Electromagnetic locating techniques as well as ground penetrating radar have been utilised in the location of underground services. These results are not infallible and a non destructive dig process should be carried out to confirm service identification, positions and particularly heights, where these are critical. Although all reasonable effort has been made in locating and mapping the underground services, the completeness of the this Utility survey information cannot be guaranteed. SUBSURFACE UTILITY INFORMATION (SUI) CLASSIFICATION. QUALITY LABELING UTILITY INFORMATION BY A CLASSIFICATION CODE ALLOWS THE USER OF THIS INFORMATION TO UNDERSTAND CLEARLY HOW THE INFORMATION WAS COLLECTED AND THEN PLACE AN APPROPRIATE AMOUNT OF RELIANCE ON IT. PROJECT RISKS RELATED TO UNDERGROUND UTILITIES CAN THEN BE PROPERLY MANAGED. QUALITY A: INFORMATION IS THE HIGHEST POSSIBLE LEVEL OF ACCURACY AND IS OBTAINED EXPOSING THE UNDERGROUND UTILITY USING A NON DESTRUCTIVE EXCAVATION (POT HOLING) TECHNIQUE. THE VERTICAL INFORMATION FOR THIS LOCATING METHOD IS TO THE TOP OF THE SHALLOWEST PART OF THE LOCATED SERVICE. THE 3D LOCATION IS RECORDED AS AN X,Y,Z COORDINATE. QUALITY B: INFORMATION IS COLLECTED BY DESIGNATING THE HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND UTILITIES BY USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS, SONDES OR FLEXI TRACE, GROUND PENETRATING RADAR AND ACOUSTIC PULSE EQUIPMENT. THIS IS THE MOST COMMON FORM OF UTILITY LOCATING AND ALTHOUGH AN X,Y, AND Z AXIS CAN BE ESTABLISHED IT IS NOT ALWAYS ENTIRELY ACCURATE DUE TO DIFFERING ELECTROMAGNETIC FIELDS, SOIL CONDITIONS AND MULTIPLE BANKS OF CABLES AFFECTING THE LOCATING SIGNAL. QUALITY C: INFORMATION IS COLLECTED BY CORRELATING THE SURVEY OF VISIBLE UTILITY SURFACE FEATURES SUCH AS MARKER PLATES OR WATER HYDRANTS AND ACQUIRED DIAL BEFORE YOU DIG PLANS TO DRAW A STRING WHICH SHOWS THE APPROXIMATE POSITION OF SERVICES. THIS METHOD DOES NOT USUALLY SHOW MULTIPLE BANKS OF CABLES AND DOES NOT ALWAYS SHOW THREE DIMENSIONAL INFORMATION. QUALITY D: INFORMATION IS THE MOST BASIC LEVEL OF UTILITY LOCATIONS USING ONLY INFORMATION BASED ON EXISTING DIAL BEFORE YOU DIG PLANS AND BY MEASURING BOUNDARY OFFSETS ETC. THIS METHOD OF UTILITY LOCATION SHOULD ALWAYS BE TREATED AS AN INDICATION OF THE PRESENCE OF A SERVICE ONLY AND SHOULD NOT BE USED FOR DESIGN.

19 Brennan Way, Belmont, WA 6104

survey urawing number : www.landsurveys.net.au 1501601_Sandstone_TOPOSURVEY.dwg admin@landsurveys.net.au All disclaimers as per Land Surveys drawing apply to this drawing

TIC & JUNCTION BOX CL 15.56 \bigcirc_{LP}

Key for underground services Communications cable Comms optic fibre Electric earth cable Electric cable Electric HV cable Fuel line Gas pipe $-{\frak c}-{\frak c}$ Irrigation line Chilled water pipe Heated water pipe Oil pipe Sewer/Waste Pipe Sewer Pressure Main Sewer/Waste vent pipe Stormwater/Drainage pipe Telstra cable Traffic cable Unidentified Water pipe Multi User Duct Overhead service Survey Boundary Cable/Pipe banding End of trace End of trench scar Characteristic change Spot Level Where chamber extents are significantly greater than the cover size, their approximate extents are shown thus; Inaccessible areas, shown thus; Abbreviations for underground services NL—A Not located — route assumed Asbestos cement Alkathene NL—I Not located — route plotted from on-site information Assumed Route NL—R Not located — route plotted Back drop Bore hole from records Brick Compressed air NL—T Not located — plotted from visible trench scar detail CATV Cable tv NRV Non return valve CCTV Closed circuit television No signal Coal hole Overhead Cast iron Polyethylene Cover level Pot ended Cable marker Pipe riser CONC Concrete Pressure reducing valve C/PIT Catch pit Polyvinyl chloride Copper Rodding eye Cable riser Road gully Direct buried Road sign Ductile iron Rain water pipe Depth to base Soakaway Electric cable pit Stop cock Extra high voltage Side entry Electric joint box Spun iron Electricity pole Soffit level Earthing rod Soil pipe Earthing strap Fire hydrant Stop valve Floor level Soil vent pipe Floodlight Sink waste Fibre optic Telephone call box Feeder pillar Telecom inspection Gully Gas meter Trapped inlet Gas valve Trapped outlet High voltage Telephone pole Inspection chamber Underground storage tank Invert level Unable to lift Kilo volts Unable to find Land drain UTGA Unable to gain access Lamp hole Unable to rod Lamp post Unable to survey Low voltage Vitrified clay MDPE Medium density polyethylene Vent pipe Water level Marker post Water meter NFI No further information SUI Class Definition, Quality Level Locates QUALITY A shown after pipe size or depth in small case —a; — QUALITY B shown after pipe size or depth in small case -b; $\frac{100-b}{1000}$ $\frac{100-b}{1000}$ QUALITY C shown after pipe size or depth in small case -c; 100-c $-\epsilon 0.65-c$ QUALITY D shown after pipe size or depth in small case -d; 100-c $-\epsilon 0.65-d$ $-\epsilon 0.65-d$ Notes for underground services I. Where no cover level is available, depths to pipe inverts are shown thus; dti 0.95 II. Depths of services at inspection chambers, where possible, are shown thus; <mark>dti 0.95c</mark>
III. Depths obtained electronically are generally to the centre of the service and IV. Number of duct ways, where known, shown thus; 2W
 V. Pipe sizes, which cannot be obtained by visual survey, are taken from record drawings/marker plates where available. VI. Cable routes shown as a single line may actually consist of many cables. VII. Electric cable routes shown are assumed to be LV unless otherwise annotated VIII. Information taken from records is suffixed thus; (R) IX. Drainage pipe sizes & invert levels have been determined without man entry into chambers. Every effort has been made to correctly obtain this information, however, accuracy is dependent on visibility from the surface. X.To assist with clarity of presentation, services and drains have been extended within buildings. REVISION DESCRIPTION DATE SIG CHK

SHEET 13 OF 21



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RIDLEY ARCHITECTS

SANDSTONE BUILDINGS 23-39 BRIDGE ST, SYDNEY, NSW

Surveyed SH/CB/AB AMM Drawn Checked SHH

Scale at A1 1:50 DBYD Ref VARIOUS

Drawing No. NSW16-02-01

Rev. 0 NSW16-02-01.DWG