



TRIDENT SOLUTIONS®

Protecting What Powers Our Everyday Lives.

Designing A Complete Damage Prevention System

Spencer Knott

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Data Driven Utility Marking Decisions

According to 2024 DIRT Report

- Damages appear to be on the rise
- Gas and telecom utilities remain the most commonly damaged facilities
- 56% of the time, excavators were not legally able to begin work on their planned start date



31%
Locating Practices



28%
No Locate Request



34%
Excavation Practices

The top three root causes of damages to underground infrastructure





A Complete Damage Prevention System

1. Improve locate efficiency and reduce locate error
2. Increase public awareness about the presence of underground utilities
3. Provide a last line of defense against excavator error



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Improving Locate Efficiency



31%
Locating Practices

**Tools that Increase
Accuracy and Efficiency :**

- Tracer Wire
- Test Stations
- Hardware
- Ground
- Connectors



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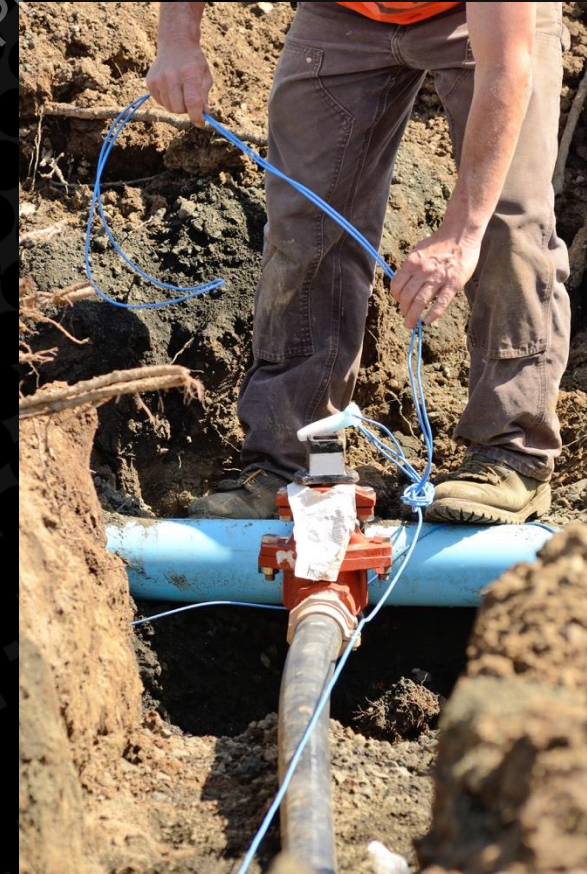


Tracer Wire



31%
Locating Practices

- **Placed directly above utilities when they're installed**
- **Should be corrosion, moisture, chemical, impact, and abrasion resistant**
- **More states pushing to legally require it**



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Tracer Wire



31%
Locating Practices

- **Copper-clad steel (CCS) tracer wire is designed to embody the flexibility, memory, and feel of regular copper wire**
- **CCS is stronger than copper and costs less**
- **Used in open-trench, plow-in, or horizontal directional drilling applications**



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Test Stations



31%
Locating Practices

- **Protect terminal board from severe weather & vandalism**
- **Provide easy access to wire & visible warning message**
- **Aesthetic improvement**
- **Multiple options**



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Hardware



31%
Locating Practices

- Simplifies the locating set up, saving time and labor
- Multiple hardware options for different types of access points
- Provides direct connection for locate technicians



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Ground



31%
Locating Practices

- **Installed at both ends, provides complete circuit**
- **Grounding allows locator to use lower frequency**
- **Sacrificial anode to protect the system from corrosion**
- **Easy installation**



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Connectors



31%
Locating Practices

- **Must be corrosion and water resistant**
- **Different scenarios require different connectors**
- **Innovative designs engineered to optimize signal flow**



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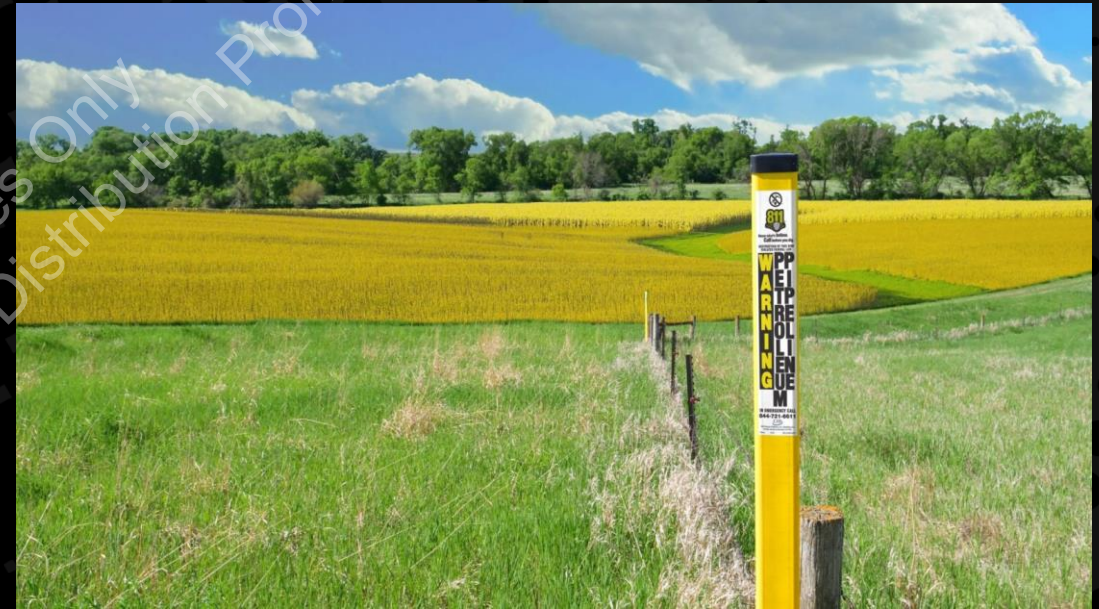
Increasing Public Awareness



28%
No Locate Request

Nationwide survey of excavators who did not request a locate

- **30%** Believed that project was in area that didn't need marking
- **29%** Believed they already knew location of utilities
- **23%** Assumed they weren't digging deep enough



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Above-ground Marker Posts



28%
No Locate Request

- Enhanced durability
- Available as test stations
- Impact resistant
- Come with a 10-year warranty



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Surface Markers



28%
No Locate Request

- Durable markers that be attached to almost any surface
- Can be printed on reflective or non-reflective substrates
- Impact and abrasion resistant



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Preventing Excavator Error



34%
Excavation Practices

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Buried Warning Tape

- **Underground warning tape buried directly above the facility**
- **Last line of defense if excavator fails to maintain clearance**
- **Detectable and non-detectable options available**



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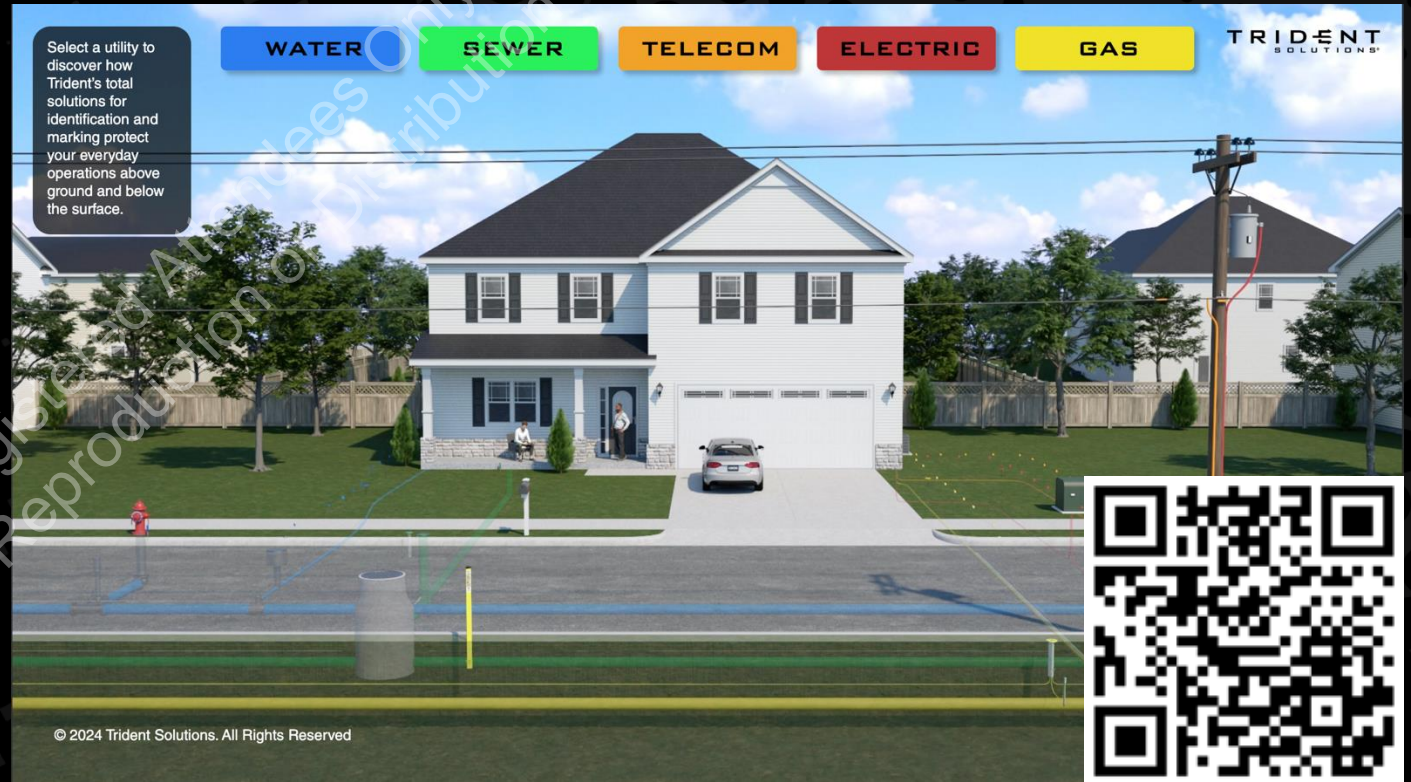




Complete Damage Prevention System

Interactive environment
with detailed product
information on Trident
products

- Water
- Sewer
- Telecom
- Electric
- Gas



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Questions?

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