

Minimum Trench Width Pipes up to Ø100 BC+200 Pipes up to Ø600 BC+300 Pipes exceeding Ø600 BC+450

Maximum Trench Width 150 0.6 225 0.7

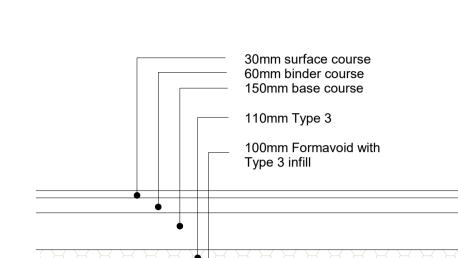
300 0.85

450 1.15 600 1.35

Class S granular bed and surround Cover >900mm in vehicular loading Cover >600mm in landscaped areas

Bedding Details

Nominal Pipe Size Dn	Pipe Bedding Requirement Size of Aggregate mm
150	10 or 14 nominal single size or 14 to 5 graded
225-525	10, 14 or 20 nominal size or 14 to 5 graded or 20 to 5 graded
>525	10, 14 ,20 or 40 nominal single crushed rock or 14 to 5 graded or 20 to 5 graded or 40 to 5 graded



—— Permavoidflex membrane

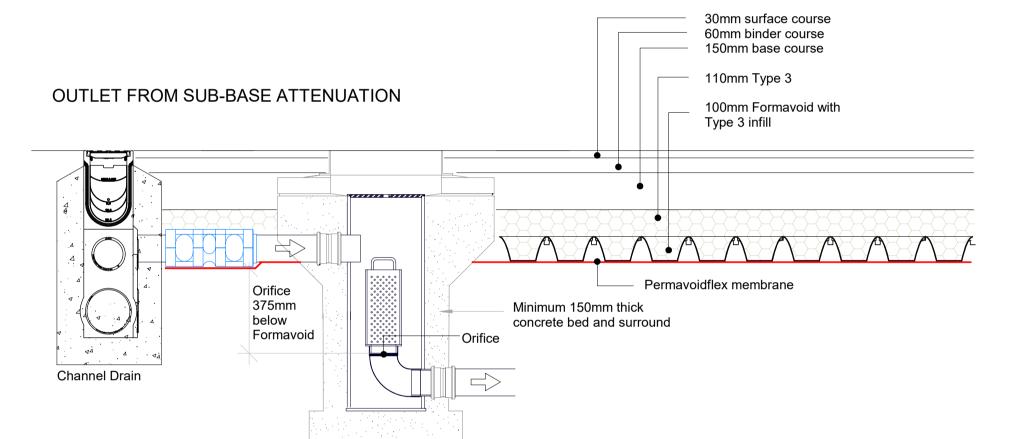
CHANNEL - NO KERB

TYPICAL PAVEMENT CONSTRUCTION

30mm surface course 60mm binder course 150mm base course ____ 110mm Type 3 INLET TO SUB-BASE ATTENUATION 100mm Formavoid with Type 3 infill — Permavoidflex membrane

Controflow SUDS01101 flow control chamber

Channel Drain



HB2 KERB AND CHANNEL

250mm thick, unless stated otherwise.

Sulphate resisting GEN3 concrete

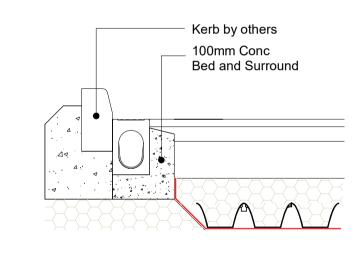
bed and surround with flexible joints

Any soft spots in trench formation shall

granular bedding material unless instructed

be replaced by an additional depth of

otherwise by the engineer.



INTERMEDIATE CHECK DAM

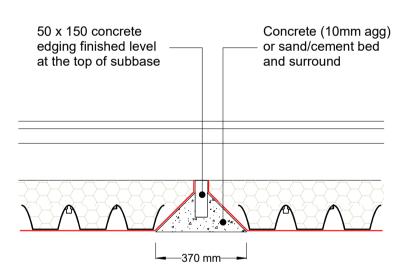
300 0.85 450 1.15

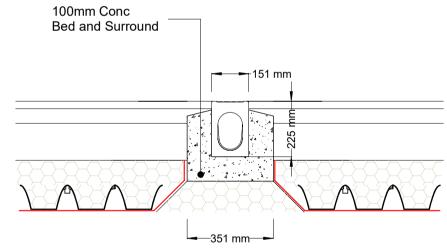
600 1.35

Class Z concrete bed and surround

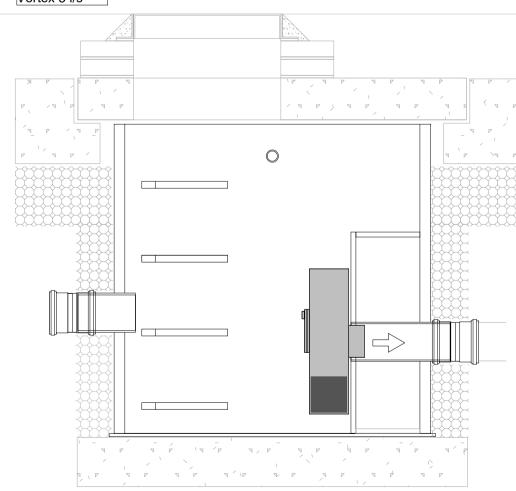
Cover <900mm in vehicular loading

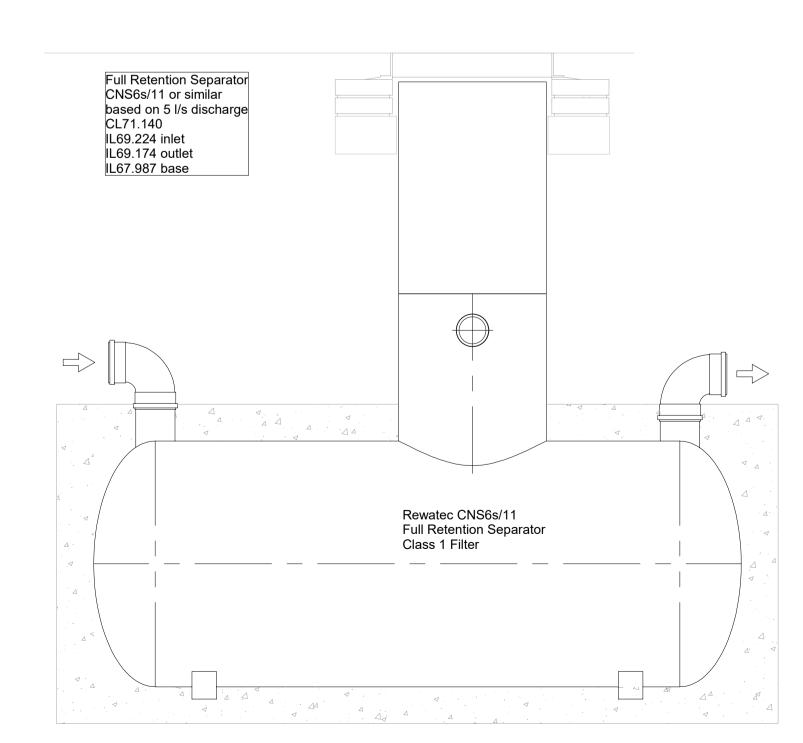
Cover <600mm in landscaped areas





SW VTX 1 CL 71.230 TBC IL 69.226 Vortex 5 l/s





Cover and frame to Engineers specification. 1-3 courses of solid Class B Mortar bedding and engineering bricks, using 3:1 haunching to cover cement sand mortar in English and frame. Bond or pre-cast raising pieces can be used, bedded on 3:1 Precast concrete slab or sand / cement mortar or stronger. GEN 3 concrete plinth c.300mm x 150mm Flexible seal to allow construction of Class B engineering brickwork. Ø350mm restricted access opening Minimum 150mm thick Type 1 granular surround. Ø50mm lifting eye 3nr in total Connection to pipework Ø110mm to Ø250mm achieved using standard spigots for pipe push-fit coupling or connections adjustable flexible coupling 300mm deep sump 150mm thick GEN 3 concrete base WASP05050 Series Prefabricated Catchpit Chamber Ø500 up to 2.5m deep chamber

By SEL Environmental Tel: 01254 589987

NOTES

GENERAL

This drawing is to be read in conjunction with all relevant Engineers and Architects drawings.

For setting out refer to Architects drawings.

All dimensions are in millimetres and levels are in metres unless noted otherwise.

Contractor to take all relevant dimensions on site.

Any discrepancies to be advised to the Engineer.

Contractor to check/scan for services prior to construction to avoid any damage during

DRAINAGE

Any information given on this drawing regarding existing services is believed to be

The contractor must check this information and determine the nature and location of other existing services from the various statutory authorities before commencing excavation works.

Drainage works to be constructed in accordance with BS EN 752 and Approved Document H.

All soft spots and unacceptable material encountered in drainage excavations is to be removed and replaced with granular material to the requirements of the building control

Pipes to be installed to manufacturers recommendations.

Pipes under buildings to be laid to a fall of 1:40 minimum unless noted otherwise.

Plastic plain wall pipes to be PVC-U to BS EN 1401-1, class SN4, with flexible joints, Kitemark certified. Structured wall plastic pipes to be to WIS 04-35-01, Kitemark certified

Clay pipes to be vitrified clay to BS EN 295-1, with flexible joints, Kitemark certified. Clayware pipes must be extra strength classification protected in accordance with the specified details.

Bedding of pipes to be in accordance with approved document H1.

Rocker pipes with flexible joints are to be provided at a distance of 150mm and 750mm from the face of construction to manholes, where pipes pass above, below or through ground beams or foundations; at gully connections and soil stack ends.

Manhole access covers are to be located at the outgoing side of manholes.

Cover levels are to be fixed on site to suit finished levels. Covers and frames to BS EN124, Grade D to be used in areas subject to heavy vehicular loading, Grade C in areas subject to light vehicular loading and Grade B to be used elsewhere.

C02 C01 P02 P01	Channel details added Construction Issue Drawing number corrected First issue	27/06/2023 25/05/2023 03/01/2022 22/12/2022	MG MG	A JI A
C01	Construction Issue	25/05/2023	MG	J
C02	Channel details added	27/06/2023	MG	A
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PROJECT

North Manchester General Hospital

Car Park 26

Surface Water Drainage Details 1

	S4	For Construction				
	DRAWN BY MG		CHECKED BY ABS		DATE 20/12/2022	
	SCALE (@A1)			PROJECT	NUMBER	

20200 Car Park 26 FILE DRAWING NUMBER

PURPOSE OF ISSUE

REV. C02 20200-SEL-NM110-XX-DR-Y-0053