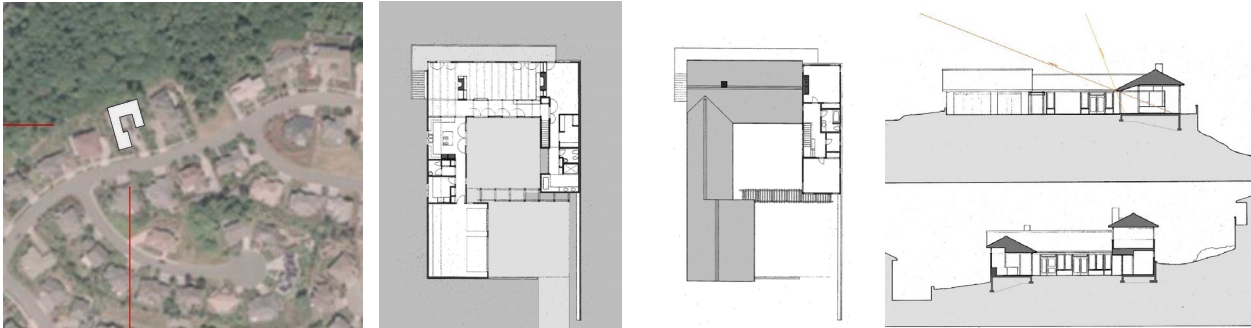


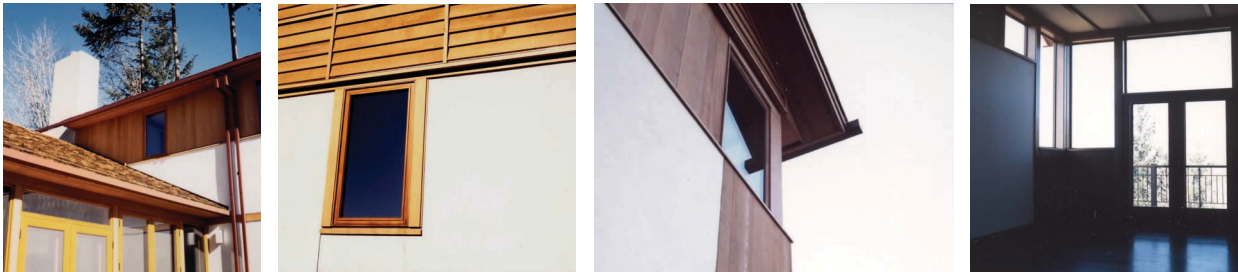


Forest Heights Residence, Portland OR
John Cava Architect - Brent Hinrichs, Associated Project Architect



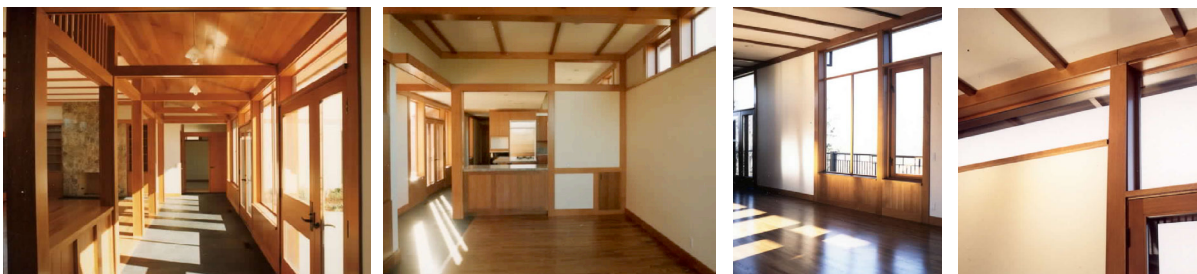
SITE & PROGRAM

The building site is along a ridge above the wooded hillside of a steeply sloped ravine and conservation zone to the north. To provide some outdoor private space in this development a courtyard plan was developed. The main public and private living areas of the residence are all on one level, with the guest bedrooms upstairs at the eastern section of the building complex.



MATERIALS & CONSTRUCTION

Due to the site section the foundation system is a combination of perimeter and retaining walls that also extend from the building as landscape walls. There are pier footings of reinforced concrete at column point loads. The platform framed floor system is of engineered I-section wood joists, and light wood trusses are used for the roof framing. The wall framing is of standard 2x6 lumber at 16" spacing within the layout of a 32" planning module, engineered wood sections are used for the larger structural spans. The trellis, interior columns and the deck columns are all of exposed timber.



The exterior is a cement stucco wall finish, with areas of rough-sawn cedar trim and siding at the upper levels and gables. The roofing shakes are sawn cedar; the gutters and flashings are painted steel. All the doors and windows are built of clear finished Douglas Fir, as is the interior trim and panels. The walls and ceilings are of painted gypsum-board. Oak flooring is used in the Living and Dining rooms, with slate adjacent to the courtyard glazing, and the granite slabs of the courtyard surface act as a solar heated thermal mass to temper ambient temperature - allowing the courtyard doors to remain open during some seasons. The natural gas fired furnace provides for forced air heat and the domestic hot water.