

DOT Type 1 sub base

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(thickness varies) or concrete surround

Minimum internal dimensions

450mmø or 450mmx450mm

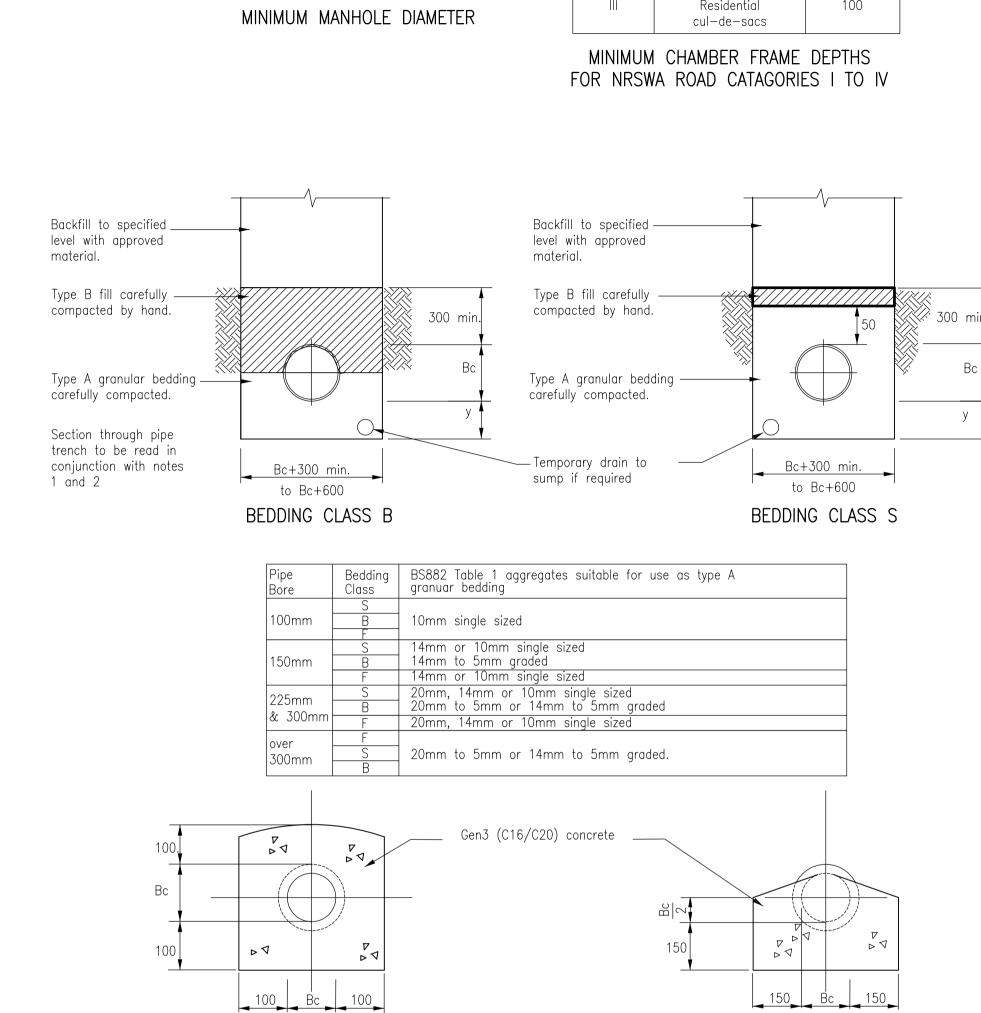
Base unit to have all connections

with soffit levels set no lower

than that of the main pipe

Granular bedding material

(thickness varies)



NOMINAL DIA OF SEWER (mm) | MH DIA (mm)

1200

1350

1500

1800

PIPE DIA

+ 900

LESS THAN 375mm

GREATER THAN 900

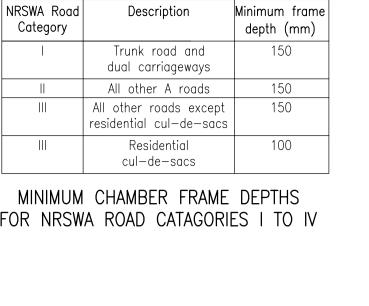
CONCRETE SURROUND

CLASS Z

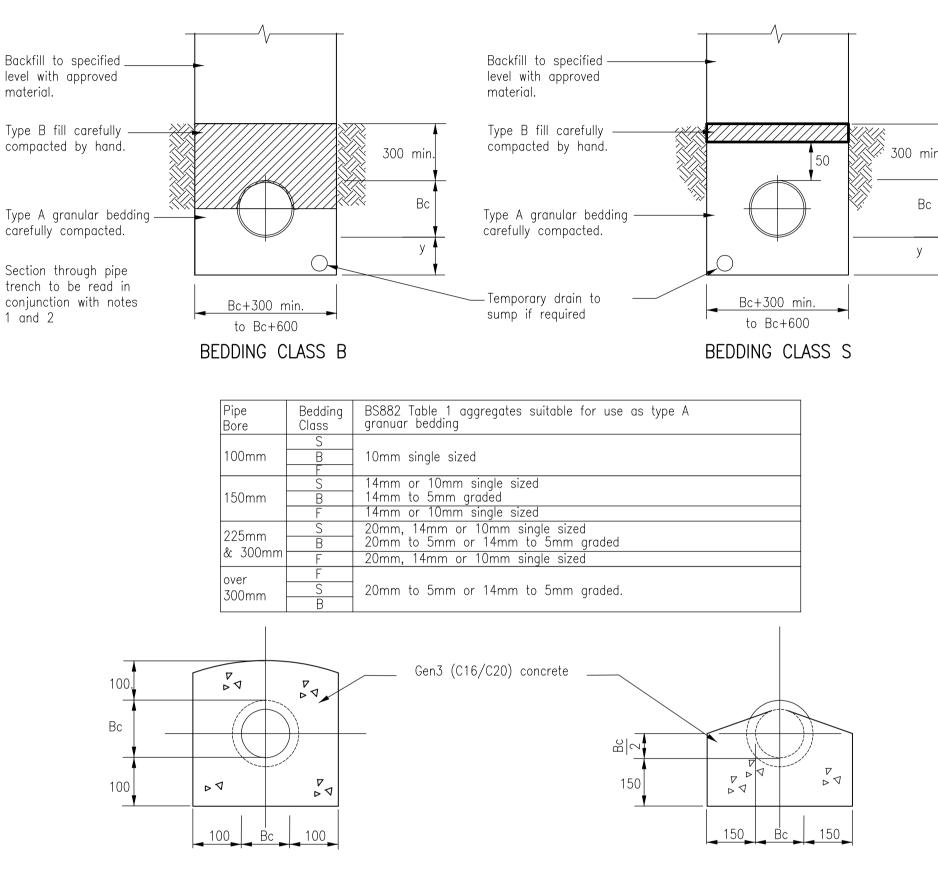
375 TO 450

500 TO 700

750 TO 900



CONCRETE BED AND HAUNCH



Pipe Bedding

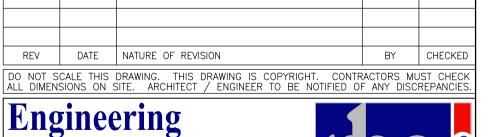
- 1. All dimensions are in millimetres
- 2. For highway drains Type Z bedding required for pipes <900mm cover, crown to surface.
- 3. For adoptable sewers Type Z bedding required for pipes <1200mm cover, crown to surface where beneath a road/highway (see also B3.10 SFA 7th Edition)
- 4. Legend
- D = Internal dia of pipe Bc = External dia of pipe
- Bd = Trench depth H = Cover depth
- Y = Depth of granular bedding
- Thickness of granular bedding under pipe barrels,
- (1) rock or mixed soils containing rock bands, boulders, large flints or stones or other irregular hard spots.
- $Y = \frac{Bc}{4}$ (200mm min)
- Thickness of granular bedding under sockets 150mm
- (2) In uniform soils,
- $Y = \frac{Bc}{6}$ (100mm min)
- Thickness of granular bedding under sockets 50mm.

Notes

- 1. All dimensions in millimetres unless stated otherwise
- 2. This drawing to be read in conjunction with all other drawings referred to on the drawing issue sheet
- 3. Positions of Statutory Undertakers equipment to be determined on site based on service enquiry information and topographical data. Exact position and depths of buried services including private connections and spurs to be determined and identified on site. Any services crossing the proposed route of the sewers to be protected during the works and reinstated in accordance with the Statutory Undertakers requirements.
- 4. All proposed levels to be checked and confirmed on site by the contractor prior to commencement of works. Any discrepancies to be reported to the engineer immediately. All downstream levels to be checked and confirmed by the contractor prior to construction of any upstream drainage.
- 5. For Adoptable Sewers: materials should comply with requirements of part E sections E2.21 and E2.22 of SfA7.
- 6. All precast concrete sections / slab and in situ concrete to be GEN3 designed to BRE Special Digest 1 Concrete in Agressive
- 7. Class Z concrete bedding required where cover <1.2m in the carriageway,
- <0.9m in private shared access roads / drives & agricultural
- <0.35m in domestic gardens / paths (un-trafficked)

Compressible filler required at all joints in accordance with SFA7 Fig B27 throughout depth of concrete surround, class S bedding

PRELIMINARY



Consultancy





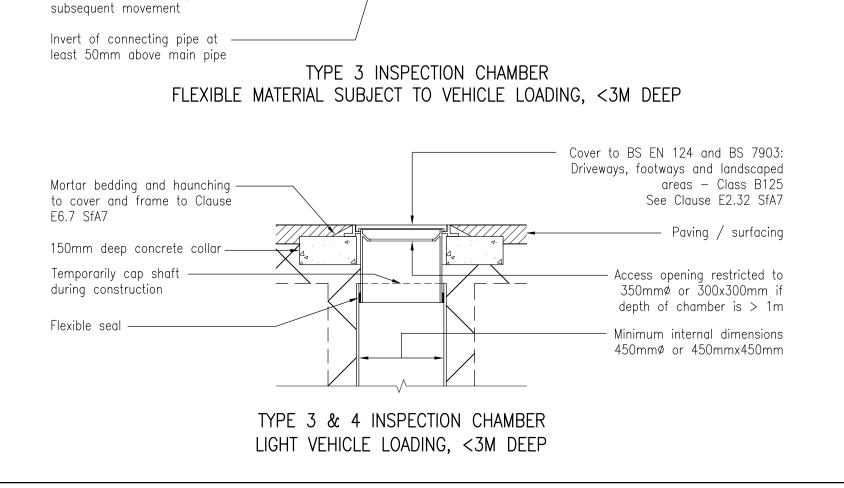
RBA Ltd, 26 Mostyn Road, Colwyn Bay, Conwy LL29 8PB

BERNEL LTD

DEVELOPMENT ON LAND AT SUGAR STREET, RUSHTON SPENCER

CONSTRUCTION DETAILS: TYPICAL MANHOLE DETAILS

NTS $||A1||_{\text{RGLR}}^{\text{DRAWN}}|_{\text{CHKD}}^{\text{CHKD}}|_{\text{DATE}}$ $||S||_{\text{ES}}^{\text{S}}|_{\text{S}}^{\text{D}}|_{\text{S}}^{\text{D}}$ $||S||_{\text{C}}^{\text{S}}|_{\text{C}}^{\text{D}}$



in-situ concrete slab to support cover and frame

Temporarily cap shaft

Joint between base and shaft and

between shaft components to be

practicable to face of manhole

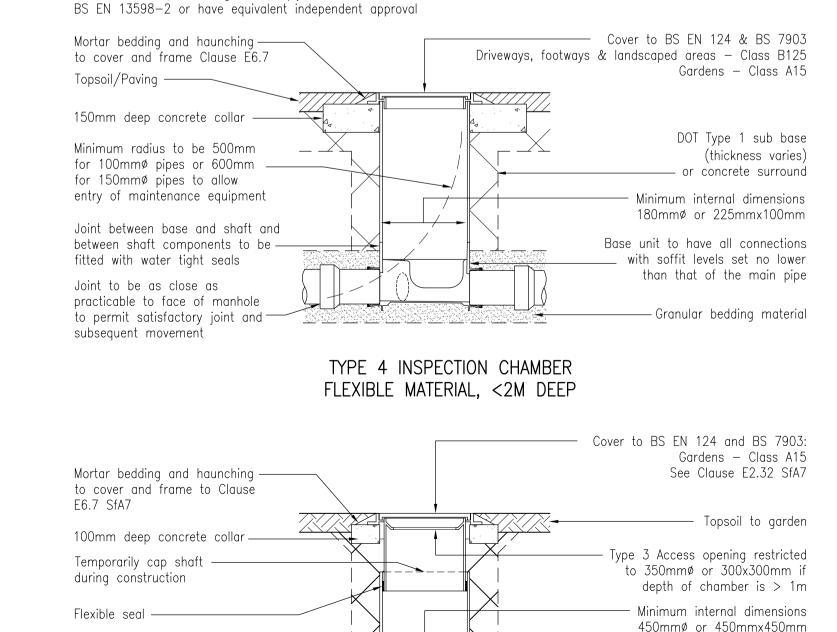
to permit satisfactory joint and —

fitted with water tight seals

Joint to be as close as

during construction

Flexible seal



TYPE 3 & 4 INSPECTION CHAMBER

DOMESTIC GARDENS, <3M DEEP

Plastic chambers and rings to comply with BS EN 13598-1 and