



The location of the existing oil pipeline was not accurately depicted on the issued for construction drawing which was based on a 1957 as-built drawing.

Struck 50 years later, this pipeline had likely been located at least a dozen times between the original installation and when it was struck in 2007. In all that time, no one had reported the map discrepancy. Proper use of SUMDEX will ensure that discrepancies discovered can be reported to the utility owner.



When we need to know – “What’s below?” we can rely on the Subsurface Utility Map Data Exchange system to provide Utility owners with the ability to share the information needed to improve safety and efficiency on the jobsite.

The SUMDEX system will be powered by MN811’s “FuzionView” open source software currently in development and that will be made available at no cost.

When fully developed, the software system will provide even more value to the owners by allowing field workers to submit field-verified data to allow owners to improve the quality, accuracy, and reliability, of their records.

SUMDEX will save time, save money, and most importantly, save lives.

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SUBSURFACE UTILITY MAP DATA EXCHANGE



WHEN YOU NEED TO KNOW – WHAT’S BELOW?

The Subsurface Utility Map Data Exchange (SUMDEX) project is an initiative to allow the seamless bi-directional sharing of map information between utility owners, designers, and field personnel with the view of constantly improving the accuracy of map records.

THE PROBLEM:

Accurate information to show buried utility locations is not readily available or easily shared with Designers, Subsurface Utility Engineering (SUE) firms performing pre-engineering or Locate Service Providers (LSPs) performing pre-construction site investigation work. In the 2021 Next Practices Report, the Common Ground Alliances stated:

“For more than half a decade, the rate of damage to underground infrastructure in the U.S. has increased or remained stagnant. The hundreds of thousands of individual damages that occur across the country each year cost communities approximately \$30 billion annually...”



FuzionView ticketed area map visualization

THE APPROACH:

With input from One Call Centers, municipalities, utility owners, and other stakeholders, the SUMDEX solution employs the existing “Click before You Dig” ticketing process. This allows the existing Facility Notification (aka One Call) Centers to enhance their service offering by adding functionality to deliver value for all stakeholders. Use of SUMDEX will allow stakeholders to:

- Streamline information exchange
- Reduce line strike incidence
- Access a conflated map view
- Add substantial value to SUE work and utility locates
- License and use the software for free
- Support the exchange of all major GIS and CAD file formats
- Reduce costs and delays associated with damage events
- Improve safety and performance

THE SOLUTION:

FuzionView will underpin the data exchange system that will allow utility owners to seamlessly and securely share map data showing utility locations within the bounds of a ticketed area with Designers, Subsurface Utility Engineering firms, Emergency Responders, and Locate Service Providers.

The system will ultimately have the capacity to allow the SUE firms, and LSPs to seamlessly and securely submit field findings back to each utility owner to review, validate, and/or update the accuracy of their records.

In this way, each utility owner can benefit from the data collected in the field that they may not have access to today.

Emergency Responders will be able to improve their onsite situational awareness.

