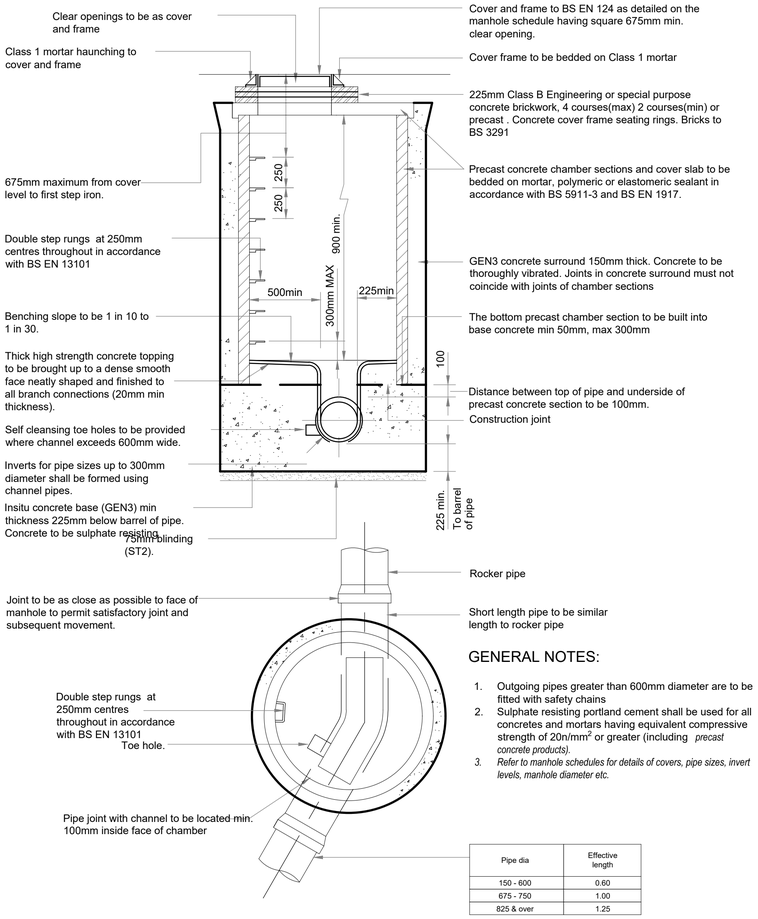
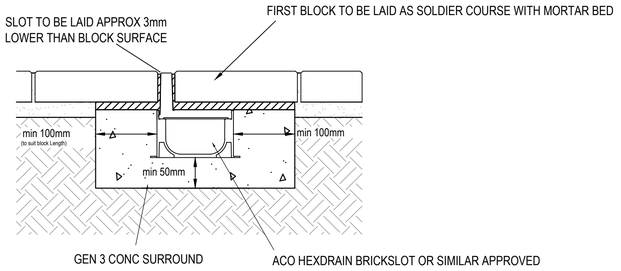



## MANHOLE - TYPE 2
DEPTH TO SOFFIT = 3.0m MAXIMUM

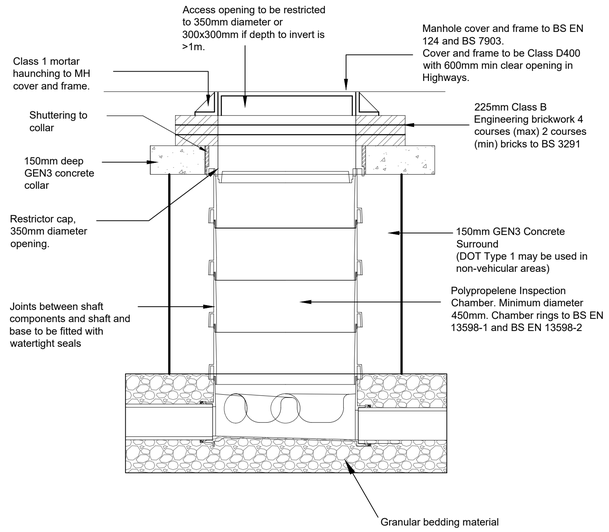
### GENERAL NOTES:

1. Outgoing pipes greater than 600mm diameter are to be fitted with safety chains
2. Sulphate resisting portland cement shall be used for all concretes and mortars having equivalent compressive strength of 20n/mm² or greater (including *precast concrete products).*
3. *Refer to manhole schedules for details of covers, pipe sizes, invert levels, manhole diameter etc.*

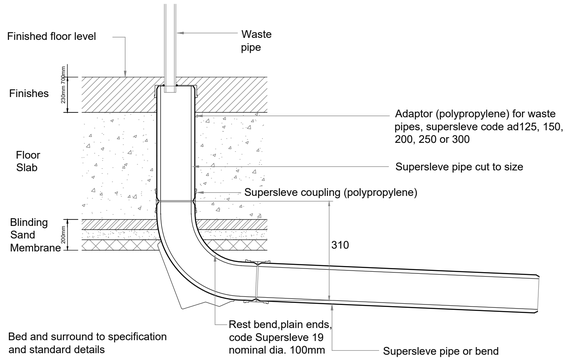
| Pipe dia | Effective length |
|---|---|
| 150 - 600 | 0.60 |
| 675 - 750 | 1.00 |
| 825 & over | 1.25 |



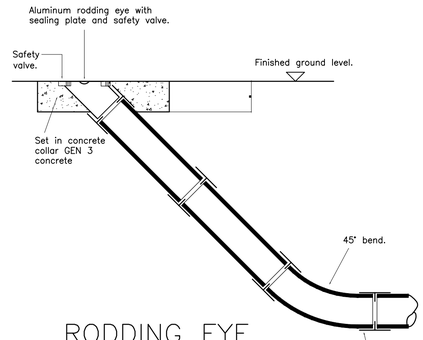

## PEDESTRIAN SLOTDRAIN DETAIL N.T.S.



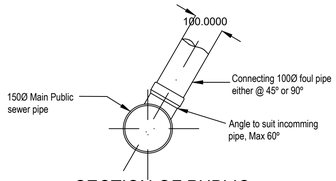

## MANHOLE TYPE 3 (non-entry) NOT TO SCALE
MAX DEPTH TO SOFFIT 3.0m



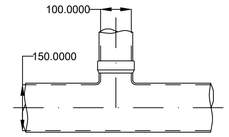

## CONNECTION TO WASTE OR RAINWATER PIPES



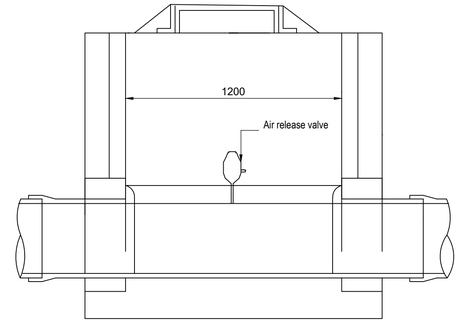

## RODDING EYE
PEDESTRIAN AREAS ONLY



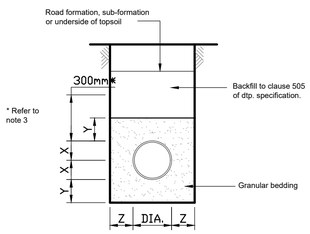

## SECTION OF PUBLIC SEWER WITH CONNECTING FOUL PIPE




## PUBLIC SEWER CONNECTION @ 90º



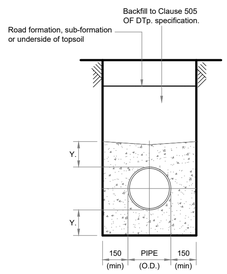

## AIR RELEASE MANHOLE DETAIL




## CLASS S BEDDING
## GRANULAR BED AND SURROUND
(Bedding factor = 2.2)

X = Half of outside diameter of pipe
Y = Refer to pipe bedding dimension table
Z = Minimum 150mm

NOTES:
1. Bedding to be used where depth of cover to pipe is minimum:
   - 1.1. 1.2m under trafficked areas (adoptable roads),
   - 1.2. 0.9m under agricultural land, public open space, domestic driveways, parking areas and narrow streets without footways with limited access for vehicles with a gross vehicle weight in excess of 7.5 tonnes.
   - 1.3. 0.6m under soft landscaping.
2. Refer to tables for dimensions and bedding details
3. Bedding beneath and at the sides of the pipe to be well compacted
4. The first 300mm of fill above the crown of the pipe is to be lightly tamped by hand. Mechanical compaction may be used only above this level.
5. Geotextiles may be used where directed or approved by the engineer to contain bedding material in certain soils e.g. running sand
6. In very wet conditions, where directed or approved by the engineer a temporary land drain may be laid within the granular bed.

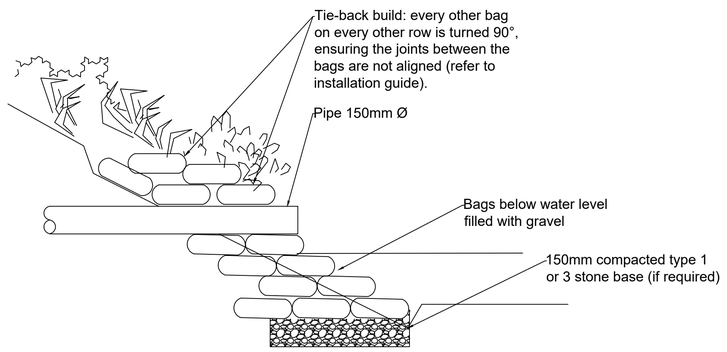



## CLASS Z BEDDING
## PLAIN CONCRETE BED AND SURROUND

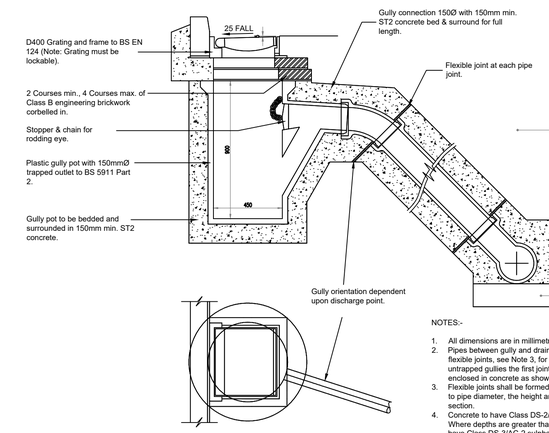
NOTES:

1. Bedding to be used where Class S surround is not suitable.
2. Bedding beneath and at sides of the pipe to be well compacted.
3. Geotextiles may be used where directed or approved by the engineer to contain bedding material in certain soils e.g. running sand.
4. In very wet conditions, where directed or approved by the engineer a temporary land drain may be laid within the granular bed.
5. Where pipes with flexible joints are used, the concrete protection is to be interrupted over its full cross-section at intervals not exceeding 5 metres (or as directed by the engineer) by a shaped former of bitumen impregnated compressible filler. these interruptions shall coincide with pipe joints. see dimensions for pipe bedding table for thickness of compressible filler.
6. Concrete to be Class 2; sulphate resisting ST4 concrete
7. Where flexible pipes are used. care must be taken to prevent the pipes from floating.

## BEDDING AND SURROUND DETAILS




## INDICATIVE HEADWALL SECTION




## GULLY DETAIL

NOTES:-

1. All dimensions are in millimetres.
2. Pipes between gully and drain whether flexible or rigid shall have flexible joints, see Note 3, for 200mm from gully. However for untrapped gullies the first joint from the gully pot shall be fully enclosed in concrete as shown.
3. Flexible joints shall be formed with 18mm thick fibre board, pre-cut to pipe diameter, the height and width equal to the concrete cross section.
4. Concrete to have Class DS-2/AC-2 resistance to sulphates. Where depths are greater than 4m below ground level concrete to have Class DS-3/AC-2 sulphate resistance.
5. Where a prefabricated junction is used, the concrete surround to the drain junction may be omitted.

| Rev | Date | Description | By | Apvd |
|---|---|---|---|---|
| C1 | 18.10.24 | Construction Issue | RL | RL |
| T1 | 31.05.24 | Tender issue | AH | RL |
| P1 | 19:04:24 | Preliminary Issue | AH | RL |

**PROJECT:**
COLDHARBOUR FARM ROAD, EMSWORTH

**TITLE:**
DRAINAGE DETAILS

**CLIENT:**
DOSWELL PROJECTS

**SCALE@A1:**
NTS

**PROJECT REF:**
23339

**DRAWING No:** JUBB_XX_XX_DR_C_550

**REV:** C1

*Revision Referencing*
P = Preliminary A = Approval T = Tender C = Construction


Bristol, Cardiff, Plymouth, Winchester
St James Court, St James Parade, Bristol BS1 3LH
jubb.uk.com
+44(0)117 922 6266