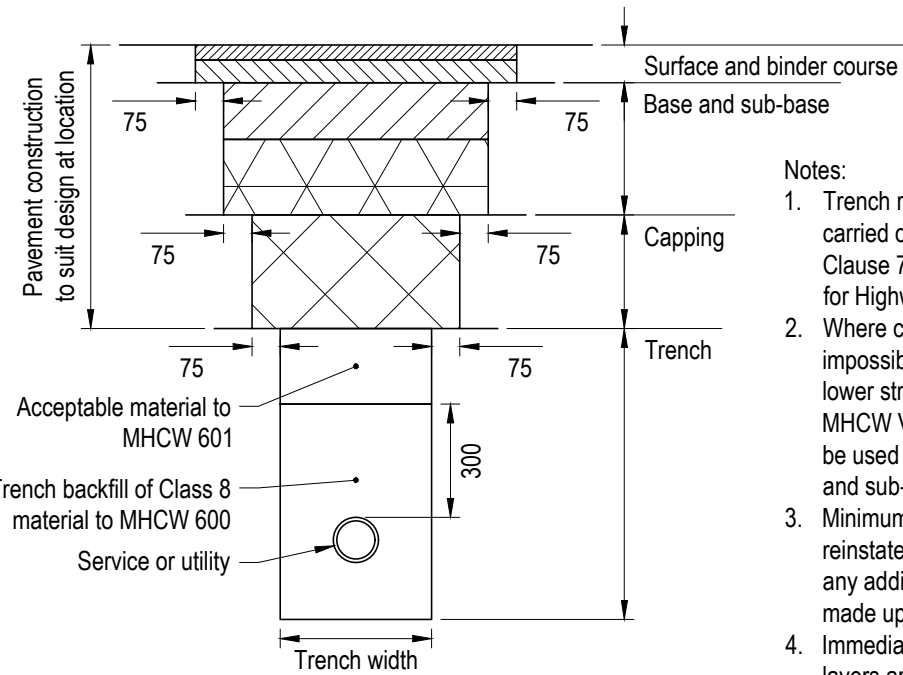
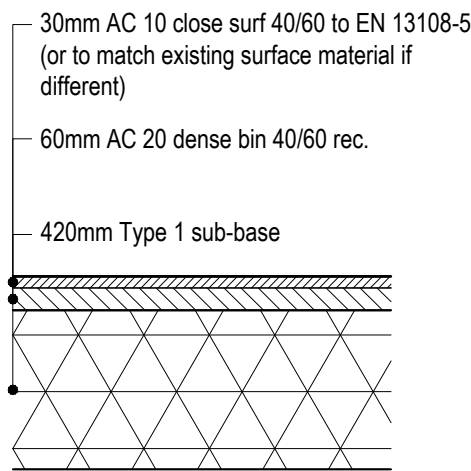




TRENCH REINSTATEMENT BITUMINOUS PAVEMENT

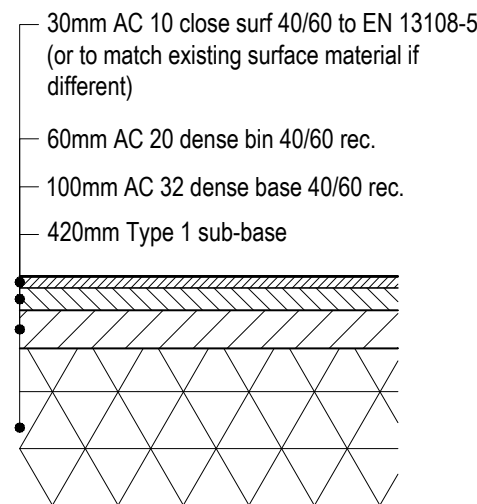
Design code: MHCW Vol 1 Clause 706
(Scale 1:20)

- Notes:
- Trench reinstatements shall be carried out in accordance with Clause 706 of the Specification for Highway Works
 - Where compaction is made impossible due to trench width, lower strength concrete to MHCW Vol Clause 1030 may be used in place of capping and sub-base.
 - Minimum depth of reinstatement to be 450mm, any additional depth to be made up in Type 1 sub-base.
 - Immediately before bituminous layers are reinstated, the edges of existing material shall be cleaned of all loose material and be coated with an appropriate hot bituminous binder or equivalent treatment.



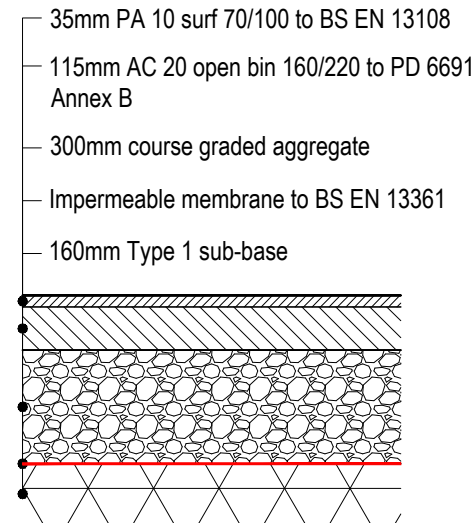
CAR PARK REINSTATEMENT

Design code: To match existing
Subgrade: CBR 2.5%



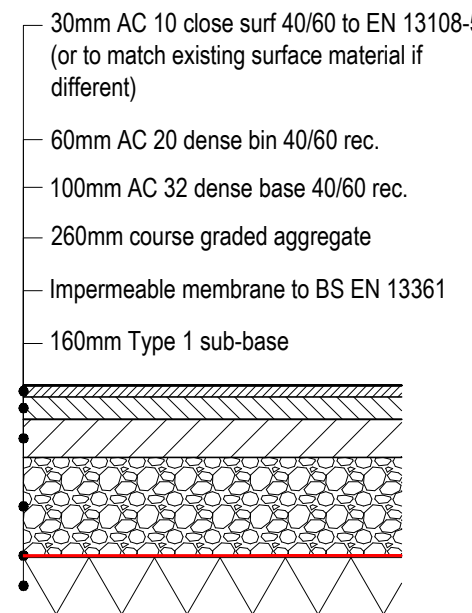
ASPHALT CAR PARK

With traditional sub-base
Design code: MPA Asphalt Applications
Traffic: Heavier usage
Subgrade: CBR 2.5%



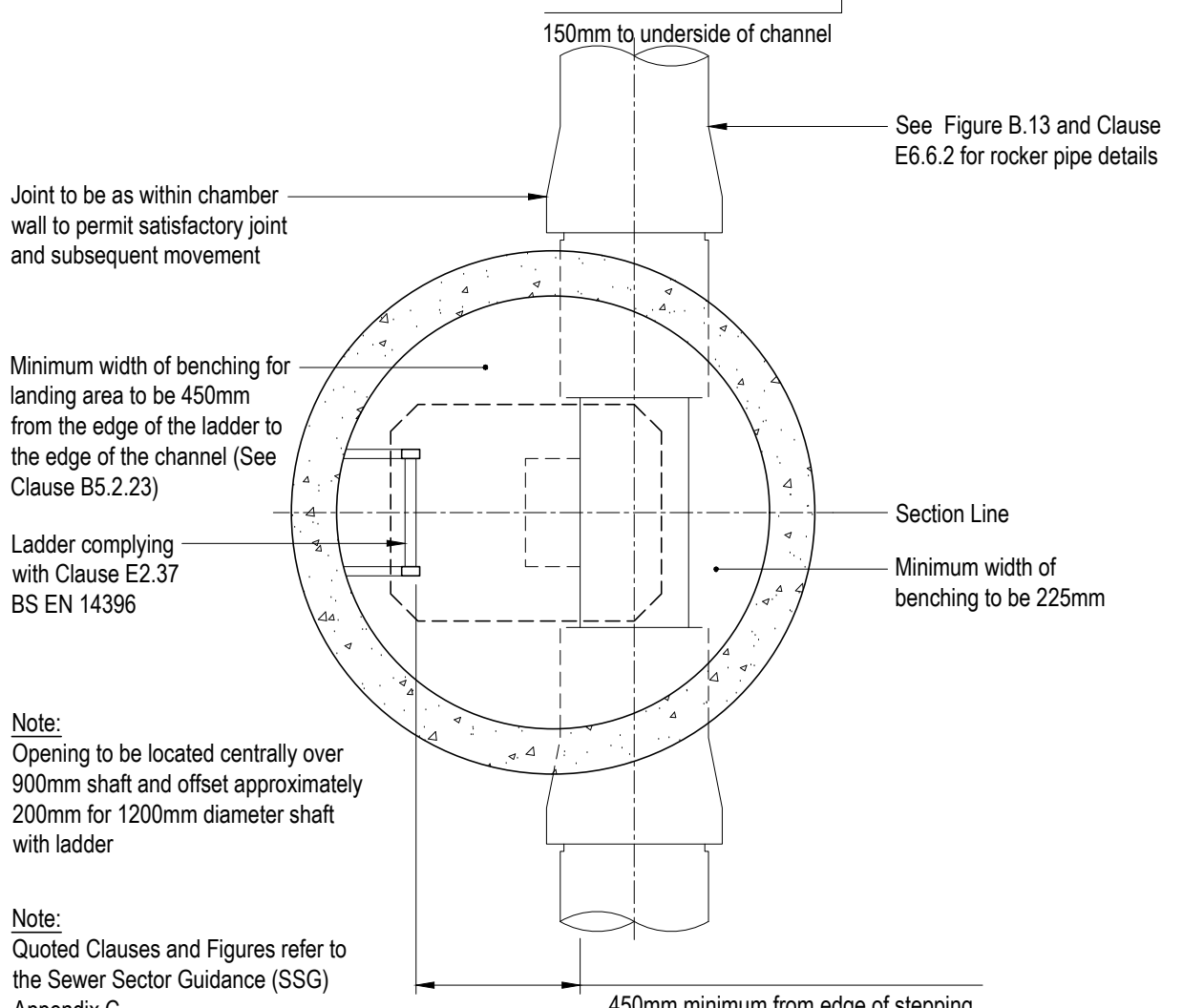
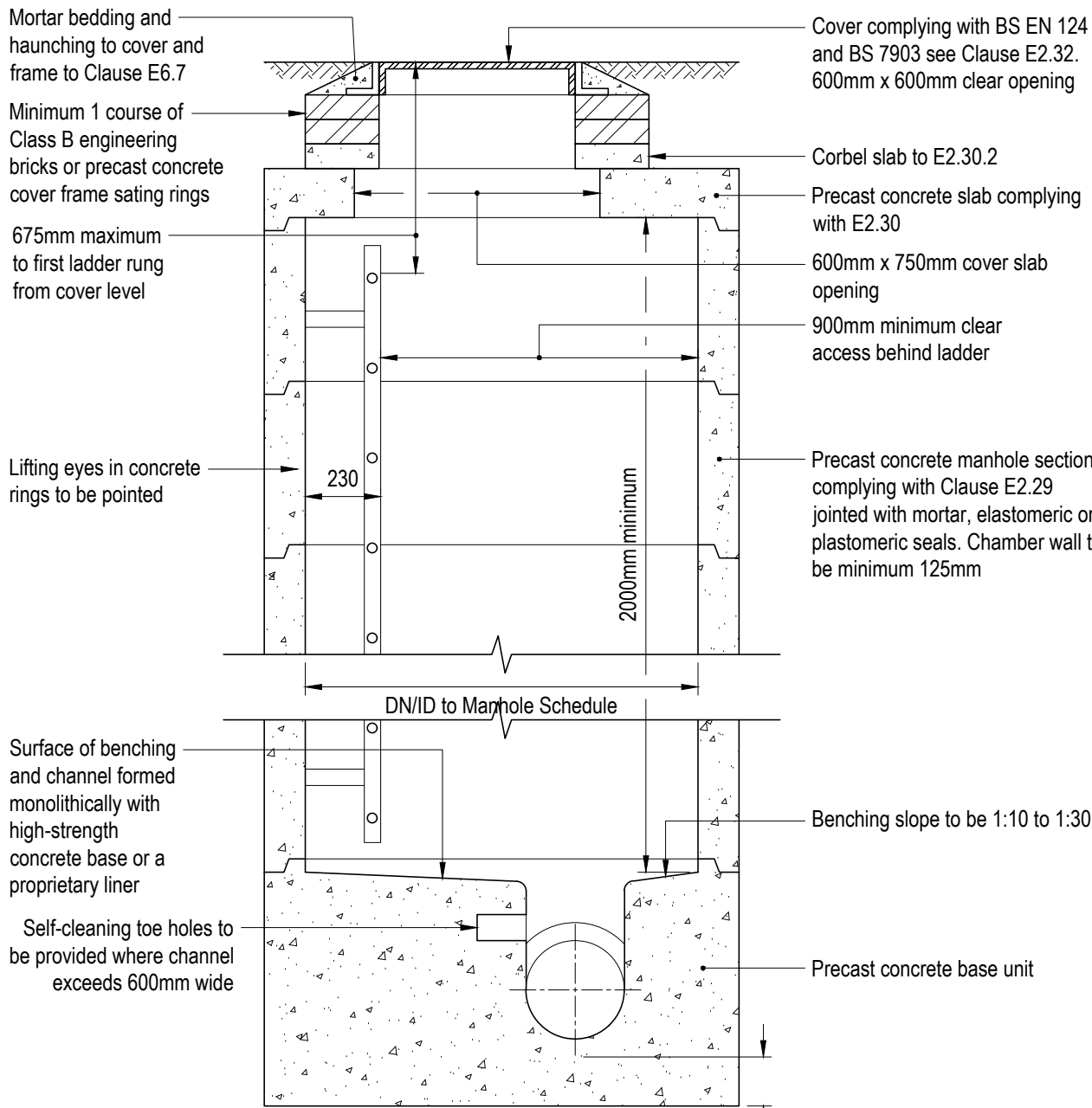
POROUS ASPHALT

Design code: C/IRIA C753 Chapter 20
Traffic: Category 4
Subgrade: CBR 2.5%



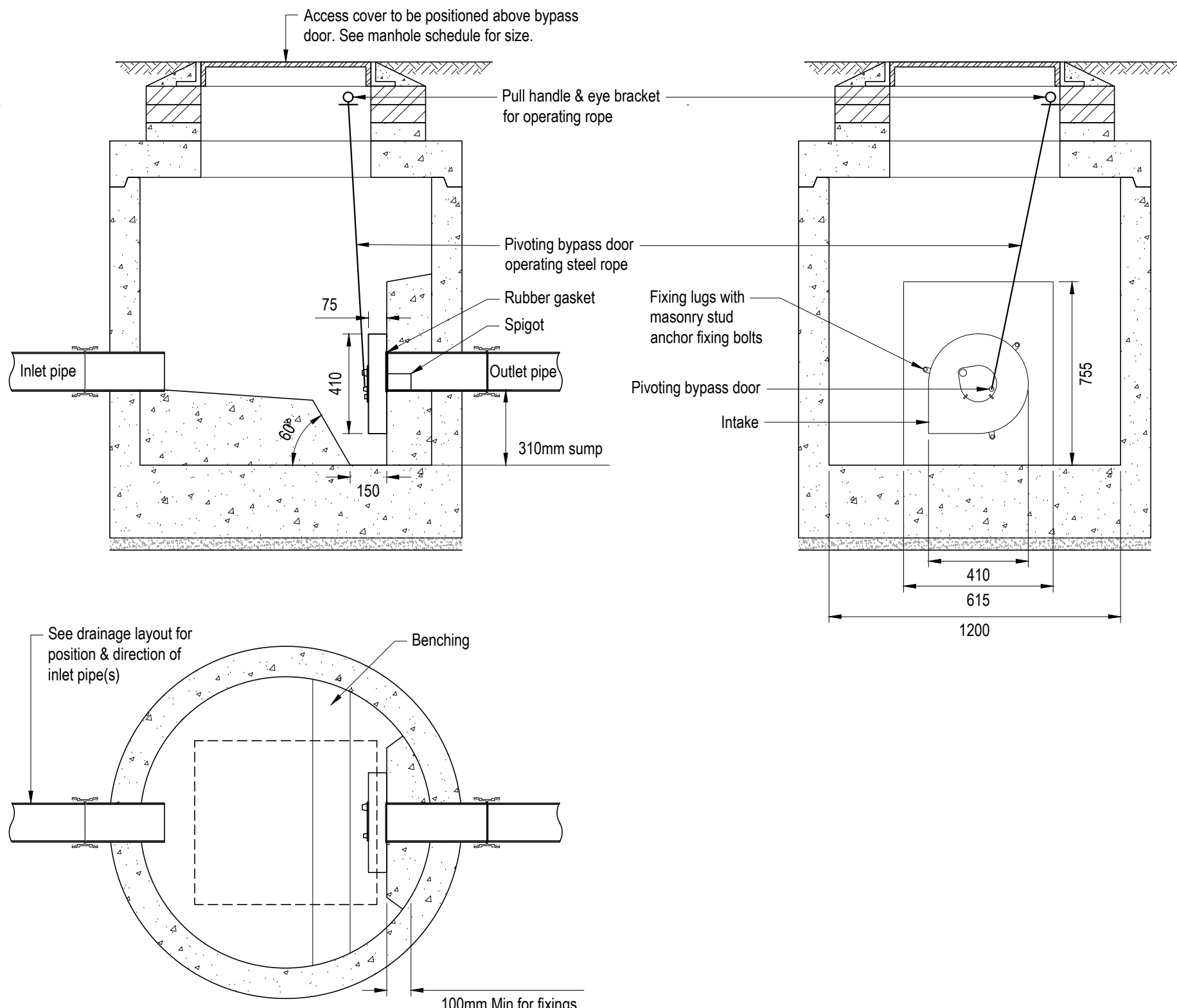
ASPHALT CAR PARK

With permeable sub-base
Design code: MPA Asphalt Applications
Traffic: Heavier usage
Subgrade: CBR 2.5%



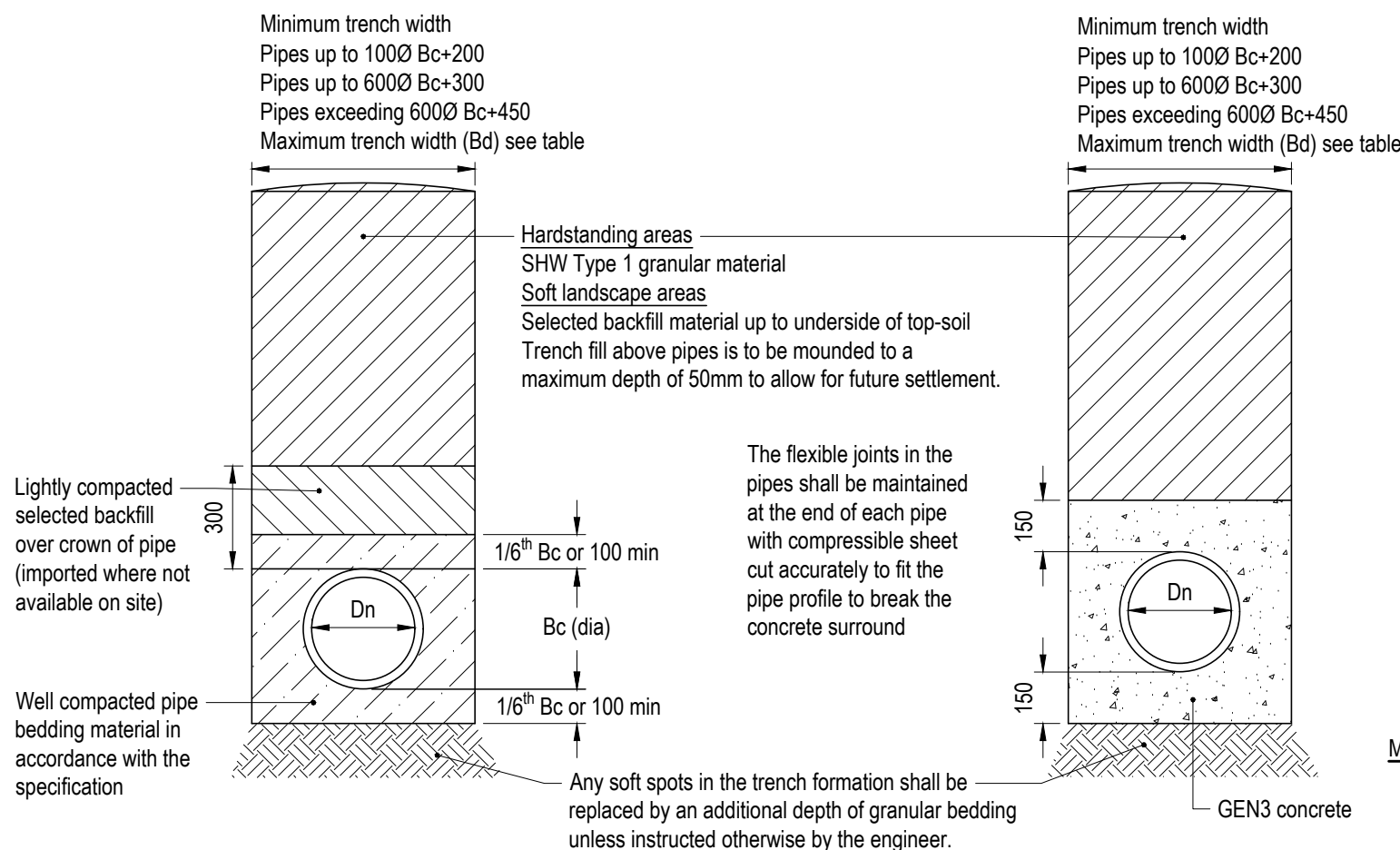
SSG APPENDIX C FIGURE B 6 TYPICAL MANHOLE DETAIL - TYPE A2

Depth from cover level to soffit of pipe 3m to 6m with ladder
rigid material construction without concrete surround
(Scale 1:20)



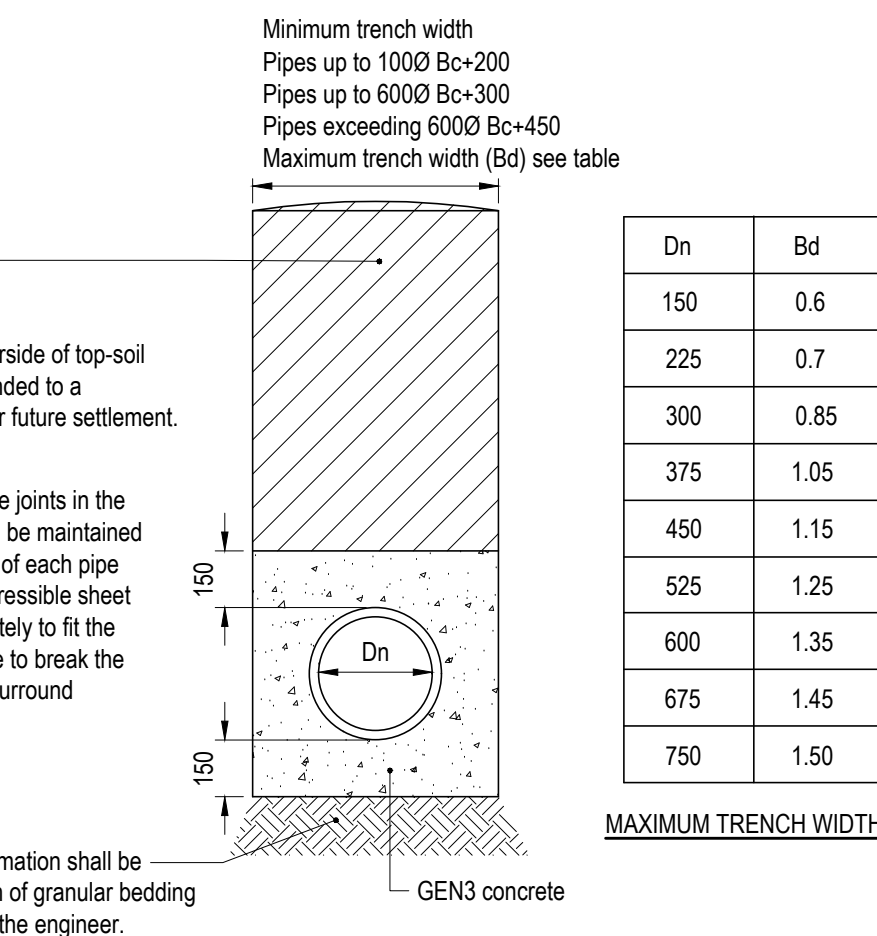
VORTEX FLOW CONTROL

To be installed in accordance with manufacturer's instructions
(Scale 1:20)



CLASS S - 360° GRANULAR SURROUND PIPE BEDDING DETAIL

(SCALE 1:20)



CLASS Z - CONCRETE BED AND SURROUND PIPE BEDDING DETAIL

Cover < 900mm in vehicular loading and open field.
Cover < 600mm elsewhere except under buildings.
(Scale 1:20)

Dn	Bd
150	0.6
225	0.7
300	0.85
375	1.05
450	1.15
525	1.25
600	1.35
675	1.45
750	1.50

MAXIMUM TRENCH WIDTH

GENERAL NOTES:

PAVING NOTES

- This drawing is to be read in conjunction with all relevant architects and engineers drawings and specifications.
- Do not scale this drawing. Any ambiguities, omissions or errors on drawings shall be brought to the engineers attention immediately. All dimensions must be checked / verified on site.
- All works and materials to be in accordance with current British Standards (BS) and Building Regulations.
- This drawing makes references to the below sections of Standards for Highways, which are freely available at standardsforhighways.co.uk
 - Design Manual for Roads and Bridges (DMRB)
 - Manual of Contract Documents for Highway Works (MHCW)
 - Specification for Highway Works (SHW)
 - Interim Advice Notes (IANs)
- The construction depths given are the minimum required (compacted).
- Subgrade California Bearing Ratio (CBR)**
 - All pavement constructions are based on an assumed CBR value of 2.5%, to be confirmed by insitu testing at formation.
 - It is recommended that CBR tests are carried out to confirm and sub-base adjusted in accordance with the capping and sub-base thickness table.
 - CBR test procedure is detailed within DMRB CD 225 and BS 1377-4.
 - Measured CBR value to be at formation level and to be a 'soaked' condition.
 - Any variations in ground conditions should be notified to the engineer prior to construction.

Pavement Foundations

- In areas where levels are to be raised, acceptable fill material is to be used to the underside of the proposed construction make up.
- The construction depths given assume formation is non-frost susceptible.
- Where formation is frost susceptible contractor to provide capping material to give a minimum 450mm overall construction thickness.
- Construction detail are for private areas only and not for adoptable highways.
- All sub-bases and capping layers to be graded and compacted to the SHW.
- No regulating or fill material has been included in construction build up, contractor to include for regulating/fill material in their rates.
- In areas where levels are to be lowered, existing construction is to be removed (full depth).

Pavement Materials

- Capping** material to be to SHW Clause 613 Sub-formation and Capping.
- Sub-base** material to be to SHW Clauses 803 (Type 1), 804 (Type 2), 806 (Category B) or 807 (Type 4). Type 1 is most commonly used.
- CGA** (Coarse Graded Aggregate) to be either Coarse Aggregate 4-40mm or 4-20mm to BS 7533-13:2009, or Type 3 to SHW Clause 805.
- AC** (Asphalt Concrete) to be to SHW Clause 900.
- Laying course for impermeable paving to be naturally occurring sand or mortar in accordance with BS 7533 requirements.

Information to be Confirmed

- Extent of highway boundary to be confirmed prior to commencement of works.
- The landscape architect's drawing has been used as a base for this plan. Please refer to the latest landscaping layout.
- Refer to landscape architects specification for surface finishes.
- Kerbing requirements/detail to be confirmed by landscape architect.
- Refer to landscape architects specification for jointing material. Consideration required of compatibility of jointing and bedding material and whether sub-surface drainage is required.

P03	REVISED TO DESIGN TEAM COMMENTS AND ADDED VORTEX FLOW CONTROL DETAIL.	10/11/22	AMB	CJS
P02	ADDED DRAINAGE DETAILS FOR PLANNING SUBMISSION.	04/11/22	AMB	CJS
P01	FIRST ISSUE SHOWING REINSTATEMENT WORKS.	24/10/22	AMB	-
Rev.	Description:	Date:	By:	Chkd:



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Status:	SUITABLE FOR INFORMATION	S2
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Client:	MORGAN SINDALL
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Project:	GORTON COMMUNITY HUB
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Orig Title:	LIBRARY SITE, CIVIL ENGINEERING CONSTRUCTION DETAILS SHEET 1
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Drawn By	Designed By	Checked By
AMB	AMB	PT
Date	21/10/2022	Scales @ A1 1:20 OR AS NOTED
Project No - Originator - Function - Spatial - Form - Discipline - Number	Revision	

GCH - CUR - XX - XX - DR - C - 90111	P03
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