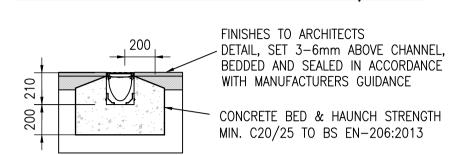
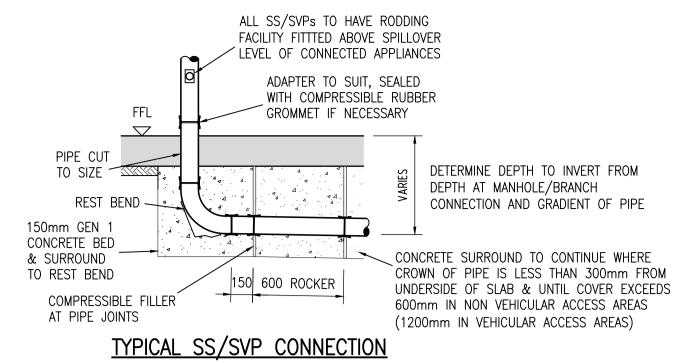
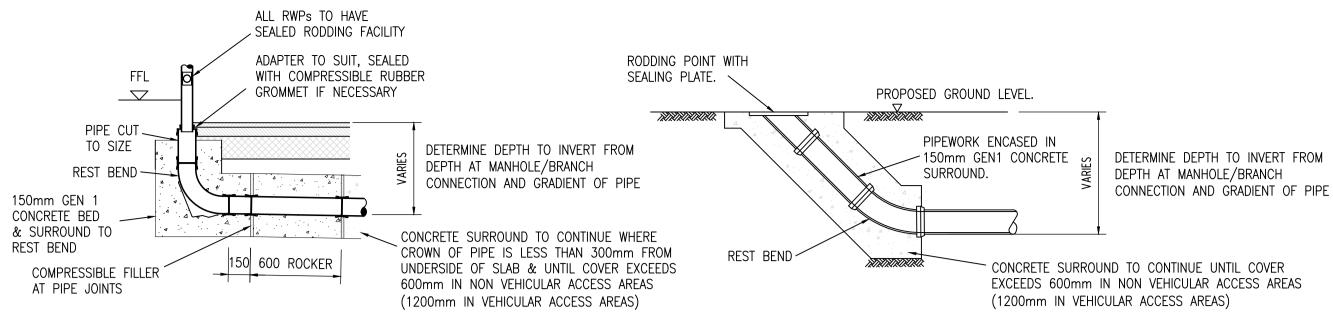


#### TYPICAL ACO MULTIDRAIN M150D 0.0J DETAIL WITH GRATING TO LOAD CLASS B125/C250.

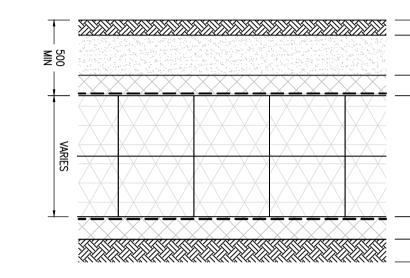


#### TYPICAL ACO MULTIDRAIN M150D 0.0J DETAIL WITH GRATING TO LOAD CLASS D400.





EXTERNAL RODDING EYE DETAIL TYPICAL RWP CONNECTION



LANDSCAPING TO ARCHITECTS DETAILS

150mm MIN. DOT TYPE 1

WELL COMPACTED BACKFILL, NO LUMPS OF CLAY OR

STONE OVER 40mm (IF SUITABLE) OR DOT TYPE 1

CELLULAR ATTENUATION CRATES WITH PERFORATED

PIPE RUNNING THROUGH BASE, TANK WRAPPED IN

NON-WOVEN GEOTEXTILE (INNER) AND FULLY

WELDED IMPERMEABLE GEOMEMBRANE (OUTER).

INSTALLED TO FULL MANUFACTURER'S DETAILS.

150mm WELL COMPACTED D.O.T TYPE 1.

EXISTING GROUND PROOF-ROLLED.

**BUILD UP ABOVE ATTENUATION CRATES** UNDER SOFT LANDSCAPING

COVER TO SOFFIT TO SUIT VEHICLE LOADING COVER SLAB MAY BE REQUIRED. 

UNDER HARD LANDSCAPING

—Ø160ММ BS EN 1401-1

FLANGE ADAPTOR

-GEOSYNTHETIC SEALED TO

ADAPTER FLANGE

POLYSTORM STRUCTURE

-GEOMEMBRANE

**ENCAPSULATING** 

COMPACTED IN MAX 150mm LAYERS. CELLULAR ATTENUATION CRATES WITH PERFORATED PIPE RUNNING THROUGH BASE. TANK WRAPPED IN NON-WOVEN GEOTEXTILE (INNER) AND FULLY WELDED IMPERMEABLE GEOMEMBRANE (OUTER) INSTALLED TO FULL MANUFACTURER'S DETAILS.

, CAST-IN PIPE

MAX. 600mm

ROCKER PIPE

BUILD UP TO EXTERNAL WORKS DETAILS

DOT TYPE 1 ABOVE TANK TO UNDERSIDE

OF PROPOSED EXTERNAL WORKS BUILD UP

150mm WELL COMPACTED D.O.T TYPE 1. EXISTING GROUND PROOF-ROLLED.

STRUCTURE

WIDTH

4 4 4

PLAN SHOWING PIPE PENETRATION

THROUGH STRUCTURE (ROCKER OPTION)

MAX.

150

FLEXIBLE CONNECTION WITHIN

150mm OF FACE OF STRUCTURE

MAX. 600mm

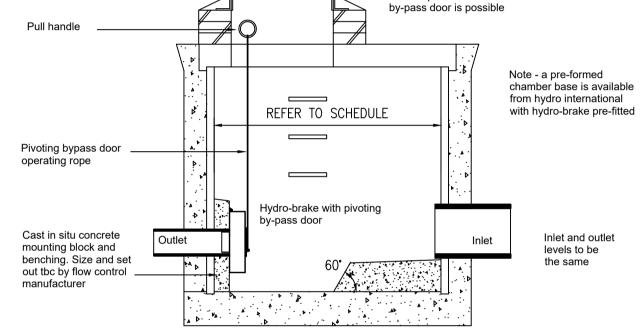
ROCKER PIPE

MAX.

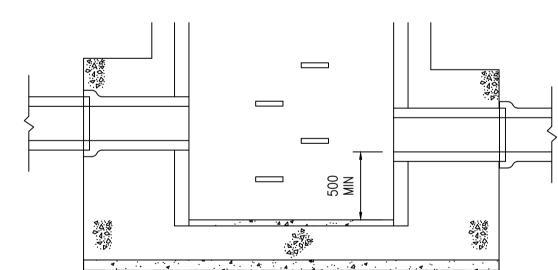
150

**BUILD UP ABOVE ATTENUATION CRATES** 

# Access positioned above by-pass door is possible



### TYPICAL CATCHPIT MANHOLE DETAIL



• UNDER HARD LANDSCAPING/BUILDING

CLASS 8 MATERIAL TO S.H.W CLAUSE

GRANULAR MATERIAL TO S.H.W.

GEN 1 OR ST 2

505 OF S.H.W.

CONCRETE TO S.H.W.

CLAUSE 503.3 (iii).

ALL DIMENSIONS ARE IN MILLIMETRES.

DIMENSION X IS THE EXTERNAL PIPE DIAMETER.

THE MIN/MAX WIDTH OF TRENCH APPLIES ON &

BELOW A LINE 300mm ABOVE THE TOP OF THE

CONCRETE SURROUND MAY EXTEND TO SIDES OF

150mm COVER AT EACH SIDE OF THE PIPE.

• UNTIL THERE IS 300mm COVER OVER CROWN OF

BY HAND IN 100mm THICK LAYERS.

TRENCH OR BE OF MINIMUM WIDTH TO PROVIDE

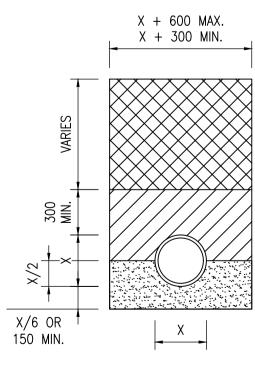
PIPE, COMPACT GRANULAR & BACKFILL MATERIAL

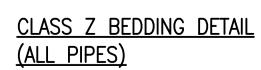
PIPE. ABOVE THE 300mm LINE TRENCH BACKFILL MATERIAL SHALL BE AS DESCRIBED IN CLAUSE

CLAUSE 503.3 (i). SEE TABLE 5/3.

SLAB - DOT TYPE 1.



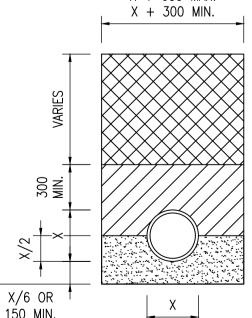




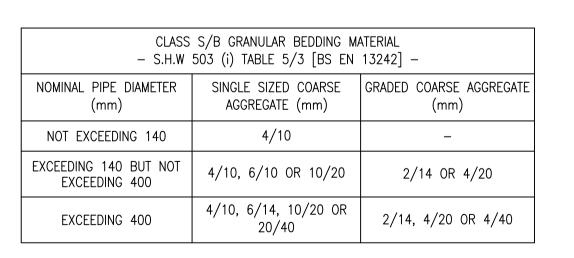
X + 600 MAX.

X + 300 MIN.

PIPE IS LESS THAN 600mm IN NON-TRAFFICKED AREAS AND LESS THAN 1200mm IN AREAS WITH VEHICULAR ACCESS. MIN. 18mm COMPRESSIBLE BOARD AT ALL PIPE JOINTS



CLASS B BEDDING DETAIL (CLAY/CONCRETE ONLY) FOR USE WHEN COVER TO SOFFIT OF PIPE IS GREATER THAN 600mm IN



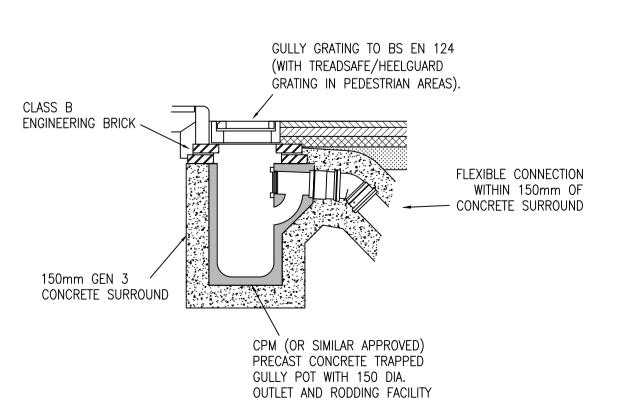
TYPICAL TANK VENTILATION DETAIL

VENTED ACCESS COVER \_ SCREWED ACCESS CAP

Ø160MM

BS-EN-1401-1

CLASS Z COMPRESSIB	CLASS Z COMPRESSIBLE FILLER BOARD DETAILS						
NOMINAL PIPE DIAMETER (mm)	THICKNESS OF COMPRESSIBLE FILLER (mm)						
LESS THAN 450	18						
450 – 1200	36						
GREATER THAN 1200	54						



<b>TYPICAL</b>	PRECA	ST COI	<b>NCRETE</b>
ROAD G	ULLY DI	ETAIL	

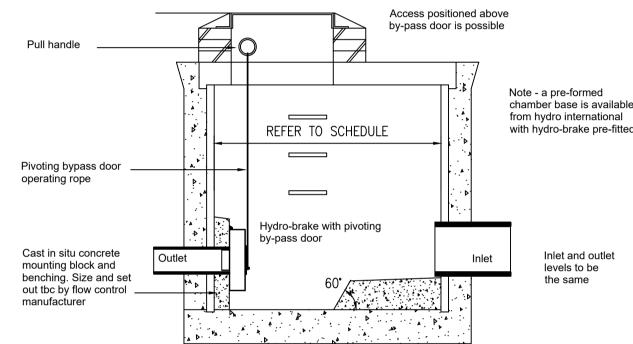
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P1	06/07/23	PRELIMINARY ISSUE OJ					
Rev	Date	Comment By Che					
Stat	sus Code S3	FOR APPROVAL	-				
Tł	nis drawing m	ay only be used for construction/manufacture if status is CONSTRUC	TION				
Consulting Structural/Civil Engineers  London 20 Britton Street, London, EC1M 5TX tel: 020 7490 4353 fax: 020 7490 4354 e-mail: info@furnesspartnership.com							
e-mail: info@furnesspartnership.com  ■ Bradford The Paper Hall, Anne Gate, Bradford, BD1 4EQ							
		tel: 01274 392092 e-mail: mail@furnesspartnership.com					
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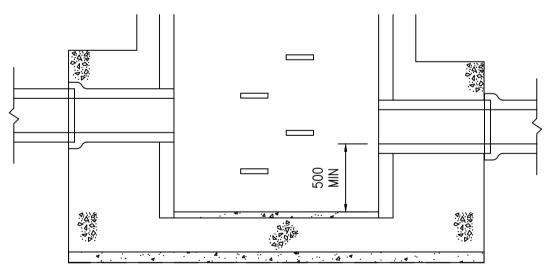
PROPOSED FOUL WATER					
FROFOSED FOOL WATER					
DRAINAGE LAYOUT					
DRAINAGE LA I OU I					

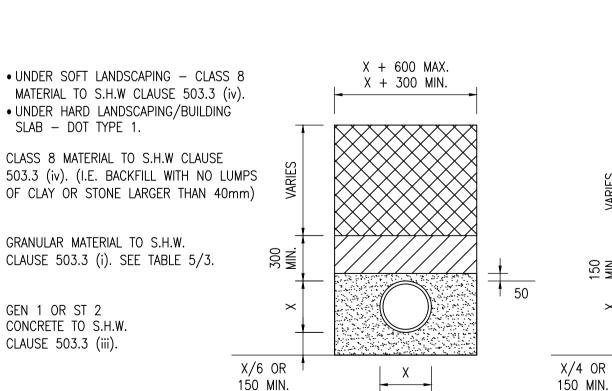
Drawing Title

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PROJECT	ECT OPERATOR		ZONE / VOLUME	LEVEL / LOCATION	FILE TYP	TYPE ROLE		SHEET No.		Rev.
L2762 FU		IR	XX	XX	DR		D	09	32	P2

#### TYPICAL HYDROBRAKE MANHOLE DETAIL REFER TO HYDRO INTERNATIONAL DRAWINGS FOR SITE SPECIFIC DETAILS







## CLASS S BEDDING DETAIL (uPVC/FLEXIBLE PIPES)

FOR USE WHEN COVER TO SOFFIT OF PIPE IS GREATER THAN 600mm IN NON-TRAFFICKED AREAS AND GREATER THAN 1200mm IN AREAS WITH VEHICULAR ACCESS.

FOR USE WHEN COVER TO SOFFIT OF

NON-TRAFFICKED AREAS AND GREATER THAN 1200mm IN AREAS WITH VEHICULAR ACCESS.