



POLITECNICO
DI TORINO

Dipartimento di
Architettura e
Design

Master in Architecture for
Sustainability
A.Y. 2024 - 2025

Thesis Title

Gardella's Lost Legacy:
The Church of Alessandria.
Study, 3D documentation and
Analysis

Students

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S306891 Maria Jose Lopez Ortiz

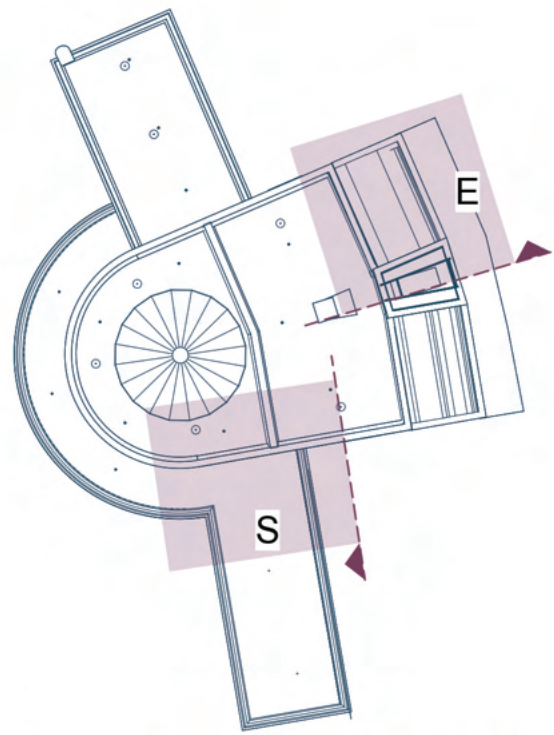
Supervisors

Supervisor:
Filiberto Chiabrando
Co-Supervisor:
Francesco Novelli

Board No. 05

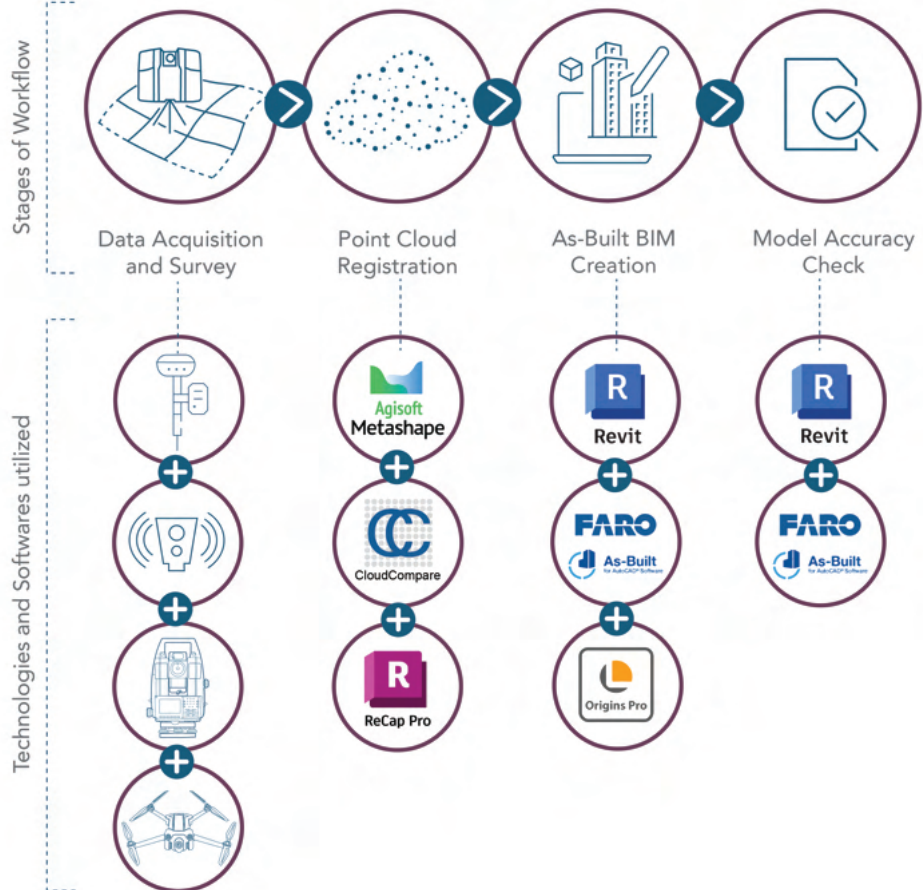
- TERRITORIAL CONTEXT
- GEOMATICS SURVEY
- 2D DOCUMENTATION
- HBIM DOCUMENTATION
- MATERIAL ANALYSIS
- CURRENT STATE OF
CONSERVATION ANALYSIS
AND SOLUTIONS
- THE PROPOSAL

The Church Building

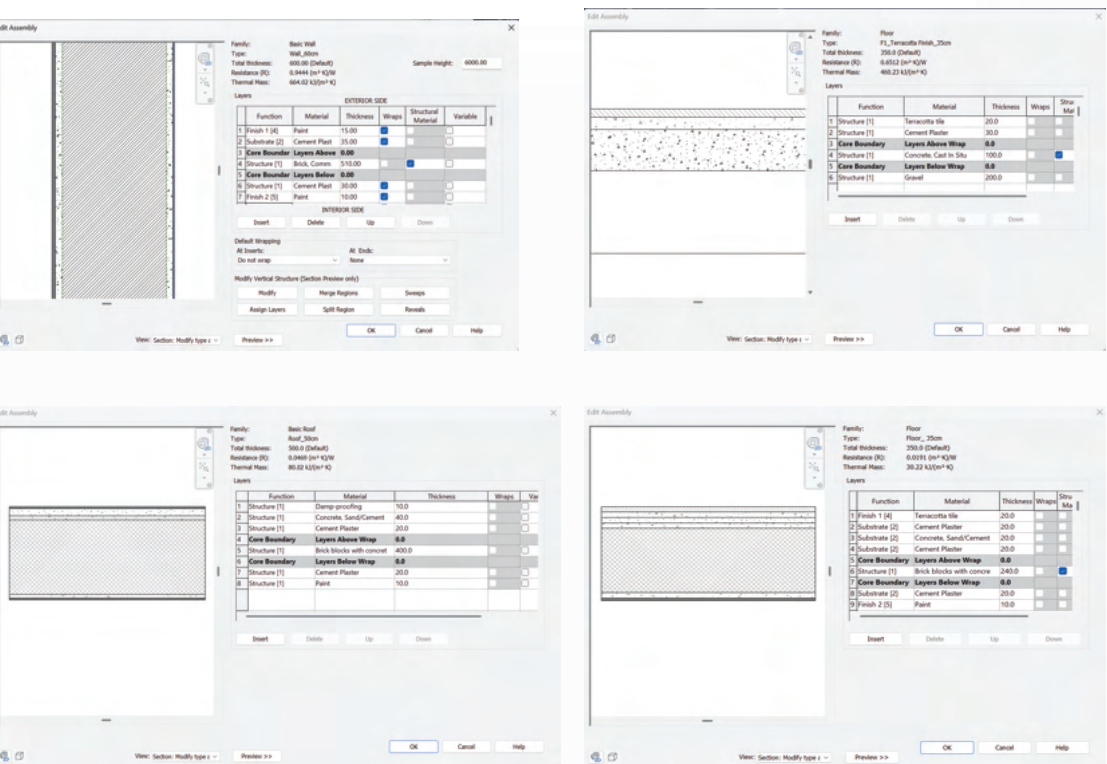


K01 Key Plan_East & South
1 : 400

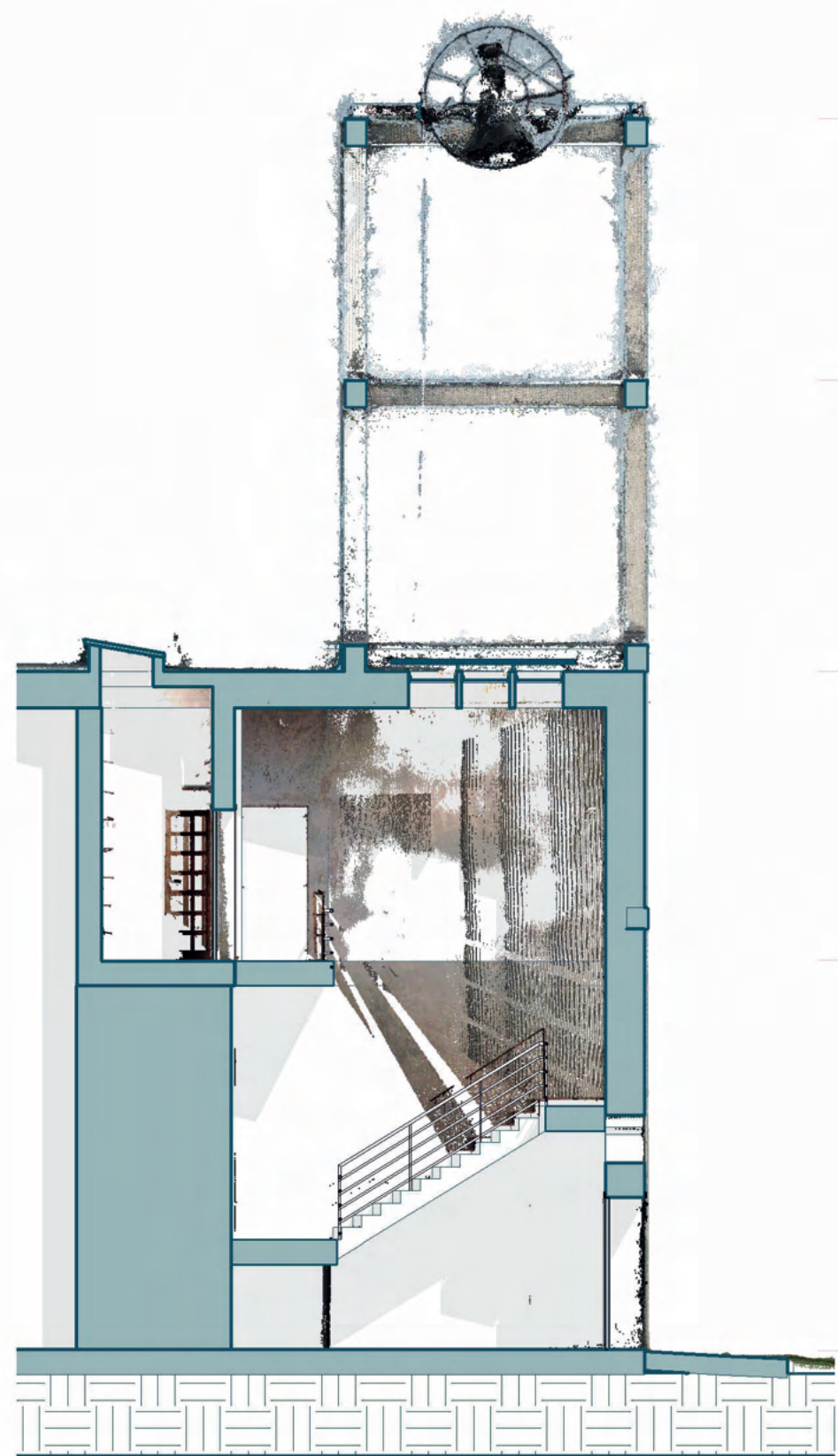
Modeling Scan - to - BIM Approach.



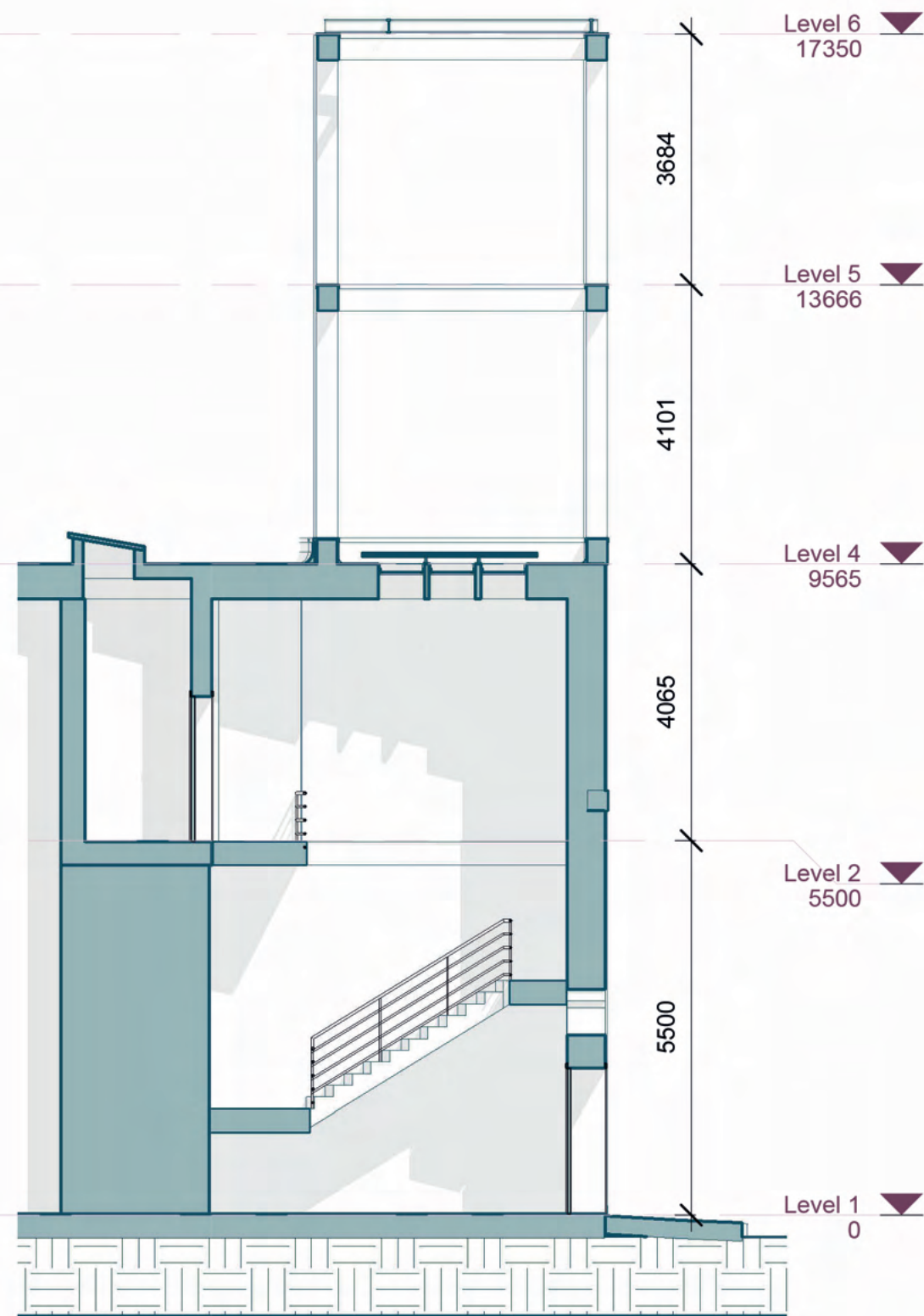
Materials and Stratification



East Wall Section Cut - Comparison of Point Cloud (walls, floors & roof) with 3D model

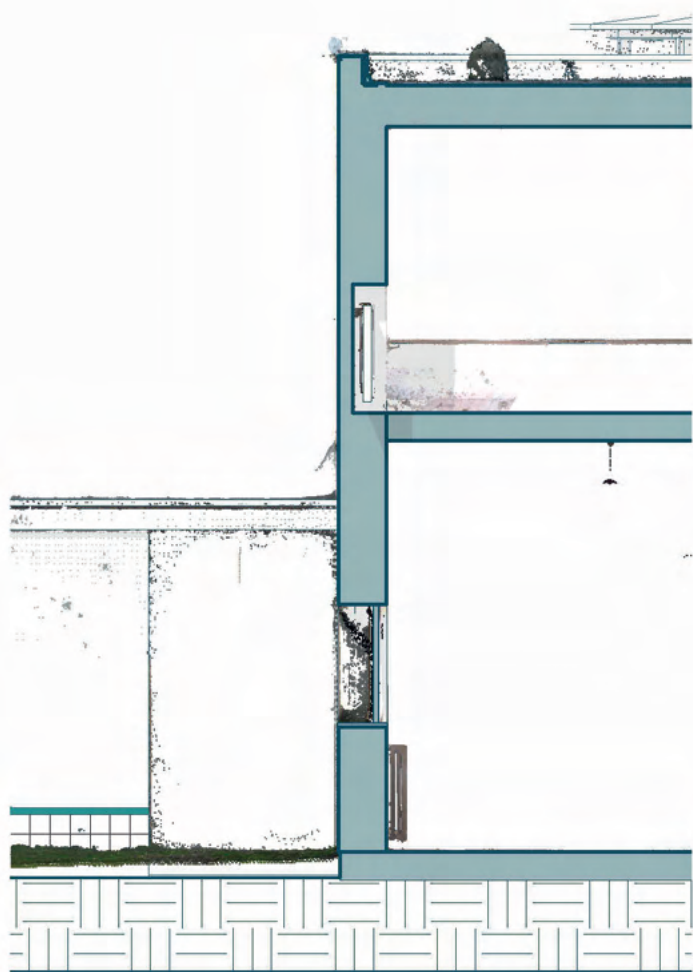


E01 East Wall Section_Point Cloud
1 : 100

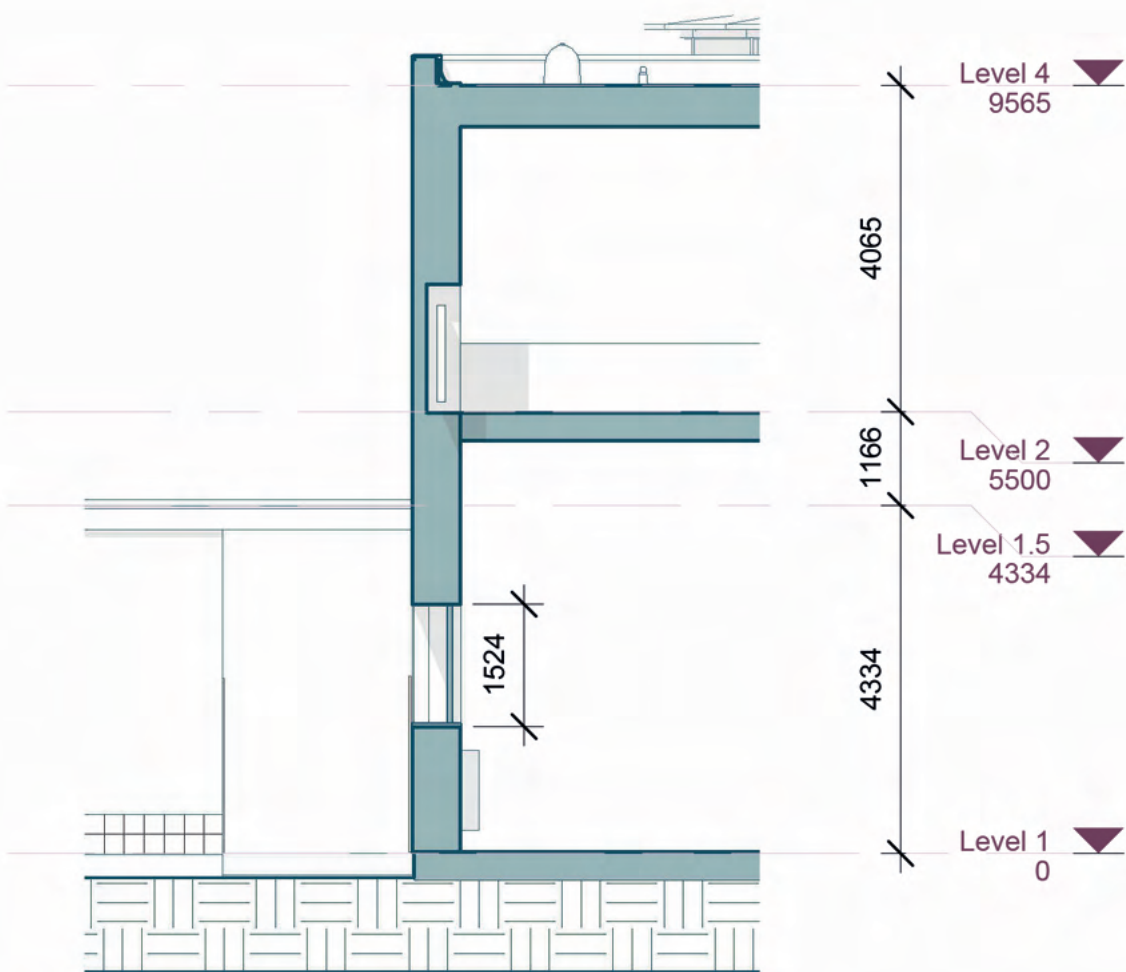


E02 East Wall Section
1 : 100

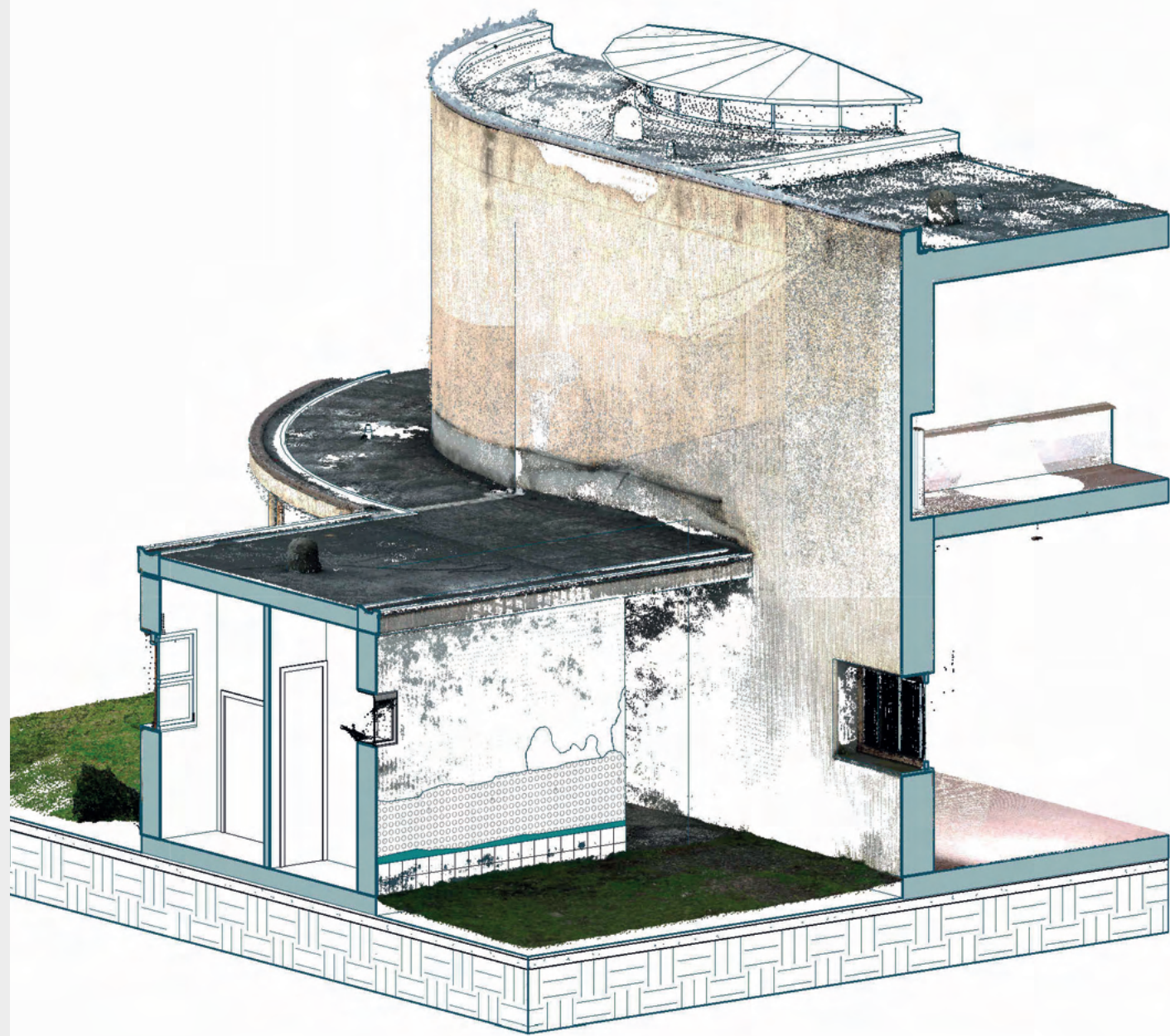
South Wall Section Cut - Comparison of Point Cloud (walls, floors and roof) with 3D model



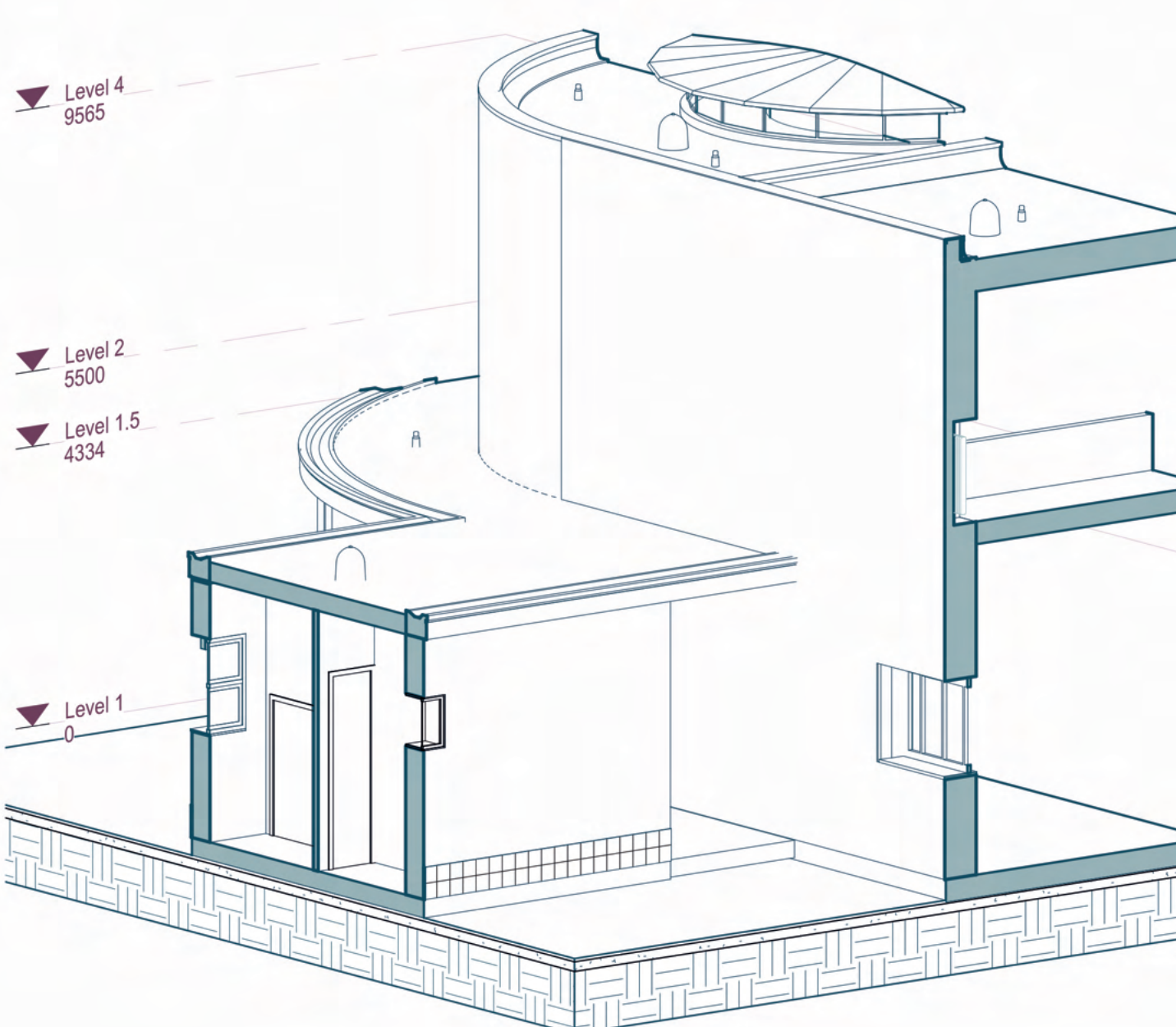
S01 South Wall Section_Point Cloud
1 : 100



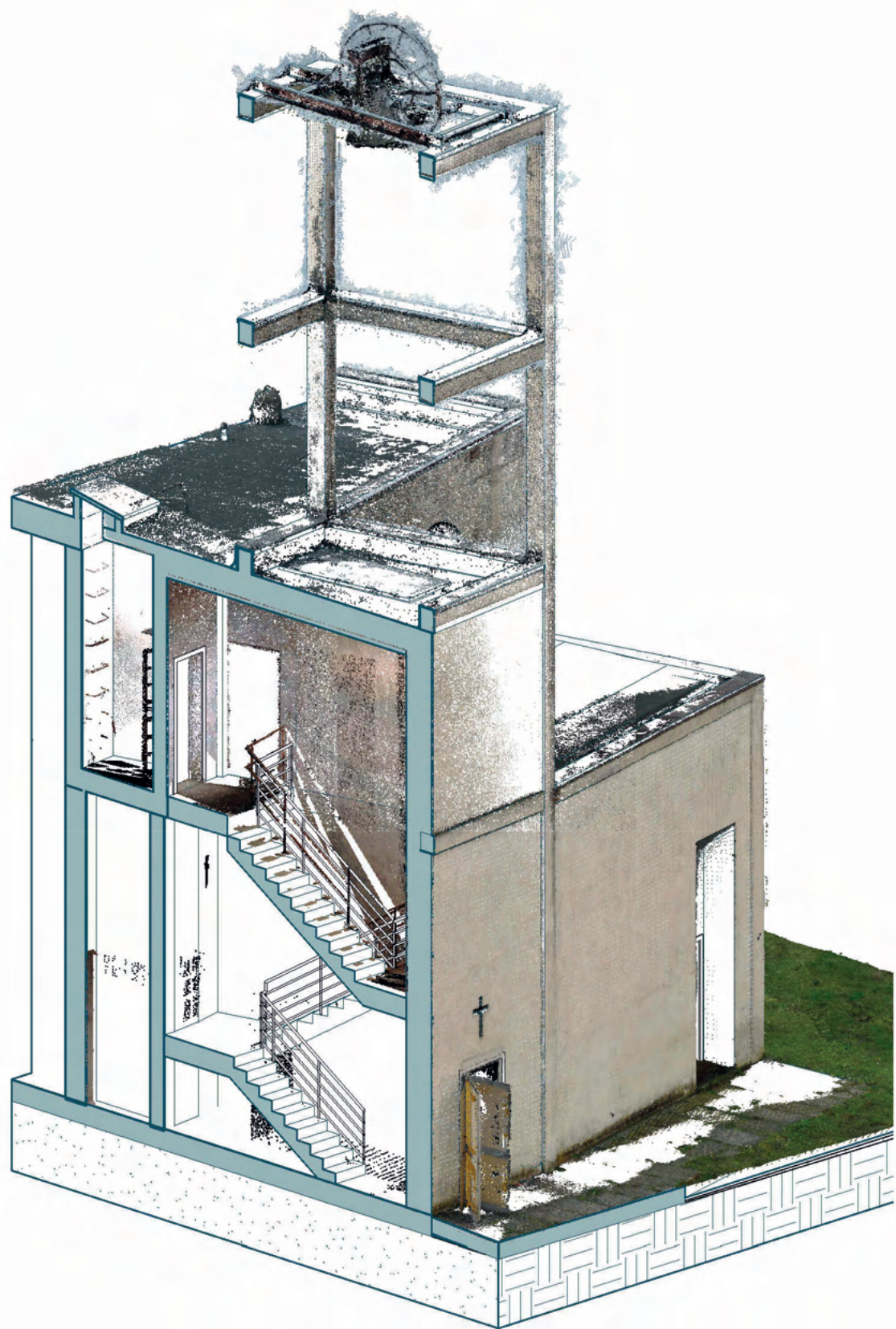
S02 South Wall Section
1 : 100



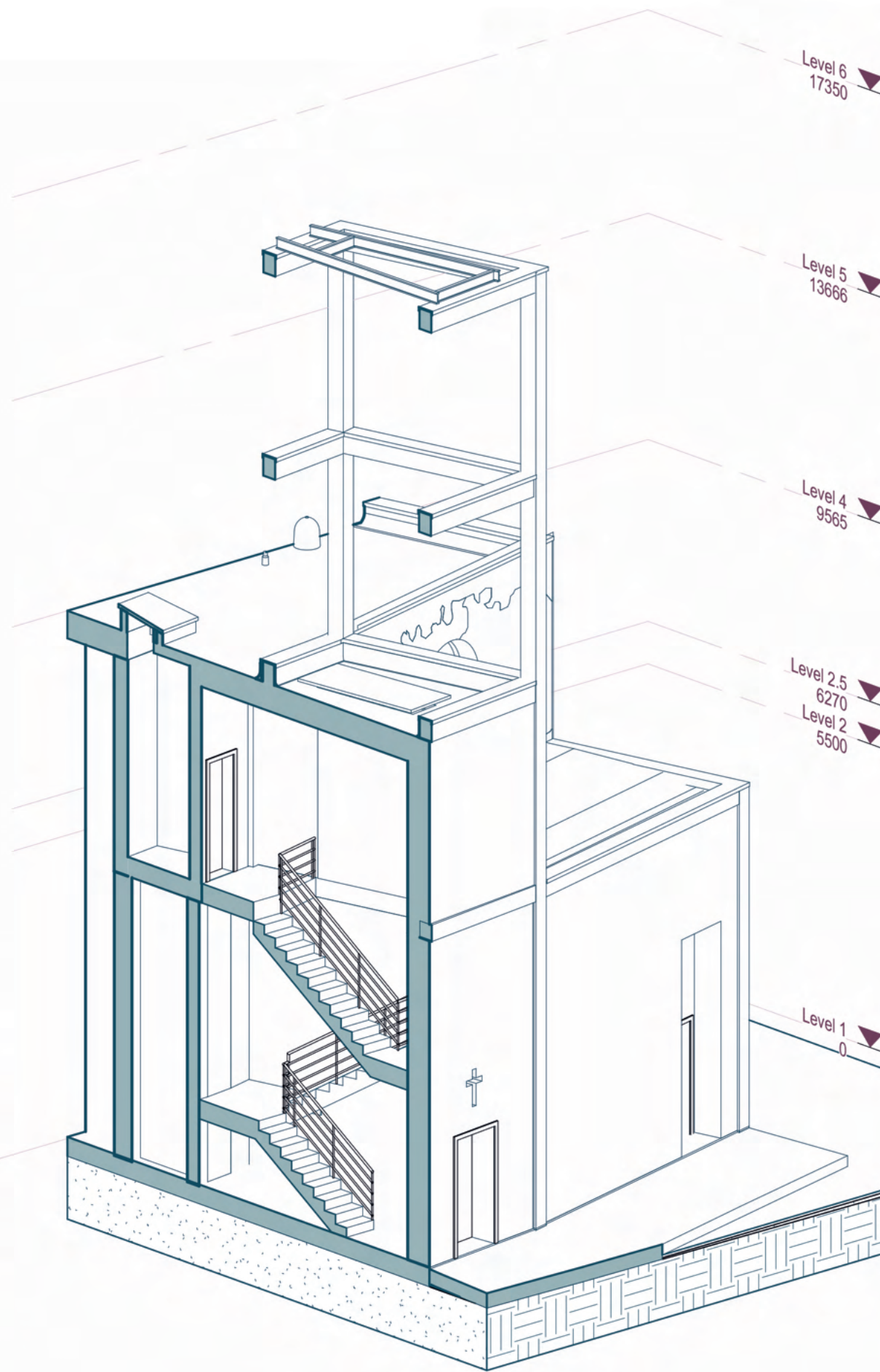
S03 South Walls_3D+Point Cloud



S04 South Walls_3D



E03 East Walls_3D+Point Cloud



E04 East Walls_3D