

CASE STUDY 2.0

The Next Generation of Modern Modular Homes

A fire-resilient, modular home that combines off-site innovation, sustainable materials, and clean modern design to create a resilient and connected living environment.

OFFICE OF MOBILE DESIGN (OMD)

Founded and led by Jennifer Siegal, OMD is a leader in sustainable, modular, and off-site design, with nearly 30 years dedicated to reimagining how adaptable systems can shape future environments. Based in Venice and Ojai, California, OMD pioneers mobile and prefabricated strategies that address social and environmental challenges through the integration of industrial processes and site-sensitive innovation. The firm's work merges visionary thinking with technical precision, often ahead of its time and unconstrained by conventional limits, offering new possibilities for how people inhabit the built and natural environment.

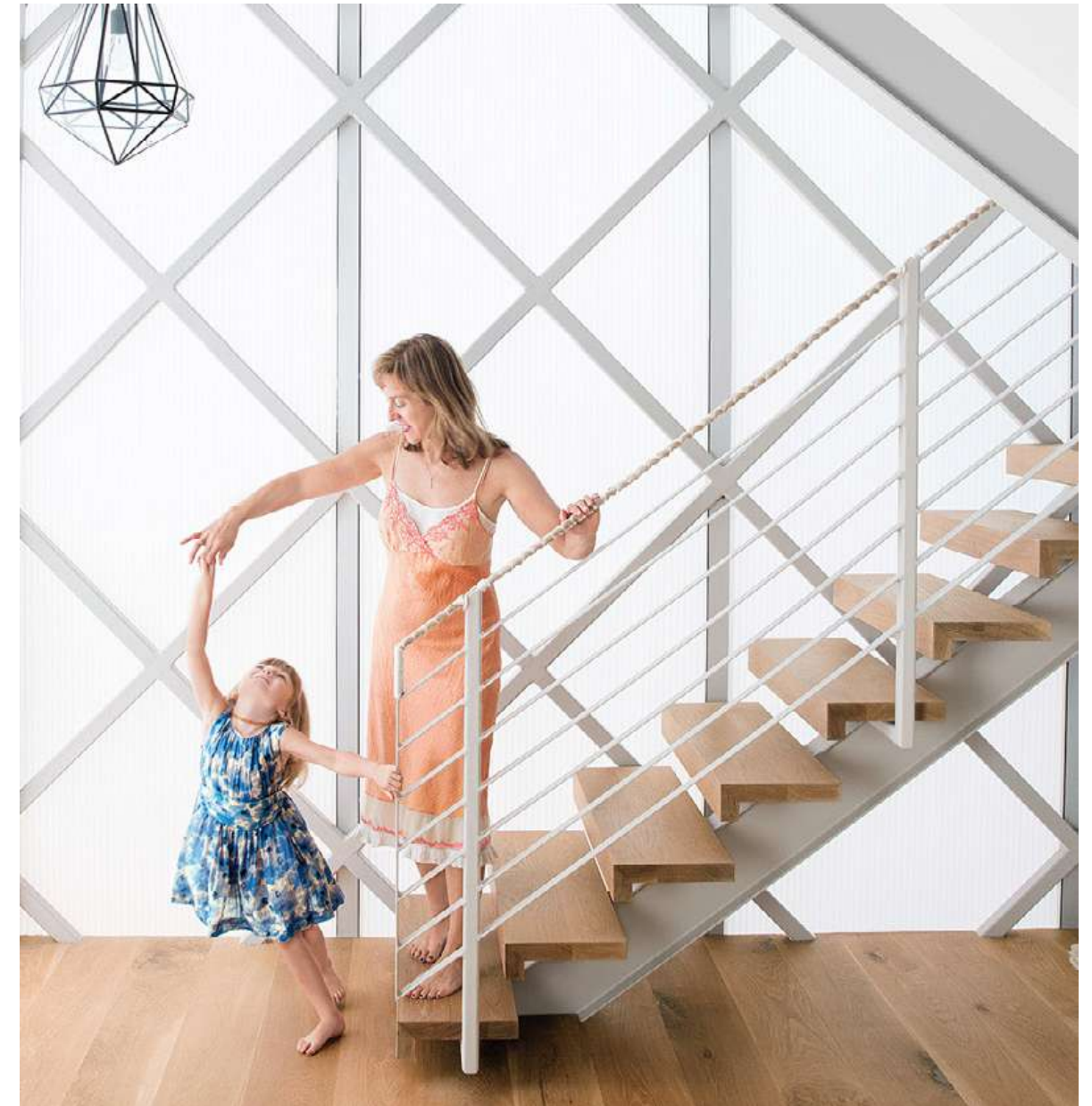
Under Siegal's leadership, OMD has achieved recognition for resilience-focused proposals in disaster recovery and community regeneration. The firm's speculative projects explore pressing social and environmental challenges while pushing the boundaries of what architecture can be before

realization. Siegal, as founder and CEO, was the first American woman to receive the International ArcVision Prize for Women in Architecture, highlighting the global impact of OMD's work.

OMD contributes to the discipline not only through its built and conceptual projects but also through publications authored by Siegal, including *Mobile: The Art of Portable Architecture*, *More Mobile: Portable Architecture for Today*, and *Materials Monthly* (editor and founder), all published by Princeton Architectural Press. The firm also fosters the next generation of innovators through initiatives such as the Ojai Design Posse, founded in 2023, which mentors women in the design fields. With a team that integrates technical rigor, creative exploration, and social responsibility, OMD continues to redefine the possibilities of adaptive, resilient, and context-responsive architecture.

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Pictured: Jennifer Siegal & her daughter in their modular house in Venice, CA, as featured in Dwell, December 2016

PALISADES 2.0:

The Next Generation of Modern Modular Homes



Jennifer Siegal's Office of Mobile Design presents Palisades 2.0, a reimagining of modular living that prioritizes resilience, efficiency, and architectural clarity. Building on lessons from New England Shaker simplicity and functionalism, Palisades 2.0 demonstrates how modular construction can achieve both precision and warmth, combining advanced fabrication techniques with thoughtful site engagement.

WHY MODULAR?



Modularity without compromise is the defining feature of Palisades 2.0 and OMD's design strategy.

Modular design allows for streamlined permitting, faster installation times, and sustainable constructions by combining the best of onsite and offsite construction methods. It also allows for greater precision, ensuring clean lines and a contemporary feel without compromising the personal touches that make a house feel like a home.

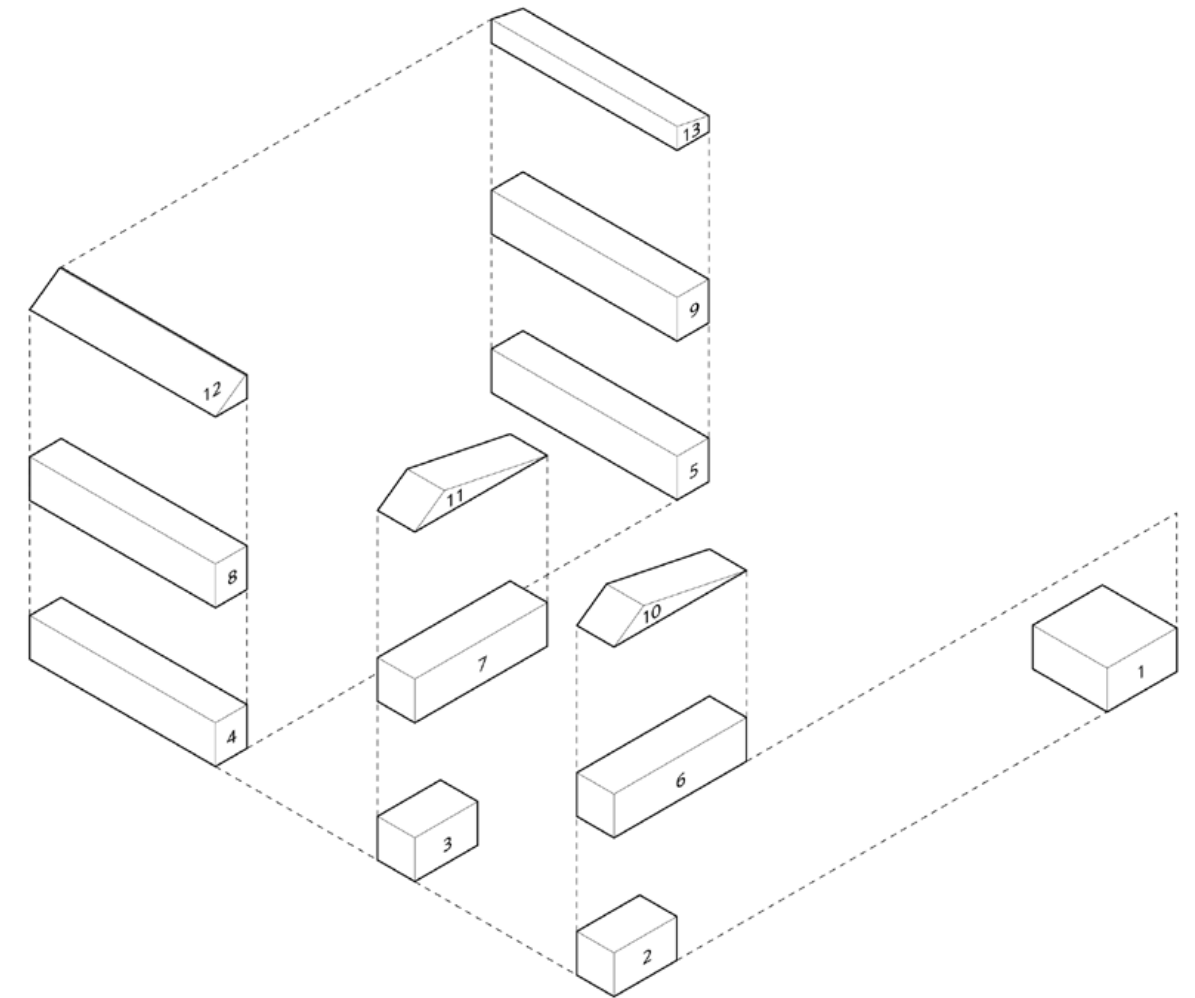


Diagram of the modular components of a 4,000 square foot home with 5 bedrooms, 4 bathrooms, made of 12 prefabricated modules plus a site-built 2-car garage.

HAND-CRAFT MEETS PRECISION-CRAFT



DESIGN CONCEPT

At the heart of Palisades 2.0 is a commitment to modularity without compromise. Each module is prefabricated off-site for precision and quality control, then delivered and assembled on-site, reducing construction waste and minimizing environmental impact. The design emphasizes clean lines, generous daylighting, and flexible interior layouts that respond to changing household needs.

Drawing inspiration from Shaker principles, the home prioritizes functional simplicity, durable materials, and intuitive spatial organization. The exterior employs fire-resistant cladding and low-maintenance finishes, ensuring long-term performance and peace of mind in a region prone to wildfires.

MATERIAL STRATEGY

Sustainability and resilience guided the material palette. Engineered wood, steel, and high-performance glazing work in tandem to create a durable envelope. Interior finishes are carefully selected for longevity, low VOC emissions, and aesthetic warmth, demonstrating that environmental responsibility and design excellence are not mutually exclusive.

INNOVATION FOR FIRE-PRONE AREAS



SITE INTEGRATION

Palisades 2.0 responds directly to its landscape context, leveraging natural topography, prevailing winds, and sun orientation. Outdoor spaces are framed as extensions of the living environment, creating a strong connection between interior and exterior while maximizing energy efficiency and comfort.

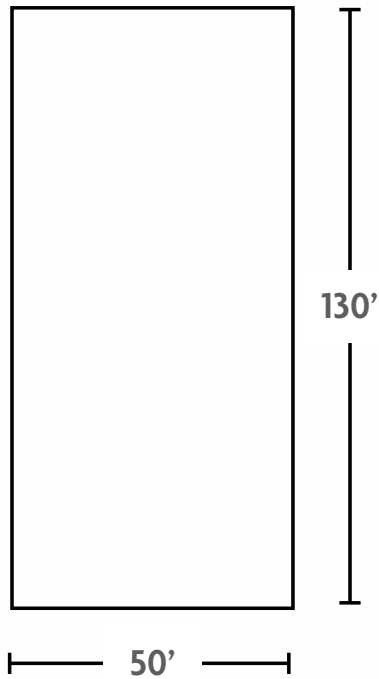
INNOVATION & RESILIENCE

Fire resilience is embedded in every aspect of the design, from exterior materials to strategic setbacks and defensible landscaping. Modular construction reduces on-site risk, accelerates delivery, and allows for easier maintenance or expansion. Palisades 2.0 demonstrates that modular homes can be both agile and enduring, proving that resilience and modern design can coexist seamlessly.

IMPACT & FUTURE POTENTIAL

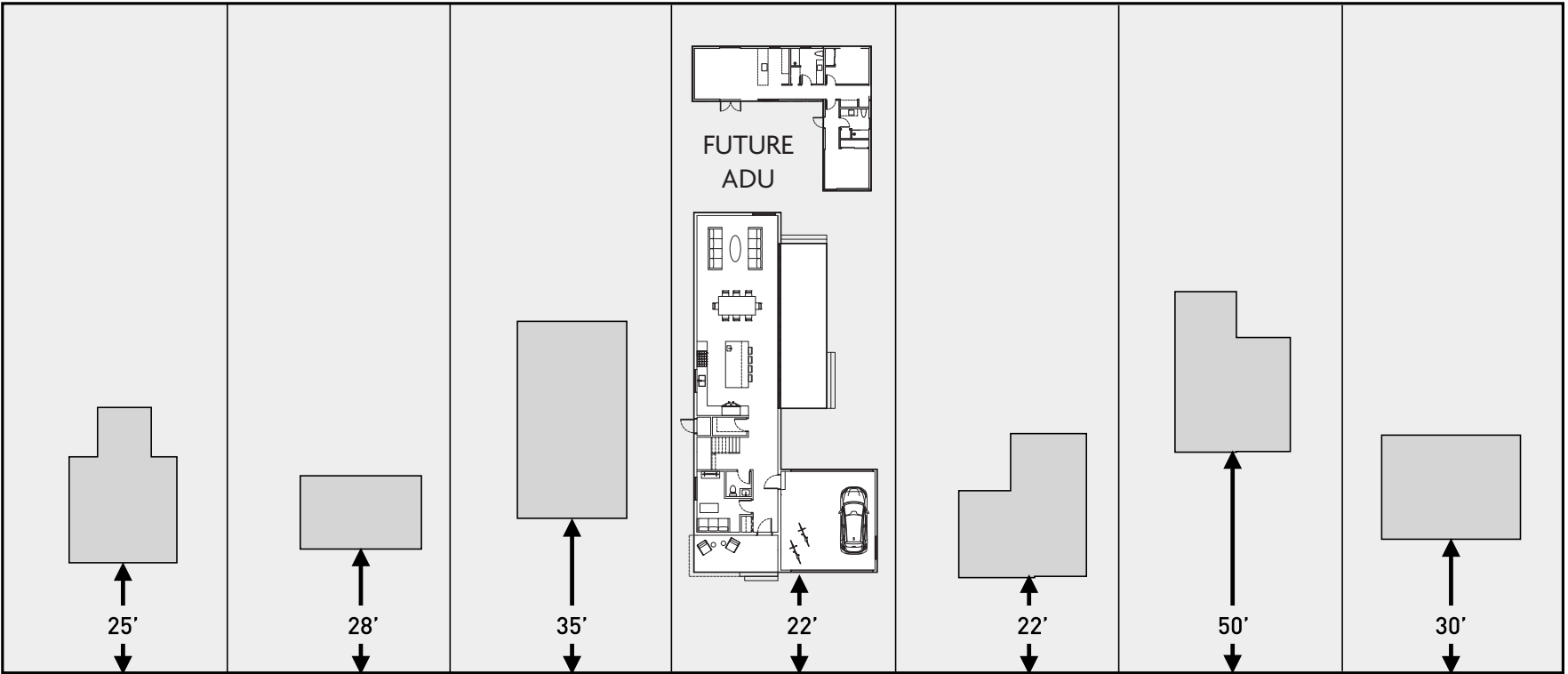
Palisades 2.0 exemplifies the next generation of modular architecture: adaptable, sustainable, and deeply attuned to both human needs and environmental conditions. This project opens new possibilities for how people inhabit the built and natural environment, setting a benchmark for future modular projects in fire-prone and ecologically sensitive regions.

SITE INFORMATION



PARCEL / LOT INFORMATION

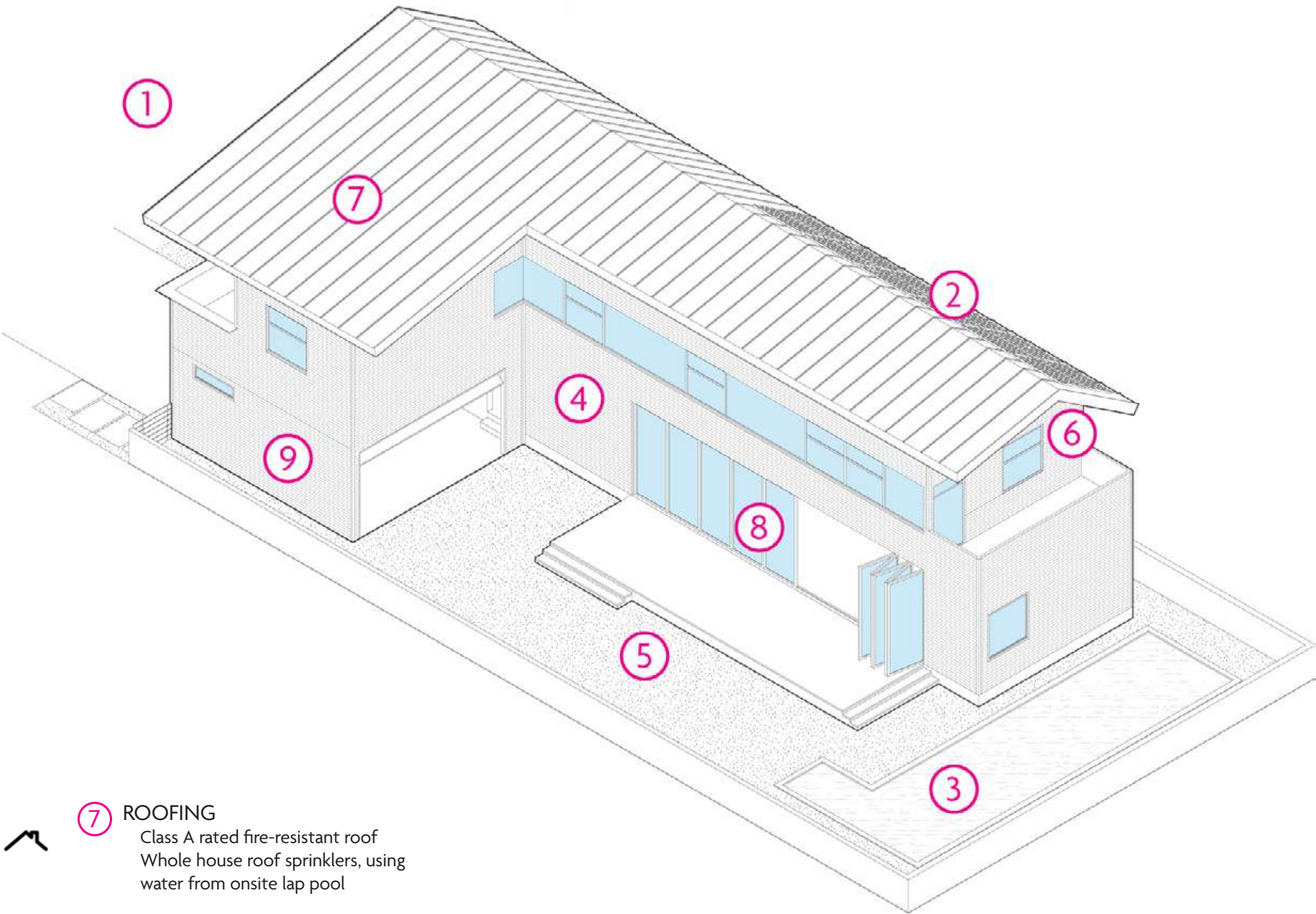
ADDRESS: TBD
ZONE: R1-V1
APN: 4423011017
LOT AREA: 6,500 SF



DESIGN FEATURES

Designed by Jennifer Siegal's Office of Mobile Design for the Case Study 2.0 Fire Rebuild Program, the Palisades house embodies resilience, innovation, and fire-resistance. A reconstruction and re-imagination, it employs modular, off-site fabrication, sustainable materials, and house-hardening strategies—such as fire-resistant cladding, defensible-site planning, and emberprotected detailing—to enhance safety and adaptability. With clean geometry,

an open plan, and a seamless connection to the landscape, it reasserts the Palisades as a site of architectural exploration. Building on the experimental ethos of the original Case Study Houses, launched in 1945 by Arts & Architecture magazine under John Entenza, the project continues the legacy of using modern materials and techniques to create high-quality housing suited to contemporary challenges.



- 1 MODULAR CONSTRUCTION**
Faster installation times
Streamlined permitting
Exceeds seismic standards



- 2 SUSTAINABILITY**
Solar panels and battery array
Recycleable facade material
Natural cross-ventilation



- 3 FIRE RESISTANCE**
Lap pool as emergency reservoir
Private emergency generator



- 4 EFFICIENCY**
Insulation exceeds Title 24
Energy Recovery Ventilator
Low-E glazing coatings



- 5 DEFENSIBLE SPACE**
Decomposed granite yard
Drought and fire resistant planting
5' perimeter of defensible space



- 6 VENTS**
Sealed wildland-urban interface approved vents
Intumescent coating stops ember intrusion



- 7 ROOFING**
Class A rated fire-resistant roof
Whole house roof sprinklers, using water from onsite lap pool



- 8 WINDOWS AND DOORS**
High-performance dual-glazed tempered glass
Thermally broken aluminum casing



- 9 SIDING**
Wildland-Urban Interface approved Class A thermally treated lumber
Harvested with sustainable practices

An architectural rendering of a modern, two-story house. The house features a prominent cantilevered roof with a dark brown underside. The exterior walls are clad in light-colored horizontal siding. A large, multi-paned window is visible on the second floor. The ground floor has a recessed front porch with vertical wood slat walls and a dark door. A man and a child are standing on the porch. To the right of the porch is a two-car garage. The house is set on a green lawn with some trees and a sidewalk. A low concrete wall with the address number '6031' is in the foreground. The sky is blue with some clouds.

Ventless cantilevered roof, structurally engineered with steel and integrated into the factory-built modules, supplies exterior water sprinklers, natural shading from the sun, and protection against flying embers.

Framed front porch provides community resourcing, neighborhood connection, and public safety for a community recovering from trauma.

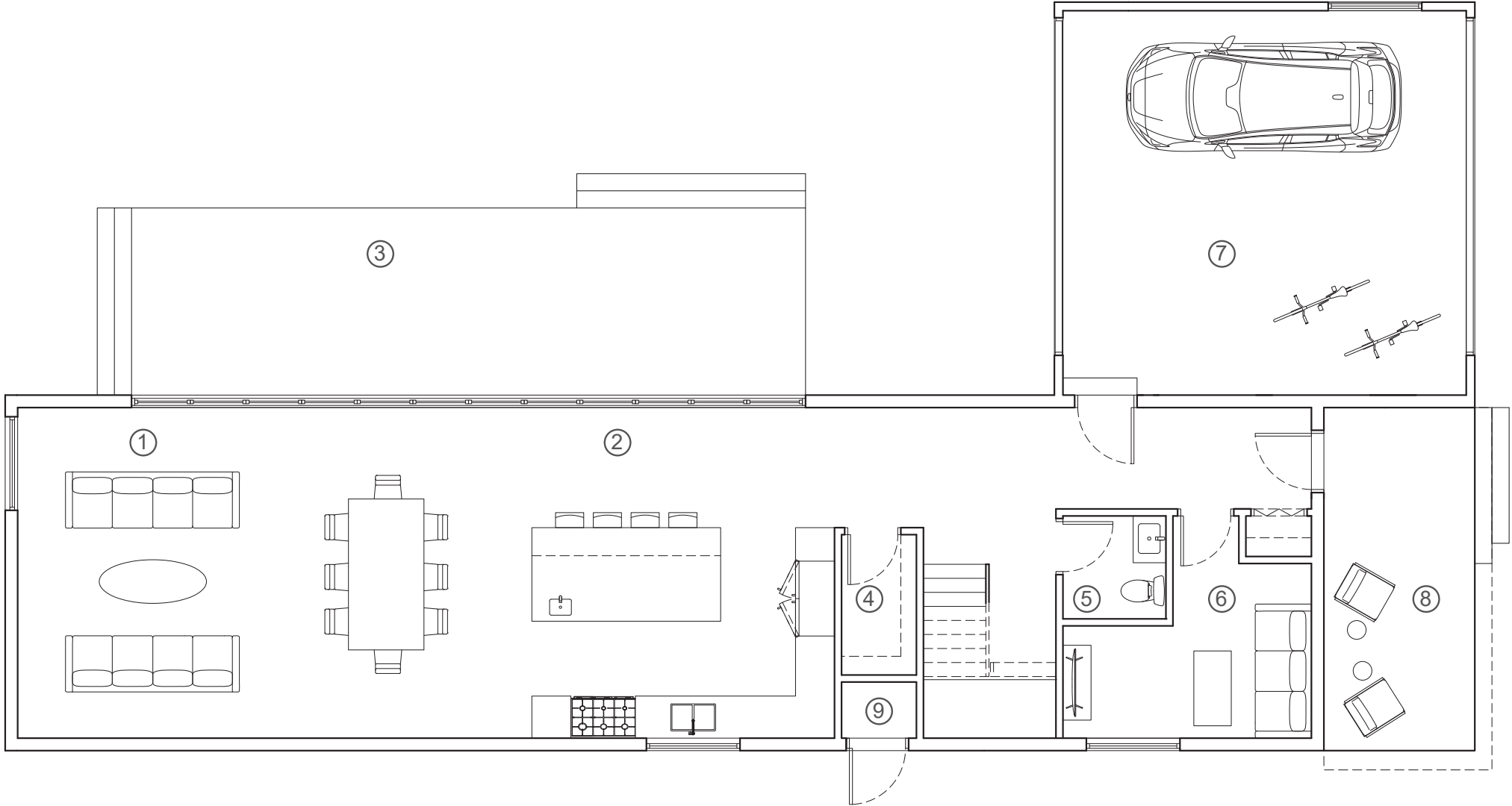


Siding is Wildland-Urban Interface approved, Class A thermally treated lumber, sustainably harvested.

Low-E glazing, solar panels, and natural cross-ventilation keep energy costs down and contribute to a sustainable design.

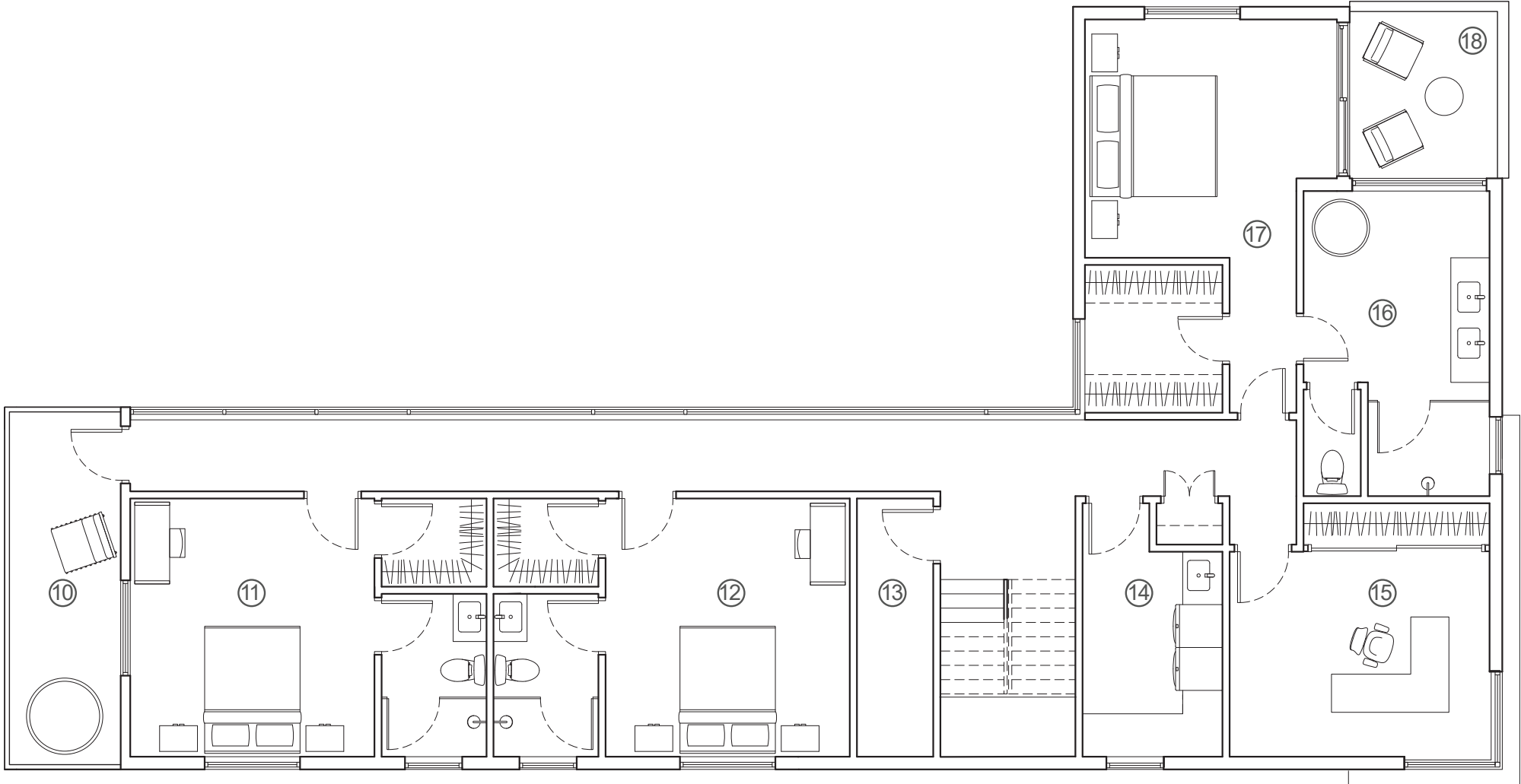
Swimming pool serves as a critical fire safety resource, acting as an emergency reservoir to supply roof and ground-level sprinklers, supported by an autonomous generator to ensure reliable operation when needed.

GROUND LEVEL PLAN



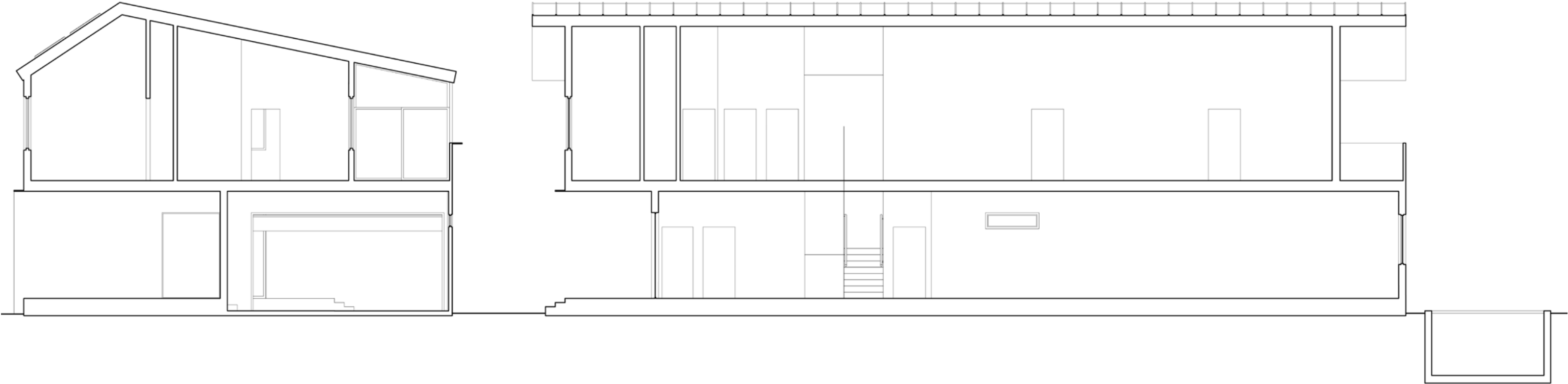
- ① Living/Dining Room
- ② Kitchen
- ③ Deck
- ④ Pantry
- ⑤ Half-Bath
- ⑥ Media Room/Future Bedroom
- ⑦ Pass-Through Garage
- ⑧ Porch
- ⑨ Utility Room

SECOND LEVEL PLAN



- ⑩ Balcony
- ⑪ Bedroom
- ⑫ Bedroom
- ⑬ Storage
- ⑭ Laundry
- ⑮ Office/Future Bedroom
- ⑯ Primary Bath
- ⑰ Primary Suite
- ⑱ Primary Balcony

SECTIONS



ELEVATIONS 1 & 2



ELEVATIONS 3 & 4

