/// GPRS LASER SCANNING SERVICES CASE STUDY

CASE STUDY: LASER SCANNING MANUFACTURING FACILITY FOR **CAPITAL IMPROVEMENT PROJECT**

LOCATION

Boston, Massachusetts

TASK:

Laser scan a manufacturing facility that is receiving upgrades to three of its lines, to capture point cloud data and generate a 3D Revit Model.

? PROBLEM

A specialty compound manufacturer was upgrading three manufacturing lines at its plant as part of a larger capital improvement manufacturing lines. plan.

The facility was originally built in the 1980s and has expanded several ScanStation and the Leica times over the years.

Multiple levels in the facility needed scanned at a very high level of detail, capturing structural, architectural, MEP and civil elements, along with a site plan.

SOLUTION

The facility was 3D laser scanned on the weekend to minimize interruption to the

73 scans were performed in one day with the Leica P40 RTC360 laser scanner, acquiring very high detail and accuracy of the plant.

Colorized point cloud, TruView Viewer files, and a Revit model were delivered to the client.

BENEFITS

3D laser scanning and a Revit model will expedite design changes and fabrication of equipment to increase production capacity.

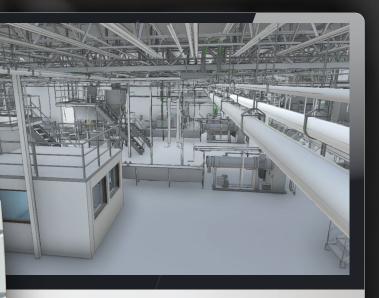
The investment of laser scanning will reduce the project timeline, minimize downtime and change orders -- providing cost savings for the client.

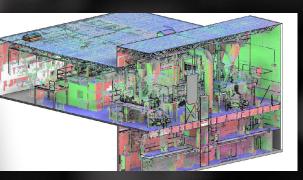
This client is pioneering innovation in its industry -- upgrading the lines with updated extruders will increase capacity for long-term growth while minimizing stoppages, set-up times and scrap material.

The following areas required 3D laser scanning services.

- 1. On the ground production level, GPRS captured extruder areas for lines 1-3 and process equipment.
- 2. On the mezzanine level, GPRS captured mixers for each extrusion line.
- 3. On the second floor, GPRS captured blender areas for lines 1-3, process equipment, air handling equipment, and additional rooms.
- 4. Outside tank farm and silo farm.









A REVIT MODEL WILL EXPEDITE DESIGN CHANGES AND FABRICATION OF EQUIPMENT TO INCREASE PRODUCTION CAPACITY.