



Measured Survey
PRO
Work with confidence!

COMPARISON CHART

FEATURES	3D LASER SCANNING	TOTAL STATION	DISTO LASER/TAPE MEASURE
			
DATA COLLECTION FREE FROM HUMAN ERROR	 Automated data collection at 976,000 measurements per second with 0% chance human error	 Single-point manual data collection	 Single-point manual data collection
QUALITY CHECK OF DRAWINGS FOR ERRORS BEFORE RELEASING THEM	 3D point cloud allows manual quality checks without revisiting site. Double quality check is performed prior to releasing any drawings.	 Accuracy dependent on surveyor's ability to measure correctly during site visit; no verification possible without revisiting site	 Accuracy dependent on surveyor's ability to measure correctly during site visit; no verification possible without revisiting site
PROVIDING ADDITIONAL INFORMATION AFTER A SURVEY IS DONE	 3D laser scanner captures measurements of all visible aspects during site visit, facilitating creation of new drawings without revisiting property	 Data is only collected to enable creating the originally requested drawings	 Data is only collected to enable creating the originally requested drawings
SURVEYING LOFTS	 A 3D laser scanner captures the entire space, including complex geometries, irregular shapes, and uneven surfaces.	 Total stations are less suitable for surveying lofts in certain situations where there are obstructions or obstacles that block the signal between the total station and the reflector prism	 Disto/tape measure may not be appropriate for loft surveys due to difficulty in accurately measuring distances and angles in confined spaces with complex geometries

3D Laser Scanning vs Total Station



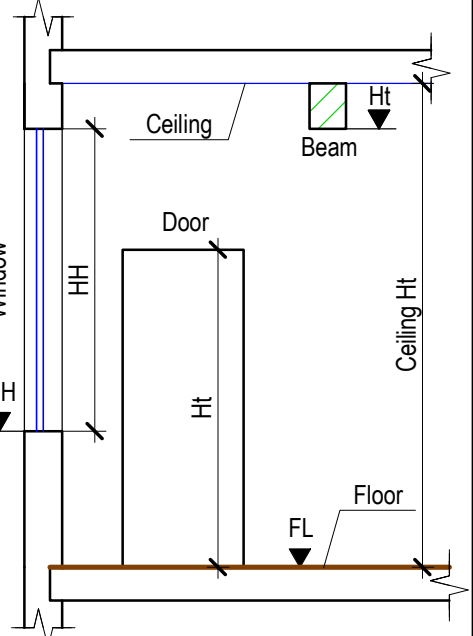
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+44 (0) 739 901 1771

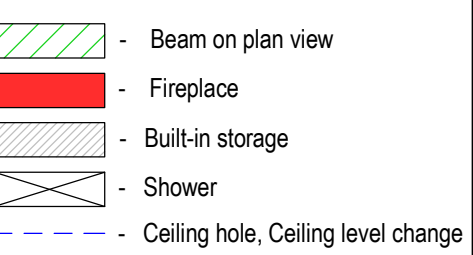
hello@measuredsurveypro.co.uk
https://measuredsurvey365.co.uk

Reference symbol

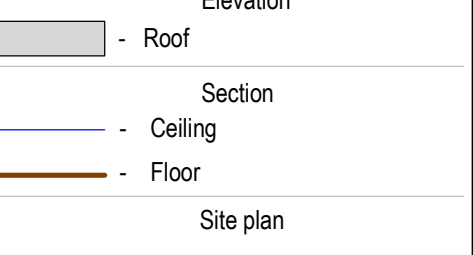
Plan



Elevation



Site plan



Abbreviations

FL	-	Floor Level
HT	-	Leaf Height (Door)
HT	-	Bottom Level (Beam)
SH	-	Window Sill Level
HH	-	Window Height
TL	-	Top Level
BL	-	Bottom Level

Notes

- All information contained in this drawing should be checked and verified prior to any fabrication or construction.

- Any discrepancies between this drawing and any other information should be reported to Measured Survey Pro within 60 days after the native CAD DWG drawings are released.

Project number

MS - 152020 - 00001

Project address

3D Laser Scanning vs Total Station

Description

Existing ground floor plan

Drawn

SK

Checked

CP

Scale bar



Scale

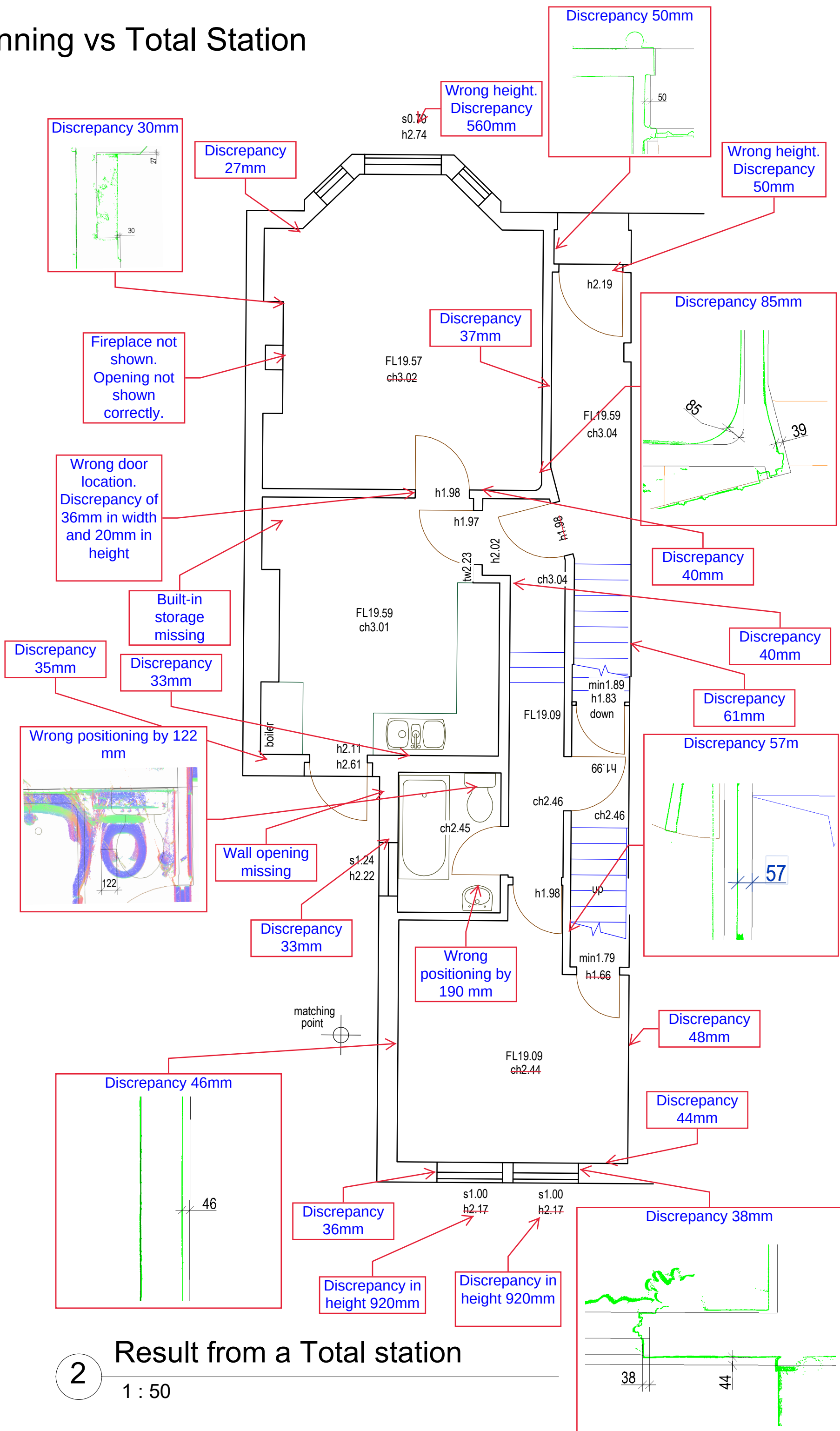
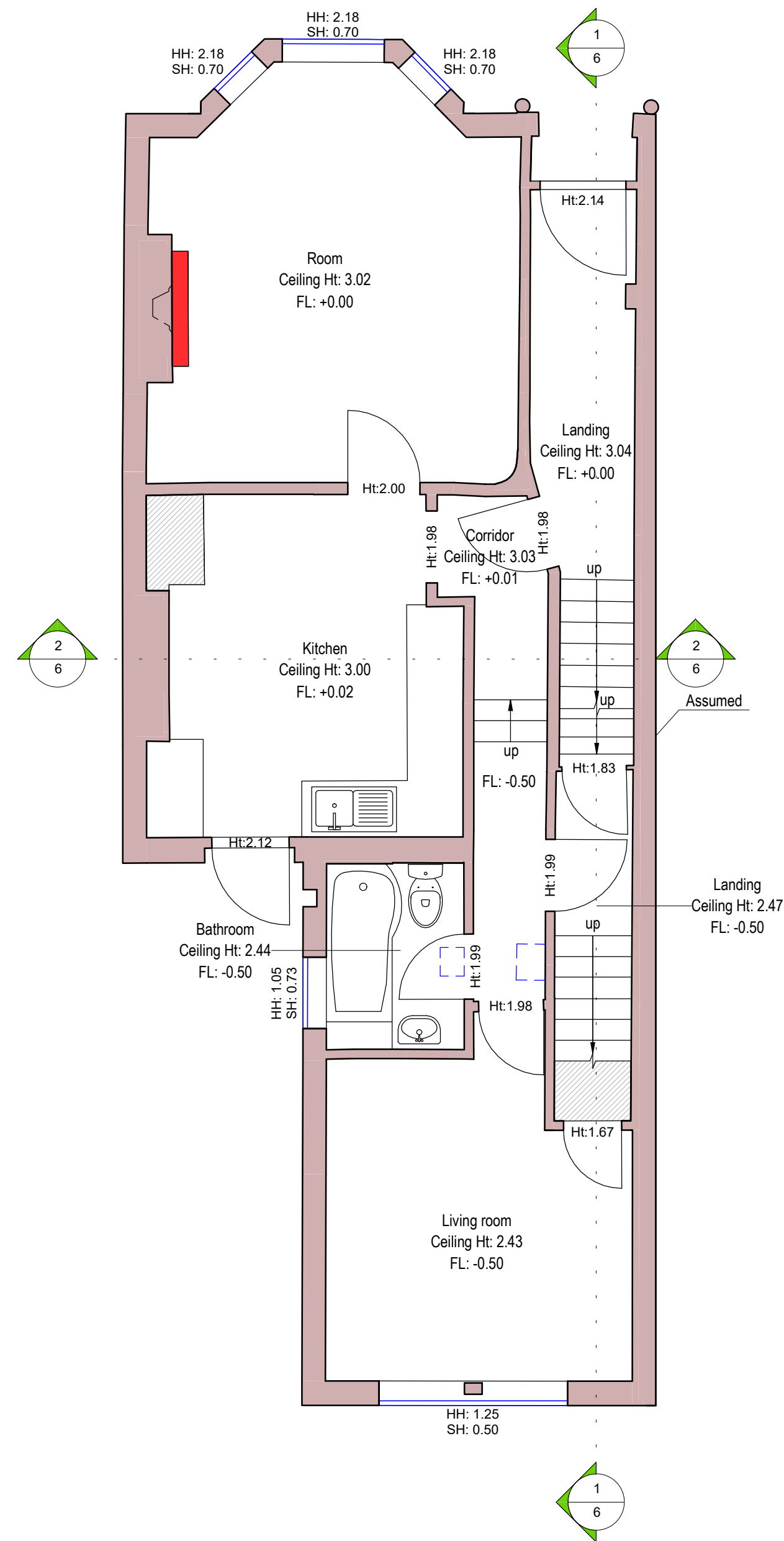
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Format

A2

Sheet No

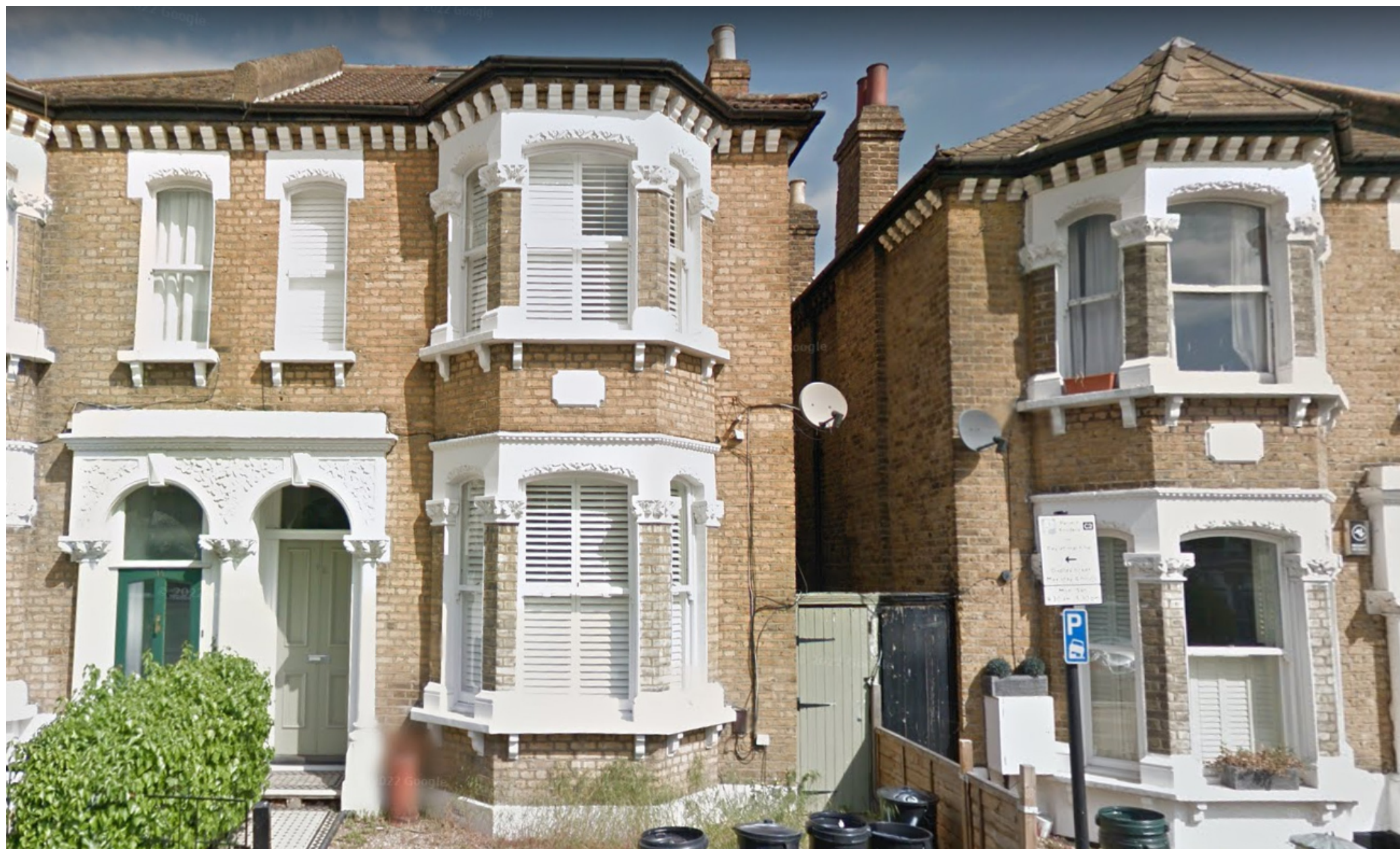
2



1 Result from a 3D Laser Scanner
1 : 50

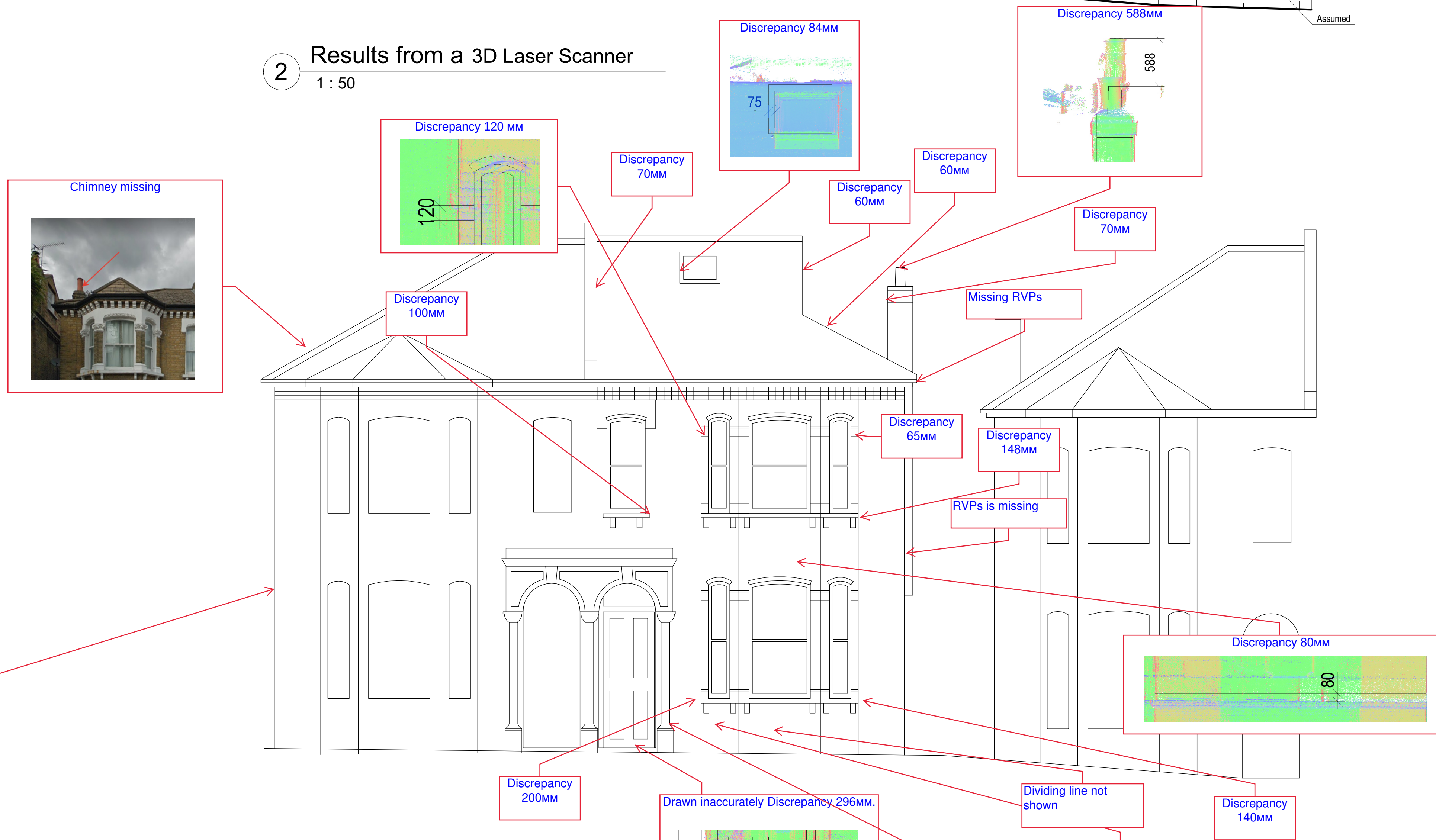
2 Result from a Total station
1 : 50

3D Laser Scanning vs Total Station



1 Reality
1 : 50

2 Results from a 3D Laser Scanner
1 : 50



Compared to a 3D laser scanner, a Total station can collect only one measurement at a time, resulting in generalized or approximate representation of many elements on the drawings. This can lead to

3 Results from a Total Station
1 : 50

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Reference symbol

Plan

Ceiling

Door

Window

SH

HT

FL

Floor

Ceiling Ht

Beam on plan view

Fireplace

Built-in storage

Shower

Ceiling hole, Ceiling level change

Elevation

Roof

Section

Ceiling

Floor

Site plan

Outline of a neighboring bld.

Fence

Landscaping

Manhole

Abbreviations

FL - Floor Level
HT - Leaf Height (Door)
HT - Bottom Level (Beam)
SH - Window Sill Level
HH - Window Height
TL - Top Level
BL - Bottom Level

Section Number

1

3

Sheet Number

Notes

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Some areas of the roof are based on assumption due to visibility restrictions

Project number

MS - 152020 - 10001

Project address

3D Laser Scanning vs Total Station

Description

Existing front elevations

Drawn

SK

Checked

CP

Scale bar

0 1 2 3

Scale

1:50

Format

A1

Sheet No

4