

## **LAB 11-12**

### **Ortho-Projection, Cloud-Based Modeling and As-Built Inspection**

Scan the northern part of Acacia building and save the file as ACACIA.PPF. Using the ACACIA.PPF and WALL1.DWG files located in the H:\SG-149 folder, perform the following tasks:

1. Select only the north Acacia portion of the point cloud and create a subproject.
2. Create an ortho-image from the point cloud in the subproject by projecting it on the horizontal plane.
3. Load the WALL1.DWG file into the subproject and perform an inspection of the walkway wall. Generate an inspection map and three Section Difference Plots.
4. Perform cloud-based modeling and create the model as shown in the attached drawing.

### **Lab 11-12 Report**

This is a group report. Each team only needs to submit one copy. The format of the report is as follows;

1. Title page including: a) title of the lab; b) course name and lab number; c) team members; and d) date.
2. Objectives
3. Procedures for perform various tasks.
4. Results and discussion
5. Conclusion