

COURTYARD HOUSE / V16 · ATTIC FLOOR FRAMING

FRAMING CONCEPT

FOR COORDINATION · NOT FOR CONSTRUCTION

- Steel joists / span direction
- Steel beam / opening frame
- Concrete bearing / bond-beam line
- Attic-only roof-support post

LOAD PATH

Deck → joists → beams or concrete bearing → walls / attic posts → foundations. Deck ribs run perpendicular to joists. Thin dashed lines indicate a conceptual bridging route; final rows and anchorage require design.

FLOOR LOAD BRIEF

40 psf general live-load target PLUS actual dead load. Storage concentrations, cargo-lift reactions and rolling HVAC loads require separate checks. This is not a capacity rating.

F1 / F2 · GARAGE ACCESS

F1 spans 36' with no garage column. Short cross-joists and four-sided steel frames surround the existing stair and lift. F2 bridges the open Walk boundary above the ceiling.

F3 · OPEN EAST HALL

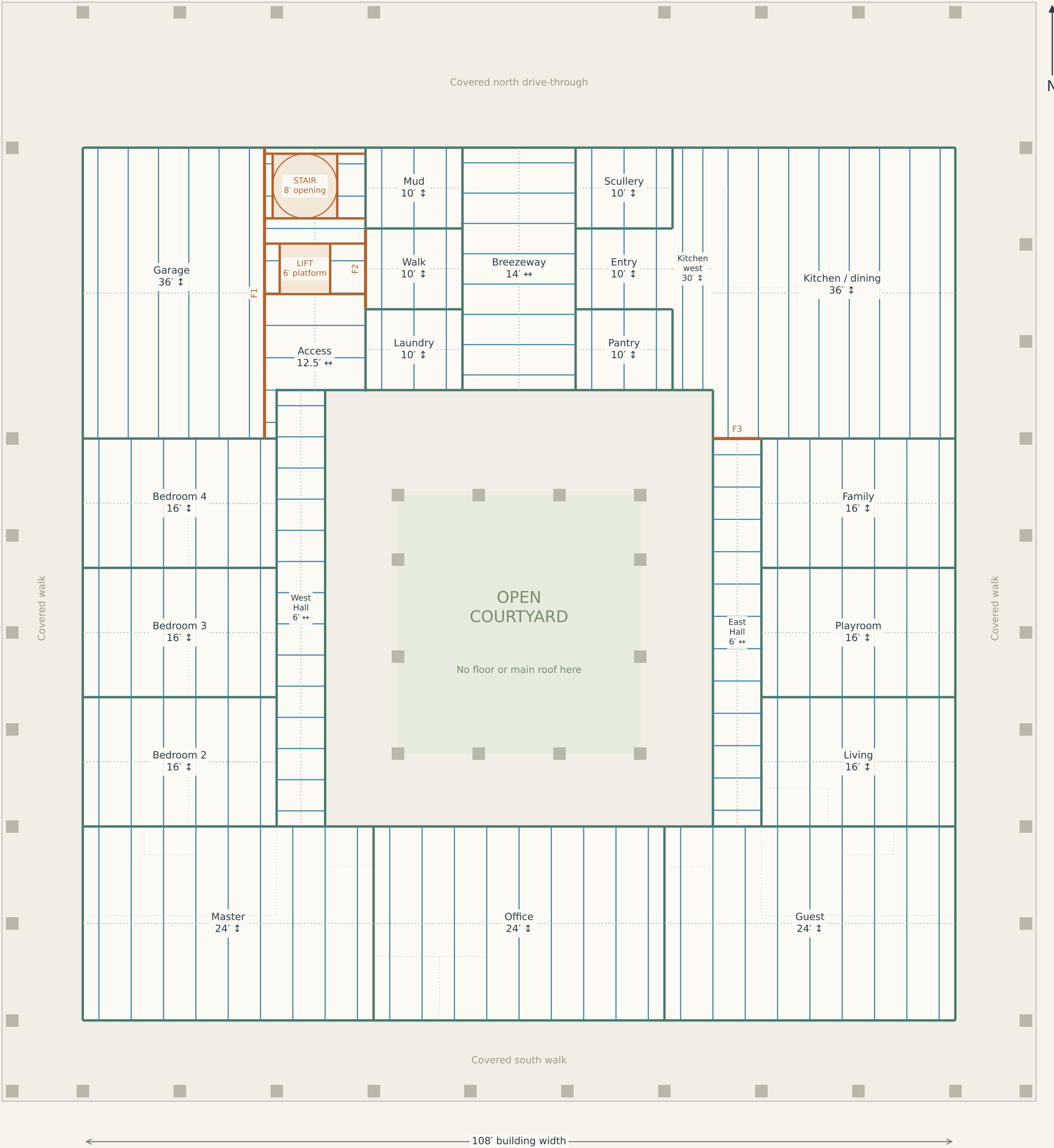
A 6' flush transfer supports the kitchen-side joists. No wall, post or downstand is introduced in the hall opening.

REPEATED SHORT SPANS

16' bays over the six side rooms; 24' over the south rooms. Longer 30–36' north spans preserve open rooms. Joist module $\leq 4'$ is a study variable, not a fabrication schedule.

DEPTH / CONNECTIONS STILL OPEN

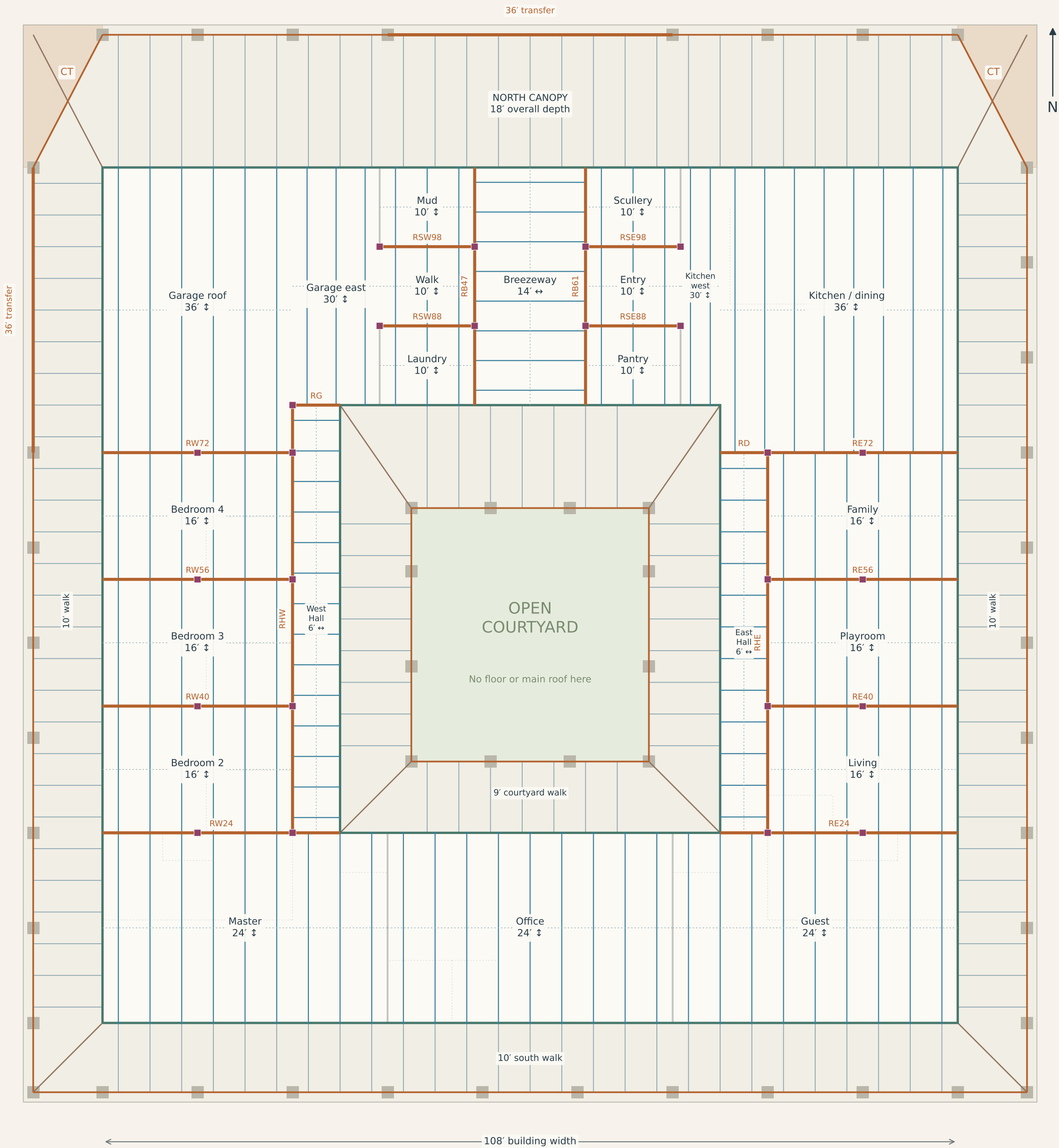
No steel sizes or slab thickness are selected. The existing 12" floor/roof placeholders are not validated. Preserve 12' rooms and 7' clear attic when engineered depths update the sections. Resolve bearings over every opening.



Measured room outlines + editable structural overlay | Feet | Joist/beam lines are not member widths

Geometry checks verify coverage and support-line connectivity only. Engineering must establish capacity, serviceability, lateral stability and foundations.

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OCCUPIED MAIN ROOF

100 psf unreduced gathering-load TARGET across the main roof, plus actual dead loads. Concrete/deck, terrace finish, solar and HVAC weights are additional. Terrace extent, access and guards remain to be designed.

POSTS ABOVE EXISTING WALLS

Roof girders repeat the short room bays. Magenta posts exist only in the attic, directly over concrete below. Reinforced wall bearing and footings must receive each reaction; the attic deck alone does not support them.

EQUIPMENT / ROOF STABILITY

Place heavy HVAC curbs near beam/post lines; design curb headers and point loads. Include wet-concrete construction loads, ponding, snow, wind/uplift, diaphragm and bracing. Hatch/hoist location remains open.

COVERED WALKS

Tile canopies are not occupied roofs. Both 36' outer beam spans remain column-free. CT marks north corner transfer girders and cantilevered tips needing detailed design; no removed pier is restored.

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