

Surveyor: Leading Edge Land Surveying
Project: Wellington Plaza Facility, Florida

Dates: June 2009
Type: Survey – Full 2D Plan View

Project Manager: Jennifer Triana
Project Engineers: Mauricio Terneus, Mike Cook

PROJECT HIGHLIGHTS

- Very high resolution Plan View exceeding project survey requirements
- Field time reduced by 80% over conventional methods
- Project time reduced by approximately 20%
- Lower cost / higher quality deliverable over conventional survey

Project Summary:

Leading Edge Land Surveying applied 3D Imaging Technology to produce a Full 2D Topographic Survey. The project consisted of a Shopping Plaza located in Wellington, Florida. 3D Image data was collected with a Riegl LMS-Z390i LiDAR scanner. A highly detailed Plan View was extracted from the data. This included curbing (front and back), environmental elements (trees, plants, etc), utilities, traffic signs, pavement markings, buildings (outline and overhang) and other features. The application of 3D Imaging Technology brought both the total project time and cost down, and still yielded a superior product compared to traditional surveying methods.

TopoDOT™ in MicroStation™



Deliverable Summary

- Data processed using Certainty 3D's TopoDOT™ application in MicroStation™
- All 3D image data is traceable back to control network survey reference
- TopoDOT™ generated model delivered in MicroStation™ and LandXML™ formats
- Plan View includes all curbing, utilities, environmental features, buildings, road markings and signs, using Florida DOT required formats and cell libraries