

# SOLAR ARRAY MAPPING



## ROOF MAPS FOR THE DESIGN AND LAYOUT OF ROOF MOUNTED SOLAR ARRAYS

In order to begin the design and layout of a commercial roof solar array project, accurate spatial knowledge of the site – the roof – needs to exist. Wallace Group utilizes the latest surveying technology and software to provide highly accurate and useful data. From conventional, to robotic, to GPS, our surveyors use the best land surveying tools for the job at hand.

Using land survey mapping procedures to create an accurate map of the roof on a commercial building helps ensure that the planning, design, and layout of roof mounted solar arrays can be installed with fewer unforeseen construction changes.

Wallace Group will map the roof and the objects on the roof and will compile this information into an AutoCAD base map. This mapping will be provided to the Client and include the information needed to design and layout solar arrays. Such information includes:

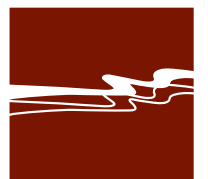
- The location and height of the roof itself, including the location and height of various roof features such as the rib line of roof panels and the roof ridge line
- The location and height of roof parapets, including the corners of the roof and the parapet step locations
- The location and height of skylights and smoke vents
- The location and height of HVAC equipment
- The location and height of roof vents
- The location and height of vertical stand pipes
- The location of fixed in place conduits
- The location and height of the roof access point
- And many other roof features

With this information compiled into an AutoCAD base map the solar designer can base the design on real world measurements, instead of relying on the architectural design plans or an unverified record drawing of the roof.

This information will reduce the risk of running into unforeseen circumstances once into construction, which will result in less construction changes and/or delays and possibly ensure a higher profit margin.

## SERVICES PROVIDED

Surveying



WALLACE GROUP®

Example of map on next page.

