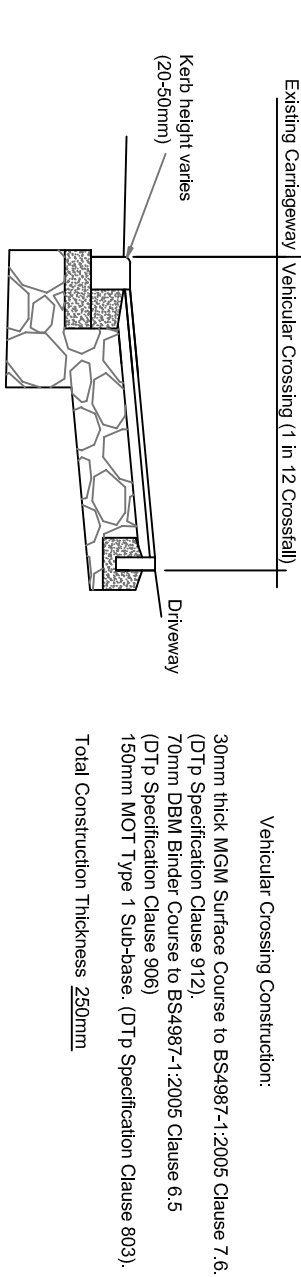
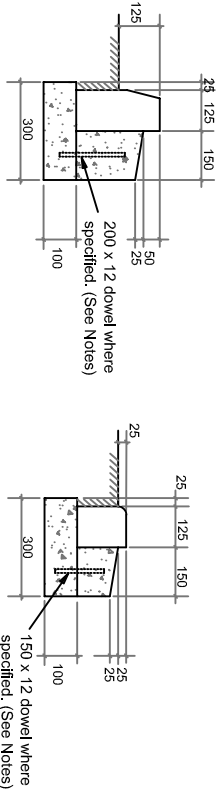


Vehicular Crossing Construction

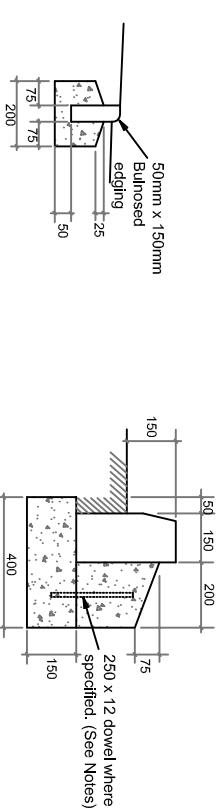


Kerbing



Half Battered Kerb: Type HB2 (255mm x 125mm)

Bullnosed Kerb: Type BN (150mm x 125mm)



Bullnosed Edging Kerb: Type EBN

Half Battered Kerb: Type HB1 (305mm x 150mm)

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

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.

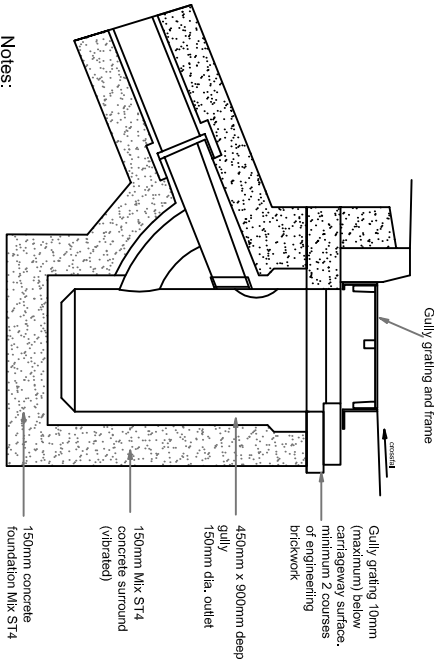
Brickwork beneath frame:

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 insitu using plastic gully as permanent integral shutter with minimum 150mm concrete surround.

Gully Detail



PIPE BEDDING NOTES - RIGID PIPES

Bc = External pipe diameter

W = Trench width (Bc + 300mm min, Bc + 600 max)

Y dimension - For pipes upto 600 mm diameter, Y = 100mm over and under pipe increases to 1/6 Bc or 100mm under barrels & 50mm min, under sockets whichever is greater (400mm max).

In rock etc use 1/4 Bc & 150mm min, under sockets. (400mm Max.)

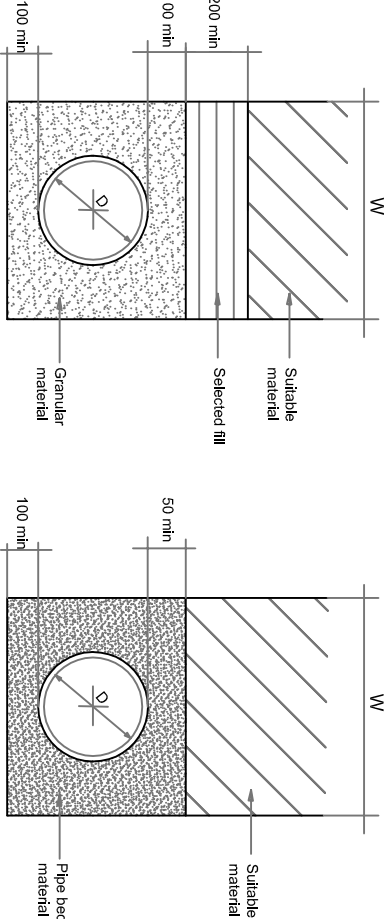
Bedding and sidefill material shall be placed and compacted in layers not exceeding 150mm before compaction, to a finished thickness of 300mm above the crown of the pipe.

Subsequent backfilling shall be deposited in layers not exceeding 225mm and fully compacted.

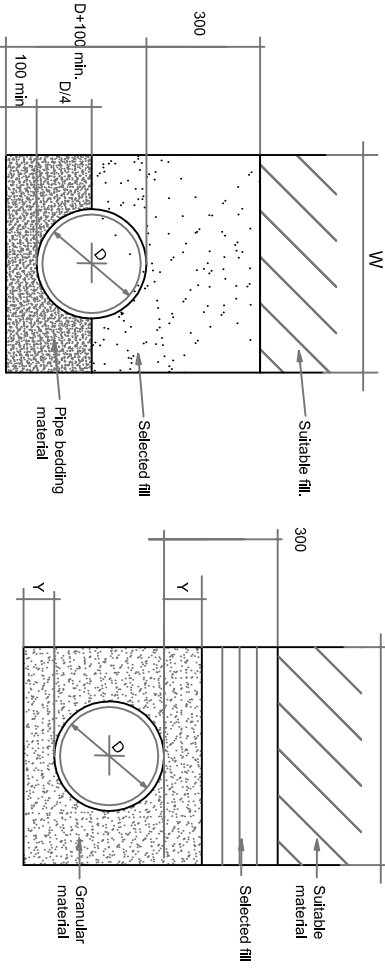
Selected fill should be readily compactible, and should not contain stones larger than 40mm, lumps of clay over 75mm, timber, frozen material, vegetable matter or foreign matter.

Refer to table for specification for granular material.

FLEXIBLE PIPE BEDDING - CLASS B



FLEXIBLE PIPE BEDDING - CLASS S



RIGID PIPE BEDDING - CLASS B

RIGID PIPE BEDDING - CLASS S

BEDDING AND SIDEFILL MATERIAL FOR RIGID PIPES

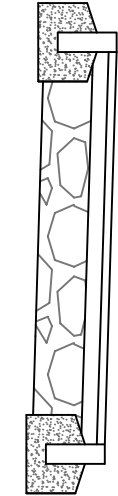
Nominal Size of Pipe (mm)	Nominal Max Particle Size (mm)	Class of Bedding	Maximum CF Value	Materials Specified in British Standard
Over 300 to 550	20	S B F	0.15 0.30 0.15	14 - 20mm nominal single-size or 14 - 5mm graded or 20 - 5mm graded
Over 550	20	S B F	0.15 0.30 0.15	14, 20, or 40mm nominal single-size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

The Table (A1 from WIS 4-06-02), shows specification for processed granular material. Maximum particle size and compaction fraction must also apply to as-dung material.

Processed granular material may include aggregates to BS 882, air-cooled blast furnace slag to BS 1047 and sintered pulverised fuel ash to BS 3797

As-dung 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.

Vehicular Crossing Construction

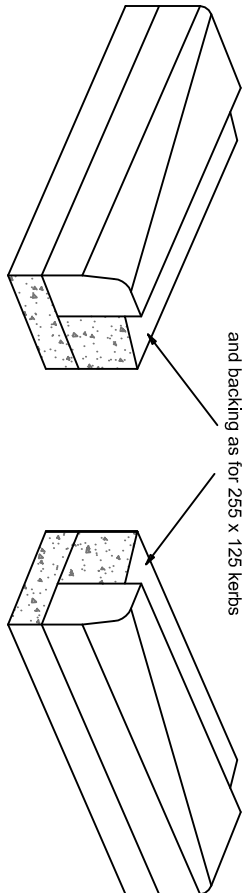


Driveway Construction

Driveway Construction:

30mm thick M&M Surface Course to BS4987-1:2005 Clause 7.6. (DTP Specification Clause 912).
80mm DBM Binder Course to BS4987-1:2005 Clause 6.5 (DTP Specification Clause 906)
225mm MOT Type 1 Sub-base. (DTP Specification Clause 803).

Total Construction Thickness 335mm



Dropped (Transition) Kerb Type: DR1 and DL1 (HB - BN)

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 thickness.
- Concrete bed to kerbs and edgings to rest on or within sub-base layer.
- 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 HB1 kerbs.

PIPE BEDDING NOTES - FLEXIBLE PIPES

Bc = External pipe diameter

W = Trench width (Bc + 300mm min, Bc + 600 max)

Bedding and sidefill material shall be placed and compacted in layers not exceeding 100mm. Hand tamp the material fully at the sides of the pipe while tamping lightly over the crown.

Continue hand tamping until a finished layer of 300mm has been placed over the pipe.

Subsequent backfilling shall be deposited in layers not exceeding 225mm and fully compacted.

Selected fill should be readily compactible, and should not contain stones larger than 40mm, lumps of clay over 75mm, timber, frozen material, vegetable matter or foreign matter.

Refer to table for specification for granular material.

BEDDING AND SIDEFILL MATERIAL FOR FLEXIBLE PIPES

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 4-06-02), shows specification for processed granular material. Processed granular materials may be included aggregates to BS882, air-cooled blast furnace slag to BS 1047 and lightweight aggregates to BS 3797.

Woodsyde Developments Limited
(Incorporating Andrew Gough Development Consultant)

Project:
Proposed Residential Development on land adjacent Willington Grange, Horseman's Green
Client:
Mr C Evans
Drawing Title:
Road and Drainage Construction Details
Scale:
NTS @ A3
Date:
August 2014
Drawing No:
WG-RC-601

The Poppies, Lower Road, Hammer Hill, Shropshire, SY4 3QX
Tel: 01939 290483 Mob: 07527 352084
email: andrew@awgough.co.uk