



# Site Design & Survey

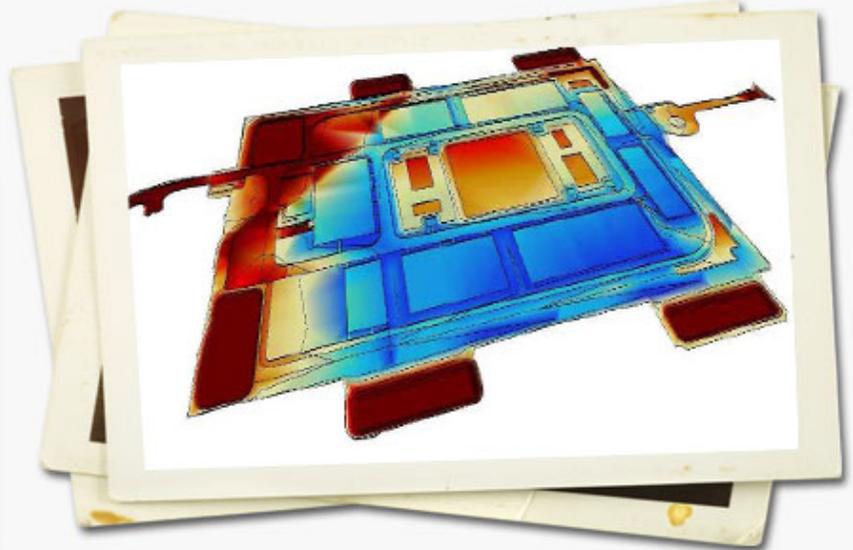
## Design & Survey that Plan for Success

Your engineering plans are more just another preconstruction phase – they're the essential blueprints to your new masterpiece. Our in-house Civil Engineering department specializes in analyzing your project's plans and providing the most precise and competitive bid for your demolition, earthwork, concrete and paving needs.

Determining the accuracy and current state of these plans can mean the difference between paying too much for imported material versus saving you thousands by balancing your site.

As a service to our clients, our in-house survey team uses the latest GPS bay-station technology to provide a topographical survey on every job to catch any potential issues between plans and grade before we start. We also provide extensive 3-D site modeling for further visualization and analysis.

Throughout the project, additional surveys are performed to ensure our work matches specifications for tolerances – resulting in the best final product.



## Applications

### Topographical Survey:

Information from a take-off or 3-D site model is loaded into one of our Global Positioning System (GPS) computers. Our survey team will then visit your property where they will use this computer to tie your project's location coordinates into an existing on-site marker. Using an all-terrain vehicle equipped with a GPS holder, a member of the survey team will drive your site, taking an elevation measurement every five feet in a continuous switchback line that resembles a lawn mower pattern. The elevation readings are then downloaded into our Civil Engineering design program where a new take-off is created and compared to the original for accuracy purposes.

Our ability to call out grades anywhere on the site means that our machines never stop working because we are not dependent on outside sources for the information.

### 3-D Site Modeling:

It all starts with your project's blueprints! Upon receiving computer-aided design (CAD) files or digitized plans of your project, we will upload the necessary information into our Civil Engineering computer program. One of our Technicians will then manipulate the static data into design in order to show the elevation changes on your site. A three-dimensional model of your site showing cut and fill areas is then created from the uploaded information. This model is used by our construction and survey teams to know the exact cuts and fills that are required.

Arizona

California

Nevada

New Mexico

Texas

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