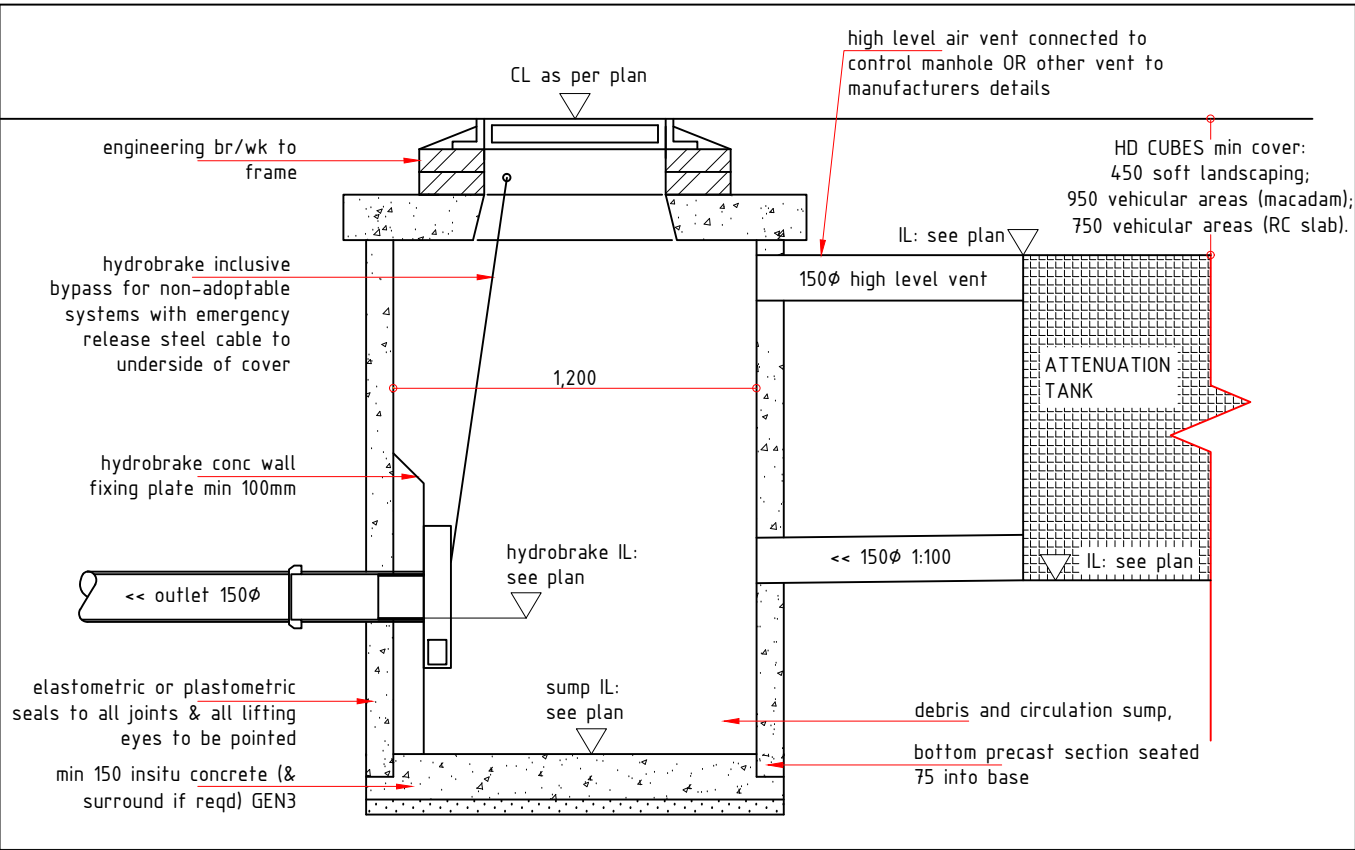
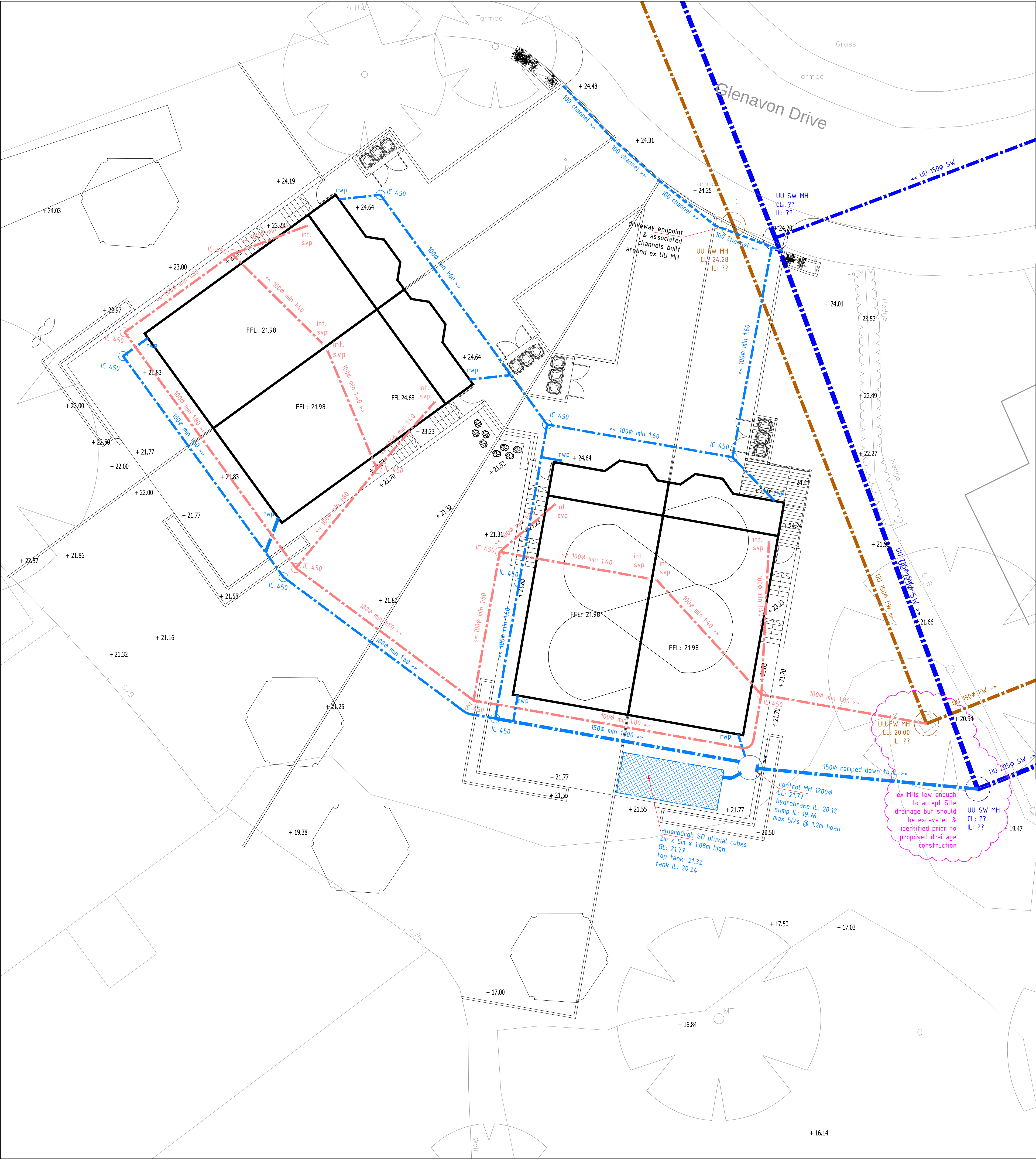
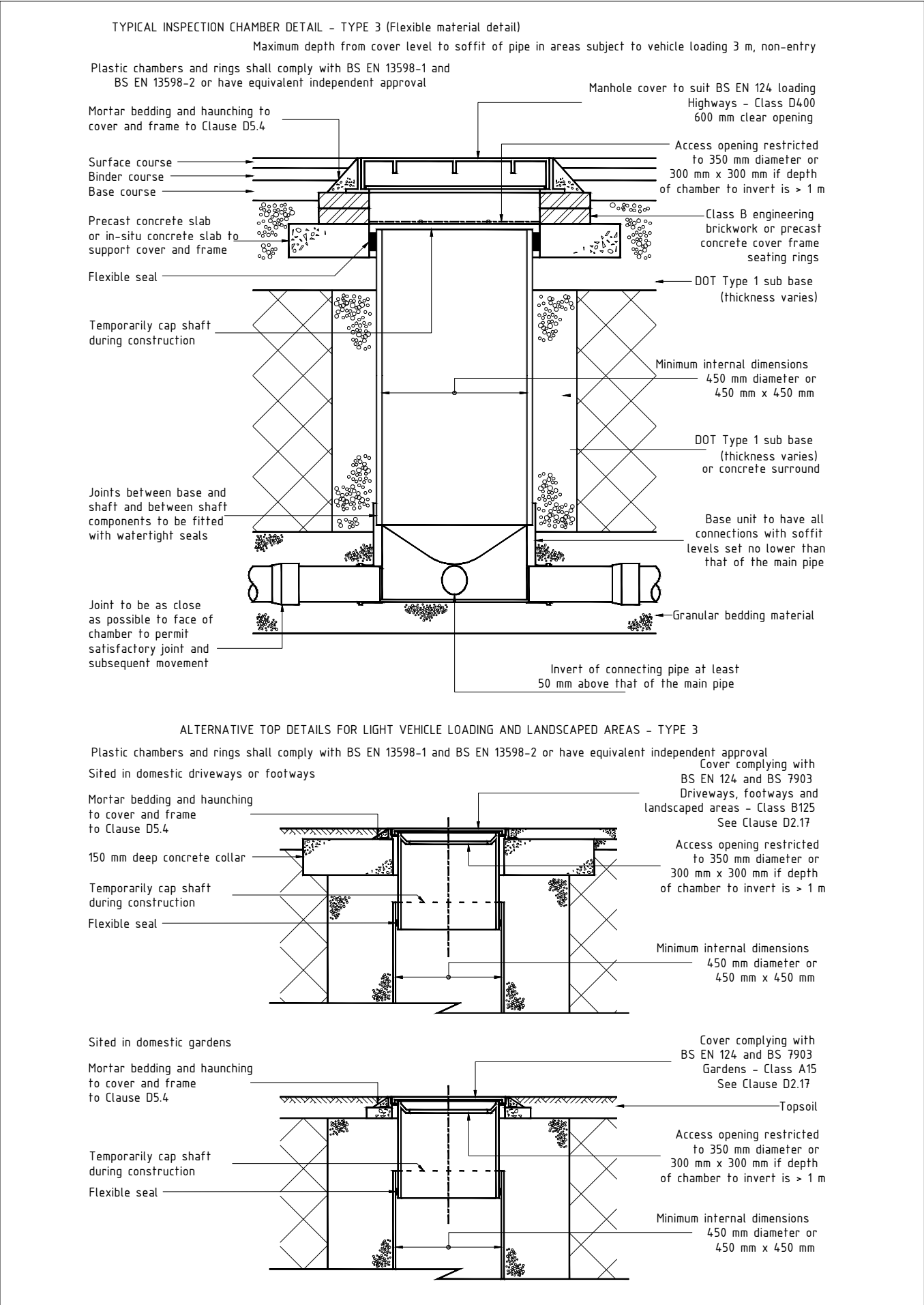




typical control manhole detail detail (1:10)



typical inspection chamber detail (1:10)

- GENERAL NOTES
- 0.0 THIS DRAWING IS COPYRIGHT & IS SENT TO YOU IN CONFIDENCE IT MUST NOT BE COPIED, USED OR DISCLOSED, IN WHOLE OR IN PART, TO THIRD PARTIES WITHOUT WRITTEN PERMISSION. IT REMAINS THE PROPERTY OF TJB&A AND MUST BE RETURNED ON REQUEST.
 - 0.1 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTUAL DOCUMENTS.
 - 0.2 All dims in mm unless o/w stated.
 - 0.3 All levels to SITE DATUM.
 - 0.4 Refer to architects details for SBN.
 - 0.5 Contractor to confirm SDR/SOLs prior to ordering material/ construction.
 - 0.6 Do not scale, the contractor must verify all dims prior to commencing shop drawings or work on site.
 - 0.7 All work to be carried out in accordance with CDM 2015.
 - 1.0 HIGHWAYS/ACCESS ROADS & PRIVATE DRIVES.
 - 1.1 N/A
 - 2.0 DRAINAGE
 - 2.1 To be read in conjunction with T J Booth Associates drainage calculations.
 - 2.2 Manhole cover levels indicative only, to be adjusted to suit final finish site levels.
 - 2.3 Sewers/manholes to be constructed in accordance with the water authorities sewers for adoption (edition as applicable), B. Regs. Approved Doc. H, and BS EN 152-4.
 - 2.4 Class S granular bed and surround to all new sewers.
 - 2.5 Sewers must have min 150H concrete surround if:
 - adoptable assets with less than 12m of cover under highways or driveways;
 - private assets with less than 900mm of cover under private driveways.
 - 2.6 All conc including pipes and manholes to be sulphate resisting unless otherwise agreed in writing by eng.
 - 2.7 Foul water must be to the following gradients in accordance with Bregs and Sewers For Adoption:
 - 1000 at gradients not less than 180 where at least 1 WC is connected and not less than 140 where no WC is connected.
 - 1500 foul gradients to be not less than 150 with at least 5 WCs connected.
 - 2.8 Surface water must be to the following gradients in accordance with Bregs:
 - 1000 at gradients not less than 150.
 - 1500 foul gradients to be not less than 150.
 - 2.8 Adoptable surface water must be to the following gradients in accordance with Sewers For Adoption:
 - 1000 at gradients not less than 160.
 - 1500 foul gradients to be not less than 150.
 - 2.9 Any work on the United Utilities network or to be part of S104 adoption to be in strict accordance with UNITED UTILITIES DEVELOPER CONSTRUCTION DETAILS, SEWERS FOR ADOPTION 7, and BUILDING REGULATIONS APPROVED DOCUMENT H.
 - 3.0 MANHOLES
 - 3.1 Manhole diameters to be in accordance with SFA clause 2.9.3, and according to largest manhole pipe diameter:
 - Pipe dia MH dia
 - <375 1200
 - 375-700 1500
 - 750-900 1800
 - 900-1050 2000
 - 1050-1200 2250
 - 1200-1350 2500
 - 1350-1500 2750
 - 1500-1650 3000
 - 1650-1800 3250
 - 1800-2000 3500
 - 2000-2250 3750
 - 2250-2500 4000
 - 2500-2750 4250
 - 2750-3000 4500
 - 3000-3250 4750
 - 3250-3500 5000
 - 3500-3750 5250
 - 3750-4000 5500
 - 4000-4250 5750
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 - 5500-5750 7250
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 - 7250-7500 9000
 - 7500-7750 9250
 - 7750-8000 9500
 - 8000-8250 9750
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 - 9500-9750 11250
 - 9750-10000 11500
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 - 11000-11250 12750
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 - 20250-20500 22000
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