



Waldorf-Austoria Building, NY



PROJECT HIGHLIGHTS

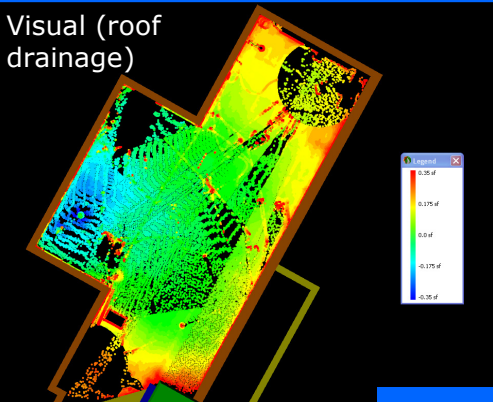
- Data collection was done with a Riegl VZ400 LiDAR scanner
- Processed with TopoDOT™ in MicroStation™
- 'Grid by Elevation' tool places grid points on vertical/horizontal surfaces
- ~ 70 hours of CAD work/analysis

Customer: Bowman, Consulting
Project: Multi-Story Building–Waldorf-Austoria, NYC
Dates: November 2010
Size: ~ 620 ft vertically / 81,000 sq ft at ground
Type: Analysis, Partial CAD Model
Project Mngr: Jennifer Triana and Michael Cook

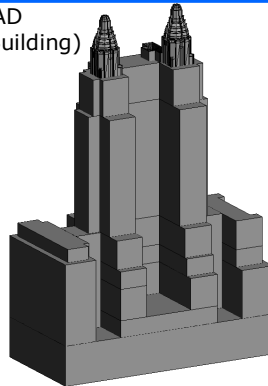
Project Summary:

Certainty 3D applied 3D Imaging Technology to produce partial CAD models of the Waldorf-Austoria building, for Bowman Consulting. 3D Image data was collected efficiently using a Riegl VZ400 LiDAR Scanner (Terrestrial). Data collection was primarily for the lower E 49th ST side and the two upper Terraces of the Waldorf-Austoria building, located in NYC. Data extraction consisted of modeling basic, detailed building features and roof drainage assessment. Also, an analysis can be carried out on vertical features (such as walls) using the grid deviation by plane tool. This helps detect small twists or tilts in wall faces. Project processing time was approximately 70 hours of CAD work and analysis. 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.

Visual (roof drainage)

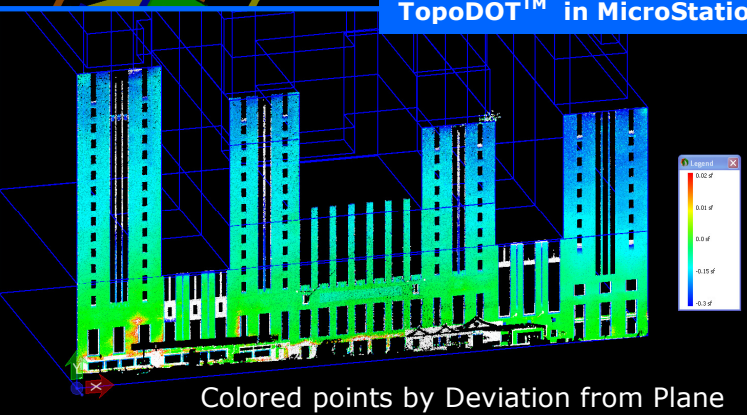
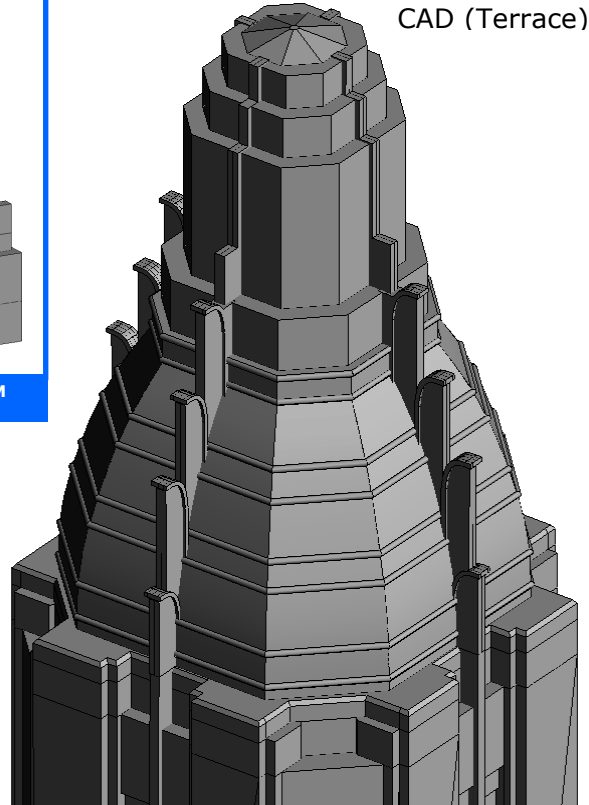


CAD (Building)



TopoDOT™ in MicroStation™

CAD (Terrace)



Colored points by Deviation from Plane

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™ CAD formats