

SlrSrf Solar Surface Optimization

Optimization of the roof as a solar receiving surface for net zero photovoltaic electrical production generates the form of the 450 square foot (42m²) addition and renovation of an existing house in Culver City, California. The rotation of the roof surface to maximize solar intensity creates an opportunity to thicken the north wall to place systems otherwise located in the attic space, allowing a much taller ceiling of the living spaces. A new stair is located between the addition and existing house that integrates the library shelving displaced by the stair.

Fact Sheet

Client private

Location Culver City, California

Phase 1 (2012) | Design

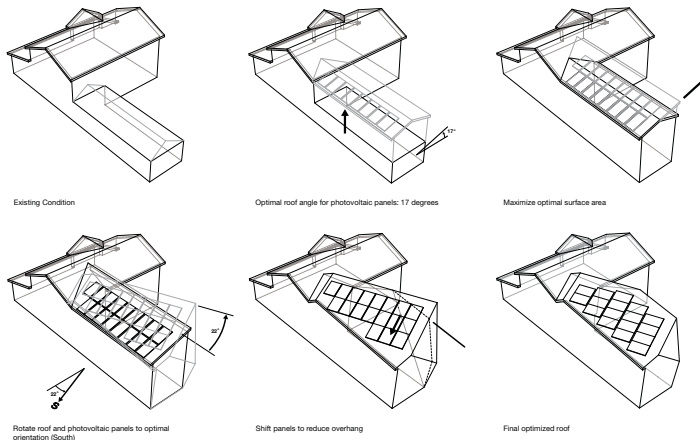
Phase 2 (2012-2013) | Building Permit and construction

Design Open Source Architecture

Structural Engineer Parker Resnick

Budget \$ 250,000

Size 450 sqf residential addition / 1500 sqf renovation



OSA

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