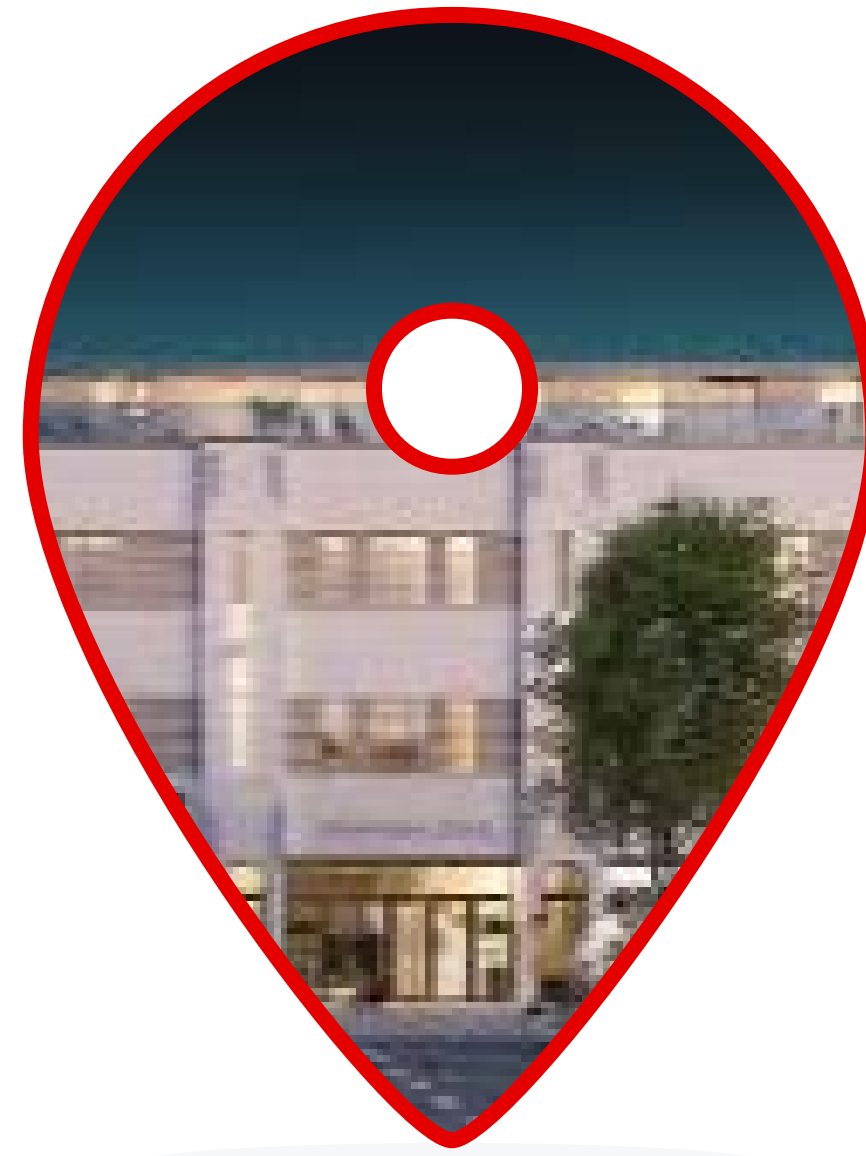




Plenitus

# CASE STUDY



VISION HOUSE, WIMBLEDON

A Case Study by Plenitus Construction Services

# PROJECT OVERVIEW



Picture 1 - Site Location



Picture 2  
Vision House (3D  
Visualisation) as  
viewed from Kingston  
Road, following  
redevelopment.

## Project Details

**Client:** Residential Developer

**Site:** Vision House, 290-302 Kingston Rd, Wimbledon, London SW20 8LX

**Date Completed:** May 2020

## Overview

Vision House comprises of an existing four storey Art-Deco building within a site extending to 0.22 acres (900 sqm). Four retail units occupy the ground floor with 19 residential flats above, made up of one and two-bed apartments, arranged over the first and second floors at the western end of the building and the entire third floor.

The building originally comprised of retail units on the ground floor and office space on the remaining three levels above.

**Plenitus Construction Services Limited (PCSL)** were engaged directly by the developer to undertake a measured building survey (MBS) of the property.

The survey was commissioned by the developer to provide a set of baseline information drawings, which could subsequently be used to develop plans for redeveloping the upper levels of the property from commercial to residential use and reconfiguring the ground floor space for new retail units..

# SCOPE OF WORKS & METHODOLOGY

## SCOPE

- Undertake and provide a dimensionally accurate Measured Building Survey of Vision House, that included ground, first second and third floors. This was to include for the production of a 3d Revit model and 2d floor plans, sections and external elevations at a scale of 1:50, with an accuracy of Band D as determined from Table 2.3 of the RICS professional guidance, global 'Measured surveys of land, buildings and utilities.
- More specifically, the following information was requested to be included:
  - Internal/ external structural walls
  - Location of existing steel beams, to include section type, size and levels
  - Heights to cills, window/ door heads.
  - Floor and ceiling levels
  - Rainwater and vent pipes

## METHODOLOGY

- Site Survey - Undertake a measured building survey using a Leica P40 Scanner & Leica GPS
- Point Cloud - Register the point cloud to enable production of Revit Model
- Production of AutoCAD deliverables - From the resulting REVIT model produce the required elevations, cross-sections and floor plans

# DELIVERABLES

REVIT Model

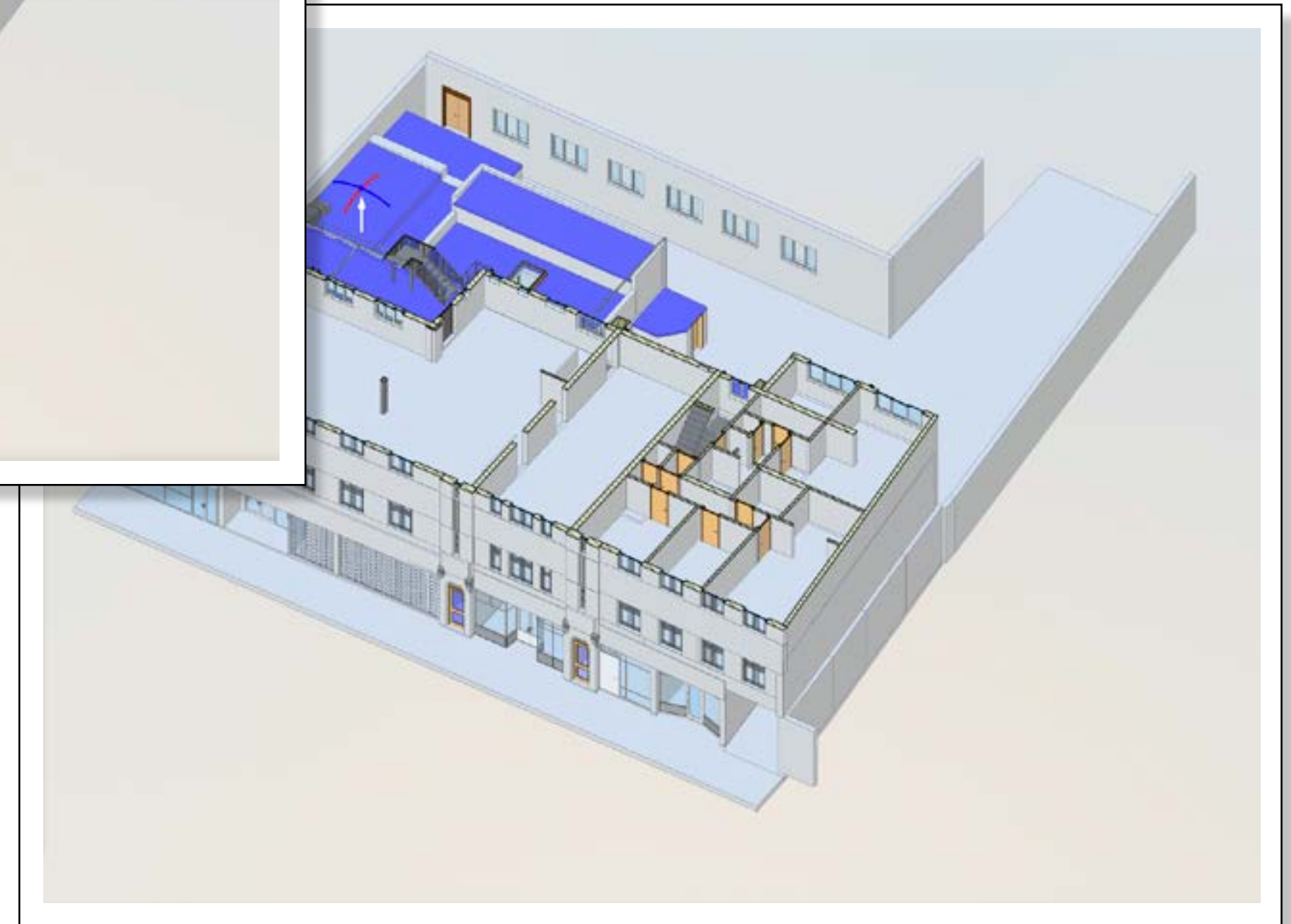
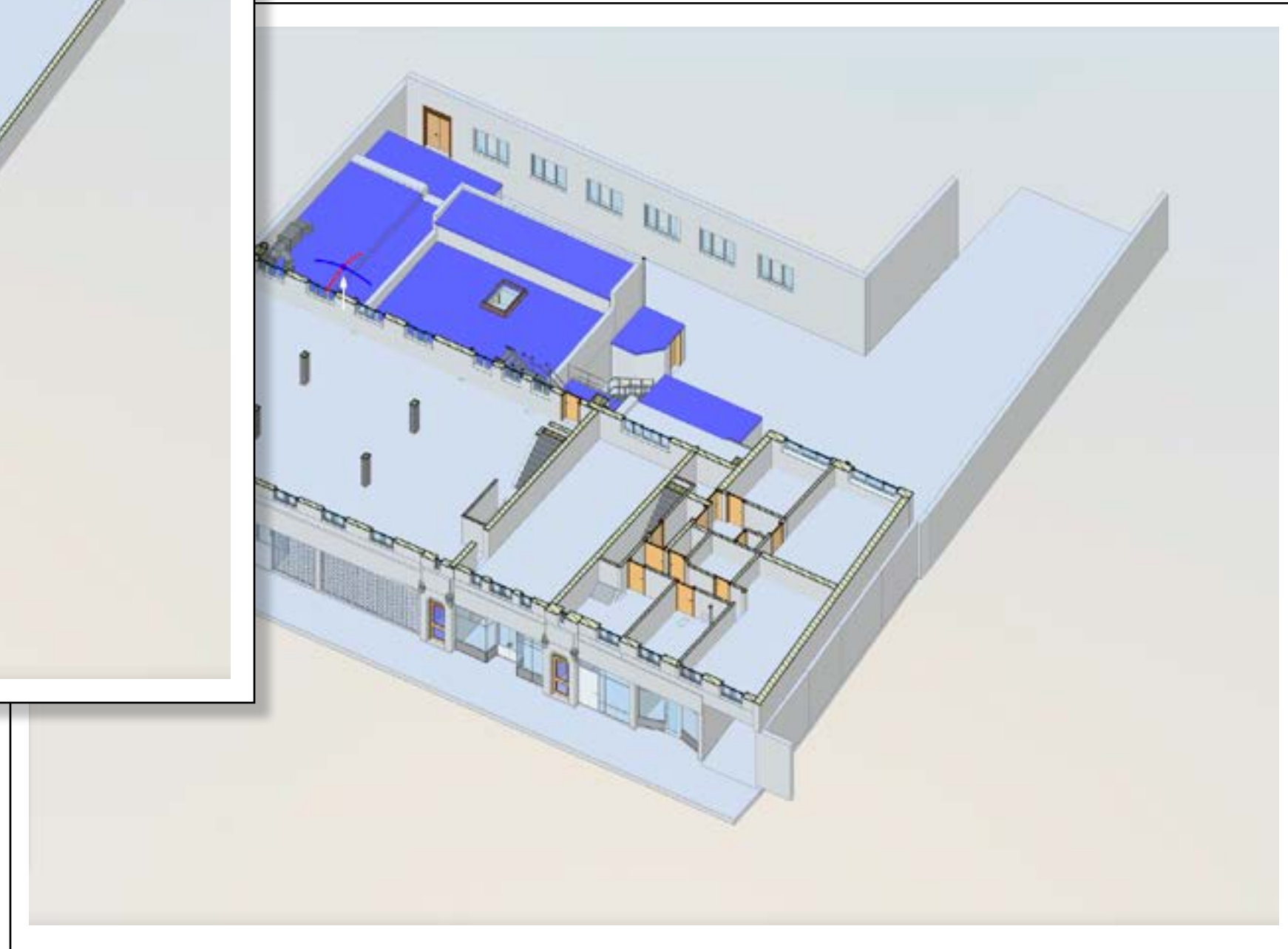
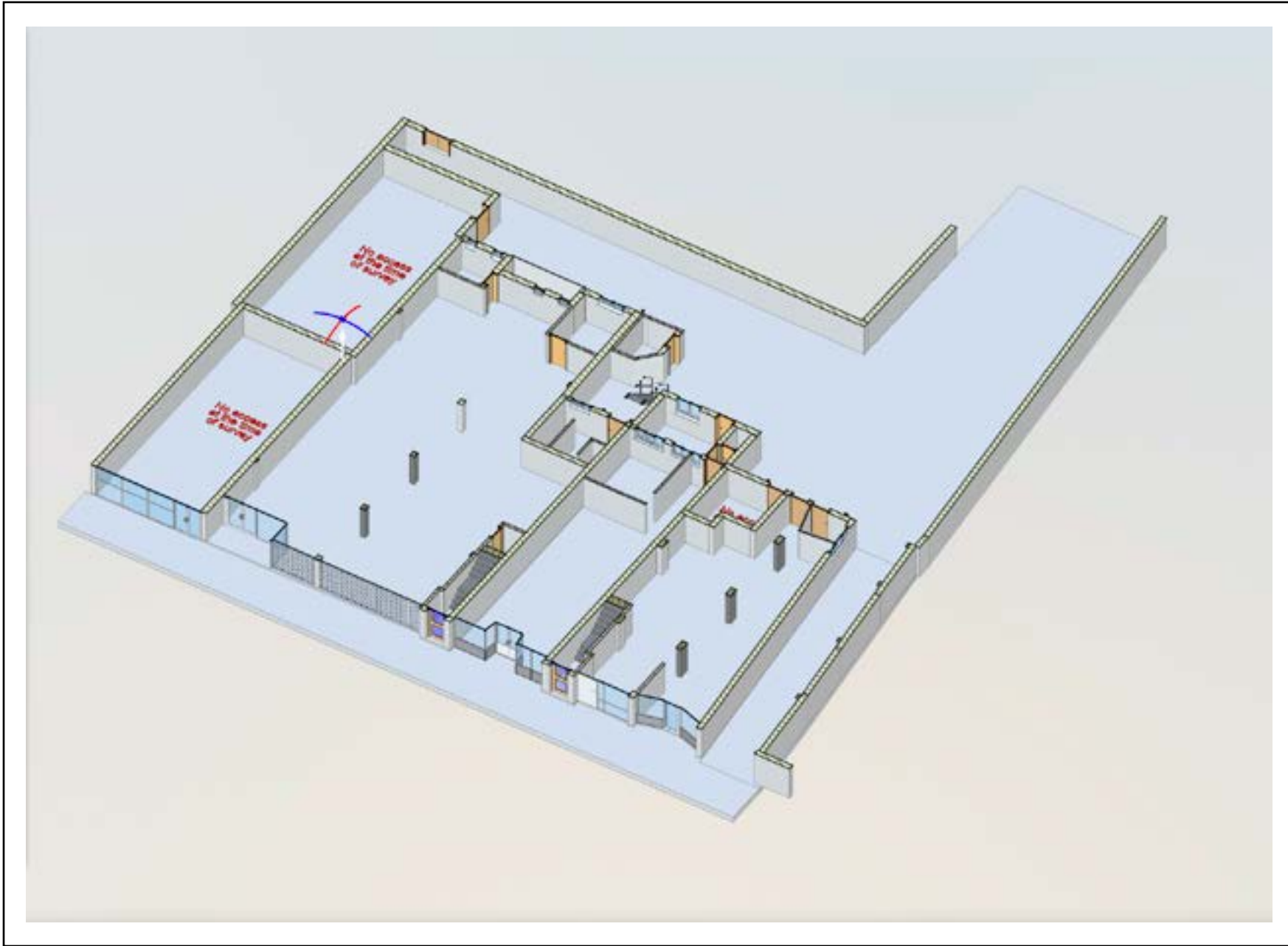


3D Model

*Existing Environment*

# DELIVERABLES

## REVIT Model Slices



3D Model

*Existing Environment*

# DELIVERABLES

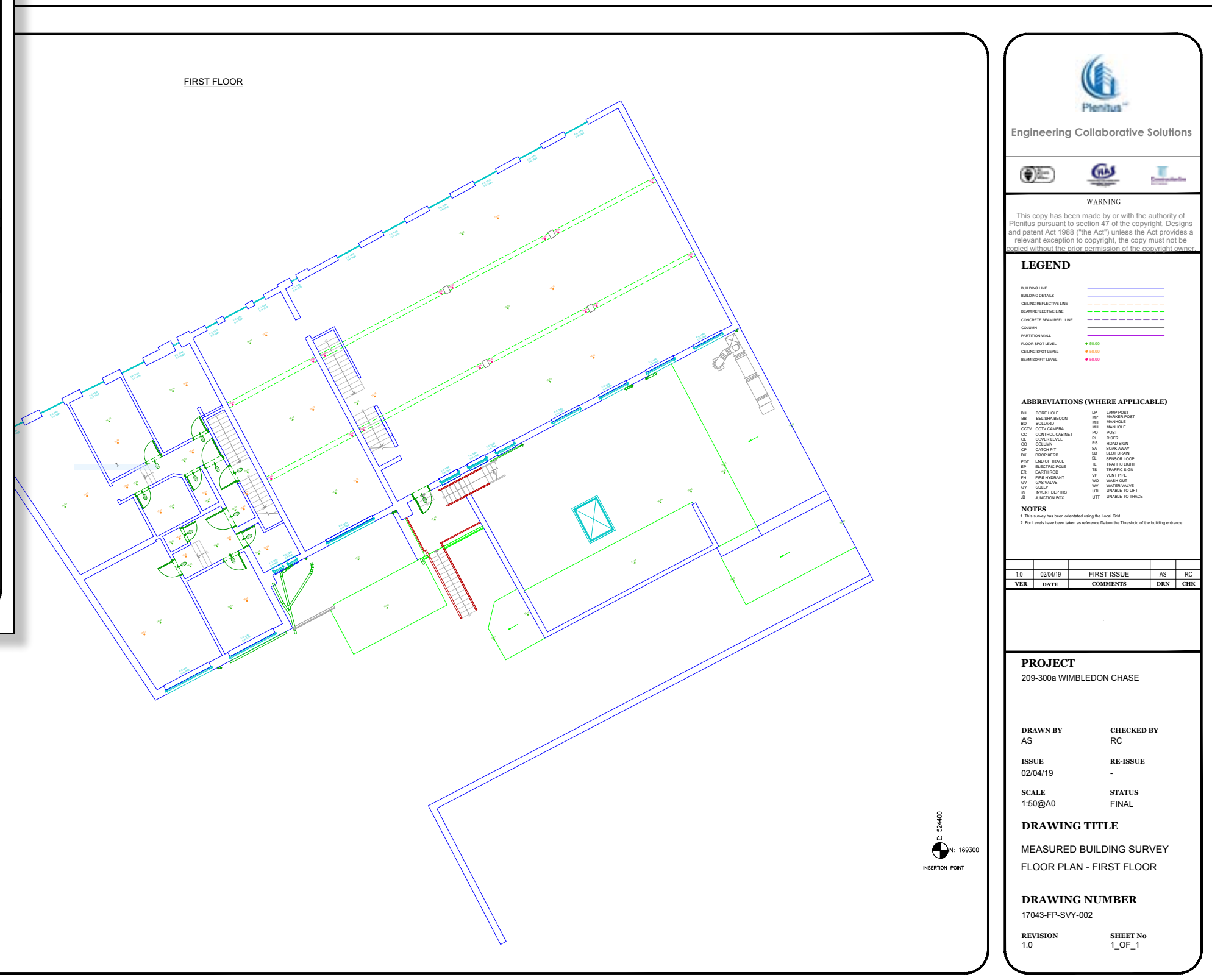
## Elevations



2D Model  
Existing Environment

# DELIVERABLES

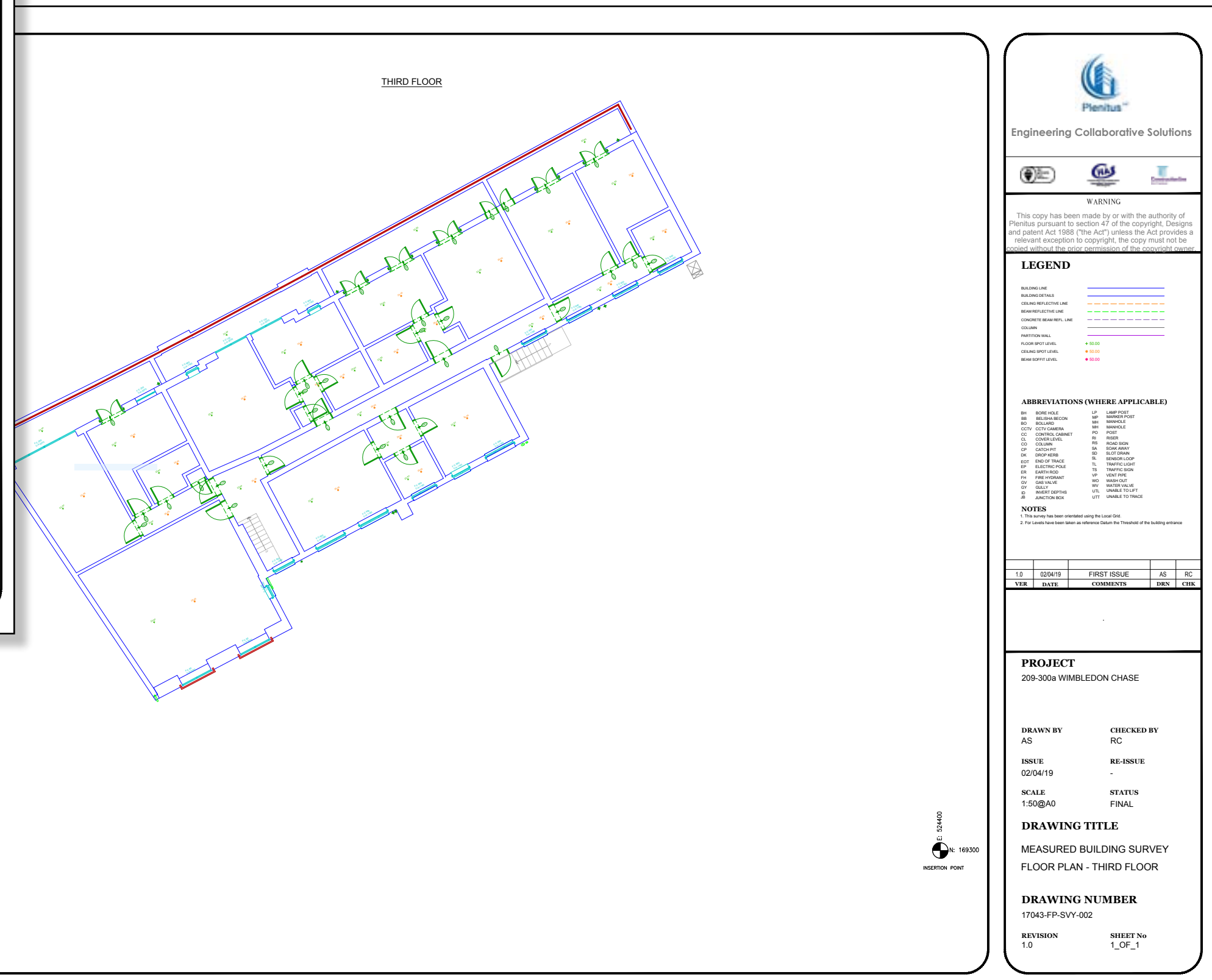
## Floor Plans



2D Model  
Existing Environment

# DELIVERABLES

## Floor Plans

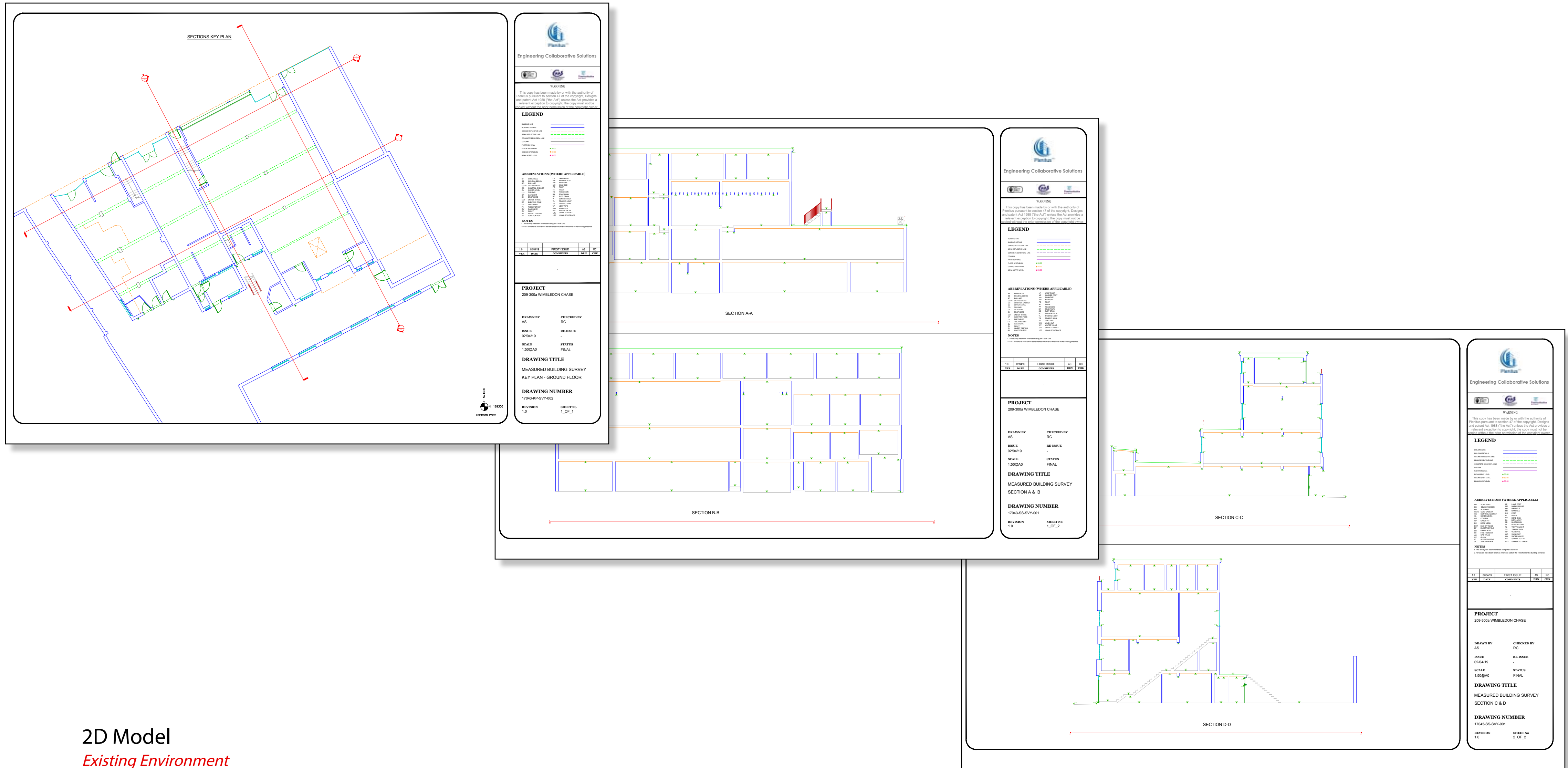


2D Model  
Existing Environment



# DELIVERABLES

## Cross Sections



2D Model  
Existing Environment



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