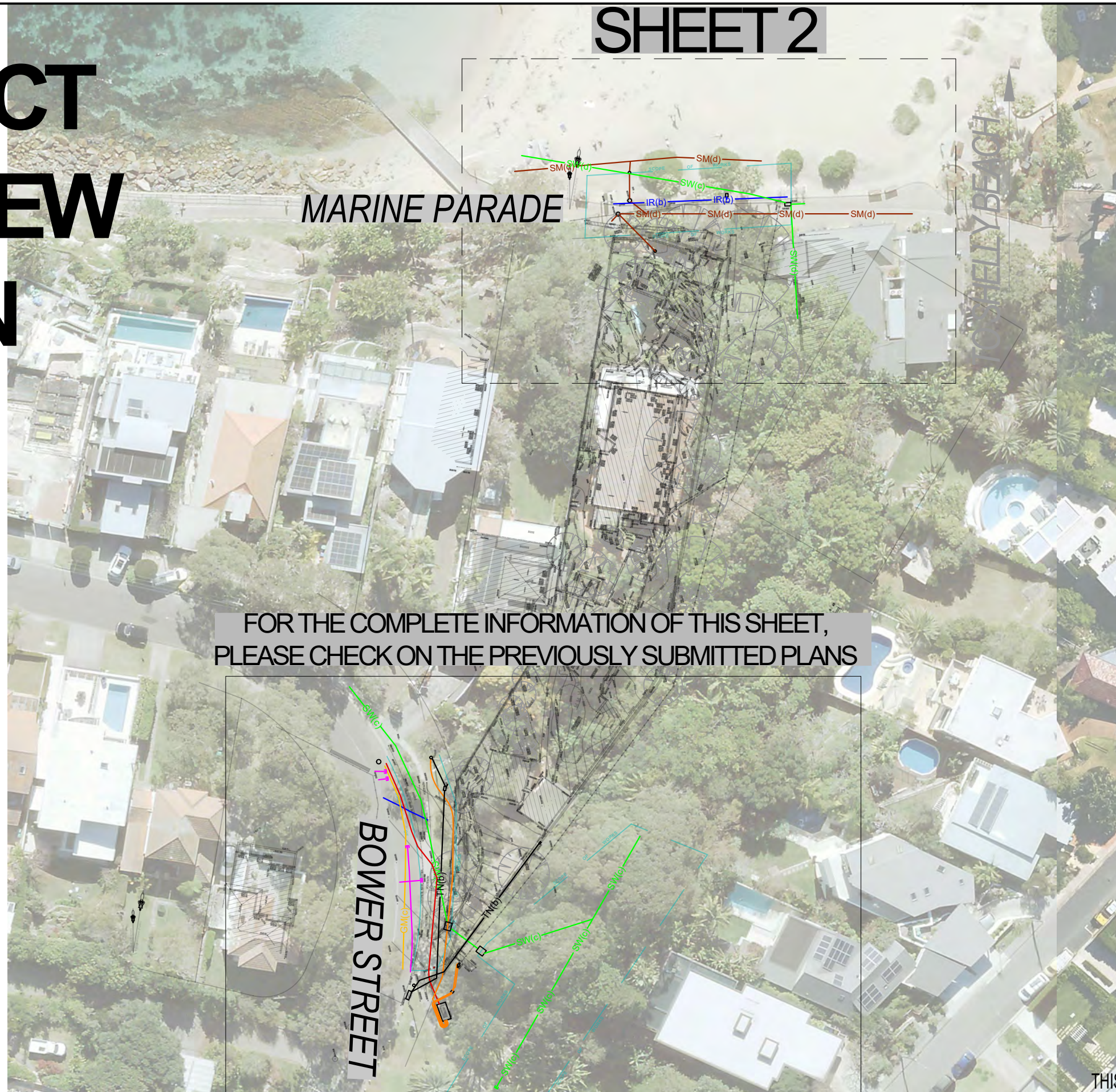


# PROJECT OVERVIEW PLAN

## SHEET 2



FOR THE COMPLETE INFORMATION OF THIS SHEET,  
PLEASE CHECK ON THE PREVIOUSLY SUBMITTED PLANS

THIS DRAWING IS NOT TO SCALE



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 W: www.geoscopelocating.com.au

ISSUE	DETAILS OF AMENDMENT	BY	DATE	LOCATED BY	NOTES
A	UTILITY INVESTIGATION	JM	02-02-2023	MW	THIS PLAN MUST BE READ IN CONJUNCTION WITH ALL SHEETS FOR ADDITIONAL WARNINGS, NOTES AND LEGENDS.  TRACEABLE SERVICES WERE LOCATED USING ELECTROMAGNETIC AND GPR LOCATING METHODS.  GEOSCOPE ADVISE TO POTHOLE THESE SERVICES TO CONFIRM DEPTHS AND LOCATION FINDINGS PRIOR TO ANY EXCAVATION WORKS.
B	SURVEY AND FILE OVERLAY	JM	27-03-2023	---	
C	UTILITY INVESTIGATION (STORMWATER)	JM	26-05-2023	JA	
D	STORMWATER INVESTIGATION (MARINE PARADE)	JA	11-07-2023	MW	
				APPROVED BY	
				SW	
				LOCATED DATE	
				24-03-2023, 25-05-2023, 10-07-2023	

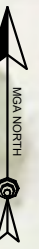
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DRAWING TITLE		
UTILITY INVESTIGATION		
SITE LOCATION		
32 BOWER STREET, MANLY		
DRAWING NUMBER		
20230711SUI		
DRAWING FILE NAME		
20230711SUI - 32 BOWER STREET, MANLY		
HEIGHT DATUM	COORDINATE SYSTEM	SHEET
-	-	01 OF 04

A3





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				DRAFTED BY JA
				CHECKED BY MW
				APPROVED BY SW
				LOCATED DATE 24-03-2023, 25-05-2023, 10-07-2023

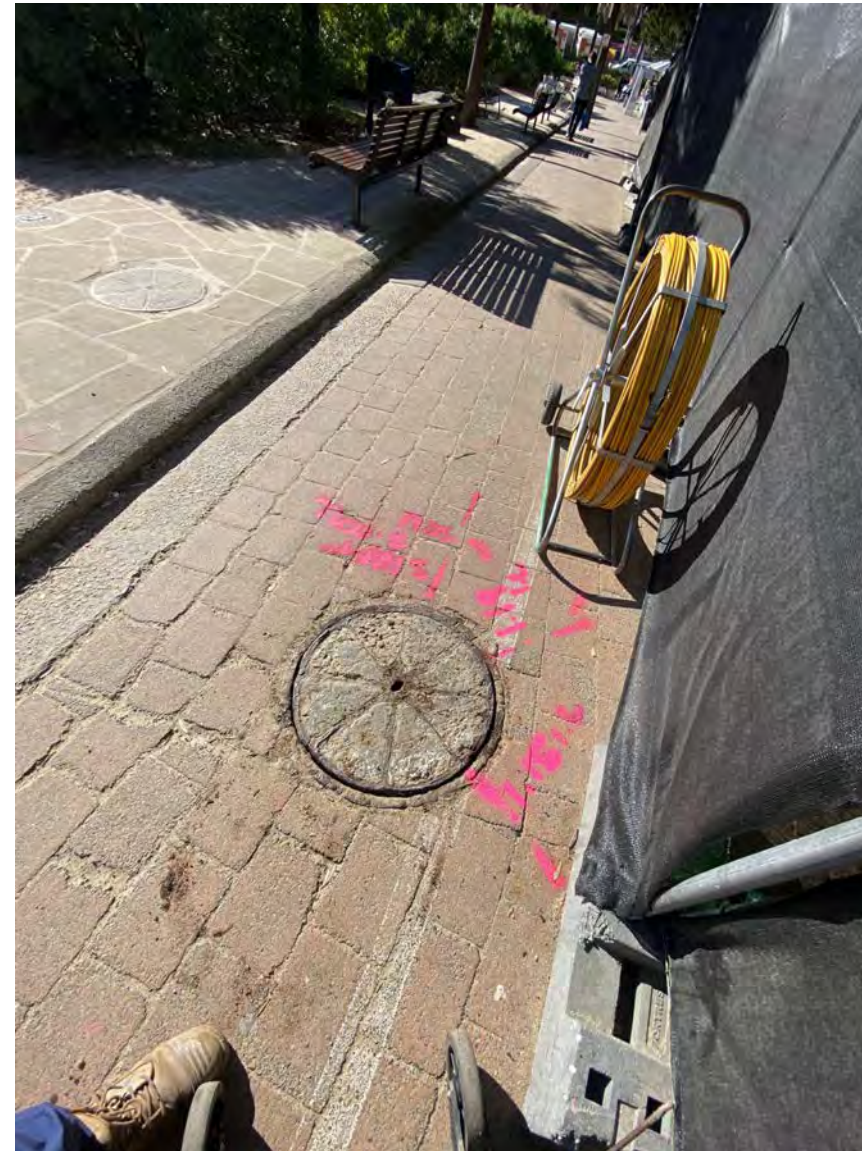
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**CLIENT**

<b>DRAWING TITLE</b> UTILITY INVESTIGATION		
<b>SITE LOCATION</b> 32 BOWER STREET, MANLY		
<b>DRAWING NUMBER</b> 20230711SUI		
<b>DRAWING FILE NAME</b> 20230711SUI - 32 BOWER STREET, MANLY		
<b>HEIGHT DATUM</b> -	<b>COORDINATE SYSTEM</b> -	<b>SHEET</b> 02 OF 04
		<b>A3</b>



# SEWER MANHOLE - VERTICAL SHAFT



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C	UTILITY INVESTIGATION (STORMWATER)	JM	26-05-2023	JA	
D	STORMWATER INVESTIGATION (MARINE PARADE)	JA	11-07-2023	SW	

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**CLIENT**  
**beebo constructions**

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<b>SITE LOCATION</b> 32 BOWER STREET, MANLY		
<b>DRAWING NUMBER</b> 20230711SUI		
<b>DRAWING FILE NAME</b> 20230711SUI - 32 BOWER STREET, MANLY		
<b>HEIGHT DATUM</b> -	<b>COORDINATE SYSTEM</b> -	<b>SHEET</b> 03 OF 04 <b>A3</b>



**AUSTRALIAN STANDARD AS 5488-2019:  
CLASSIFICATION OF SUBSURFACE UTILITY INFORMATION (SUI CLASSIFICATION)**

SUI CLASSIFICATION FROM THE AUSTRALIAN STANDARD (AS 5488-2019) ALLOWS THE USER OF THIS INFORMATION TO FULLY UNDERSTAND THE GATHERED INFORMATION AND DETERMINED QUALITY LEVELS. THE QUALITY LEVELS (QL-A, QL-B, QL-C, QL-D) REFER TO THE ACCURACY OF EACH INFORMATION COLLECTED ON SUBSURFACE UTILITIES ON THIS PLAN. WITH THESE QUALITY LEVELS, PROJECT RISKS RELATED TO UNDERGROUND UTILITIES CAN BE PROPERLY MANAGED. BELOW ARE THE DESCRIPTION OF EACH QUALITY LEVEL WITH QUALITY LEVEL A (QL-A) AS THE HIGHEST OF ALL THE QUALITY LEVELS. HIGHER QUALITY LEVEL CORRESPONDS TO A MORE ACCURATE INFORMATION ON SUBSURFACE UTILITIES.

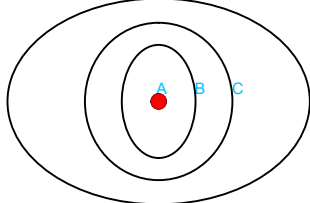
**QUALITY LEVEL A (QL-A)** IS THE HIGHEST QUALITY LEVEL OF ACCURACY WITH AN ABSOLUTE LOCATION IN THREE DIMENSIONS (X, Y, Z COORDINATES). THE MAXIMUM HORIZONTAL AND VERTICAL TOLERANCE IS ±50 MM. THIS IS OBTAINED BY USING A NON-DESTRUCTIVE EXCAVATION (POTHOLING) OR BY MEASURING DIRECTLY TO THE UTILITIES (I.E. MANHOLE). THE VERTICAL INFORMATION FOR THIS LOCATING METHOD IS ON THE TOP OF THE SHALLOWEST PART OF THE LOCATED SERVICE—UNLESS STATED INVERT OR OBVERT MEASUREMENT. IN ADDITION, QL-A ALSO CONFIRMS PIPE DETAILS SUCH AS ITS SIZE, MATERIAL, AND CONDITION.

**QUALITY LEVEL B (QL-B)** IS THE MOST COMMON FORM OF UTILITY LOCATING WHICH PROVIDES A RELATIVE SUBSURFACE LOCATION IN THREE DIMENSIONS (X, Y, Z COORDINATES). THE UTILITIES IN THIS LEVEL USES METHODS BY PHYSICALLY LOCATING A KNOWN SERVICE BY USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS, SONDES OR FLEXI TRACE, AND ACOUSTIC PULSE EQUIPMENT. THE MINIMUM REQUIREMENT FOR THIS QUALITY LEVEL IS RELATIVE SPATIAL POSITION WITH A MAXIMUM HORIZONTAL TOLERANCE OF ±300 MM AND A MAXIMUM VERTICAL TOLERANCE OF ±500 MM. THIS QUALITY LEVEL IS AN INDICATION OF EXISTENCE OF SUBSURFACE UTILITIES AND DOES NOT VALIDATE THE LOCATION AND ATTRIBUTES BECAUSE ELECTRONIC DETECTION IS NOT RECOMMENDED FOR OBTAINING ACCURATE DEPTH INFORMATION DUE TO INTERFERENCE FROM OTHER ADJACENT SERVICES AND/OR DUE TO GEOLOGICAL CONDITIONS. IN ADDITION, IT IS NOT ALWAYS ENTIRELY ACCURATE DUE TO DIFFERING ELECTROMAGNETIC FIELDS, SOIL CONDITIONS, AND MULTIPLE BANKS OF CABLES AFFECTING THE LOCATING SIGNAL.

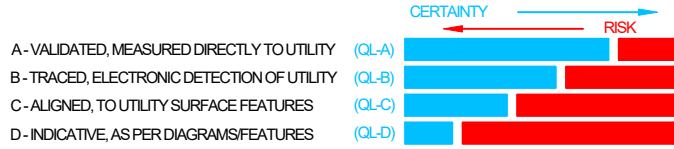
**QUALITY LEVEL C (QL-C)** CORRELATES THE SURVEY OF VISIBLE UTILITY SURFACE FEATURES SUCH AS PITS, POLES, MARKER PLATES, WATER HYDRANTS, AND ACQUIRED BEFORE YOU DIG AUSTRALIA (BYDA) PLANS TO DRAW A STRING WHICH SHOWS THE APPROXIMATE POSITION OF THE SERVICES. IN ADDITION, THIS IS BEING USED FOR LOCATING METHODS WHICH WAS ABLE TO DETECT AN UNKNOWN UNIDENTIFIED ENTITIES OR SERVICES (I.E. GROUND PENETRATING RADAR (GPR)). FOR THIS QUALITY LEVEL, THE MINIMUM REQUIREMENT FOR THIS QUALITY LEVEL IS RELATIVE SPATIAL POSITION WITH A MAXIMUM ±300 MM HORIZONTAL TOLERANCE; HOWEVER, THIS METHOD DOES NOT USUALLY SHOW MULTIPLE BANKS OF CABLES AND THREE-DIMENSIONAL INFORMATION.

**QUALITY LEVEL D (QL-D)** IS THE LOWEST OF ALL THE QUALITY LEVELS AS PER AUSTRALIAN STANDARD (AS 5488-2019). THIS IS THE MOST BASIC LEVEL OF UTILITY LOCATIONS BY USING ONLY THE INFORMATION BASED ON THE EXISTING BEFORE YOU DIG AUSTRALIA (BYDA) PLANS, OTHER ENGINEERING AND DESIGN PLANS, AND BY MEASURING BOUNDARY OFFSETS. THIS QUALITY LEVEL COULD BE A SIMPLE APPROXIMATION FROM SITE RECORDS, ANECDOTAL EVIDENCE, OR A SERVICE WHICH WAS NOT LOCATED USING ELECTRONIC OR GROUND PENETRATING RADAR METHODS. THIS METHOD OF UTILITY LOCATING SHOULD ALWAYS BE TREATED AS AN INDICATION OF THE PRESENCE OF A SERVICE ONLY AND SHOULD NOT BE USED FOR DESIGN.

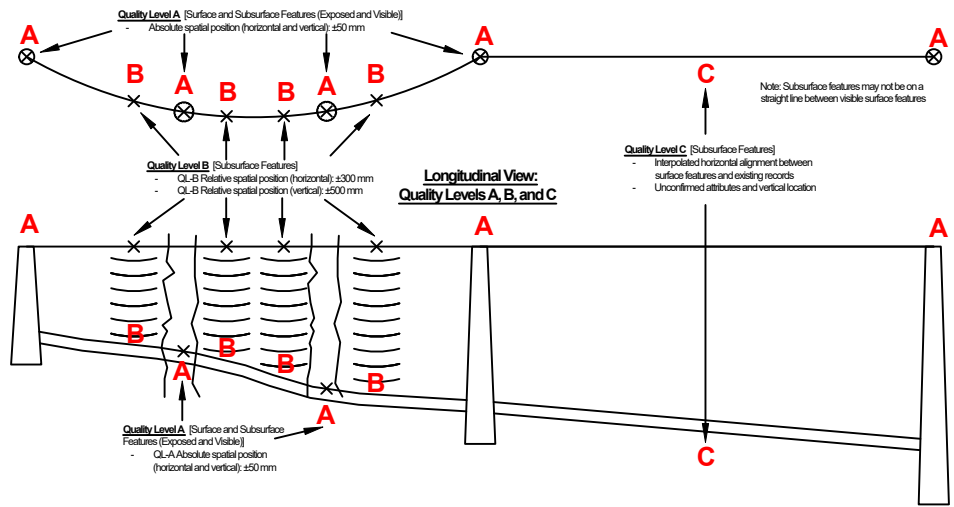
**SUI QUALITY LEVEL CONFIDENCE ILLUSTRATION**



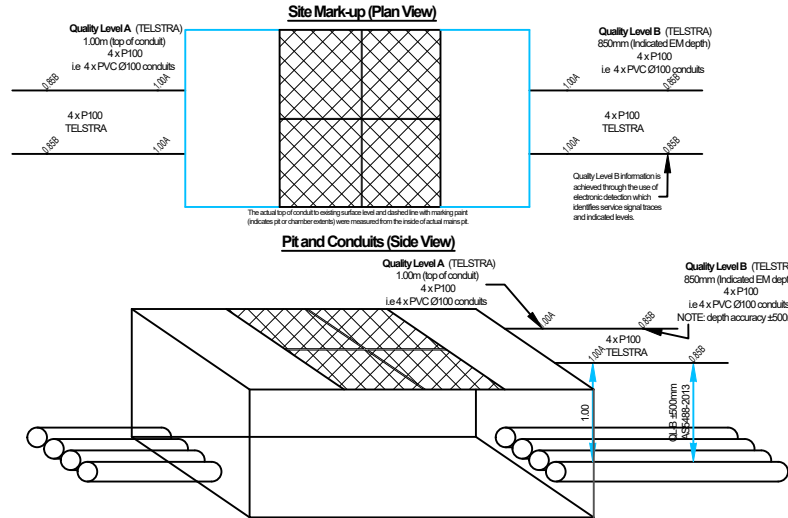
**UTILITY POSITIONING CLASSIFICATION**



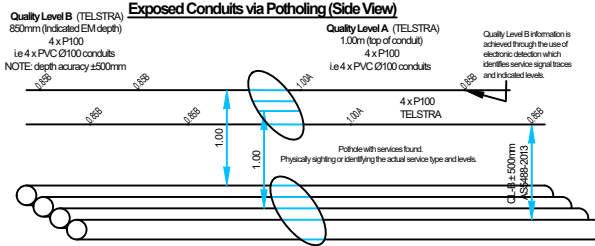
**VARYING QUALITY LEVELS**  
As per AS 5488-2019



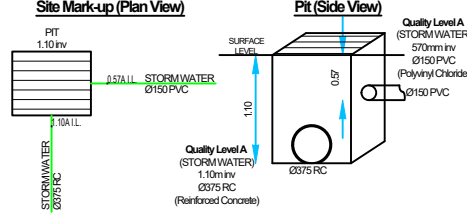
**ILLUSTRATION OF (TELSTRA) MANHOLE OR MAINS PIT**



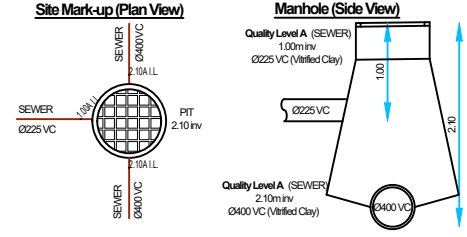
**ILLUSTRATION OF PHYSICAL VERIFICATION - QUALITY LEVEL A**



**ILLUSTRATION OF STORM WATER GRATE PIT**



**ILLUSTRATION OF SEWER MANHOLE OR PIT**



**UTILITY AND SURVEY ABBREVIATIONS**

LEGEND	DESCRIPTION	LEGEND	DESCRIPTION
∅	Pipe Diameter	AHD	Australian Height Datum
S	Steel	EOT	End of Trace
AC	Asbestos Cement	FOD	Full of Debris
BH	Bore Hole	FW	Full of Water
CI	Cast Iron	GRP	Glass Reinforced Plastics
DH	Drill Hole	HYD	Hydrant
DI	Ductile Iron	inv/IL	Invert Level
EW	Earthenware	MGA	Map Grid of Australia
FH	Fire Hydrant	obv/OL	Obvert Level
GI	Galvanised Iron	OCA	Out of Area
GV	Gas Valve	PVC	Polyvinyl Chloride
IC	Inspection Cover	RMS	Roads and Maritime Services
KI	Kerb Inlet	SCL	Steel Cement (Mortar) Lined
LP	Light Pole	SGW	Salt Glazed Ware
MH	Manhole Cover	UTL	Unable to Locate
MS	Mild Steel	UTO	Unable to Open
PE	Polyethylene	UTS	Unable to Survey
PP	Power Pole	UTT	Unable to Trace
RC	Reinforced Concrete	CICL	Cast Iron Cement Lined
RL	Reduced Level	CONC	Concrete
SS	Stainless Steel	DICL	Ductile Iron Cement Lined
SV	Stop Valve	FIBG	Fibreglass
VC	Verfired Clay	HDPE	High Density Polyethylene
VP	Vent Pipe	MISCL	Mild Steel Cement Lined
VS	Vent Shaft	PVC/M	Polyvinyl Chloride Modified
WI	Wrought Iron	PVC-U	Polyvinyl Chloride Unplasticised
WM	Water Meter	UGO	Underground to Overhead Service

**DISCLAIMER**

GEOSCOPE HAVE MARKED UTILITIES WITHIN AN AREA SPECIFIED BY THE CLIENT. UTILITIES HAVE BEEN REFERENCED TO THE RELATIVE UTILITY OWNER DIAGRAMS, HOWEVER, ALL UTILITIES MAY NOT HAVE BEEN SHOWN. UTILITY LINES WERE INTERPOLATED BETWEEN POINTS THAT WERE GATHERED ON SITE BY UTILITY DETECTION METHODS AND MARKED BASED ON THE AUSTRALIAN STANDARD OF UTILITY CLASSIFICATION. UTILITY DESCRIPTIONS WERE LABELLED FROM MEASURED VISIBLE SERVICES ORIGINATING FROM CLASS (QL-A) POINTS AND/OR FROM DIAGRAMMATIC RECORDS.

(QL-A) PIPE AND CONDUIT DIAMETERS INDICATED HAVE BEEN MEASURED AS ACCURATELY AS POSSIBLE FROM THE TOP OF AN OPEN MANHOLE. SOME PIPE WORK MAY HAVE SLIGHT VARIANCE IN DIAMETER DUE TO THE ABILITY TO MEASURE UNDER PIT LIDS OR EROSION AND/OR FORMED OR SHAPED BELLMOUTHS LARGER THAN THE ACTUAL INSIDE DIAMETER. FURTHER INVESTIGATION MAY BE NECESSARY.

ONLY MANHOLE CONFIRMATION AND POTHOLED OR TRENCHED SERVICES AREAS ARE CLASS (QL-A). ALL OTHER AREAS ARE INTERPOLATED BETWEEN CLASS (QL-B) POINTS USING A VARIETY OF LOCATING METHODS INCLUDING EM AND GPR.

ELECTRONIC DETECTION MUST NOT BE SOLELY USED TO DETERMINE LOCATION FOR CONSTRUCTION PURPOSES. THE ELECTRONIC (INDICATIVE) SUBSURFACE MEASUREMENTS MUST BE PROVEN BY PHYSICALLY SIGHTING THE ASSET. ELECTROMAGNETIC LOCATING WILL DETECT ALMOST ALL BURIED CONDUCTORS, BUT THERE ARE SOME OBJECTS THAT DO NOT RADIATE ANY DETECTABLE SIGNAL.

EXPOSING UNDERGROUND STRUCTURES BY POTHOILING USING HAND-HELD TOOLS OR NON-DESTRUCTIVE EXCAVATION METHODS TO DETERMINE THE PRECISE LOCATION AND EXTENT OF STRUCTURES BEFORE ANY MECHANICAL MEANS OF EXCAVATION IS RECOMMENDED.

SEWER LINES ARE SHOWN AS CLASS (QL-C) AND (QL-D) INFORMATION ONLY DRAWN FROM MANHOLE AND PIT INVESTIGATIONS USING FLEXI-ROD AND DRAIN DYE METHODS. FURTHER INVESTIGATION WILL BE NECESSARY.

THIS PLAN IS FOR DESIGN PURPOSES ONLY. IT DOES NOT REPLACE THE PLANS PROVIDED BY THE UTILITY ASSET OWNERS IN THE DESIGNATED WORK AREA THROUGH THE BEFORE YOU DIG AUSTRALIA (BYDA) SERVICE. CONTRACTORS ARE REMINDED OF THEIR OWN 'DUTY OF CARE' AND SHOULD CONDUCT THEIR OWN 'BEFORE YOU DIG AUSTRALIA (BYDA)' PRIOR TO EXCAVATION OR CONSTRUCTION.

THESE PLANS DO NOT GIVE APPROVAL TO DIG. PERMITS AND APPROVALS MUST BE OBTAINED FROM THE RELEVANT AUTHORITIES. THIS PLAN MUST BE PRINTED IN COLOUR. FAILURE TO DO SO WILL INVALIDATE THE INFORMATION SHOWN ON THIS PLAN.

**GEOSCOPE UTILITY SERVICES LEGEND**

	TELSTRA NETWORK	OPTIC UNDERGROUND	COMMUNICATIONS	NON-TELSTRA FIBRE	
CLASS QL-A	— TN(a) —	— OU(a) —	— T(a) —	— OF(a) —	
CLASS QL-B	— TN(b) —	— OU(b) —	— T(b) —	— OF(b) —	
CLASS QL-C	— TN(c) —	— OU(c) —	— T(c) —	— OF(c) —	
CLASS QL-D	— TN(d) —	— OU(d) —	— T(d) —	— OF(d) —	
<b>ELECTRIC UNDERGROUND</b>		<b>LOW VOLTAGE</b>	<b>HIGH VOLTAGE</b>	<b>TRAFFIC SIGNALS</b>	
CLASS QL-A	— EU(a) —	— LV(a) —	— HV(a) —	— TS(a) —	
CLASS QL-B	— EU(b) —	— LV(b) —	— HV(b) —	— TS(b) —	
CLASS QL-C	— EU(c) —	— LV(c) —	— HV(c) —	— TS(c) —	
CLASS QL-D	— EU(d) —	— LV(d) —	— HV(d) —	— TS(d) —	
<b>WATER</b>		<b>WATER MAIN</b>	<b>WATER SERVICE</b>	<b>STORM WATER</b>	
CLASS QL-A	— W(a) —	— WM(a) —	— WS(a) —	— SW(a) —	
CLASS QL-B	— W(b) —	— WM(b) —	— WS(b) —	— SW(b) —	
CLASS QL-C	— W(c) —	— WM(c) —	— WS(c) —	— SW(c) —	
CLASS QL-D	— W(d) —	— WM(d) —	— WS(d) —	— SW(d) —	
<b>GAS MAIN</b>		<b>GAS SERVICE</b>	<b>HIGH PRESSURE GAS</b>	<b>RECYCLED WATER</b>	
CLASS QL-A	— GM(a) —	— GS(a) —	— HG(a) —	— RW(a) —	
CLASS QL-B	— GM(b) —	— GS(b) —	— HG(b) —	— RW(b) —	
CLASS QL-C	— GM(c) —	— GS(c) —	— HG(c) —	— RW(c) —	
CLASS QL-D	— GM(d) —	— GS(d) —	— HG(d) —	— RW(d) —	
<b>FIRE HYDRANT</b>		<b>FIRE SERVICE</b>	<b>SEWER MAIN</b>	<b>SEWER</b>	
CLASS QL-A	— FH(a) —	— FS(a) —	— SM(a) —	— S(a) —	
CLASS QL-B	— FH(b) —	— FS(b) —	— SM(b) —	— S(b) —	
CLASS QL-C	— FH(c) —	— FS(c) —	— SM(c) —	— S(c) —	
CLASS QL-D	— FH(d) —	— FS(d) —	— SM(d) —	— S(d) —	
CLASS QL-A		<b>UNIDENTIFIED PIPE</b>		<b>UNKNOWN RADAR</b>	
CLASS QL-B		— UP(a) —		— UR(a) —	
CLASS QL-C		— UP(b) —		— UR(b) —	
CLASS QL-D		— UP(c) —		— UR(c) —	

**SURVEY SYMBOLS LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊕	Above Ground Joining Post	⊙	Unidentified Pole/Power Pole
⊖	Std 1.1m by 1.1m Main Pit	⊘	Speed Camera
⊗	Telephone Pole	⊛	Seismic Test Shot
⊙	Telephone Single Concrete Pit	⊜	Unidentified Service
⊙	Telephone Twin Concrete Pit	⊝	Underground Tank
⊙	Mobile Phone Transmitter	⊞	AP/DFH/GI/Pipe or RMCB
⊙	Optical Fibre Junction Box/Pit	⊟	Bolt/Dumpy/Nail/Spike
⊙	Optical Fibre Cable Marker	⊠	Peg/Boundary Nail/Spig
⊙	Telephone Triple Concrete Pit	⊡	RTA Control Mark/PMSSM
⊙	Telephone Box Point	⊢	Miscellaneous Survey Mark
⊙	Telephone Cable Marker	⊣	Broad Arrow
⊙	Telephone Distribution Pillar	⊤	Default MX Survey Mark
⊙	Gas Manhole Cover	⊥	Trig Station
⊙	High Pressure Gas Pipeline Marker	⊦	Drainage Junction Manhole
⊙	Gas Meter	⊧	End of Wingwall
⊙	Gas Pipeline Marker	⊨	Flood Height
⊙	Gas Regulator Box	⊩	Gully Pit at Gutter Line
⊙	Gas Test Point	⊪	Bottom of Headwall
⊙	Gas Vent Pipe	⊫	Top of Headwall
⊙	Distribution Fuse Point	⊬	Invert - 225 mm Diameter
⊙	Electricity Cable Junction Box/Manhole	⊭	Invert - 1800 mm Diameter
⊙	Transformer Cabinet Centre	⊮	Inlet to Sump
⊙	Underground Power Service Pillar	⊯	Invert of Pipe
⊙	High Tension Pylon	⊰	Top of Concrete Junction Box/Petrol Pump
⊙	Gasden Light	⊱	Obvert of Pipe
⊙	Pole - Light	⊲	Invert of Subsoil Drain Outlet
⊙	Pole - Power and Light	⊳	Subsoil Drain Flush Point
⊙	Pole - Power and Transformer	⊴	Water Level Point
⊙	Slay Anchor Pole	⊵	Slay Anchor Pole
⊙	Slay Pole	⊶	Recycled Water Earth Terminal
⊙	Light with Outreach	⊷	Recycled Water Hydrant
⊙	Sewer Lamphole	⊸	Recycled Water Main Marker
⊙	Sewer Manhole	⊹	Recycled Water Meter
⊙	Sewer Vent Pipe	⊺	Recycled Water Stop Valve
⊙	Bore Hole	⊻	Recycled Water Tap
⊙	MX Break String	⊼	Water Air Valve
⊙	Red Light Camera	⊽	Water Earth Terminal
⊙	Camera - Flash Unit	⊾	Water Fire Hydrant
⊙	Gatic Cover Lid	⊿	Water Hydrant
⊙	Geotech Test Point	⊀	Water Main Marker
⊙	Pot Hole - Null Level	⊁	Water Meter
⊙	Pot Hole - With RL	⊂	Water Stop Valve
⊙	High Pressure Oil Pipeline Marker	⊃	Water Tap

NOTES THE DEPTH OF THE UNDERGROUND SERVICE DETERMINED USING LOCATING METHODS PERFORMED. QUALITY LEVELS INDICATED BESIDE THE DEPTH. IN THE EXAMPLE, THE DEPTH IS 800mm AND THE QUALITY LEVEL IS A.

EXAMPLE OF ELECTRICAL CABLES LOCATED BY QUALITY LEVEL QL-B WITH THE DEPTH INDICATING BETWEEN 500mm to 600mm BELOW THE SURFACE VIA ELECTROMAGNETIC LOCATING TRACE.

EXAMPLE OF STORM WATER PIPE PLOTTED BY QUALITY LEVEL QL-D WITH NO DEPTH INDICATION AS THE PIPE WAS NOT TRACED AND/OR UNABLE TO BE TRACED BETWEEN ACCESSIBLE STORM WATER PITS.

SCOPE OF WORKS FOR SUBSURFACE UTILITY INVESTIGATION



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				SW	
				LOCATED DATE	
				24-03-2023, 25-05-2023, 10-07-2023	

**CLIENT**  
beebo constructions

**DRAWING TITLE**  
UTILITY INVESTIGATION

**SITE LOCATION**  
32 BOWER STREET, MANLY

**DRAWING NUMBER**  
20230711SUI

**DRAWING FILE NAME**  
20230711SUI - 32 BOWER STREET, MANLY

**HEIGHT DATUM**  
—

**COORDINATE SYSTEM**  
—

**SHEET**  
04 OF 04

**A3**