

Case Study for MEP Project

Google Kirkland Phase II

Project information

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|----------------|---------------------------|
| Building Type | Office |
| Location | Washington, USA |
| Billable hours | 000 hrs |
| Inputs | Point Cloud file |
| Deliverables | BIM Model |
| Services | Duct, piping & Plumbing |
| Software | Fabrication-2014 Recap |

Business model adopted: Hourly basis business model was used for this project involving modeling of Duct, pipes and plumbing from Point cloud data.

Our scope of services

In Google Kirkland campus, located in Washington, a new 2-storey office building was proposed to suit existing office building over one level of structured parking. Phase II of the Google campus contains approximately 180,000 gross square feet of office space and 720 parking stalls in two underground levels of parking. It is located in close proximity to downtown Kirkland and directly adjacent to Google's current campus. The current campus and the Phase II are separated by a former 100 foot railroad right of way, which will be improved as part of Phase II, providing the necessary vehicular, pedestrian, and infrastructure improvements to connect the two phases. Our scope was to create an intelligent BIM with LOD 400 of HVAC and plumbing services from the 3D scanned point cloud data of the building.

The available inputs were point cloud data with panorama views. A slight difficulty was encountered in modelling of pipes that drops from ceiling and runs in wall chases to the plumbing fixtures. We could overcome that with the help of rough sketches from the client. We created the model in FABMEP-2014 with assistance of Autodesk Navisworks and Autodesk Recap. Final deliverable submitted by Advenser was an As-built model of HVAC ducts, pipes and plumbing services together with supports.

