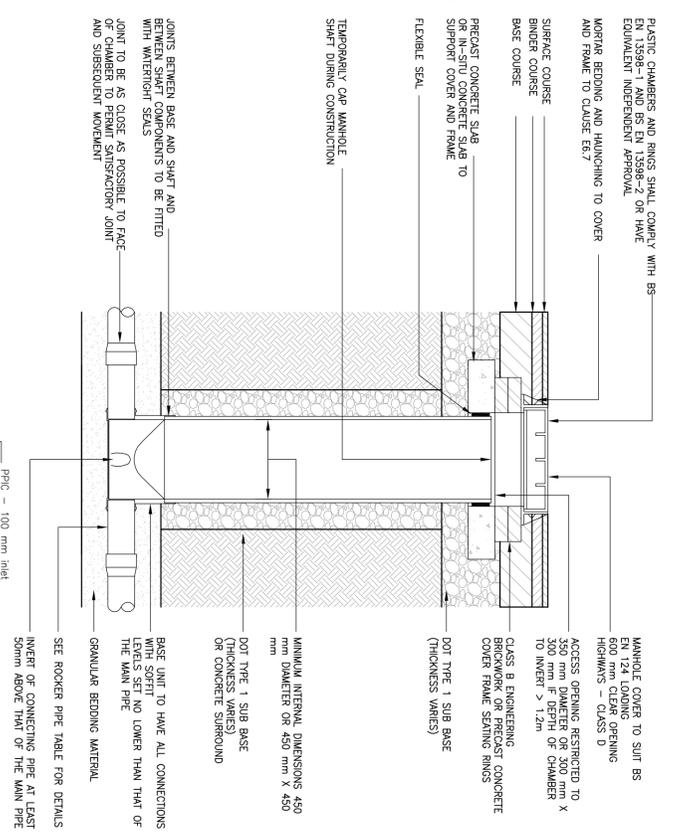
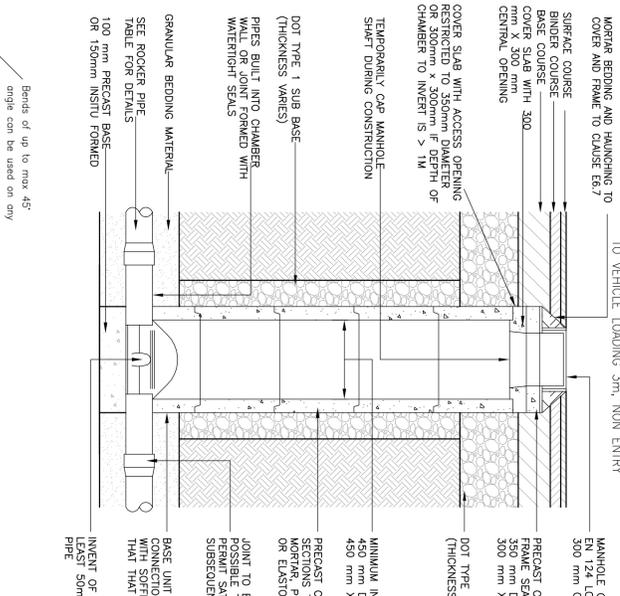


FIGURE B.18

TYPICAL INSPECTION CHAMBER DETAIL – TYPE 3

(MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE IN AREAS SUBJECT TO VEHICLE LOADING 3m, NON ENTRY)



NOTES

- UNLESS NOTED OTHERWISE, ALL BUILDING DRAINAGE PIPES TO BE MAIN UNDER BS EN 12402 TO BBA 98-5472.
- PIPES TO BE Laid IN ACCORDANCE WITH APPROVED MANUFACTURERS' GUIDELINES.
- ALL BRANING TO BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH BS 8301 AND BS 8005.
- MINIMUM COVER TO 150mm DIA PIPES: 600mm (FOR PIPES NOT UNDER ROAD)
- ALWAYS CONSULT MANUFACTURERS BEDDING AND SURROUND REQUIREMENTS.
- ALL PIPES WITH LESS THAN 1200mm COVER UNDER ROAD TO BE ENCASED WITH 150mm CONCRETE SURROUND TO GULLY POT.
- WHERE PIPES ARE SURROUNDED IN CONCRETE PRODUCE JOINTS IN ACCORDANCE WITH BUILDING REGULATIONS.
- ALL FOLI AND STORM WATER PIPES TO BE 100mm DIAMETER UNLESS NOTED OTHERWISE.
- MINIMUM GRADIENT FOR FOLI WATER PIPES TO BE 100mm DIA 1:40 OR 180 WITH <1 WC CONNECTION 150mm DIA 1:150
- MINIMUM GRADIENT FOR STORM WATER DRAINAGE 100mm DIA 1:100 150mm DIA 1:150
- CONTRACTOR TO INSPECT AND CONTROL LEVEL OF ALL EXISTING INVERTS & CONNECTION MANHOLES. ANY DEFICIENCIES ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
- ALL PROPRIETARY ANNUALLY ITEMS (e.g. ATTENUATION TANKS, OIL INTERCEPTORS ETC) TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' GUIDELINES.

PROCESS WASTEWATER BELOW GROUND DRAINAGE

SPECIALIST SUPPLIER
 CPV ENGINEERING PIPEWORK SOLUTIONS
 WOODINGTON MILL, WOODINGTON ROAD
 EAST WELLOW, ROMSEY, SO51 60Q

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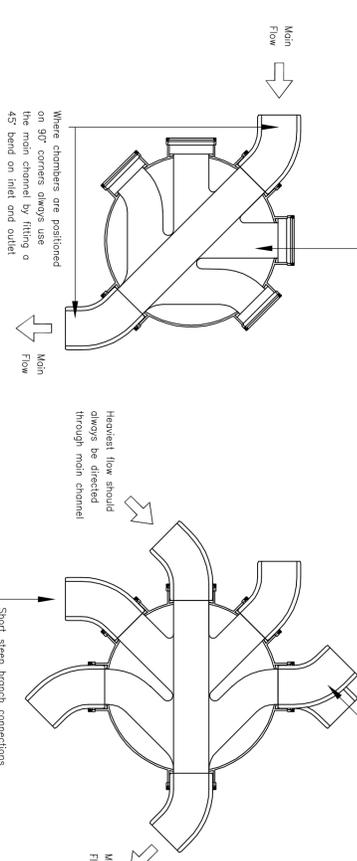
SYSTEM SPECIFICATION:
 CPV – ZURN/FLOWAY
 CHEMICAL DRAINAGE PIPE SYSTEM INCL. ASSOCIATED COUPLINGS, MANHOLES & ACCESS CHAMBERS OR CONCRETE PROTECTIVE LINER WHERE APPROPRIATE

THE FILLER GIP SOLUTION PROPERTIES ARE:
 NaOH (SODIUM HYDROXIDE)
 POSSIBLE TO BE CHEMICAL RESISTANT
 WASTEWATER TO BE DESIGNED BY OTHERS & BE SUITABLE FOR HOLDING CAUSTIC SOLUTIONS UP TO 8% AT 85°C.

CLIENT TO CONFIRM TRADE EFFLUENT REQUIREMENTS PRIOR TO CONSTRUCTION.

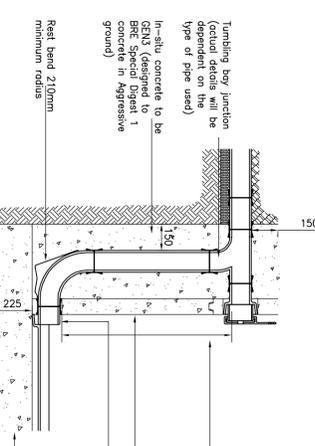
TYPICAL INSTALLATION DETAILS

SCALE 1:10



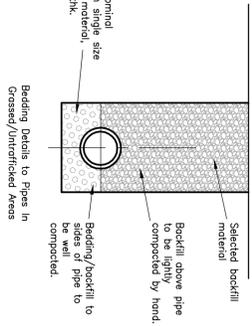
TYPICAL BACKDROP CONNECTION DETAIL

SCALE 1:5



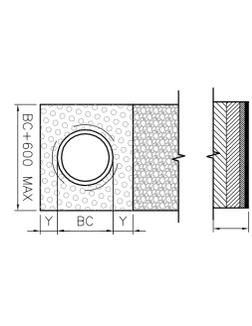
BEDDING DETAILS TO PIPES

CLASS 'S'



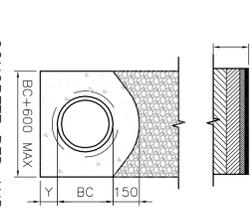
GRANULAR BED AND SURROUND

CLASS 'S'



CONCRETE BED AND SURROUND

CLASS 'Z'



WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1200mm OR GREATER

WHERE DEPTH OF COVER TO PIPE SOFFIT IS LESS THAN 1200mm

KEY

- TYPE 1 SUB BASE MATERIAL BACKFILL TO FORMATION LEVEL
- SINGLE SIZE GRANULAR MATERIAL
- GEN3 CONCRETE BED AND SURROUND
- GEN3 CONCRETE BED AND SURROUND
- DN = NOMINAL INTERNAL DIAMETER OF PIPE
- DR = OUTSIDE DIAMETER OF PIPE

DIMENSIONS

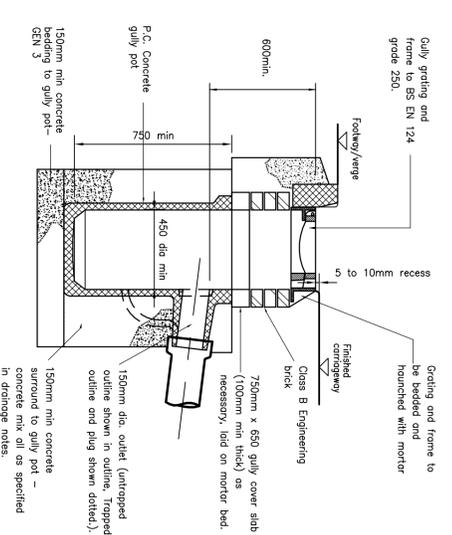
CLASS	MACHINE DUG UNIFORM SOIL	ROCK OR MIXED SOILS
S	NOTE (i)	NOTE (ii)
Z	NOTE (i)	NOTE (ii)

(i) Y=BC/6, WITH MIN 100 UNDER BARRELS (50 FOR STEEP JOINTED) AND MIN 50 UNDER SOCKETS, WHICHEVER IS THE GREATER, WITH MAX OF 400.

(ii) Y=BC/4, WITH MIN 200 UNDER BARRELS (150 FOR SLEEVE JOINTED) AND MIN 150 UNDER SOCKETS, WHICHEVER IS THE GREATER, WITH A MAX OF 400.

TYPICAL SECTION THROUGH ROAD GULLY

Note all Car Park & Access Road Gullies to be Trapped



PRELIMINARY



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