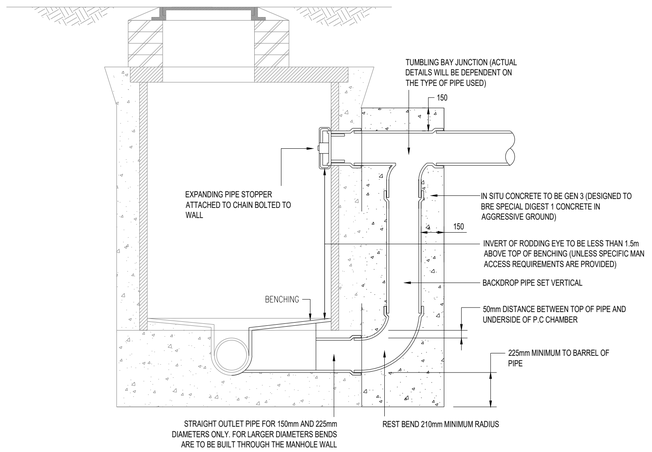
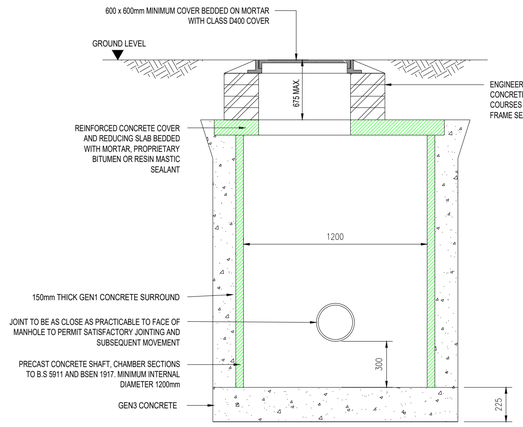


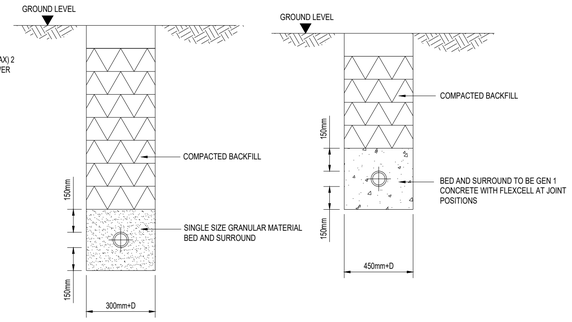
BACKDROP CONSTRUCTION

(1:20)



CATCHPIT TO INVERT 0.9m TO 2.7m.

(1:20)



CLASS S GRANULAR BEDDING DETAIL.

(WHERE COVER >900mm)

(1:20)

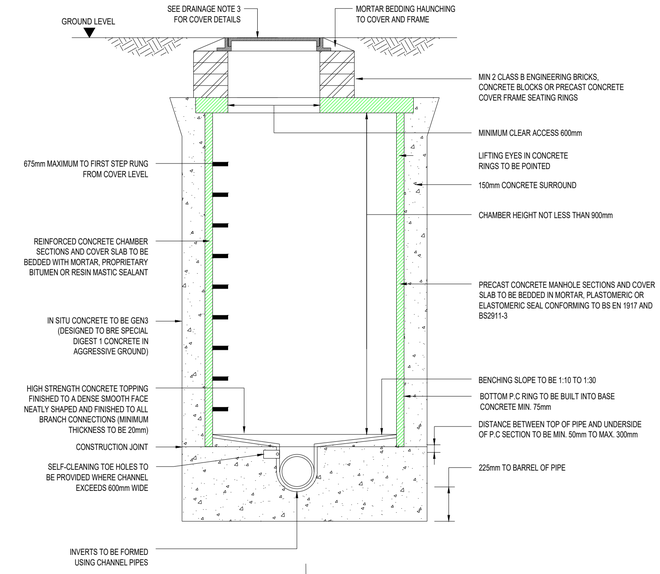
CONCRETE BEDDING DETAIL.

(WHERE COVER <900mm)

(1:20)

NOTE

ALL BACKFILLING AND REINSTATEMENT WITHIN ROADS AND STREETS TO BE IN ACCORDANCE WITH THE HIGHWAY AUTHORITY AND HAUC SPECIFICATION.

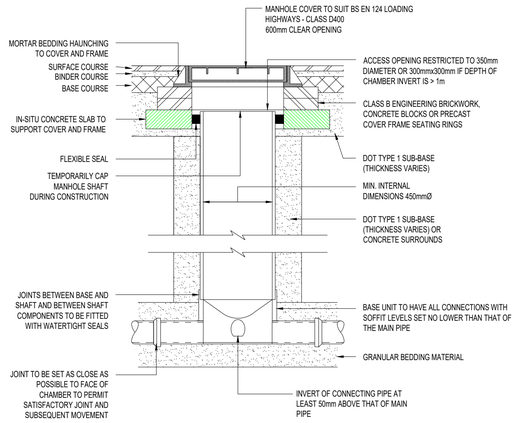


TYPE 2 MANHOLE.

(DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE LESS THAN 3.0m)

(1:20)

TABLE 2	
NOMINAL DIAMETER (mm)	EFFECTIVE LENGTH OF ROCKER PIPE (m)
150 TO 600	0.6
>600 TO 750	1.0
>750	1.2



ALTERNATIVE BASE INVERT LAYOUTS
ALL CONNECTIONS TO BE MIN. SOFFIT TO SOFFIT

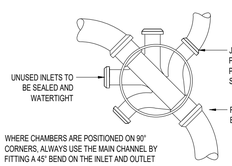


TABLE 1	
NOMINAL DIAMETER (mm)	EFFECTIVE LENGTH OF ROCKER PIPE (m)
150 TO 600	0.6
>600 TO 750	1.0
>750	1.2

TYPE 3 ACCESS CHAMBER - FLEXIBLE MATERIAL.

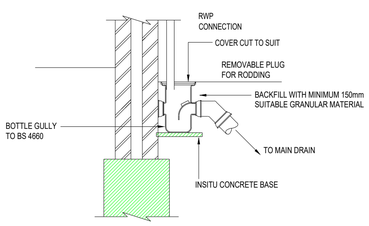
(SUBJECT TO VEHICLE LOADING, MAX. DEPTH 3m, NON-ENTRY)

(1:20)

TYPE 3&4 CHAMBER TYPES, SIZES AND DEPTH

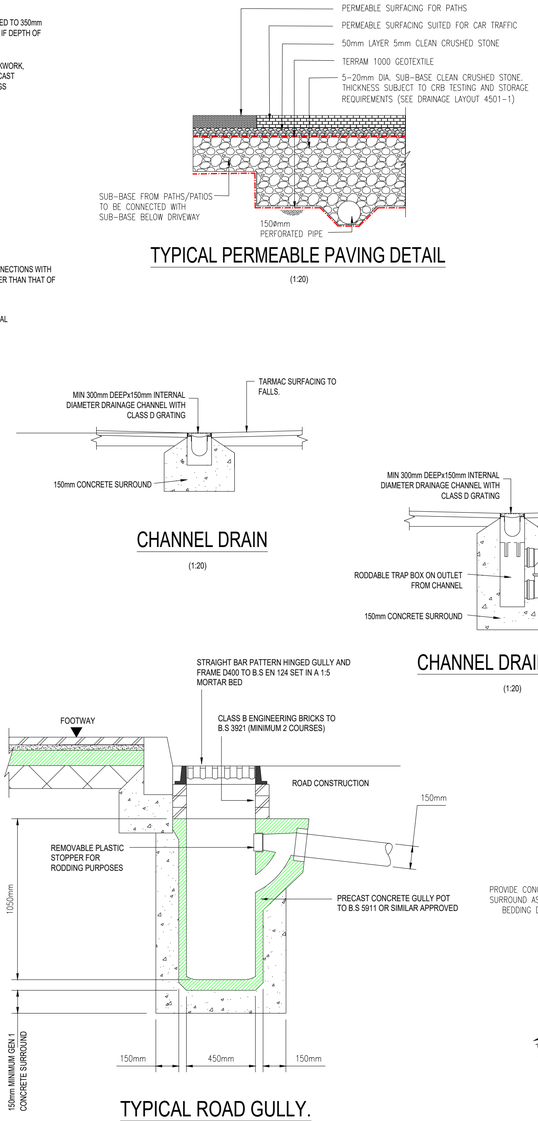
BASE/SHAFT DIA (mm)	200	315	450	600
SFA7 TYPE	4	4	3 – 4	3 – 4
NO OF INLETS 1	Y	Y	Y	Y
1 TO 3	-	Y	Y	Y
4 TO 5	–	–	Y	Y
INLET SIZES (mm)	110/160	110/160	110/160	150/225/300
MAX DEPTH(mm)	600	600	1200	3000

FOR DEPTH GREATER THAN 1200mm RESTRICT ACCESS TO 450mm DIAMETER



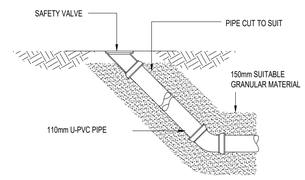
TRAPPED RWP CONNECTION.

(1:20)



TYPICAL PERMEABLE PAVING DETAIL

(1:20)



RODDING EYE DETAIL.

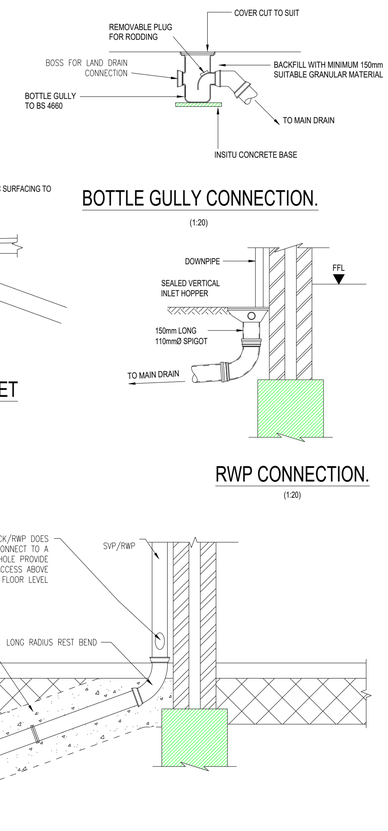
(1:20)

CHANNEL DRAIN

(1:20)

CHANNEL DRAIN OUTLET

(1:20)



BOTTLE GULLY CONNECTION.

(1:20)

RWP CONNECTION.

(1:20)

TYPICAL ROAD GULLY.

(1:20)

SVP/RWP CONNECTION

(1:20)

1. GENERAL
(i) THIS DRAWING IS NOT TO BE SCALED, WORK TO FIGURED DIMENSIONS ONLY, CONFIRMED ON SITE.
(ii) THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL DRAWINGS, DETAILED SPECIFICATIONS WHERE APPLICABLE AND ALL ASSOCIATED DRAWINGS IN THIS SERIES.
(iii) ANY DISCREPANCY ON THIS DRAWING IS TO BE REPORTED IMMEDIATELY TO THE PARTNERSHIP FOR CLARIFICATION.
(iv) THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY WORKS AND FOR THE STABILITY OF THE WORKS IN PROGRESS.
2. DRAINAGE GENERAL
(i) ALL FOUL AND STORM WATER DRAINS WHICH ARE NOT TO BE ADOPTED AS PUBLIC SEWERS UNDER A SECTION 104 AGREEMENT MUST BE CONSTRUCTED IN ACCORDANCE WITH THE BUILDING REGULATIONS, BS EN 752 AND WHERE APPROPRIATE THE RELEVANT AGREEMENT CERTIFICATES.
(ii) MANHOLES, GULLIES, GULLY CONNECTIONS, SEWERS AND OTHER SEWERAGE STRUCTURES INTENDED TO CONVEY SURFACE WATER ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE WATER AUTHORITIES ASSOCIATION SPECIFICATION 'SEWERS FOR ADOPTION' 7TH EDITION AND RELEVANT COUNCIL DESIGN GUIDE.
(iii) ALL CONCRETE USED IN DRAINAGE WORKS TO COMPLY WITH BRE DIGEST 363 FOR CLASS 2 SULPHATE CONDITIONS.
3. MANHOLE COVERS AND FRAMES
(i) MANHOLE COVERS TO BE CLASS D400 IN HIGHWAYS, CLASS B125 IN FOOTWAYS AND VERGES, CLASS A15 IN NON-TRAFFICKED AREAS.
(ii) MANHOLE COVER AND FRAME TO BE BEDDED AND SURROUNDED IN 1:3 MORTAR.
4. MANHOLE RINGS, COVER SLABS & TAPERS
(i) PRECAST CONCRETE MANHOLE UNITS SHALL COMPLY WITH THE REQUIREMENTS OF BS 5911. THE RELEVANT ABSORPTION TESTS REQUIRED SHALL BE CARRIED OUT ON A SAMPLE OF THOSE RINGS AND SLABS USED UNLESS A CERTIFICATE OF TESTING IS SUPPLIED BY THE MANUFACTURER. COVER SLABS SITUATED UNDER CARRIAGEWAYS OR TRAFFICKED AREAS SHALL BE HEAVY DUTY AND THOSE ELSEWHERE SHALL BE LIGHT DUTY. MANHOLE UNITS SHALL BE COMPLETE WITH STEP IRONS IF REQUIRED.
5. PIPES
(i) PLASTIC PIPES SHALL BE OF UNPLASTICISED POLYVINYL CHLORIDE (UPVC) COMPLYING WITH THE REQUIREMENTS OF BS EN 1401.
(ii) CONCRETE PIPES SHALL BE SPUN BY A CENTRIFUGAL PROCESS OR BE VERTICALLY PRESSED. THEY SHALL POSSESS SELF INVERTING SOCKETS AND SHALL COMPLY WITH WITH THE REQUIREMENTS OF AND BE TESTED IN ACCORDANCE WITH BS 5911.
(iii) SOLID WALL CONCENTRIC EXTERNAL RIB-REINFORCED UNPLASTICISED PVC PIPE SHALL COMPLY WITH ASTM A978.
(iv) ALL VITRIFIED CLAY PIPES TO BE IN ACCORDFANCE WITH BS EN 295.
(v) ALL PIPE CONNECTIONS TO MHS AND CATCH PITS TO HAVE MIN 600MM ROCKER PIPE AS CLOSE AS PRACTICABLE TO CHAMBER WALL.
6. GULLY GRATES & FRAMES
(i) GULLY GRATES AND FRAMES FOR CARRIAGEWAY GULLIES SHALL COMPLY WITH BS EN 142. GULLIES SHALL BE PATTERN GB4-325 FOR ROADS BELOW 50 DV AND PATTERN GA2-450 FOR ROADS ABOVE 50 DV. GULLY GRATES AND FRAMES FOR KERB SIDE GULLIES SHALL BE PATTERN GK-115 FOR ROADS BELOW 50 DV AND GK-165 FOR ROADS ABOVE 50 DV. CURVED BAR GULLY GRATES SHALL BE USED IN ROADS WHERE THE GRADIENT EXCEEDS 4%.

REV	DATE	CKD	APPD	BY	DESCRIPTION

PRELIMINARY DRAWING
FOR INFORMATION ONLY. NOT FOR CONSTRUCTION.

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Project
9 LIME TREE CLOSE, EAST PRESTON, BN16 1JA
PROJECT NO 4501

Drawing
SURFACE WATER DRAINAGE DESIGN
DRAINAGE DETAILS

Drawn by: SD
Date: MAY-2019

Drawing No.
4501-02

Revision
-

Drawing Scale: 1:20 0 20 40

Drawing No: DRAWING_LOCATION