

AVOIDING COSTLY UTILITY CONFLICTS



SUBSURFACE UTILITY ENGINEERING (SUE) Pre-Engineering Utility Investigation Solutions

Telecon's Subsurface Utility Engineering (SUE) Investigation Services provides Municipalities, Consulting Engineers, Developers, Property Owners, and Contractors timely and accurate underground utility information to pinpoint the locations of buried facilities within the public ROW and/or private properties.

Performing a thorough and accurate SUE Investigation, early in the engineering process, for any minor or major utility design, development, and/or proposed construction, avoids costly utility conflicts.



WHAT'S SUE?

The "Standard Guideline for Investigating and Documenting Existing Utilities", ASCE Standard 38-22 (updated version to ASCE 38-02) defines SUE as the specialty practice of civil engineering's Utility Engineering branch that includes the investigation, analysis, judgement, and documentation of existing Utility networks.

SUE identifies, locates, and characterizes existing utility infrastructure, investigating and detecting potential unknowns beneath the surface and limits potential disturbances to existing utility customers.



CLIENTS



Municipalities



Transit



Engineering Consultants



Developers / Builders



Utility Owners



Homeowners

OUR FOOTPRINT ACROSS ONTARIO By the Numbers



20+

Dedicated SUE Professionals



1 MILLION+

Meters of Utilities Designated
and Surveyed Annually



5,000+

Utility Maintenance Holes
Inspected Annually



75+

SUE Investigation Projects
Completed Annually



20+

Years of SUE Expertise

CONNECTING COMMUNITIES Our Story

Telecon's Subsurface Utility Engineering (SUE) Investigation Services is a division of Telecon. From a regional telecom networks builder in 1967 in Quebec (Canada), Telecon has grown into a world-class industry-leading telecom networks design, infrastructure and connectivity services provider, delivering diversified and scalable best-in-class, cost-effective and time-saving services and turnkey solutions to North American telecom operators and businesses. Our highly skilled team is firmly committed to supporting our customers in propelling tomorrow's connectivity in our communities, businesses and homes.

OUR SUE LEADING-EDGE SERVICES

Project Management

Utility Circulation

Record Research & Analysis

Pre-engineering Utility Designation

Surveying

Ground Penetrating Radar (GPR)

Sewer Invert Data Collection

Sewer Pipe Inspections

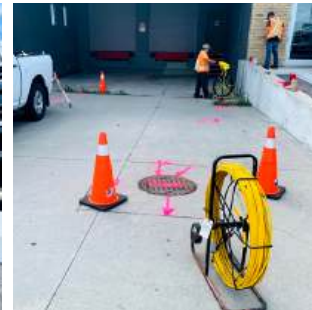
Confined Space Entry (CSE) Services

Traffic Control & Planning

Liaison with Hydrovac Excavation
service providers

AutoCAD / MicroStation

Professional Engineers – (P.Eng.) Review



SUE UTILITY QUALITY LEVELS

Utility Quality Level D

A value assigned to a Utility Segment or Utility Feature not visible at the ground surface whose estimated position is judged through Utility records, information from others, or from visual clues such as pavement cuts, obvious trenches, or existence of service.

Utility Quality Level C

A value assigned to a Utility Segment not visible at the ground surface whose estimated position is judged through correlating Utility records or similar evidence to Utility Features, visible aboveground and/or under-ground. The Utility Anchor Point on the Utility Features shall be tied to the Project Survey Datum with an accuracy of 0.2 ft (60 mm) horizontal.

Utility Quality Level B

A value assigned to a Utility Segment or subsurface Utility Feature whose existence and horizontal position is based on Geophysical Methods combined with professional judgment and whose location is tied to the Project Survey Datum.

Utility Quality Level A

A value assigned to that portion (x-, y-, and z-geometry) of a Utility Segment or subsurface Utility Feature that is directly exposed and measured and whose location and dimensions are tied to the Project Survey Datum. The Utility Segment or subsurface Utility Feature shall be tied to the Project Survey Datum with an accuracy of 0.1 ft (30 mm) vertical and to 0.2 ft (60 mm) horizontal for the measurements of the outside limits of the Utility Feature or Utility Segment that is exposed.

Source: Standard Guideline for the Investigating and Documenting Existing Utilities, ASCE (38-22), The American Society of Civil Engineers, 2022

SAFE.

PROVEN.

TRUSTED.

RELIABLE.

QUALITY-FOCUSED.

INNOVATIVE.



For more information

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