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Will Bruder Architects

Sky Arc House Marin County, California, USA

595 square metres (6,400 square feet)

Project Team Will Bruder, Ben Nesbeitt, Eric Weber, Dominique Price, John Puhr, Jeff Densic, Rob Gaspard, Michael Crooks, Tom Cheney, Joe Herzog, Richard Jensen, Katie Jones, Dwayne Smyth, Troy Strange, Greg Packham

Structural Engineer Rudow + Berry, Inc

Main Contractor Van Acker Construction Associates

This house is located on a forested hillside with dramatic views to the bay and Mount Tamalpais. The steep eastern part of the site was chosen for a new residence for a young family, while the western part accommodates a play area and garden, as well as a recording studio. An open-air stair links the residence through a tunnel under the driveway. The simple volumes, clad in pre-weathered pewter-grey zinc, recede into the texture of the landscape, with vertical standing seams in the cladding. The glazing is 'solex green' for visual harmony with the landscape, with operable windows in mahogany, and in lieu of overhangs, shade is provided by translucent fibreglass awnings.

The process of arrival begins as the driveway widens into a forecourt of ripple-textured concrete. A rhythm of translucent slots lead to the entryway, where the warm glow of a resin lantern-wall indicates the timber entry door. Children's bedrooms and a modest guest suite with bay views are located on the entry level. A switchback stair leads down to the main living level where expansive panoramas of the bay and mountains are revealed. Outwardly, the room expands seamlessly through glass and sliding partitions to a timber deck and lawn terrace. From the living room, the gallery tunnel connects to the garden stair and then to the studio. The studio and control room are shaped by acoustic considerations, their volumes sized and tuned for quality of sound, and built of in-situ concrete to minimize sound transmission.





1 Backing onto a steep hillside, the house curves with the topography to embrace dramatic views of the forest

of the facades is reinforced by standing seam zinc cladding, interrupted with slots of glazing to take in the 3 The south-east

facade is shaded by

awnings.

4 The music studio echoes the form of the house, tucked away to the west of the house,

and connected to it via a tunnel that also acts

as a gallery.

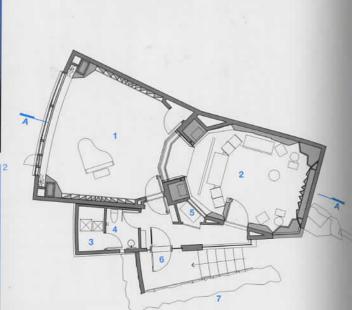
5 View of the main entry where a wall of resin glows in











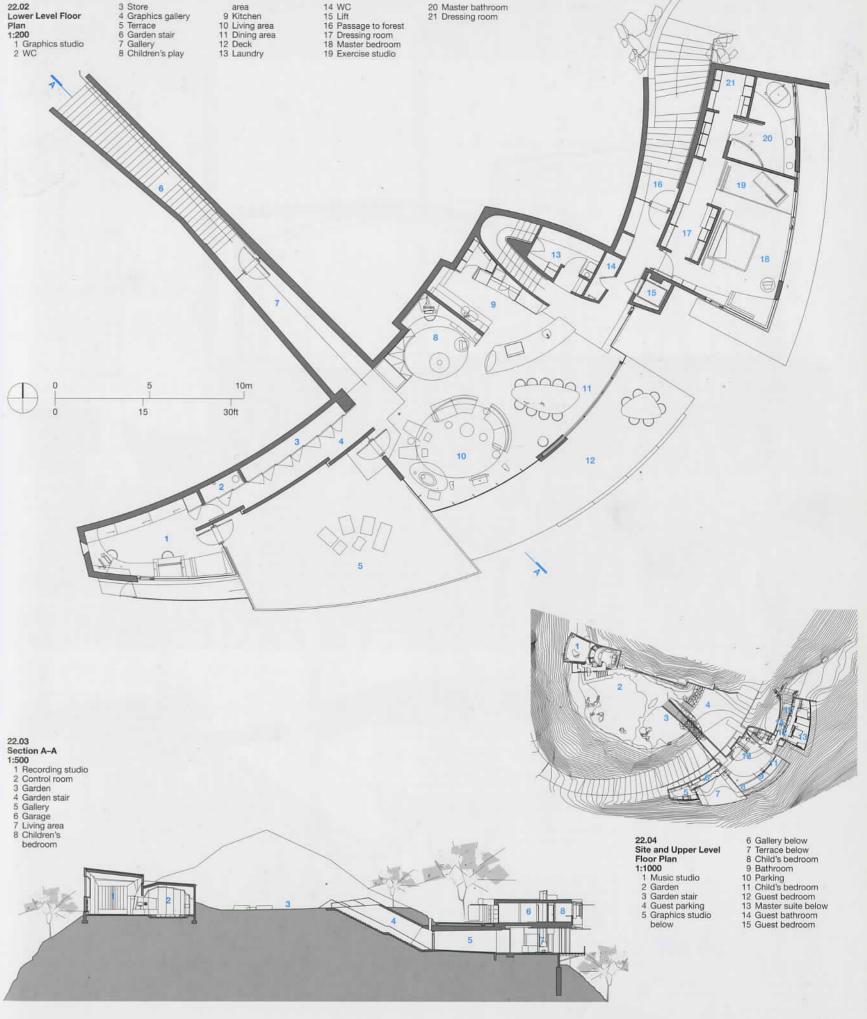
22.01 Studio Floor Plan 1:200

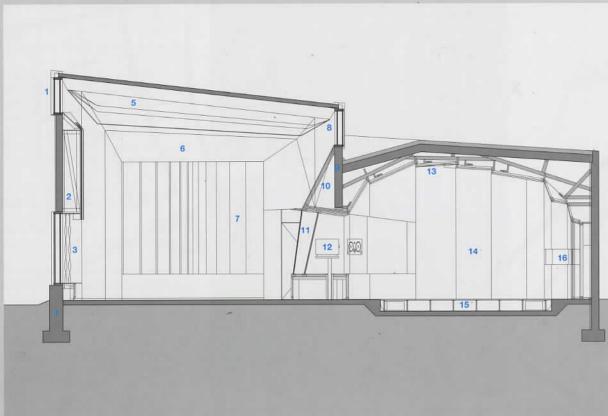
1 Recording studio 2 Control room 3 Utility and store

5 Machine room 6 Entry 7 Garden









22.05 Studio Section 1:100

1 Timber window and zinc flashing assembly 2 Gypsum board over 50 x 100 mm (2 x 4 inch) timber framed acoustic reflector 3 Insulated timber frame window assembly with laminated solex glazing 4 Reinforced

5 Gypsum board over 50×100 mm (2 x 4 inch) timber framed acoustic reflector acoustic reflector 6 Gypsum board over 50 x 100 mm (2 x 4

7 50 mm (2 inch) rigid insulation soak panel on timber frame 8 Timber window and zinc flashing assembly 9 Reinforced concrete wall 10 Gypsum board over

11 Laminated glass acoustic glazing assembly 12 Removeable aluminium centre

speaker 13 50 mm (2 inch) rigid insulation soak panel on timber frame 14 50 mm (2 inch) rigid insulation soak pane on timber frame

15 Acoustically

isolated raised access floor and plenum 16 Translucent laminated glazing over internal lighting (clear laminated glazing to

adhered membrane 2 100 mm (4 inch) rigid insulation board 3 Concrete roof deck 4 Timber window and zinc flashing assembly 5 Gypsum board to be flush with removeable stop to facilitate glazing replacement

1 Class A fully

22.06 Studio Wall Section 6 Gypsum board on timber frame acoustical reflector 7 Flat seam zinc

glazing

flashing 8 Gypsum board on timber frame acoustical reflector 9 Return finish at edge 10 Insulated timberwindow assembly with laminated solex

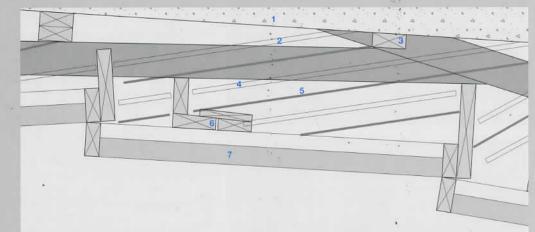
* 1

11 Stainless steel plate with non-directional finish on plywood substrate and support

21

frame 12 Rigid fibreglass soak panel with glued cloth covering on timber frame 13 Recessed aluminium base 14 Aggregate base 15 100 mm (4 inch) 16 50 mm (2 inch) rigid 18 Reinforced concrete wall 19 Composite

perimeter drain 20 Mortar wash 21 Reinforced concrete foundation



Control Room Ceiling Detail

1:10 1 Reinforced concrete roof 2 50 x 100 mm (2 x 4 inch) timber acoustic panel framing beyond 3 50 x 100 mm (2 x 4 inch) timber nailer with 'tapcon' anchors at

405 mm (16 inch) centres 4 Alternating layers of

4 Alternating layers of 12 mm (1/2 inch) sound deadening board and batt insulation to fill cavity completely 5 Alternating layers of 12 mm (1/2 inch) sound deadening board and batt insulation to fill cavity completely

6 Taper cut timber panel support clips 7 50 mm (2 inch) rigid insulation soak panel on timber frame

22.08 Window Head at Control Room View Portal Detail

1 Stainless steel angle with polished 2 Stainless steel head

plate with non-uniform

finish to both faces and polished edge

4 Completely filled cavity with acoustic caulk airtight seal 5 Veneer plaster over gypsum board
6 50 x 100 mm (2 x 4 inch) timber reflector

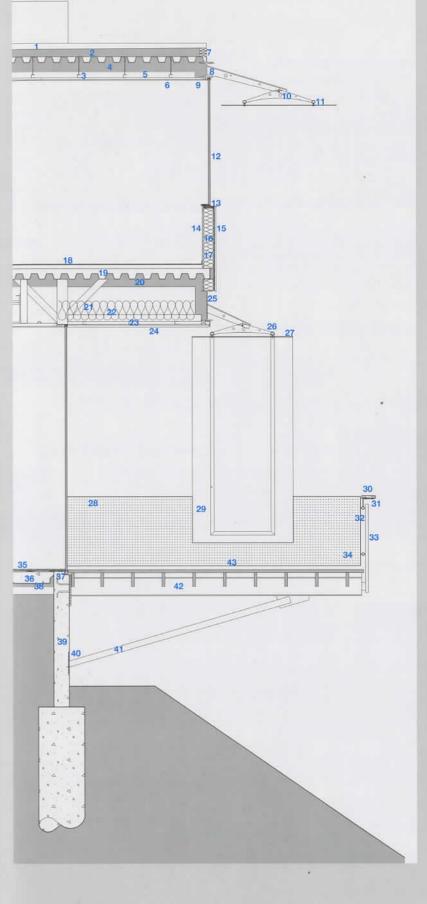
on timber frame
11 19 mm (3/4 inch) plywood portal head panel framing 7 19 mm (3/4 inch)

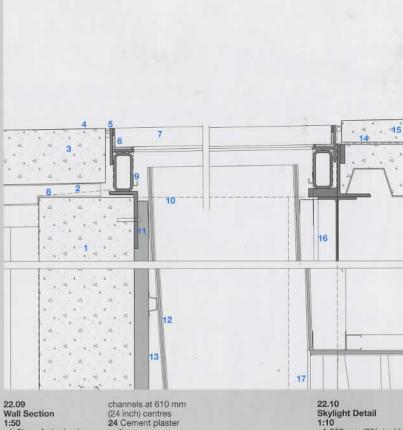
3 38 mm (11/2 inch)

plywood head plate

laminated glazing 8 Fabric wrapped 9 Galvanized Z-clip soak panel support 10 76 mm (3 inch) rigid insulation soak panel plywood portal head assembly to 76 mm (3 inch) total thickness

12 25 mm (1 inch)





Wall Section 1 Class A single ply membrane roof 2 Tapered roof

610 mm (24 inch) centres 4 Spray on foam 5 Hat channels at 610 mm (24 inch) centres 6 12 mm (1/2 inch) gypsum board ceiling 7 Flat lock zinc fascia 8 Beam with mill

markings concealed on inside of beam 9 22 mm (7/s inch) hat channel welded to bottom flange of beam 10 Steel bracket arm and continuous pipe 11 9 mm (3/8 inch) thick translucent fibreglass awning 12 Insulated glazing 13 Sill flashing 14 Gypsum board wall 15 Standing seam zinc cladding over air infiltration barrier on plywood sheathing 16 Metal framing 17 Foil faced batt 38 Rigid insulation board and vapour 39 Concrete stem wall 40 Embedded steel insulation with foll tape

18 Carpet 19 Topping slab with radiant heat system plate 41 Steel strut 42 Steel beam 20 Spray-on foam 21 Batt insulation 22 Metal framing 23 Metal furring

25 Steel beam with mill markings concealed on inside of beam 26 Steel bracket arm and continuous pipe

27 10 mm (3/8 inch) thick translucent fibreglass awning 28 Perforated stainless steel guardrail beyond 29 Fibreglass vertical panel beyond 30 Cedar handrail fixed to steel angle with stainless steel wood screws 31 Steel angle welded to pipe rail 32 Steel pipe rail with steel spacers 33 Steel pipe 34 Perforated stainless steel plate with sandblast finish 35 Hardwood flooring over asphalt primer 36 Concrete slab with radiant heating system 37 Pressure treated sleepers set in mastic

43 Timber decking on timber joists

reinforced concrete shoring wall

2 Steel bearing plate beyond and behind, weld to pipe

3 Steel drainage pipe to trench drain beyond 4 Concrete driveway 5 Silicon sealant to completely fill joint 6 Continuous neoprene shim spacer 7 Fibreglass panel 8 Waterproofing tack welded to tube 10 Line of concrete beyond 11 Steel anchors with paint finish
12 Gypsum board
13 Z-furring channels
with rigid insulation
14 Waterproof membrane
15 Concrete topping
16 Steel stiffener plate
17 Glass at kitchen

and line of casework

beyond

1 250 mm (93/4 inch)

101 100