CASA DEL CONSUELO

PHPP thresholds. The exterior walls feature a super-insulated assembly with an effective R-value of R-27.8, paired with

Solar orientation informs massing, fenestration, and shading strategies to ensure year-round comfort. Strategically placed punched windows optimize glazing on the southern, western and eastern facades, with integrated shading devices to limit heat gain. The open-plan living-dining space benefits from morning light at the rear courtyard, where an arcadelike shading device along its length minimizes heat gain while maximizing indoor-outdoor usability. Mechanical ventilation with energy recovery (ERV) provides continuous fresh air to the interior, supplemented by a small-scale heat pump with a high seasonal coefficient of performance to ensure efficient conditioning year-round. A combination HEPA/carbon prefilter is installed upstream of the ERV intake for use during high-AQI days. Photovoltaic panels, integrated into the carport roof structure, provide shade for vehicles while offsetting the already low operational loads.

WILDFIRE AND RESILIENCE MEASURES COST EFFICIENCY

Given the location within the Wildland-Urban Interface (WUI), fire resilience strategies are integral to the design. maintaining high performance. Standard wood framing All exterior cladding materials are non-combustible, meeting ASTM E119 and California Chapter 7A standards. minimizing complexity while achieving Passive House Stucco over mineral wool insulation provides both fire R-values. Mechanical systems are right-sized to reduce resistance and durability, while soffits are fully enclosed both upfront costs and long-term maintenance. Durable with ignition-resistant materials. The roof assemblies incorporate Class A fire-rated coverings, with a ballasted are selected for their longevity in both aesthetics and membrane installation at flat roof conditions to further performance, lowering lifecycle costs. protect the roof under fire conditions.

Landscaping follows California defensible space standards, The floor plan incorporates universal design principles. A vegetation, gravel zones, and irrigated groundcovers. Both front and rear courtyards double as fire-safe zones: doorways, and a roll-in shower. The upper-level bedroom hardscaped with permeable pavers, minimal vegetation suites provide an additional option to serve as a primary near walls, and direct hose bib access. The carport at the suite, providing flexibility for all family configurations. front of the property is shielded by a low masonry wall, Circulation paths are wide and unencumbered, ensuring reducing ember exposure while providing privacy.

ARCHITECTURAL EXPRESSION

Architecturally, the design embraces a contemporary Spanish Colonial Revival style. Thickened wall profiles, arched entries, and sheltered courtyards ground the project in regional heritage, while modern detailing such as flush transitions, simplified massing, and highperformance glazing—aligns with the project's energy and and durable, cost-effective construction, the project fire-resilience goals. Courtyards are central to the design: demonstrates how a culturally rooted architectural between the house and the street, positioning vehicles at and sustainability in the Pacific Palisades. a safe distance from the home, while the rear courtyard provides a sheltered outdoor living space that enhances cross-ventilation and daylighting and also serves as a safe zone in wildfire scenarios.

> APPROXIMATE SUMMER SUN

The project emphasizes cost-effective assemblies while is paired with high-density continuous exterior insulation, finishes—such as stucco, concrete, and metal roofing—

AGING-IN-PLACE AND FLEXIBILITY

maintaining a 5-ft ember-clear perimeter with low-ignition full bedroom suite on the ground floor ensures accessibility from the start, with flush thresholds, 36-inch-wide comfortable, barrier-free movement throughout the home.

CONCLUSION

Casa del Consuelo exceeds PHPP energy performance benchmarks, integrates wildfire resilience and defensible space requirements, and ensures comfort and long-term adaptability through aging-in-place design. By combining passive and active strategies, fire-resistant detailing, the front courtyard creates a physical and visual buffer language can meet the challenges of climate, resilience,

ENVELOPE

» MINIMAL BRACING TO STRUCTURE » SHADE ADJUSTED FOR SOLAR ANGLE

TYPICAL SLOPED ROOF ASSEMBLY: (UNVENTED W/ OVER-ROOF VENT CAVITY)

- » 3/4" EXTERIOR GRADE ROOF SHEATHING
- * 1X LONGITUDINAL FURRING (OVER-ROOF VENT CAVITY)
 * SELF-ADHERED VAPOR PERMEABLE AIR CONTROL LAYER
- » 7-1/4" GPS INSULATION (CONTINUOUS)
- » 2X FURRING @ 16" O.C. (SERVICE/LIGHTING CAVITY) » INTERIOR FINISH
- UNVENTED ROOF EAVE (WRAP ROOF AIR CONTROL LAYER CONTINUOUS AROUND

EAVE TO EXTERIOR WALL CONTROL LAYERS)

- INSULATED HEADER (FULL DEPTH CAVITY INSULATION)
- OVER-INSULATED WINDOW FRAME (EXTERIOR WALL INSULATION WRAPPED INTO OPENING, 4-SIDES)

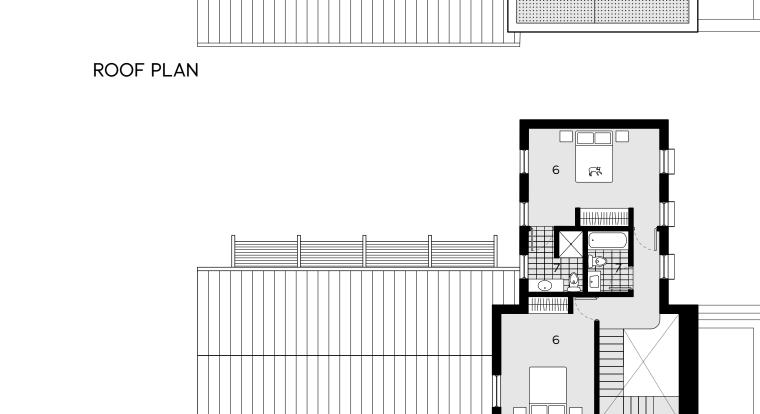
 TRIPLE PANE WINDOWS (FULL DEPTH CAVITY INSULATION)

TYPICAL EXTERIOR WALL ASSEMBLY:

- R-27.8 (PHPP CALCULATED) EIFS (EXERIOR INSULATED FINISH SYSTEM) W/ DRAINAGE
- » STUCCO FINISH
- » 3" SEMI-RIGID MINERAL WOOL INSULATION BOARD (R-12 CONTINUOUS)
- » INSULATION FASTENED TO WALL OVER DRAINAGE CHANNELS
- » FLUID APPLIED CONTINUOUS AIR/WATER CONTROL LAYER STRUCTURAL WALL
- » 1/2" PLYWOOD SHEATHING
- » 2X6 WOOD FRAMING @ 16" O.C. » 3-1/2" MINERAL WOOL BATT INSULATION (R-15)
- » 2" AIR CAVITY
- » INTERIOR FINISH
- UNDERSLAB VAPOR BARRIER WRAPPED CONTINUOUS UNDER FOOTING AND CONNECTED TO WALL CONTROL LAYERS AT STEM WALL

CONCRETE FOUNDATION AND STEM WALL:

» 2-1/2" RIGID MINERAL WOOL INSULATION BOARD, EACH SIDE (R-10 CONTINUOUS)



SECOND FLOOR

FIRST FLOOR



FLOOR PLAN

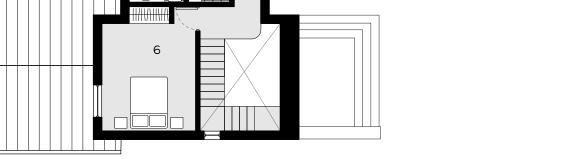
- 1. KITCHEN
- 2. DINING
- 3. LIVING
- 4. UTILITY CLOSET 5. OFFICE
- 6. BEDROOM
- 7. BATHROOM

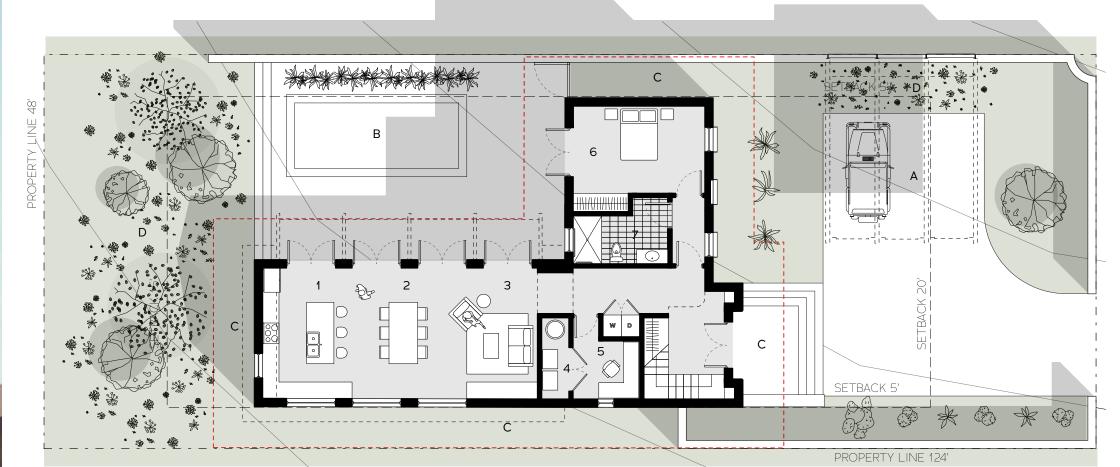
SITE DESIGN

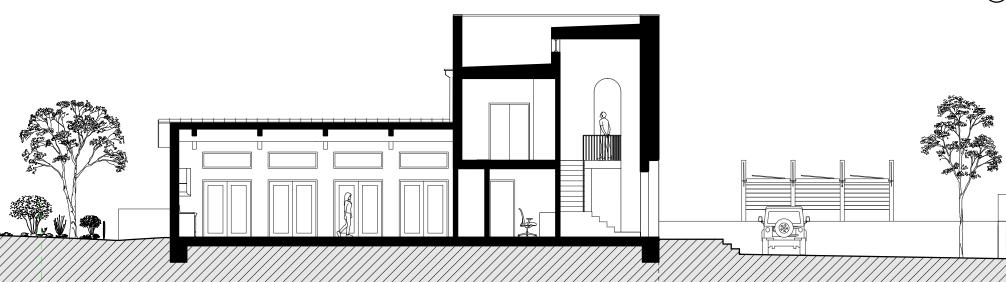
A. CARPORT

B. POOL

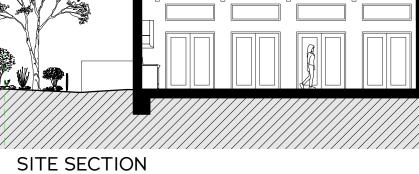
C. DEFENSIBLE SPACE D. GARDEN



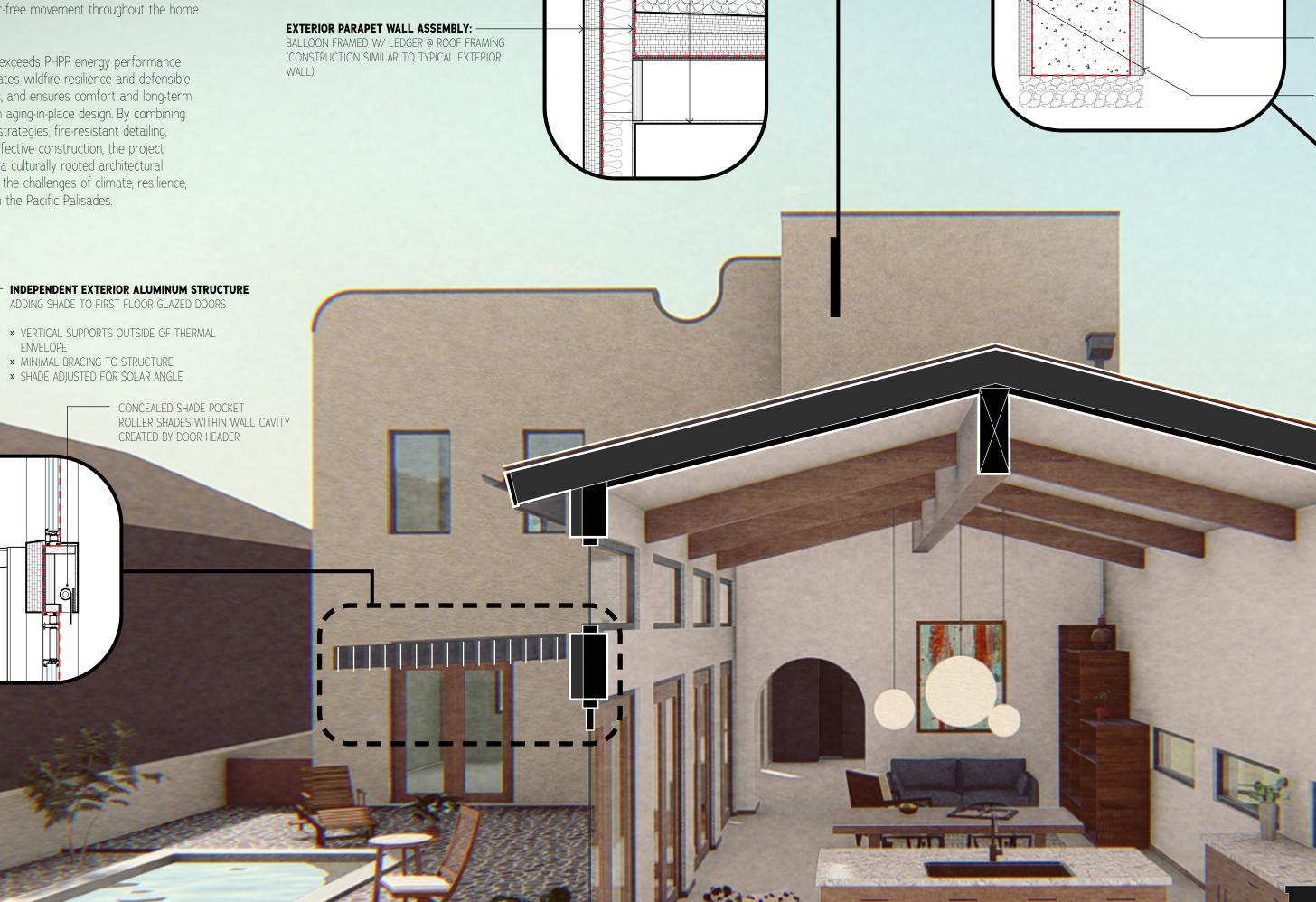












TYPICAL CONCRETE SLAB-ON-GRADE -

ASSEMBLY:

R-11.0 (PHPP CALCULATED)

» 4" CONCRETE SLAB-ON-GRADE

» 10MIL UNDERSLAB VAPOR BARRIER

» 2-1/2" RIGID MINERAL WOOL BOARD

» FREE-DRAINING COMPACTED STONE

PACIFIC PALISADES, LOS ANGELES, CA

TYPICAL 'FLAT' ROOF ASSEMBLY (UNVENTED):

» ROOF STONE BALLAST

WOOL BOARD

WOOL BOARD

» SINGLE-PLY ROOFING MEMBRANE

R-31.4 (PHPP CALCULATED - NOT INCLUDING TAPERED)

» TAPERED DUAL-DENSITY UNCOATED RIGID MINERAL

» BASE 4" HIGH-DENSITY UNCOATED RIGID MINERAL

» SELF-ADHERED VAPOR PERMEABLE AIR CONTROL

LAYER (WRAP CONTINUOUS UP PARAPET TO

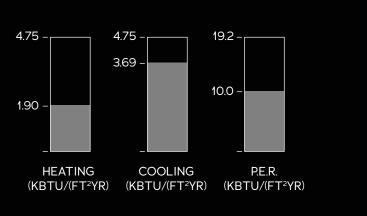
EXTERIOR WALL CONTROL LAYERS)

» 2X12 WOOD FRAMING @ 16" O.C.

» UNINSULATED CAVITY

» INTERIOR FINISH

» 3/4" EXTERIOR GRADE ROOF SHEATHING



PHPP SUMMARY

ELEVATIONS