



2D PLANS

A Case Study



CHALLENGES:

- The ceiling plan had a complicated doom shaped design and modeling them was very challenging.

INTRODUCTION:

The objective of the project was to Generate 2D Plans using Laser Scanner Point Cloud Data. The 2D model is to be generated for the Documentation and Presentation purpose.

KEY ASPECTS:

- The Building is to Surveyed and Documented.
- 2D Floor /Elevation/Ceiling & Roof Plans.

METHODOLOGY:

- After the Building is scanned, The Registered Point cloud data is given by Client in pts \ e57 \ las\ Imp\ rcs \ rcv format.
- Then the raw point cloud data is Pre-Processed using Registration Software of Cyclone and Autodesk Recap.
- The final Registered Point Cloud Data will be the Input Data for 2D Planning Using the Registered Point Cloud Data the Database is created.
- Then the 2D model is generated from the INPUT DATA using Auto CAD Software.
- **Floor plan:** As per industry standard, point cloud will be slice at 1.2m from the floor level.
- **Elevation:** As per the point cloud detailed facade elevation will be generated.
- **Ceiling Plan:** As per the point cloud we slice the point cloud at ceiling level and will generate a detailed ceiling plan.
- **Roof plan:** we slice the point cloud at roof level and will generate a detailed roof plan.
- **Sections:** As per the client reference section will be generated.

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DELIVERABLES:

- 2D Floor /Elevation/Ceiling/ Section & Roof Plans in dwg format.

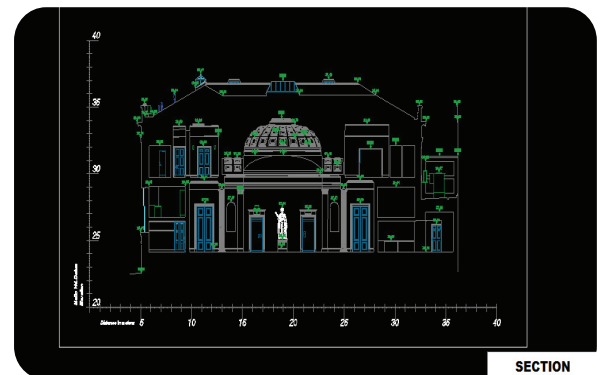
TECHNOLOGY:

- AutoCAD
- Leica Cyclone
- Navisworks

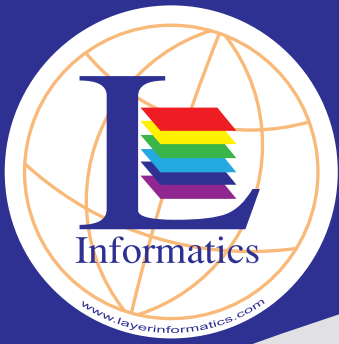
APPLICATION:

- Provides an accurate representation of work that has been put into place.
- Real-time quantity verification for accounting purposes.
- Provides detailed layout information.
- Use for visualization purposes.
- It helps in future 2D design coordination for renovation.

SCREEN SHOTS:

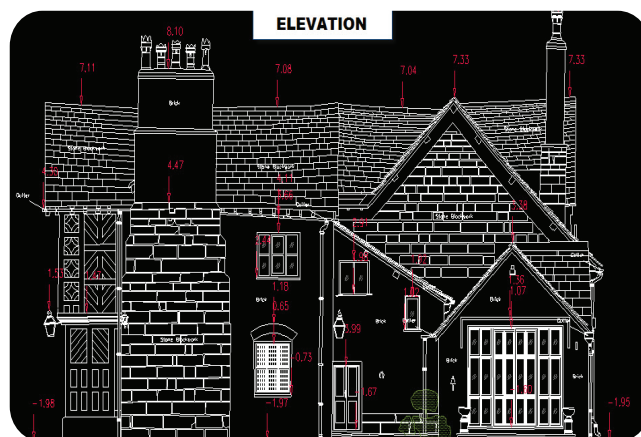
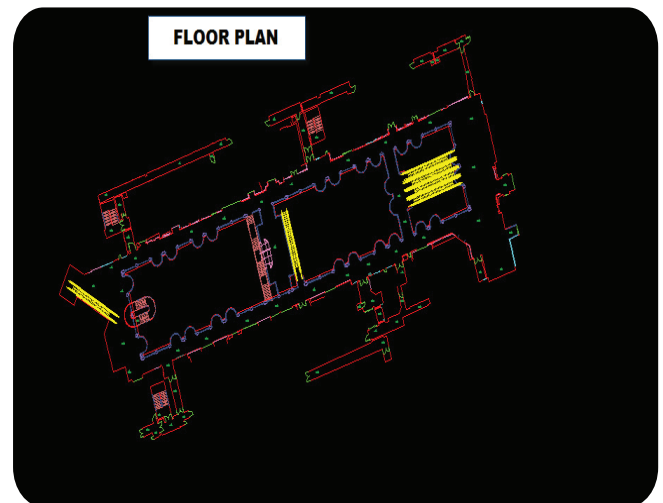
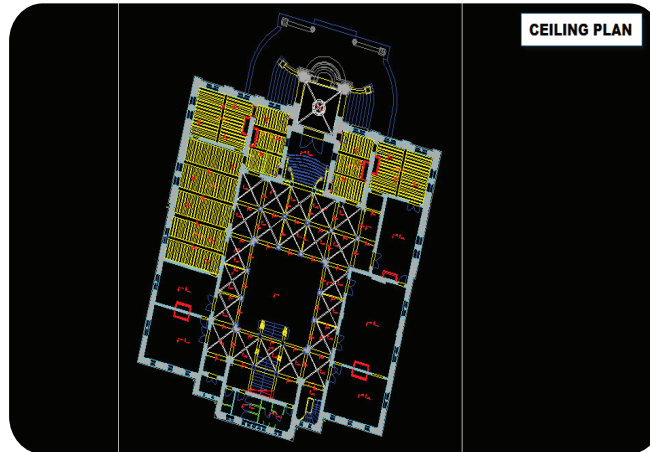


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Vision Through Mapping