Scan Check Report

SAMPLE 01 - THREE-STORY RESIDENCE

Sample set. Client name, address and any detail that would identify the property have been removed. Drawings, figures and checks are otherwise exactly as delivered.

Point cloud source	Terrestrial laser scanner, E57
Scan date	04/29/2026
Modeling tolerance (straight-wall fit)	+/- 3/8" (10 mm)
Drawing set	7 sheets, ARCH D (24" x 36"), 1/4" = 1'-0"
Standard	US National CAD Standard V7 layers, imperial units, interior and exterior net areas
Net interior area	2,388 SF
Exterior and ancillary spaces	1,884 SF (garage, porches, balconies, terraces and other spaces listed apart; spaces not surveyed have no area)
Total scheduled area	4,272 SF (2,388 SF interior; 1,884 SF exterior, covered or ancillary)
Sheets	A-101, A-102, A-103, A-121, A-122, A-123, A-601

Summary

Check	Result
Drawn walls against the point cloud	**84%** of samples on 180 measured wall faces within +/- 3/8"; 95% within +/- 3/4"
Automated drawing checks (layers, units, dimensions, areas, schedules, text, sheets, plot style, DWG file read back)	**All 39** passed
Title block, sheet numbering and file checks	**3 of 3** passed

Drawn walls against the point cloud

Every wall face of the plans is sampled every 2 in and compared with the nearest scan point in a horizontal slice of the scan taken through the walls of that level. Door and window openings are left out. A sample with no scan point within 2 in is counted as not captured: exterior faces the scanner could not reach, party walls. Faces captured on less than half their length are left out of the figures and are drawn as assumed where the plans say so.

The plans draw walls straight and square, as is usual for architectural drawings. Existing walls are rarely so: walls out of plumb or out of square, baseboards and finishes move the scanned surface away from the drawn line. The share of samples between 3/8" and 3/4" comes mostly from these, not from misplaced walls.

Level	Faces measured	Median	90th pct.	Within +/- 3/8"	Within +/- 3/4" (20 mm)	Not captured (openings excluded)
Level 1	68	0.10 in (2.6 mm)	0.67 in (17 mm)	81%	93%	254 ft
Level 2	71	0.10 in (2.4 mm)	0.53 in (13 mm)	85%	96%	166 ft
Level 3	41	0.10 in (2.6 mm)	0.45 in (11 mm)	87%	96%	98 ft

Automated drawing checks

Every set is read back by software before release: layer names and plot styles, units and scales, dimension strings against the geometry, room areas and schedule totals, door and window tags against the schedules, text sizes, sheet numbering and title blocks, and the DWG file opened again after conversion.

All checks passed.

Limits of this survey

The utility room at the entrance (room 114) was locked: it is outlined from the outside, marked NOT SURVEYED and has no area.

A small enclosed void on Level 2 (room 209) has no door and could not be scanned: it is outlined, marked NOT SURVEYED and has no area.

The exterior face of one side wall could not be reached by the scanner; it is drawn dashed on layer A-INFR. The opposite side is a party wall shared with the neighboring property, drawn at an assumed thickness.

Window operation was not verified on site except for the two kitchen sliders; the window schedule says OPERATION ASSUMED where it applies.

The entrance gate is recorded as an overhead metal gate from the scan photos; its mechanism was not checked.

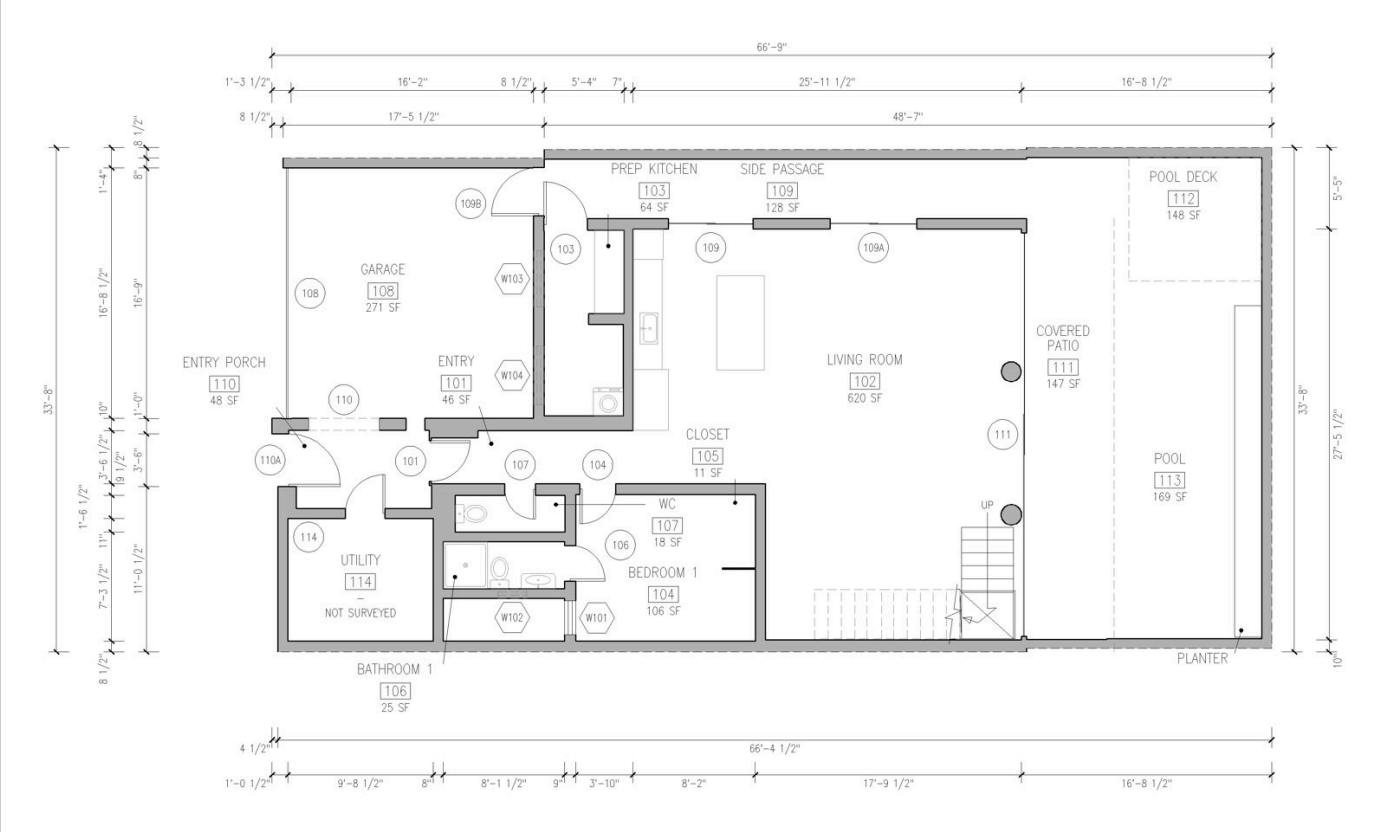
The entry porch has a glazed roof that returned no scan points; its ceiling height is not given.

Riser height is not annotated on plans; stair direction is shown by the UP and DN arrows.

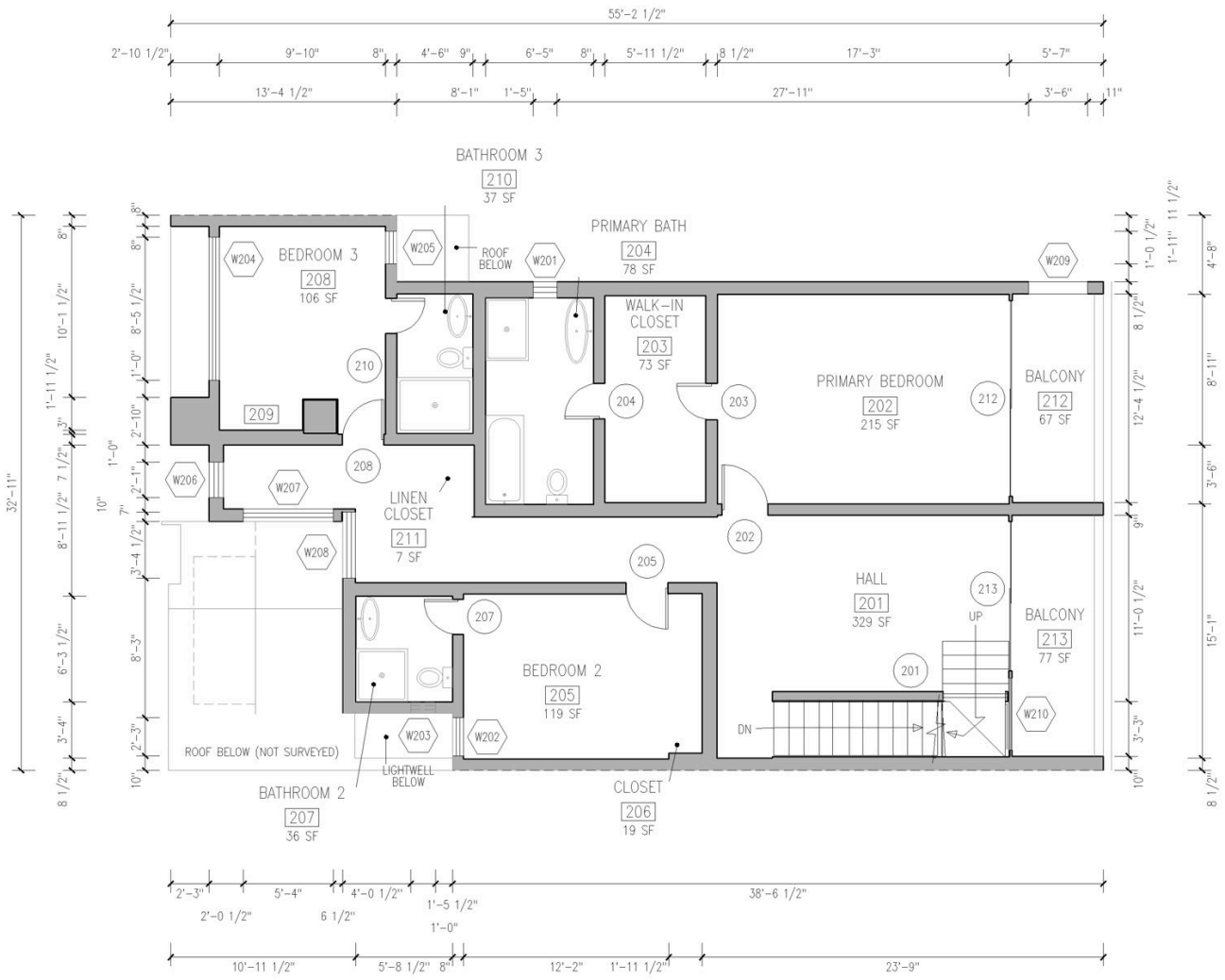
Floor finishes were not recorded and are left blank in the room schedule.

Plans over the point cloud

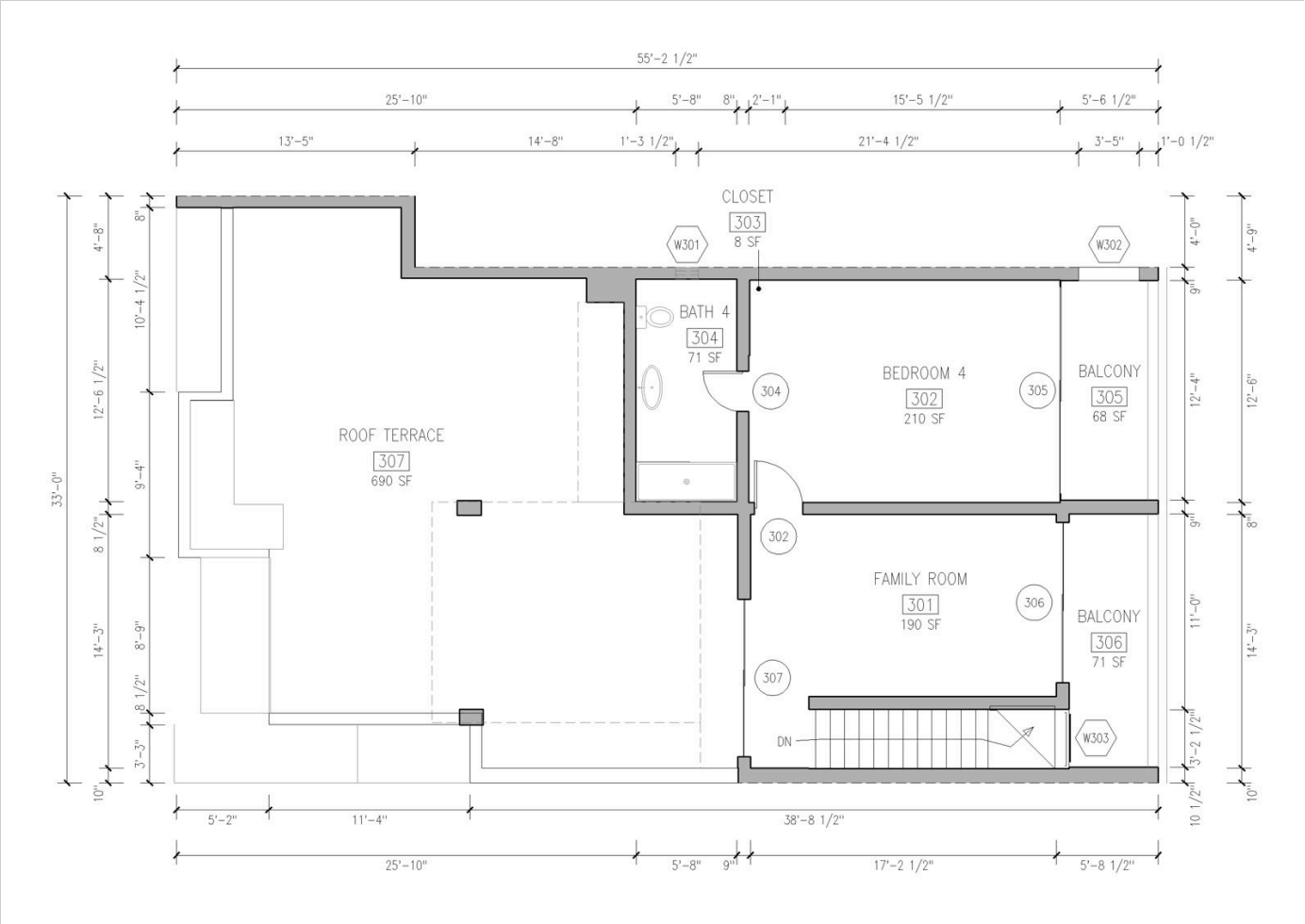
Each floor plan drawn over a horizontal slice of the scan taken at the plan cut height.



Sheet A-101


BATHROOM 3
210
37 SF
BEDROOM 3
208
106 SF
PRIMARY BATH
204
78 SF
WALK-IN CLOSET
203
73 SF
PRIMARY BEDROOM
202
215 SF
BALCONY
212
67 SF
LINEN CLOSET
211
7 SF
HALL
201
329 SF
BALCONY
213
77 SF
BEDROOM 2
205
119 SF
BATHROOM 2
207
36 SF
CLOSET
206
19 SF
ROOF BELOW
ROOF BELOW (NOT SURVEYED)
LIGHTWELL BELOW
UP
DN
55'-2 1/2"
38'-6 1/2"
23'-9"

Sheet A-102



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Prepared by SquareDrawn LLC, Indianapolis, Indiana. Not a boundary, land or ALTA survey. Report generated 11/19/2026.