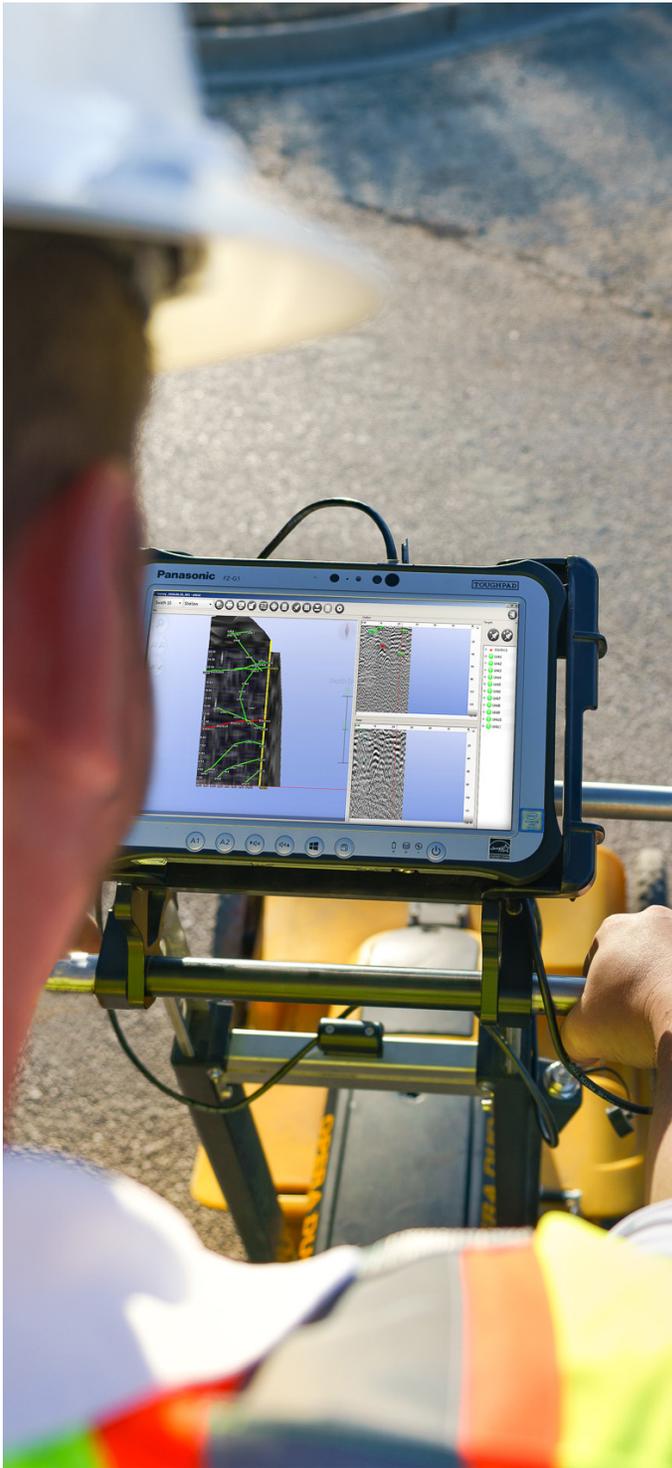




SUBSURFACE UTILITY ENGINEERING (SUE) //

SAM's subsurface utility engineering services provide our clients with state-of-the-art utility designating services designed to establish as-built site conditions, greatly enhancing program safety and minimizing expensive delays and change orders.

sam.biz



SAM uses state-of-the-art geophysical sensing equipment to identify, designate, locate, and map existing and abandoned utility infrastructure. We recognize every site is different, so we bring a suite of equipment to your site, including magnetic, sonic, and acoustic technologies; ground penetrating radar; and radio frequency detection.

Experience at every level of service

SAM's expertise dates back to the origins of SUE in the early 1980s. Since then, our engineers, geomatics experts, and technicians have developed sophisticated solutions to meet the four SUE quality levels.

- *Quality Level D*: Record Research/Data Collection. Information is derived from records research or oral history. Quality Level D can provide a "feel" for the overall congestion of utilities, rather than a comprehensiveness solution.
- *Quality Level C*: Visible Surface Feature Utility Survey. Utility surface feature data is obtained from geomatics and plotting aboveground utility features. Level C data supplements Level D data and identifies omissions and errors in record information.
- *Quality Level B*: Utility Designation. Our suite of surface geophysical sensing technologies is utilized to locate and mark underground utilities, then tie their location to project monuments. Field data is then mapped onto plan documents.
- *Quality Level A*: Underground Utility Locating (Test Hole). Utilities are safely exposed, measured, and mapped using nondestructive vacuum excavation equipment to establish precise horizontal and vertical location data.

Our SUE services are typically performed in accordance with ASCE CI-38-02, but can be modified to meet your needs.

Key Services:

- Record Research / Data Collection
- Visible Surface Feature Survey
- Utility Locating and Marking
- Non-Destructive Vacuum Excavation
- CAD Plan Preparation
- Utility Design/Specification
- Utility Relocation Plans
- Conflict Identification
- Site Management

What differentiates SAM?

SAM has built a reputation as a trusted, knowledgeable, and innovative partner. SAM transforms petabytes of complex spatial data into intelligent insights in a holistic Managed Geospatial Services™ (MGS™) framework. As North America's premiere MGS™ company, SAM provides practical, precise, and high-fidelity solutions designed to enhance decision-making, mitigate risks, achieve strategic objectives, and drive costs out of our client's business. Our vision is to advance spatial data acquisition, improve analysis capabilities, and develop predictive analytics to redefine and transform how infrastructure assets are developed and managed throughout their lifecycles.

REACH OUT TODAY

Want to experience the SAM difference for yourself?

Learn how we can put our resources to work for your next program. Call us toll free at **(800) 656-9525** or visit us at **sam.biz**