

WHERE CHAMBERS ARE POSITIONED

ON 90° CORNERS ALWAYS USE THE

MAIN CHANNEL BY FITTING A 45°

BEND ON INLET AND OUTLET

MAIN FLOW

PLAN ON PPIC. INSPECTION CHAMBER

SECTION THROUGH MINI ACCESS CHAMBER (FLEXIBLE MATERIAL)
MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 2M, NON-ENTRY

MINIMUM RADIUS TO BE 500mm FOR A

FOR A 150mm DIAMETER PIPE TO ALLOW-

100mm DIAMETER PIPE AND 600mm

ENTRY OF MAINTENANCE EQUIPMENT

JOINTS BETWEEN BASE AND SHAFT

GRANULAR BEDDING MATERIAL

-

AND SHAFT COMPONENTS TO BE

FITTED WITH WATERTIGHT SEALS

PLASTIC CHAMBERS & RINGS SHALL

COMPLY WITH BS EN 13598-1 AND

DOT TYPE 1 SUB BASE (THICKNESS

VARIES) OR CONCRETE SURROUND

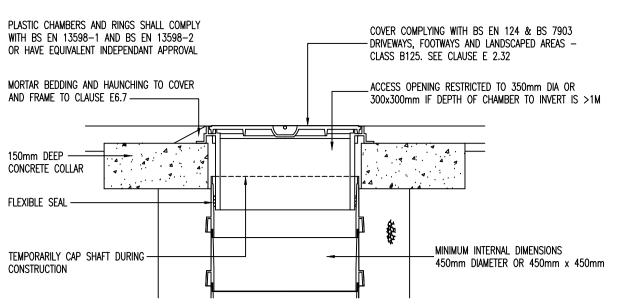
BASE UNIT TO HAVE ALL CONNECTIONS

WITH SOFFIT LEVELS SET NO LOWER THAN

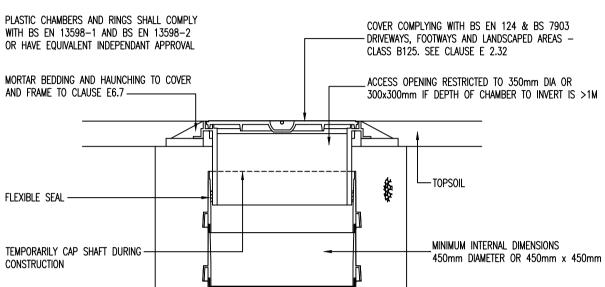
INDEPENDENT APPROVAL

THAT OF THE MAIN PIPE

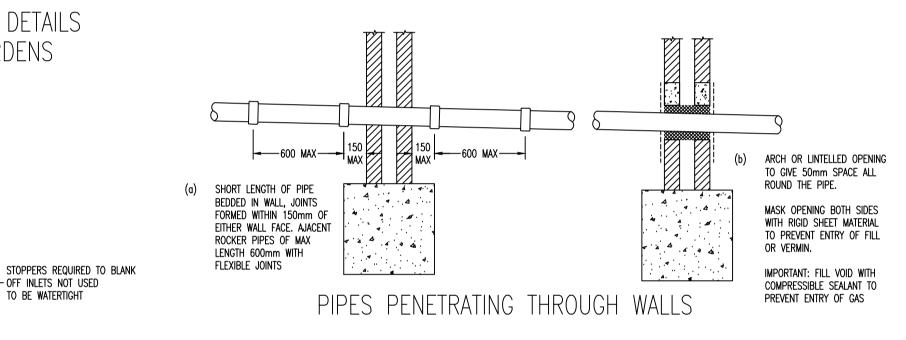
BS EN 13598-2 OR HAVE EQUIVALENT



PPIC. ALTERNATIVE TOP DETAILS SITED IN DOMESTIC DRIVEWAYS OR FOOTWAYS (N.T.S)



PPIC. ALTERNATIVE TOP DETAILS



WHERE CHAMBERS ARE POSITIONED

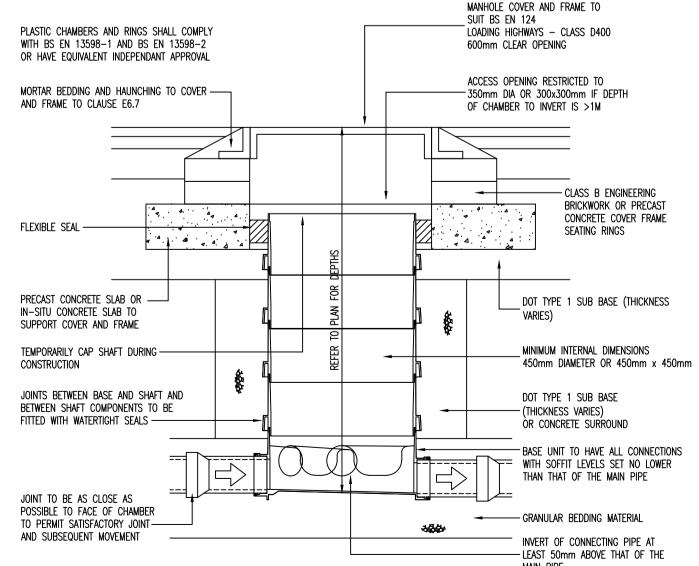
ON 90° CORNERS ALWAYS USE THE

BEND CODE SB1/2 ON INLET AND

— MAIN CHANNEL BY FITTING A 45°

- OFF INLETS NOT USED

TO BE WATERTIGHT



SECTION THROUGH PPIC. INSPECTION CHAMBER (FLEXIBLE MATERIAL) MAX. DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE IN AREAS SUBJECT TO VEHICLE LOADING 3M, NON-ENTRY

NOTE: WHERE THE ACCESS CHAMBER IS IN THE HIGHWAY THE HIGHWAY

EMBEDMENT DI	MENSIONS FOR R	GID PIPES			
NOMINAL INT PIPE DIA	DIMENSION Y1 EVEN TRENCH BOTTOM (MIN)	DIMENSION Y2 ROCK OR UNEVEN TRENCH BOTTOM (MIN)	PROCESSED GRANULAR MATERIAL	DIMENSION Z (MIN)	MAX PERMITTED TRENCH WIDTH
150	100	200	10MM SINGLE	100	750
225	100	200	SIZED OR 14MM	100	825
300	100	200	TO 5MM GRADED	100	925
375	100	200] 14MM SINGLE	100	1050
450	150	200	SIZED OR 14MM	150	1150
525	150	250	TO 5MM GRADED	150	1200
600	150	250	1	150	1350
675	150	250		225	1450
750	225	300		225	1500
825	225	300		225	1600
900	225	300	20MM SINGLE	225	1900
975	225	300	SIZED OR 20MM	300	2000
1050	225	300	TO 5MM GRADED	300	2100
1125	225	300		300	2200
1200	250	350		300	2300
1350	375	450		375	2500
1500	375	450		375	2700
1650	375	450	J	450	2800
1800	375	500) 40044 614015	450	3100
1950	400	500	40MM SINGLE SIZED OR 40MM TO 5MM GRADED	525	3200
2100	425	650		525	3400
2400	450	675	J 10 SIMIN GIVADED	600	3700

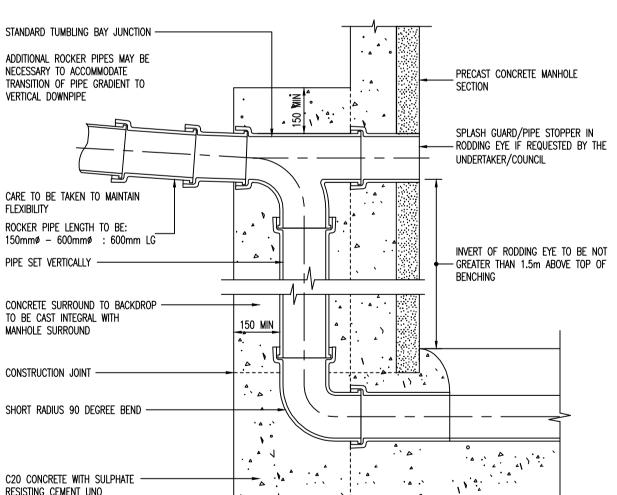
NORMINAL INT PIPE DIA	MINIMUM INTERNAL CHAMBER DIA	
LESS THAN 375	1200	
375 – 450	1350	
500 - 700	1500	
750 – 900	1800	
GREATER THAN 900	PIPE DIA + 900	

NOTE:

1 ALL DIMENSIONS IN MM

2 A CONCRETE SURROUND IS REQUIRED FOR MANHOLES INSTALLED IN AREAS OF UNSTABLE GROUND, UNDER CONDITIONS OF FLOATATION OR WHERE SUBJECTED TO EXCEPTIONAL OR ECCENTRIC LOADS, IN WHICH CASE A 150mm SURROUND OF AT LEAST 20N/CU. mm CONCRETE SHOULD BE PROVIDED. ANY JOINTS SHOULD BE STAGGERED WITH

3 DOUBLE STEPS SHALL BE PLASTIC ENCAPSULATED CARBON TO BS EN 1247-2 MANHOLE STEPS. STEP IRONS AT 300 CENTRES HORIZONTALLY AND VERTICALLY MAY BE USED AS AN ALTERNATIVE TO DOUBLE STEPS.



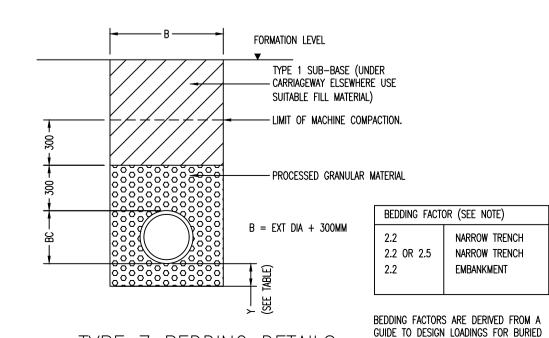
TYPICAL BACKDROP DETAIL

1 4

RIGID PIPES" AND IGN 4-11-02 "REVISED

BEDDING FACTOR FOR VITRIFIED CLAY

DRAINS AND SEWERS".



TYPE 7 BEDDING DETAILS (EMBEDMENT CLASS S)

THE PURPOSE OF THIS DRAWING IS FOR TYPICAL CONSTRUCTION DETAILS ONLY. MANHOLES / PIPE DIAMETERS / SUMP DEPTHS ETC WILL VARY ON PLAN.

DO NOT SCALE OFF THIS DRAWING

This drawing to read in conjunction with all relevant structural and architectural

All works to be carried out in strict accordance with the engineer's specifications,

relevant British Standards and where applicable Local Authorities requirements.

Any ambiguities, omissions and errors on Drawings, shall be brought to the Engineers

The Contractor shall confirm the location and level of existing drainage outfalls prior to

Exact locations of proposed manholes and inspection chambers to be determined on

All pipes built into the manhole inverts shall be installed with soffits levels UNO.

Connections to road gulleys shall be in 150mm nominal bore. Connections to other

Cover levels shown are approximate and shall be adjusted and confirm on site by the

The Contractor shall protect the pipeline from damage by site traffic during construction.

Pipework and fittings shall comply with the following requirements except where noted

100 and 150mm diameter, minimum crushing strength 50kN/m on Class F bedding.

Trenches in highways and car parking areas shall be backfilled with Type 1 granular

Soft spots in the trench formation shall be removed and replaced with granular bedding

Road gulleys shall be constructed using a 900mm deep x 450mm diameter gulley pot,

srrounded by 150mm thickness C20 concrete, with rodding eye and chained stopper.

Gulley covers shall be Grade B captive hinged ductile iron to BS497 black coated.

Unless noted otherwise manhole covers shall be ductile iron to BS497 black coated with

connections in pipes between manholes runs shall be formed by using purpose made

The Contractor shall confirm the location of all existing statutory undertakers apparatus

layware, 45° junction fittings to BS65. Bend fittings shall be provided where

Alternatively main pipes may be diamond cored to take lateral connections with a

All dimensions to be checked on site by the contractor / fabricator prior to

All dimensions are in millimeters unless stated otherwise

terminal fittings shall be in 100mm nominal bore pipe UNO.

GENERAL NOTES

drawings and specifications.

commencement of works.

attention immediately.

Clayware pipes to BS 65

unless instructed otherwise.

600 x 600 Grade A.

appropriate to direct the flow into the main runs.

saddle fitting to BS65 and 150mm C20 concrete surround.

and service connections by trial pits prior to opening up for the works.

REFER TO DRAINAGE LAYOUT DRAWING FOR ALL PIPE SIZES. MANHOLE SIZES. PIPE LENGTHS. SUMP DEPTHS, STORAGE TANK CONFIGURATIONS, COVER LEVELS AND INVERT LEVELS

P1 31.01.18 MP ISSUED FOR INFORMATION Rev Date Checked Description

WORKING DRAWING



BURY COUNCIL

ELMS BANK, ARTS COLLEGE, RIPON AVENUE WHITEFIELD, M45 8PJ

TYPICAL DRAINAGE DETAILS SHEET 1 OF 2

Scale at A1 NTS Drawing number 29387-665 Drawn by JG JAN 2018 Revision suffix