

TYPICAL TYPE 'B1/E' MANHOLE SECTION DEPTH FROM GROUND LEVEL TO SOFFIT OF PIPE LESS THAN

1.5m **SCALE 1:20**

ALL PRECAST CONCRETE TO BS 5911:2 & BS 8301 KITEMARKED.

SCHEDULE OF CHAMBER DIAMETERS		
DIA. OF LARGEST PIPE IN		
MANHOLE	MANHOLE	
LESS THAN 375Ø	1200	
375-700 (incl)	1500	
750-900 (incl)	1800	
>900	2100+	

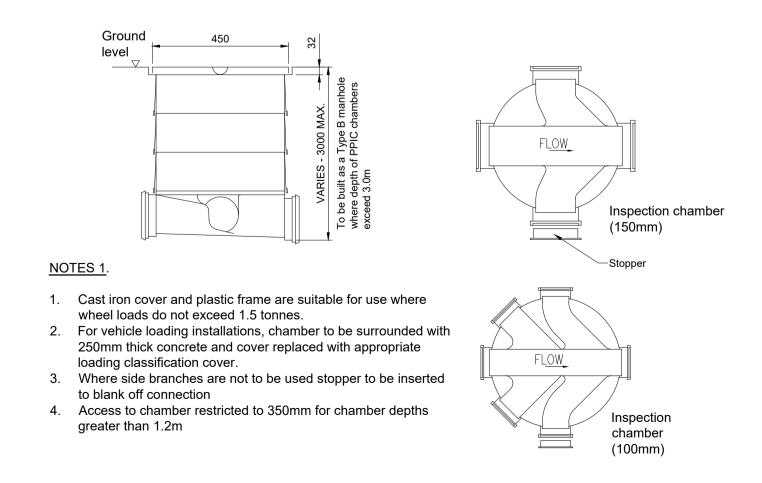
NOTE: CHAMBER SIZES OF MANHOLES WITH MORE THAN ONE CONNECTION MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE.

NOMINAL SIZE	EFFECTIVE LENGTH (m)		
150 TO 600	0.60		
601 TO 750	1.00		
OVER 750	1.25		

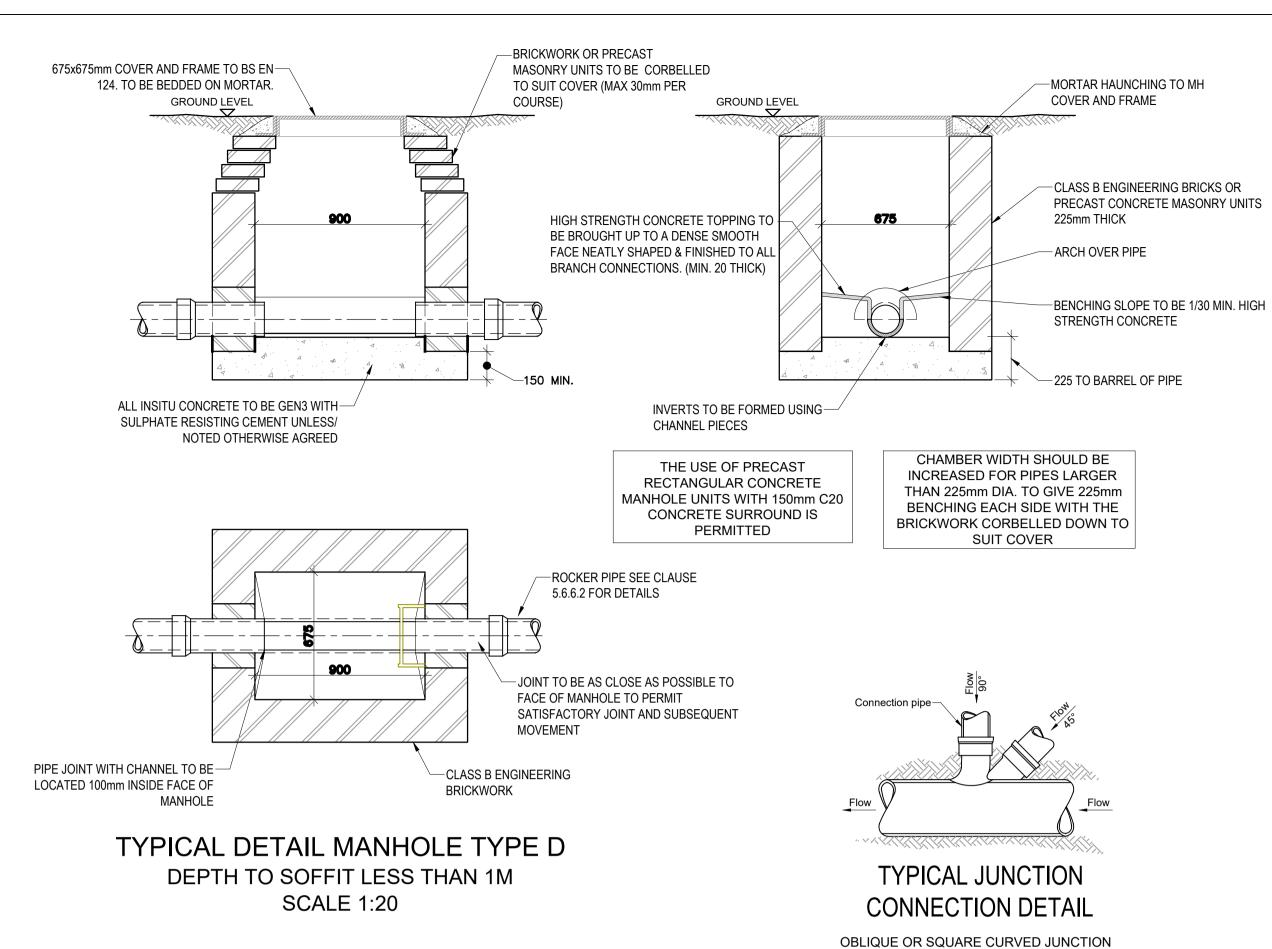
TYPE B MANHOLE DETAILS MAY BE APPLIED TO TYPE A MANHOLES FOR CHAMBER DIAMETERS LESS THAN 1500Ø UP TO 6.0m DEPTH TO SOFFIT

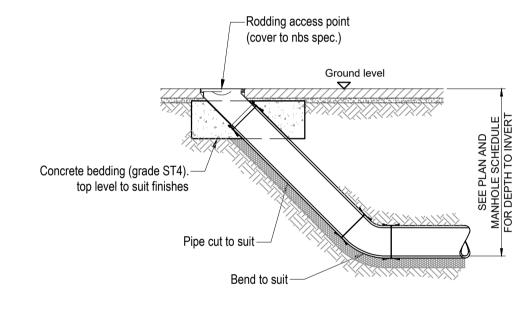
Manhole Depth (To Soffit)	Diameter of largest pipe in manhole (mm)	Internal diameter of manhole (mm)	Minimum Clear opening size
Less than 1500	150	1050	750x750
	300	1200	675x675 ECCENTRIC
	450	1350	675x675 ECCENTRIC
	700	1500	675x675
	900	1800	675x675
	1000	2100	675x675
	Greater than 1000	Refer to schedules	750x675
Greater than 1500	100 - 450	1200	600x600
	Greater than 450	Larger of 1800 or (DN+775)	600x600
	Greater than 1000	Refer to schedules	600x600
Manhole Shaft Greater than 3000	STEPS	1050	600x600
to soffit of pipe	LADDERS	1200	600x600

TABLE APPLICABLE TO MANHOLE TYPES A AND B CHAMBER SIZES ARE MINIMUM REQUIRED. SEE LAYOUT FOR VARIATIONS, IF ANY.

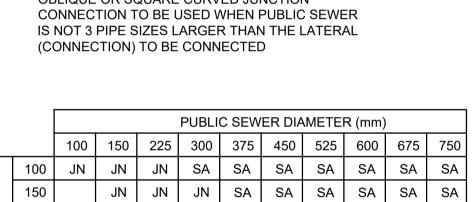


PRIVATE POLYPROPYLENE INSPECTION CHAMBER (PPIC) TYPE NON ENTRY INSPECTION BY WAVIN OSA TO BS 7158:2001 KITEMARKED

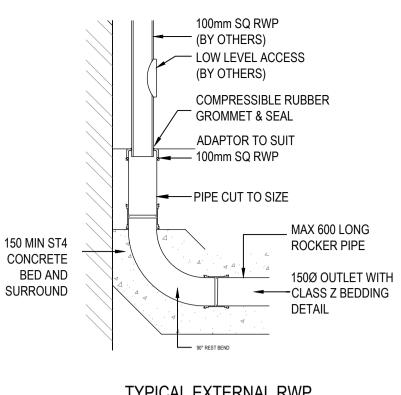




PRIVATE TYPICAL RODDING EYE DETAIL

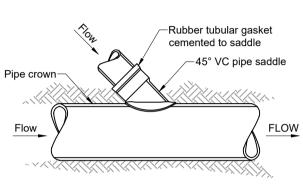


225 JN | JN | JN | SA | SA | SA | SA | JN JN JN SA SA SA 300 375 JN JN JN SA SA JN JN JN 450 JN = JUNCTION SA = SADDLE Gully cover and frame bedded on -



TYPICAL EXTERNAL RWP CONNECTION DETAIL

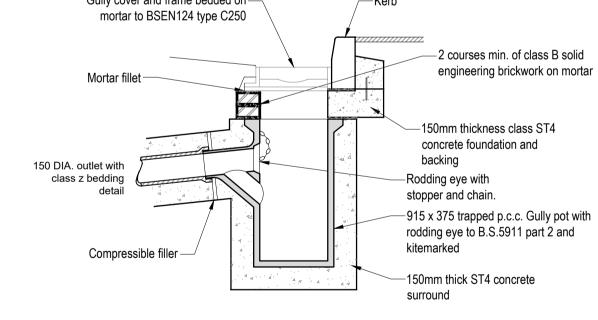
SCALE 1:10 (REFER TO PARAPET & RAINWATER SCUPPER LAYOUT/DETAILS FOR LOCATIONS)



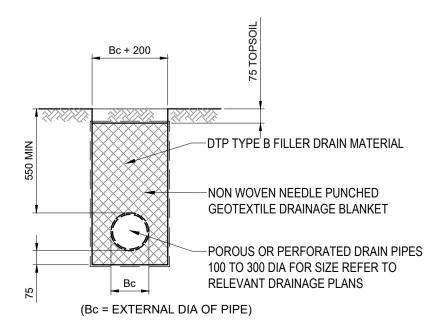
TYPICAL SADDLE **CONNECTION DETAIL**

SADDLE CONNECTION INTO PUBLIC SEWER IS ACCEPTABLE WHEN SEWER DIAMETER IS THREE INCREMENTS LARGER THAN CONNECTION DIAMETER. SADDLE CONNECTIONS MUST BE POSITIONED AT 10 O'CLOCK OR 2 O'CLOCK AND AT AN ANGLE OF 45°. SADDLES SHALL BE THE SAME MATERIAL AS EXISTING SEWER.

THE TABLE BELOW SHOWS IF A JUNCTION OR SADDLE MAY BE USED FOR VARIOUS PUBLIC SEWER AND LATERAL COMBINTIONS



PRIVATE TYPICAL ESTATE ROAD **GULLY**



FRENCH DRAIN

C01 Construction Issue Ø Initial issue 6 Killingbeck Cour Killingbeck Office Village Killingbeck Drive Leeds LS14 6FD Tel: 0113 249 741 www.avie-consulting.co.ul Elliott Off-Site Solutions Carnaby Manufacturing Site Improvements Proposed Drainage Details S.A.B. Mar 2021 1:20 FACT-AVE-ZZ-XX-DR-D-00002

This drawing is copyright and must not be copied in part or in whole unless agreed with

All dimensions & levels to be checked by the contractor prior to commencement of

All work shall be carried out in accordance with Local Authority, statutory authority.

The drawings shall be read in accordance with all other contract documents relevant

The contractor must ensure the overall stability of the works is adequate at all

No allowance has been made for cutouts, holes, notches, etc. for services. All of

work, any discrepancy shall be reported immediately to Avie Consulting Ltd

All dimensions are in millimetres unless noted otherwise

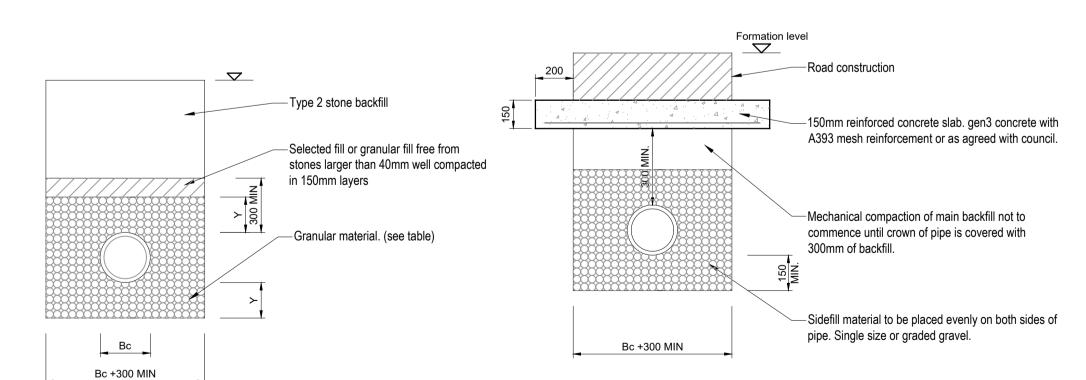
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health & safety requirements and regulations.

stages of the construction.

at that time of issue and during the period of the contract.

these are to be agreed prior to the start of the works.



CLASS S DETAIL

CLASS S DETAIL COVER < 1200mm FOR HIGHWAYS COVER < 900mm FOR NONE VEHICULAR ACCESS

NOMINAL PIPE DIA (mm)	SINGLE SIZED (mm)	GRADED (mm)
150 200 to 300 375 to 525 Greater than 525	10 or 14 10,14 or 20 14 or 20 14,20 or 40	14 to 5 14 to 5 or 20 to 5 14 to 5 or 20 to 5 14 to 5,20 to 5 or 40 to 5

GRANULAR BEDDING MATERIAL (ALL AGGREGATES TO TABLE 4 OF BS 882:1983)

NOTES A) Bc = OUTSIDE DIAMETER OF PIPE BARREL. B) Y = FOR UNIFORM SOILS:

SLEEVE JOINTED PIPES, MIN. 50mm OR 1/6 Bc, WHICHEVER IS THE SOCKETED PIPE, MIN. 100mm OR ⅙ Bc, WHICHEVER IS THE GREATER UNDER BARRELS AND NOT LESS THAN 50mm UNDER

FOR ROCK OR MIXED SOILS CONTAINING ROCK BANDS, BOULDERS, STONES OR OTHER IRREGULAR HARD SPOTS: SLEEVE JOINTED PIPES, MIN. 150mm OR 1/2 Bc, WHICHEVER IS THE SOCKETED PIPE, MIN. 200mm OR 1/4 Bc, WHICHEVER IS THE GREATER UNDER BARRELS AND NOT LESS THAN 150mm UNDER