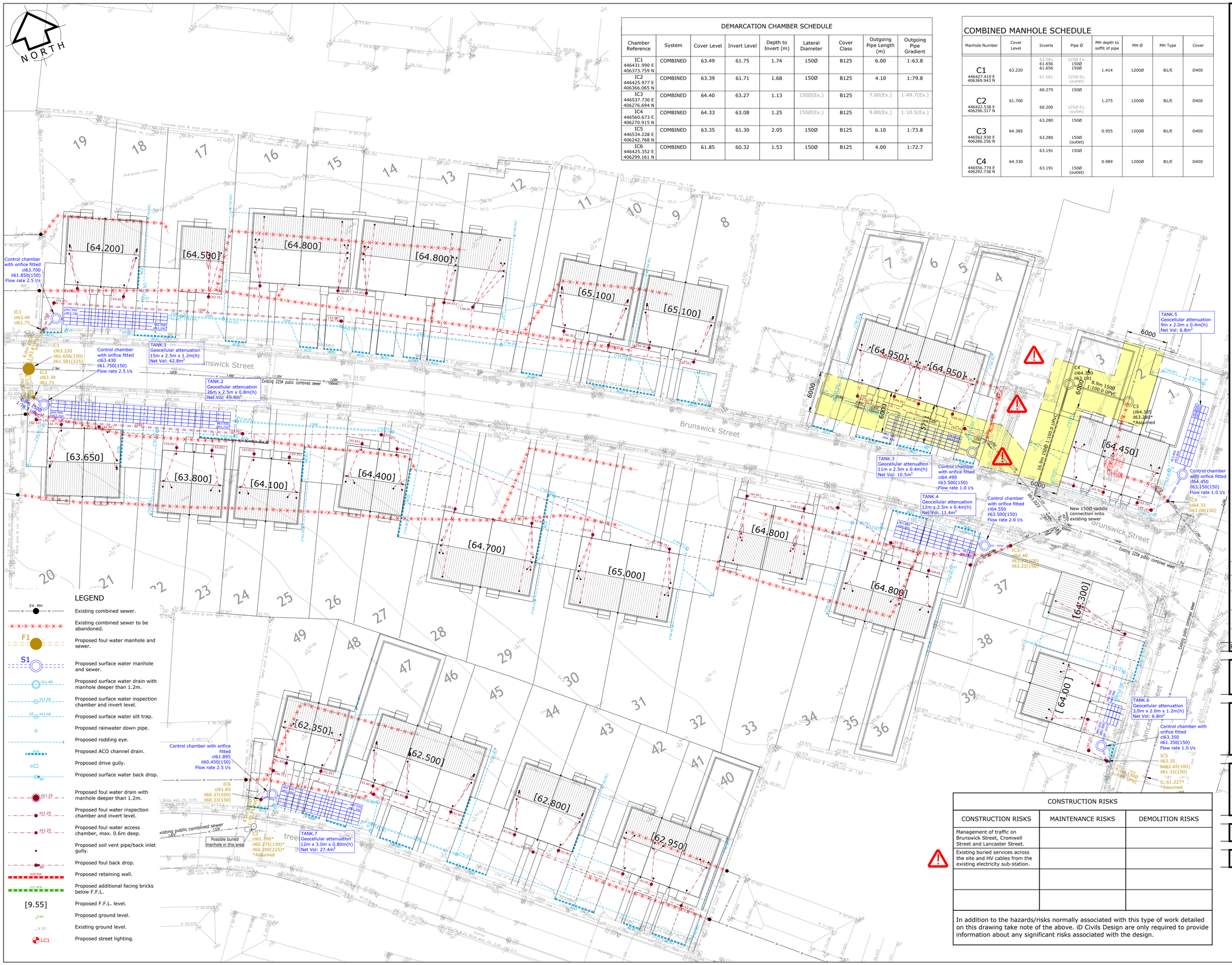

DEMARCATION CHAMBER SCHEDULE

Chamber Reference	System	Cover Level	Invert Level	Depth to Invert (m)	Lateral Diameter	Cover Class	Outgoing Pipe Length (m)	Outgoing Pipe Gradient
IC1 446431.990 E 406373.759 N	COMBINED	63.49	61.75	1.74	150Ø	B125	6.00	1:63.8
IC2 446425.977 E 406366.065 N	COMBINED	63.39	61.71	1.68	150Ø	B125	4.10	1:79.8
IC3 446537.730 E 406276.694 N	COMBINED	64.40	63.27	1.13	150Ø(Ex.)	B125	7.60(Ex.)	1:49.7(Ex.)
IC4 446560.673 E 406270.915 N	COMBINED	64.33	63.08	1.25	150Ø(Ex.)	B125	9.80(Ex.)	1:10.5(Ex.)
IC5 446534.228 E 406242.768 N	COMBINED	63.35	61.30	2.05	150Ø	B125	6.10	1:73.8
IC6 446425.352 E 406299.161 N	COMBINED	61.85	60.32	1.53	150Ø	B125	4.00	1:72.7

COMBINED MANHOLE SCHEDULE

Manhole Number	Cover Level	Inverts	Pipe Ø	MH depth to soffit of pipe	MH Ø	MH Type	Cover
C1 446427.419 E 406369.943 N	63.220	61.581 61.656 61.656 61.581	225Ø Ex. 150Ø 150Ø 225Ø Ex. (outlet)	1.414	1200Ø	B1/E	D400
C2 446422.538 E 406296.317 N	61.700	60.275 60.200	150Ø 225Ø Ex. (outlet)	1.275	1200Ø	B1/E	D400
C3 446562.930 E 406286.256 N	64.385	63.280 63.280	150Ø 150Ø (outlet)	0.955	1200Ø	B1/E	D400
C4 446556.774 E 406292.738 N	64.330	63.191 63.191	150Ø 150Ø (outlet)	0.989	1200Ø	B1/E	D400

LEGEND

- Existing combined sewer.
- Existing combined sewer to be abandoned.
- Proposed foul water manhole and sewer.
- Proposed surface water manhole and sewer.
- Proposed surface water drain with manhole deeper than 1.2m.
- Proposed surface water inspection chamber and invert level.
- Proposed surface water silt trap.
- Proposed rainwater down pipe.
- Proposed rodding eye.
- Proposed ACO channel drain.
- Proposed drive gully.
- Proposed surface water back drop.
- Proposed foul water drain with manhole deeper than 1.2m.
- Proposed foul water inspection chamber and invert level.
- Proposed foul water access chamber, max. 0.6m deep.
- Proposed soil vent pipe/back inlet gully.
- Proposed foul back drop.
- Proposed retaining wall.
- Proposed additional facing bricks below F.F.L.
- [9.55] Proposed F.F.L. level.
- Proposed ground level.
- Existing ground level.
- Proposed street lighting.

CONSTRUCTION RISKS

CONSTRUCTION RISKS	MAINTENANCE RISKS	DEMOLITION RISKS
Management of traffic on Brunswick Street, Cromwell Street and Lancaster Street.		
Existing buried services across the site and HV cables from the existing electricity sub-station.		

In addition to the hazards/risks normally associated with this type of work detailed on this drawing take note of the above. iD Civils Design are only required to provide information about any significant risks associated with the design.

Health and Safety Notes/CDM Regulations 2015

In line with the above regulations we are obliged to inform the Contractor of the abnormal risks that may be encountered in the construction of these works. As part of the design process all the salient health & safety aspects are given full consideration and these are observed within the designs viewed on this document. Although considerable effort is undertaken to eliminate risks, the very nature of the project gives rise to some hazards and risks.

Significant risks that cannot be eliminated by design and could not be foreseen by a competent contractor are noted in the risk assessment boxes on the drawings.

NOTES

1. Manholes, sewers etc. and any other part of the works intended for adoption under a Section 104 Agreement or gullies etc. intended for adoption as Highway Drainage are to be constructed in accordance with the W.A.A specification "Sewers for Adoption" 6th Edition, and to any requirements of the Adopting Authority and the Local Council.
2. Unadopted FW and SW drainage is to be constructed in accordance with the Building Regulations, BS. 8301 and relevant Agreement Certificates.
3. All private drainage to be 100mmØ unless indicated otherwise. All connections from private to adoptable manholes/sewers to be 150mmØ(min).
4. Private drainage with less than 0.9m of cover in drives and car parking areas to have minimum 150mm concrete bed and surround.
5. Private Drains are to be constructed using flexibly-jointed vitrified clay pipes to BS. 65 "Super Strength" specification and BS EN 295 (e.g. Hepworth SuperSleeve or similar) or PVCu Building Drainage system pipe work to EN 1401-1, bedded and back filled in accordance with the manufacturers instructions and the specifications listed in Note 2.
6. Backfilling of drain trenches adjacent to dwellings or other structures to be in accordance with BS. 8301-Fig.9.
7. Access fittings and inspection chambers less than 1m deep are to be clayware or pre-formed polypropylene as appropriate to the depth and number of connections. Chambers greater than 1.2m deep are to be of pre-cast concrete construction with 150mm in-situ concrete surround, or polypropylene reduced access system. Inspection chamber sizes are to be in accordance with Table 8 of BS.8301.
8. Cover levels indicated on the drawing are nominal and may be adjusted to suit finished ground levels as necessary. Private inspection chamber covers should be Grade B in areas accessible to wheeled vehicles and Grade C elsewhere.
9. Rainwater down pipes to be connected direct to drain using an appropriate adapter and removable section of down pipe to permit rodding access.
10. Where drains pass through foundations or other rigid structures, a lintel or sleeve is to be used and provision for flexibility is to be made with "rocker pipes".
11. The positions of SVPs, stub-stacks, W.C. outlets etc. and rainwater down pipes are to be accurately located from the house-type working drawings.
12. Gullies situated in areas accessible to wheeled vehicles are to be of suitable construction. Typically Hepworth square gully ref. SG2/1 with driveway grating ref. 1H2C for a single private drive. For communal parking areas refer to the detail shown on iD Civils Design drawing number 5022-C-D3-01.
13. Drains within areas of "made ground" to be constructed by first making up the area to approx. finished level and then excavating through the fill material into undisturbed ground. The drain trench is then to be back filled to formation level using suitable granular fill material well-compacted in layers not exceeding 225mm.
14. Drains to be constructed under dwellings with suspended floor slabs should either be installed using a proprietary hanger system where "beam and pot" or similar construction is used, or should be cast into local slab thickening where reinforced concrete ground slabs are to be poured in-situ.
15. Finished ground levels have been prepared assuming that the level threshold to the building, is in accordance with part M of the building regulations, is at the front of the property unless otherwise stated.
16. For all details of fences/walls and enclosures refer to architect for details.

Rev	Description	By	Date
E	Proposed manholes on existing sewers numbered and manhole schedules added.	DL	29.10.19
D	Existing utilities added and proposed drainage diversion amended to avoid existing HV cables.	DL	27.09.19
C	Plot 12 relocated and private drainage amended accordingly. Plots 27-32 drives relocated and private drainage amended accordingly.	DL	09.09.19
B	Gully added to plot 12 drive and drainage easement added to proposed diversion adjacent to plots 2-7.	DL	04.09.19
A	Plot footpaths added, plots 8-19 amended and private drainage amended accordingly.	DL	30.08.19

Client:

Keepmoat Homes

Project Title:

Brunswick Street, Thurnscoe

Drawing Title:

Private Drainage Layout

Scale	Date
1:250 @ A1	19.08.19

Drawing No	Revision	Status
5022-C-D1-01	E	Approval

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