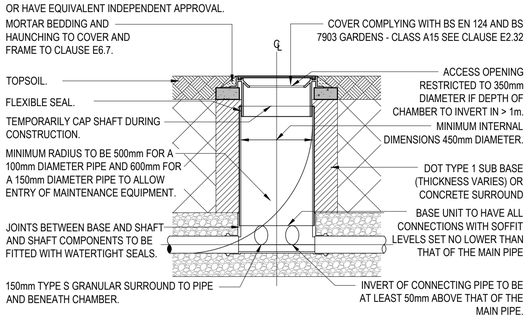


PLAN

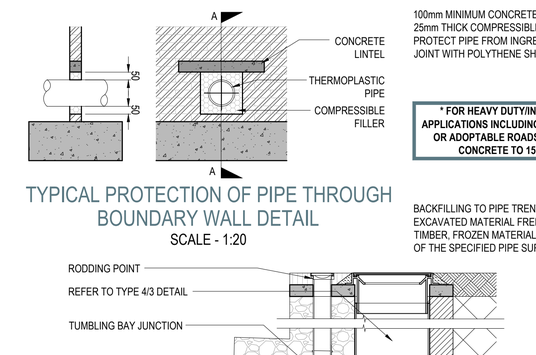
PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 12598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL.



TYPICAL DETAIL FOR Ø 460mm TYPE 3 INSPECTION CHAMBER (SITED IN DOMESTIC GARDENS)

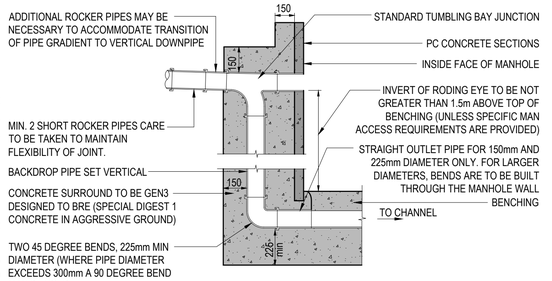
SCALE - 1:20

PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 12598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL.



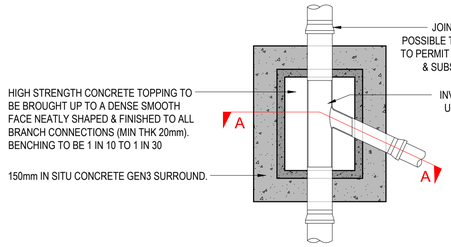
TYPICAL DETAIL FOR Ø 460mm TYPE 3 INSPECTION CHAMBER (SITED IN DRIVEWAYS/PAVED AREAS)

SCALE - 1:20



TYPICAL VERTICAL BACKDROP DETAIL

SCALE - 1:20

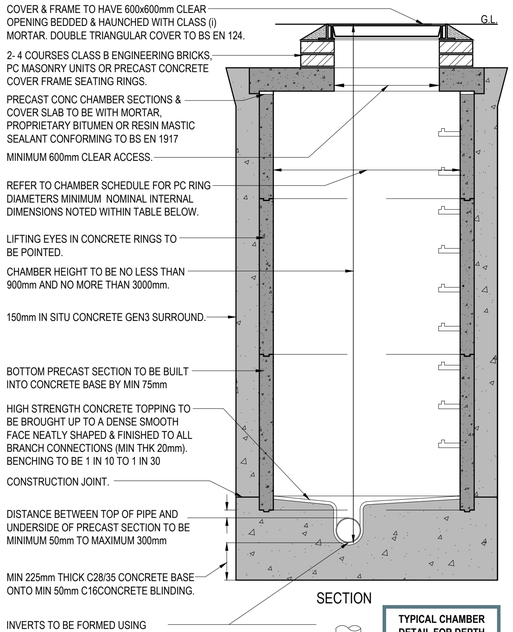


PLAN

SECTION A-A

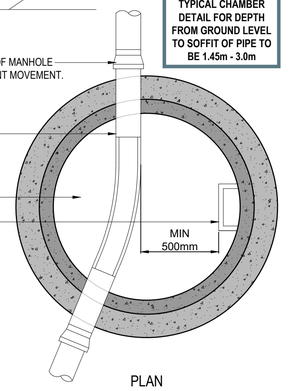
TYPE 3 RIGID INSPECTION CHAMBER DETAIL

SCALE - 1:20



SECTION

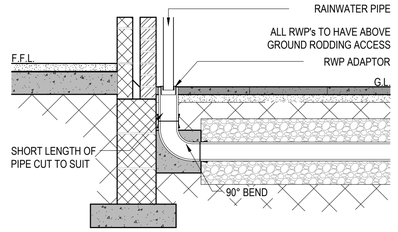
TYPICAL CHAMBER DETAIL FOR DEPTH FROM GROUND LEVEL TO SOFFIT OF PIPE TO BE 1.45m - 3.0m



PLAN

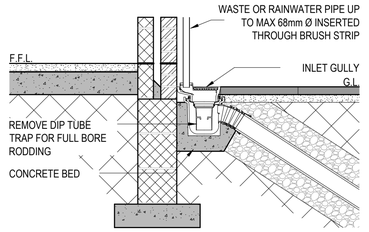
TYPICAL INSTALLATION DETAIL FOR TYPE 2 INSPECTION CHAMBER

SCALE - 1:20



RAIN WATER CONNECTION GULLY

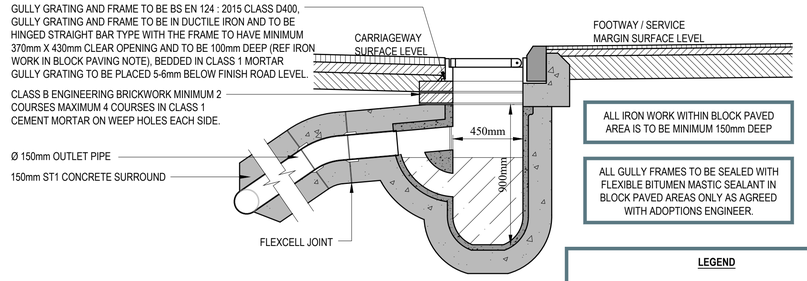
SCALE - 1:20



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



HIGHWAY GULLY DETAIL

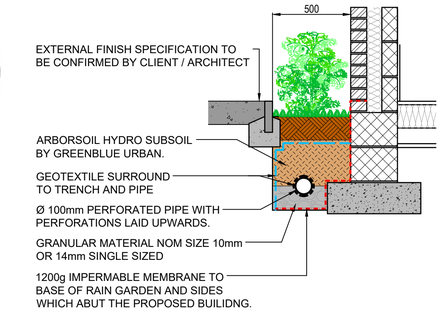
SCALE - 1:20

ALL IRON WORK WITHIN BLOCK PAVED AREA IS TO BE MINIMUM 150mm DEEP

ALL GULLY FRAMES TO BE SEALED WITH FLEXIBLE BITUMEN MASTIC SEALANT IN BLOCK PAVED AREAS ONLY AS AGREED WITH ADOPTIONS ENGINEER.

LEGEND

- 1200g IMPERMABLE MEMBRANE
- NON-WOVEN GEOTEXTILE
- CAST INSITU CONCRETE
- PRECAST CONCRETE



PROPOSED RAIN GARDEN DETAIL

SCALE: 1:20

NOTES

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.

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.

SECTION B.3.1.10
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, 0.35m.

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, 0.5m.

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, 0.9m.

D: AGRICULTURAL LAND AND PUBLIC OPEN SPACE, 0.9m.

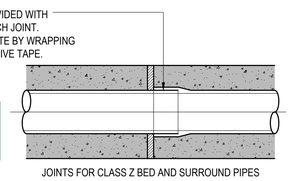
E: OTHER HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 1.2m.

TYPICAL PROTECTION OF PIPE THROUGH BOUNDARY WALL DETAIL

SCALE - 1:20

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.

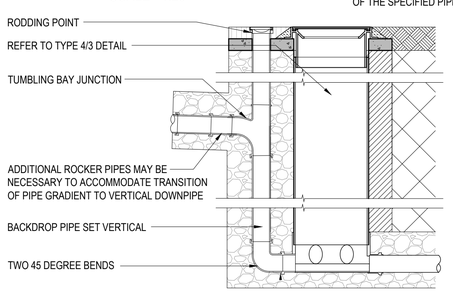
*** FOR HEAVY DUTY/INDUSTRIAL APPLICATIONS INCLUDING MAIN ROADS OR ADOPTABLE ROADS INCREASE CONCRETE TO 150mm ***



JOINTS FOR CLASS Z BED AND SURROUND PIPES

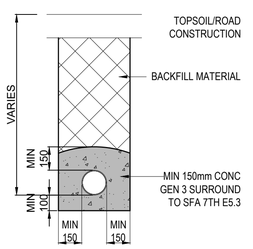
NOMINAL INTERNAL DIAMETER OF LARGEST PIPE IN CHAMBER (mm)	MINIMUM NOMINAL INTERNAL DIAMETER OF CHAMBER (mm)
LESS THAN 375mm	1200mm
375mm - 450mm	1350mm
500mm - 700mm	1500mm
750mm - 900mm	1800mm
GREATER THAN 900mm	PIPE DIAMETER + 900mm

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).



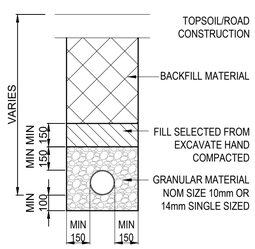
TYPICAL VERTICAL BACKDROP ONTO PPIC CHAMBER DETAIL

SCALE - 1:20



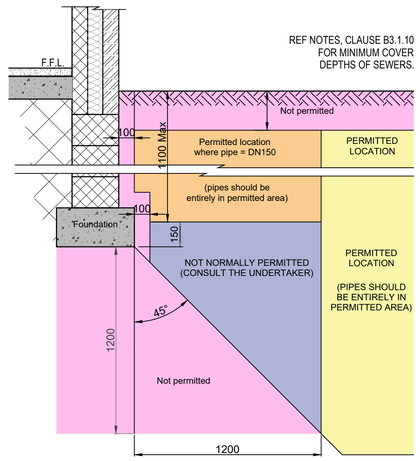
CLASS Z BED & SURROUND

SCALE - 1:20



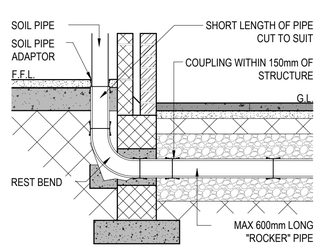
CLASS S BED & SURROUND

SCALE - 1:20



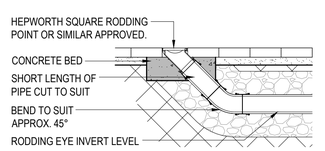
PERMITTED LOCATION OF SEWERS & LATERAL DRAINS IN PROXIMITY TO BUILDINGS

SCALE: 1:20



SVP, SS & WC CONNECTION DETAIL

SCALE - 1:20



TYP. RODDING EYE DETAIL

SCALE - 1:20

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P01	22.08.2025	FIRST ISSUE	KB	KB	BT

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CLIENT: ROSS FREER

ARCHITECT: MATISCHOK & ROSS - ARCHITECTURAL SERVICES

PROJECT: WESTMINSTER ROAD, MOSS, WREXHAM

TITLE: DRAINAGE CONSTRUCTION DETAILS

STATUS:	PROJECT No.	DRAWING No.	REV:
S2	477	008	P01

SCALE @ A1:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
1:20	BT	HI	KB	BT	AUGUST 2025

MON CIVILS LIMITED