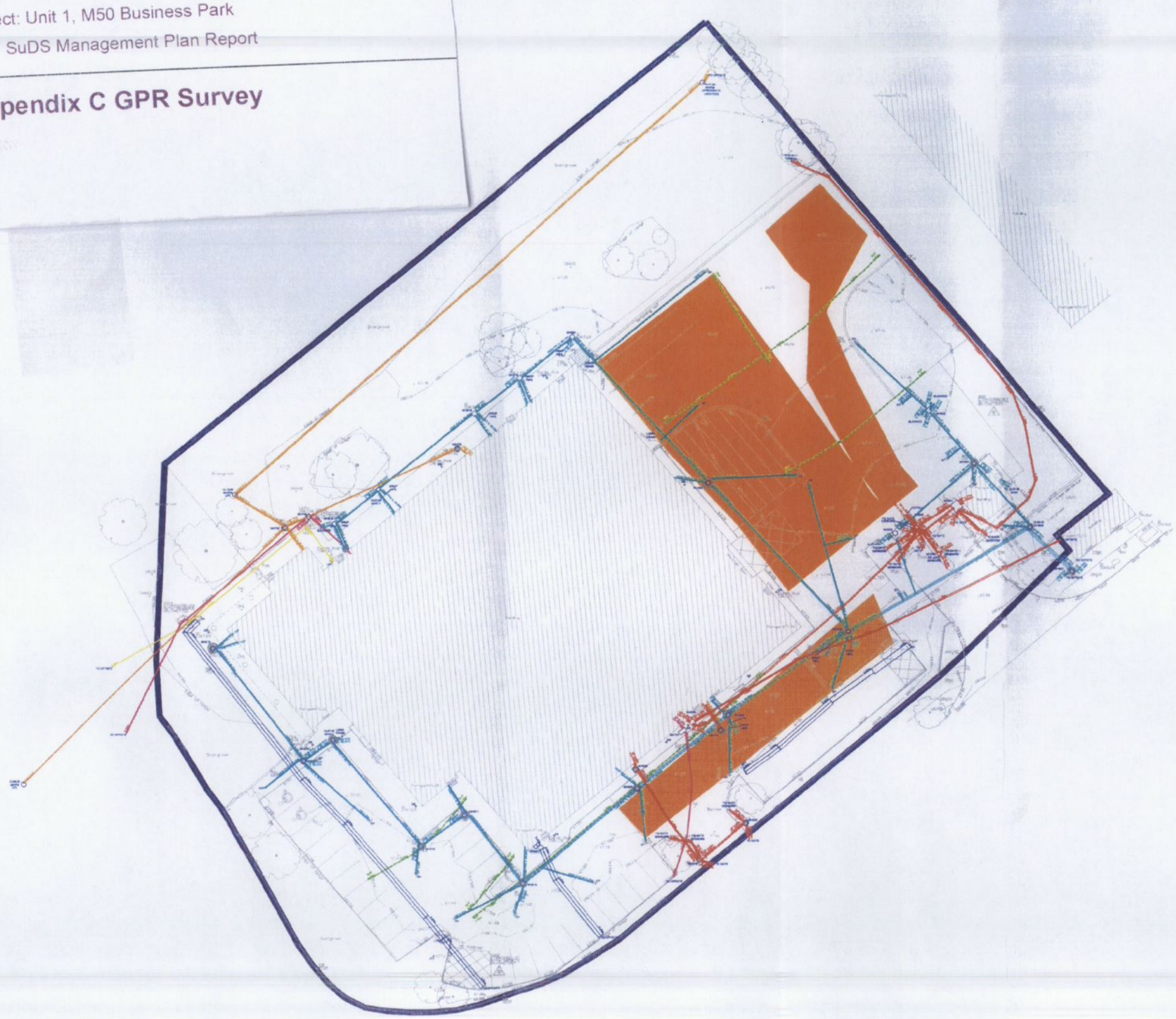
Project Number: 22_112

Project: Unit 1, M50 Business Park

Title: SuDS Management Plan Report

Appendix C GPR Survey



PCA PRECISION UTILITY MAPPING

Notes

1. Topographical information has been taken from drawing '220620NK_Ballymount', some information may have been removed for clarity. Please refer to original drawing for full details.
2. This drawing should be read in conjunction with the utility survey report.
3. All depths are taken to top of service, unless "T.L." is indicated, in this instance the depth is to the invert of the pipe. This is for drainage pipes at manholes only.
4. As this is a non-intrusive survey only, all utilities should be visually verified by safe digging practices to confirm depths and alignments of survey.
5. Non-intrusive surveys cannot guarantee every possible service under the ground is located. Care must be taken when site works begin, as services that are not locatable through non-intrusive methods may exist on site.

DISCLAIMER

This drawing and information contained within is issued in confidence and is the copyright of PCA/Precision Utility Mapping. If the base graphical information or laser mapping has been supplied by a Third Party, PCA/Precision Utility Mapping is not liable for any inaccuracies contained therein. If inaccuracies in supplied mapping have been identified and PCA/Precision Utility Mapping have not been commissioned to rectify these inaccuracies, these will be highlighted in the accompanying report. Disclosure of this information to Third Parties and unauthorised reading or redirection of this data without approval is forbidden.

The data presented in this drawing have been collected using a combination of the following: consultation of utility record information, visual survey & inspection of manholes and inspection chambers; electromagnetic location techniques; ground penetrating radar; and, where applicable, trial hole excavations. These techniques have been employed in accordance with the BSI PAS128 Specification for Underground Utility Detection, Verification and Location using the search methodologies indicated below and described in the accompanying report. This drawing should be used in conjunction with the accompanying report within mere interpretations of these techniques and any misleading factors encountered during this survey.

Unless otherwise stated, all utilities shown on this plan have been surveyed using appropriate operators and the connections between visible appurtenances, such as manholes, are assumed to be detected, are generally assumed to be direct unless there are indications to the contrary. The detection confidence for each utility represented is explained below with the PAS128 quality outlined below. Information depicted on QL-C or QL-D cannot be guaranteed as it is based on historic utility records which can be inaccurate and incomplete.

The utility routes depicted may reflect the routes of multiple cables or pipes. It is not always possible to differentiate between buried construction features, utilities and other subsurface linear features therefore it is possible that some features shown are not utility related, and due to the limitations of electromagnetic techniques all utility line/features should be treated with caution and verified prior to any further excavation/drilling works.

If the location or depth of utilities and features is of particular importance to a project then it is recommended that excavations are made with PCA/Precision Utility Mapping representative present.

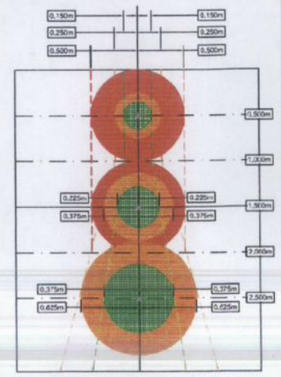
Please note that not all buried pipes, cables and ducts can be detected and mapped in combination of their depth, location, material type, geology and proximity to other utilities. Even an appropriate and professionally executed survey may not be able to achieve a 100% detection rate. Where an area of utilities is busy, without client project requirements it is normally recommended that a PAS128 Quality Level B verification survey is carried out.

No utility mapping survey can be considered a 100% accurate depiction of the subsurface environment, and the use of these drawings does not remove the requirement for the use of safe digging techniques at all times. Any excavations undertaken on site are to be in accordance with HSA Code of Practice for Avoiding Danger from Underground Services 2016.

SUB-SURFACE KEY

UTILITY CONFIDENCE LEVELS (Listed from High to Low)

Horizontal & Vertical Accuracy Illustration



QL-B1 ≤15% of depth or 0.150m (whichever is greater)
QL-B2 ≤25% of depth or 0.250m (whichever is greater)
QL-B3 detection successful but no depth, horizontal ≤0.500m
Detected Utility Position

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SANDYFORD
DUBLIN
D18KD58
WWW.PCA.IE

DRAFT	26/07/22	C.D.	Survey Completed	K.S.	J.M.

Client: ARUP

Title: BALLYMOUNT UTILITY-SURVEY SHEET-1OF1

Surveyor	A.JIMNEZ	A.J.	Eng. check		
Driver	C.DAUS	C.D.	Coordination		
Dwg check	K.SHEEHAN	K.S.	Approved	J.MARKHAM	J.M.
Scale at A0	1:200	Status	COMPLETE	Rev	ORIGINAL

Drawing Number: PJM-11008-U-DR-0001-3D-01