

FOUL DRAINAGE LAYOUT

THE DIMENSIONS SHOWN ON THE MANHOLE DETAILS ARE A MINIMUM ONLY.FOR MANHOLES WITH A GREATER NUMBER OF BRANCHES THE LENGTHS SHALL BE CALCULATED AS FOLLOWS:-
OPEN CHANNEL
100 mm BRANCHES:- ALLOW 375mm OF CHANNEL FOR THE HEAD BRANCH AND 300mm FOR SUBSEQUENT BRANCHES
150 mm BRANCHES:- ALLOW 500mm OF MAIN CHANNEL FOR EACH BRANCH.

FOUL MANHOLES 600mm DIA PPIC AS TEGRA UNITS OR SIMILAR APPROVED ALTERNATIVE – MAX 4 No INLETS AND OUTLETS – WHERE >1200 DEEP USE REDUCED SIZE ACCESS COVER – IN VEHICULAR AREAS USE C250 COVER AND FRAME – INSTALLED – BEDDED AND SURROUNDED – FULLY TO MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.

ACCESS COVER AND FRAME TO BS EN 124:1994 CLASS A15 FOR PRIVATE GARDENS, CLASS B125 FOR AMENITY AREAS, INDIVIDUAL DRIVES AND PARKING BAYS AND CLASS D400 FOR ROADS AND SHARED PARKING AREAS AND SHARED DRIVES

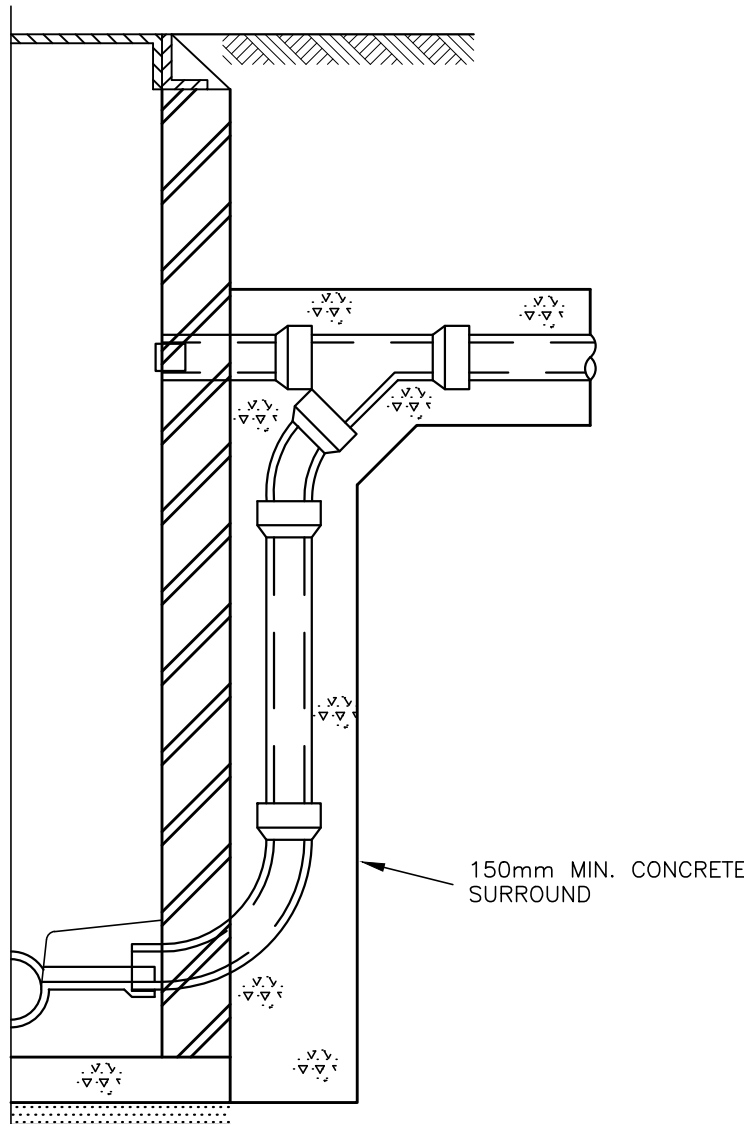
SURFACE WATER MANHOLES LESS THAN 1200 DEEP USE POLYPROPYLENE UNIVERSAL INSPECTION CHAMBERS 450mm DIA, 100 INLET OUTLET CONNECTIONS (6No MAX) or 150 INLET/OUTLET CONNECTIONS (4no max) – INSTALLED TO MANUFACTURERS SPECIFICATION AND RECOMMENDATIONS

GREATER THAN 1200 DEEP USE 600mm DIA TEGRA – COVER AS FOUL MANHOLES

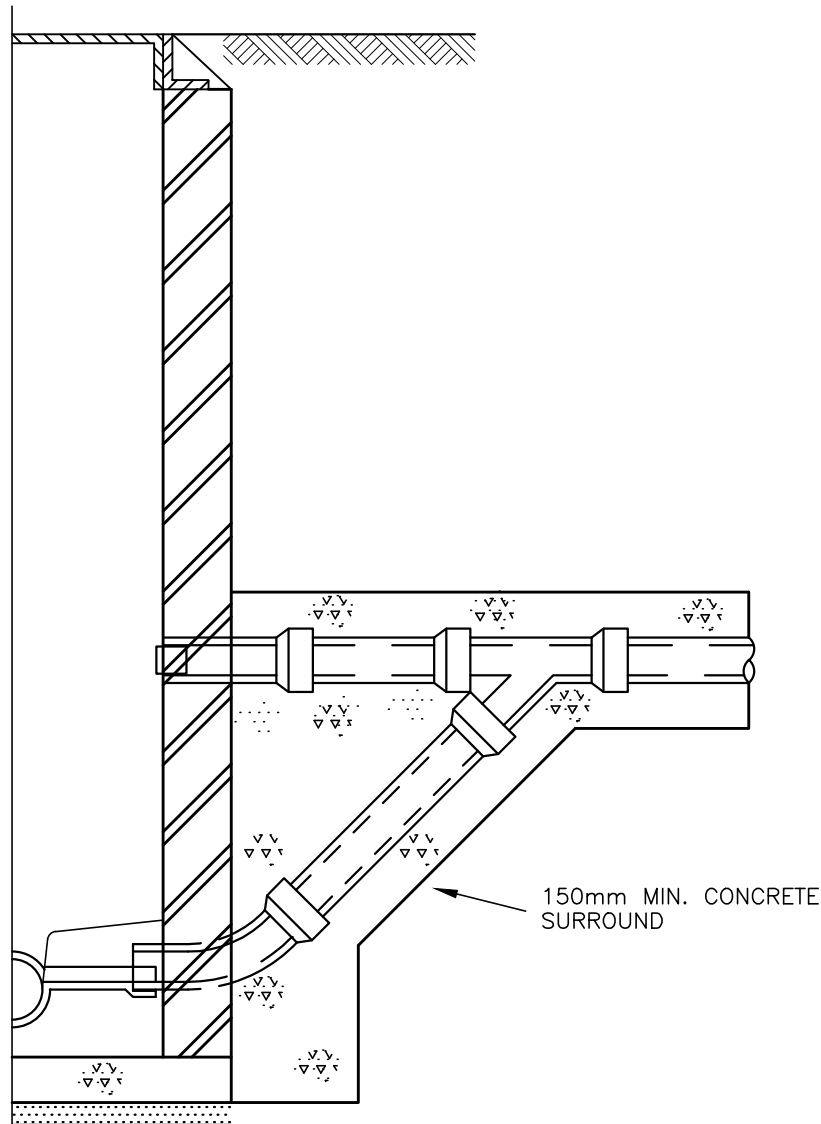
NOTE ALL INVERT LEVELS FOR SOIL PIPES AND STUB STACKS TO BE MIN 750mm BELOW FFL
RAINWATER PIPES 600mm – may be varied to suit branch crossings
MIN FALLS 1:80 MUST BE MAINTAINED THROUGHOUT

APPROX 1200mm DIAMETER FOUL WATER PUMP CHAMBER SUCH AS DELTA 2–1160–1540–65 OR SIMILAR INSTALLED FULLY TO MANUFACTURERS RECOMMENDATIONS

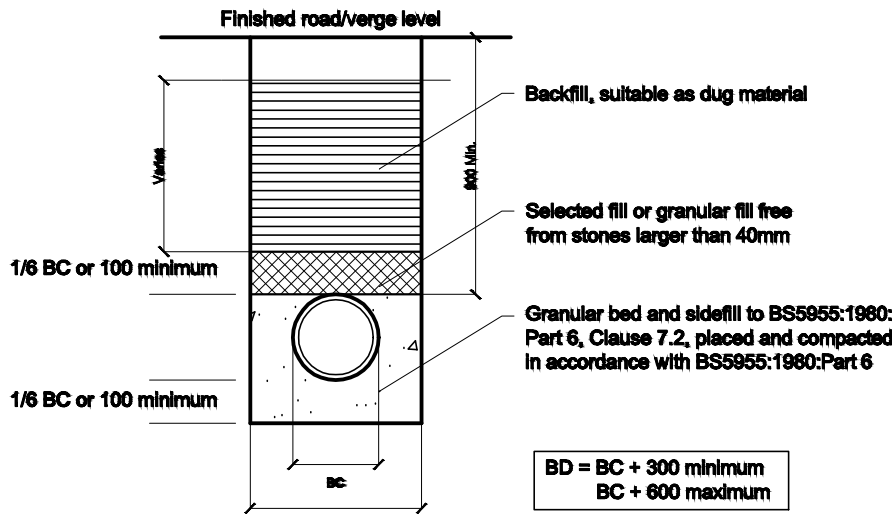
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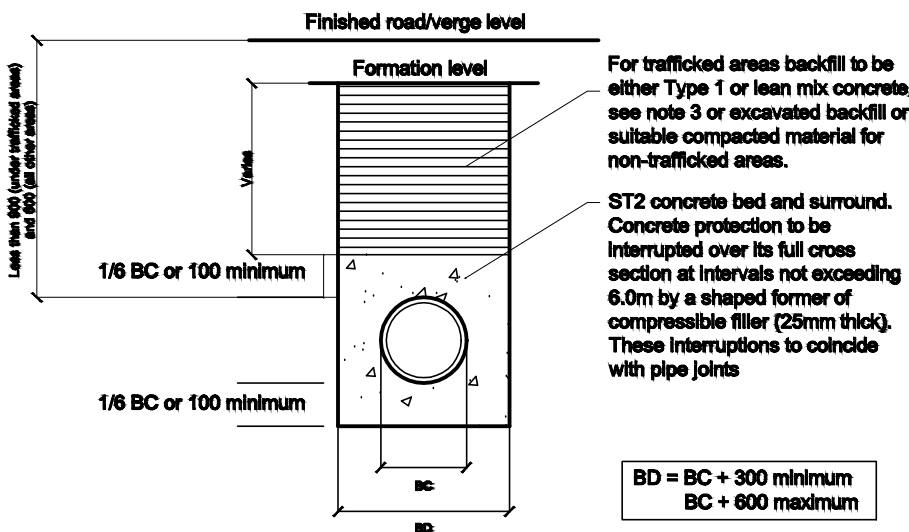
TYPICAL VERTICAL BACKDROP
FOR DIFFERENCE IN INVERT OF MORE THAN 2m



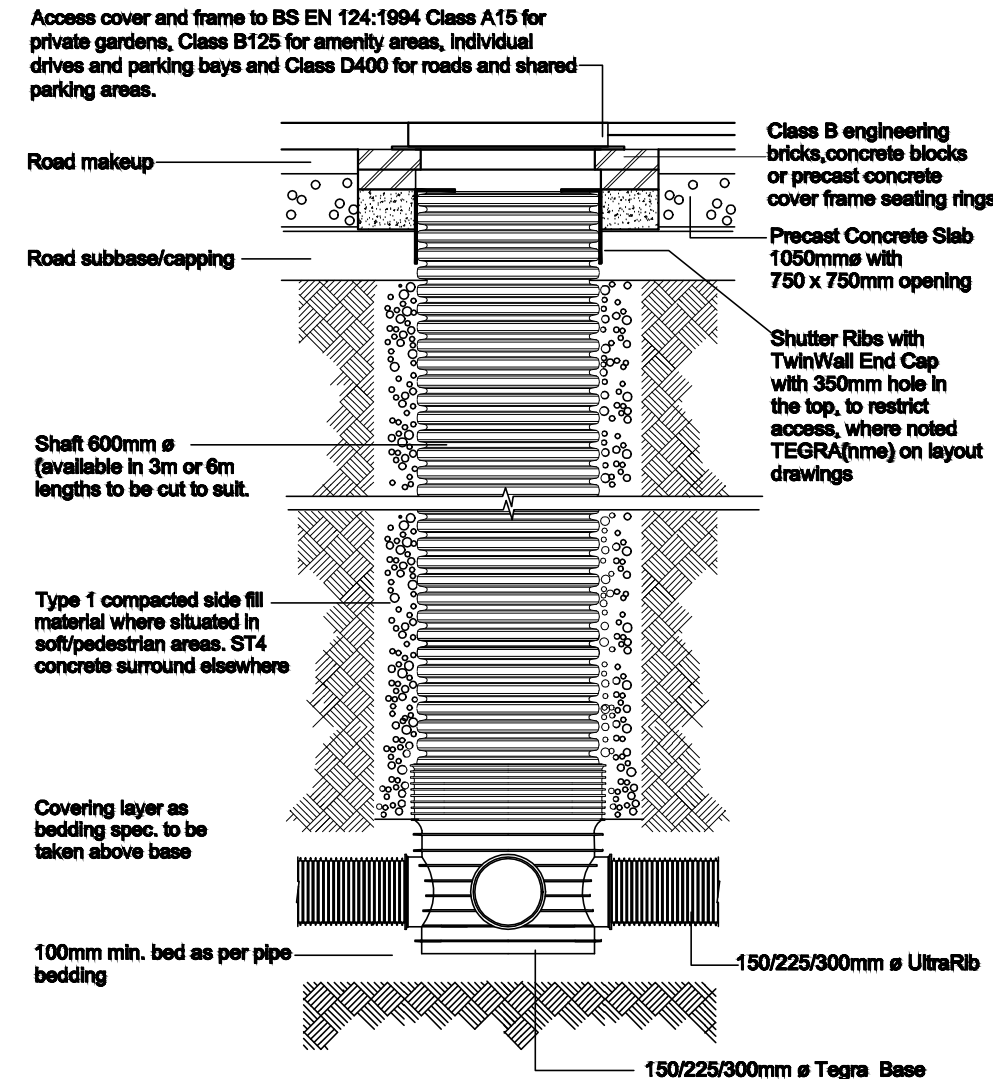
TYPICAL 45° RAMPED BACKDROP
FOR DIFFERENCE IN INVERT OF LESS THAN 2m



Typical trench detail

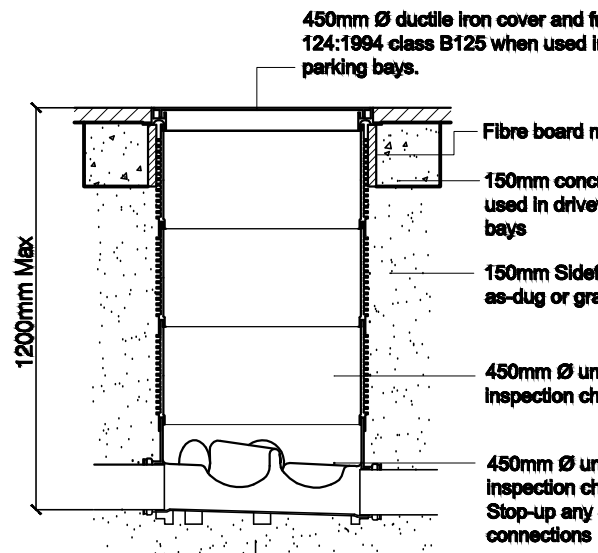


Shallow trench detail



Meers Wavin 'Tegra 600' Inspection chamber

For use in any trafficked areas (up to D400 rating) and / or where pipe diameters >150 and up to 300mm dia.
Where noted 'TEGRA' or 'TEGRA(rme)' on layouts



(Inlet/Outlet & 4 branch connections for 100 Ø pipes)
(Inlet/Outlet & 2 branch connections for 150 Ø pipes)

Note: Chambers in driveways and parking bays to have 150mm ST4 concrete surround.

1.2m Max. Polypropylene Inspection chamber

For use in soft areas, driveways and parking bays only

NOTES

ALL PRIVATE DRAINAGE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROVISIONS LAID DOWN IN BS EN 752 AND THE BUILDING REGULATIONS PART H

DRAINAGE UNDER ADOPTED ROADS TO BE EITHER:-
a)VITRIFIED CLAYWARE TO BSEN295
b)CONCRETE TO BS5911 CLASS M. LATERALS TO BE FORMED OF EITHER VITRIFIED CLAY OR "EXTRA STRENGTH" CONCRETE CLASS M

BEFORE COMMENCING ANY SEWER WORKS THE CONTRACTOR MUST SATISFY THEMSELVES AND THE LOCAL AUTHORITY OR OTHER RELEVANT STATUTORY BODIES OF ACTUAL LEVELS AND CONDITION OF EXISTING SEWERS

BURIED CONCRETE TO SATISFY THE REQUIREMENTS OF BRE SPECIAL DIGEST 1 = AC-1 AND SITE INVESTIGATION REPORT

ALL ABANDONED, BURIED OBSTRUCTIONS ENCOUNTERED DURING THE CONSTRUCTION OF DRAINAGE WORKS ARE TO BE BROKEN OUT TO BED LEVEL OF DRAINS AND SEWERS AND TO THE FORMATION OF CARPARKS AND EXTERNAL AREAS, ETC

DEPTH, INVERTS AND LOCATION OF EXISTING DRAINS TO BE VERIFIED PRIOR TO COMMENCEMENT – REPORT ANY DISCREPANCIES

ALL PRIVATE DRAINS TO BE LAID TO LEVELS SHOWN USING FLEXIBLY JOINTED PIPES, VITRIFIED CLAYWARE TO BS EN 295

GENERALLY PIPES TO HAVE GRANULAR BED AND SURROUND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, ENSURING ADEQUATE PROTECTION WITH RESPECT TO DEPTH AND LOCATION

RODDING EYES, ETC ARE TO BE LAID TO MANUFACTURERS MINIMUM COVER AND DEPTH TO ALLOW ADEQUATE FALL FROM ADJOINING UNIT

ACCESS PANELS ARE TO BE PROVIDED TO ALL RAINWATER PIPES MAX 600mm ABOVE FINISHED FLOOR LEVEL

ALL MANHOLES AND INSPECTION CHAMBERS IN PAVED AREAS TO HAVE RECESSED COVERS. MH COVERS IN PAVED AREAS TO HAVE COVER AND FRAME ORIENTATED "SQUARE" WITH PAVING TO MINIMISE CUTTING OF SLABS OR BLOCKS

ALL LEVELS ARE IN METRES UNLESS OTHERWISE NOTED

THE FW AND SW SEWER CONNECTIONS ARE TO BE SUCCESSFULLY MADE PRIOR TO COMMENCING ANY UPSTREAM DRAINAGE WORKS

ON SITE SEWERS WILL BE SUBJECT TO ADAPTING UNDER THE CURRENT REGULATIONS.

SEWER CONNECTIONS ARE SUBJECT TO THAMES WATER APPROVAL (BY OTHERS)

REV	DESCRIPTION	DATE
JOB		
251 GOLDHURST TERRACE LONDON NW6 3EP		
TITLE		
DRAINAGE LAYOUT BASEMENT SLAB DETAILS		
 207 LBY STREET LIVERPOOL L14 4BL email: info@baharadesigns.com TEL: 020 8550 2984 FAX: 0208 550 2438		
SCALE 1:100	DRAWN	DATE NOV 20
DRAWING N°.	CHECKED 3750–DR01	