In response to infrastructure improvements, community resource expansions, and population increases, municipalities are finding it necessary to consider upgrades and/or relocations to their existing utilities. Lack of information can cause a multitude of problems including scheduling delays, budget increases, and safety concerns.

Cardno specializes in providing UES services in urban settings, enabling design engineers to reduce municipal project risk.

Our municipal work includes:

> Municipal land development
> Parks
> Municipal facility construction and expansion (water/sewer treatment, garbage, etc.)

We have worked with more than 1,700 municipal clients throughout the U.S. and Canada, managing utility risks and helping eliminate schedule delays and cost overruns.

For utility design and mapping, utility coordinating, and Subsurface Utility Engineering, Cardno has experience and long established relationships with utility providers, uniquely enabling us to effectively resolve complex issues.

Utility Engineering and Surveying
Our UES group provides Subsurface Utility Engineering (SUE) services that meet and exceed the Civil Engineering industry’s ASCE Standards. This enables design engineers to manage risk for new underground utility designs and operations maintenance.

UES Service areas include:

> Utility Engineering Design
> Utility Coordination
> Utility Conflict Analyses and Resolutions
> Designating Utilities
> Underground Utilities
> Subsurface Utility 2D/3D mapping
> Survey & Mapping
> Utility Engineering Reports/Risk Management Reports

Reducing risk and delay claims
Our job is to help reduce uncertainties and keep your project moving forward. With decades of experience serving hundreds of clients, top notch equipment and processes, you can be confident that your project will be handled with the attention it deserves. Our SUE expertise regularly leads to identification and documentation of previously unrecorded subsurface utilities, reducing the risk of potential project impacts.
Safety Managing Risk & Uncertainty

With decades of experience, top-notch equipment, and firmly entrenched safety processes, you can be confident that we will mitigate impacts and reduce risk over the life of your project, providing a full range of services that minimize the opportunity for costly delays and unplanned expenses. Safety is a core value for Cardno. We are committed to continually improving our safety processes and to providing for the safety of the project site, staff, and the public.

Comprehensive services

Cardno provides broad-based, comprehensive, high-quality services to minimize impacts to utilities and save time and money. Working in conjunction with project design personnel, we accurately locate existing utilities and identify areas of potential conflict well in advance of final design.

Staff and training

Cardno’s ongoing focus on staff training and advancement keep us at the forefront of the industry. Our UES field and office teams are highly-trained and specialized professionals qualified to meet a broad range of client needs. All staff are required to meet rigid safety and industry training requirements as well as complete training that Cardno has developed to provide our teams with additional skills and technical knowledge.

Leading with technology

A wide range of equipment is necessary to detect the variety of subsurface utilities that may be present. We use the most appropriate technology for the project to increase the accuracy of the data, including:

- Stream EM / C, a multi-channel ground penetrating radar solution dedicated to utility locating and mapping.
- LiDAR, or Light Detection and Ranging, to generate precise, three-dimensional information about the shape of the Earth and its surface characteristics.
- Geographic Information System (GIS), captures, manages, analyzes, and displays all forms of geographically referenced information, allowing one to analyze spatial information, edit data in maps, and create interactive queries.

Projects

From California to New York, we have worked on over 1,700 municipal projects, consisting of transportation, roadway, utility engineering and surveying. Our vast resources, operational flexibility, and geographic presence allows us to provide clients with the exact level of service they need, customizing solutions that deliver.

Leading the Utility Engineering & Surveying (UES) industry

We are proud to be a founding and sustaining member of the American Society of Civil Engineers’ (ASCE) Utility Engineering and Surveying Institute (UESI), whose mission is to advance the UES practice. Our experts lead the profession through speaking at industry conferences; developing standards and manuals of practice. We lead the industry by example. We develop professional practices that set the bar regarding the expectations for any SUE or survey investigation.