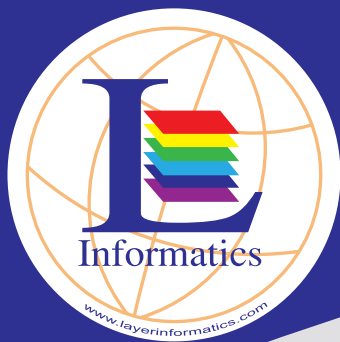




LARGE SCALE MAPPING

A Case Study



CHALLENGES:

- ▶ The project had more than 150 features to be collected at very high accuracy 3cm.
- ▶ The Buildings in the urban areas had a lean & had obscured the surrounding around them which required us check on the multiple stereo images.

INTRODUCTION:

A Complete mapping project with over 150 features including both Planimetric & DTM features.

KEY ASPECTS:

The key objective of this project was to digitize all Planimetric features and capture all DTM features with respect to photo scale of 1:2000. The data compiled would be used for city planning for future development.

The client's requirements from this project were:

- Digitization of all Planimetric features
- Compilation of DTM features
- 1 foot Contour Mapping Scale 1:40

▶ Services Rendered

- Compilation of all DTM features like, Breaklines, Streams, River, Drainage Lines, and Spot Heights.
- Digitization of all planimetric features like Fence, Wall, Electric poles, Light Poles, Trees, Manhole, Catch basin, Sign board, Signal board, Agriculture outline, tree outlines, etc.

METHODOLOGY:

▶ Preprocessing

An assessment of the supplied inputs is done to ensure all images/aerotriangulation results are available to initiate the project. A project is Setup with the supplied exterior orientation parameters and the camera details and is validated against the Gcp's.

▶ Data Capture

Compilation of all DTM features like, Breaklines, Streams, River, Drainage Lines, and Spot Heights for 1ft contour accuracy.

Digitization of all planimetric features like Fence, Wall, Electric poles, Light Poles, Trees, Manhole, Catch basin, Sign board, Signal board, Agriculture outline, tree outlines, etc.

▶ Seamless Data

The data from individual stereo models were merged into a seamless Map.

▶ Contours

The data from individual stereo models were merged into a seamless Map.

▶ QC/QA

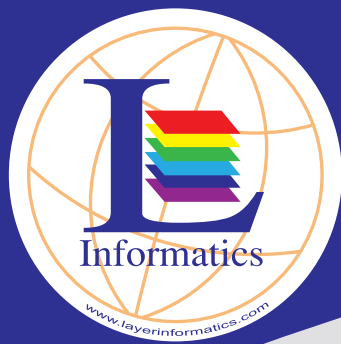
A QC checklist was prepared to assess the Editing quality. A random QA was performed to make sure the data was within the acceptance criteria.

Head Office:

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LARGE SCALE MAPPING

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TESTIMONIALS:

Thanks so much for the timely delivery. The aerial compilation appears to fit well and we appreciate the efforts of you and your staff.

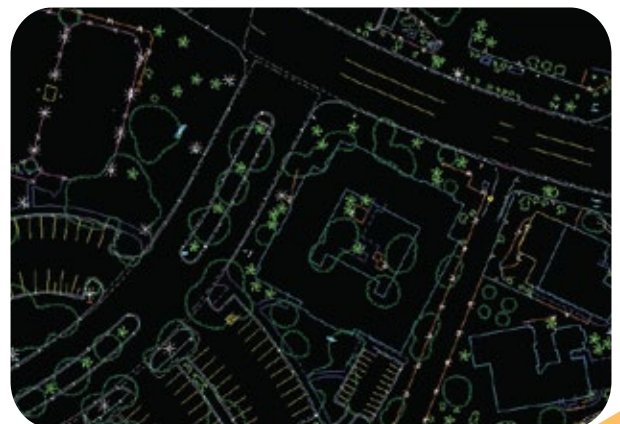
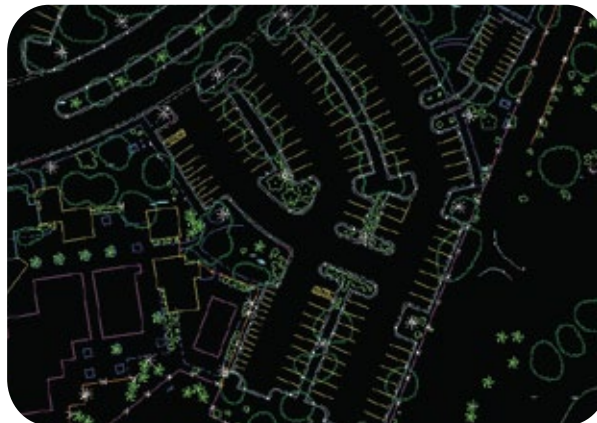
TECHNOLOGY:

- Leica Photogrammetry Suite
- Microstation V8
- AutoCAD Map 2002

APPLICATION:

- Urban and Regional Planning
- Flood Disaster Management
- Land use/land cover
- Metropolitan / city digital map
- Military Planning
- Geological Exploration

SCREEN SHOTS:



UK Office:

Edinburgh EH2 4AT,
Scotland, UK.

US Office:

Scranton, PA 18505

Middle East Office:

Doha, Qatar.



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