



Cablewave Utility Services

Presenting: "Digging" into locates, What's the Difference?

About us!

Established in 2014 in Sudbury with staff in Kitchener, Lindsay and Thunder Bay!

We provide leading solutions for both the public and private utility industry.

Specializing in telecommunication / electrical distribution engineering, damage prevention & construction management.

Locates! What Is the difference?

Public Utility Locates

Private Utility Locates

Dedicated Locator

Engineering Locates (SUE)

Why are locates required?

Safety is Number 1 for your staff, contractors and the general public.

Striking a utility can kill!

Utility Disruptions affect businesses, schools and residents.

Legislation requirements. (Ontario Reg. 213/91 – precautions concerning services, Ontario underground infrastructure notification systems act)

Who can Complete a Locate?

A utility locator is responsible for pinpointing the path of cables & pipes carrying utilities underground.

The ORCGA has set the groundwork and standard training required to be a utility locator with Damage Prevention Technician Program.

Training takes from 6 months to 1 year to become “competent”.

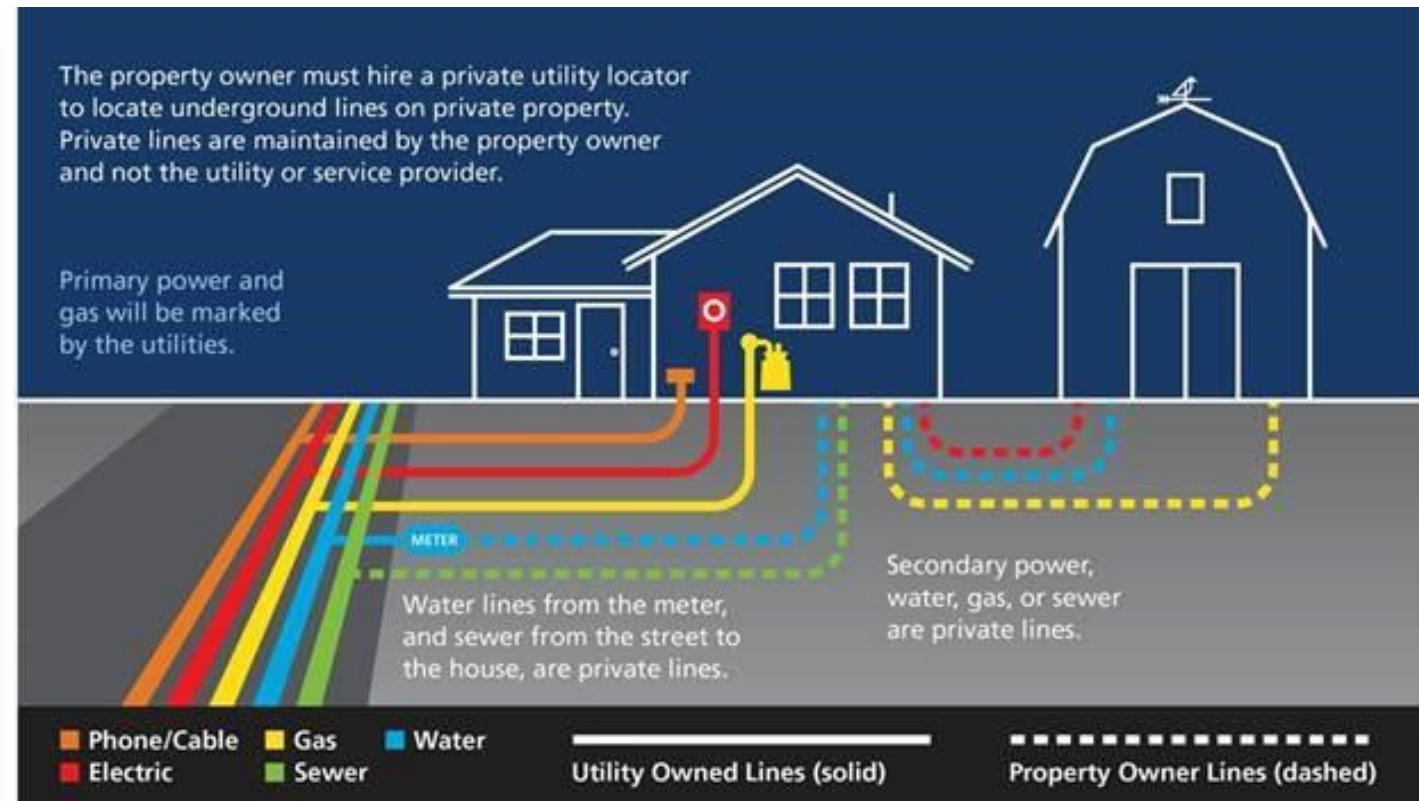
Public VS Private

Public Utility Locates for construction

- Requested through Ontario 1 Call.
- Completed by Locate Service Provider or Utility Owner.
- Marked with flags and paint in the field up to the meter / within the municipal right of way only
- Uniform Color code (ANSI Z535.1).
- Valid for a minimum 60 days.
- Marking demarcation point for public to private ownership

Private Utility Locates for construction

- Beyond the Meter, curbstop (watervalue) or municipal right of way.
- Completed by private locate services provider.
- Marked with Flags and paint in the field, beyond the meter.
- Uniform Color code (ANSI Z535.1)
- **Cannot** mark public utilities without approval from utility owner.



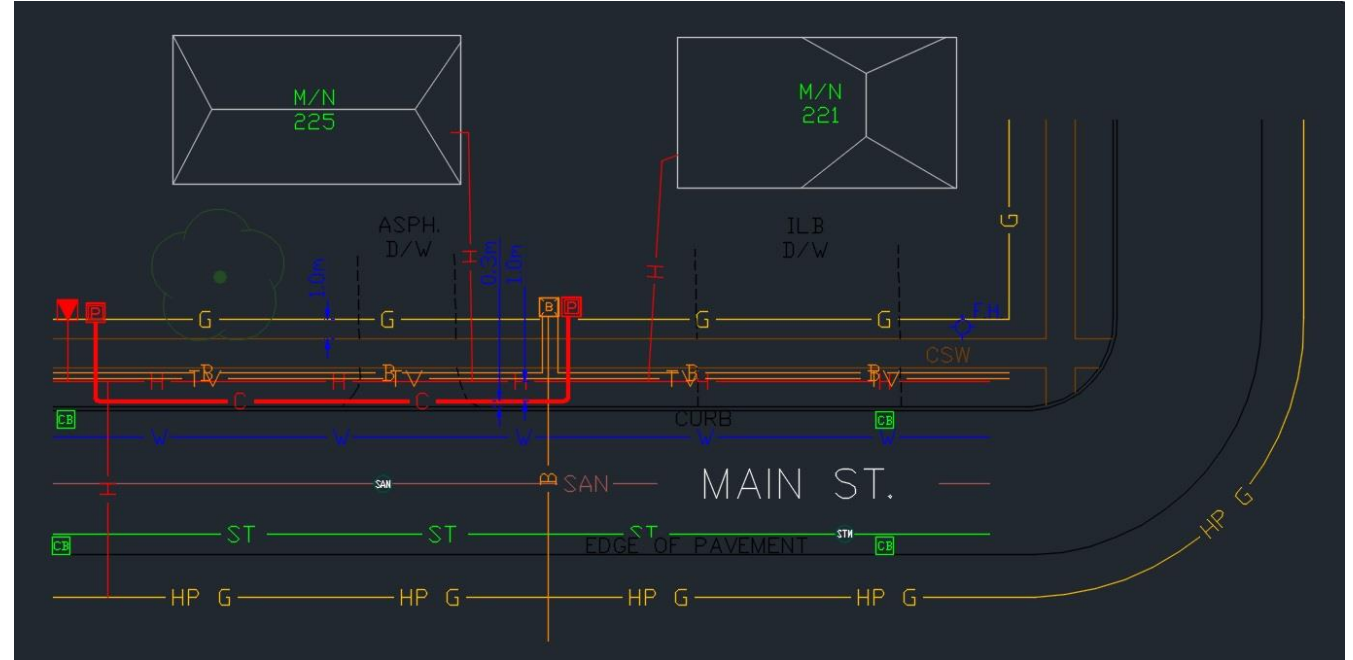
White	Proposed Excavation
Pink	Temporary Survey Markings
Red	Electric Power Lines, Cables, Conduit, and Lighting Cables
Yellow	Gas, Oil, Steam, Petroleum, or Gaseous Materials
Orange	Communication, Alarm or Signal Lines, Cables, or Conduit
Blue	Potable Water
Purple	Reclaimed Water, Irrigation, and Slurry Lines
Green	Sewers and Drain Lines

Engineering Locates

Utilizing the Subsurface Utility Engineering Classification system.

(class A-D)

- Contracted privately to mark and locate public and private utilities within scope of work.
- Marked with pink paint in the field.
- Utilized for design and engineering purposes.
- NOT valid for construction.



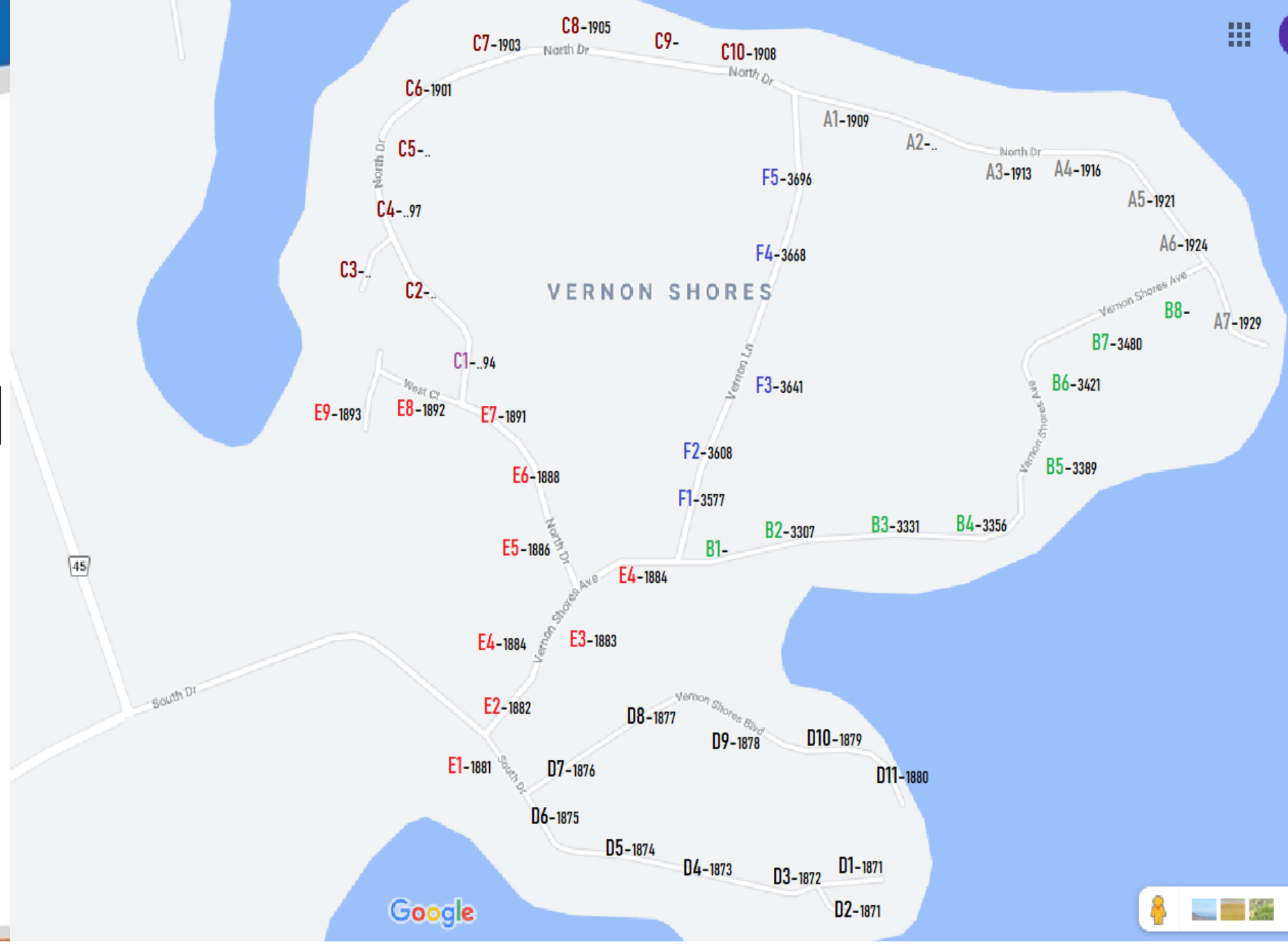
Dedicated Locator

- Single Resource
- Contracted privately on behalf of the project owner to mark and locate public and private utilities within scope of work.
- Geared towards long duration projects & large geographic areas (FTTH Builds)
- Can manage the ON1Call tickets on behalf of the project owner.
- Controlled schedule for improved productivity and increased flexibility.
- Approved by the utility owners to complete locates on their behalf.

Best Practices – Dedicated Locator

- Having approved Municipal Consent and construction plans ready to go prior to construction.
- Reviewing schedule and daily output, how many meters are you able to complete each day(plowing, directional bore etc.) & number of crews.
- Staking out road crossings, pedestals and vaults, this narrows the scope of work for the locator.
- Develop planning map with ON1CALL numbers
- 500m segments
- Resources such as Underground Infrastructure Damage Prevention Best Practices – V 4.0 Mar 2022
- PLAC Training with Ontario One Call

TICKET POSITION MAP



Lessons Learned

- Working through the sub contractor model has some delays and potential communication challenges.
- Ticket management software drawing tools need a lot of work to be efficient
- Duplicate Tickets for multiple contractors on the same ticket (ticket sharing is now approved)
- New Utility installations after locates are completed. Processes vary per each utility, Enbridge has good practice of placing flags that indicate the new main or service has been installed.
- Defining work boundary for large projects leads to services and mains “out of scope”
- ~60km was complete within 5 weeks, 0 damages.

Any Questions?