

# Building AsBuilt Report

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## Executive Summary

This detailed technical report for the Building AsBuilt project provides a comprehensive overview of the as-built survey, capturing the final constructed state with precision. Prepared by an experienced site engineer, it includes methodologies, fieldwork notes, quality assurance steps, and survey outputs, all verified and checked against site requirements. The results are included in the attached data files for stakeholder reference.

## Introduction

The Building AsBuilt project involved a thorough survey to document the actual constructed elements as they exist post-completion. Conducted on May 22, 2023, this report ensures accuracy and compliance with design specifications, serving as a critical record for future maintenance and modifications.

## Methodologies

Employing advanced surveying techniques:

- **Equipment:** Leica TS16 Total Station and GPS for precise measurements.
- **Process:** Establishment of control points, detailed scanning, and data processing.
- **Accuracy:** Maintained within ±5 mm through rigorous checks.

## Fieldwork Notes

Fieldwork conducted on May 22, 2023:

- Setup of control points and initial perimeter survey.
- Detailed measurements of structural elements, noting minor deviations.
- Final verification and data collection under clear conditions.

## Quality Assurance Steps

Ensuring data integrity:

- **Pre-Survey:** Equipment calibration.
- **In-Field:** Real-time validation of measurements.
- **Post-Survey:** Data review and adjustment.

## Final Survey Outputs

Deliverables include:

- AsBuilt Drawings (*AsBuilt<sub>CAD</sub>.dwg*)*SurveyData(SurveyData.xlsx)*
- Point Cloud Data (*PointCloud.las*)

All data georeferenced with an average accuracy of  $\pm 3$  mm.

## Conclusion and Recommendations

The as-built survey confirms the building's alignment with design plans. Recommend periodic reviews and data integration into asset management systems.