

ADOPTABLE MANHOLE DETAIL - TYPE 2
Maximum depth from cover level to soffit of pipe 3.0 m

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1. Do not scale.
2. Refer to all other Project Drawings.
3. All sewers to comply with the requirements of the water authorities publication "Lower Sector Guidance (SS6)" together with Southern Water Technical Advisories.
4. All public sewers are to be the subject of a Section 104 agreement of the Water Industry Act 1991.
5. Invert levels of existing manholes and sewers are to be checked on site before construction commences and recorded on the project drawings.
6. All manhole ironworks to comply with BS EN1241, and be stamped with BSI Kitemark. Covers to suit loading as below:
 - Carriageways and Roads - D400
 - Driveways and Verges - C250
 - Footways and Pedestrian Areas - B125
 - Gardens/Landscaping - A15
7. All sewer pipes, up to, and including 225mm are to be vitrified clay to BS EN504. For larger pipes 300mm diameter and above to concrete pipes to BS EN1916.
8. All drainage shall be installed and tested strictly in accordance with the Manufacturers' printed instructions, BS EN 752, BS EN1601, Local Water Authority requirements and the Building Regulations.
9. All bedding shall be Class 5 unsorted otherwise.
10. All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted Type 1 granular sub-base material.
11. Drainage drains beneath roads and areas of vehicular access (car parking etc) with less than 1200mm of cover shall be encased in concrete bed and surround with associated movement joints. Drainage laid beneath paths, footways and pedestrian areas with less than 900mm of cover shall be properly treated.
12. Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
13. The use of uncast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
14. All gully connections to use a minimum diameter pipe of 150mm and to be surrounded by a minimum of 150mm of 10/20 coarse aggregate (maximum length which should not exceed 15m) and its connection to the carrier system.

A	12/20	First Issue	DS	SM
Rev	Date	Description	Drawn	Checked



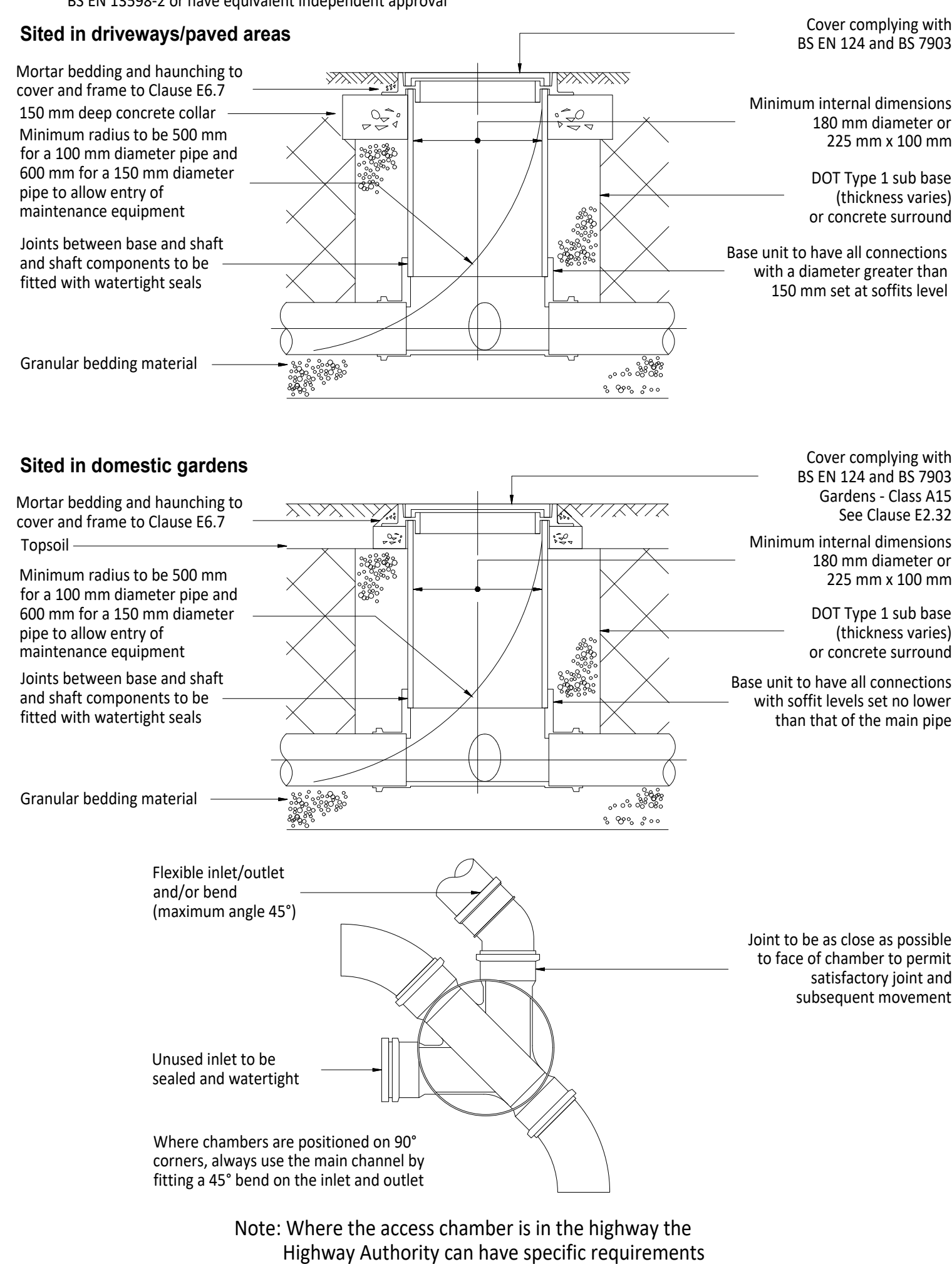
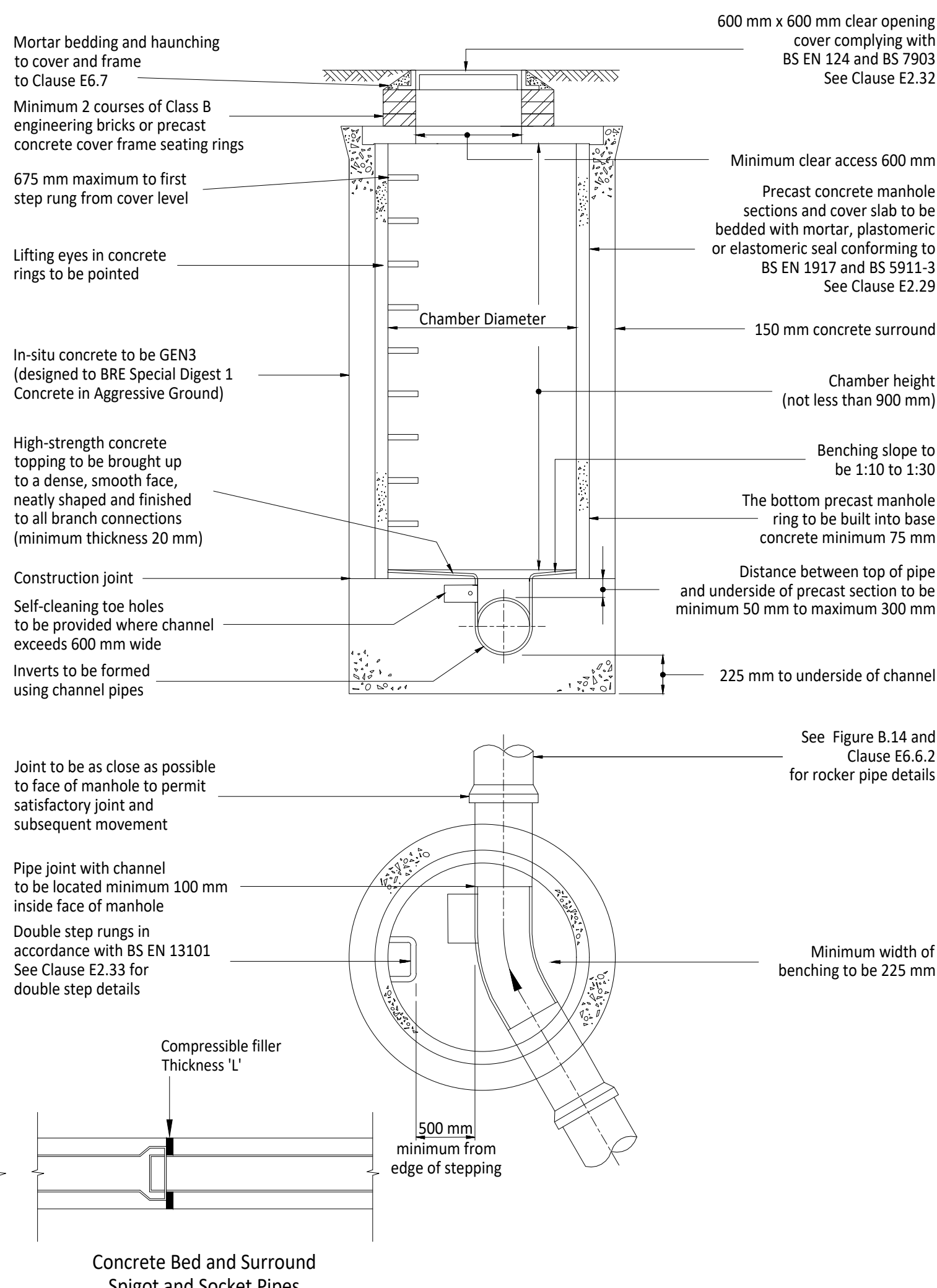
Project

WATER LANE, ANGMERING

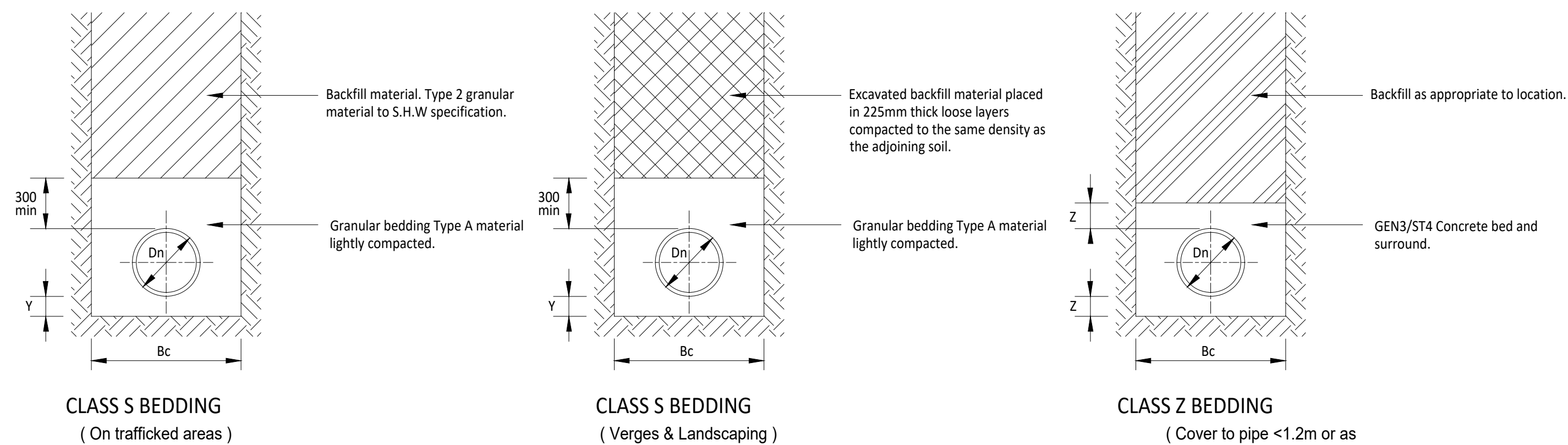
Status

FOR TENDER

Scale AS SHOWN@A1	Date DEC 20	Drawn DS	Checked SM
Drawing No A290-612			CIV-1-4062 A Revision A



Maximum depth from cover level to soffit of pipe in areas subject to vehicle loading 3 m, non-entry



Dia Dn (mm)	Width Bc (mm)		Y(mm)		L(mm)	Z MIN (mm)	
	Max	Min	Y1 (Uniform Soil)	Y2 (Rock)			
100	550	450	100	200	18	150	
150	600	490	150	200		150	
225	700	580	150	200		150	
300	750	680	150	200		36	150
375	1050	950	150	200			150
450	1150	1030	150	200			150
525	1200	1120	150	200	54		150
600	1350	1240	150	200			150
675	1450	1330	150	200			225
750	1500	1400	150	200		400	225
825	1600	1490	150	225			225
900	2100	1900	150	225			225
975	2150	1950	175	250	300		
1050	2250	2050	175	275	300		
1200	2500	2250	200	300	300		
OVER 1200	O.D+1000	O.D+800	I.D/6	I.D/4	54	400	

Selected fill material, whether selected from locally excavated material or imported, shall consist of uniform, readily compactible material, free from vegetable matter, building rubbish and frozen material, or materials susceptible to spontaneous combustion, and excluding clay of liquid limit greater than 80 and/or plastic limit greater than 55 and materials of excessively high moisture content. Clay lumps and stones shall be retained on 100mm and 40mm sieves respectively.

Manhole cover to suit BS EN 124 loading
Refer to MH Schedules for Class
minimum 300 mm x 300 mm clear opening

Surface course
Blinder course
Base course

Cover slab with
access opening restricted
to 350 mm diameter or
300 mm x 300 mm if depth
of chamber to invert is > 1 m

Precast concrete sections to
be jointed with elastomeric
or plastomeric seals

Minimum internal dimensions
450 mm diameter
or 450 mm x 450 mm

DOT Type 1 sub base
(thickness varies)
or concrete surround

Base unit to have all
connections with soffit
levels set no lower than
that of the main pipe

Joint to be as close as possible
to face of chamber to permit
satisfactory joint and
subsequent movement
See Figure B.14 and
Clause E6.6.2
for rocker pipe details

Invert of connecting pipe at least
50 mm above that of the main pipe

100 mm precast base
or 150 mm in-situ formed

Granular bedding material

Pipes built into chamber
wall or joint formed with
watertight seals

Temporarily cap manhole
shaft during construction

DOT Type 1 sub base
(thickness varies)

1-4 precast concrete cover
frame seating rings with
350 mm diameter or
300 mm x 300 mm opening
or class B engineering bricks

Mortar bedding and haunching to
cover and frame to Clause E6.7