

The Ruskin House

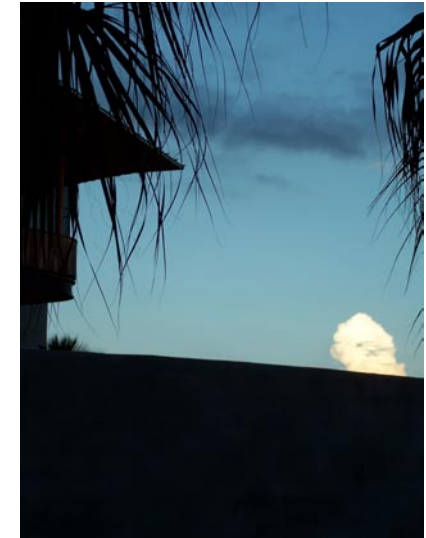


Mike Calvino Architect Builder
With Additional Text by Mark Cox
Introduction by

This book is meant to re-assemble a series of events and thoughts that occurred over a segment of time in which a place, an event, an experience was produced. The cyclical process that is at the same time linear by which the creative process happens becomes fleeting and somewhat obscured to the maker at times. It is to this phenomenon that this set of images and writings is given. The process by which something is produced can sometimes be a teaching tool to its owner and, one can only hope, to others as well. Furthermore in the retrospective act of re-assembling the means by which something has been created, the processes, ideas & solutions that have been digested may be sort of re-packaged & catalogued into the library of intuition, the bank of technical knowledge and skills that one owns and build one's ability to create more complex places and solutions in simpler, more powerful ways.

The intent of the 3 sections of this presentation is to first offer a series of images by which one may see and begin to feel moments of the place, details which are at once tactile and tectonic while remaining grounded to the place. This series of details will hopefully provide a basis for one to view the overall place consisting of space, object, time & context. The second section offers a series of moments that are about the act of producing a built form, they are design and construction images which attempt to capture moments that involve innovation, endurance, design, vision, craft, and finally an attempt at the possible poetry of the overall event. Finally, the third section of images reveals the place as a series of spaces & views of a completed building, a backdrop for life & its birth as a place of dwelling as the owner begins to bring life to it.

The Ruskin House



Cover photo background: Detail of Driveway, Concrete pavers from broken up driveways, sidewalks, & golf cart trails.

Above: view to the east over the driveway.



The Ruskin House

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Bibliography

Architect	Mike Calvino, CALVINO architcture studio
Owner	Stanley Woodruff
Foundation design Contractor	Dixon Engineering Mike Calvino, CALVINO architecture studio

View to the east at the front door with the solid brass ship's bell.



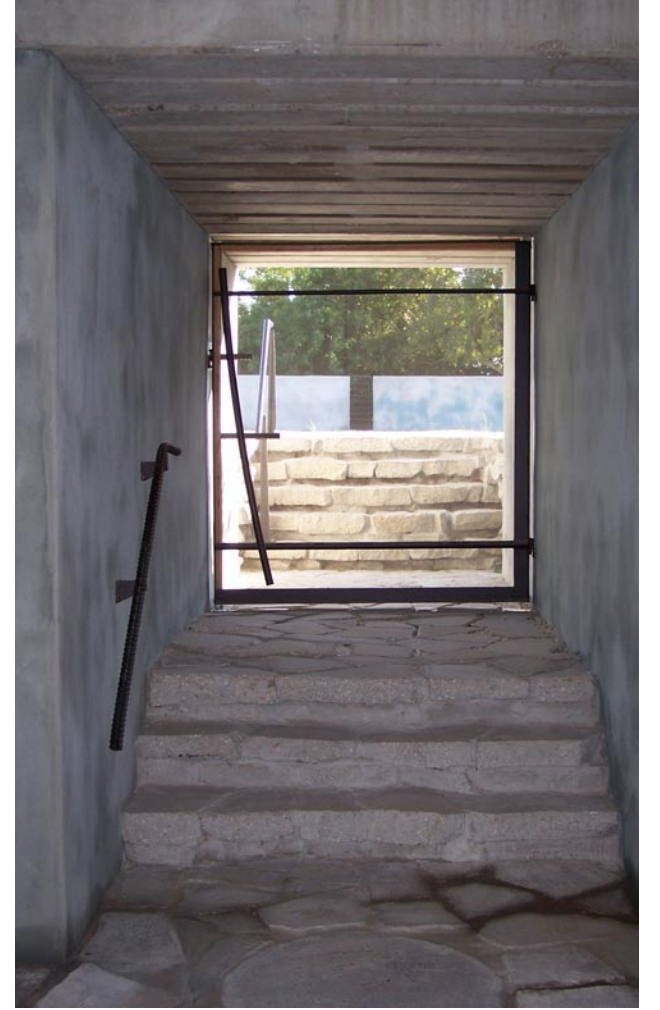


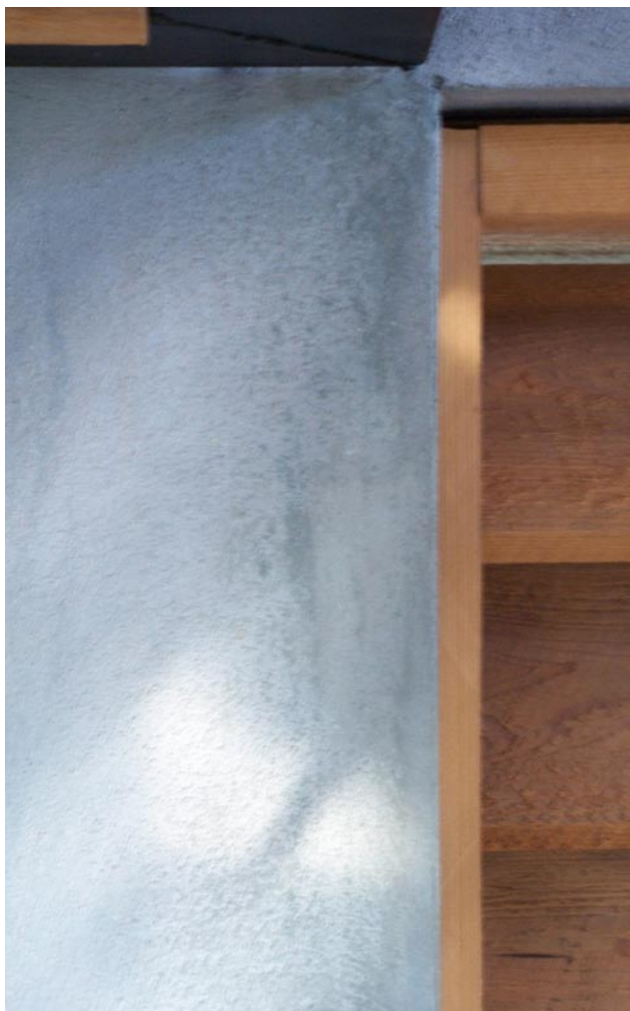
Travertine shelves embeded in master shower wall



View from ground level up through glass floor at entry

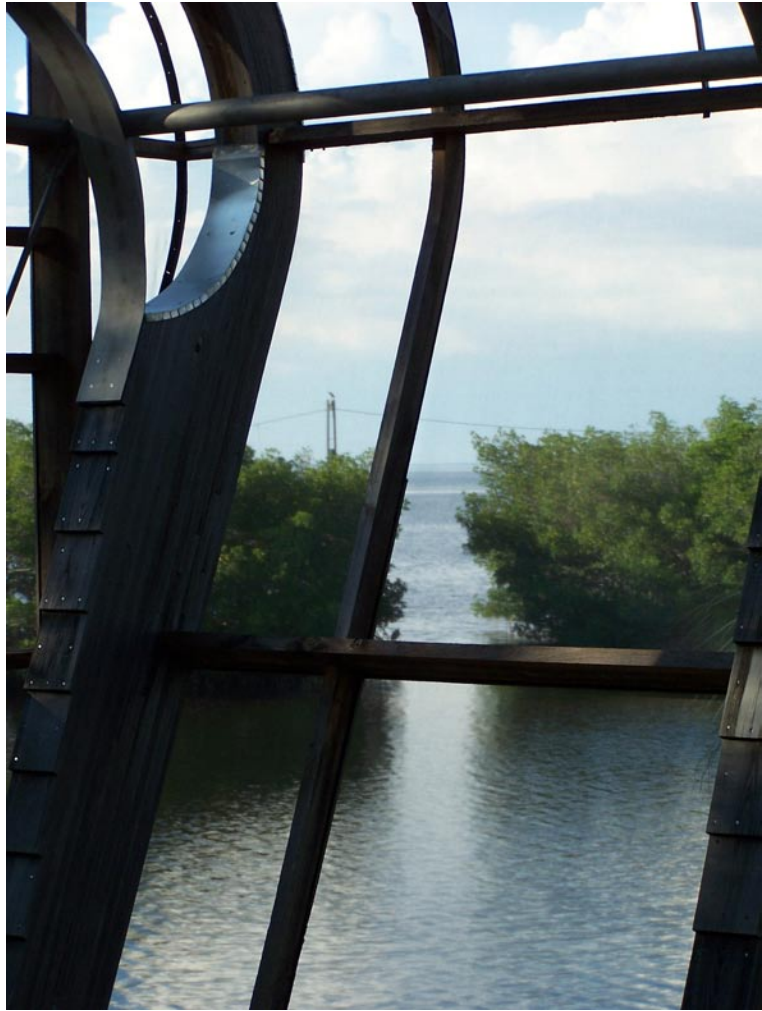


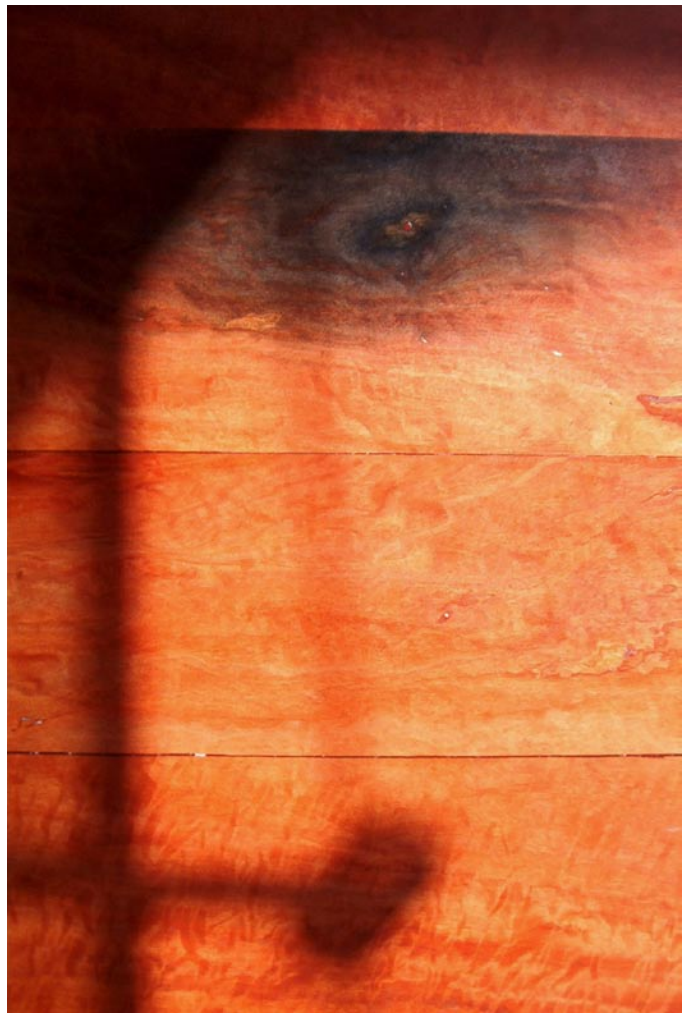


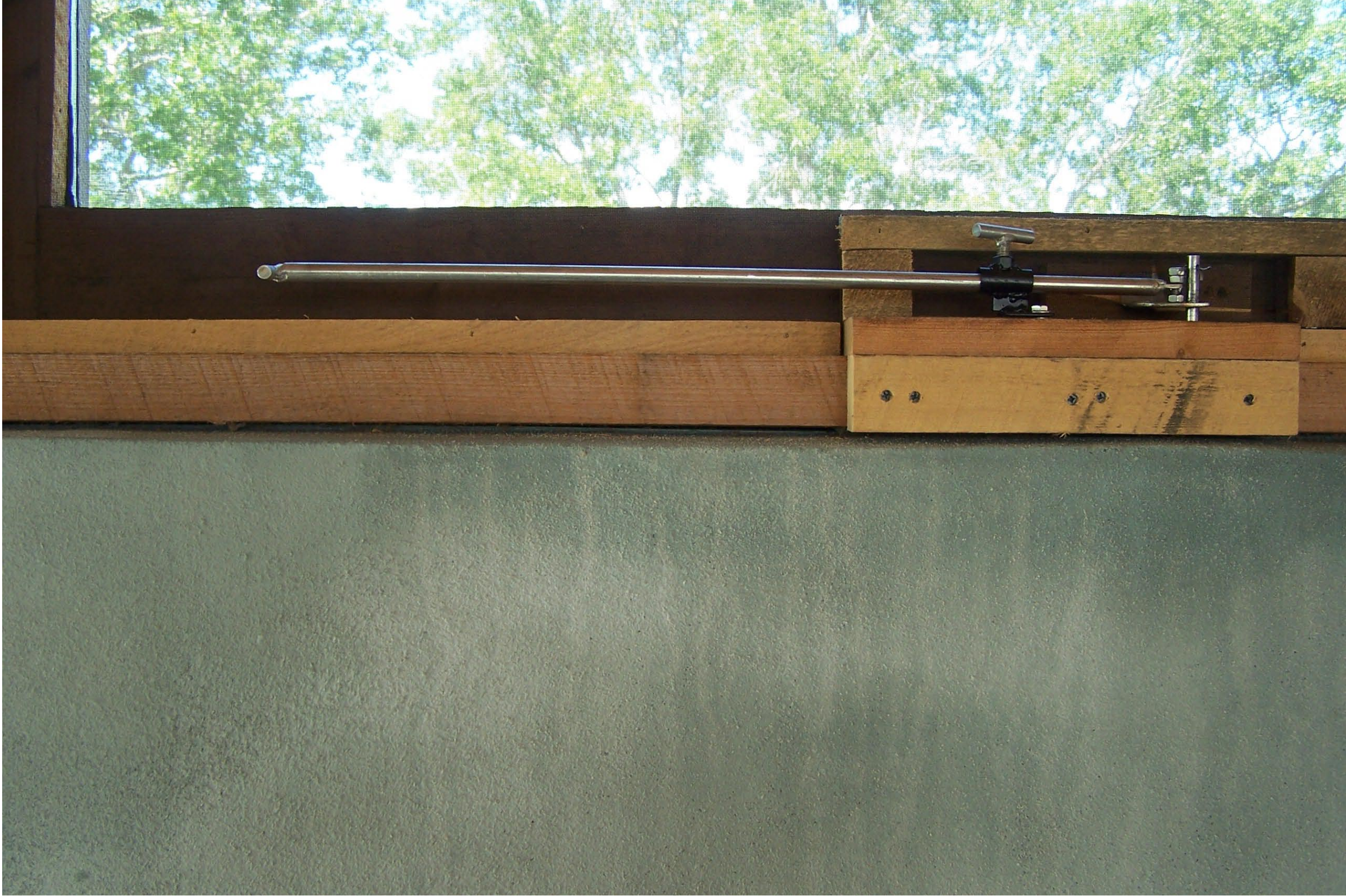






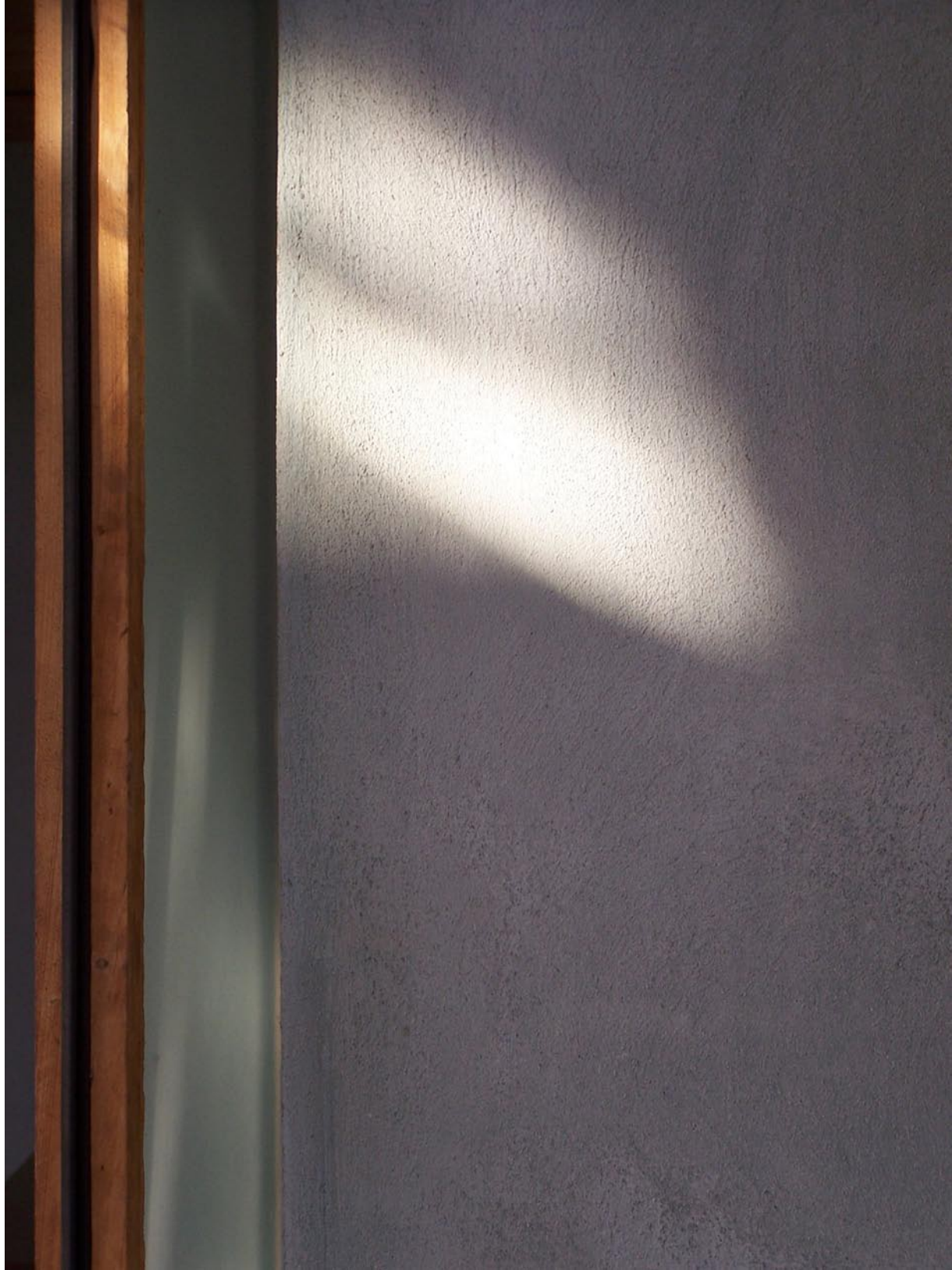




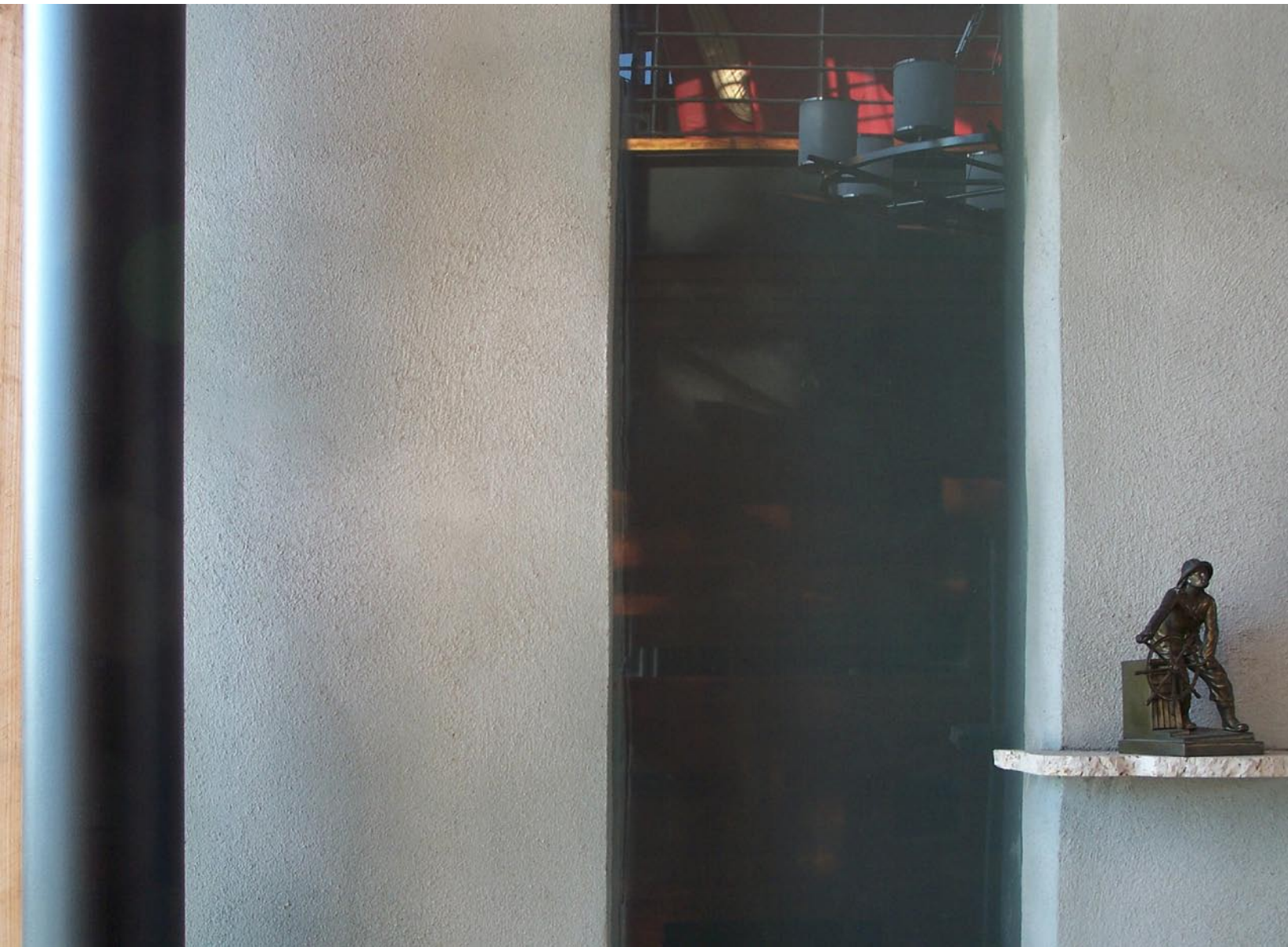






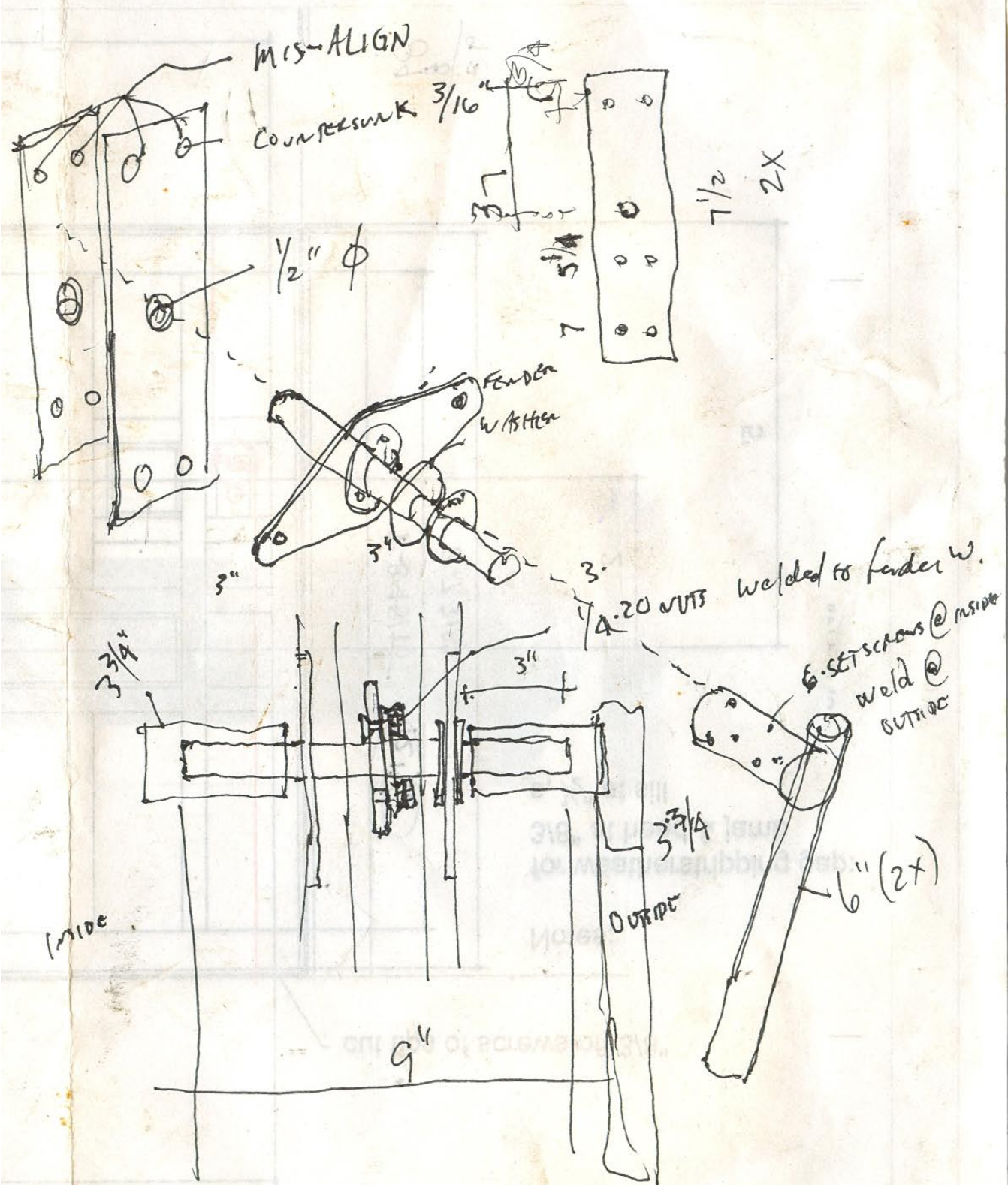


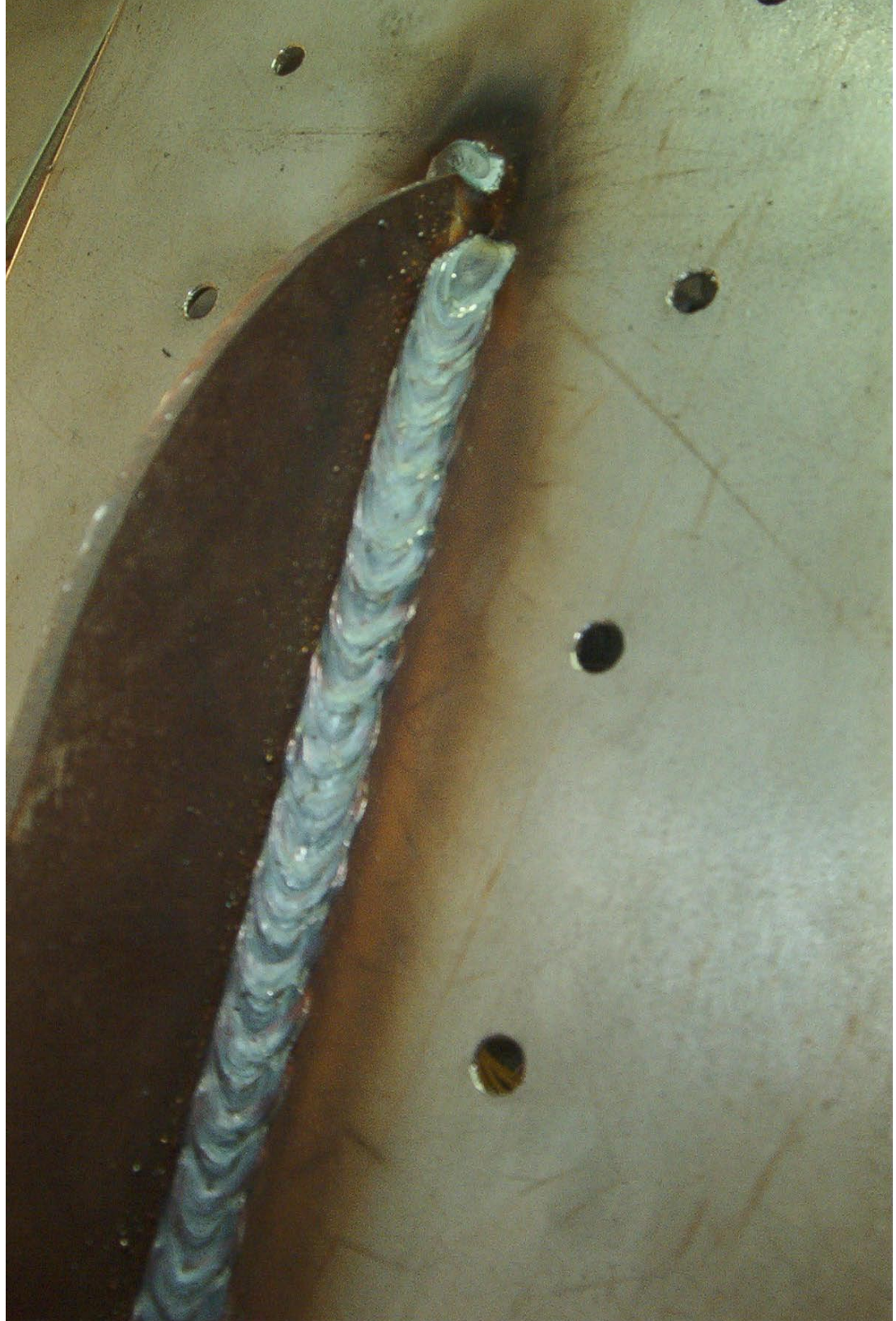


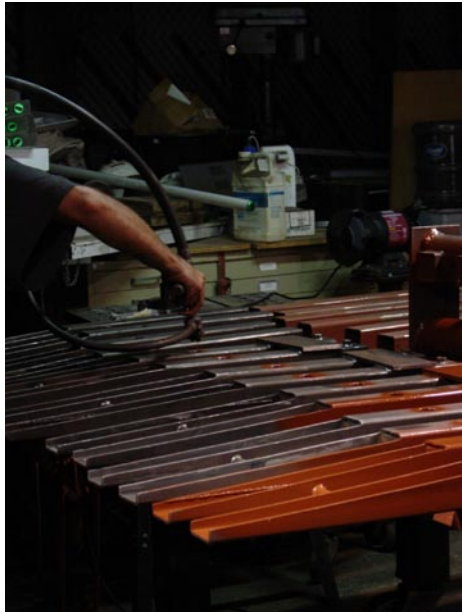


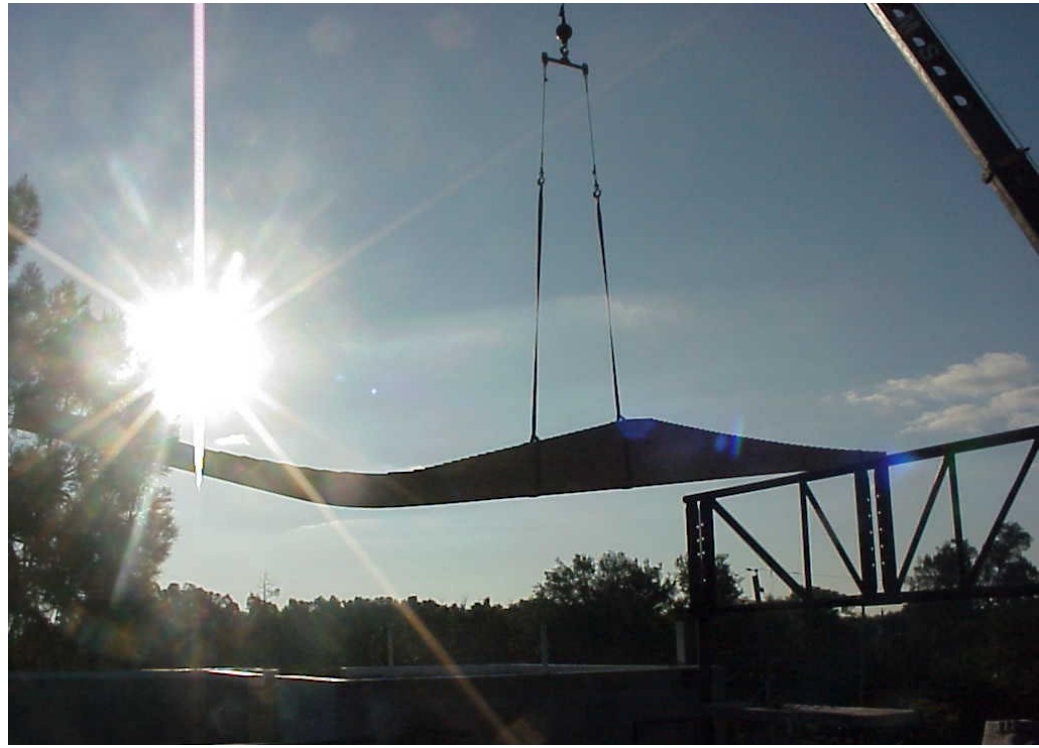


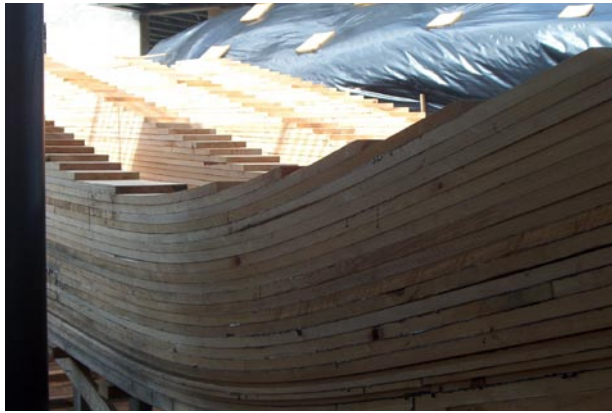




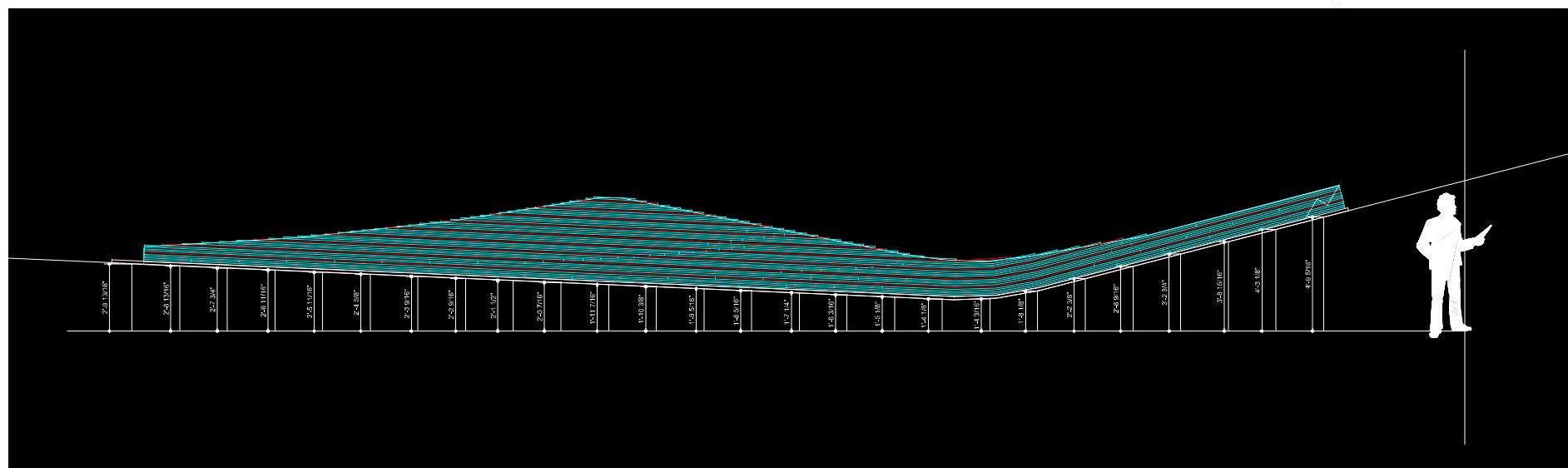
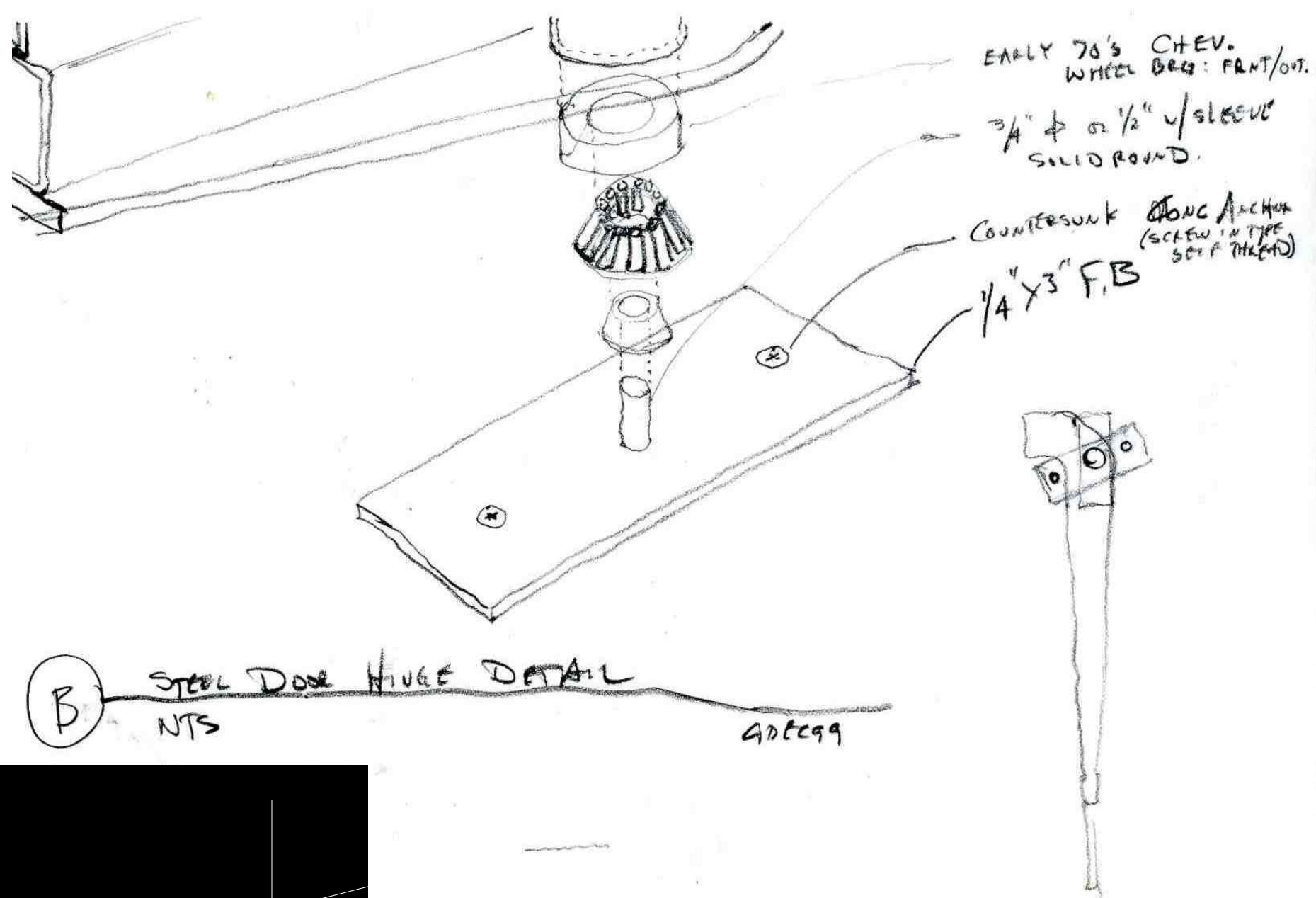








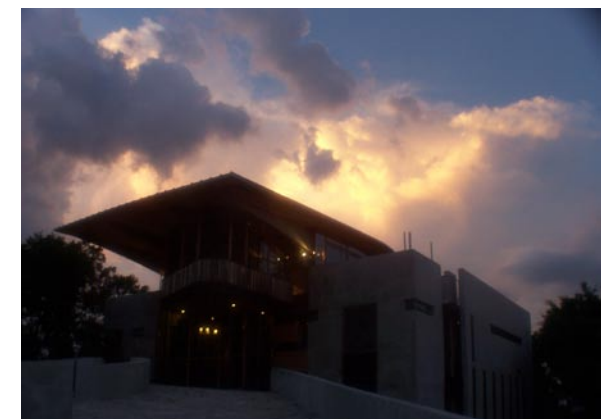






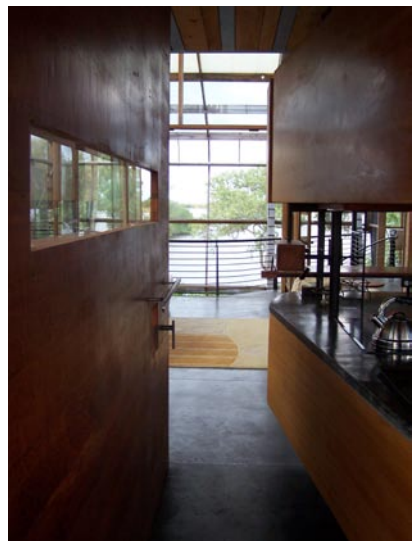




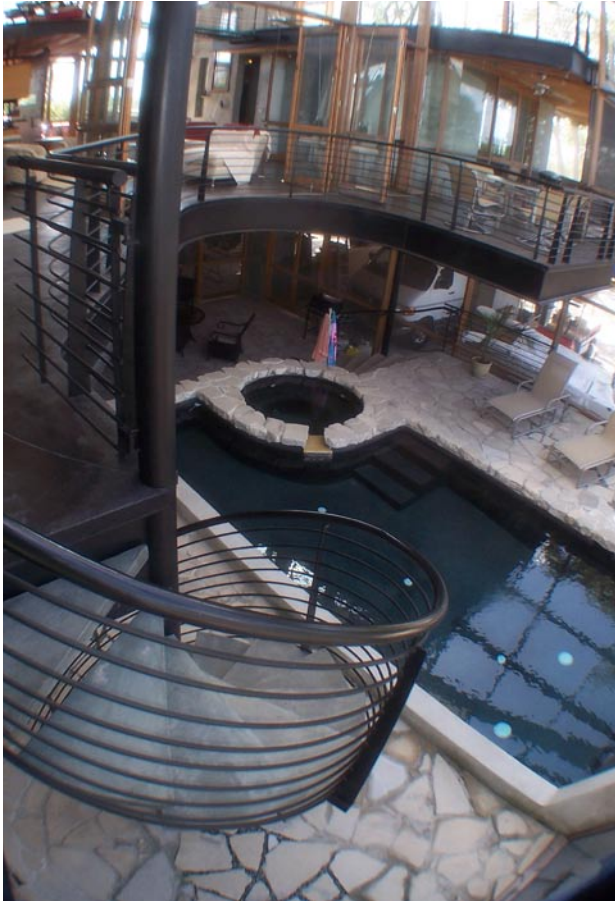


Spaces & Objects



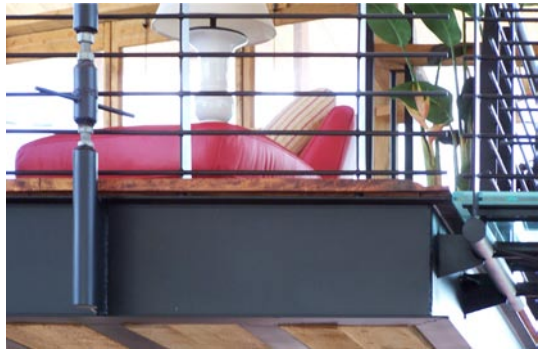




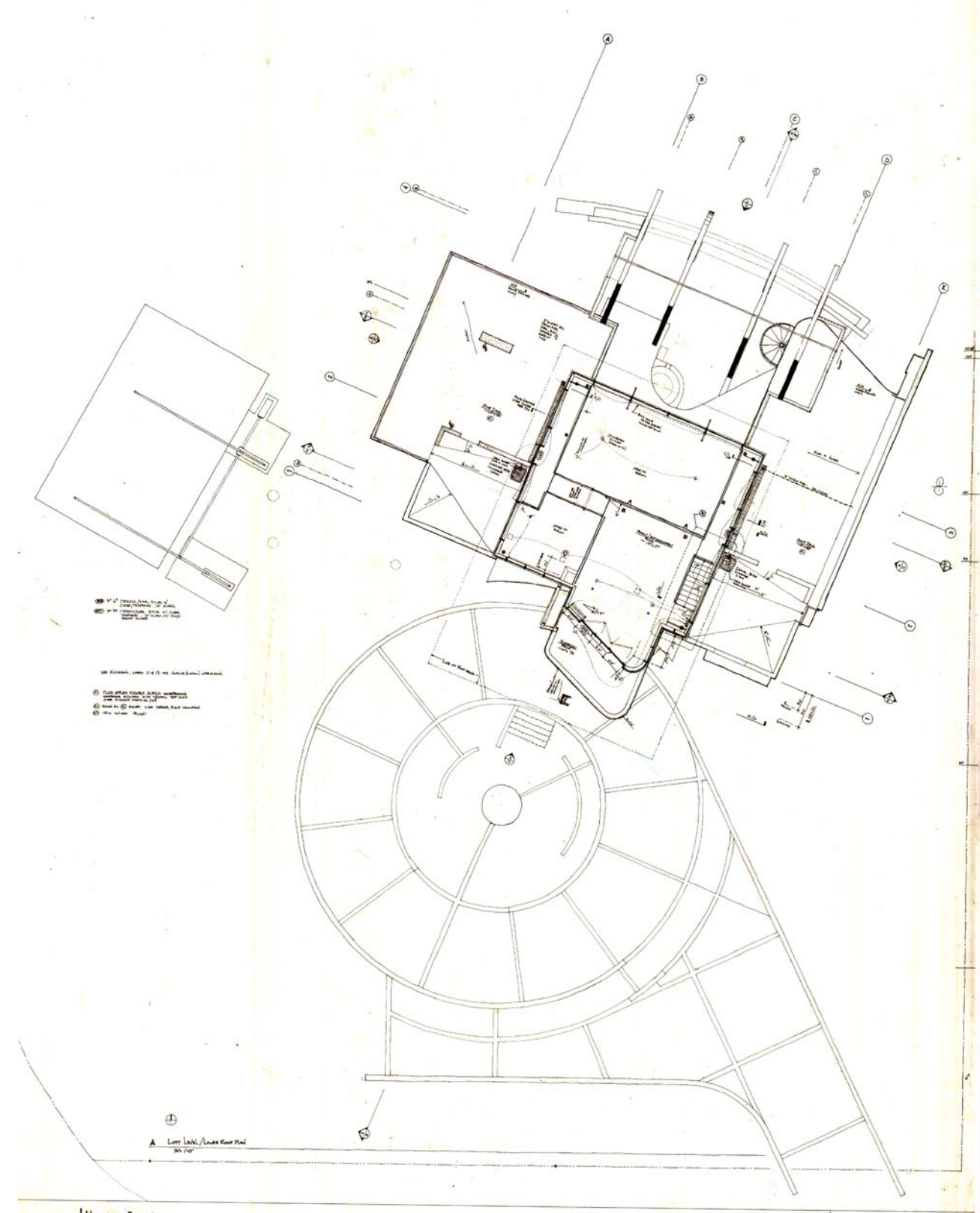
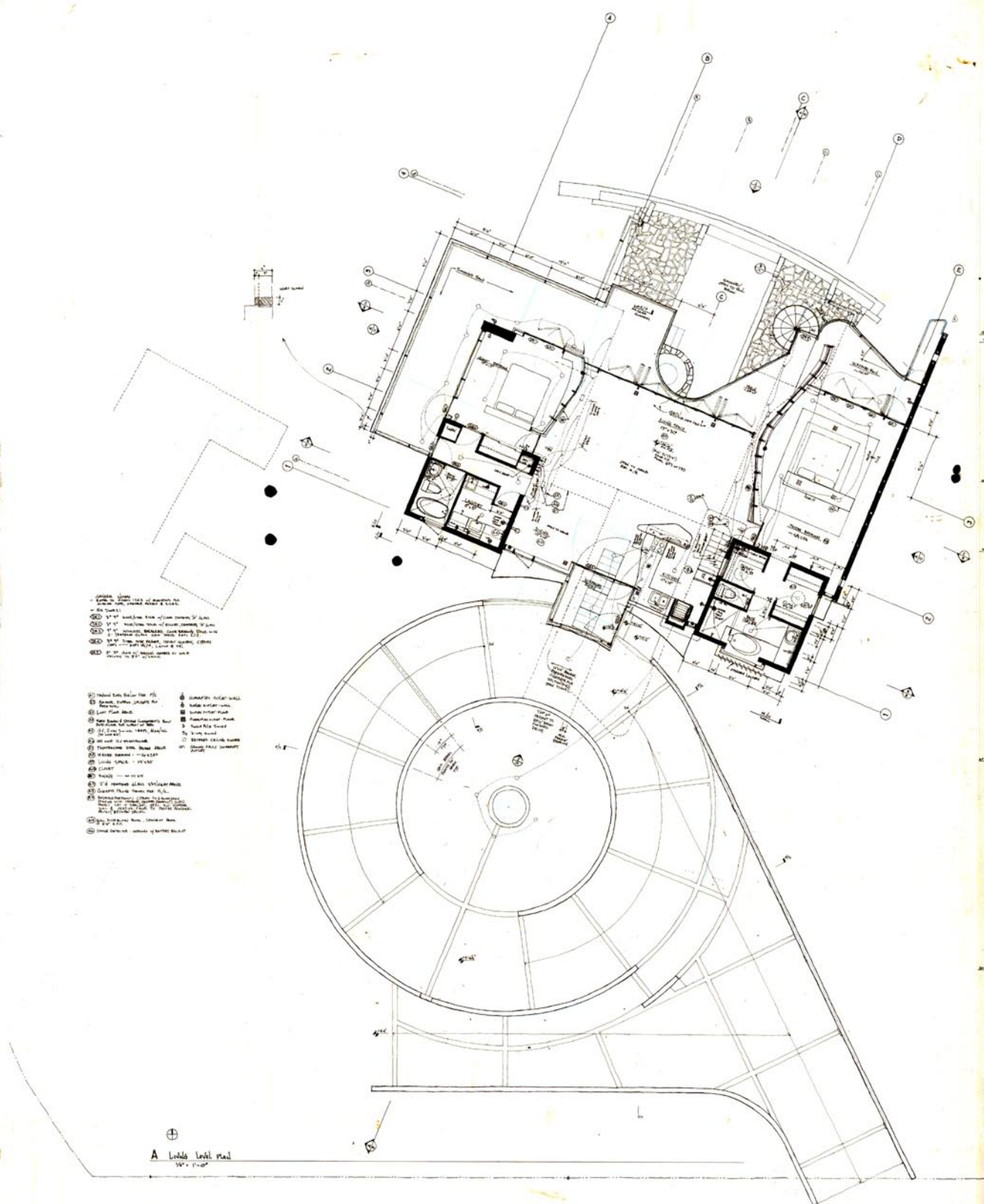


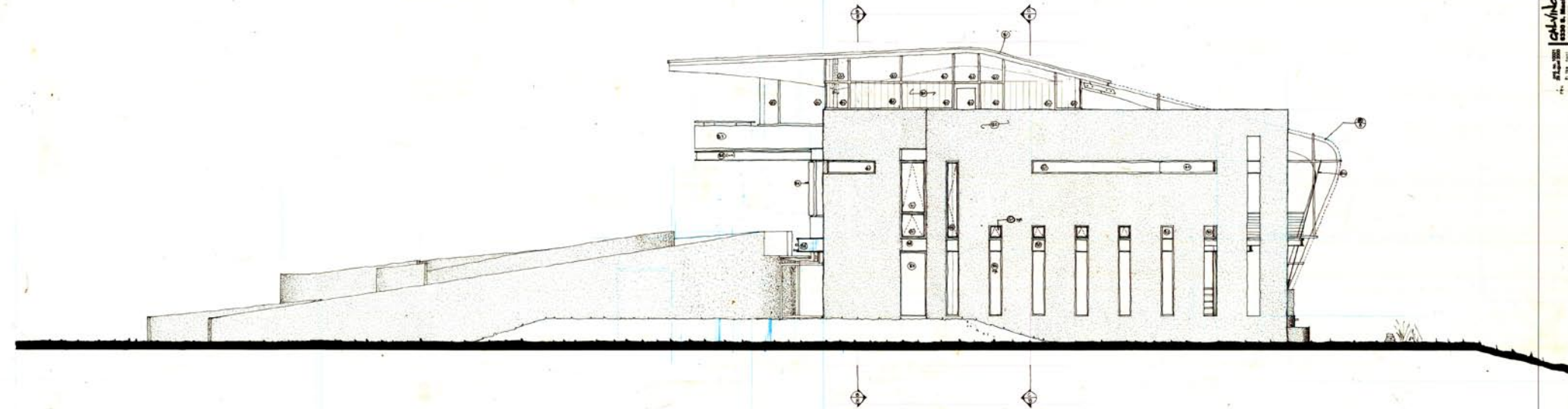








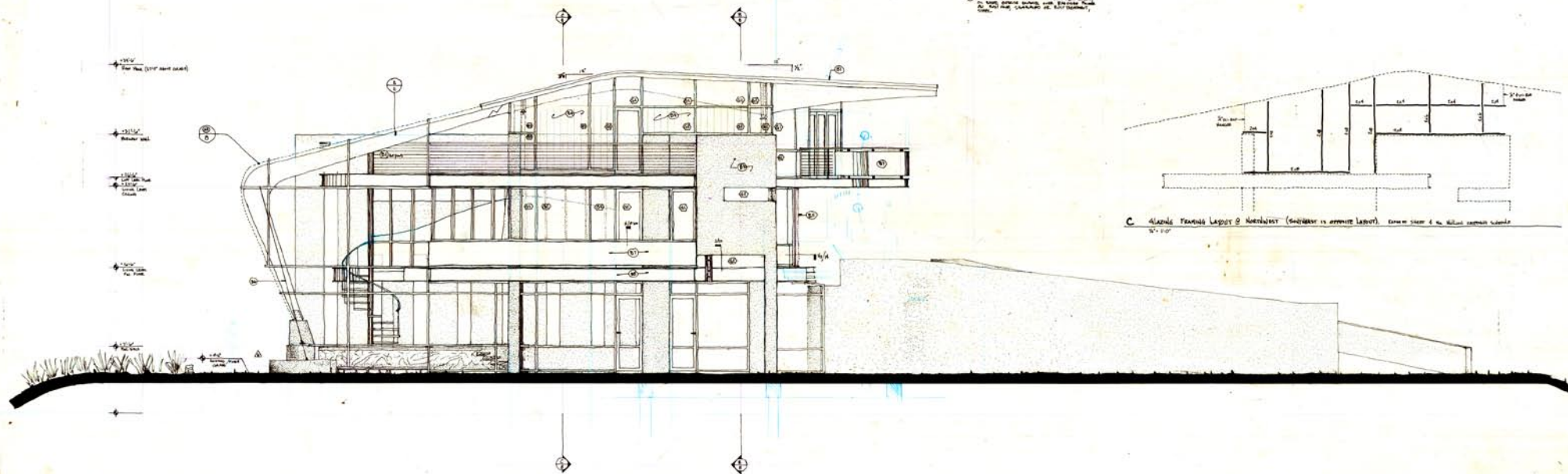




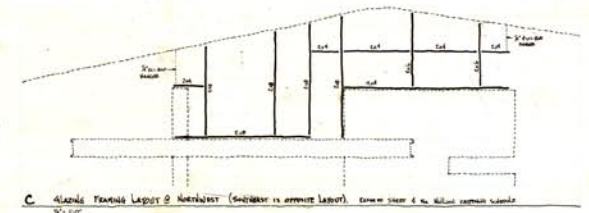
A. SOUTHWEST ELEVATION
1/4" = 1'-0"

— MATERIALS —
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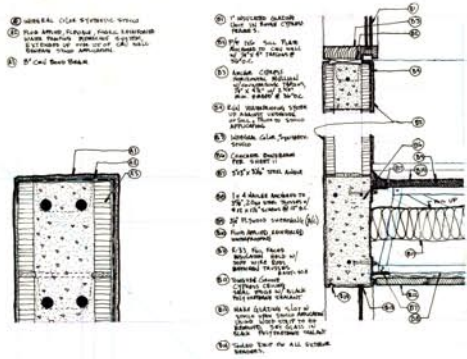
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B. WEST ELEVATION
1/4" = 1'-0"

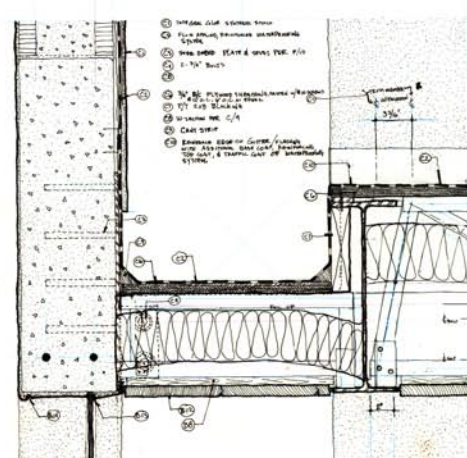


C. ALONG FACING LAPOR B. NORTHWEST (SOUTHWEST IS ALONG LAPOR). ELEVATION SHOWN IS NOT TO SCALE. SEE SECTION FOR SCALE.

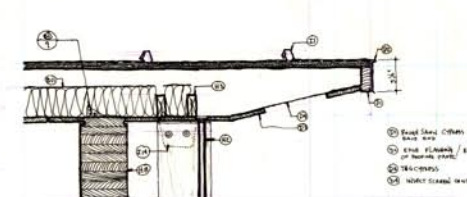


A Top Barrier Wall
9'0" x 9'0"

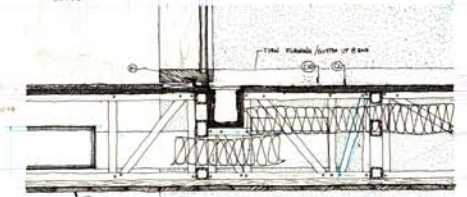
B Barrier Wall with Glazed sill
12'0" x 9'0"



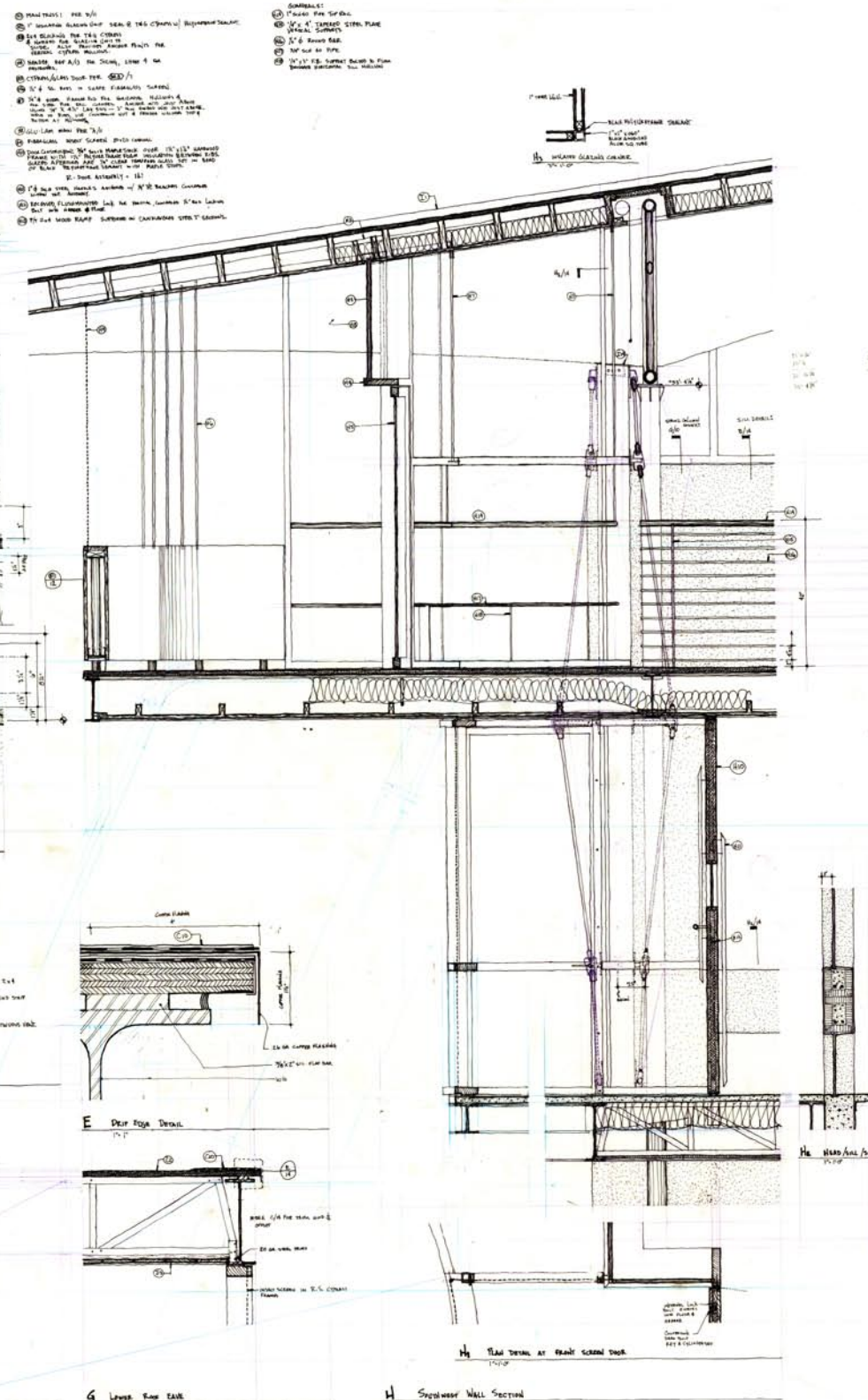
C Corner Panel at Barrier wall
9'0" x 9'0"



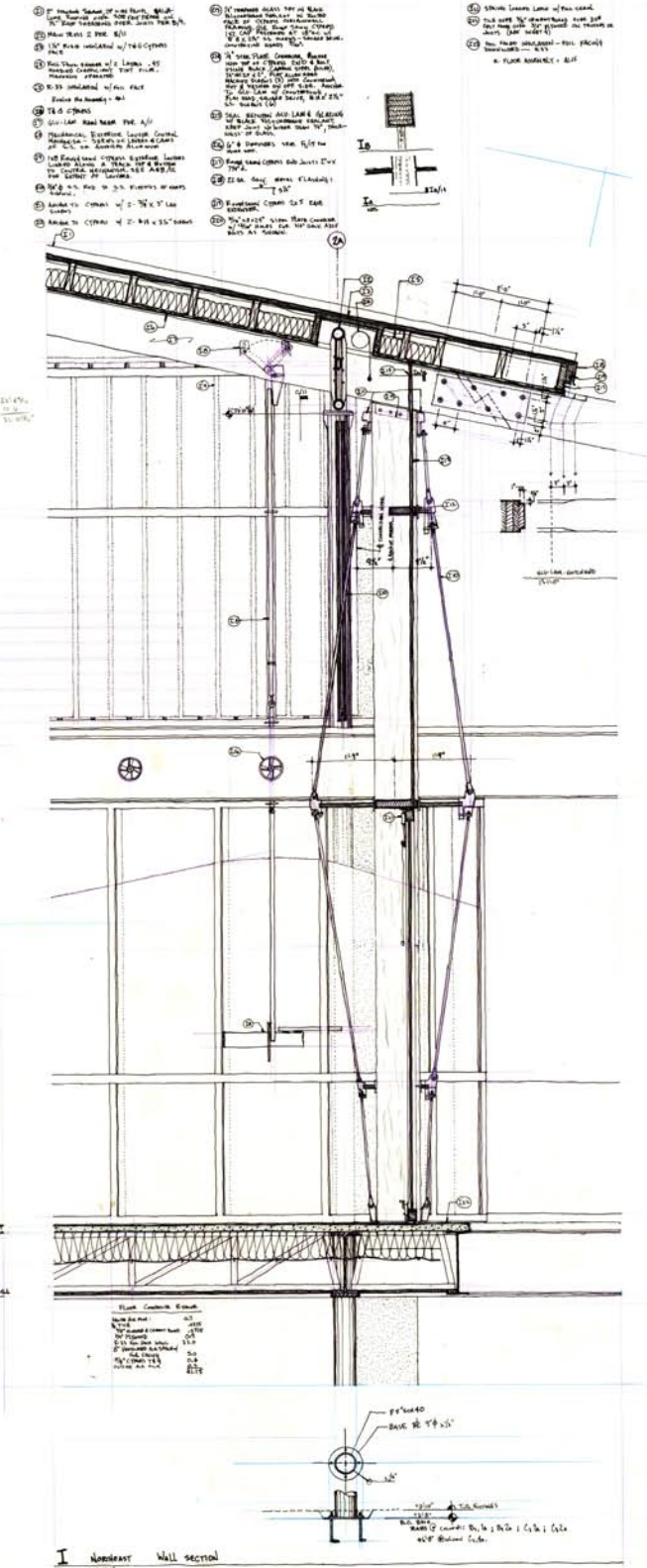
D Upper Roof Edge
9'0" x 9'0"



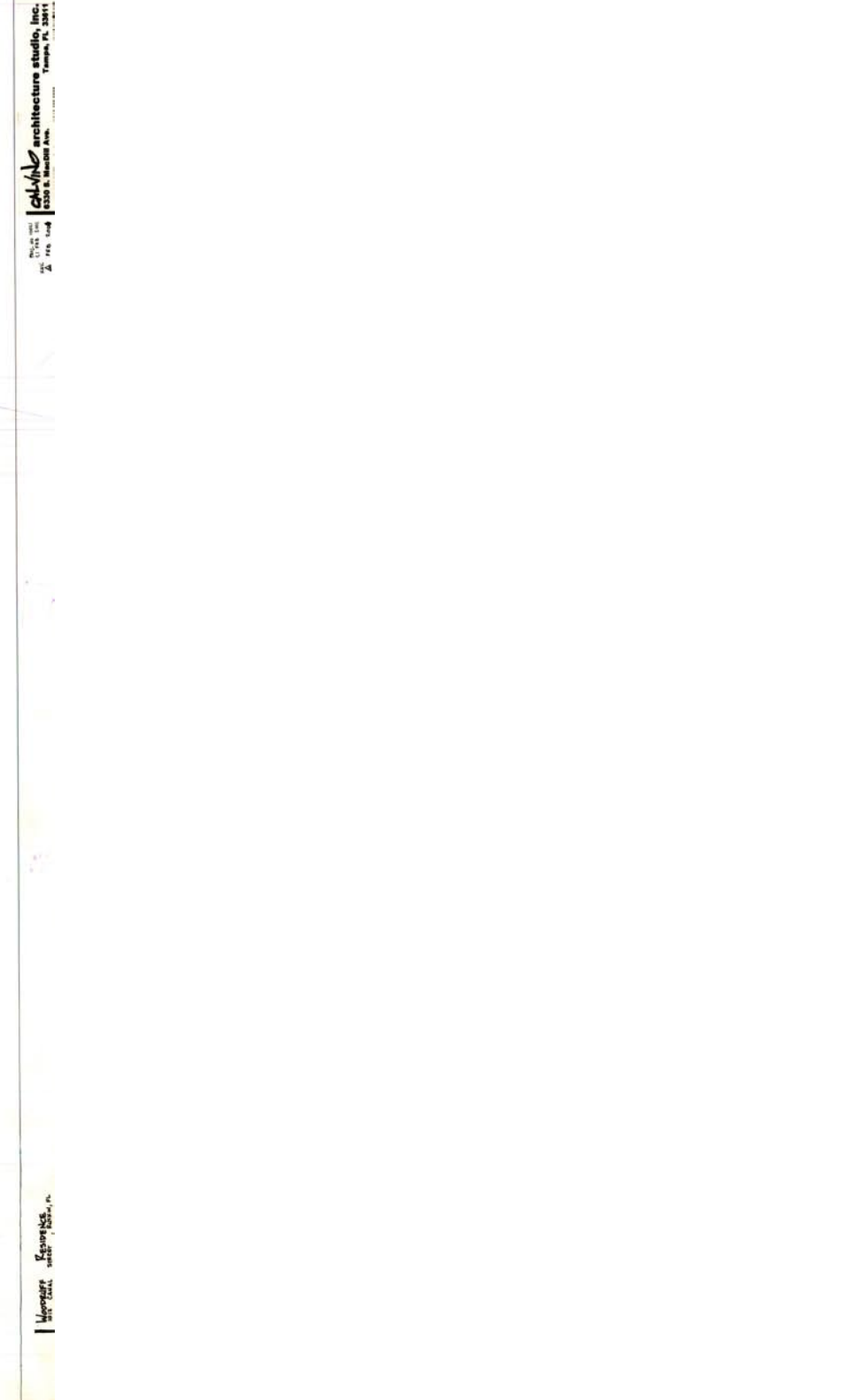
F Corner Detail at Lower Roof Sill
9'0" x 9'0"



G Barrier Wall Section
9'0" x 9'0"



H Barrier Wall Section
9'0" x 9'0"

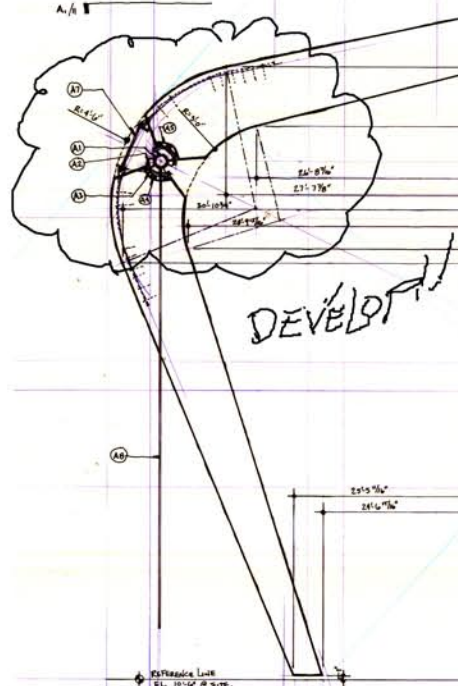
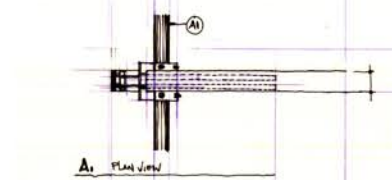


I Barrier Wall Section
9'0" x 9'0"

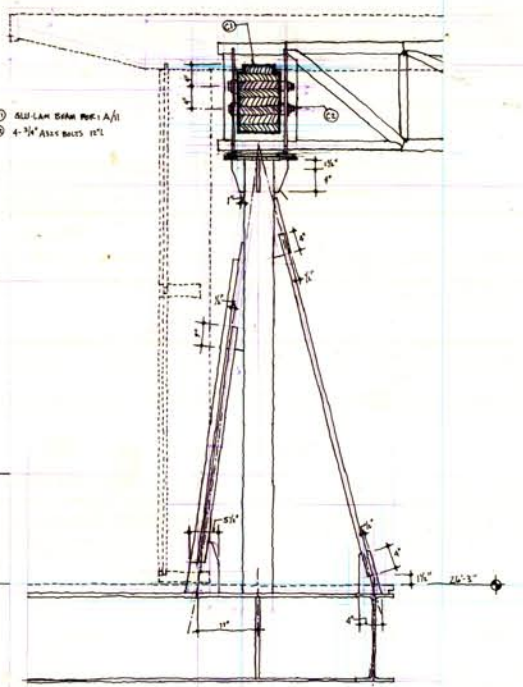
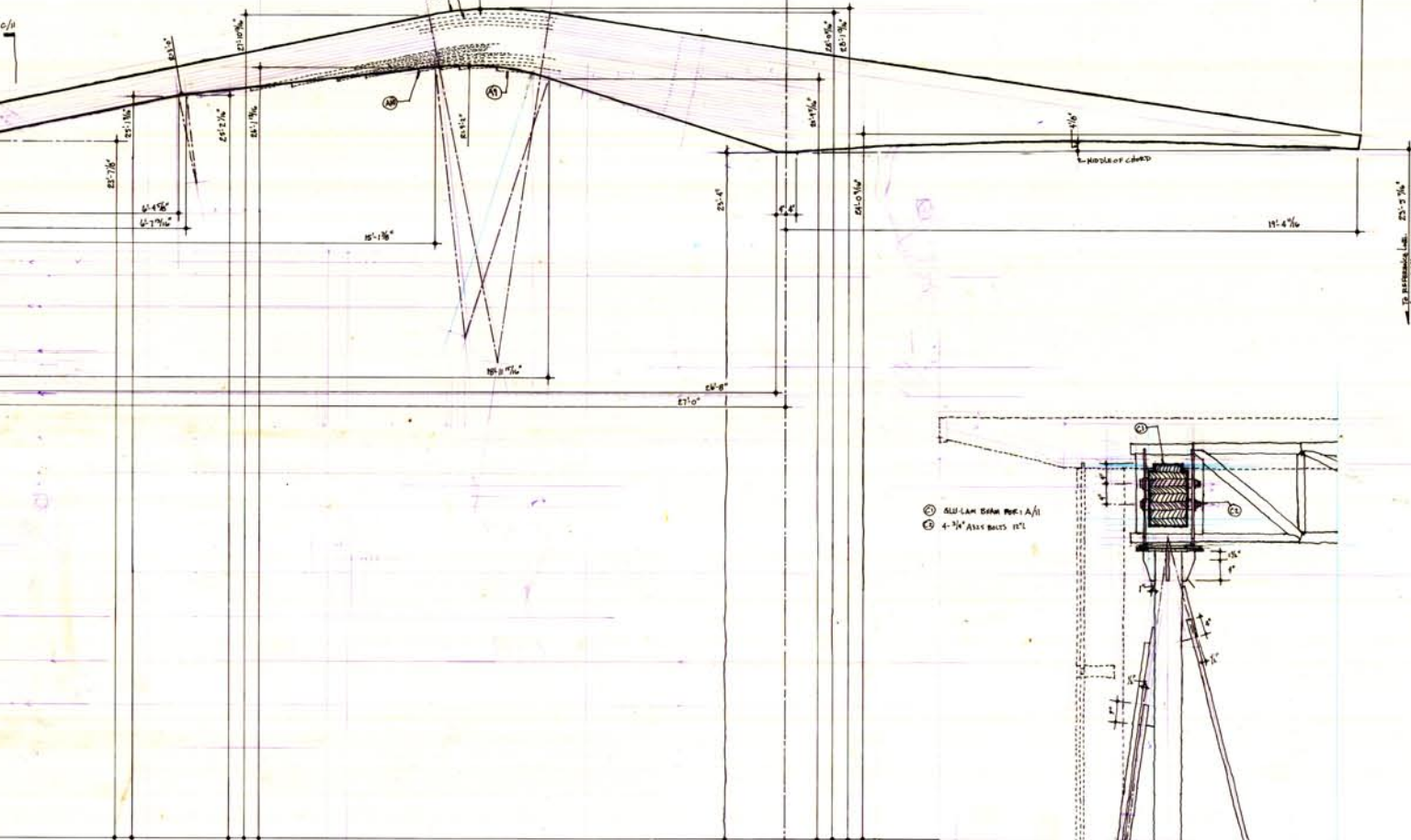
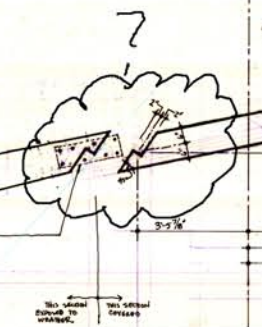
calvin architecture studio, inc.
1000 10th Ave. S.W.
Seattle, WA 98101
Tel: 206.461.1000
Fax: 206.461.1001
www.calvinstudio.com

- (A) 5" SCHED PIPE CONNECTION BETWEEN 4" BEAMS.
- (B) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (C) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (D) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (E) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (F) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (G) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (H) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (I) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (J) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (K) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (L) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (M) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (N) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
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- (P) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (Q) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (R) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (S) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (T) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (U) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (V) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (W) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (X) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (Y) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.
- (Z) 1/2" GAL. STEEL BRACKET WELDED TO PIPE TO BRACE NEW LAM. BEAM. BRACKET WITH 1/2" MIN. THICK STEEL PLATE.

- (1) AT UPPER CONNECTION, MAX. MAX. LAMINATION THICKNESS IS 0.005" OR 1/16".
- (2) LAMINATION MAY BE LEFT OUT IN CASE ADDED "CLAMPING" OF "BRACKET" PLATE IS UNDESIRABLE AMOUNT OF BRACKET ADDED. RESULTS OF JOINT AFTER CLAMPING, ALSO THE UNDESIRABLE VALUE OF JOINT, NOT BE AN ADVICE TO THE DESIGNER & NOT A "RECOMMENDATION".
- (3) LAMINATION BRACKET BEING AT THE TOP OF THE BRACKET & "CLAMPING" LAMINATE AND BRACKET JOINTS & NOT IN LENGTH TO THE BRACKET. JOINTS SHOULD BE LOCATED AND IN 10" MIN. FROM THE LAMINATION JOINT CENTER LINE OF THE BRACKET.
- (4) BRACKET (BRACKET) AT JOINTS AND BRACKET JOINTS SHOULD BE LOCATED AND IN 10" MIN. FROM THE LAMINATION JOINT CENTER LINE OF THE BRACKET.
- (5) NO END JOINTS SHALL FALL WITHIN 40" FROM LINE OF JOINT IN 10" MIN. FROM THE BRACKET.
- (6) BRACKET IS TO BE "SUPPORT" CYCLING.



A MAIN GLULAM BEAMS
1/2" x 1/4"



C ELEVATION
WIND BRACKET AT COLS B2, 2A & C2, 2A
1/2" x 1/4"

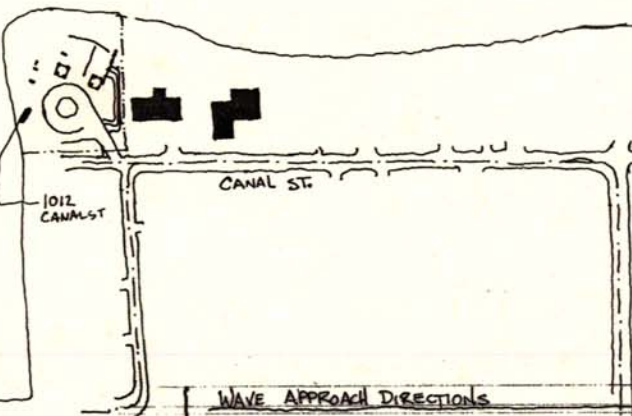
MOUTH OF THE
LITTLE MANATEE RIVER

WAVE APPROACH ①

WAVE APPROACH ②

FOR ANALYSIS PURPOSES & TO
PRODUCE CONSERVATIVE
RESULTS, ISLAND IS TREATED
AS A BREAKWATER AS SHOWN.

105°
60°
45.5°



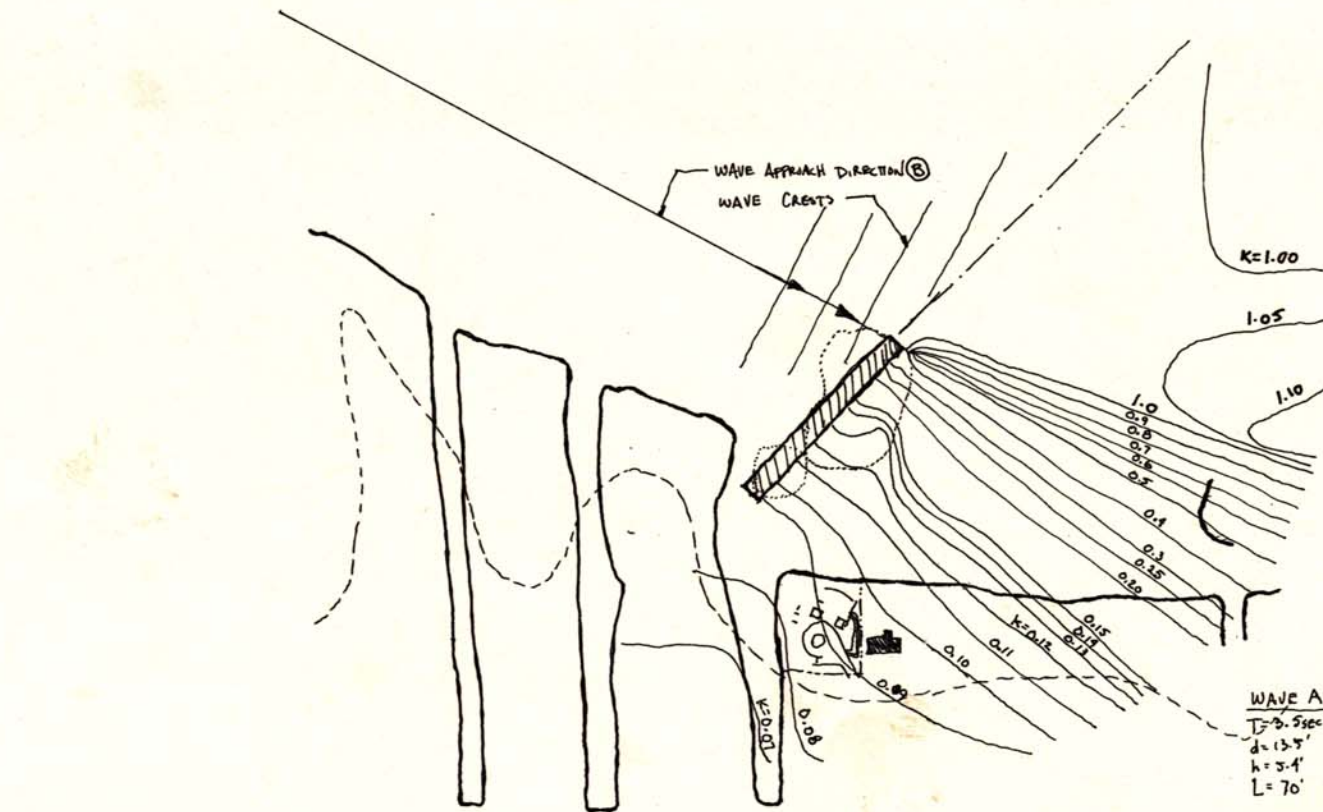
WAVE APPROACH DIRECTIONS

WAVELENGTH: $L = 70'$
WAVE HEIGHT: $= 3.4'$ @ ISLAND BREAKWATER

FLOODWATER STUDY

A PLAN SHOWING 2 MAJOR POSSIBLE WAVE APPROACH DIRECTIONS (GREATEST HEIGHT VELOCITY FROM BAY DIRECTION BETWEEN LAND MASSES).

WOODRUFF RESIDENCE
1012 CANAL ST.
RUSKIN, FL 33570



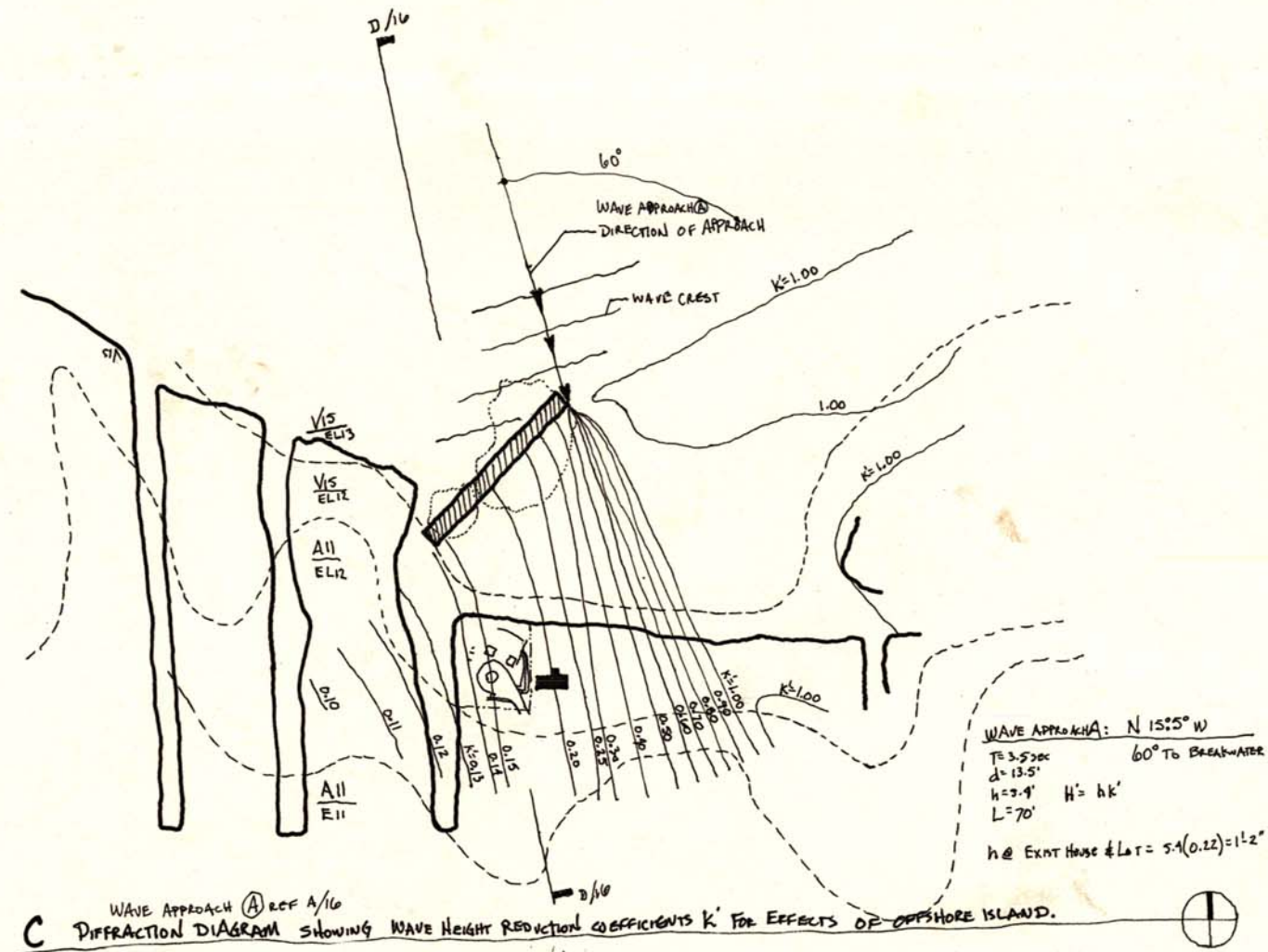
B DIFFRACTION DIAGRAM, WAVE APPROACH (B) REF: A/16.

0' 60' 100' 200'

WAVE APPROACH (B): N 61.75° W
 $T = 3.5 \text{ sec}$ 105° TO NAT. BREAKWATER
 $d = 13.5'$
 $h = 3.4'$ $h' = K(h) = \text{WAVE HEIGHT DUE TO ISLAND BREAKWATER}$
 $L = 70'$

AT ZONE WHERE EXISTING NEIGHBOR'S HOUSE STANDS WAVE HEIGHTS ARE REDUCED TO 0.10 (3.4') = 0.5" (inches)
 DUE TO BARRIER ISLAND, W/ WAVES PRIMARILY FROM DIRECTION OF N 61.75° W THE 100 YR BASE FLOOD CONDITIONS, WITH RESPECT TO WAVE HEIGHT & THEREFORE VELOCITY ARE LESS THAN THOSE OF THE ADJOINING ZONE AII.

DIFFRACTION PATTERN & COEFFICIENTS FROM USACE, 3PM 1984.



C WAVE APPROACH (A) REF A/16
 DIFFRACTION DIAGRAM SHOWING WAVE HEIGHT REDUCTION COEFFICIENTS K' FOR EFFECTS OF OFFSHORE ISLAND.

0' 60' 100' 200'

WAVE APPROACH (A): N 15° 5' W
 $T = 3.5 \text{ sec}$ 60° TO BREAKWATER
 $d = 13.5'$
 $h = 3.4'$ $h' = hK'$
 $L = 70'$
 $h @ \text{EXT HOUSE} \& L = 5.1(0.12) = 1.2'$

APPENDIX C

$$\frac{370}{1205} = 0.307$$

$$0.307(1) = .307$$

$$\text{ADD TO } 3.5$$

$$\text{ADD } E_{sw}$$

$$\frac{3.807}{9.3}$$

$$\frac{13.307}{13.307}$$

$$13' - 9.5' = 3.5'$$

$$14' - 9.5' = 4.5' \text{ Less}$$

$$\frac{4.5}{1.0}$$

WAVE H = .7 H = 3.807
H = 5.439

∴ WAVE EFFECTS ABOVE $E_{SW} = 2.1'$

PER FLOOD INSURANCE STUDY (FIS) 1992
BY F.E.M.A. FOR MILLSBOROUGH COUNTY
P. 13 LINE 6: 100 YEAR SURGE
ELEVATION (PEAK), NEAR MOUTH OF THE
LITTLE MAWATEE RIVER = 9.5'

$$\therefore E_{3w} = +9.5'$$

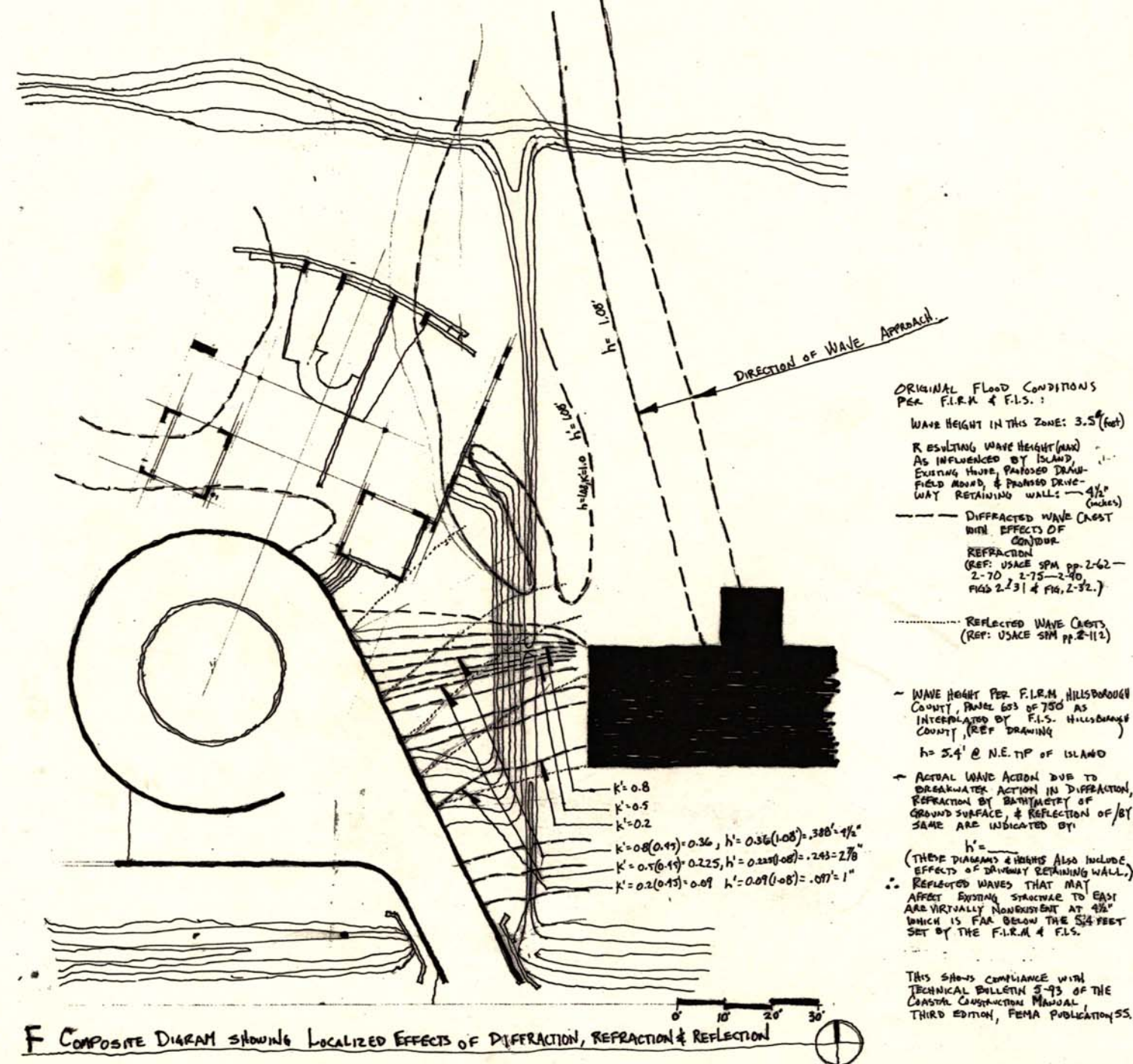
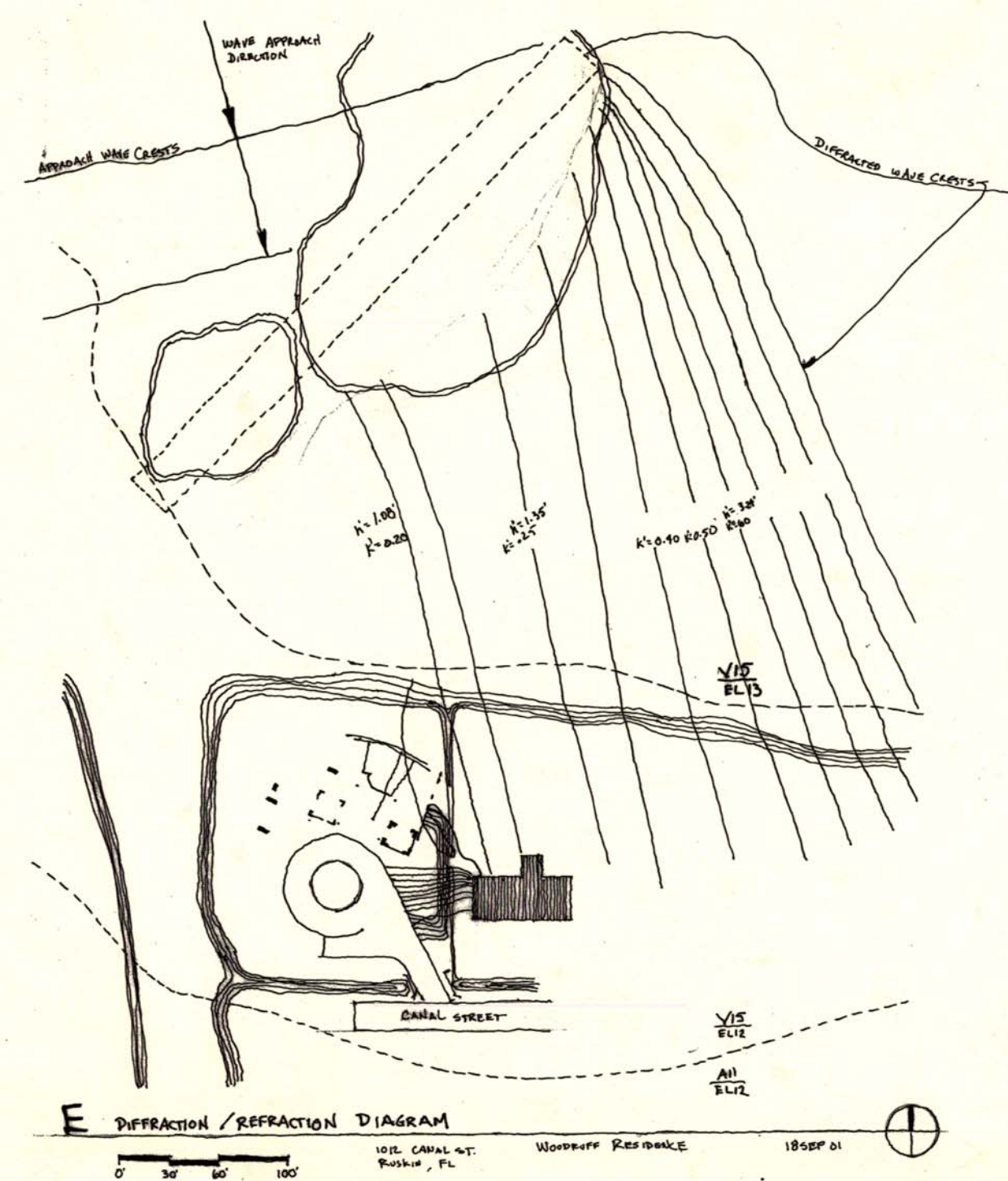
ADD WAVE EFFECTS $+2.1$

$10.6'$

REF: FIS , SECTION 2.4 ¶ 3;

WAVES w/ HEIGHTS OF 3' or GREATER
ARE DISSIPATED w/in 200' of SHORELINE
∴ WAVE ACTION CAN BE ASSUMED TO
BE DIMINISHED & FLOOD SITUATION
INCLUDES ESPECIALLY 5 TIDAL SURGES
MOVING AT FLOOD VELOCITY.





ORIGINAL FLOOD CONDITIONS
PER F.I.R.M. & F.I.S.:

WAVE HEIGHT IN THIS ZONE: 3.5' (net)

RESULTING WAVE HEIGHT (AND
AS INFLUENCED BY ISLAND,
EXISTING HURR. PROPOSED DRIVE-
WAY ROUND, & PROPOSED DRIVE-
WAY RETAINING WALLS: $4\frac{1}{2}"$
(net)

DIFFRACTED WAVE (NEST
WITH EFFECTS OF
REFRACTION
(REF: USACE SPM pp. 2-62-
2-70, 2-75-2-90,
FIGS. 2-23 & FIG. 2-32.)

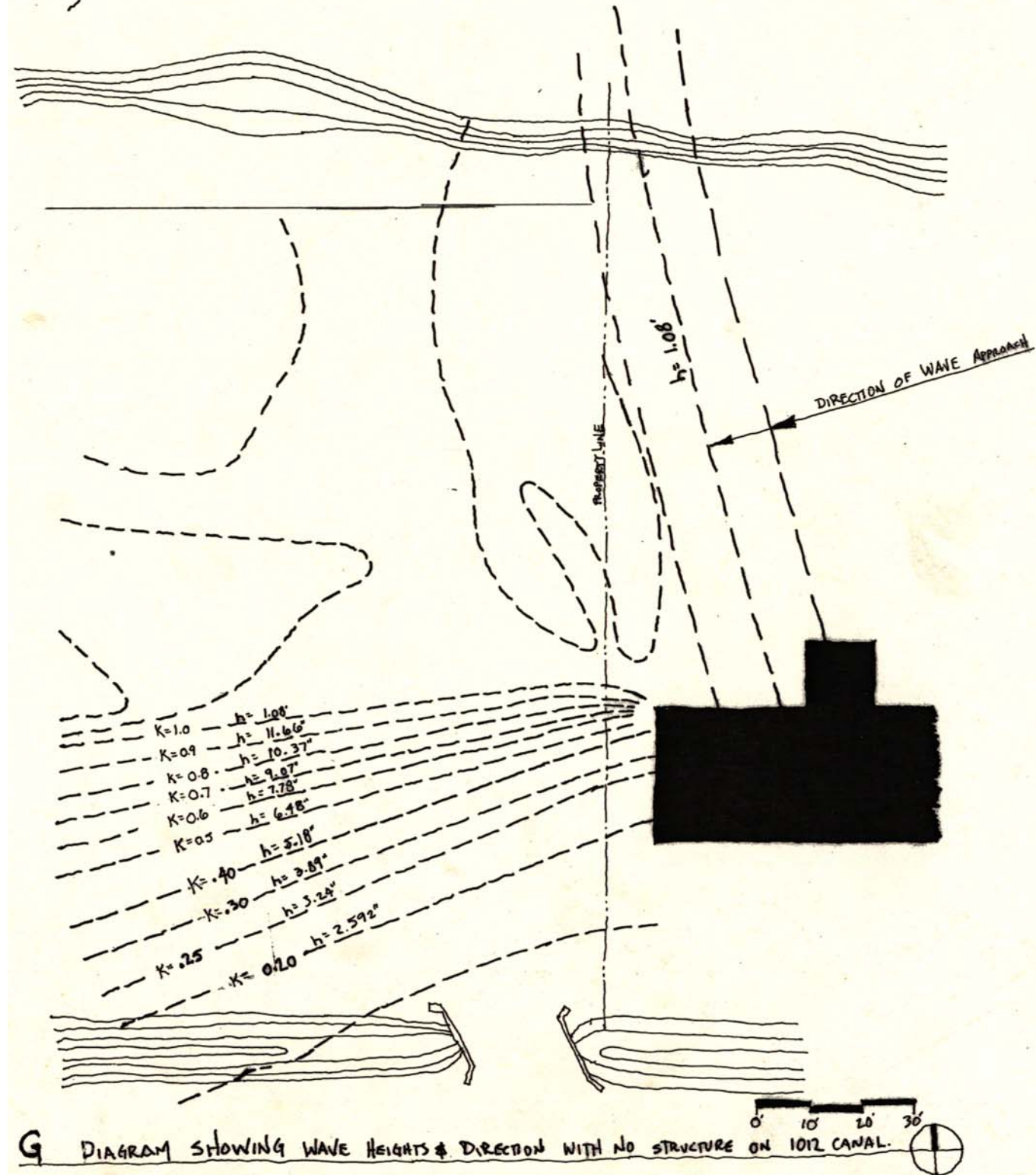
REFLECTED WAVE CRESTS
(REF: USACE SPM pp. 2-112)

WAVE HEIGHT PER F.I.R.M. HILLSBOROUGH
COUNTY, PAGE 603 OF 750 AS
INTERPOLATED BY F.I.S. HILLSBOROUGH
COUNTY, (REF. DRAWING
 $h = 5.4'$ @ N.E. TIP OF ISLAND

ACTUAL WAVE ACTION DUE TO
BREAKWATER ACTION IN DIFFRACTION,
REFRACTION BY BATHYMETRY OF
GROUND SURFACE, & REFLECTION OF BY
SAME ARE INDICATED BY:

$h' =$
(THESE DIAGRAMS & HEIGHTS ALSO INCLUDE
EFFECTS OF DRIVEWAY RETAINING WALL,
REFLECTED WAVES THAT MAY
AFFECT EXISTING STRUCTURE TO EAST
ARE VIRTUALLY NONEXISTENT AT $4\frac{1}{2}"$
WHICH IS FAR BELOW THE 5.4 FEET
SET BY THE F.I.R.M. & F.I.S.

THIS SHOWS COMPLIANCE WITH
TECHNICAL BULLETIN 5-93 OF THE
COASTAL CONSTRUCTION MANUAL
THIRD EDITION, FEMA PUBLICATION 55.



G DIAGRAM SHOWING WAVE HEIGHTS & DIRECTION WITH NO STRUCTURE ON 1012 CANAL.



Collaborators:

JJ Watts, Jason Jensen, Marie Reedy, Nhieu Dang, Daniel Currea, Hunter Longshore, John Babbit, Tom Ring, Dave Calvino, Dave Fraser, Matt Clement, Mike Rahal, Brad Cooke Tony Lorencio, Matt Kuser, Ben Cabrera, Greg Walden, Nathan Bowden.

Subcontractors/craftsmen:

S & S Pools: Carl & David Schoffstall, pool plumbing, bonding. Richard Trottier: concrete pilings. Sims Crane: Al Scott, crane operations, upper roof & glu-lams. Ron Fernandez; main house stucco. Rob Masters & crew: driveway CMU. Juan Narvaez: stucco work, driveway. Sam Cooley, Eli Good, Toby Guy: miscellaneous. Sharper Image Pools, Tampa: pool equipment & marcite finish. Wilhelm Heating & A/C; A/C system installation.



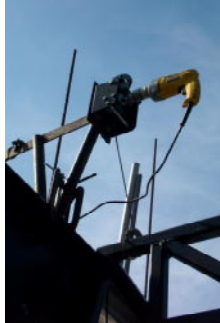
One of the first things to be built was the footing back hoe bucket. This piece of equipment came about by figuring that with one day of design, layout, & fabrication along with a single sheet of 1/4" x 4' x 8' A36 steel, I could fabricate the bucket with a flat tip & make it the exact width of the foundation grade beams, thereby saving days upon days of excavation work. So It was done, one day & one piece of 1/4" steel plate. It took two of us, Jason Jensen & myself just 4 days to dig the 400+ feet of grade beam excavations, The only thing was that right after this, I had to go do the 500yr flood wave research & analysis & during that time, a hurricane came through & washed in the excavations, the pilings were already in & so it left a mess that was not navigable with the back-hoe & had to be dug out by hand. Much help was had in the re-excavation effort.



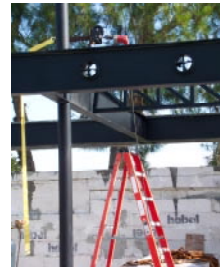
Rebar Bending Machine, fabricated in 12 hours saved \$2000 fabrication costs just in the foundation rebar which was bent in 10 hours.



Tractor boom extender. This fabrication, made of pipe drops from the columns of the upper roof allows lifting of equipment & materials to a height of abojut 20feet.



The drill operated hoist. Made from pipe & flat bar drops, this frame mounts a 2000#capacity boat trailer winch to it & by removing the crank handle from the winch, a 1/2" geared drill can be mounted to the winch shaft & can be used to raise loads. a 300# steel tube truss was lifted in place in the photos to the left.



Timeline

2000.02—Mike Calvino & Sharon Woodruff are introduced to one another by sculptor JJ Watts, a mutual friend

2000.03—preliminary design contract portion of design/build contract signed

2000.summer—Contemplative Garden courtyard design/proposal for Research Technologies, St. Petersburg. Collaboration with JJ Watts.

2000.fall—Eucalyptus Project—milled 5 1/2foot diameter Eucalyptus tree & clamped & stacked to air dry. This lumber becomes the floor of the Ruskin House loft, the front door, & the two bedroom floor inlays. www.calvinodesign.com/90021

2000.11—Gala Corina II www.calvinodesign.com/70014

2001.03—Building permits pulled to begin construction, starting with the “Guest House”

2001.05—Purchase 1956 International 5 Ton stripped chassis truck as a rolling chassis with most of the parts in boxes.

2001.08—Tractor engine blows up & is rebuilt along with the hydraulic hoses & the Structural frame supporting the back hoe is modified to work properly

2001.10—Foundation of main house on hold, 500yr flood study performed to prove that driveway structure & raised, on site sewage drain-field will not negatively affect neighboring properties.

2001.10—No-name storm blows in & floods foundation excavations for main house & are re-dug by hand.

2001.11—Gala Corina III www.calvinodesign.com/70026/

2002.01 — Mary Angela Calvino is born.

2002.02—”Guest House” (the teaser building) is completed at the Ruskin site.

2002.02—Russel St. residence preliminary concepts designed for potential project. (unbuilt) www.calvinodesign.com/10031

2002.spring-winter—lwata Glass Screen project in Gainesville. Deisgn/fabrication/ installation of steel/glass shelving system/screen wall in new residence by DMc2 Architecture, Gainesville, FL. www.calvinodesign.com/30011 (published in The Gainesville Sun, April 3, 2005)

2002.03—Foundations poured on Main structure, Ruskin House.

2002.summer—Ribbon stair installation project design (unbuilt) www.calvinodesign.com/30012

2002.summer—7th & 8th high-back dining chairs built for Crowell Collection. www.calvinodesign.com/40020

2002.fall—Pentagon Memorial competition is entered by JJ Watts/Mike Calvino. www.calvinodesign.com/11007

2002.11—Gala Corina IV www.calvinodesign.com/70026/

2003.spring—coffee bar buildout design (unbuilt) www.calvinodesign.com/30013

2004.08—Michael Anthony Calvino (MAC) is born.

2004.10—’56 International 5 ton flatbed truck is now running & put on the road w/ original engine after complete assembly (about 2 years worth & with much help of

brother-in-law Carl) along with design & fabrication of flatbed, rack & toolboxes), just in time for glu-lam hanging when the original transmission in the ‘95 GMC 1/2 ton pickup essentially blows up & is not replaced with heavy duty overdrive unit until after the glu-lam hanging.

2004.12—Glu-lam beams completed & hung in place.

2005—Cast in place, cantilevered concrete stair & stainless steel railing at Dickman Island House. (project done on the side) www.calvinodesign.com/50003

2005.10-12—Schematic studies for concrete “C” house in Ft. Lauderdale. (project done on the side) www.calvinodesign.com/10038

2006.08—Driveway structure foundation is poured.

2006-09—Tractor transmission seizes during fill dirt operation & is repaired on site within 6 hours & work is resumed.

2006-10—’56 International 5 ton truck is back on the road after a year of Mondays rebuilding & fitting a GM 350 V8 w/ 1993 5 speed overdrive transmission is fitted into the truck, just in time for transporting the recycled concrete chunks for the driveway pavers, 20,000# at a time.

2007.03—Cecilia Rose Calvino is born.

2007.09.07—Punch list is completed for the Ruskin House.

