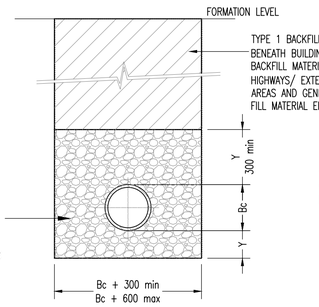


TO BE USED WHERE COVER TO PIPE IS:
1. LESS THAN 1.2m IN TRAFFICKED AREAS
2. LESS THAN 0.90m IN FIELDS
3. LESS THAN 0.6m IN LANDSCAPED AREAS
4. LESS THAN 0.3m BENEATH BUILDING SLABS

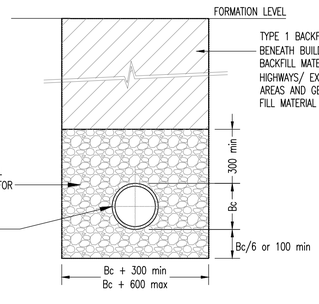
CLASS Z BEDDING DETAIL

Y VALUE:
HARD SPOTS/IRREGULAR TRENCH BOTTOM BC/4 (200mm MIN)
EVEN TRENCH BOTTOM BC/6 (100mm MIN)
BC = OUTSIDE PIPE DIAMETER



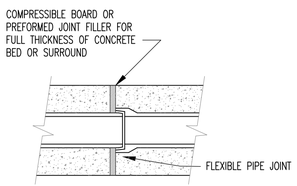
CLASS S BEDDING DETAIL

Y VALUE:
HARD SPOTS/IRREGULAR TRENCH BOTTOM BC/4 (200mm MIN)
EVEN TRENCH BOTTOM BC/6 (100mm MIN)
BC = OUTSIDE PIPE DIAMETER



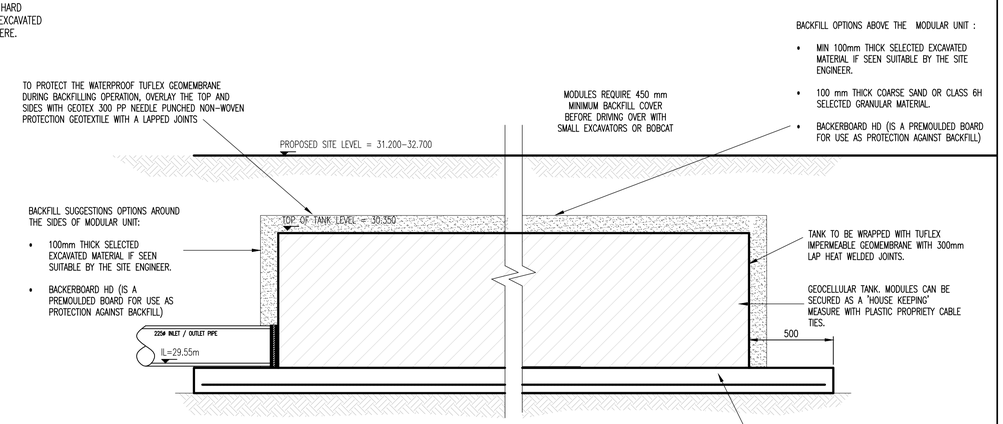
CLASS P/T/W BEDDING DETAIL

CLASS P 0.6m – 2.0m
CLASS T >2.0m
CLASS W BENEATH BUILDINGS
(FLEXIBLE PIPE CONSTRUCTION)



JOINTS FOR CONCRETE SURROUND TO PIPES

(AT EACH PIPE JOINT)



TYPICAL DETAILS OF ATTENUATION TANK BASED ON ALLDERBURGH PLUVIAL CUBE MODULE UNITS

INLET/OUTLET PIPES MUST BE SUPPORTED WITH CONCRETE TO PROTECT IT DURING BACKFILLING

THE CONTRACTOR SHALL PROHIBIT THE MOVEMENT OF CONSTRUCTION PLANT ACROSS THE STORAGE TANK AND WHERE NECESSARY PROVIDE ADDITIONAL SUPPORT AND PROTECTION TO THE STRUCTURE. PARTICULARLY POST CONSTRUCTION. TEMPORARY FENCING CAN BE USED TO PROHIBIT TRADE STOCKS, PILLING MATERIALS, HEAVY PLANTS ETC.,

BS EN 1610:1998 ANNEX B TABLE B.15 COARSE AGGREGATE – PIPE BEDDING							
SIEVE SIZE (mm)	PERCENTAGE BY MASS PASSING BS SIEVES FOR NOMINAL SIZES						
	GRADED AGGREGATE (mm)			SINGLE-SIZED AGGREGATE (mm)			
	40 to 5	20 to 5	14 to 5	40	20	14	10
50.0	100	-----	-----	100	-----	-----	-----
37.5	90 – 100	100	-----	85 – 100	100	-----	-----
20.0	35 – 70	90 – 100	100	0 – 25	85 – 100	100	-----
14.0	-----	-----	90 – 100	-----	-----	85 – 100	100
10.0	10 – 40	30 – 60	50 – 85	0 – 5	0 – 25	0 – 50	85 – 100
5.0	0 – 5	0 – 10	0 – 10	-----	0 – 5	0 – 10	0 – 25
2.36	-----	-----	-----	-----	-----	-----	0 – 5

RIGID PIPES BEDDING GRADING

FOR RIGID PIPES THE BEDDING SHOULD BE SINGLE SIZE MATERIAL OR GRADED MATERIAL FROM 5mm UP TO A MAX SIZE OF 10mm FOR 100mm PIPES; 14mm FOR 150mm PIPES; 20mm FOR 225mm TO 600mm PIPES; 40mm FOR OVER 600mm PIPES

BS EN 13242, COARSE AGGREGATE (CLAUSE 4.3.2)		
CATEGORY FOR GENERAL GRADING REQUIREMENTS	Gc80–20	
CATEGORY FOR TOLERANCES AT MID–SIZE SIEVES	GTnr (NO REQUIREMENTS)	
CATEGORY PF MAXIMUM VALUES OF FINES CONTENTS	GRAVEL – F1.5 CRUSHED ROCK, RECYCLED AGGREGATE – F4	
NOMINAL PIPE DIAMETER, mm	AGGREGATE SIZE, mm	
	GRADED	SINGLE SIZED
NOT EXCEEDING 140	–	4/10
EXCEEDING 140 BUT NOT EXCEEDING 400	2/14 or 4/20	4/10, 6/14 or 10/20
EXCEEDING 400	2/14, 4/20 or 4/40	4/10, 6/14, 10/20 or 20/40

FLEXIBLE PIPE BEDDING, HAUNCHING AND SURROUND MATERIAL

TRENCH WIDTHS

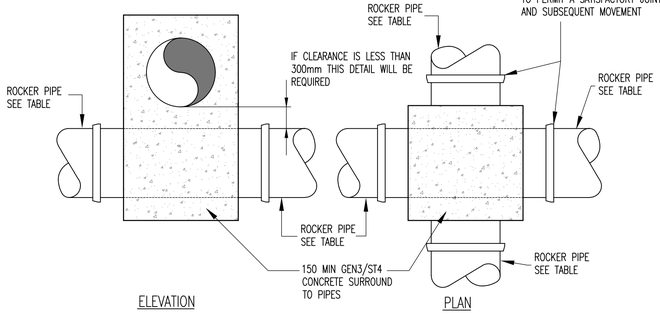
PIPE I.D	OVERALL TRENCH WIDTH
100	550
150	600
225	700
300	850
375	1050
450	1150
525	1200
600	1350
675	1450
750	1500
825	1600
900	1900
1050	2100
1200	2300
1350	2500
1500	2700
1800	3100

PIPE ø	JOINT THICKNESS
< 450	18mm
450 – 1200	36mm
>1200	54mm

COMPRESSIBLE FILLER TABLE

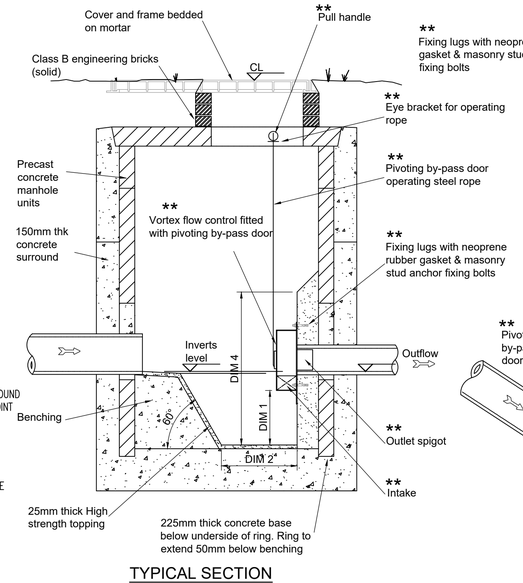
(BITUMEN IMPREGNATED INSULATING BOARD TO BS EN 622–1 AND BS EN 622–4)

NOMINAL DIA. (mm)	EFFECTIVE LENGTH (m)
150 to 600	0.6
675 to 750	1.0
825 & over	1.25



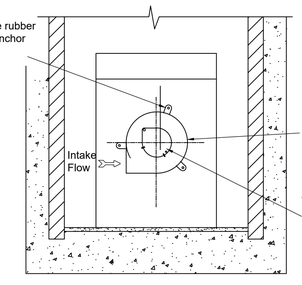
SPECIAL PIPE CROSSOVER DETAIL

REQUIRED IF CLEARANCE BETWEEN PIPES CROSSING EACH OTHER IS LESS THAN 300mm

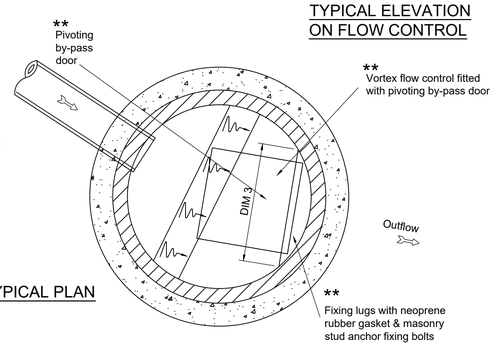


TYPICAL SECTION THRU MANHOLE

** By Vortex Flow Control supplier



TYPICAL ELEVATION ON FLOW CONTROL



TYPICAL PLAN

MH Ref	Invert Level	Design Head	Design Flow	Hydrobrake Ref	Dim 1	Dim 2	Dim 3	Dim 4	Min. MH Size
S1.06	29.025	1.5m	4.9 l/s	SHE-0097-4900-1500-4900	TBCmm	TBCmm	TBCmm	TBCmm	1500mm Ø

TYPICAL VORTEX FLOW CONTROL MANHOLE

NOT TO SCALE

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C01	08.09.23	CONSTRUCTION ISSUE	PG	JAS
P01	23.05.23	FIRST ISSUE	PG	JAS

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PLOT 10B
FIRST STREET

DRAWING TITLE
TYPICAL DRAINAGE DETAILS
SHEET 2

DRAWING No. Z1-ROC-G580-PL-XX-DR03
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