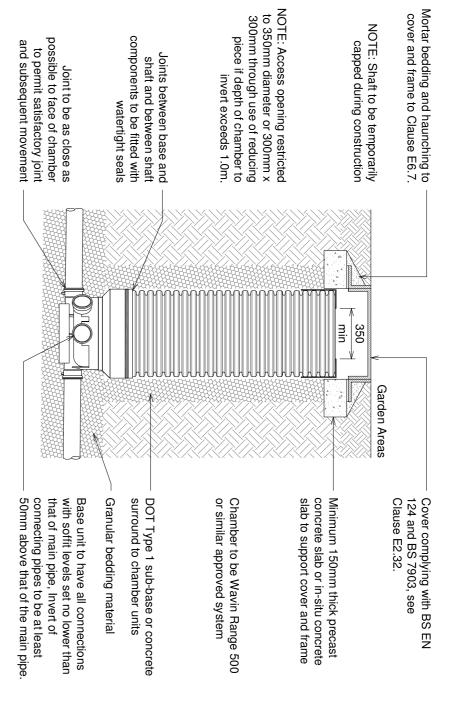
## Typical Type 3 Chamber Detail (Non-Entry)

## 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.

# se E6.6 - Pipes and Joints Adjacent to Structures 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.

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

concrete collar

150	(mm)	Nominal Diameter	Table E.12 Rocker Pipes
600	Rocker Pipe (mm)	Effective length of	
,		_	_

Text taken from Figure B.14

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

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).

#### ≡ < = All other roads except residential cul-de-sacs Trunk roads and dual carriageways All other A roads Bus services Description 150 150 150 150

- Ilause: E2.32 Manhole Covers and Frames

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

ω

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

Blinding

Concrete slab

100

Typical Type 2 Catch Pit Detail

ortar bedding and haunching to over and frame to Clause E6.7.

600mm x 600mm clear opening cover complying with BS EN 124 and BS 7903 with closed keyways bedded on M1 mortar and with mortar haunch.
 For cover grade see schedules.

Minimum 2 courses of Class B engineering bricks or precast concrete cover frame seating rings bedded on M1 mortar or sealing strips.

600 min

1200

150mm thick In-situ concrete surround to PCC sections, concrete to be GEN3 (designed to BRE Special Digest 1 Concrete in Aggressive Ground).

Inlet Level
(see schedule)

150

The bottom precast sections to be built into base concrete minimum 75mm.

600 min

Precast concrete cham rings, bedded on M1 mortar or sealing strip

20mm high strength granolithic topping to sump of catchpit

75mm blinding

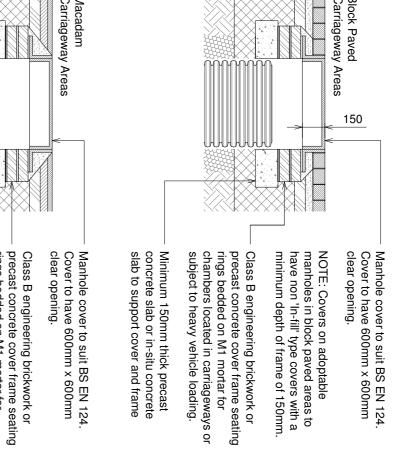
struction joint

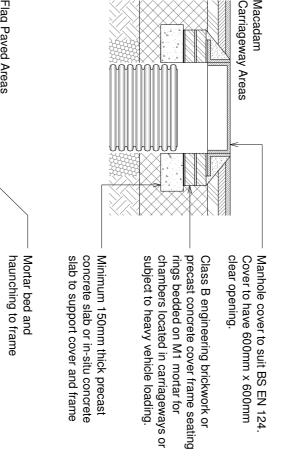
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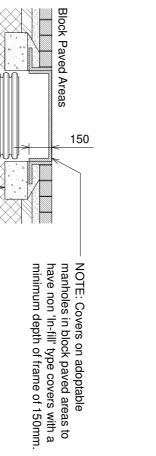
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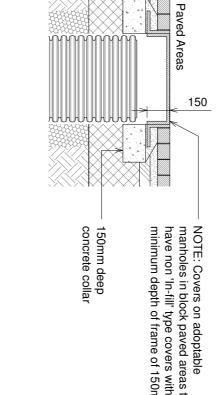
### Type 3 Alternate Cover D etails

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









300 375 450 525 600 750 900

600 750 750 900 900 1200 1350

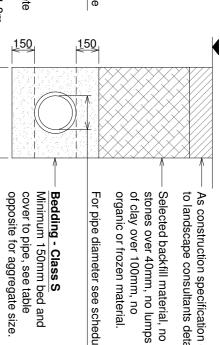
### Pipe Bedding - Class Z Areas subject to vehicle loadings. Less than 1.2m cover to pipe.

#### Bedding - Class Z Minimum 150mm bed and surround of grade ST4 concrete to pipe with Flexcell board or similar approved joints every 1.8m Selected backfill material, no stones over 40mm, no lumps of clay over 100mm, no organic or frozen material. 150

## Pipe Bedding - Class S Areas not subject to vehicle loadings. Use in private gardens, landscaped areas etc.

PCC Kerb

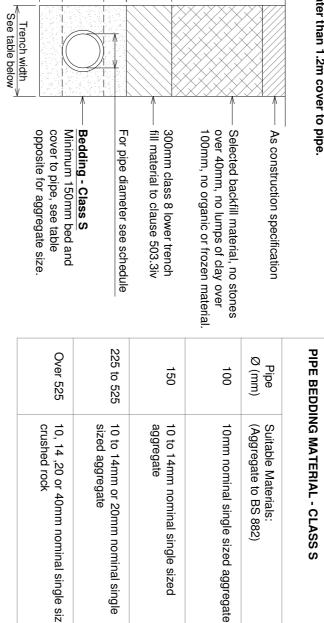
Typical Highway Gully Detail



### Pipe Bedding - Class S eas subject to vehicle loadings. eater than 1.2m cover to pipe.

Trench width See table below

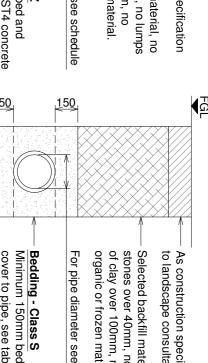
Trench width See table below

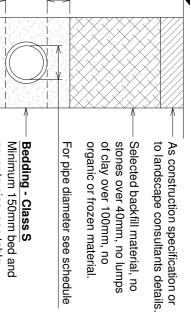


Where excavations have been supported and the supports are removed they shall be withdrawn progressively as backfilling proceeds in a manner that minimises the danger of collapse, all voids formed behind the supports are to be carefully filled and compacted. Pipe surround material shall where required, be placed and compacted over the full width of the trench in layers not exceeding 150mm before compaction, to a finished thickness of 300mm above the crown of the pipe.

Pipe jointing surfaces and components shall be kept clean and free from extraneous matter until the joints have been made or assembled, care should be taken to ensure that there is no ingress of grout or other material into the joint after the joint has been made.

Pipes should be cut in accordance with the manufacturers recommendations to provide a clean square profile without splitting or fracturing the pipe wall and to ensure minimal damage to any protective coatings, where necessary, the cut ends of pipes shall be formed to the tapers and chamfers suitable for the type of joint to be used.





### Channel Drain Detail

NOTE: Concrete protection to pipe where depth to soffit is less than 1.2m

150mm min grade ST4 concrete bed

Gully pot 900mm deep x 450mm interdiameter trapped outlet to BS 5911

150mm grade ST2 concrete surround

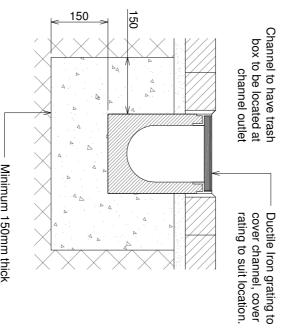
225mm Class B engineering brick bedded on class 1 cement mortar, 4 courses max and 2 courses min. Mortar fillet to be formed between brickwork and ledges of gully pot.

25mm thick expansion joint.

ised Iron stopper and securing chain

Gully grating and frame to BS EN 124 Class D400 with 900cm² min area of waterway, bedded on Class 1 cement mortar bed 10mm min and 20mm max. Frame to be 6mm below finished carriageway level and in same plane as adjacent surface.

al single sized



## Minimum 150mm thick bed and surround to channel drain

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#### 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. approval is entirely at the

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