Kirk Boike ARCHITECT ◆ 4601 Mason Street ◆ Port Townsend WA 98368 ◆ 360 385 6140 architect@surfbest.net

2010

Snow load:

The calculations herein comply with the requirements of the 2006 IBC (international Building Code), IRC (International Residential Code), WFCM (Wood Frame Construction Manual), AISI (American Iron and Steel Institute), COFS/PM (cold-Formed Steel Framing -Prescriptive Method for one and two family dwellings). Prescriptive nailing, construction methods and techniques shall apply unless otherwise noted and detailed.

Seismic zone: D1; (see design for additional parameters) 30psf

Floor load: 50psf (10LL+40DL)

Roof load: 40psf (10LL+30DL)

Exterior deck load: 65psf (DL+LL) DL (hay storage, if applic.): 125psf

100mph, exposure "B" Wind speed:

Wind loading: 24psf

Weathering probability: Moderate

Frost line depth: 18'

Termite infestation prob.: Slight to Moderate Decay probability: Slight to Moderate

Winter design Temp.: 20 degrees F 2400psi U.O.N. Concrete strength:

P.T. Hem-Fir Sole plate. Wood:

Fir # 2 all structural members (except studs) U.O.N. D.

15/32" sheathing U.O.N.; 8d nails U.O.N.; double 2x6 sole plate at Shear-wall:

loads at or above 300#/lf; double studs at panel nailing 2" o.c.; solid

2x blocking at horizontal panel edges where 2" edge nailing is required.

1.0

1500psf vertically; 100psf/ft (bearing), 130psf (sliding) laterally

Hewlett Packard 12c with RPN data entry Calculator:

Sincerely, Kirk Boike, Architect

Air density:

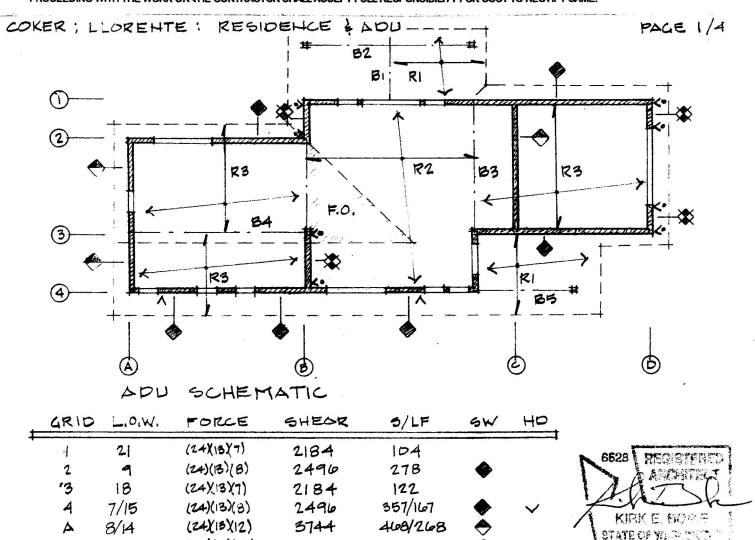
Soil bearing:

#6528 expires: 30 April 2012

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(69)

THE DRAWINGS AND PLANS SET FORTH ON THIS SHEET AS INSTRUMENTS OF SERVICE ARE, AND SHALL REMAIN, THE PROPERTY OF KIRK BOIKE, ARCHITECT. WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS, ETC, PERTAINING TO THE WORK BEFORE PROCEEDING. THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND/OR CONDITIONS SHOWN ON THESE DRAWINGS. ANY SUCH VARIATION SHALL BE RESOLVED BY THIS OFFICE PRIOR TO PROCEEDING WITH THE WORK OR THE CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR COST TO RECTIFY SAME.



568

432

520

SHEAR-WALL CHEDULE

4/11

13

B

6

0

- 4 15/32° C-C;C-D SHEATHING w/ 8d's @ 6° O.C. (260)
- ♦ 15/32" C-C;C-D SHEATHING W 8d's @ 4" O.C. (380)
- ♦ 15/32" C-C;C-D SHEATHING w/ 8d's @ 3" O.C. (490)
- 15/32" C-C;C-D SHEATHING w/ 8d's @ 2" O.C. (640) (Double plates @ panel edges.)
- O 1/2" OR 5/8" G.W.B. w/ 6d 's @ 6" O.C.

HOLD-DOWN SCHEDULE

- I SIMPSON CMST 14/16 (6490/4585)
- > SIMPSON HTT22, OR PHD5-8DS3, OR HDU5-SDS2.5 (5250, 4685, 5430)

(24)(13)(20)

(24)(13)(18)

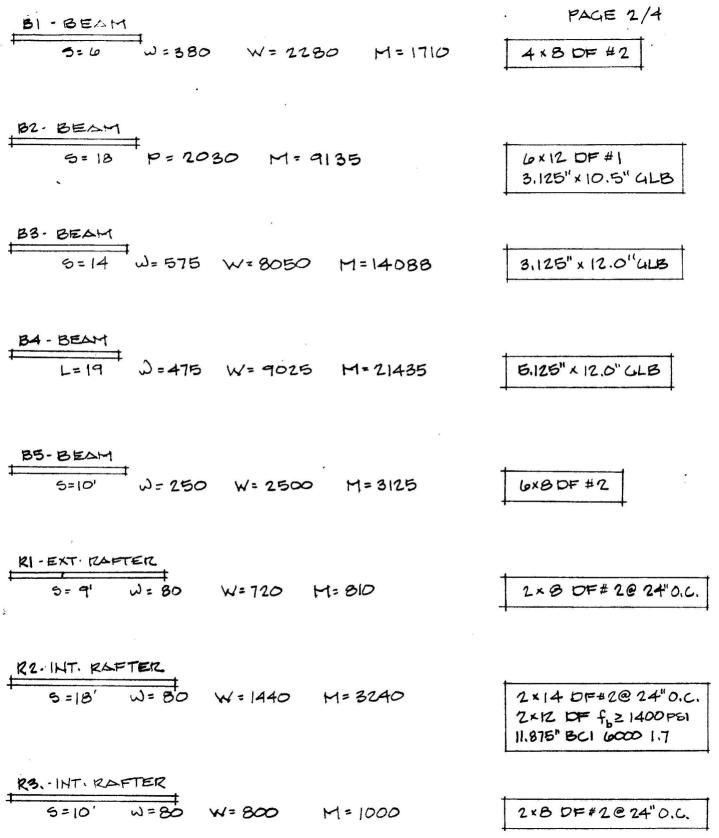
(24)(13)(10)

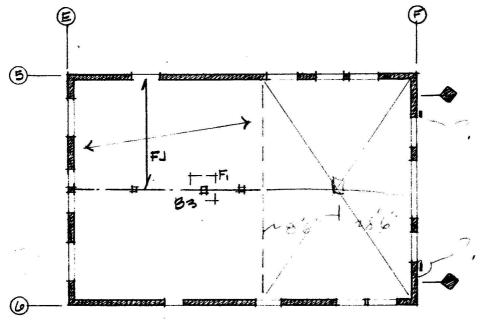
6240

5616

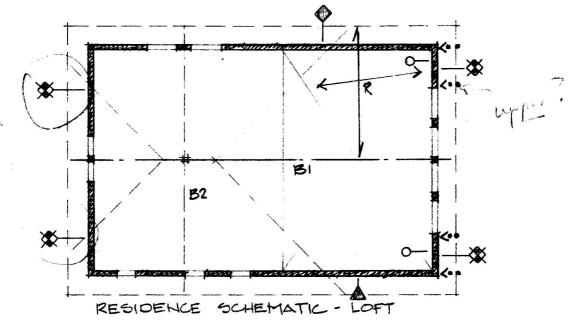
3120

- SIMPSON HD8A, OR PHD6-SDS3 (6465, 5860)
- SIMPSON HDQ8-SDS3, OR HDQ11-SDS2.5 (7175, 11445)





RESIDENCE SCHEMATIC - MAIN



4R10 FORCE L.O.W. SHEAR TOTAL 6/LF SW HO (24)(8)(12) (24/8)(12) (24 (8)(18) Ħ (24/8/18) F (24 (8 (12) (24/8/12) (24)(8)(18) 11/01 E (24X8X18) =

5=12' W=80 W=960 M=1440

00 M=1440 2x10 DF#2@24"0.C.

5 = 26' D = 500 W = 13000 M = 42250

5.125" × 16.5" GLB 5.24" × 14" V.L.

3.8" × 9.5" V.L.

B2. RIDGE BEAM 5=12' W=500 W=6000 M=9000

7=9000 5.126" × 10.6" GLB

B3-FLOOR BEAM

BEAM

2 = 600

3.125" × 10.5" (12

W = 7800 $R_1 = 4609$ $R_1 = 8191$ M = 9682 S.68 S.32

5,125" × 9,0"4LB

FJ · FLOOR JOIST 5=12' W= 67 W= 804 M= 1206

2×10 DF# 2@16"0.C. 2×8 DF#1@16"0.C.

42" x 42" x 9.25" W/

P≤17000 AR≥11.2 \$

Need loft flow beam

#4'5@ 6"O.C.E.W.