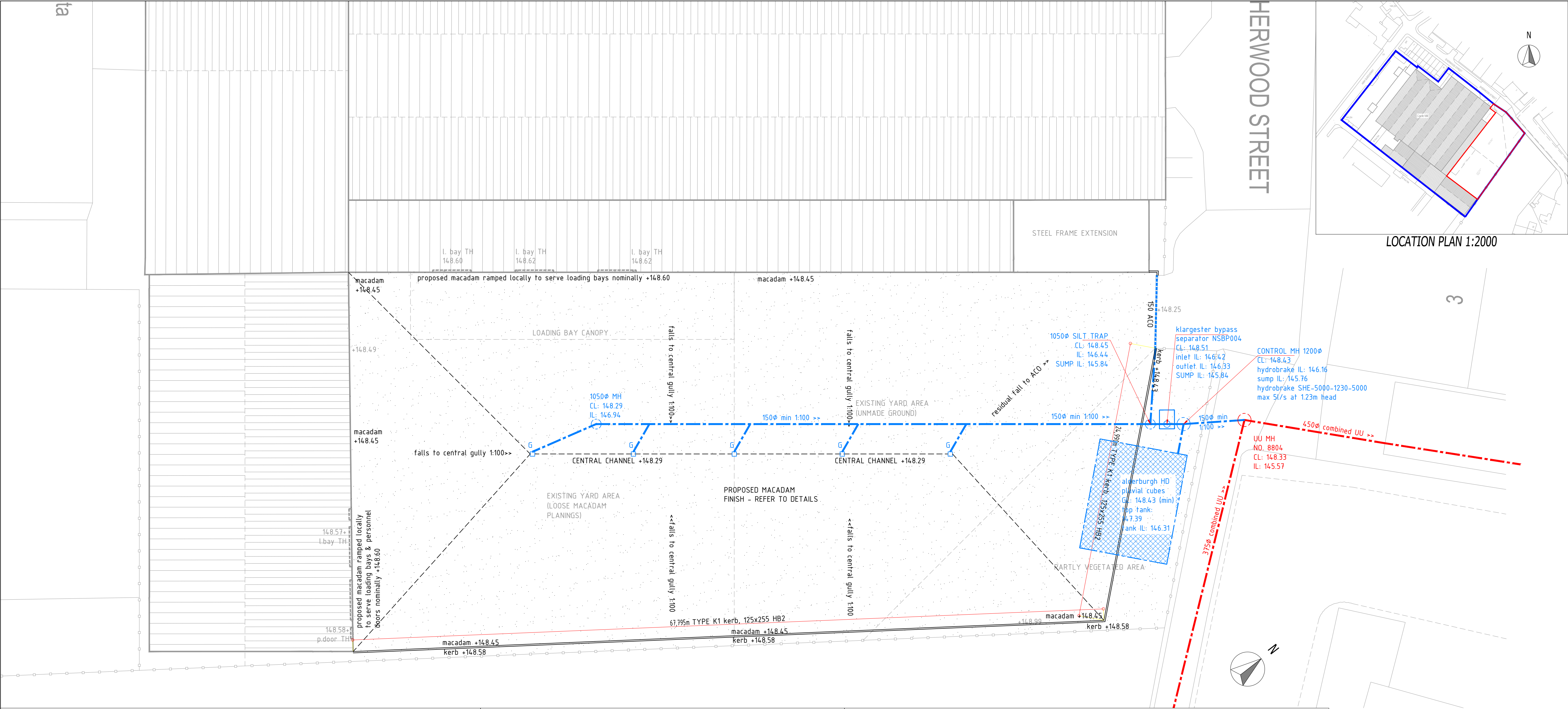




GENERAL NOTES

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 T.J.B.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 SBR.

0.5 Contractor to confirm SBR/SOL's 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 HIGHWAY/ROADS EXTERNAL WORKS.

1.1 Highway construction profile & pavement cross section construction as per details:

Wearing course - to specialist contractor specification.

Binder Course - to specialist contractor specification.

Base course - to specialist contractor specification.

Sub-base - DOT Type 1 sub-base, clean/inert, laid down & compacted in layers NLT 150th.

Capping - 6F2 or similar material compliant with MCHW 600 series, clause 613.

Sub-grade CBR test required to confirm thickness of capping/sub-base in road construction. Sub-grade CBR %, capping/sub-base thickness as follows:

subgrade CBR 2%	capping layer 450mm	subbase 150mm	overall thickness 600mm;
subgrade CBR 2.5%	capping layer 400mm	subbase 150mm	overall thickness 550mm;
subgrade CBR 3%	capping layer 350mm	subbase 150mm	overall thickness 500mm;
subgrade CBR 4%	capping layer 300mm	subbase 150mm	overall thickness 450mm;
subgrade CBR 5%	capping layer 250mm	subbase 150mm	overall thickness 400mm;
subgrade CBR 8%	capping layer 210mm	subbase 150mm	overall thickness 360mm
subgrade CBR 10%	capping layer 180mm	subbase 150mm	overall thickness 330mm;
subgrade CBR 15%	capping layer 150mm	subbase 150mm	overall thickness 300mm;
subgrade CBR 15%	capping layer 0mm	subbase 150mm	overall thickness 150mm

General Fill - granular material, nominal size 63-10mm clean/inert stone, laid down & compacted in layers NGT 150th.

1.2 Permanent road markings to comprise thermoplastic paint in accordance with BS EN 1871.

1.3 Road signs installed to MCHW Series 1200.

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 752-4.

2.4 Class S granular bed and surround to all new sewers.

2.5 Sewers must have min 150th 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.

3.0 FOUL WATER DRAINAGE

3.1 Foul water falls must follow the following in accordance with b.regs and Sewers For Adoption:

- 100Ø at gradients not less than 180 where at least 1 WC is connected and not less than 140 where no WC is connected.
- 150Ø foul gradients to be not less than 1:50 with at least 5 WCs connected.

4.0 SURFACE WATER DRAINAGE

4.1 SW falls must follow the following in accordance with b.regs and Sewers For Adoption:

- 100Ø at gradients not less than 1:60.
- 150Ø foul gradients to be not less than 1:100.

4.2 Any sewers 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.

5.0 MANHOLES

5.1 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.

5.2 Rocker pipes (clause 5.6.6.2) to be the following lengths:

150-600Ø	0.6m;
>600-700Ø	1.0m;
>750Ø	1.25m.

5.3 Inspection chambers/manholes to have min 150granular surround in soft landscaping areas and not less than 150 conc surround to driveways/car parks.

5.4 Manhole covers and frames shall comply with the relevant provisions of bs. en 124, and shall be of non-rocking design which does not rely on the use of cushion inserts.

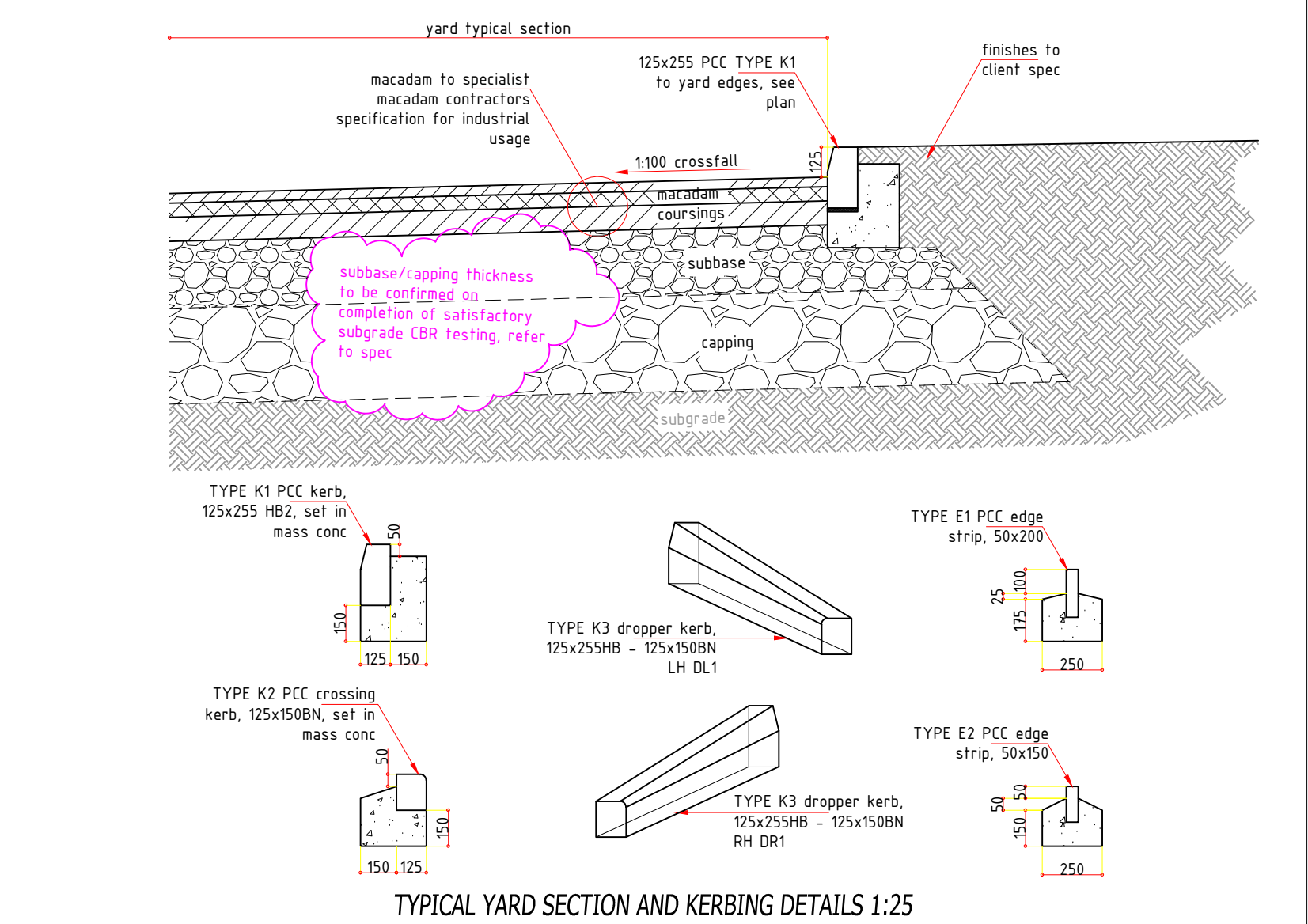
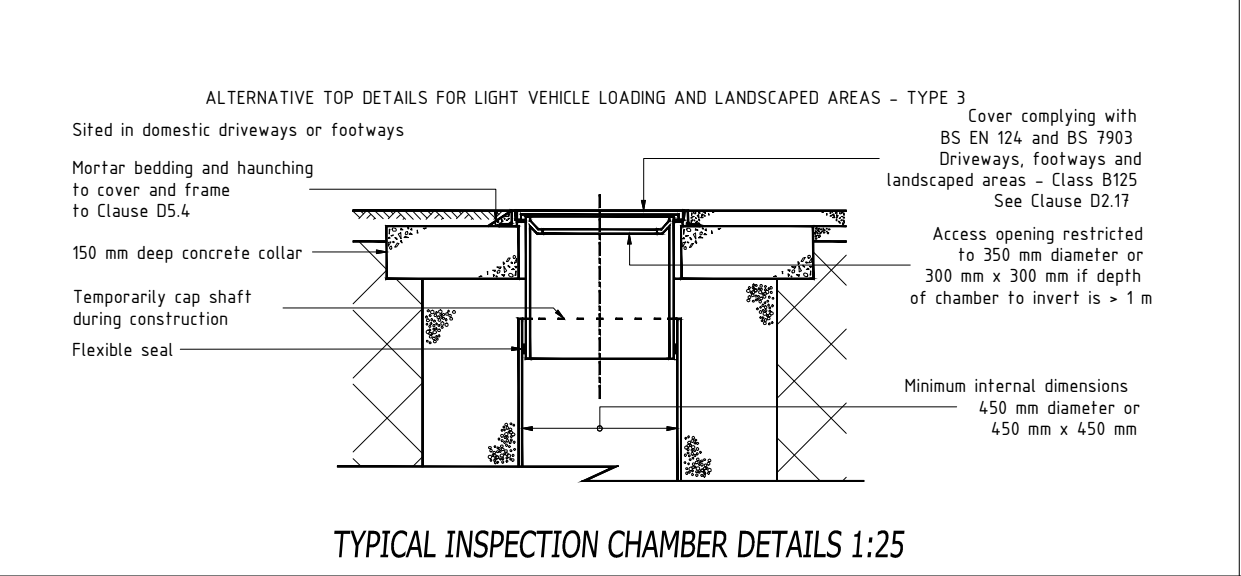
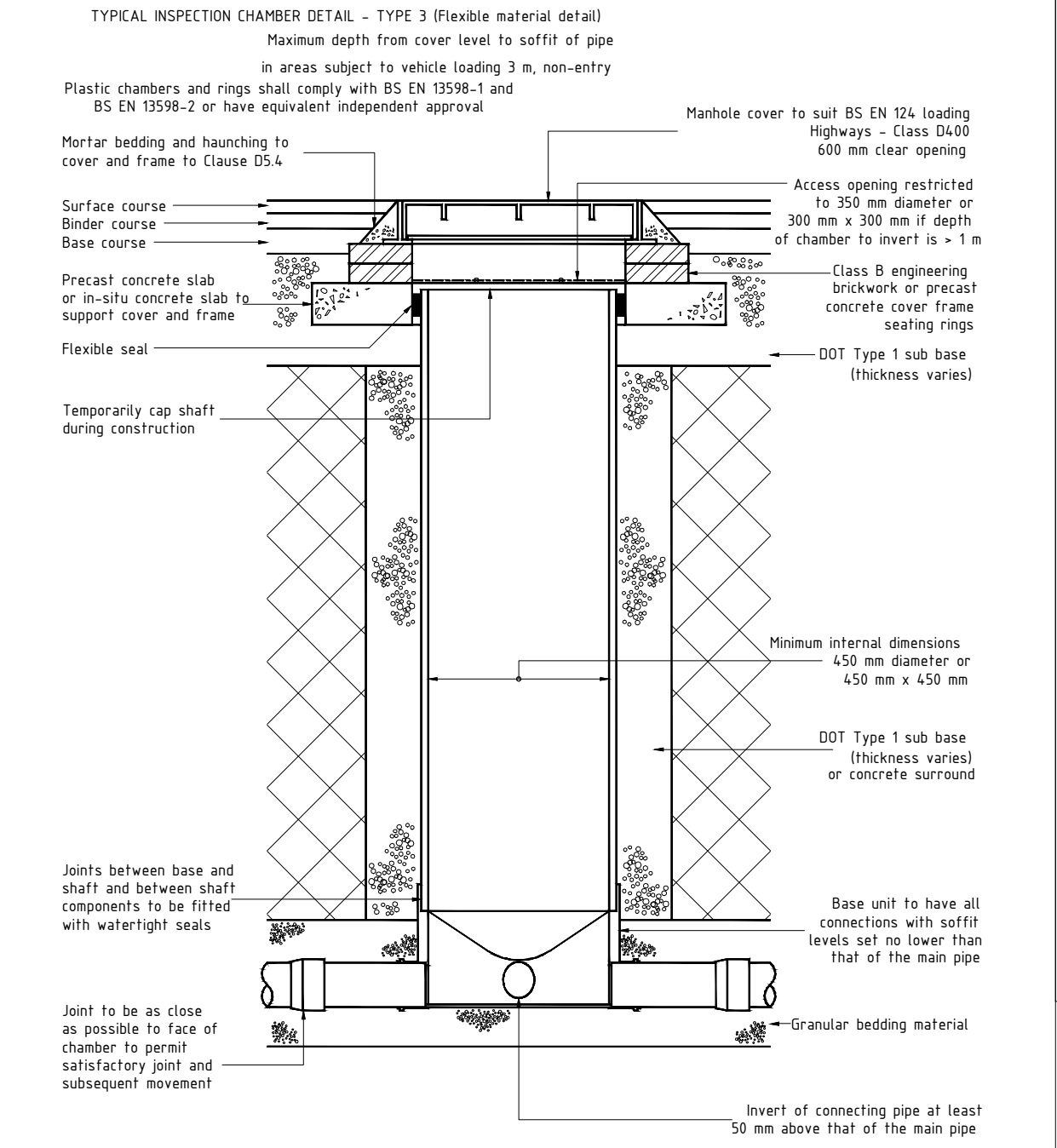
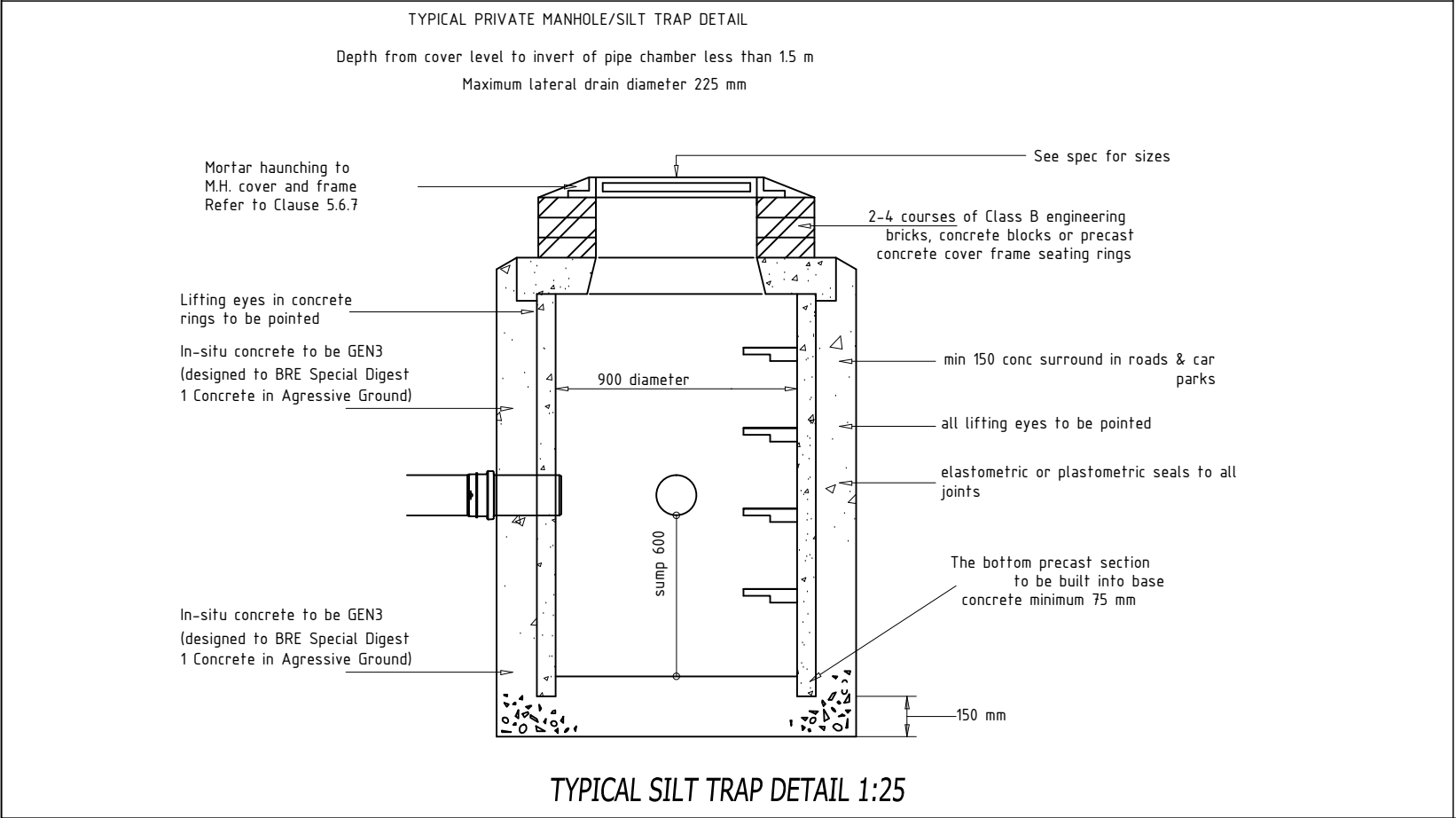
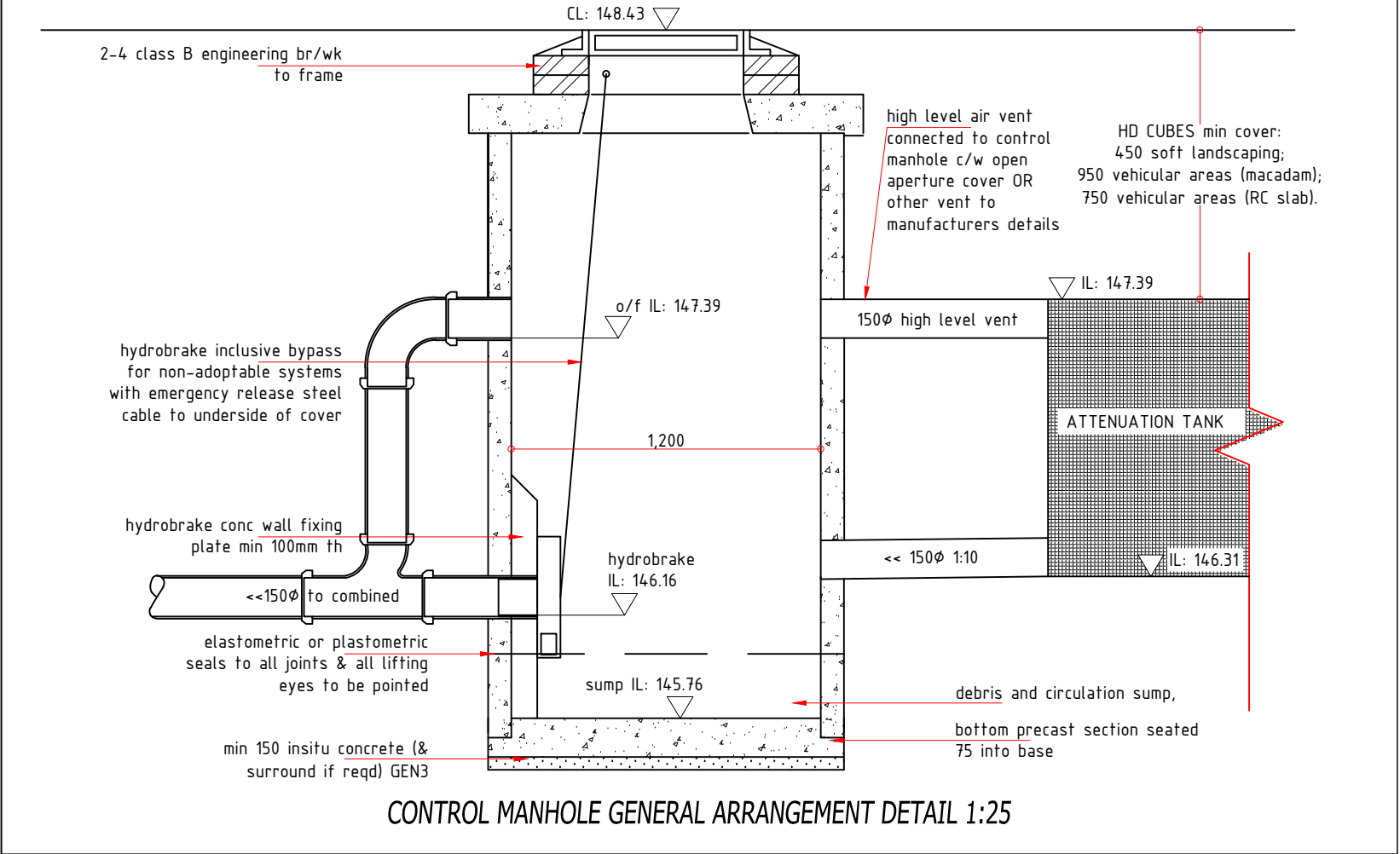
5.5 Cover sizes and access in accord with SFA Table 2.3 & to be 600x600 in United Utilities & Yorkshire Water areas.

5.6 Cover strength (clause 5.7.1.1) comprising minimum strength for location as follows:

Roads/Highways	D400 Vehicle Impact;
Car Parks	C250 Light Vehicle loading;
Footway/Driveway	B125 Occasional vehicle loading;
Gardens	A15 Pedestrian & cyclist ONLY.

5.7 All manhole covers shall be the non-venting type (unless indicated otherwise) and shall have closed keyways.

5.8 Manhole frames (clause 5.6.7) to be set to level, bedded and haunched externally over the base and sides of the frame in mortar, in accordance with the manufacturers instructions. The frame shall be sealed on not less than 2 courses of class B engineering brick, on precast concrete masonry units or on precast concrete cover frame sealing rings to regulate the distance between the top of the cover and the top rung to no greater than 675mm. A mortar fillet shall be provided where the corners to an opening in a slab are chamfered and the brickwork is not flush with the edges of the opening.



AMENDMENTS/ ISSUES				T J BOOTH ASSOCIATES		20A Eastgate Street Rochdale Lancashire OL16 1DH Tel: 01706 868288
0	original for discharge	jan 2023	ds	FILE NAME: dwg-tjba-sartex-castle-mill-100222		
REVISION	REASON/ CHANGE	DATE	BY	SCALE: 1 : 200 & as indicated @ A1		