## Construction

GPS / GIS

### Summary

Here, we highlight how MDA Engineers can incorporate the use of GPS and GIS during the Construction Phase to collect as built information and to keep the Owner informed of the Construction progress.

MDA ENGINEERS
Since 1982

# Bringing GPS to Construction Observation

MDA Consulting Engineers uses global navigation satellite system (GNSS) mapping techniques extensively during construction phases of our projects, both as a project management tool and as a way to facilitate generation of record drawings and databases.

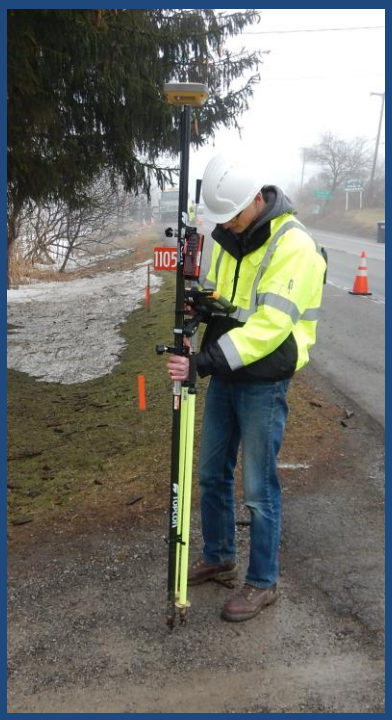

*An example of GIS data collected during Construction.*

Our mapping technicians regularly visit the job site to collect location data using survey grade equipment linked to GPS and GLONASS satellites, allowing them to place features and equipment precisely on a map in real-time. Within hours of collection, we load the data into a digital drawing and publish it as a PDF map showing construction progress. Additionally, the data can be published to a live geographic information system (GIS) database, allowing real-time interaction with owners, project managers, and field personnel during construction.

MDA Consulting Engineers, PLLC
Since 1982

## Contact Us

Company Name
MDA Consulting Engineers, PLLC
Address
PO Box 604
3 Bristol Lane
Ellicottville, NY 14731
Phone
716-699-4650
Email
office@mdaengineers.com
Website
www.mdaengineers.com




*From the field.....To your Desktop*

In addition to geographic coordinates, our data collection software stores other field data such as size, burial depth, customer house number, or any other predetermined critical asset data, which are then automatically stored as attributes of the geographical point. These metadata facilitate the rapid development of a project-wide GIS database, which we turn over the owner for continued use in operation and maintenance activities after construction is complete.

## Questions and Answers

### Q. How accurate is the information collected?

**A. MDA uses a Network Rover which can typically achieve horizontal accuracies of +/- 0.2ft and vertical accuracies of +/- 0.3ft.**

### Q. How does this benefit me as the Client?

**A. Frequent collection of as-built data helps to improve efficiency of the construction oversight and to allow you as the Client to be more informed. It also allows the data collected in the field to be quickly organized into a database. This improves your access to this data.**

*Have any other questions? Contact us Today!*