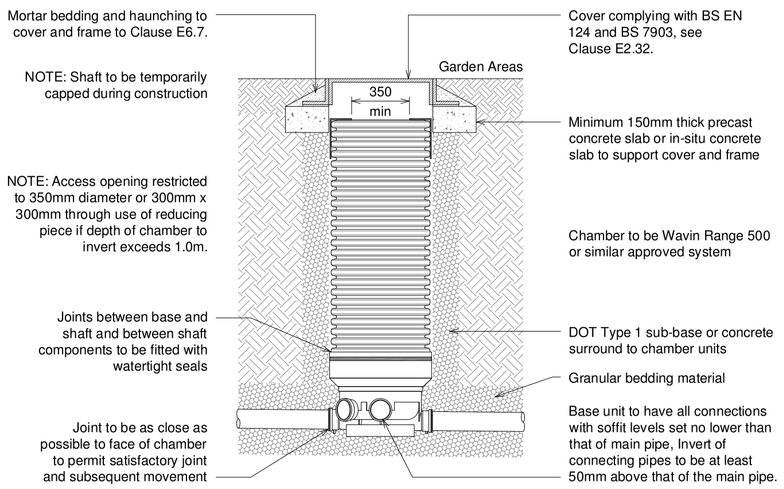
Typical Type 3 Chamber Detail (Non-Entry)

scale 1:25

- **Maximum depth of cover level to soffit of pipe 3.0m**
- **For individual access cover grades see schedules.**



NOTE:
Plastic chambers and rings in areas subject to vehicle loading shall comply with BS EN 13598-2, in all other areas they are to comply with BS EN 13598-1 or BS EN 13598-2 or have equivalent independent approval.

Clause E6.6 - Pipes and Joints Adjacent to Structures

1. Where rigid pipes are used, a flexible joint (rocker pipe) shall be provided as close as is feasible to the outside face of any structure into which a pipe is built, within 150mm for pipe diameters less than 300mm. The design of the joints shall be compatible with any subsequent movement.

2. The recommended length of the next pipe (rocker pipe) away from the structure shall be as shown in Table E.12.

Table E.12 Rocker Pipes

Nominal Diameter (mm)	Effective length of Rocker Pipe (mm)
150	600

Text taken from Figure B.14

1. Stub pipes into structures shall be of rigid material.

2. No incoming branch is to be less than 90° from the outgoing direction of flow, all pipes entering the bottom of the manhole are to have level soffits.

Clause E6.7 - Setting Manhole Covers and Frames

1. Manhole frames shall be set to level, bedded and haunched externally over the base and sides of the frame in mortar, in accordance with the manufacturers instructions.

2. Frames for manhole covers shall be bedded in a polyester resin based mortar in all situations where covers are sited in NRSWA Road Categories I,II or III (i.e. all except residential cul-de-sacs).

Table E.6

NRSWA road category	Description	Minimum frame depth (mm)
I	Trunk roads and dual carriageways	150
II	All other A roads	150
III	Bus services	150
IV	All other roads except residential cul-de-sacs	150
-	Residential cul-de-sacs	100

Clause: E2.32 Manhole Covers and Frames

1. Manhole covers and frames shall comply with the relevant provisions of BS EN124, BS7903 and Highways Agency Guidance Document HA 104/09. They shall be of a non-rocking design which does not rely on the use of cushion inserts.

2. Manhole covers on foul-only sewers shall be of low leakage types in order to prevent excessive surface water ingress.

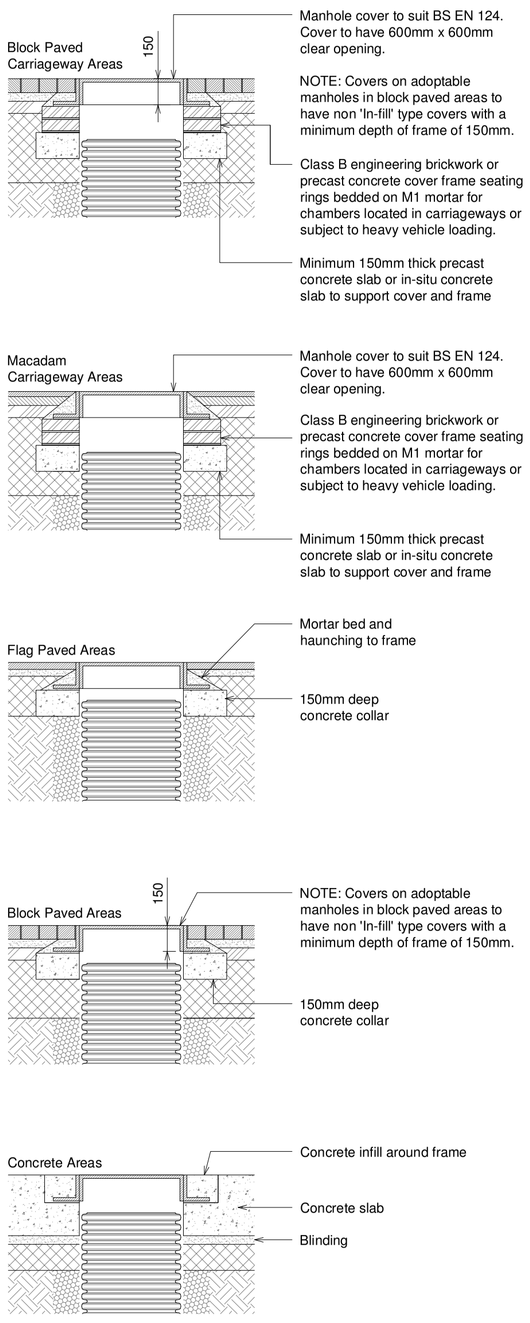
3. As a minimum, Class D400 covers shall be used in carriageways of roads (including pedestrian streets), hard shoulders and parking areas used by all types of road vehicles.

4. Minimum frame depths for NRSWA road categories I to IV shall be as Table E.6.

Type 3 Alternate Cover Details

scale 1:25

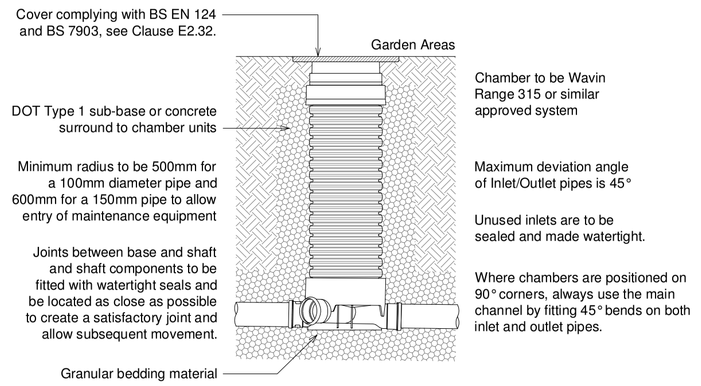
All covers to comply with BS EN 124 and BS7903, see Clause E2.32.
All covers to have mortar bedding and haunching to cover and frame to Clause E6.7



Typical Type 4 Chamber Detail (Non-Entry)

scale 1:20

- **Max depth from cover to soffit of pipe 2.0m**
- **For individual access cover grades see schedules.**



NOTE:
1. Plastic chambers and rings shall comply with BS EN 13598-1 or BS EN 13598-2 or have equivalent independent approval.
2. Backfill to be well compacted around shaft of chamber.

Clause: E2.32 Manhole Covers and Frames

1. Manhole covers and frames shall comply with the relevant provisions of BS EN124, BS7903 and Highways Agency Guidance Document HA 104/09. They shall be of a non-rocking design which does not rely on the use of cushion inserts.

2. Manhole covers on foul-only sewers shall be of low leakage types in order to prevent excessive surface water ingress.

3. As a minimum, Class D400 covers shall be used in carriageways of roads (including pedestrian streets), hard shoulders and parking areas used by all types of road vehicles.

4. Minimum frame depths for NRSWA road categories I to IV shall be as Table E.6.

Table E.6

NRSWA road category	Description	Minimum frame depth (mm)
I	Trunk roads and dual carriageways	150
II	All other A roads	150
III	Bus services	150
IV	All other roads except residential cul-de-sacs	150
-	Residential cul-de-sacs	100

Clause: E6.7 Setting Manhole Covers and Frames

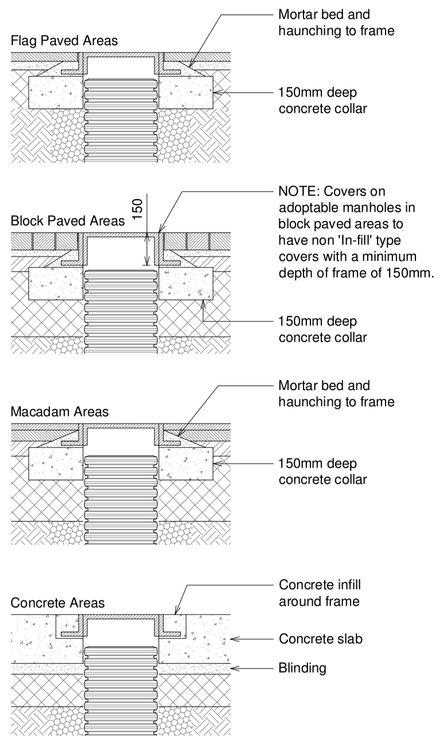
1. Manhole frames shall be set to level, bedded and haunched externally over the base and sides of the frame in mortar, in accordance with the manufacturers instructions.

2. Frames for manhole covers shall be bedded in a polyester resin bedding mortar in all situations where covers are sited in NRSWA Road Categories I, II or III (i.e. all except residential cul-de-sacs).

Type 4 - Alternate Cover Details

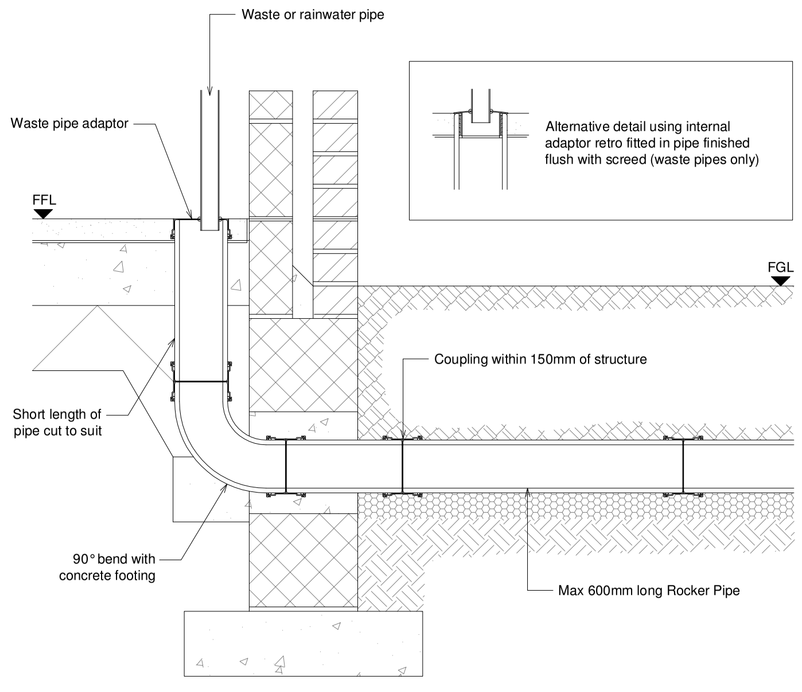
scale 1:20

All covers to comply with BS EN 124 and BS 7903, see Clause E2.32.
All covers to have mortar bedding and haunching to cover and frame to Clause E6.7



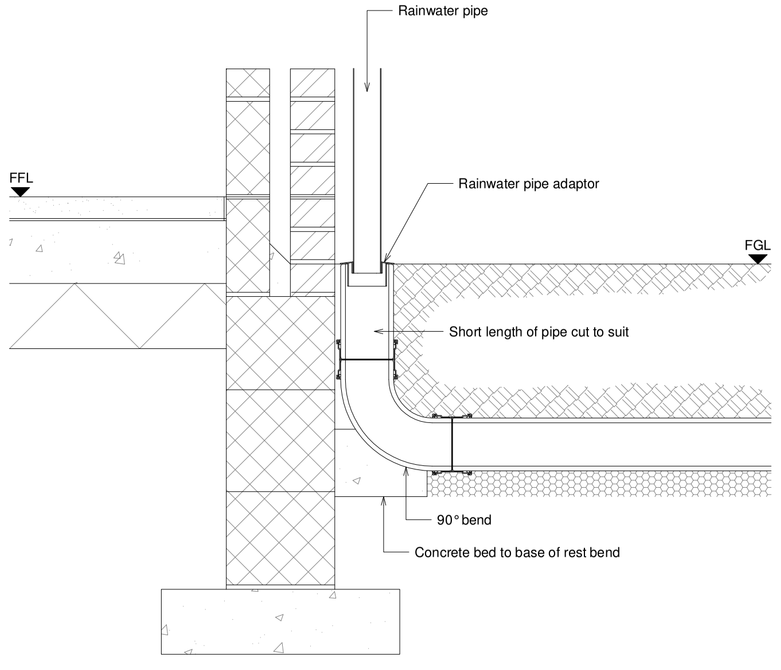
Typical Internal Waste Pipe Connection Detail

scale 1:10



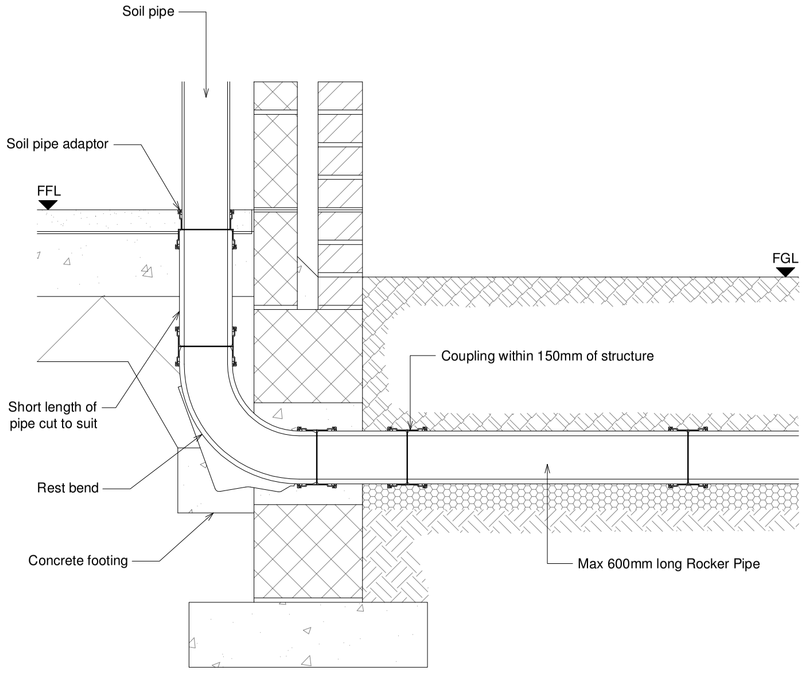
Typical External Rainwater Pipe Connection Detail

scale 1:10



Typical Soil Vent Pipe / Stub Stack Connection Detail

scale 1:10



NOTES

- The Contractor should check all dimensions on site.
- It is the Contractors responsibility to ensure compliance with building regulations and current codes of practice.
- Drawings cannot take into account any drains or underground works not locatable by visual survey of the site.
- Commencement of any building works prior to full building regulation approval is entirely at the clients risk.

Rev	Description	Date
00	First issue to client	**/**/20**

PROJECT
Proposed development at 13a Queen Street, Deal, Kent CT14 6EX.

CLIENT
G Pound Esq – c/o Urban Surveying & Design

tridax
Design Office, Suite 3, Honeywood House, Whitfield, Dover, Kent, CT16 3EH
Tel: 01304 820777

DRAWING
Proposed Drainage Details
Sheet 2

SCALES: As Noted | DATE: 22/06/2017 | SIZE: A1

STATUS: **PRELIMINARY**

Dwg No.: **EMC-2017-81-04** | REV.: 00

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