Our land surveying department has earned a reputation for providing accurate and reliable survey data. Survey is typically the first step and the cornerstone of the design process for most projects. Our survey department is comprised of licensed land surveyors, instrument personnel and CADD technicians who have extensive field, mapping, and overall industry experience. Topographic mapping, boundary, easement, right-of-way, ALTA and construction surveying services, as well as related drawings and written instruments are just some of the survey functions we perform. Whether the survey is for a highway, bridge, railroad, waterway, utility, commercial, industrial or residential project, we have the latest state-of-the-art equipment and the resources to provide multiple survey crews and meet workload demands within or ahead of schedule.
Topographic & Boundary Survey

Topographic and boundary surveys are the most common surveys performed at AI. Topographic surveys define surface elevations using contours within the survey area and use vertical and horizontal controls. They include the location of land improvements such as roadways, sidewalks, buildings, and utilities. Boundary surveys define property lines and ownership limits for a given parcel, right-of-way, or other tract of land. AI provides boundary surveying services for study, design, construction projects, real estate transactions, and other needs. When it comes to mapping, our surveyors, and CADD technicians are proficient in the latest mapping software for processing data, mapping located features and 3D surfaces, and creating final topographic maps and boundary survey documents with precision and accuracy.

Real Time Kinematic GPS Surveys

AI strives to stay current with the latest technologies for survey data establishment and collection. Our state-of-the-art survey equipment includes Real Time Kinematic (RTK) GPS technology. Our RTK GPS units are networked with state and proprietary GPS networks, providing the capability of establishing project control without having to carry physical control points long distances to project sites. The RTK GPS units also allow for rapid data collection using fewer resources, thus streamlining our survey efforts.

Asset Management / GIS Services

Given the ever-growing demand to do more with less, AI recognizes the challenges our clients face in regards to tracking and maintaining infrastructure and other assets. Geographic Information System (GIS) based asset management systems are becoming increasingly popular for their ability to effectively track and manipulate data. Using RTK GPS, specialized cell phone applications, traditional survey equipment, and other data collection methods, AI develops comprehensive databases for our clients enabling them to query information based on asset condition, type, age, etc., to indentify and plan for future maintenance, repair, and replacement programs.

Land & Utility Records Research

At AI, we understand that a high-quality land survey is not only comprised of field data collection and mapping, but also requires in-depth knowledge and experience in examining land records, chains of title, related encumbrances on the subject property and other information for identification. Utility research is an important aspect of a survey and AI’s surveyors regularly research the presence of operating and abandoned utilities for location and mapping purposes. This information is vital for developing comprehensive plans, free of conflicts or issues that could potentially delay or have cost implications on a project.

Construction Survey

AI has provided construction surveying services on numerous high-profile site development, highway, bridge, and facility construction projects. Our surveyors provide complete layout services for contractors, as well as accuracy checks on contractor layouts for project owners. During construction, we also provide topographic, section, and location services for quantity verifications used to process contractor payments. AI often performs record surveys necessary for the development of project record drawings after improvements have been completed.

Our Equipment

AI’s survey equipment includes various data collectors, total stations (such as prismless and robotic), auto levels and RTK GPS. We also own field survey vehicles, bucket trucks, large format plotters, and other support equipment. AI provides mapping services in MicroStation and AutoCAD formats, tailoring the presentation and delivery of survey information to the project. In collaboration with our specialty partners, we also have the ability to provide Terrestrial Light Detection and Ranging (LiDAR) survey for comprehensive location of surface features in a 3D model. AI strives to continually improve upon our services, and invest in the equipment and software required to deliver quality deliverables.

Through the use of innovative technology and close attention to detail, we provide our clients with the most accurate maps possible.
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