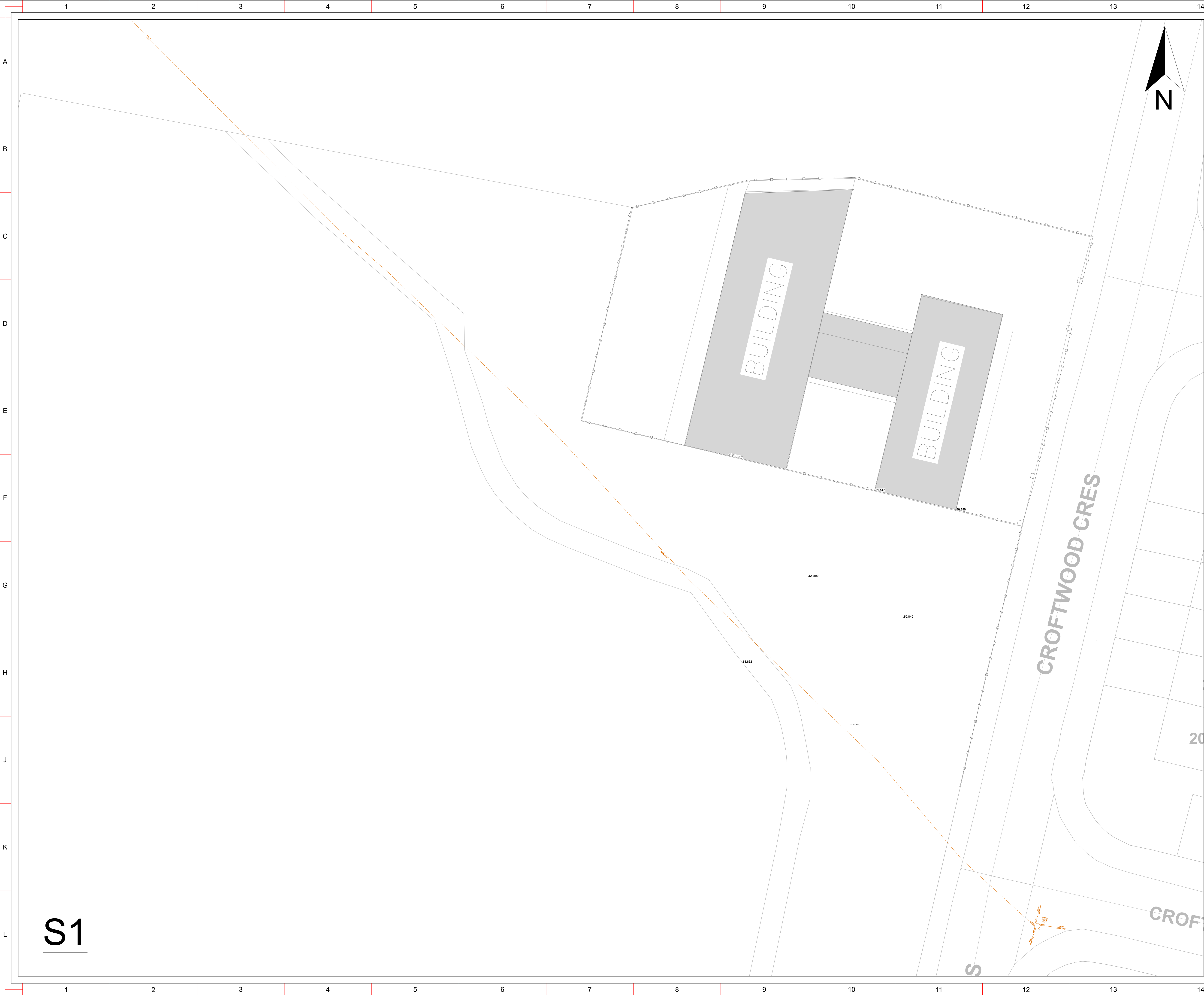




SERVICES LEGEND

UNDERGROUND ELECTRICITY LINE	FOUL DRAINAGE
ELECTRICITY POLE	FOUL MANHOLE
OVERHEAD LINE WITH POLE	STORM DRAINAGE
OVERHEAD ELECTRIC	STORM DRAINAGE MANHOLE
UNDERGROUND HV ELECTRICITY LINE	COMBINED DRAINAGE
6M HIGH STREET LIGHT	COMBINED DRAINAGE MANHOLE
MINI PILLAR	PRODUCT DRAINAGE
UG ELECTRIC TRAFFIC CONTROL	PRODUCT DRAINAGE MANHOLE
TRAFFIC CONTROL MANHOLE	CHEMICAL LINE
ER	CHEMICAL MANHOLE
ER CHAMBER	ROAD GULLY
OVERHEAD LINE WITH POLE	GULLY TRAP
ENET	WATER MAIN
ENET CHAMBER	SLURGE VALVE
CORPUS	FIRE HYDRANT
CORPUS CHAMBER	WATER METER
VIRGIN	SCOUR VALVE
VIRGIN CHAMBER	PRESSURE RELEASE VALVE
FIBRE	AIR VALVE
FIBRE CHAMBER	NON RETURN VALVE
AURORA TELECOM	FUEL LINE/TANK
AURORA TELECOM CHAMBER	GAS SV
CATV	GAS LINE
CATV CHAMBER	GAS HP
BT/ESAT	GAS HIGH PRESSURE LINE
BT/ESAT CHAMBER	GROUND LEVEL (METRES - BS DATUM)
SERO FIBRE	COVER LEVEL (METRES - BS DATUM)
SERO CHAMBER	INVERT LEVEL (METRES - BS DATUM)
UNIDENTIFIED SERVICE	DEPTH TO TOP OF SERVICE DUCT OR CABLE
UNIDENTIFIED CHAMBER	UP ON MANHOLES - INVERT LEVEL OF CHAMBER
UNIDENTIFIED CHAMBER	UP ON DRAINAGE - INVERT LEVEL OF PIPE
EARTH LINE AND RODS	UTO UNABLE TO OPEN
TRAFFIC SENSORS	OSA OUTSIDE SURVEY AREA
CCTV POLE	UTT UNABLE TO TRACE
UTILITIES CABINET	SURVEYED AREA

SHEET LEGEND



Please note that the absence of services on this drawing is not solid proof that these services are not present in the ground. While every method of underground utility locating has been adhered to in this survey, some services may lie outside the range of the GPR and electro-magnetic locator signal. Poor ground conditions and/or services situated underneath other services can also prove impossible to locate. Due to the fact that not all Utility Service Plans were provided to Metroscan by the contractor Metroscan cannot be held responsible for any services that have not been identified. The contractor should not assume that all services have been identified and must exercise a duty of care when excavating. Hand / vacuum excavation is advised to determine exact depth and position of service prior to excavation commencing. Please note that the drawing provided is valid for 60 days from date stated below. Drawing is intended solely for use of the contractor named below.

Accuracy Levels
In ideal conditions the accuracy levels of the EML is +/-5% whilst the GPR outputs accuracy levels of 10% up to 2.5m depth. These accuracy levels can vary depending on ground conditions, depths of services, congestion of services (may cause signal to bleed on to other services).
Depths noted on drawings should be taken as indicative and hand / vacuum excavation is advised where exact depth are required. Diameter of services will be given where direct access is available through visual inspection, eg manholes.
All Cover level elevations for Manholes / Inspection Chambers will be taken from topographical survey if supplied.
Survey Limitations
Non-conductive services pose a difficult task to identify. Direct buried fibre optic cables are difficult to identify with GPR. They can easily be traced when placed in a conduit by the means of a sonde or colour reel.
PE gas mains can also prove difficult to identify.
If Metroscan cannot get an accurate signal from a service, it will be noted on the drawing that the service is 'Taken from records QL 584'.
If manholes cannot be opened on site, they will be marked on the drawing as UTO (unable to open).
Excluded from the survey unless otherwise stated:
Domestic services. Services above ground. Disconnected services where no signal can be obtained.

Notes

1. GPR equipment :
Detector Duo, DS2000,
Stream C, Mala EL Core
scanning frequency 250 and 700 mhz.
Depth of investigation 2.5m, self calibrating.
2. Radio detection equipment:
Vivax Metrotech VLoc Pro3 / RD7000
3. GPR scanning limited to smooth surfaces only no obstruction.
Survey area marked on drawing
4. All depths stated are an indication of depth
caution required when excavating.
5. All Utilities are classified QL- B2 unless noted otherwise.

PAS 128

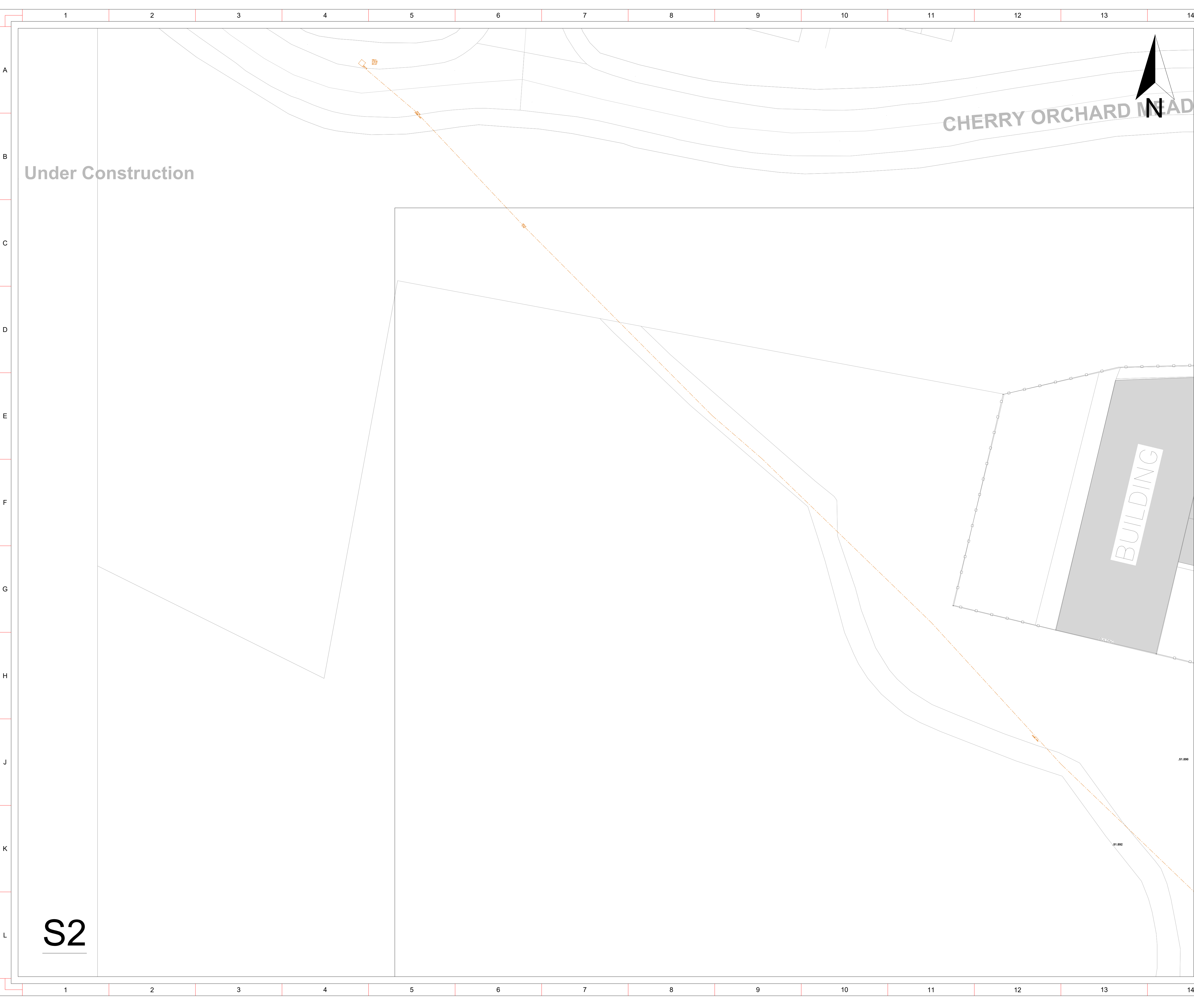
Survey Type	Quality Level	Location Accuracy		Supporting Data
		horizontal	vertical	
D	Detection	QL-D	Undefined	Undefined
C	Site Reconnaissance	QL-C	Undefined	Undefined
E	Detection	QL-E1	Undefined	Undefined
		QL-E2	plus/minus 300mm	plus/minus 40% of the detected depth
		QL-E3	plus/minus 200mm	plus/minus 40% of the detected depth
		QL-E4	plus/minus 150mm	plus/minus 15% of the detected depth
A	Verification	QL-A	plus/minus 50mm	plus/minus 10mm

Client : Andrew Riley Consulting Engineers
Site Address : Cherry Orchard Community Child Care Centre
Dublin 10

Drawing Title: MUL1298_Riley_Cherry Orchard	Drwg No: 1
Site Completion Date: 30th November 2022	Sheet No: S1
Scale: 1:200 @ A1	Coordinates: ITM
Revision No:	



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Website: www.metroscan.ie



SERVICES LEGEND

- UNDERGROUND ELECTRICITY LINE
- ELECTRICIAL POLE
- OVERHEAD LINE WITH POLE
- OVERHEAD ELECTRIC
- UNDERGROUND HV ELECTRICITY LINE
- 6M HIGH STREET LIGHT
- MINI PILLAR
- UG ELECTRIC TRAFFIC CONTROL
- TRAFFIC CONTROL POLE
- ER
- ER CHAMBER
- OVERHEAD LINE WITH POLE
- ENET
- ENET CHAMBER
- CORPUS
- CORPUS CHAMBER
- VIRGIN
- VIRGIN CHAMBER
- FIBRE
- FIBRE CHAMBER
- AURORA TELECOM
- AURORA TELECOM CHAMBER
- CATV
- CATV CHAMBER
- BT/ESAT
- BT/ESAT CHAMBER
- SIRIO FIBRE
- SIRIO CHAMBER
- UNIDENTIFIED SERVICE
- UNIDENTIFIED CHAMBER
- EARTH LINE AND RODS
- TRAFFIC SENSORS
- CCTV POLE
- UTILITIES CABINET
- FULL DRAINAGE
- FOUL MANHOLE
- STORY DRAINAGE
- STORY DRAINAGE MANHOLE
- COMBINED DRAINAGE
- COMBINED DRAINAGE MANHOLE
- PRODUCT DRAINAGE
- PRODUCT DRAINAGE MANHOLE
- CHEMICAL LINE
- CHEMICAL MANHOLE
- ROAD GULLY
- GULLY TRAP
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- GAS SV
- GAS LINE
- GAS HP
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- COVER LEVEL (METRES - BS DATUM)
- INVERT LEVEL (METRES - BS DATUM)
- DEPTH TO TOP OF SERVICE DUCT OR CABLE
- UP ON MANHOLES - INVERT LEVEL OF CHAMBER
- UP ON DRAINAGE - INVERT LEVEL OF PIPE
- UNABLE TO OPEN
- OUTSIDE SURVEY AREA
- UNABLE TO TRACE
- SURVEYED AREA

SHEET LEGEND



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PAS 128

Survey Type	Quality Level	Location Accuracy		Supporting Data
		horizontal	vertical	
D Destroy utility record search	QL-D	Undefined	Undefined	
C Site Reconnaissance	QL-C	Undefined	Undefined	A segment of all the service location is demonstrated by visual reference to street fixtures, house particular features or evidence of previous street works.
E Detection	QL-E4	Undefined	Undefined	A utility segment which is suspected to exist but has not been detected opt. therefore shown as an assumed route.
	QL-E5	plus/minus 300mm	Undefined (no vertical depth)	Horizontal location only the utility identified by one of the geophysical techniques used
	QL-E6	plus/minus 200mm	plus/minus 40% of the detected depth	Horizontal and vertical location of the utility detected by one of the geophysical techniques used
	QL-E7	plus/minus 150mm	plus/minus 15% of the detected depth	Horizontal and vertical location of the utility detected by multiple geophysical techniques used
A Verification	QL-A	plus/minus 50mm	plus/minus 10mm	Horizontal and vertical location of the top and/or bottom of the utility through direct location method

Client : Andrew Riley Consulting Engineers
Site Address : Cherry Orchard Community Child Care Centre
Dublin 10

Drawing Title: MUL1298_Riley_Cherry Orchard		Drwg No: 1
Site Completion Date: 30th November 2022		Sheet No: S2
Scale: 1:200 @ A1	Coordinates: ITM	Revision No:



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