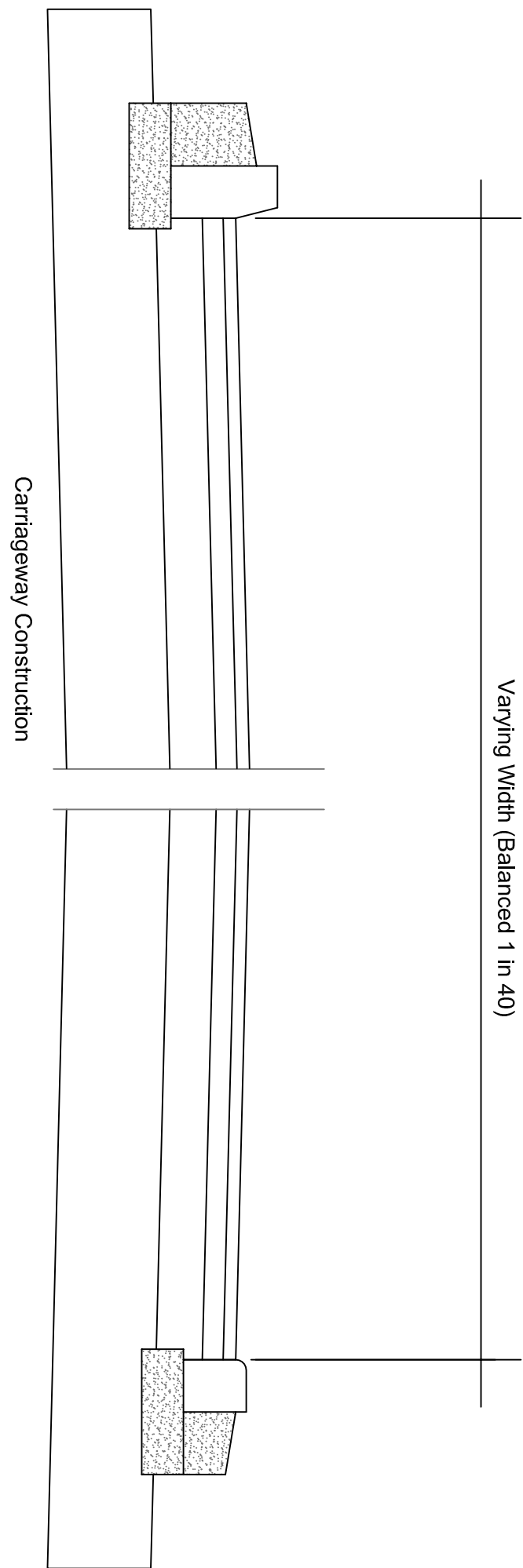
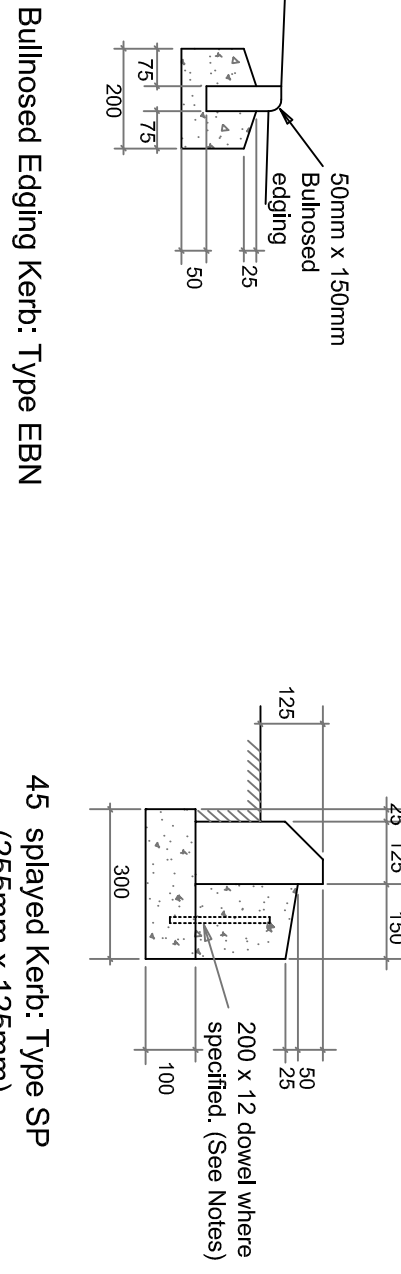
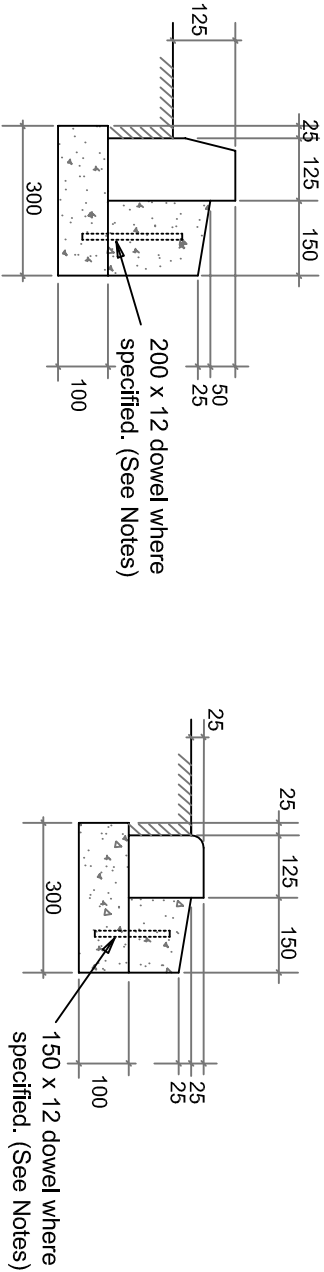
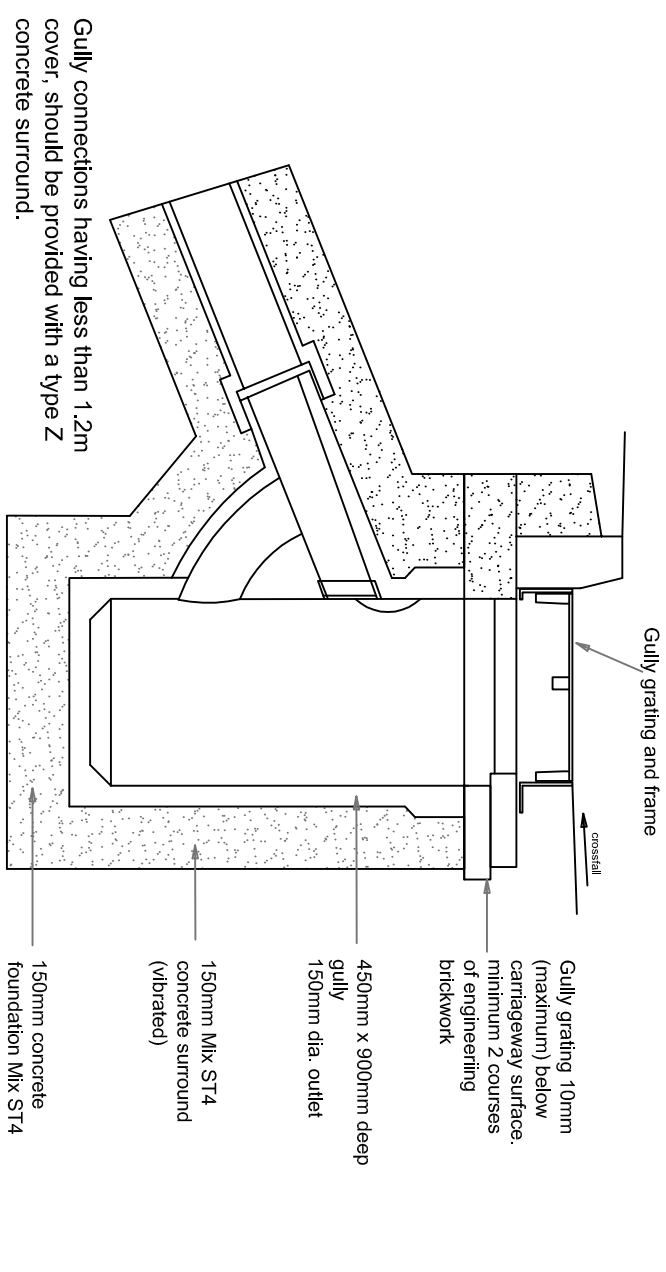


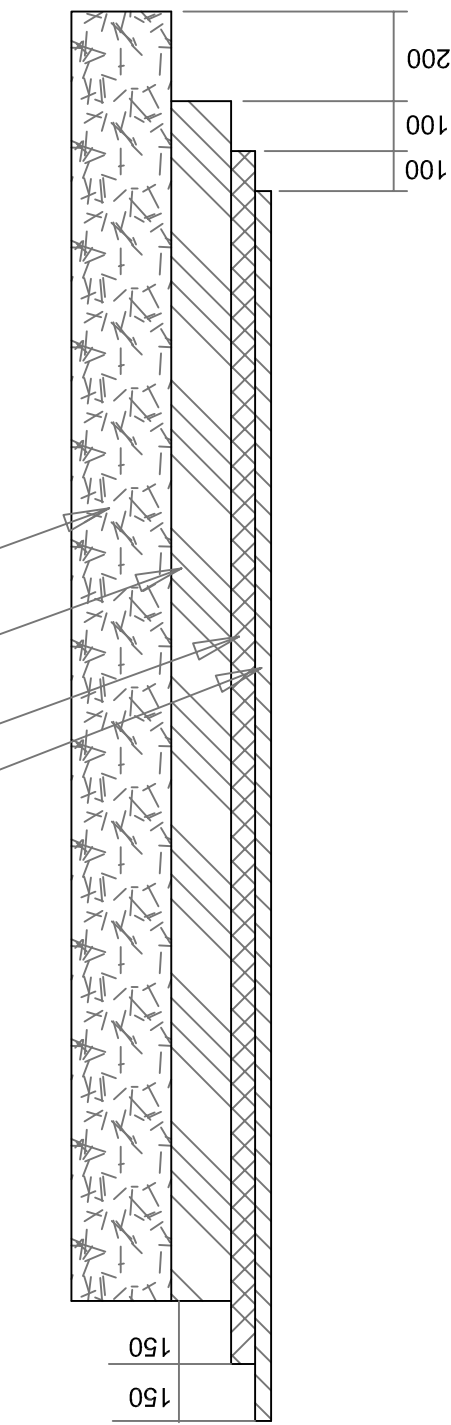
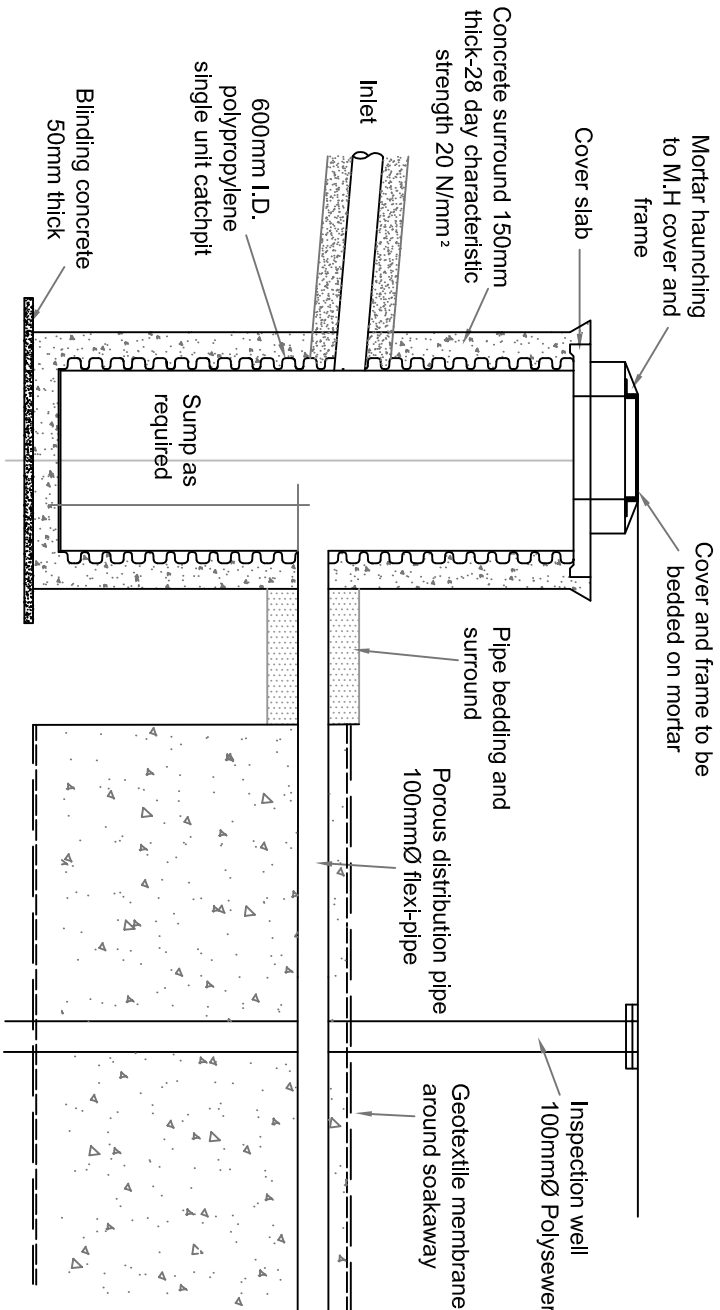
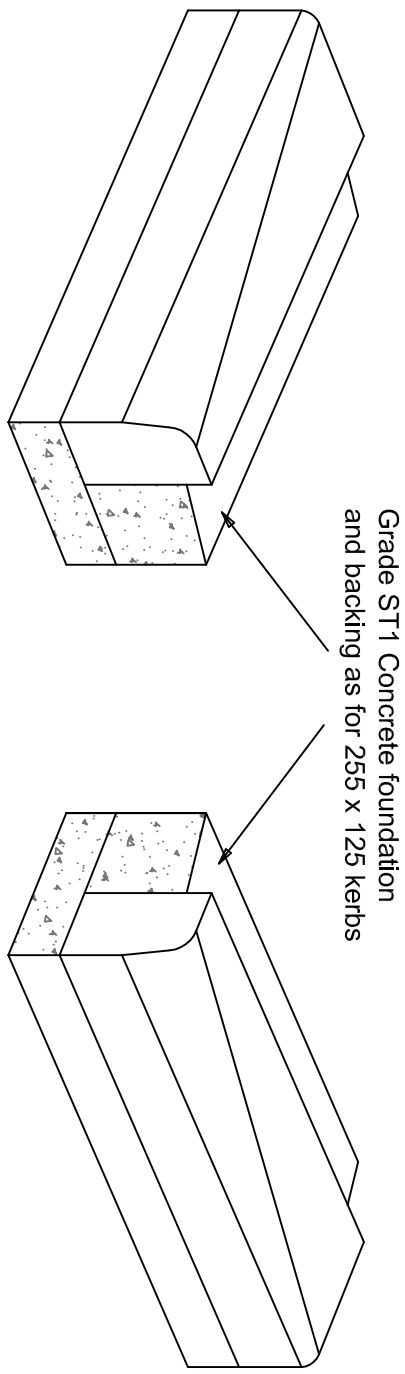
Kerbing



Gully Detail



- Notes:
- All Precast concrete kerbs and edgings to BS7263-3:2001
 - Concrete bed and haunching ST1 Mix to BS EN 206-1:2002 and BS8500 in accordance with SHWW Clause 2602
 - Kerbs and edgings may be laid directly on a fresh concrete bed within two hours of mixing, then haunching applied. Alternatively, when concrete bed has hardened, kerbs may be laid on a mortar bed.
 - Mortar to Clause 2404 designation (i), mortar to be 10 to 40mm thick.
 - Concrete bed to kerbs and edgings to rest on or within sub-base layer.
 - Granite kerbs to be min 150mm x 150mm Marshall's Square Edge
 - Granite kerbs 150 x150mm or similar.
 - Dowel bar to be used for strengthening to foundation and backing to kerbs where specified. They are bedded at 500mm centres. To be used in association with H81 kerbs.

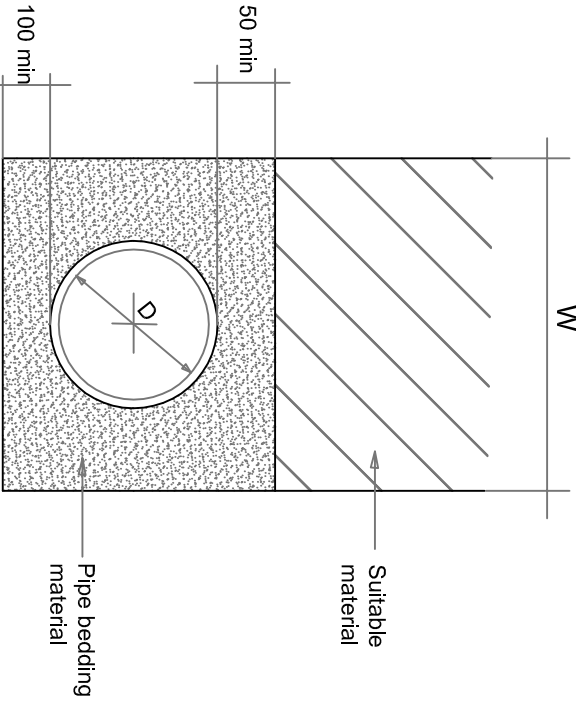
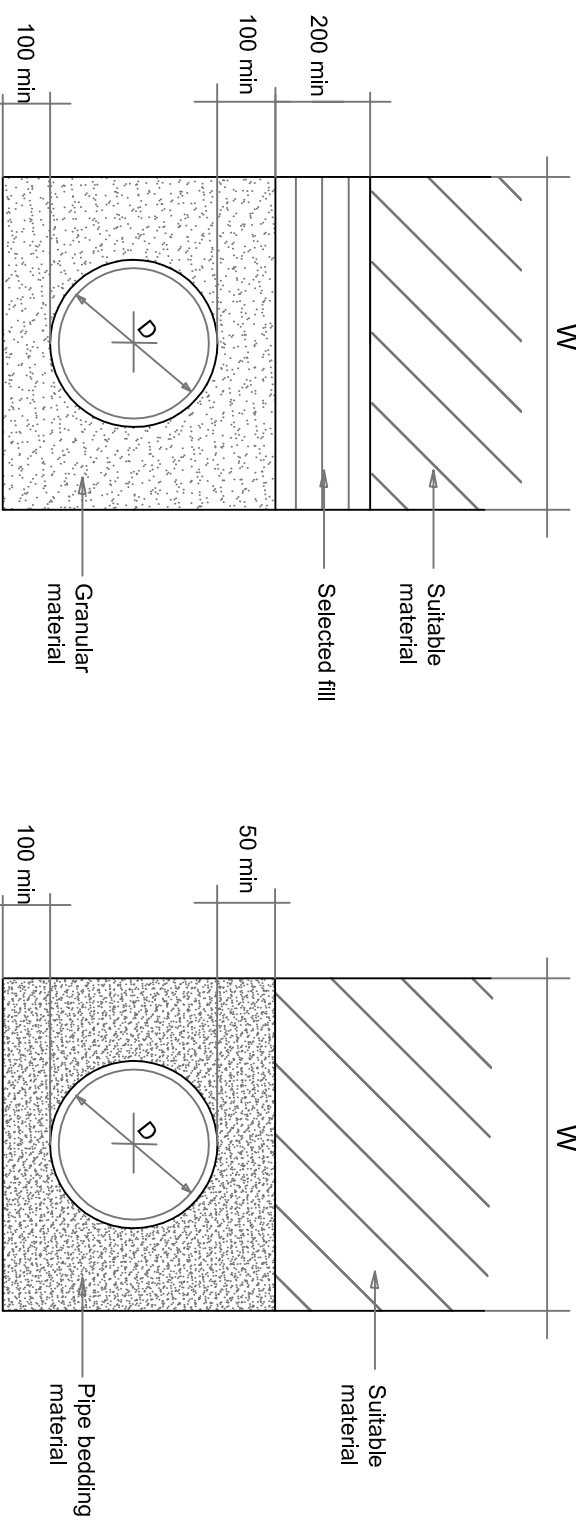


- Notes:
- CGM - close graded macadam
 - DBM - dense bitumen macadam
 - MGM - Medium graded macadam
 - Construction based on a formation CBR of 5%. If the CBR falls below this level refer to Engineer.
 - DTP - Clause refers to Department of Transport Specification for Highway Works.
- Capping Layers:
- A capping layer shall be provided where a CBR is less than 5%. This material shall be provided to 6F2 (DTP Specification Clause 613) If a capping layer is required the MCT Type 1 sub-base material may be reduced to 150mm minimum.
- | Sub-grade CBR | Capping Thickness (mm) |
|---------------|-------------------------------------|
| 450 | 450 |
| 3% | 450 |
| 2% | 600 |
| below 2% | A detailed design will be required. |
- A terrain or similar geotextile shall be provided where a CBR of 3% or less is achieved.

Proposed Carriageway Widening/Passing Area Construction

- 45mm CGM Surface Course to BS4987-1:2005 Clause 7.3 (DTP Specification Clause 912).
- 55mm DBM Binder Course to BS4987-1:2005 Clause 6.5 (DTP Specification Clause 906).
- 100mm DBM Roadbase to BS4987-1:2005 Clause 5.2 (DTP Specification Clause 903).
- 250mm MCT Type 1 Sub-base Material to DTP Specification Clause 603.

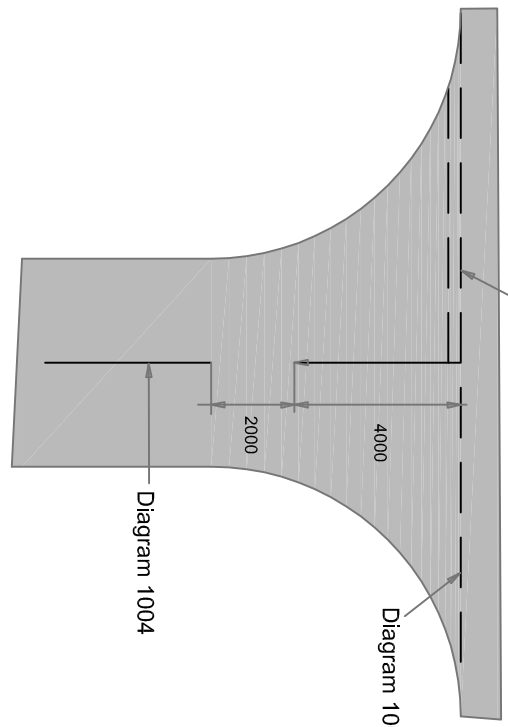
PIPE BEDDING NOTES - RIGID PIPES



PIPE BEDDING NOTES - FLEXIBLE PIPES

- Notes:
- Gully pot placed in position with temporary cover
 - All pavement courses laid except surface (wearing course)
 - Pavement excavated no more than 200mm beyond sides of gully grating and frame fixed.
 - Excavation backfilled with ST4 concrete to underside of wearing course.
 - Gully Grating and Frame
 - Gully Grating & frame to BS EN 124:1994 as amended by BS7903
 - Class D400, 450mm nominal width, min bedding width of frame 75mm.
 - Lower order roads - Ductile iron, min frame depth 100mm
 - Single piece, hinged, non-rock
 - Brickwork beneath frame:
 - Class B Engineering bricks to BS3921, mortar to BS5628: part 3, Table 15 designation (i).
 - Gully:
 - Precast concrete gully to BS5911, or gully may be cast in situ using plastic gully as permanent integral shutter with minimum 150mm concrete surround.

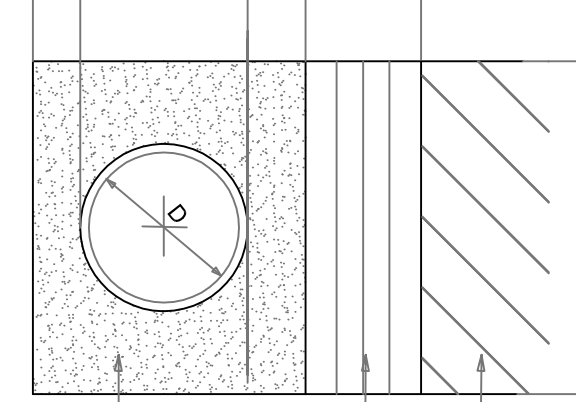
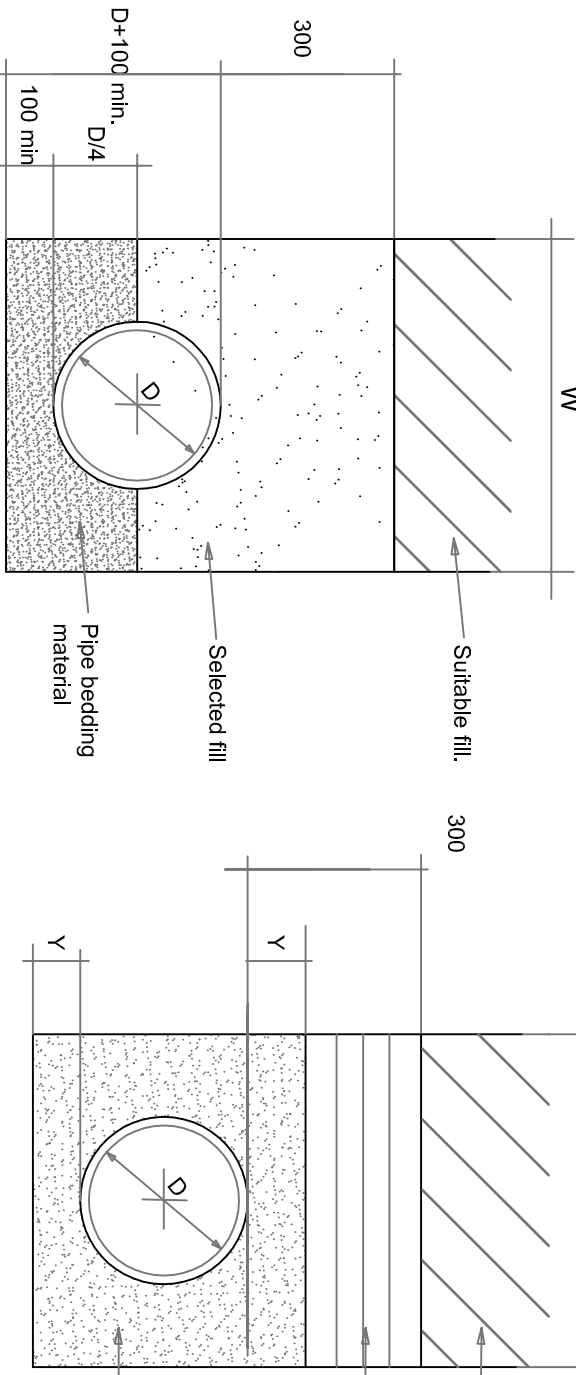
White Line Junction Markings



- Notes:
- All markings to comply with Traffic Signs Manual Chapter 5 - Road Markings 2003
 - The prescribed marking (diagram 1003) consists of two broken lines, each comprising 600mm marks and 300mm gaps. The lines are 200mm wide and spaced 300mm apart.
 - The prescribed marking (diagram 1009) consists of a broken line comprising 600mm marks and 300 gaps. The lines are 100mm wide.
 - The prescribed marking (diagram 1004) consists of a line 400mm long. The lines are 100mm wide.

FLEXIBLE PIPE BEDDING - CLASS S

FLEXIBLE PIPE BEDDING - CLASS B



Nominal Size of Pipe (mm)	Nominal Max Particle Size (mm)	Class of Bedding	Maximum CF Value	Materials Specified in British Standard
Over 300 to 550	20	S B F	0.15 0.30 0.15	14 - 20mm nominal single-size or 14 - 5mm graded or 20 - 5mm graded
Over 550	40	B F	0.15 0.15	14 - 20 or 40mm nominal single-size or 14 - 5mm graded or 20-5mm graded or 10 - 5mm graded

The Table (A1 from WIS 440-42) shows specification for processed granular material. Processed granular material may include aggregates to BS 882, air-cooled blast furnace slag to BS 1047 and untreated pulverised fuel ash to BS 3767.

As-dug material is excavated material which is suitable for use as bedding and sidefill without processing. It shall not be contaminated with domestic, building or industrial waste and shall be free of organic matter or combustible material.

Nominal Size of Pipe (mm)	Nominal Max Particle Size (mm)	Maximum CF Value	Materials Specified in British Standard
100	10	0.15	10mm nominal single-size
Over 100 to 150	15	0.15	10 or 14mm nominal single size or 14 - 5mm grade
Over 150 to 300	20	0.15	10, 14 or 20mm nominal single-size or 14 - 5mm graded or 20-5mm graded.

The Table (A2 from WIS 440-42) shows specification for processed granular material. Processed granular material may include aggregates to BS 882, air-cooled blast furnace slag to BS 1047 and lightweight aggregates to BS 3767.