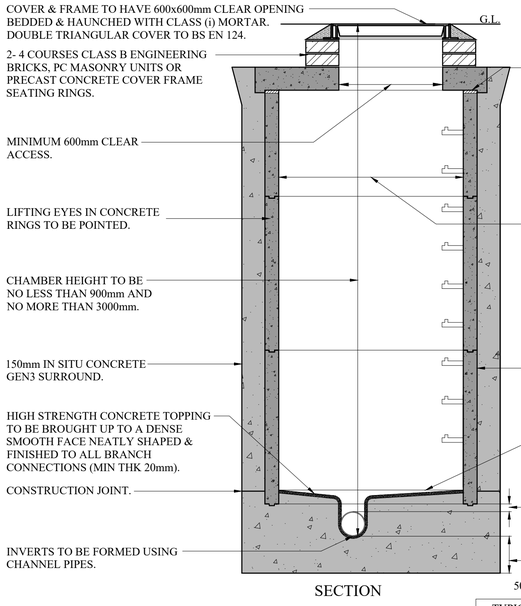
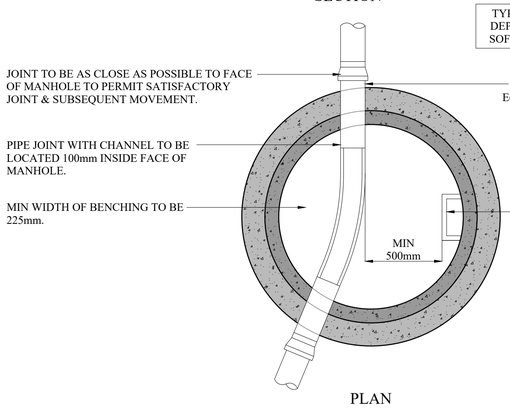


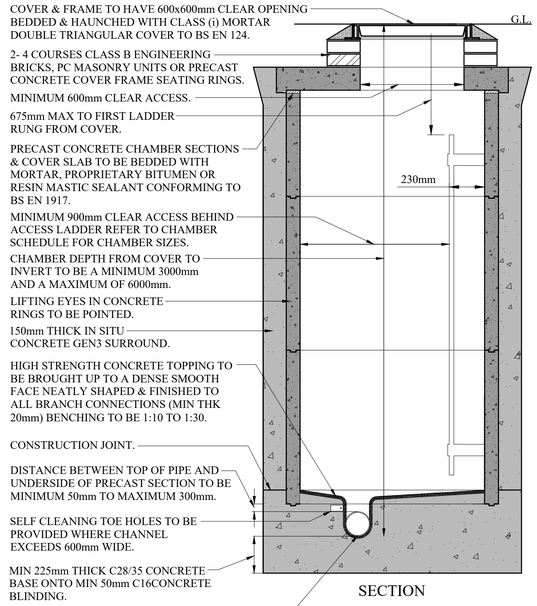

SECTION

TYPICAL CHAMBER DETAIL FOR DEPTH FROM GROUND LEVEL TO SOFFIT OF PIPE TO BE 1.45m - 3.0m

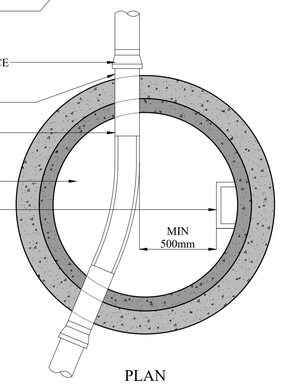



PLAN

TYPICAL INSTALLATION DETAIL FOR TYPE 2 INSPECTION CHAMBER
SCALE - 1:20



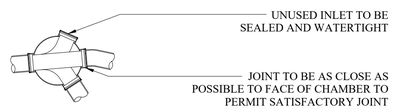

SECTION



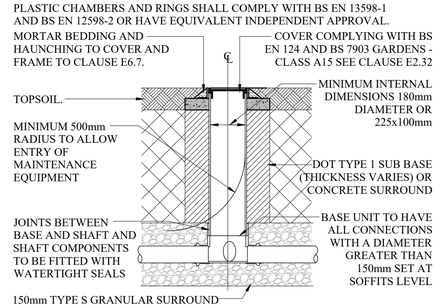

PLAN

TYPICAL INSTALLATION DETAIL FOR TYPE 1B INSPECTION CHAMBER
SCALE - 1:20

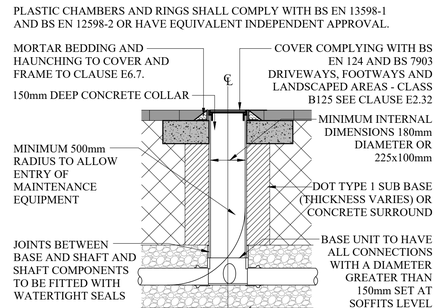
| NOMINAL INTERNAL DIAMETER OF LARGEST PIPE IN CHAMBER (mm) | MINIMUM NOMINAL INTERNAL DIAMETER OF CHAMBER (mm) |
|---|---|
| LESS THAN 375mm | 1200mm |
| 375mm - 450mm | 1350mm |
| 500mm - 700mm | 1500mm |
| 750mm - 900mm | 1800mm |
| GREATER THAN 900mm | PIPE DIAMETER + 900mm |



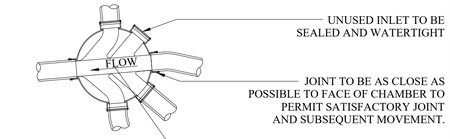

PLAN



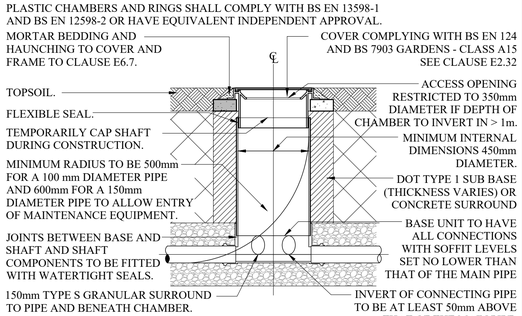

TYPICAL DETAIL FOR Ø 320mm TYPE 4 INSPECTION CHAMBER (SITED IN DRIVEWAYS/PAVED AREAS)
SCALE: 1/20



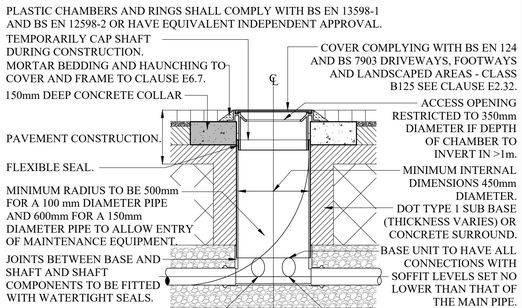

TYPICAL DETAIL FOR Ø 320mm TYPE 4 INSPECTION CHAMBER (SITED IN DRIVEWAYS/PAVED AREAS)
SCALE - 1:20




PLAN




TYPICAL DETAIL FOR Ø 460mm TYPE 3 INSPECTION CHAMBER (SITED IN DRIVEWAYS/PAVED AREAS)
SCALE - 1:20




TYPICAL DETAIL FOR Ø 460mm TYPE 3 INSPECTION CHAMBER (SITED IN DRIVEWAYS/PAVED AREAS)
SCALE - 1:20

SUITABLE FILL - THE SUITABLE FILL SHALL BE SUITABLE FOR THE LOCATION AND SHALL BE CAREFULLY COMPACTED TO PROVIDE A STABLE FILL WITHOUT DAMAGING THE PIPE. FILL UNDER CAR PARKING AREAS, SHARED DRIVES & PRIVATE ROADS SHALL BE WELL COMPACTED GRADED GRANULAR MATERIAL. FILL UNDER ADOPTABLE ROADS MAY NEED TO BE TYPE 1 GRANULAR SUB-BASE MATERIAL - CHECK WITH HIGHWAY AUTHORITY IF APPROPRIATE.

GRANULAR MATERIAL - FOR RIGID PIPES THE GRANULAR MATERIAL SHOULD CONFORM TO BS EN:1610 Annex B Table B.15 AND SHOULD BE SINGLE SIZE MATERIAL OR GRADED MATERIAL FROM 5mm UP TO A MAXIMUM SIZE OF 10mm FOR 100mm DIA, PIPES, 14mm FOR 150mm DIA. PIPES, 20mm FOR PIPES FROM 150mm TO 600mm DIA. AND 40mm FOR PIPES MORE THAN 600mm DIA.

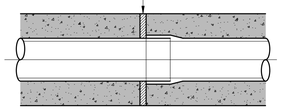
| LIMITS OF COVER IN ANY WIDTH OF TRENCH | | | |
|---|---|---|---|
| Nominal Size | Laid in Fields | Laid in Light Roads | Laid in Main Roads |
| CLASS 120 CLAYWARE PIPES (CLASS S BEDDING) | | | |
| 100mm | 0.9m - 8.0m+ | 1.2m - 8.0m+ | 1.2m - 8.0m |
| 150mm | 0.9m - 8.0m+ | 1.2m - 8.0m+ | 1.2m - 8.0m |
| 225mm | 0.9m - 5.0m | 1.2m - 5.0m | 1.2m - 4.5m |
| 400mm | 0.9m - 4.5m | 1.2m - 4.5m | 1.2m - 4.0m |
| 600mm | 0.9m - 4.5m | 1.2m - 4.5m | 1.2m - 4.0m |
| CLASS 120 CONCRETE PIPES (CLASS S BEDDING) | | | |
| 300mm | 0.9m - 3.0m | 1.2m - 3.0m | 1.2m - 2.5m |
| 450mm | 0.9m - 3.5m | 1.2m - 3.5m | 1.2m - 2.5m |
| 600mm | 0.9m - 3.5m | 1.2m - 3.5m | 1.2m - 3.0m |
| THERMOPLASTIC PIPES (CLASS S BEDDING) | | | |
| 100 - 300mm | 0.9m - 7.0m | 0.9m - 7.0m | 0.9m - 7.0m |
| 300 - 600mm | 0.9m - 4.5m | 0.9m - 4.5m | 0.9m - 4.5m |

SEWERS THROUGH WALLS OR BENEATH FOUNDATIONS (SPREAD ONLY) TO HAVE R.C BRIDGE LINTELS OVER & PIPE SURROUNDED IN FLEXIBLE MATERIAL (50mm). CONCRETE SURROUND TO SEWER TO BE FLEXIBLY JOINTED AT EVERY JOINT NOT WITHSTANDING THE ABOVE, MAXIMUM SPACING OF FLEXIBLE JOINT TO BE 3.0m . TO MAINTAIN THE FLEXIBILITY OF CONCRETE SURROUNDED SEWERS,CONCRETE PROTECTION SHALL BE INTERRUPTED OVER ITS FULL CROSS-SECTION AT EACH PIPE JOINT BY SHAPED COMPRESSIBLE FILLER.

GRANULAR BEDDING TYPE A SHALL CONSIST OF AGGREGATES FROM NATURAL SOURCES SINTERED PULVERIZED FUEL ASH COMPLYING WITH THE RELEVANT PROVISIONS OF BS 882 AND BS 3792 PART 2 RESPECTIVELY AND TO BE SIZED ACCORDING TO PIPE DIAMETER.

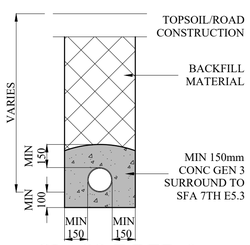
100mm MINIMUM CONCRETE SURROUND DIVIDED WITH 25mm THICK COMPRESSIBLE BOARD AT EACH JOINT. PROTECT PIPE FROM INGRESS OF CONCRETE BY WRAPPING JOINT WITH POLYTHENE SHEET AND ADHESIVE TAPE.

* FOR HEAVY DUTY/INDUSTRIAL APPLICATIONS INCLUDING MAIN ROADS OR ADOPTABLE ROADS INCREASE CONCRETE TO 150mm *

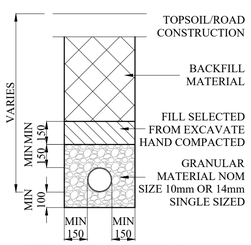


JOINTS FOR CLASS Z BED AND SURROUND PIPES

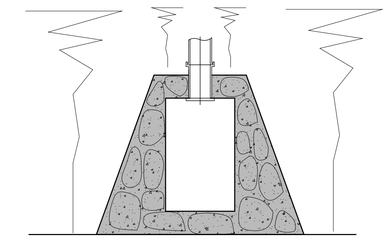
BACKFILLING TO PIPE TRENCHES BENEATH SOFT LANDSCAPE AND FOOTWAYS TO BE SELECTED EXCAVATED MATERIAL FREE FROM STONES LARGER THAN 40mm, LUMPS OF CLAY OVER 100mm, ANY TIMBER, FROZEN MATERIAL OR VEGETABLE MATTER UP TO FORMATION/ GROUND LEVEL FROM THE TOP OF THE SPECIFIED PIPE SURROUND ( WELL COMPACTED IN 150mm MAX LAYERS).




CLASS Z BED & SURROUND
SCALE - 1:20



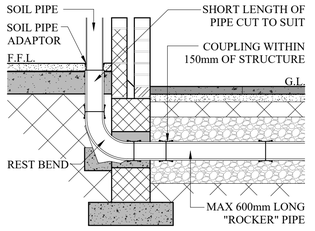

CLASS S BED & SURROUND
SCALE - 1:20



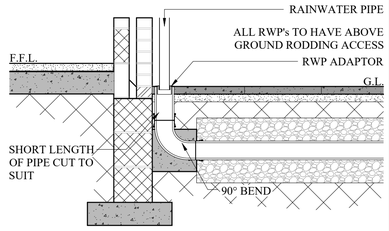
WASTE OR RAINWATER PIPE UP TO MAX 68mm Ø INSERTED THROUGH BRUSH STRIP
INLET GULLY
F.F.L.
G.L.
REMOVE DIP TUBE TRAP FOR FULL BORE RODDING
CONCRETE BED

A CUT LENGTH OF 150mm SUPERSLEVE PIPE AND A 150mm COUPLING INSERTED BETWEEN THE HOPPER AND THE BASE CAN BE USED TO INCREASE THE GULLY DEPTH TO A MAXIMUM OF 600mm REFER TO TYPICAL BEDDING DETAIL FOR PIPE FORMATION CONSTRUCTION

TYP. BACK INLET HOPPER DETAIL
SCALE - 1:20




SVP, SS & WC CONNECTION DETAIL
SCALE - 1:20

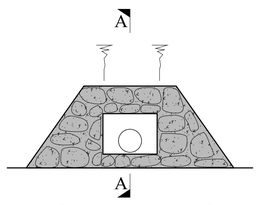



RAIN WATER CONNECTION GULLY
SCALE - 1:20

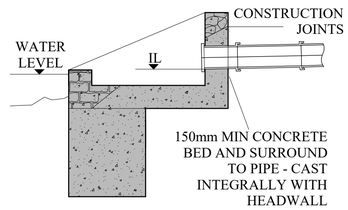
| ROCKER PIPE LENGTHS | |
|---|---|
| NOMINAL DIAMETER | EFFECTIVE LENGTH |
| 150mm - 600mm | 600mm |
| 601mm - 750mm | 1000mm |
| OVER 750mm | 1250mm |



PLAN
HEADWALL DETAILS
SCALE: 1/20




FRONT ELEVATION
HEADWALL DETAILS
SCALE: 1/20




SECTION A-A

## NOTES

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL LEVELS IN METRES UNLESS NOTED OTHERWISE ON DRAWING.
3. ALL DIMENSIONS AND LEVELS TO BE CHECKED ON SITE PRIOR TO UNDERTAKING ANY WORKS, ORDERING MATERIALS OR FABRICATING ANY COMPONENTS.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEER'S AND ARCHITECT'S DRAWINGS AND RELEVANT SPECIFICATION CLAUSES.
5. REPRODUCED FROM THE ORDNANCE SURVEY'S MAPS WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S STATIONARY OFFICE. CROWN COPYRIGHT. LICENCE NO. AC0000855691
6. THE MINIMUM DEPTH OF COVER TO THE CROWN OF GRAVITY PIPES WITHOUT PROTECTION SHOULD BE AS FOLLOWS:
   A) DOMESTIC GARDENS AND PATHWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS, 0.35 M;
   B) DOMESTIC DRIVEWAYS, PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 0.5 M;
   C) DOMESTIC DRIVEWAYS, PARKING AREAS AND NARROW STREETS WITHOUT FOOTWAYS (E.G., MEWS DEVELOPMENTS) WITH LIMITED ACCESS FOR VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 0.9 M; D) AGRICULTURAL LAND AND PUBLIC OPEN SPACE, 0.9 M; E) OTHER HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 1.2 M.

## KEY

NOT FOR CONSTRUCTION

| SUITABILITY | REV | DATE | DESCRIPTION | Org. | Ckd | Appd | Auth. |
|---|---|---|---|---|---|---|---|
| S2 | P01 | 02.09.24 | FIRST ISSUE | | | | |

PROJECT TITLE:
MINERS RESCUE CENTRE, WREXHAM

DRAWING TITLE:
PROPOSED DRAINAGE CONSTRUCTION DETAILS **SHEET 1**

DRAWING REF:
**5078-BRP-XX-XX-DR-C-0009**

| ORIGINATOR: | DATE: | SCALE @ A1: | SUITABILITY: | REVISION: |
|---|---|---|---|---|
| M.Jones | 02.09.2024 | STATED | S2 | P02 |

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