



MUIR CONSULTING, Inc.

Land Surveying ♦ G. P. S. ♦ Planning

CONSTRUCTION STAKING

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Construction Staking

Whether it be an incredible design from an award-winning architect, a comprehensive and detailed set of plans prepared by a civil engineer, or a complex and geometrically challenging structural design, the construction of such cannot be done without the professional skills and abilities of a licensed land surveyor. It is at this stage that the builder or contractor must interpret these plans and build it. The bridge between these finished products is what defines construction staking.

Project Setup

Project managers at Muir Consulting, Inc. first meet with the builder or contractor to determine what is required for proper layout for construction. Direct dialogue between Muir and the architect and/or engineer enables us to acquire both hard copy and digital versions of the plans. Our project surveyors then methodically check the data to verify the design data. Any discrepancies are immediately discussed with the architect and/or engineer.

Staking Diagram

The staking diagram prepared by Muir is a product as valuable as the original plans. Our staff calculates in CAD the proposed locations of the structures and features to be staked, including any offsets, alignments, grades, and/or pipe invert information. From these calculations, the surveyor will set "points" in digital format with which we will stake out these locations while in the field. A copy of this staking diagram is provided to the construction manager to make certain that no assumptions are made.



The Ground Phase

The field crews at Muir Consulting, Inc. utilize state of the art technology to layout the design at the accuracy required. We use robotic total stations, conventional total stations, global positioning systems (GPS), digital levels, and automatic levels to ensure that the points and grades established meet or exceed the industry standards. All stakes show offset, cut and/or fill data, entity information, grades, the design point number and the staked point number. In addition, cut sheets can be provided to the construction manager to match the set stakes.

From driveways to freeways, single-family residential to high-rise structures, drainage basins to dams, Muir Consulting, Inc. has the experience to provide staking for projects of any size or complexity.