UNDERGROUND SERVICES MAP

Client: Hutchinson Builders

Address: Gympie Civic Centre: 34 Mellor St, Gympie QLD 4570

Date: 01/06/26

SOUTH-EAST SCANNING PTY LTD

www.southeastscanning.com.au

AS5488: Classification of Subsurface Utilities Information

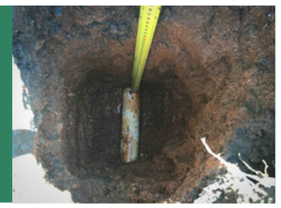
A Guide to Reading and Interpreting Utillity Location Reports

AS5488: Classification of Subsurface Utility Information (SUI) is the Australian Standard used to classify the reliability of underground utility information. The standard does not guarantee the accuracy of utility locations. Instead, it provides a framework for communicating the level of confidence in the data.

The standard defines four Quality Levels, ranked from lowest confidence (QL-D) to highest confidence (QL-A). These levels help engineers, designers, and contractors understand how much they can rely on available information when planning or undertaking works.

QLA

QL-A represents the highest level of confidence and is achieved by physically exposing the utility. This is typically performed using vacuum excavation, potholing, or careful hand excavation to visually confirm the utility's position. QL-A verification allows accurate identification of the utility's exact location, depth, size, and orientation.



Highest confidence

QLB

QL-B information is obtained using surface based geophysical methods such as electromagnetic locating (EMF). These techniques allow technicians to detect and mark the probable horizontal position of utilities without excavation. While confidence is significantly improved, depth estimates remain approximate and some utilities may remain undetectable.

High confidence

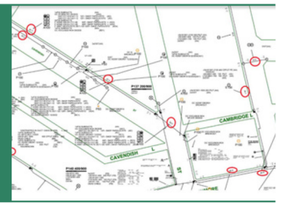
QLC

QL-C correlates existing utility records with visible surface features such as pits, valves, marker posts, and service boxes. This process helps infer the likely alignment of utilities between known surface points. However, the precise underground location and depth of services remain uncertain.

Moderate confidence

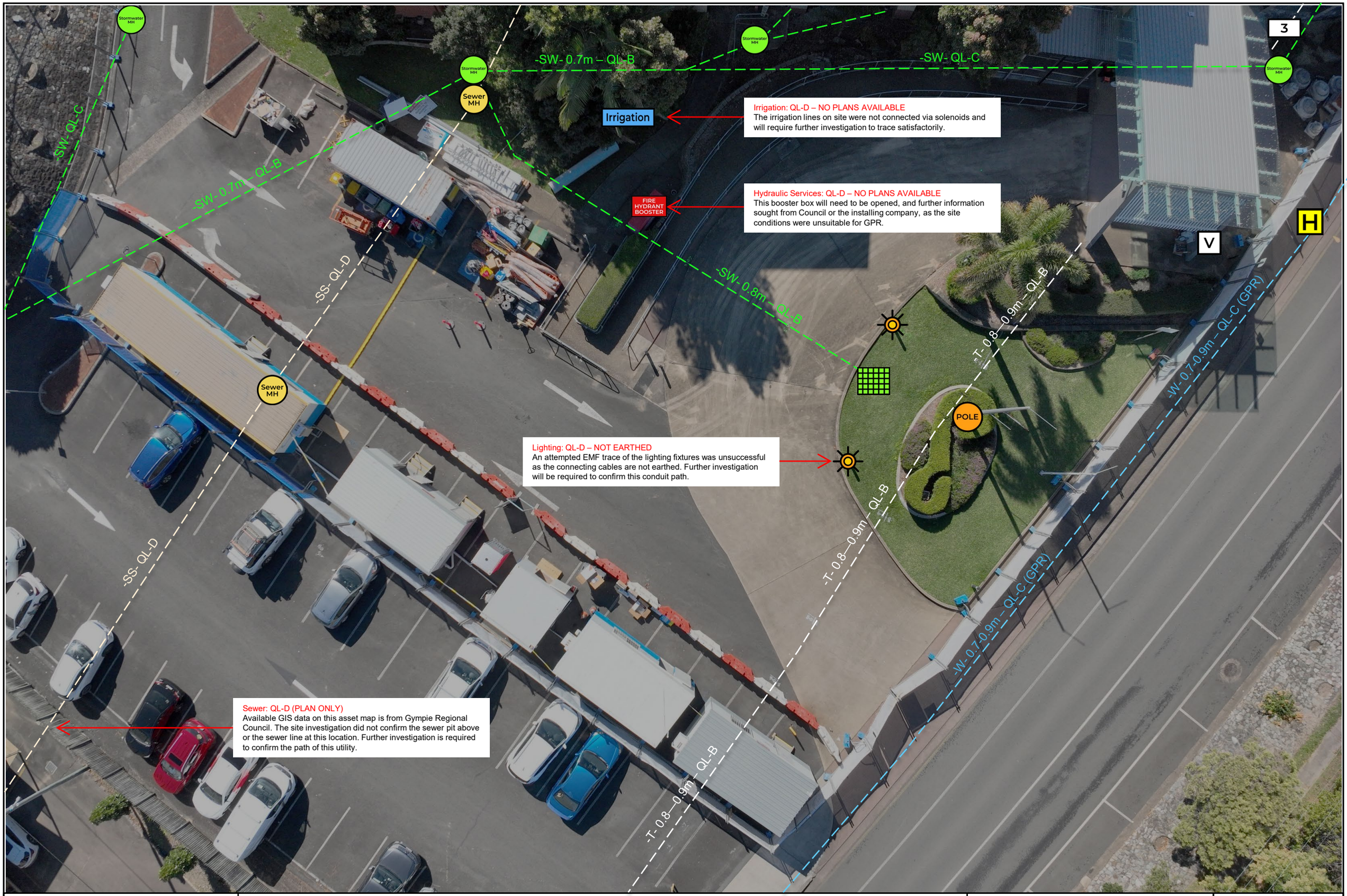
QLD

QL-D is the lowest confidence level and is based entirely on existing records such as utility plans, as-built drawings, and Dial Before You Dig information. These records can be incomplete, outdated, or inaccurate and should only be used for preliminary planning purposes. QL-D information alone is not suitable for making excavation decisions.



Lowest confidence

AS5488 does not define how utilities must be located. Instead, it classifies the confidence level of the information provided so designers and contractors can understand the risk associated with underground services.



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CERTLOC CERTIFIED LOCATOR

AS5488: CLASSIFICATION OF SUBSURFACE UTILITIES INFORMATION - KEY

-E- ELECTRICITY	**-T-** COMMS	**-G-** GAS	**-SW-** DRAINAGE
-FW- FIRE	**-W-** WATER	**-SS-** SEWER	**-U-** UNKNOWN

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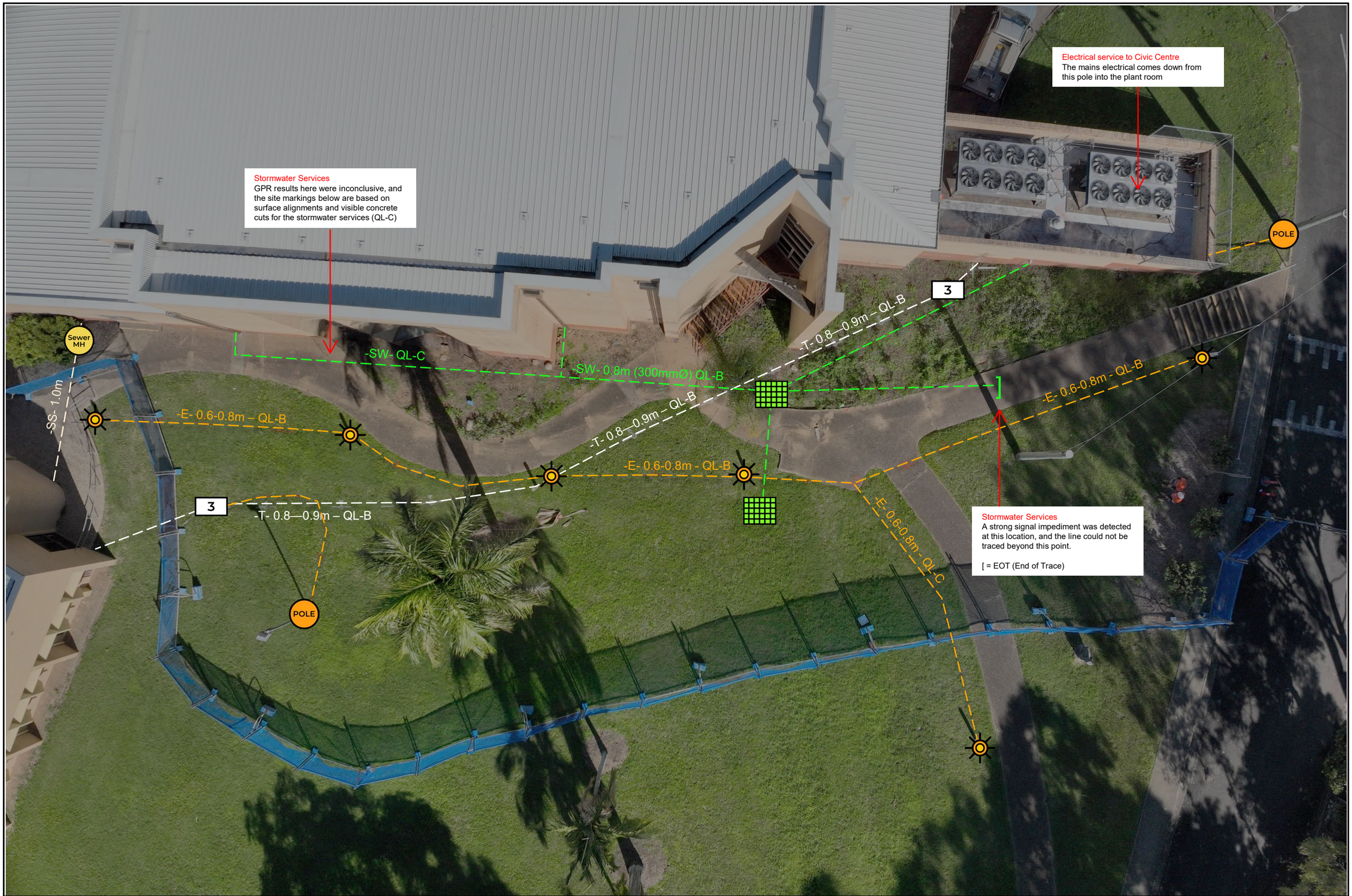
DRAWING #

1 OF 1



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TRAFFIC MANAGEMENT SIGNAGE INSTALLATION SITE NOTES

1.This plan shows the subsurface utilities identified across the works area in support of the proposed traffic management signage installation. Refer to the AS5488 classification key for the quality level applied to each asset.

2.Asset positions and depths shown are indicative only and are classified to AS5488 quality levels QL-B, QL-C, and QL-D as annotated. Several of the assets shown are QL-D, derived from records or limited surface indications, and their position and depth should be treated as approximate.

3.Given the large area covered and the volume of data presented, cross-reference the site markings on this plan with the site photographs contained in the report before relying on the position of any individual asset.

4.This plan is not a clearance to excavate. On the inspection date, the utilities were located by non-destructive methods only. Prior to any intrusive work, including the boring or driving of signposts and footings, all assets in the vicinity should be positively identified to QL-A by potholing.

5.As a secondary control in areas clear of all marked assets, drilling should be limited to a maximum depth of 400mm. This is a risk-reduction measure, not a clearance to excavate, and it does not override note 4. It does not apply within 500mm of any marked asset, nor anywhere in the shallow sewer corridor, where drilling must not proceed until the asset has been positively identified to QL-A by potholing. The depths shown are QL-B at best and are not confirmed, so this limit reduces risk but does not guarantee clearance.

6.Red boxes indicate the proposed signage installation locations:

7.The FIVE P's of safe digging always apply: PLAN, PREPARE, POTHOLE, PROTECT, PROCEED.

8.Site photographs can be accessed here.

Telecommunications
Comms identified here at approximately 500mm depth (QL-B, depth not confirmed). Positively identify the service to QL-A by potholing before any drilling in this area. Do not rely on the general depth limit at this location..

Sewer Services
Exercise caution here due to a shallow sewer service ranging from 300 mm to 400 mm depth through this corridor.

-T- 0.4mm – QL-B
-T- 0.4mm – QL-B
-W- 0.7-0.9m – QL-C (GPR)
-T- 0.4mm – QL-B
-SS- SHALLOW – I.L. 350mm
-T- 0.4mm – QL-B
-T- 0.4mm – QL-B
-SS- SHALLOW – I.L. 450mm
-SS- SHALLOW – I.L. 400mm
-SW- I.L 0.8-0.9m
-SW- I.L 0.8-0.9m
-T- 0.8—0.9m – QL-B
-T- 0.8—0.9m – QL-B
-W- 0.7-0.9m – QL-C (GPR)
-W- 0.7-0.9m – QL-C (GPR)
-W- 0.7-0.9m – QL-C (GPR)
-W- 0.7-0.9m – QL-C (GPR)
-W- 0.7-0.9m – QL-C (GPR)
-W- 0.7-0.9m – QL-C (GPR)
-T- 0.5m – QL-B
-T- 0.5m – QL-B

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MAPPING LEGEND

Communication Features

1 PIT | 2 PIT | 3 PIT | 4 PIT

5 PIT | 6 PIT | 8 PIT | 9 PIT

AAPT PIT | AARNET PIT | B PIT | FOOTWAY ACCESS CHAMBER

COMMS CABINET | COMMS PIT | VOCUS PIT | COMMS PIT

COMMS PIT | D PIT | ELEVATED JOINT | NBN NODE

NBN PIT | NEXTGEN PIT | OPTUS PIT | PAY PHONE

UECOM PIT | PIPE PIT | POWERTEL PIT | TPG PIT

SECURITY CAMERA | PILLAR | SONDE LOCATE | VISIBLE CONDUIT

Electrical Features

ELECTRICAL PITS | GREEN BOY | EARTH | LIGHT

ELECTRICAL TRANSFORMERS | ELECTRICAL CABINET | LIGHTING POLE | SIGN

TRAFFIC SIGNAL BOX | SWITCH BOARD | TRAFFIC LIGHTS | QR LIGHTS | VISIBLE CONDUIT OR PIPE

Gas Features

GAS METER | GAS CYLINDER | TEST POINT | TRACE WIRE

GAS PIT | REGULATOR | ANODE | VALVE | BBQ

Sewer Features

INSPECTION OPENING | OVERFLOW RELIEF GULLY | VALVE | GREASE TRAP

MANHOLE

Other Features

BOOM GATE | BUS STOP | POTHOLE NUMBER # REQUEST | POTHLE NUMBER #O REQUEST | TOILET

Stormwater Features

GULLY PIT | INSPECTION OPENING | MANHOLE | GRATE

Water Features

WATER METER | IRRIGATION BOX | OVERFLOW RELIEF GULLY | IRRIGATION CONTROL CABINET

PUMP STATION | RPZ VALVE | WATER VALVE

SPRINKLER HEAD | TAP | WATER CHAMBER | VALVE BOX

HYDRANT | ABOVE GROUND HYDRANT | FIRE BOOSTER CABINET | FIRE HOSE

Terms and Conditions of Engagement

By engaging South-East Scanning Pty Ltd, the client accepts the following terms. All underground utility locations are conducted to AS5488 standards and must be pothole-verified.

The client remains responsible for duty of care obligations, including:

- Adhering to the "FIVE P's" of safe digging: PLAN, PREPARE, POTHOLE, PROTECT, PROCEED.
- Complying with all WHS and statutory requirements.

Client Responsibilities:

- Request and provide DBYD plans before scanning.
- Visually confirm utilities through potholing where excavation may affect services.
- Accept responsibility for any damage to services, persons, or property, including that caused by their own or our equipment.
- Follow minimum clearance rules set by service providers, available in the DBYD documentation.

South-East Scanning will assist in interpreting plans and locating services using electromagnetic and GPR methods but accepts no liability for plan inaccuracies or incomplete coverage. Clients acknowledge:

- GPR and EMF detection align with requested AS5488 quality levels, but some services (e.g., fibre, PVC) may be untraceable.
- Detection limitations mean no warranty is given regarding the presence or accuracy of utility locations.

The client indemnifies South-East Scanning against all claims arising from their breach of these terms or damages related to utility interactions.

AS5488-2022 – Subsurface Utility Information (SUI) Overview

AS5488-2022 sets national standards for identifying, classifying, and mapping underground utilities to reduce excavation risk.

Utility Information Quality Levels:

- **QL-D:** Based on records or anecdotal info; lowest confidence.
- **QL-C:** Surface feature correlation (e.g., valve covers); limited accuracy.
- **QL-B:** Uses tools like EMF and GPR for horizontal utility position; depth not confirmed.
- **QL-A:** Highest accuracy, confirmed via potholing or direct inspection.

GPR typically provides QL-B data, but due to ground variability, it may be classified as QL-C. While effective, GPR doesn't guarantee precise depth or position without further validation.

Applying AS5488 ensures safer design and excavation, as seen in projects like the Holcim Quarry survey.

Disclaimer

Utility locations shown result from field scanning (EMF, GPR) and client-supplied data. While every effort is made to ensure accuracy, South-East Scanning cannot guarantee all utilities are detected or are exact.

We accept no liability for errors or omissions in the data provided. Utility positions should be treated as indicative only. Verification through potholing is strongly recommended, especially where construction may be impacted.