CORINTHIAN DATA CAPTURE, LLC
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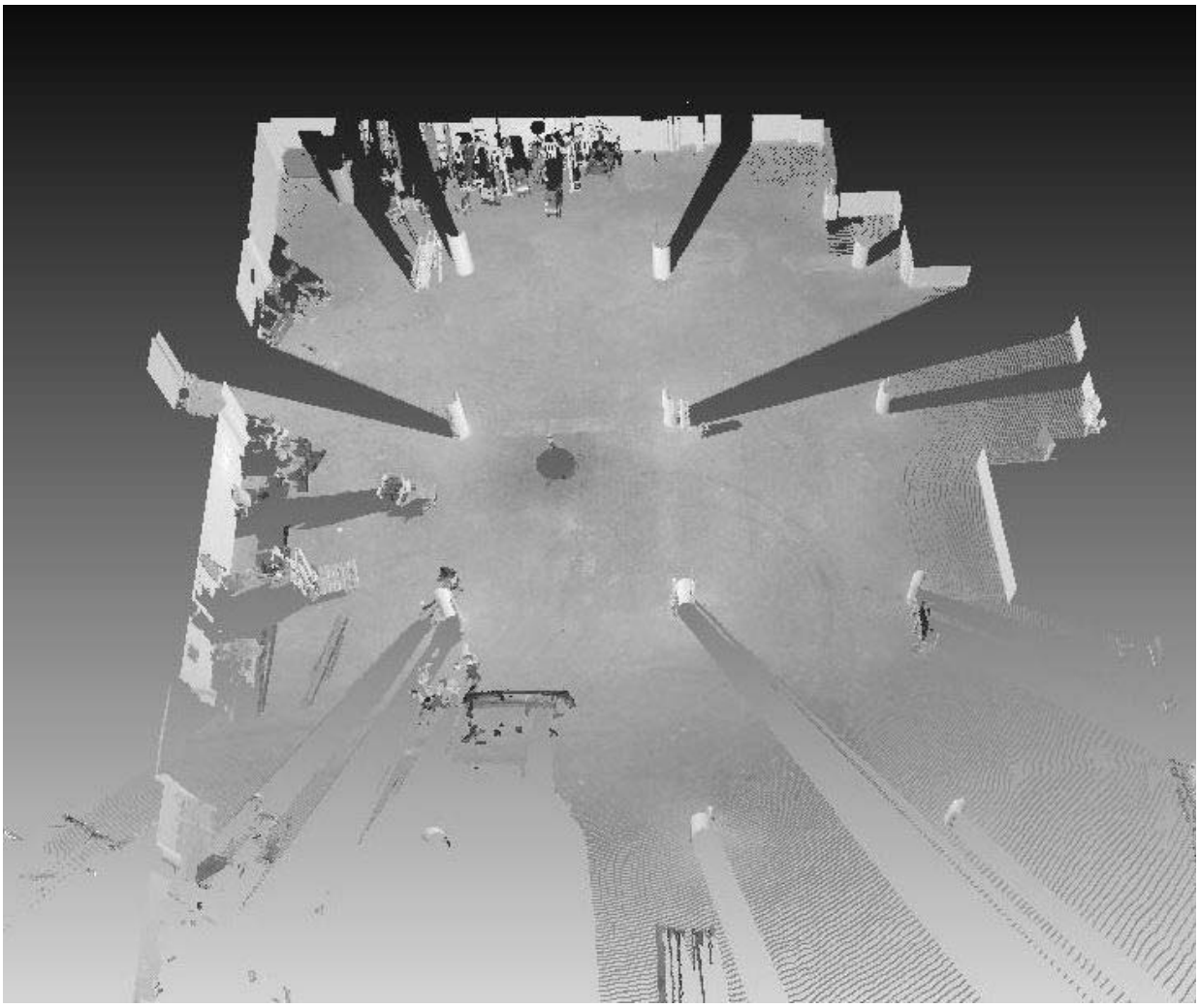
Concrete Floor Mapping

Concrete floors are found in most construction projects. Following the concrete pour it is often necessary to survey the floor to check for flatness or deflection, and check for correct placement of any floor cut-outs or structural plates. In renovation projects, existing floors are often multi-level, and require varying degrees of fill to bring the floor to an even datum level. Laser scanning can be used to record accurate data of the work site, the scan data is then processed to reveal existing variations in floor elevations or create as-built CAD drawings.



This single scan captured a large +/-100’ area quickly. The dark areas are due to columns blocking the scanners beam. Multiple scans at different locations can be taken to gain data on all areas within the space.

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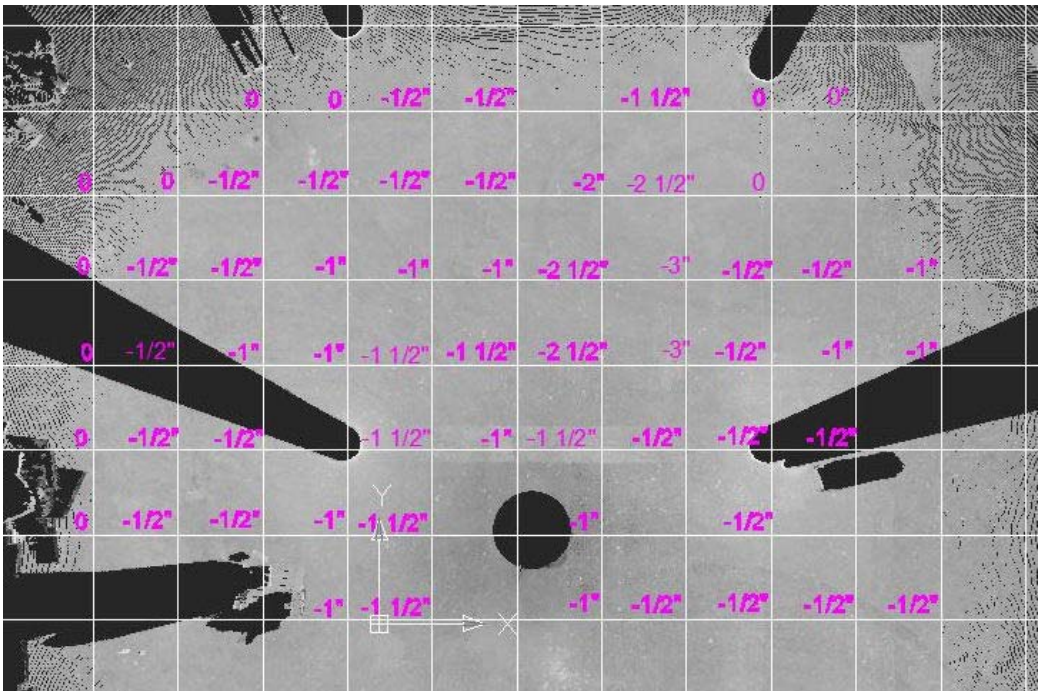
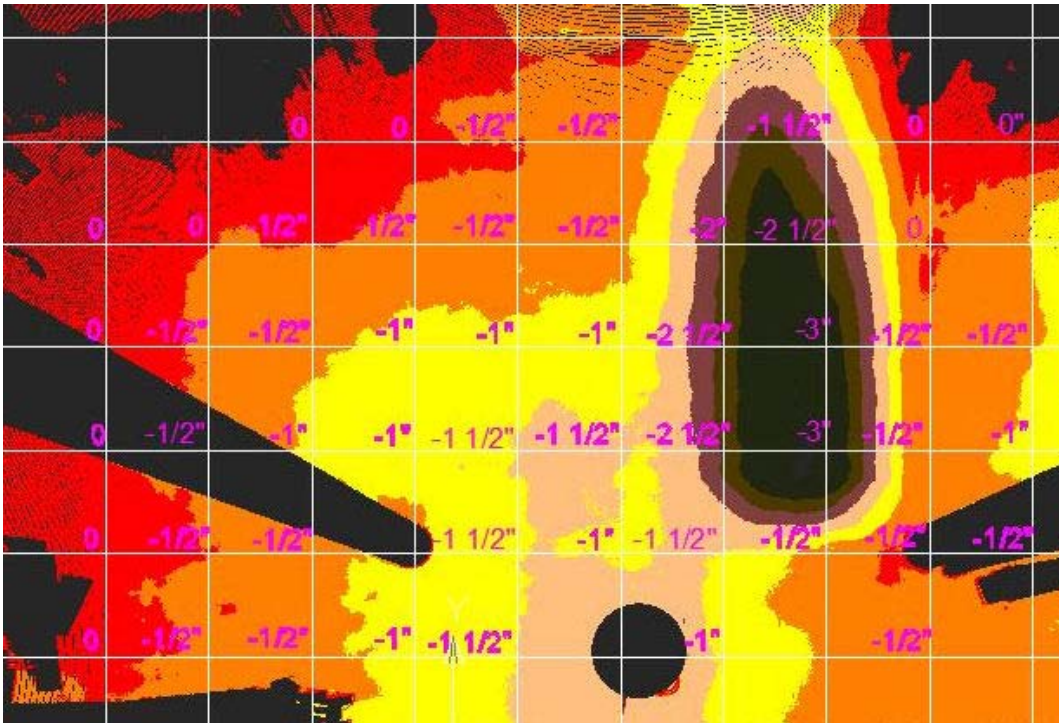


A grid can be overlaid on the floor scan data, indicating elevation variations at selected intervals. This grid, and the elevation datum, is tied into a working point in the field.



A colorized “topo” map of the floor can also be prepared, providing an accurate visual picture of the floors’ high and low spots. A grid can be overlaid onto this image, for ease of data transfer in the field.