



REVIT STRUCTURE

A Case Study



CHALLENGES:

- Arc shaped trusses and structure had very complicated designs and modeling them was very challenging task.

INTRODUCTION:

The objective of the project was to generate a BIM Model of Structural Design and Steel Detailing Using Laser Scanner Point Cloud Data. The BIM model is to be generated for the Documentation and Presentation purpose.

KEY ASPECTS:

- The Building is to Surveyed and Documented.
- The As-built documentation has been done by Implementing Laser Scanning Technology.

METHODOLOGY:

- After the Building is scanned, The Registered Point cloud data is given by Client in pts \ e57 \ las \ Imp \ rcs \ rcp format.
- Then the raw point cloud data is Pre-Processed using Registration software.
- The final Registered Point Cloud Data will be the Input Data for BIM modeling.
- Using the Registered Point Cloud Data the Database is created.
- The BIM model is then generated from the INPUT DATA using Revit Software.
- As per the client requirement, The Level of detailing is divided as LOD100, LOD200, LOD300, LOD400 & LOD500 and the modeling is done MEP features.
- The detailed BIM model will be done by using Revit software as per the point cloud.
- The final BIM model will be delivered after all the errors are rectified in the QC/QA process.

Head Office:

Layer Informatics Pvt.Ltd.
#48/49, Sathyams, 3rd Floor,
9th Cross, Sarakki Main
Road, J.P Nagar, 1st Phase,
Bangalore-560078.



REVIT STRUCTURE

Page 2



TECHNOLOGY:

- › Revit
- › Leica Cyclone
- › Autodesk recap
- › Navisworks

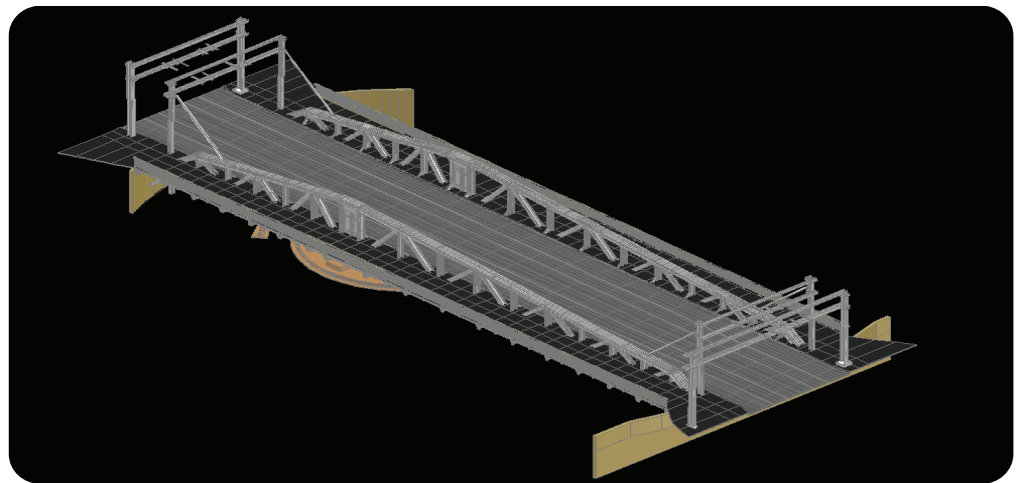
DELIVERABLES:

- › 3D Structure models in .rvt revit format.

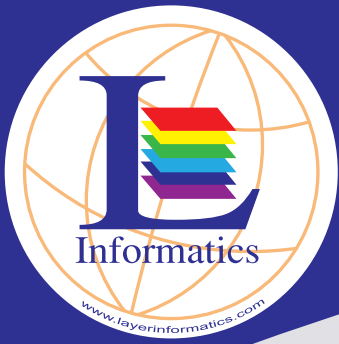
APPLICATION:

- › 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.
- › The ability for embedding future data based upon renovation or equipment replacement.

SCREEN SHOTS:

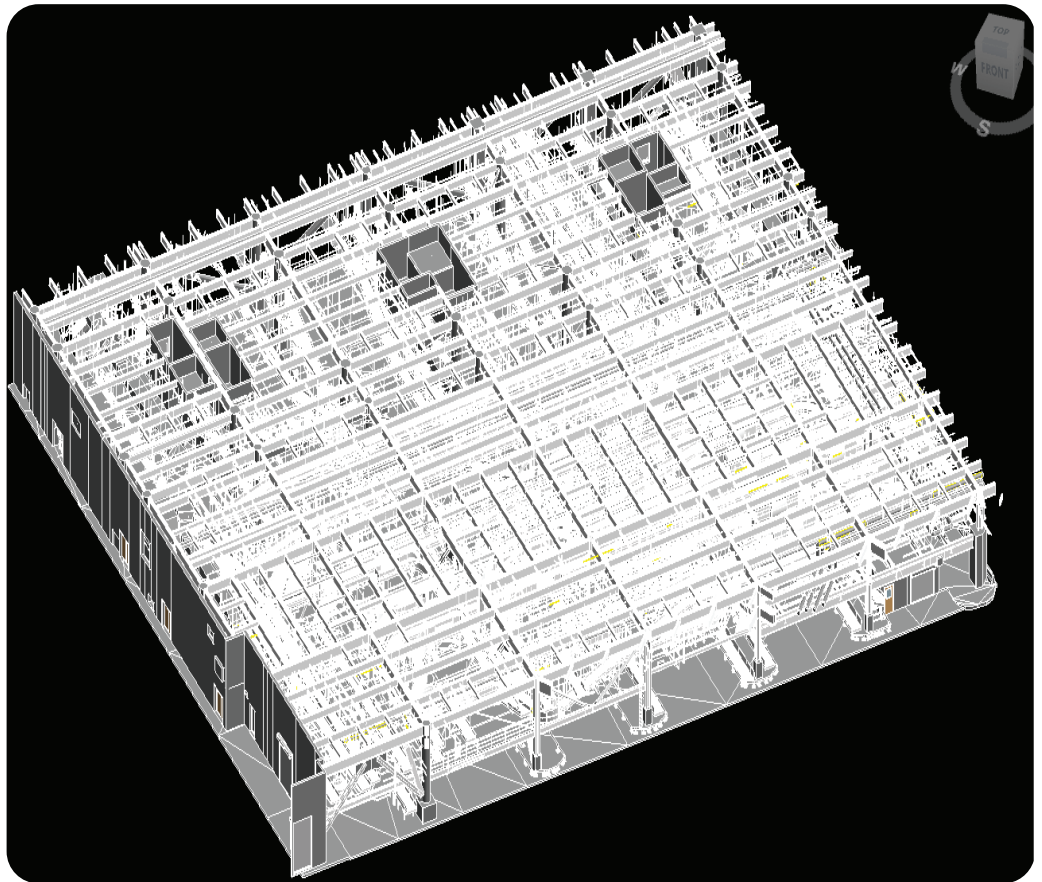


UK Office:
Edinburgh EH2 4AT,
Scotland, UK.



REVIT STRUCTURE

Page 3



US Office:

Scranton, PA 18505

Middle East Office:

Doha, Qatar.



Layer Informatics Pvt. Ltd.
Vision Through Mapping