

# OWN YOUR SAFETY



**KNOW** Before You Dig!

# Why Do We Get Locates Before Digging?

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**PROTECTION** of Underground Assets

It's the **LAW!**

#1 Reason - **SAFETY!**

# We Learned Many Lessons in 2003

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- We have since developed - Complex Regulations, Standards, Best Practices and Guidelines to prevent this from happening again in Ontario
- However, it is up to the Employer to decipher and train workers how to navigate the complex system

# Similar Incident to the Bloor Street Incident of 2003

**OWN YOUR  
SAFETY**

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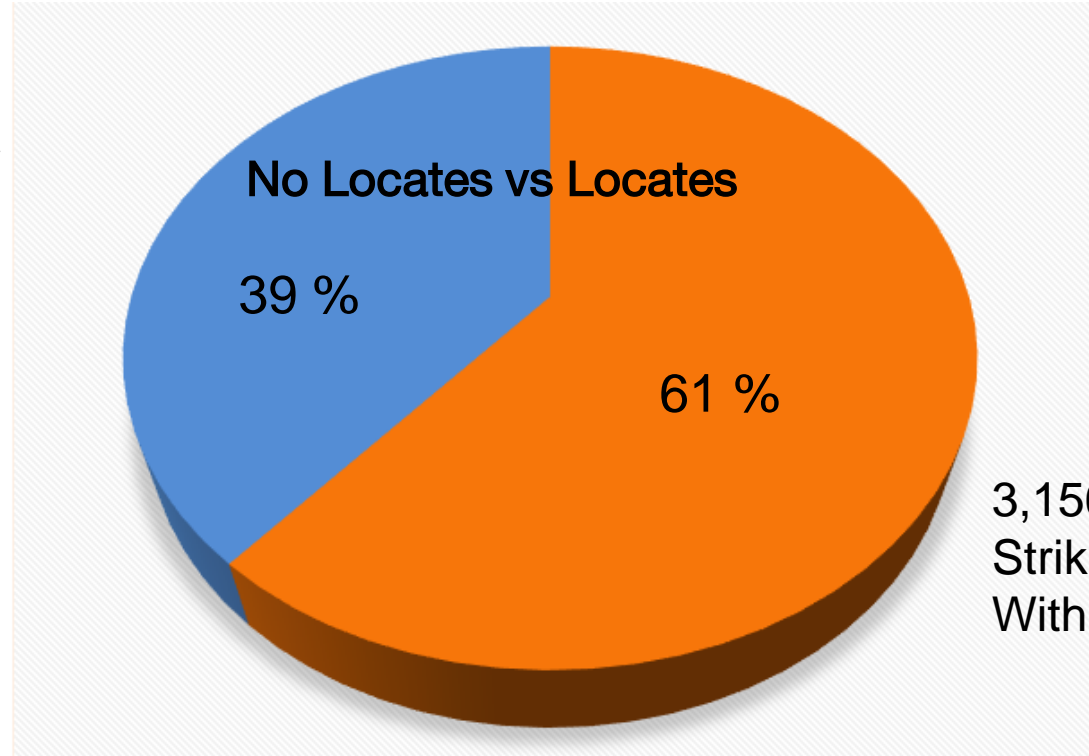


# Why is UIA Training Needed?



*5149 Total Damages in 2017- 2017 DIRT Report*

1,993 Facility  
Strikes –  
No Locates



3,156 Facility  
Strikes –  
With Locates

***\$650 Million in Damages in Ontario – 80% Societal / 20% Repair Costs***

# Mandatory Training is Needed

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- WHMIS, Basic Occupational Health and Safety Awareness, Working at Heights etc.
- **WHY NOT FOR EXCAVATORS MANAGING LOCATES?**

To Become Competent, Workers Need Training in:



- Risks of Working Near Buried Utility Infrastructure
- Legislation, Standards, Guidelines & Best Practices
- Consequences of Damaging Buried Facilities
- Identifying Above Ground Utility Structures
- Public Utility Locates
- Private Utility Locates
- Locating and Marking



# Excavation Compliance for Locates



## Public Locates

- OUINS Act 2012 – Ontario One Call
- Technical Standards and Safety Act - O. Reg 210 – Oil & Gas Pipeline Systems – TSSA (now includes CSA Z247-15)
- CSA Z247-15 - Damage Prevention for the Protection of Underground Infrastructure
- Electricity Act – O. Reg 22/04 – Electrical Distribution Safety
- National Energy Board Act – NEB Pipeline Damage Prevention Regulation

## Public and Private Locates

- Health and Safety Act - O. Reg 213 – Construction Projects – MOL



# Consequences for Non-Compliance

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The consequences of striking buried facilities can have devastating direct and indirect consequences:

**ADMINISTRATION FEES**

**FINES**

**JAIL TIME**

# Public & Private Locates

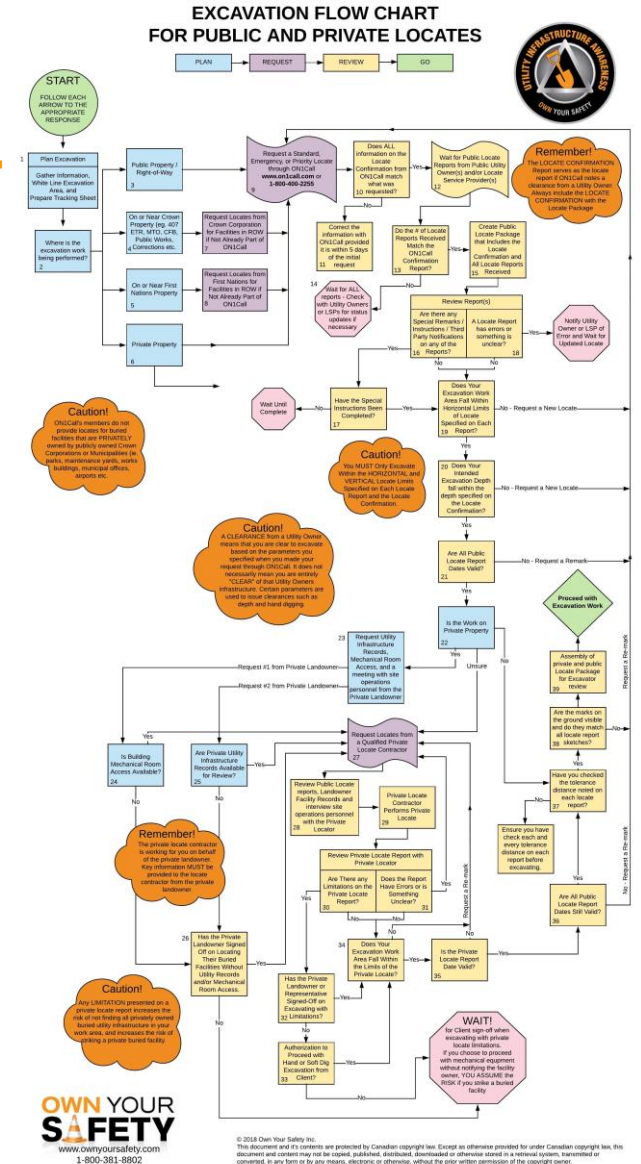
The Process Includes more than just Calling or Clicking Before You Dig:

PLAN

REQUEST

REVIEW

EXCAVATE



# Public Locates

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OUIINS Act requires any utility owner with buried utility infrastructure crossing public right of way (ROW) must register with Ontario One Call which include:

- Utility Companies
- Municipalities
- Any Owner of a buried facility that crosses a ROW

Locates requested from Ontario One Call from these utility owners are typically called **PUBLIC LOCATES**

# Public vs Private Locates

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- Public Locates are for Utility owned buried facilities on public or private property
- Private Locates are for Private Property Owned buried facilities on private property.
- Public Utility Ownership stops at the Demarcation Point

# Demarcation Points



## Gas

- Usually the gas meter and sometimes beyond if they own it

## Telecom (Telephone / Cable TV)

- Demarcation Box or Building Point of Entry

## Water

- Water Valve at the property line

## Sanitary & Storm Sewer

- Property Line

## Hydro

- Demarcation point varies greatly...
- Hydro utility owners have allowed developers to install the hydro services to any point on their property
- Hydro utility owners will only provide a locate for what they own.
  
- Hydro Pole, Transformer, Buried Hydro Vault, Building Point of Entry

# Private Locates

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**BURIED FACILITIES** that exist on private property after the demarcation point.

**OWNED AND MAINTAINED** by the Property Owner

Required by **LAW** to locate before excavation – MOL

# Who Marks Private Facilities?

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## PRIVATE LOCATE CONTRACTOR

- Works on behalf of private land owner
- Do not have a Trade Association
- Have their individual Best Practice and/or Standards
- Usually hired by the excavator working on private property

# Private Locate Contractor Rules

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## MAKE THEIR OWN RULES FOR:

- Locate Technician Training
- Insurance Coverage
- Service Offerings
- Acceptance of Liability



# Private Locate Requirements

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## PRIVATE LOCATOR REQUIREMENTS FROM THE LAND OWNER OR EXCAVATOR:

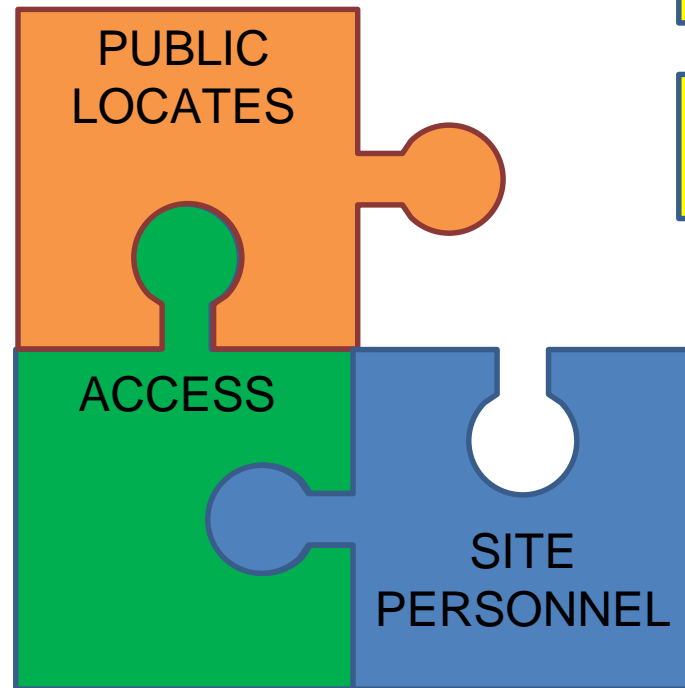
- Access to Building Mechanical Rooms
- Property Owner Records – Drawings, Survey, etc.
- Completed Public Locates
- Knowledgeable Site Operations Personnel

# The Hidden Dangers of Private Locates

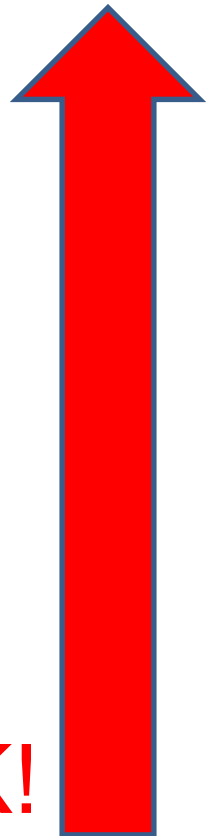


AVOIDABLE LIMITATIONS

REMOVE A  
PUZZLE  
PIECE &



YOU  
INCREASE  
YOUR RISK!



# How to Mitigate the Hidden Dangers

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1. Educate Your Workforce
2. Qualify Your Private Locate Contractor
3. Plan with the Property Owner before Hiring a Private Locator
4. Review in Detail the Private Locate Report vs. Site Conditions
5. Respect the Marks on the Ground and any Limitation noted on the report.

# UIA Certification Program



- UIA Wallet Card and Hard-Hat Sticker – Valid for 1 Year
- Gold Seal Certified by the Canadian Construction Association
- Use for the following Continuing Education Programs:



CANADIAN CONSTRUCTION  
ASSOCIATION  
CANADIENNE DE LA CONSTRUCTION

1 Credit



Association of Ontario Land Surveyors

4 CBD Hours

This certifies that the holder has completed  
Utility Infrastructure Awareness Training

[NAME]

Registration #:

Issued:

Expiry Date:



**OWN YOUR SAFETY**

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# Grass Roots Program

OWN YOUR  
**S**AFETY

- UIA online offered to College and University students in programs with an excavation component: Civil & Geotechnical Engineering and Technology, Drilling, Heavy Equipment, Surveying, Landscaping, etc.)
- Offered to students in their final year at no cost
- Students start their career with a good understanding of how to work safe when excavating around buried facilities



 MOHAWK  
COLLEGE

 HUMBER

  
CONESTOGA  
Connect Life and Learning

  
Fleming College

**CENTENNIAL**  
COLLEGE



UNIVERSITY OF  
TORONTO

**Seneca**

**THANK YOU!**

**QUESTIONS or COMMENTS?**

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