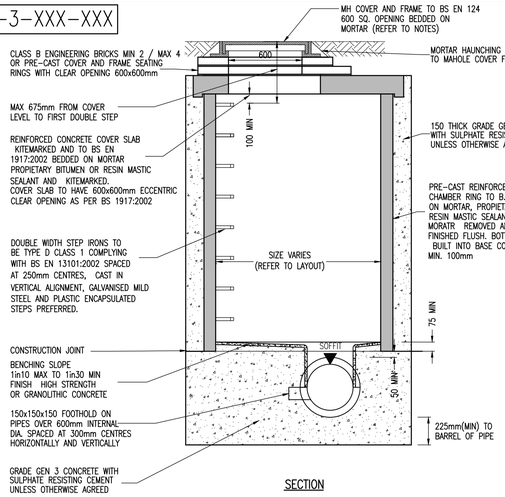
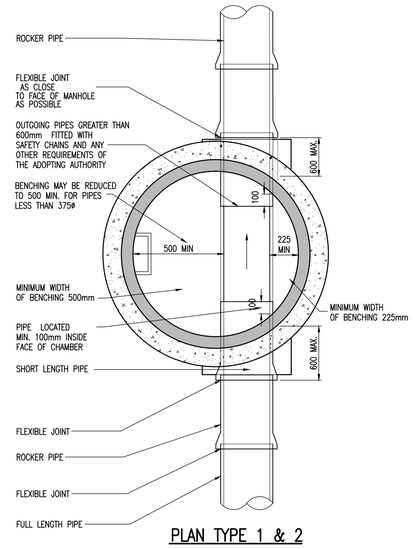
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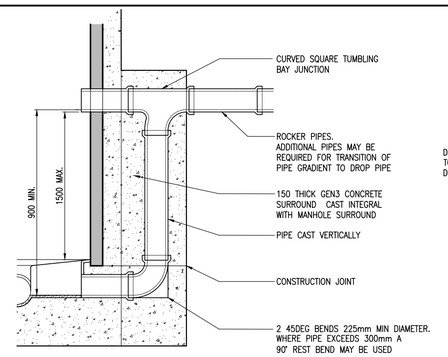
SECTION

TYPICAL MANHOLE DETAIL – TYPE 2
DEPTH TO SOFFIT OF PIPE 1200 TO 3000

(NTS)

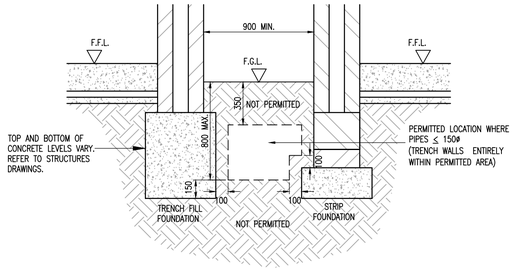


PLAN TYPE 1 & 2



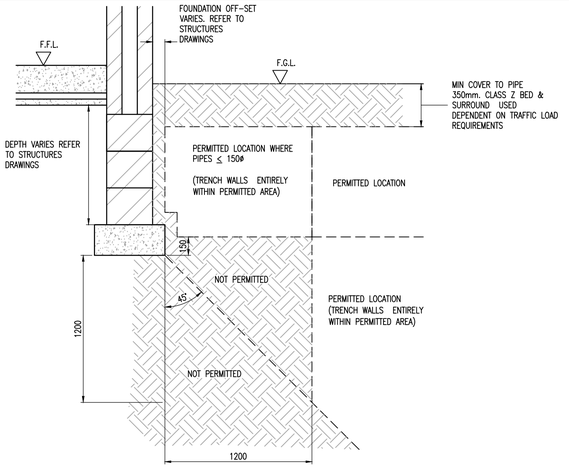
TYPICAL VERTICAL BACKDROP DETAIL

(SCALE 1:20)



PERMITTED LOCATION OF SEWERS AND LATERAL DRAINS BETWEEN BUILDINGS

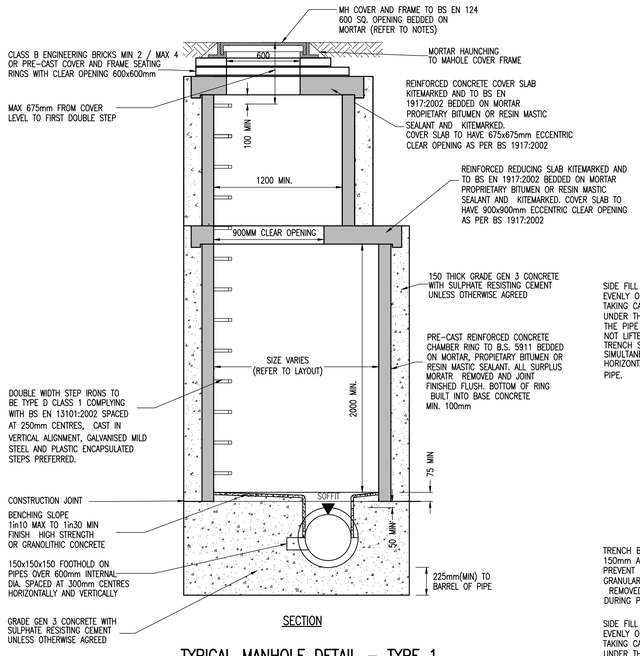
(SCALE 1:20)



PERMITTED LOCATION OF SEWERS AND LATERAL DRAINS IN PROXIMITY TO BUILDING

(SCALE 1:20)

WHERE B125 COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW COVERS ARE NOT ACCEPTABLE.



SECTION

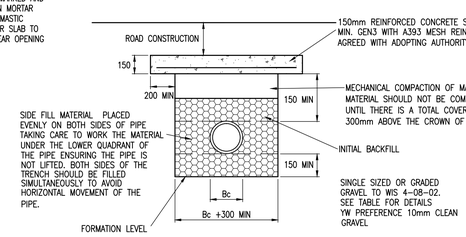
TYPICAL MANHOLE DETAIL – TYPE 1
DEPTH TO SOFFIT OF PIPE 3000 TO 6000

(NTS)

TABLE 1.

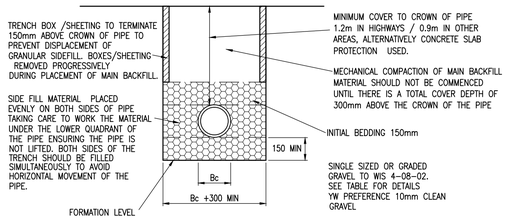
NOMINAL SIZE	EFFECTIVE LENGTH (mm)
100 AND BELOW	300
150 TO 600	600
675 TO 675	1000
825 AND ABOVE	1250

SHORT AND ROCKER PIPE LENGTHS TABLE APPLICABLE TO ALL MANHOLE TYPES



CONCRETE PROTECTION SLAB TO PIPES AT DEPTHS OF COVER LESS THAN 1.2m IN HIGHWAYS

(REFER TO NOTES)



TYPICAL SEWER INSTALLATION WITH CLASS 'S' BED AND SURROUND

(REFER TO NOTES)

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

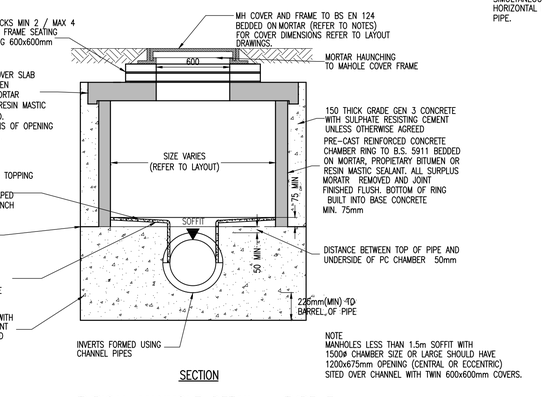
(ALL AGGREGATES TO TABLE 4 OF BS 882 :1983.)

NOTES

A) Bc = OUTSIDE DIAMETER OF PIPE BARREL.

TABLE 2. TYPE E MANHOLE COVER SLAB OPENING DIMENSIONS

CHAMBER/SHAFT SIZE (mm)	MANHOLELESS LESS THAN 1.5m TO SOFFIT	MANHOLE DEPTH GREATER THAN OR EQUAL TO 1.5m TO PIPE SOFFIT
1200 1500 1800–3000	675 x 675 ECCENTRIC 1200 x 675 CENTRAL 1200 x 675 ECCENTRIC	675 x 675 ECCENTRIC 675 x 675 ECCENTRIC 675 x 675 ECCENTRIC



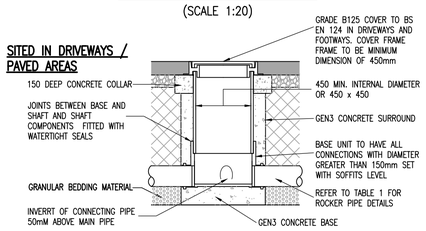
SECTION

NOTE
MANHOLES LESS THAN 1.5m SOFFIT WITH 1500ø CHAMBER SIZE OR LARGE SHOULD HAVE 1200x675mm OPENING (CENTRAL OR ECCENTRIC) SITED OVER CHANNEL WITH TWIN 600x600mm COVERS.

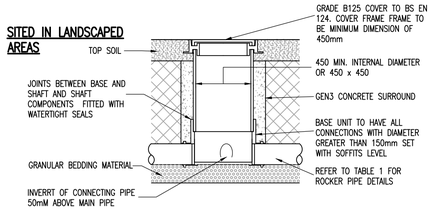
TYPICAL MANHOLE DETAIL – TYPE E
DEPTH TO SOFFIT OF PIPE LESS THAN 1500

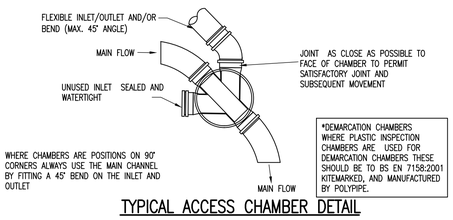
(NTS)

SITED IN DRIVEWAYS / PAVED AREAS



SITED IN LANDSCAPED AREAS

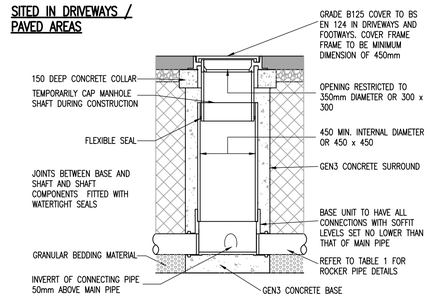




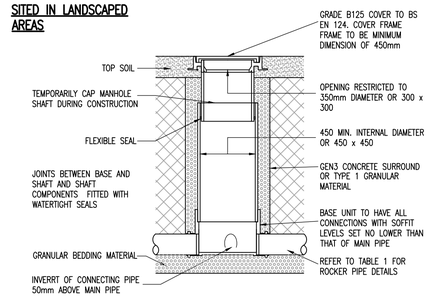
TYPICAL ACCESS CHAMBER DETAIL
MAX. DEPTH FROM COVER LEVEL TO SOFFIT 1.0m, NON–ENTRY SITUATED IN LIGHT TRAFFICKED AREAS

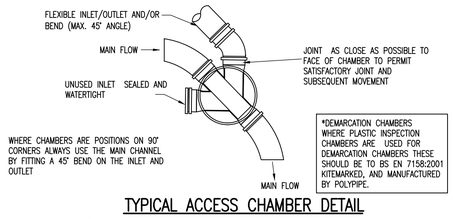
(SCALE 1:20)

SITED IN DRIVEWAYS / PAVED AREAS



SITED IN LANDSCAPED AREAS





TYPICAL ACCESS CHAMBER DETAIL
MAX. DEPTH FROM COVER LEVEL TO SOFFIT 2.0m, NON–ENTRY SITUATED IN LIGHT TRAFFICKED AREAS

(SCALE 1:20)

DO NOT SCALE

ADOPTABLE SEWER WORKS NOTES

1. ALL ADOPTABLE SEWER WORKS AND MATERIALS IN ACCORDANCE WITH 'SEWERS FOR ADOPTIONS' 6TH EDITION, RELEVANT BRITISH/EUROPEAN STANDARDS AND YORKSHIRE WATER'S STANDARDS / REQUIREMENTS / ADDENDUM TO MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.
2. MANHOLE COVERS SHALL/ MUST HAVE A CLEAR OPENING OF 600mm UNLESS SPECIFIED OTHERWISE AND CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
3. WHERE B125 COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COASTED IN PLASTIC AND MUST HAVE LIFTING EYES SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE NOT ACCEPTABLE.
4. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF THE YORKSHIRE WATER BEFORE ANY SEWER WORKS CARRIED OUT.
5. YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAIN / LAND DRAINAGE RUN-OFF INTO THE PUBLIC SEWER OR ADOPTABLE DRAINAGE SYSTEM (DIRECTLY OR INDIRECTLY), AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUN-OFF WILL THEREFORE BE REQUIRED THROUGH LIAISON WITH THE LOCAL AUTHORITY / LAND DRAINAGE SECTION WITH REGARD TO THE DISPOSAL OF FILTER DRAIN / LAND DRAINAGE RUN-OFF.
6. COVER SLABS MUST BE BSI KITEMARKED OR WILL BE REJECTED BY THE YORKSHIRE WATER INSPECTOR. WHERE THE CLEAR OPENING OF THE KITEMARKED PRODUCT IS DIFFERENT TO THAT OF THE COVER FRAME, A LOAD BEARING SLAB SHOULD BE FITTED ABOVE THE COVER SLAB TO BRING DOWN THE SIZE TO 600 x 600mm FOR THE YORKSHIRE WATER SPECIFIED COVER SIZE. PLEASE REFER TO CONCRETE PIPE SYSTEMS ASSOCIATION (CPSA) 'TECHNICAL BULLETIN' ISSUED AUTUMN 2004 FOR KITEMARKED COVER SLAB OPENING SIZES.
7. SULPHATE RESISTANT CEMENT (C20–DC2) AND PRE–CAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
8. ADOPTABLE SEWERS MUST BE A MINIMUM OF 1.0m AND MANHOLES A MINIMUM OF 0.5m FROM KERB FACES AND SERVICE MARGINS.
9. SEWERS MUST HAVE 5.0m CLEARANCE FROM TREES AND HEDGES (PLEASE REFER TO FIGURE 2.3 IN SEWERS FOR ADOPTION 6TH EDITION FOR RESTRICTIONS ON TREE PLANTING ADJACENT TO SEWERS'
10. SEWERS LAID IN CLASS S BEDDING (150mm GRANULAR BED AND SURROUND). WHERE DEPTH TO TOP OF SEWER IS LESS THAN 1.2m IN HIGHWAYS AND VERGES (OR LESS THAN 0.9m IN NONE VEHICULAR ACCESS AREAS) THEN A CONCRETE SLAB SHOULD BE PROVIDED ABOVE GRANULAR BED AND SURROUND.
11. BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4–08–02 (TABLE A2)
12. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
13. YORKSHIRE WATER POLICY IS TO NOT ACCEPT TYPE C BRICK MANHOLES OR 1050mm RINGS. TYPE B MANHOLES WITH 1200 OR 1500mm RINGS ADOPTED WITH OPENING SITED OVER CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1.0 – 1.5m.

REV	DATE	BY	DESCRIPTION	CHK	APP
A	13.07.2018	MW	ISSUED TO YW FOR S104 TECHNICAL APPROVAL	PV	NS

DRAWING STATUS:
S3 - FOR REVIEW

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ARCHITECT:
ACANTHUS WSM ARCHITECTS

SITE/PROJECT:
ST CATHERINES WALK, BARNSLEY
RESIDENTIAL DEVELOPMENT

TITLE:
ADOPTABLE DRAINAGE
STANDARD DETAILS

SCALE @ A1:	CHECKED:	APPROVED:
AS SHOWN	DV	NS

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70042416	MW	MW	July 18

DRAWING No: 70042416-S104-004 REV: P01

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File name \\UK\WSPGROUP.COM\CENTRAL DATA\PROJECTS\70042XXX\70042416 - ST CATHERINES WALK - BARNSLEY\02 WIP\CV CIVIL ENGINEERING\02 DRAWING\ACAD\70042416-S104-004.DWG, printed on 12 JAN 2018 15:59:18, by Vallis, Dwayka