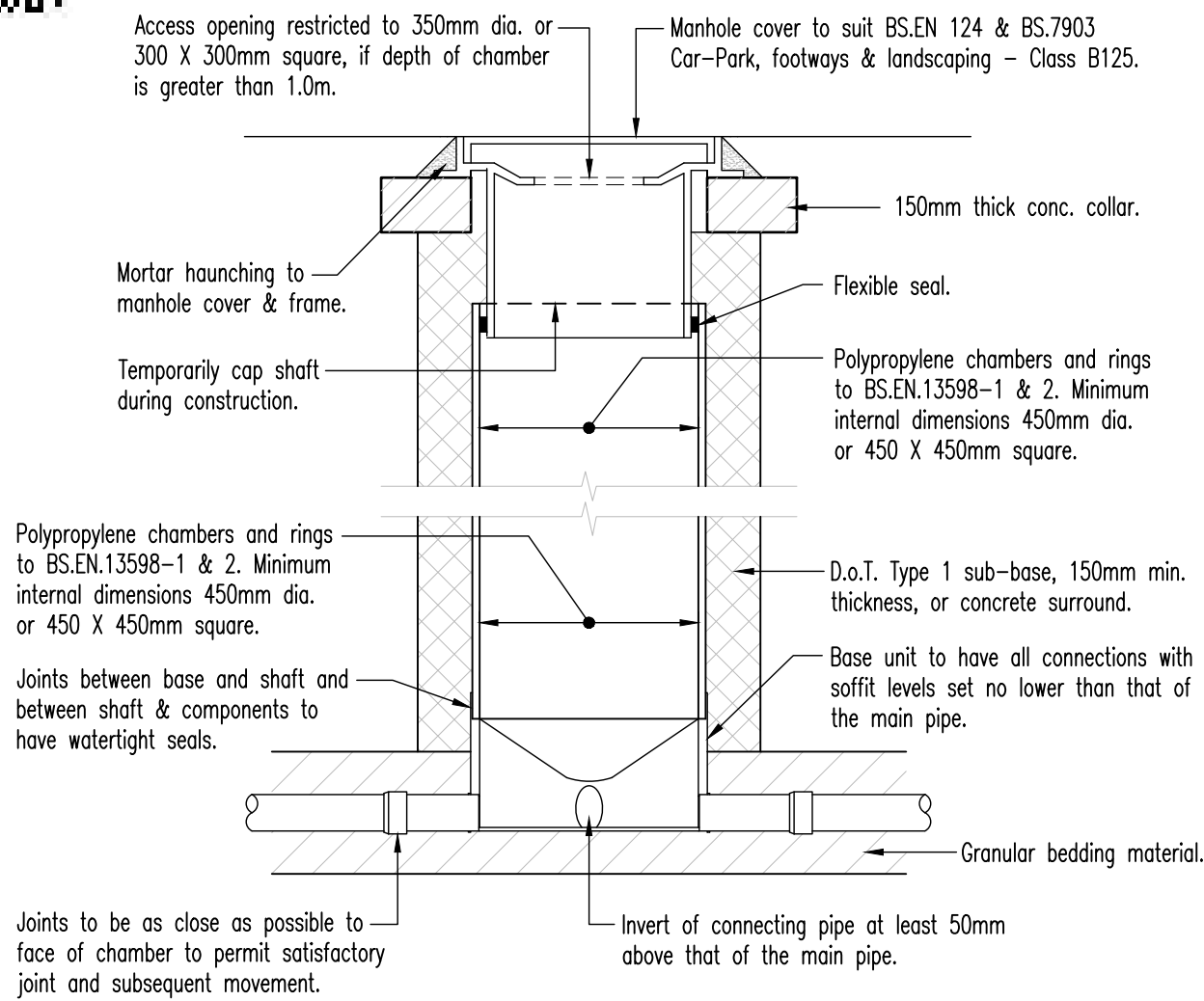
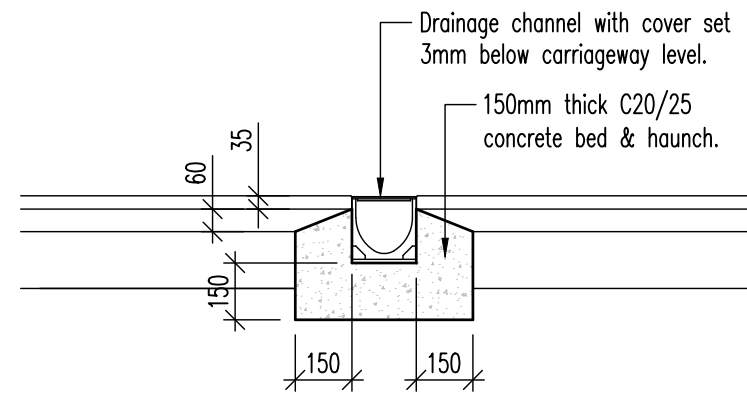




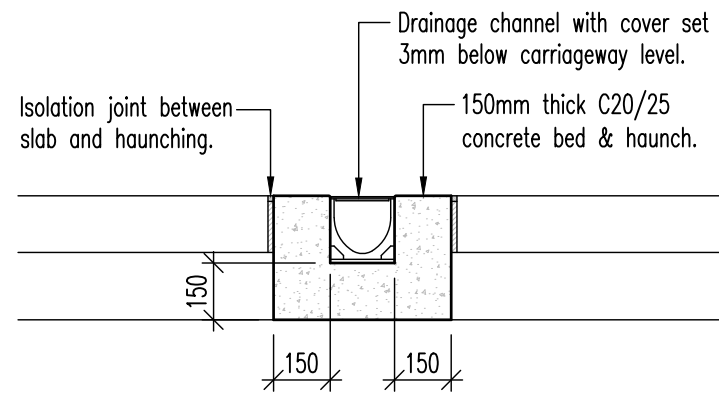
POLYPROPYLENE INSPECTION CHAMBER DETAIL - TYPE 3 -

(DEPTH TO SOFFIT LESS THAN 3.0m & SUBJECT TO NON-HGV LOADING)



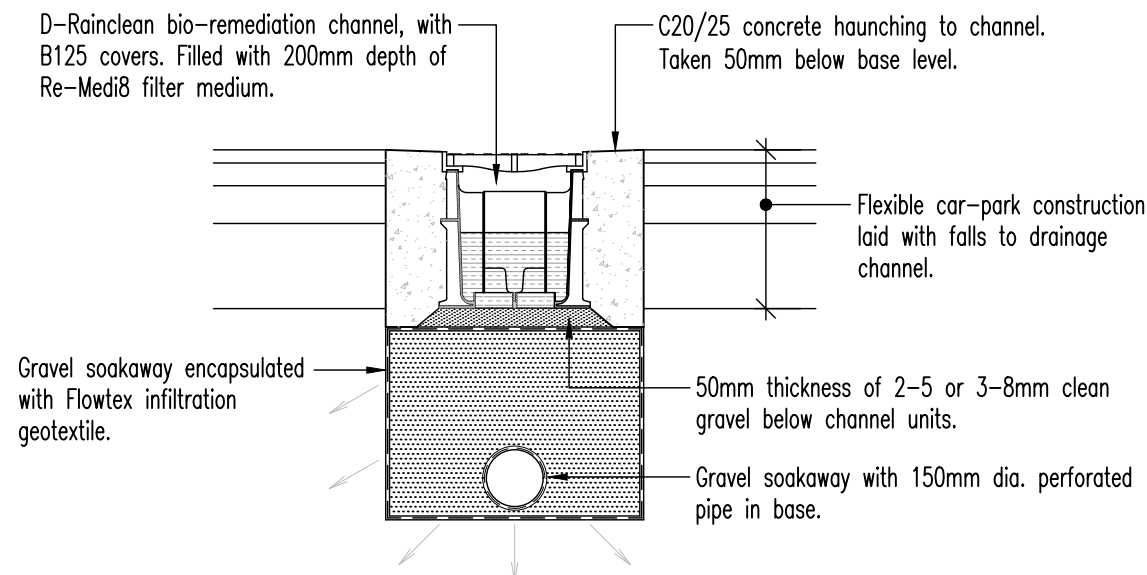
DRAINAGE CHANNEL DETAIL (WITHIN FLEXIBLE PAVING)

Note:
Drainage channels to be installed in strict accordance with manufacturers requirements.



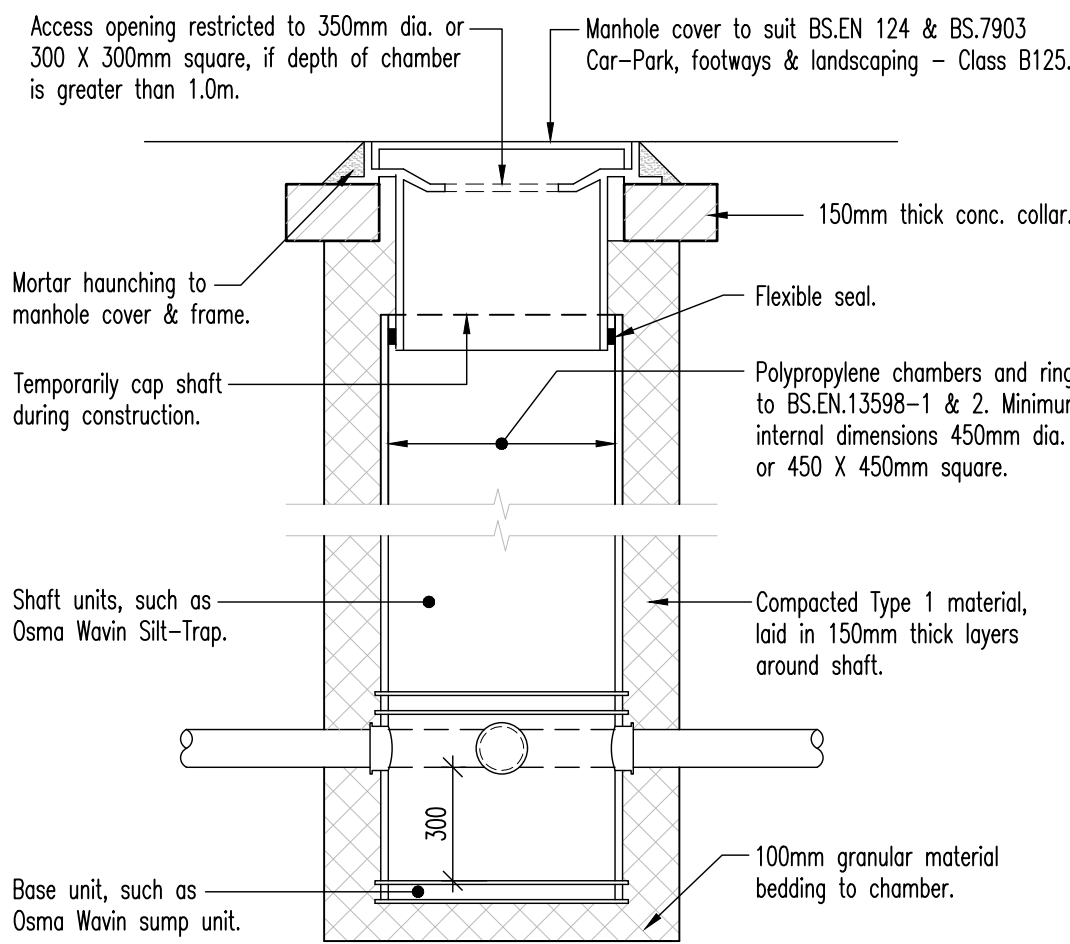
DRAINAGE CHANNEL DETAIL (WITHIN CONCRETE SLAB)

Note:
Drainage channels to be installed in strict accordance with manufacturers requirements.

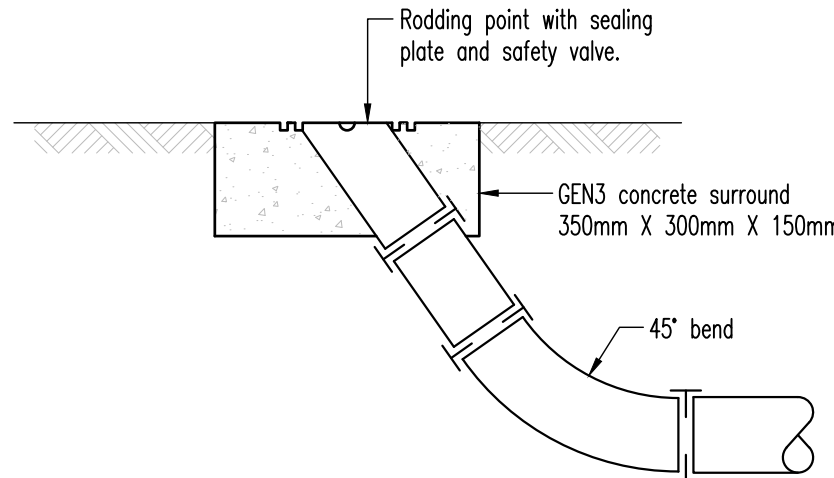


D-RAINCLEAN BIO-REMEDATION DRAINAGE CHANNEL

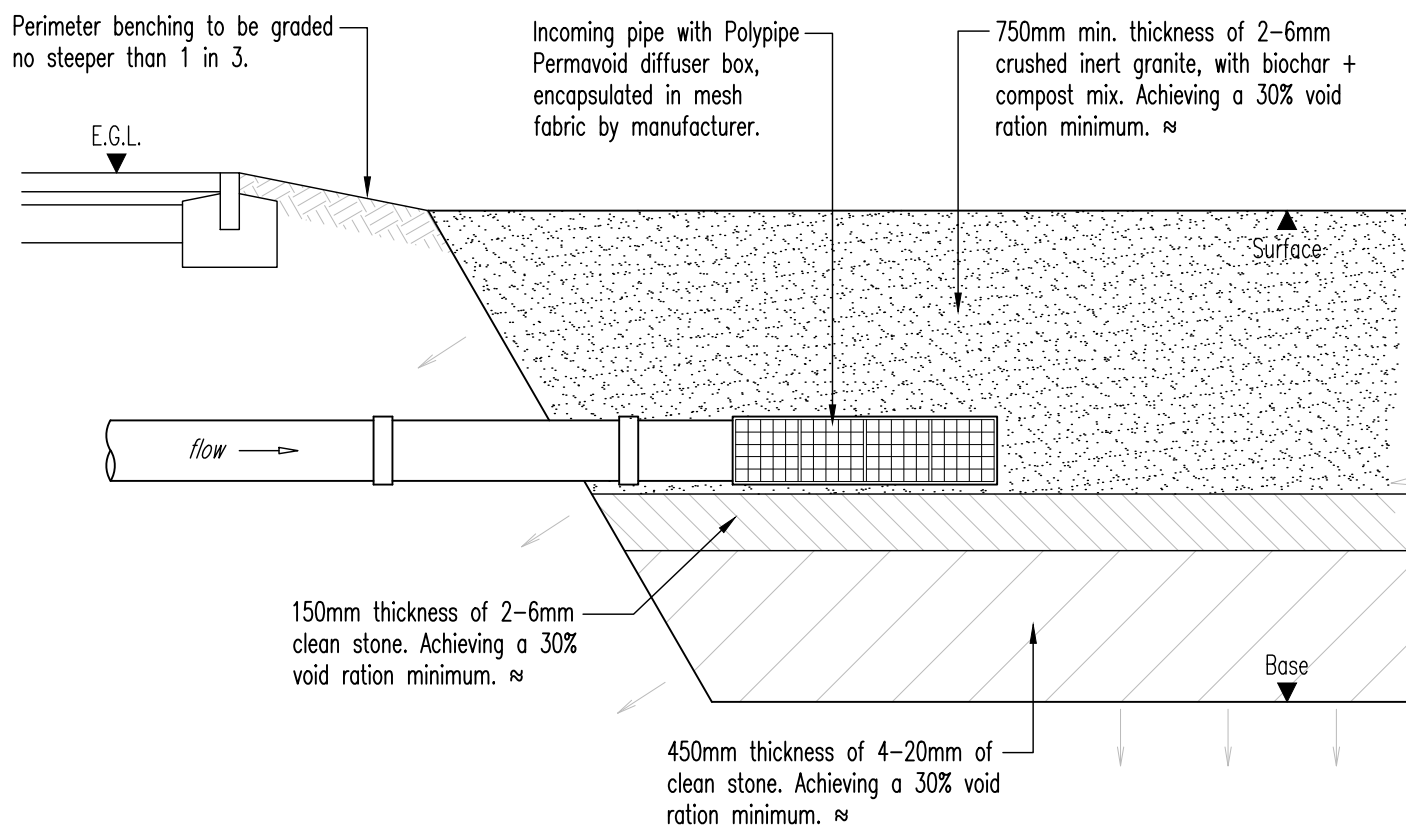
Note:
Drainage channels to be installed in strict accordance with manufacturers requirements.



POLYPROPYLENE NON-ENTRY SILT TRAP CHAMBER

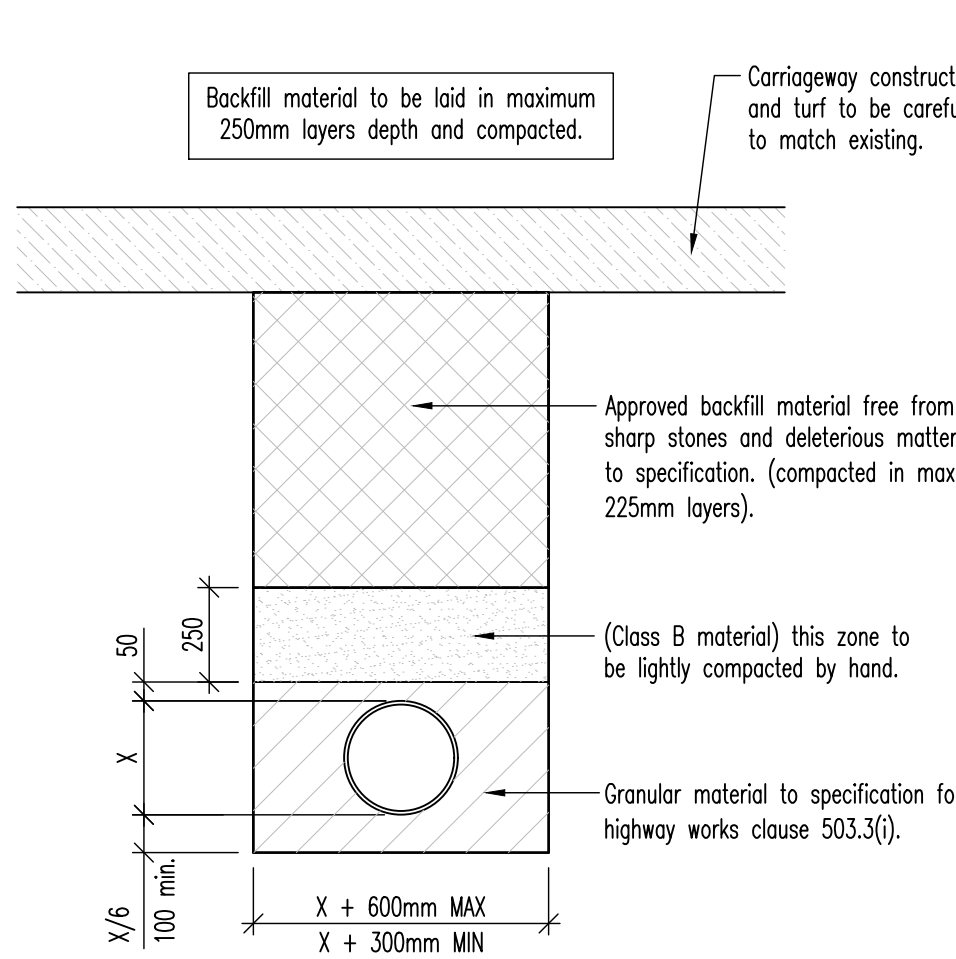


RODDING ACCESS POINT DETAIL



PROPOSED COURTYARD SuDS RAINGARDEN DETAIL

Note: ≈
Final details of raingardens aggregate, biochar and compost mix to landscape architects specification. Total porosity / void ratio of material must 30% or greater.

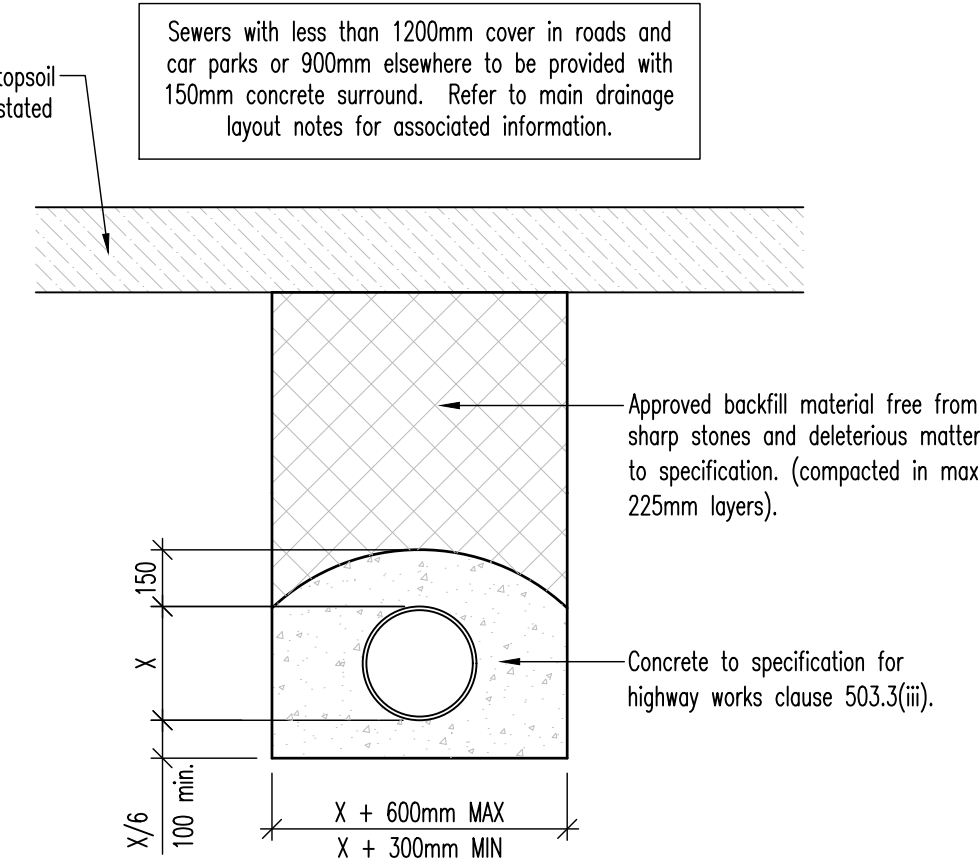


TYPICAL PIPE BEDDING DETAIL

GRANULAR BED & SURROUND
(COVER > 1.2m TO CROWN UNDER ROADS & FOOTPATHS)
(COVER > 0.9m TO CROWN ELSEWHERE)

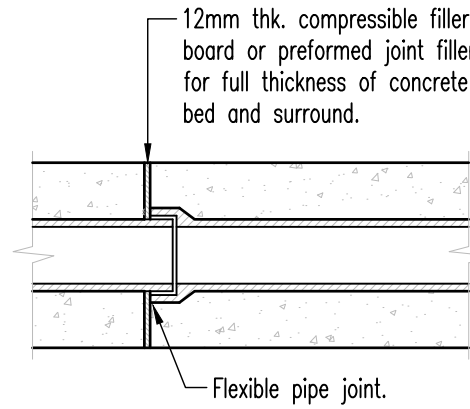
PIPE BEDDING DETAILS	
PIPE DIAMETER	GRANULAR MATERIAL SIZE
100mm	10mm nominal single size
150mm	10mm or 14mm nominal single size
150mm – 500mm	10mm, 14mm or 20mm nominal single size

Note:
Granular material for bedding and sidefill to conform to BS.EN.12620:2013

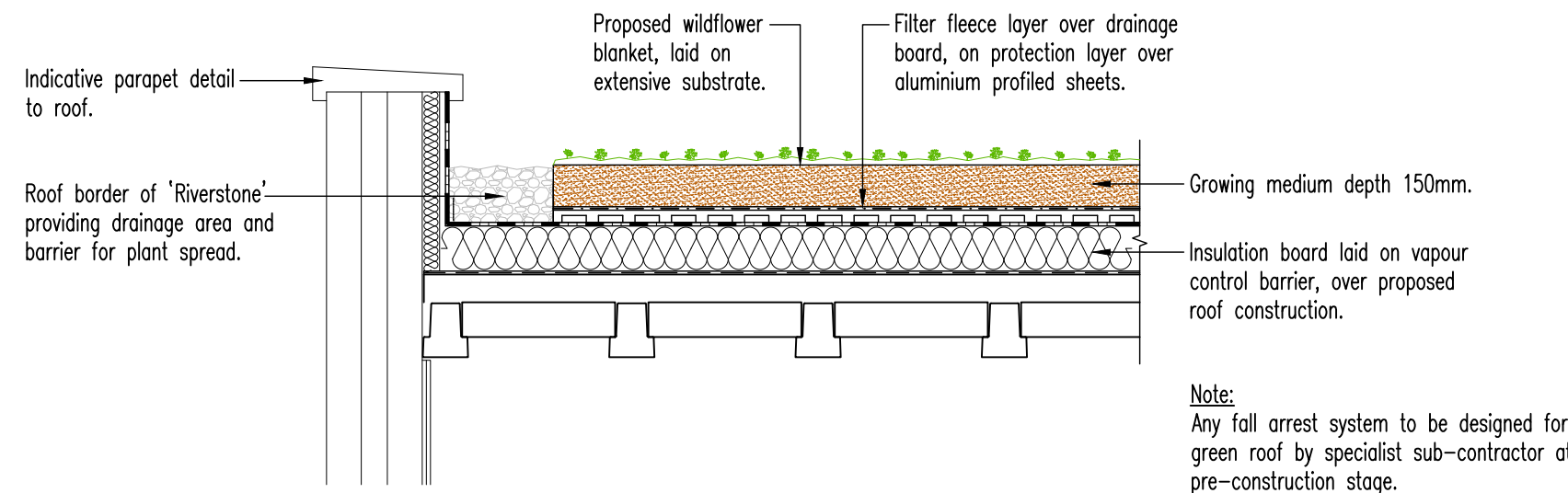


TYPICAL PIPE BEDDING DETAIL

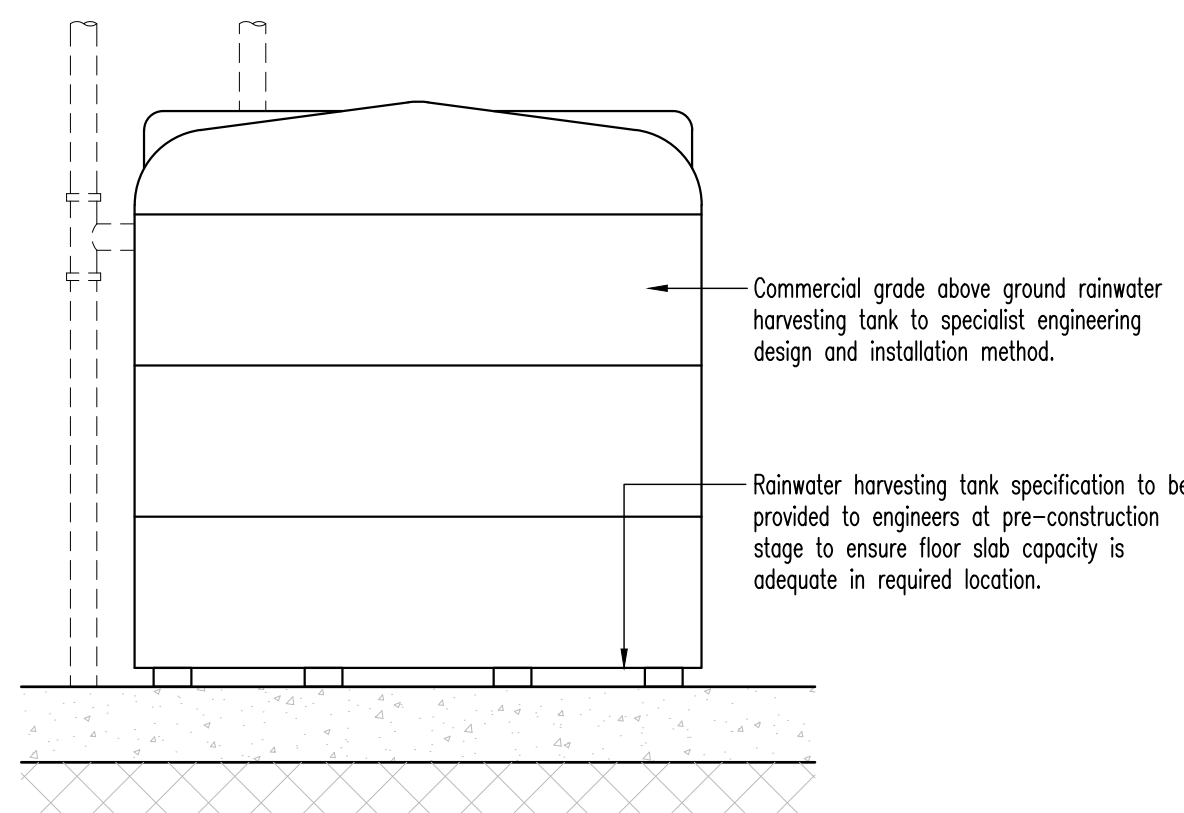
CONCRETE ENCASED
(COVER < 1.2m TO CROWN UNDER ROADS & FOOTPATHS)
(COVER < 0.9m TO CROWN ELSEWHERE)



CONCRETE SURROUND JOINT DETAIL



PROPOSED GREEN ROOF DETAIL



ABOVE GROUND R.W.H. TANK DETAIL

GENERAL:

- All dimensions are in millimetres. All levels are in metres.
- Do not scale from this drawing – use figured dimensions only.
- This drawing is to be read in conjunction with the latest Engineer's and Specialist's drawings and specifications.

MATERIALS & WORKMANSHIP:

- All work shall comply with the relevant British standards, current Building Regulations and the specifications shown.
- Where drains run close to the building, trenches are to be backfilled with concrete to levels in accordance with Building Regulations Part H.

PIPEWORK:

- Pipework to conform to the following:-
Vitrified clay systems with flexible joints to BS.65.
Precast concrete systems with flexible joints to BS.5911.
U.P.V.C. systems with flexible joints to BS.EN.1401-1.
- UPVC pipes between 150–300mm diameter are to be structured wall pipes of stiffness class SN8.
- Flexible joints shall be provided to all pipes within 600mm of inner face of manhole. Projecting pipes shall be surrounded with 150mm grade ST4 concrete cast monolithically with the manhole base.
- Where pipes are encased in concrete the flexibility of the joints are to be maintained throughout the encasement. This should be provided by means of 20mm thick fibreboard, (or polystyrene), and positioned around the pipe at the centre of every joint at 6m centres max.
- Pipes shall have granular bed and surround unless otherwise detailed. Granular material shall conform to BS.13242, and should be carefully placed and consolidated by hand in thin layers.
- All pipework connections at manholes to be soffit to soffit.
- The length of pipework between manholes to include for any short length pipes as necessary to achieve the configuration of rocker pipes and standard short length pipes at fixed manhole positions.
- All pipework built into manholes to be either standard short lengths or cut lengths as appropriate.
- Rocker pipes to be a maximum of 600mm long.
- Maximum length of pipe within adoptable works to be 3m.
- All saddle connections to be formed utilising proprietary junction sections.
- All pipework beneath vehicular circulation areas and within 1m of such areas shall, where cover is less than 1200mm, receive a full concrete bed and surround, 900mm elsewhere.
- All pipework beneath building footprint to receive full concrete bed and surround.
- All down pipe connections to be 100mm nominal bore and all down pipes to have rodding access points approx. 1000mm above ground/finished floor level.

MANHOLE COVERS AND GRATINGS:

- Covers shall be set at, or not more than 5mm below the surrounding level in paved areas. Inverts shall be within 5mm of given level, and may not cause the as-laid gradient of the pipes to vary from that given on the drawing by more than 10%.
- All manhole covers in carriageway area shall comply with the relevant B.S E.N 124, D400 kitemarked and they shall be of a non-rocking design which does not rely on the use of cushion inserts.
- All manhole covers in footways, pedestrian areas and comparable locations shall comply with the relevant B.S E.N 124, B125 kitemarked and they shall be of a non-rocking design which does not rely on the use of cushion inserts.
- All manhole covers shall be the non-ventilating type and shall have closed keyways.

P2	10.09.25	JJD	RIBA Stage 3 Issue.
P1	18.08.25	JJD	Preliminary Issue.
REV.	DATE	DRAWN	REVISION

DRAWING ISSUE STATUS

- ☒ PRELIMINARY ISSUE ☐ DESIGN DEVELOPMENT PRIOR TO TENDER
☐ TENDER ISSUE ☐ DESIGN DEVELOPMENT PRIOR TO CONSTRUCTION
☐ CONSTRUCTION ISSUE ☐ AS BUILT ISSUE

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CLIENT :

Tilbury Douglas

PROJECT :

EDUCATION LIBRARY & RESOURCE CENTRE

TITLE :

S.W. DRAINAGE DETAILS

DATE : AUG. 2025	DRAWN : JJD	CHECKED : AS	SCALE : 1:20 @ A1
PROJECT: 100654	ORIGIN: AUS	ZONE: XX	LEVEL: XX
		TYPE: D	ROLE: C
		NUMBER: 1010	CODE: S1
			REV: P2