



Custom Cabin Design
Plan #262 Aspen Cabin Crawl Space
By SDS-CAD Specialized Design Systems

BUILDING CONTRACTOR/HOME OWNER
 TO REVIEW AND VERIFY ALL DIMENSIONS,
 SPECS, AND CONNECTIONS BEFORE
 CONSTRUCTION BEGINS. HOME TO BE
 BUILT AS PER IRC, UBC OR CURRENT CODE

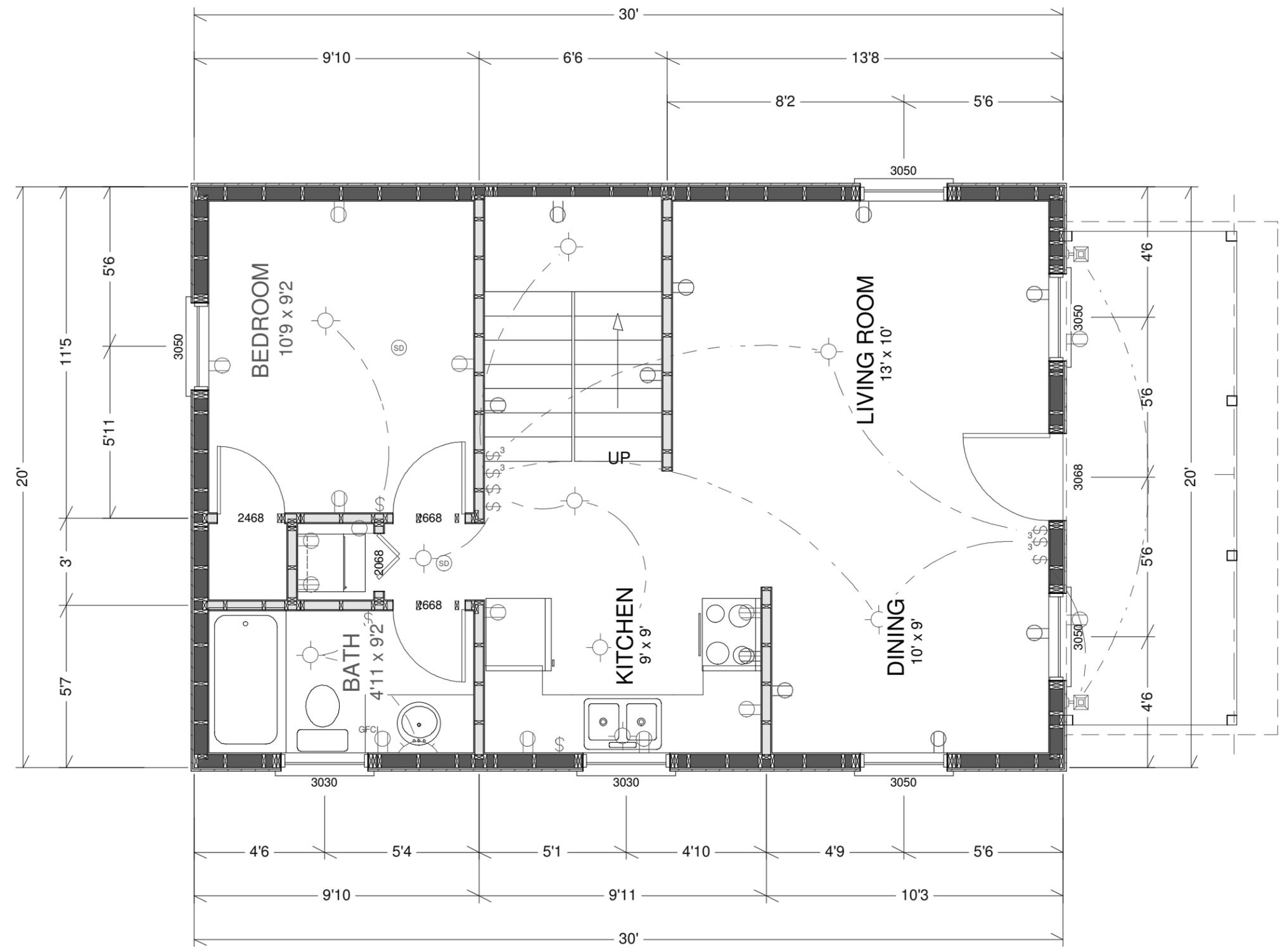
Page 1	Cover Page
Page 2	Main Floor Plan
Page 3	Foundation Plan
Page 4	Second Floor Plan
Page 5	Elevation Plan
Page 6	Whole House Framing Plan
Page 7	Stair Detail Sections
Page 8	Misc Details

To the best of my knowledge these plans are drawn to comply with owner's and/ or builder's specifications and any changes made on them after prints are made will be done at the owner's and / or builder's expence and responsibility. The contractor shall verify all dimensions and enclosed drawing. SDSCAD is not liable for errors once construction has begun. While every affort has been made in the preparation of this plan to avoid mistakes, the maker can not guarantee against human error. The contractor of the job must check all dimensions and other details prior to construction and be solely responsible thereafter. All calculations and member sizing should be verified for your building by a certified building official.

CLIENT _____
 DATE _____
 DRAWN BY _____
 CHECKED BY _____
 DATE _____
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 JOB NO. _____

NUMBER	QTY	FLOOR	SIZE	DIMENSIONS	DESCRIPTION	HEADER
W01	2	1	3030	36"X36"	SINGLE HUNG	2X12X40 (2)
W02	5	1	3050	36"X60"	SINGLE HUNG	2X12X40 (2)

DOOR SCHEDULE					
NUMBER	QTY	FLOOR	SIZE	DIMENSIONS	DESCRIPTION
D01	1	1	2068	24X80"	BIFOLD
D02	1	1	3068	36X80X1 3/4"	EXT. SUNRISE PANEL
D03	1	1	2468	28X80X1 3/8"	HINGED-DEFAULT
D04	2	1	2668	29 7/8X80X1 3/8"	HINGED-DEFAULT



MAIN FLOOR PLAN
SCALE 1/4"=1'

FLOOR FINISH SCHEDULE

Bathroom	
Kitchen	
Bath	
Pantry	
Living Room	
Loft	
All Other Areas	

FOOTING SCHEDULE

HOUSE WALLS	20" x 9" Min
DECKS & PORCHES	18" x 9" Min
BEARING WALL	20" x 9" Min
GARAGE WALL	18" x 9" Min

INSULATION SCHEDULE

Ceilings	R-38 Min
Wall above grade	R-19 Min
Wall interior below grade	R-13 Min

Residential Design

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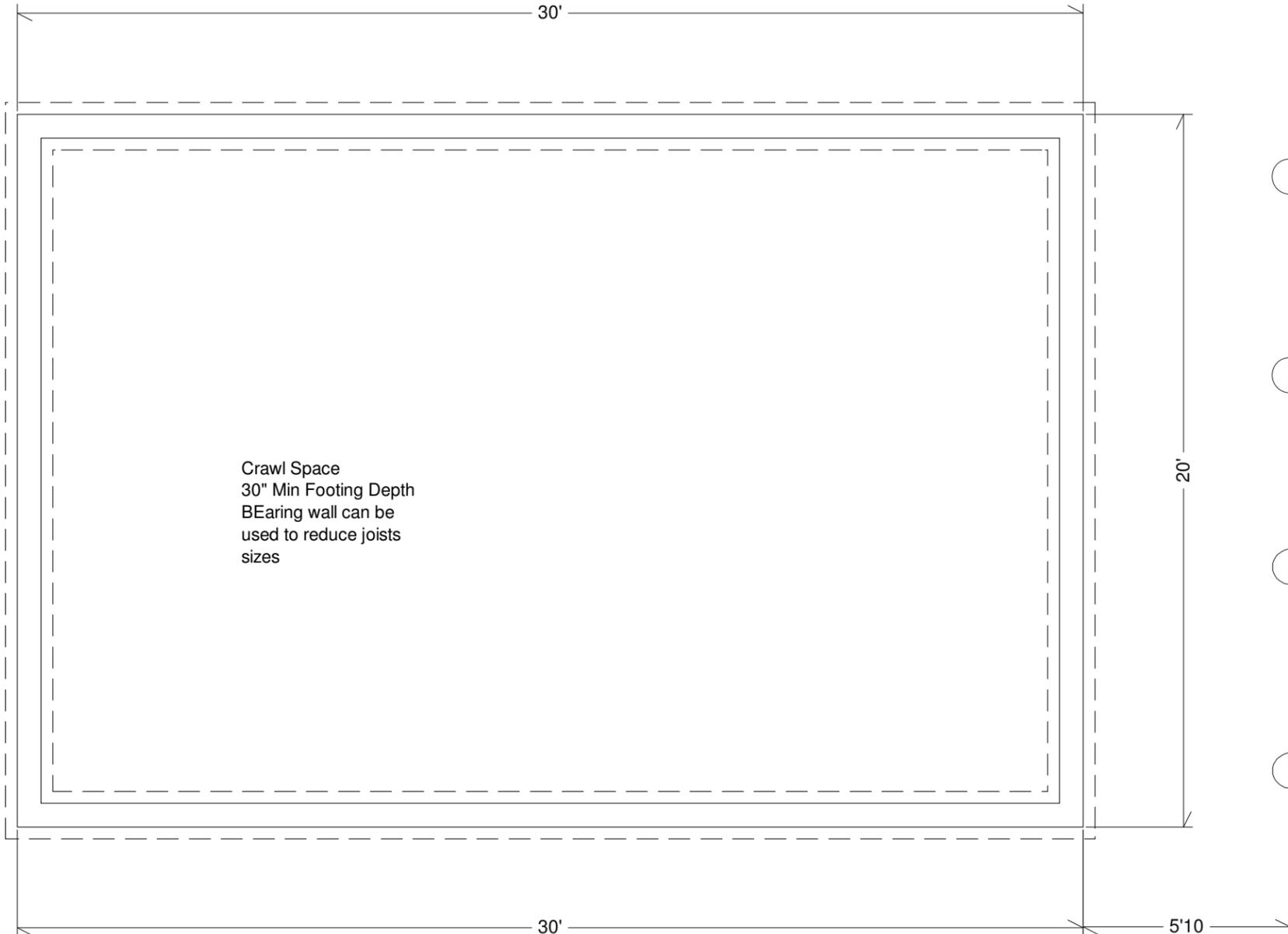
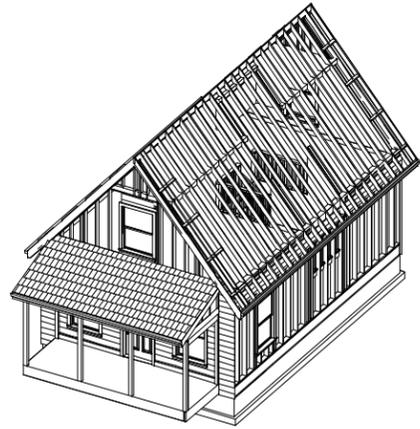
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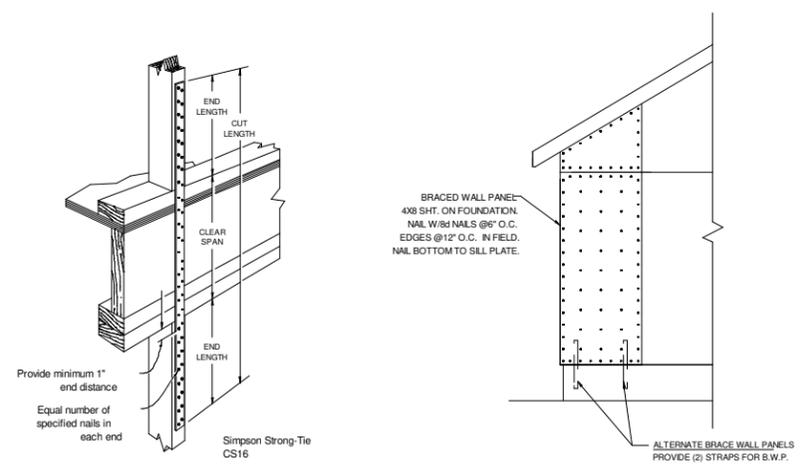
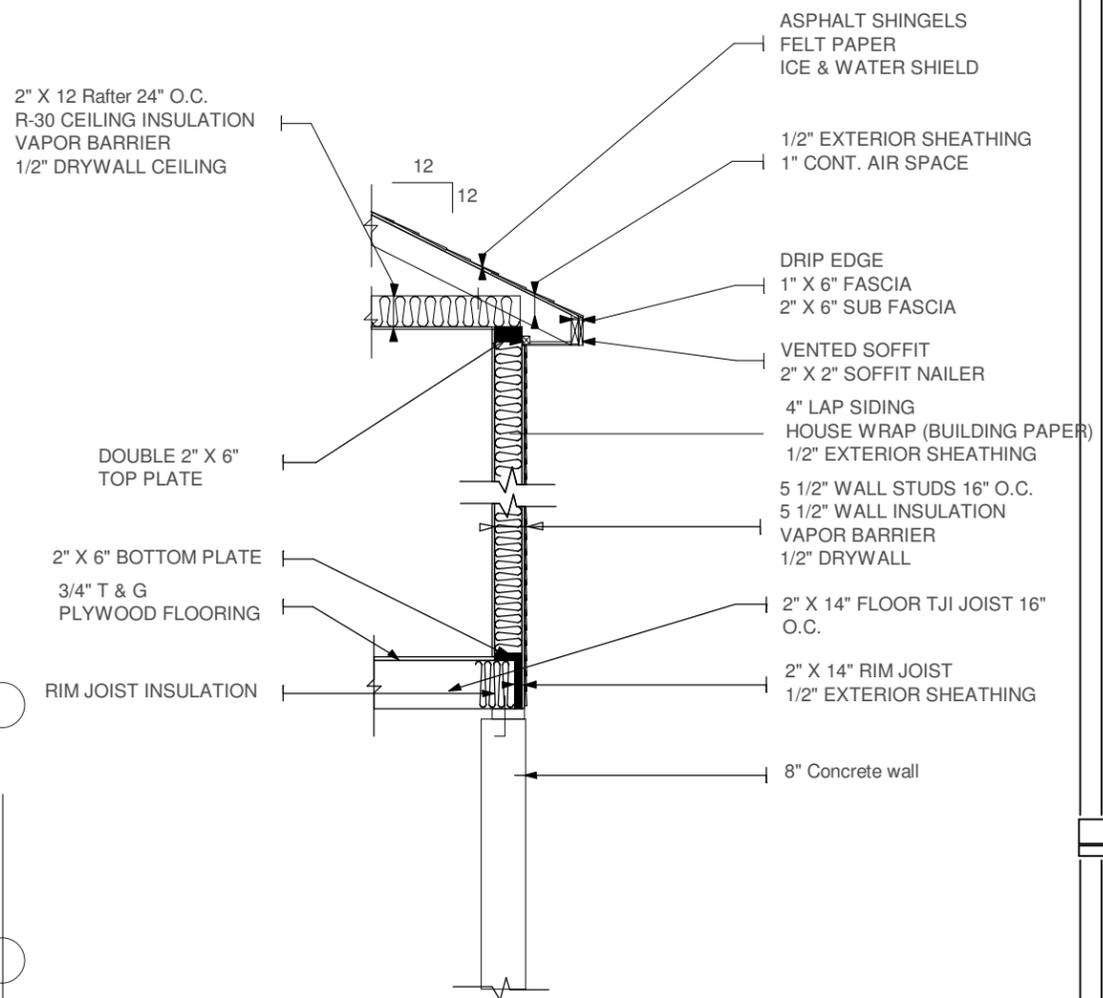
Concrete:

1. All slabs are to be 4" concrete over 4" gravel unless otherwise noted on the plans.
2. Concrete to be ACI 301-66, Type II cement, 2500 psi at 28 days, 5" maximum slump.
3. Reinforcing to be ASTM A615-Bars with Fy=60 ksi and 30 diameter minimum at splices or weld per ACI Std.
4. Concrete design based on Fc 2000 psf, Fc 2500 psi for quality only.



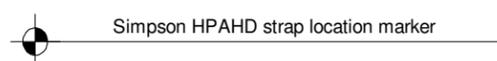
FOUNDATION PLAN

SCALE 1/4"=1'



BRACED WALLS AND ALT BRACED WALL OPTIONS
Brace all exterior walls and cross-stud partitions at each end of building and at least every 25' of length by one of the following:

- a. Simpson WB 126 wall bracing with 3-16d nails at each end and 1-8d nails at each stud.
- b. Plywood sheathing of a minimum thickness of 3/8 inch.
- c. Continuous bracing from floor to floor



Residential Design

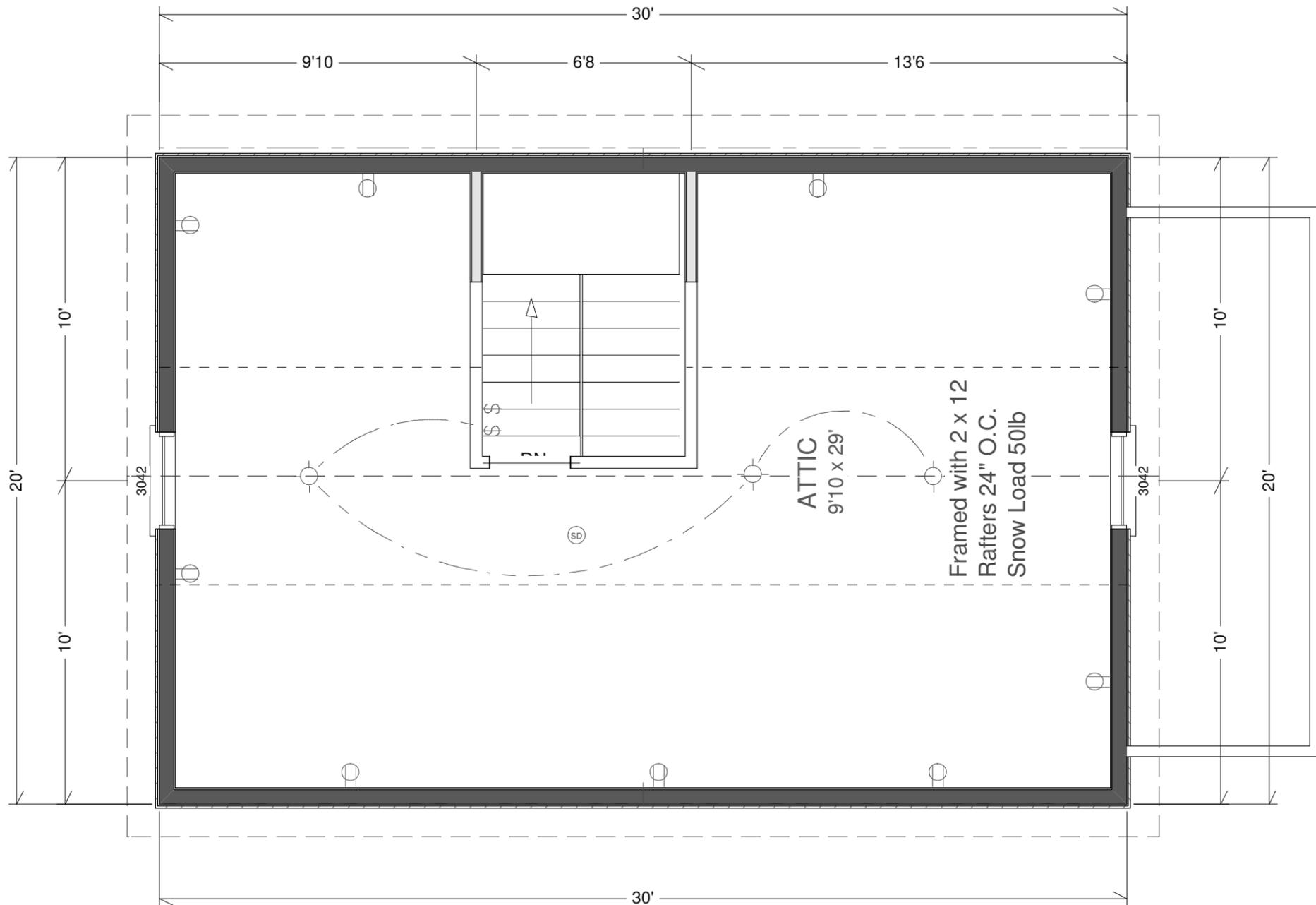
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SHEET NO.	3
	OF
	8

Electrical Systems:

1. Inspection is required prior to backfill of lines.
2. Provide 20 ft. of No. 4 copper wire as ground electrode in foundation footing.
3. Bond interior piping system with #8 bare copper.
4. Provide main jumping bond with #4 bare copper.
5. Electrical service is to be 200 amp service, 120/240 volt, 1 phase raintight, underground.
6. Provide separate 20 amp circuits to washer.
7. Provide 20 amp circuits to family and dining room, and a minimum of two 20 amp circuits to kitchen.
8. Prewire for TV, telephone in kitchen, family room, living room, and in every bedroom.
9. Install ground fault current interrupter on exterior, garage, kitchen, and bathroom convenience outlets.
10. Bottom half of outlet controlled by switch when shown.
11. All outlets in kitchen are to be at +44" excluding those for the refrigerator, range, disposal, and dishwasher.
12. Maximum spacing of outlets shall not exceed 12 ft. along wall line and at any wall ~~24"~~ wide in all rooms except kitchen, bath, utility, and garage.
13. Install light in walk-in closet 18" minimum horizontal from any shelf.
14. Provide a ventilation fan capable of producing a change of air every 12 minutes for bath or utility.
15. Provide smoke detector alarm conforming to Section 1210(A) U.B.C. and local building codes in every bedroom and on each floor.
16. CO2 Detector on each floor.

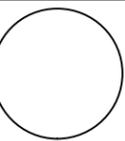


SCALE 1/4"=1'

SECOND FLOOR PLAN

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	METER SOCKET
	PANEL BOX
	CEILING FAN W/ LIGHT
	FLUORESCENT LIGHT FIXTURE
	110V CEILING LIGHT FIXTURE
	110V RECESSED LIGHT FIXTURE
	110V EAVE LIGHT FIXTURE
	110V CHANDILIER LIGHT FIXTURE
	110V WALL LIGHT FIXTURE
	SINGLE POLE SWITCH
	THREE WAY SWITCH
	FOUR WAY SWITCH
	DIMMER SWITCH
	OUTDOOR SWITCH
	110V DUPLEX RECEPTACLE
	110V DUPLEX RECEPTACLE GROUND FAULT INTERRUPTED
	110V DUPLEX RECEPTACLE W/ WEATHERPROOF COVER
	110V FLOOR MOUNTED DUPLEX RECEPTACLE
	240V RECEPTACLE
	TELEPHONE JACKS
	TELEVISION JACKS
	DOOR BELL PUSH BUTTON
	THERMOSTAT
	SMOKE DETECTOR
	EXHAUST FAN
	DOOR CHIME
	FIRE ALARM PANEL
	COMPUTER POINT

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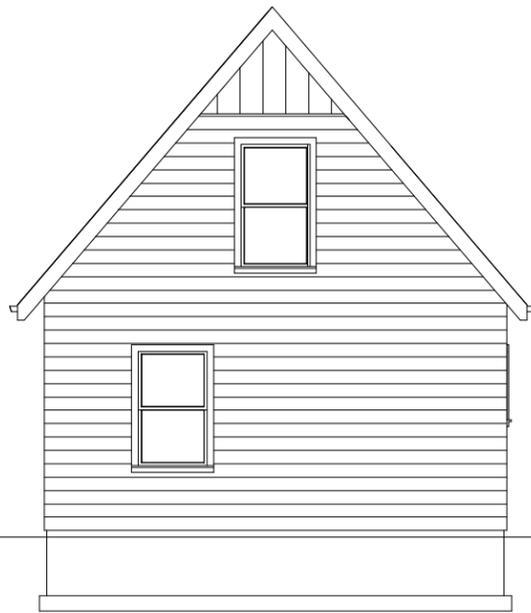
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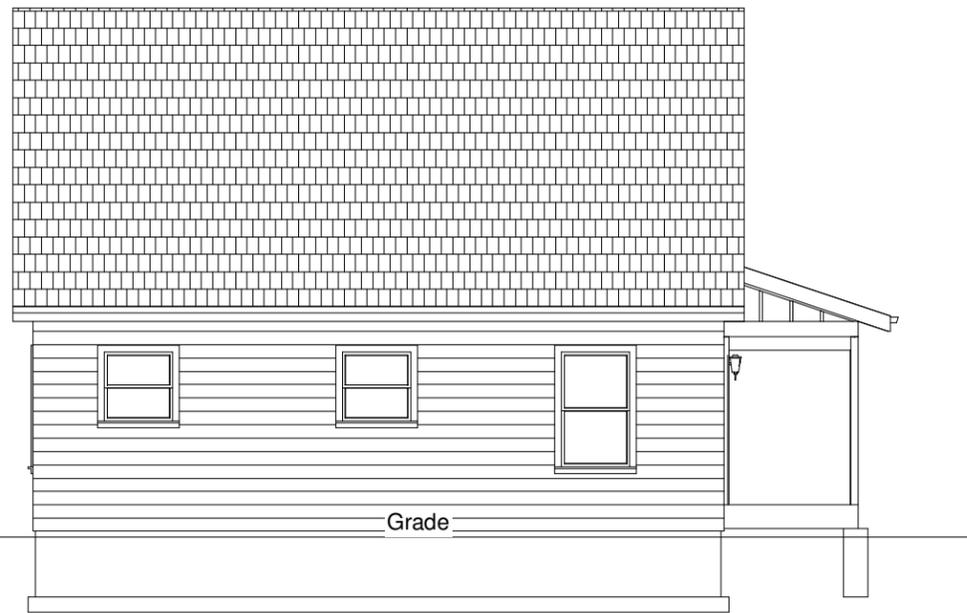
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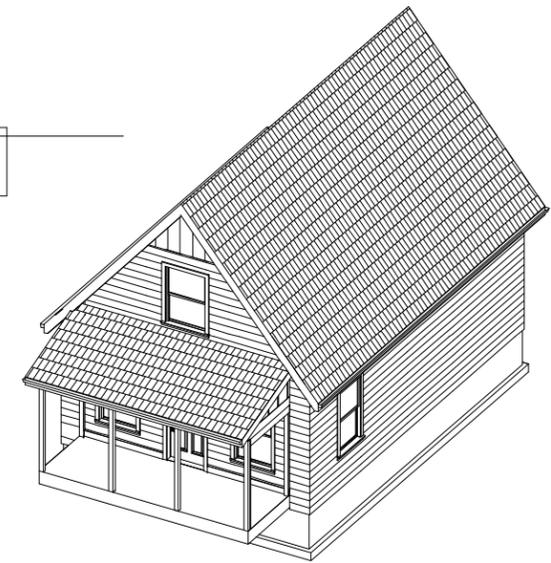
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REAR ELEVATION



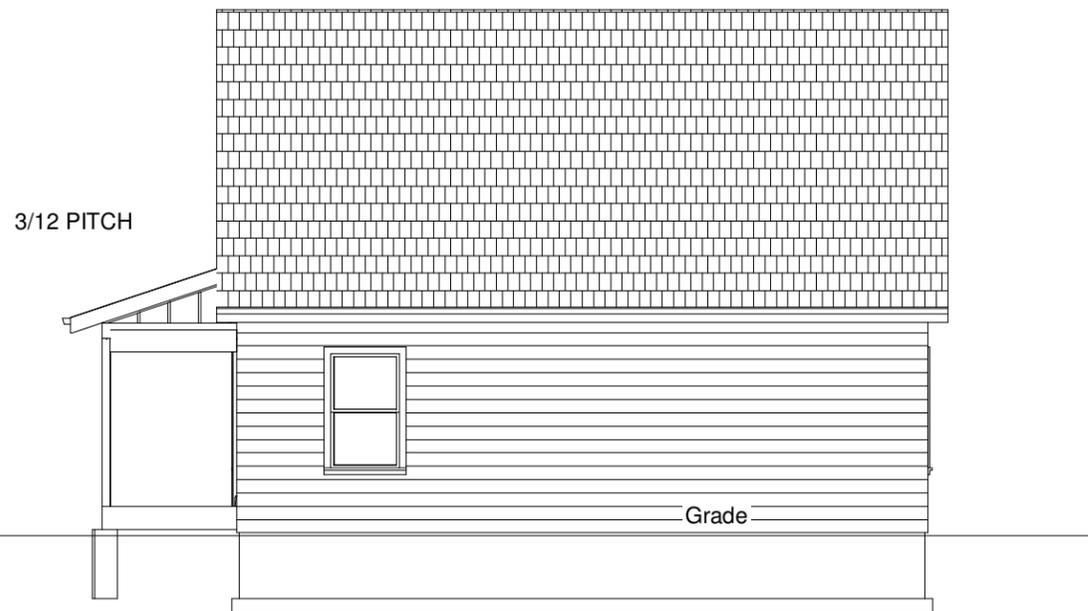
LEFT ELEVATION



FRONT ELEVATION

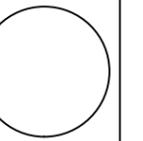
ARCHITECTURAL
ASHPHALT
SHINGLES
OR METAL ROOF

WOOD SIDING
OVER
STRUCTURAL
PANEL



RIGHT ELEVATION

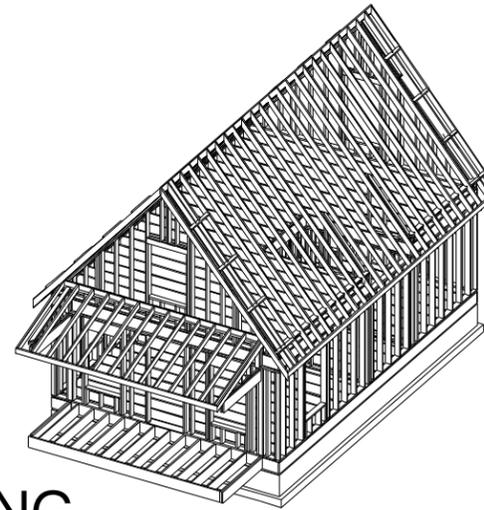
SCALE 1/8"=1'



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Roof Framing:

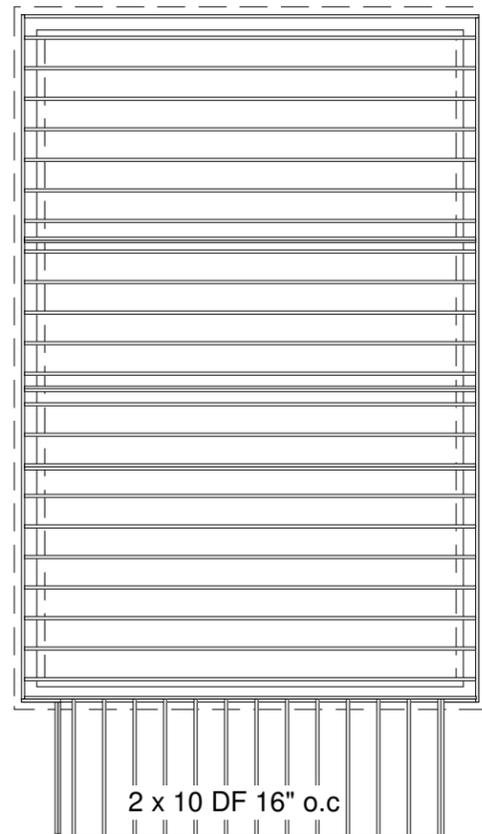
1. Fascia to be 2"x Douglas Fir.
2. For soffit size see details.
3. For spans and dimensions refer to floor plans.
4. Trusses are to be an approved truss design from the truss manufacture's engineer.
Install as per engineers specs
5. Use Simpson H-1 hurricane anchors at each truss or rafter to wall connection.
6. Solid blocking required between joists, rafters, and trusses over all bearing walls.
Such blocking shall be 1 1/2" minimum thickness and full depth of joists, rafters, or trusses.
7. Minimum header sizes shall be according to the header size table unless otherwise noted.
8. Basis of design roof live/snow load of 37 psf, and roof dead load of 15 psf.
9. Plywood roof decking to be Min 1/2" thick, 24/0, CDX or 5/8 wafer.



MAIN FLOOR FRAMING

SCALE 1/16"=1'

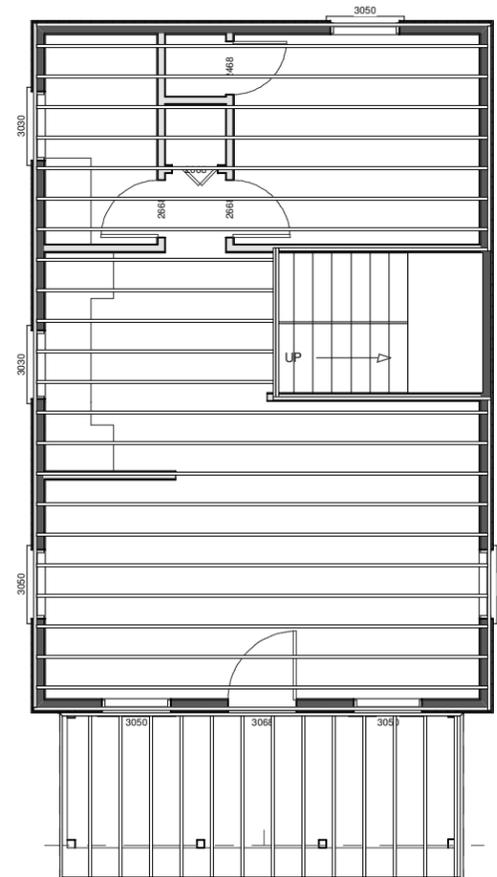
11 7/8" I-Joists 16" o.c



2ND FLOOR FRAMING

SCALE 1/16"=1'

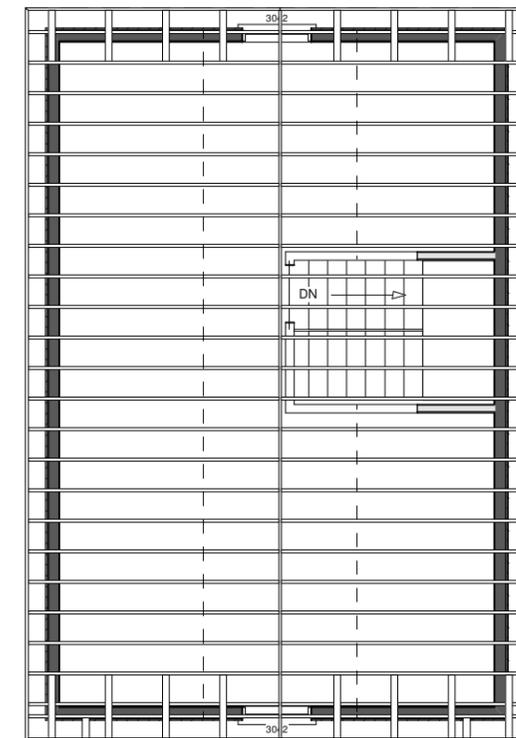
11 7/8" I-Joists or
2 x 12 DF 16" o.c



ROOF FRAMING

SCALE 1/16"=1'

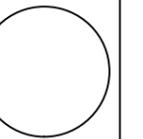
12/12 Pitch
2 x 12 " Roof-Joists Rafters
24" o.c 50lb snow load



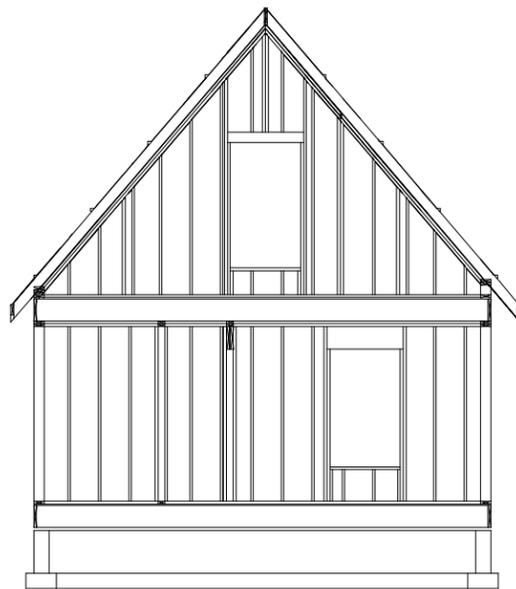
3 1/2 x 14 LVL Ridge Beam
2 Support Posts to Footing
Max Clear span 15'

SEE GENERAL SPECS AND
NOTES FOR FRAMING DETAILS

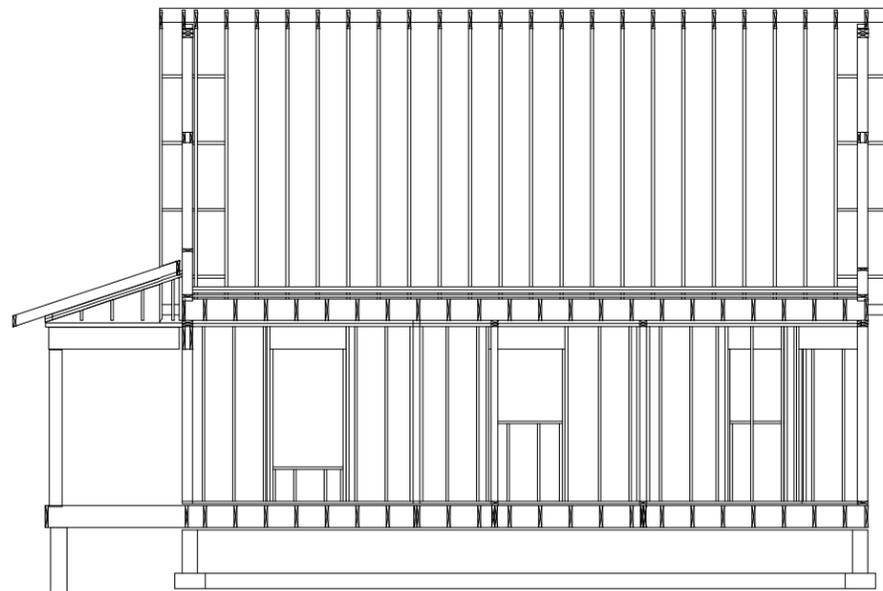
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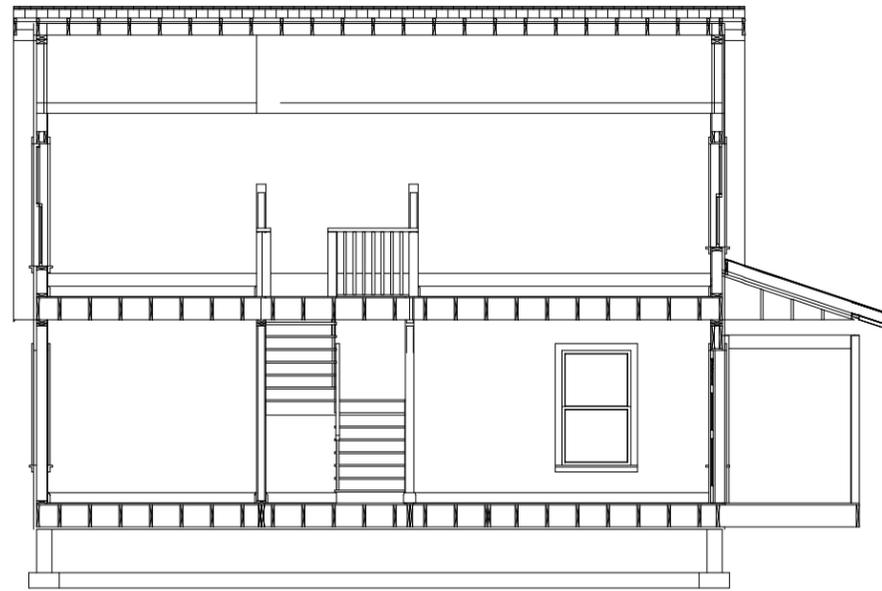
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General framing: (Douglas Fir)



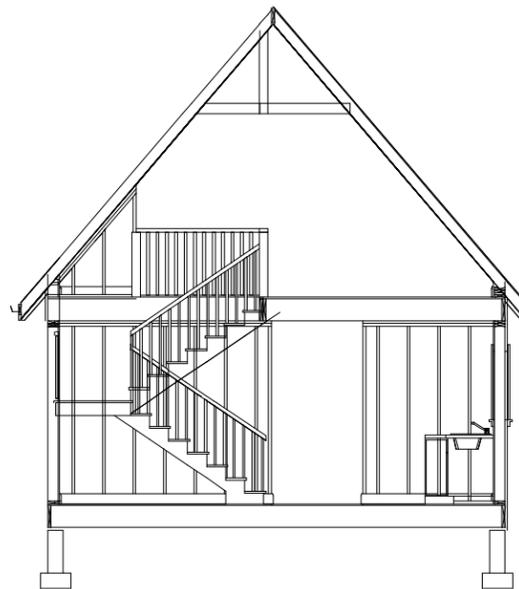
SCALE 1/8"=1'



1. Minimum header sizes shall be according to the following table unless otherwise noted.
Header sizes (single story construction)
2'-0" to 4'-0" Span 2-2x4's
4' + to 6'-0" Span 2-2x6's
6' + to 8'-0" Span 2-2x8's
8' + to 10'-0" Span 2-2x10's
10' + to 12'-0" Span 2-2x12's
Header sizes (two story construction)
2'-0" to 3'-0" Span 2-2x4's
3' + to 5'-0" Span 2-2x6's
5' + to 7'-0" Span 2-2x8's
7' + to 8'-0" Span 2-2x10's
2. Brace all exterior walls and cross-stud partitions at each end of building and at least every 25' of length by one of the following:
 - a. Simpson WB 126 wall bracing with 3-16d nails at each end and 1-8d nails at each stud.
 - b. Plywood sheathing of a minimum thickness of 3/8 inch.
3. Fire stopping:
 - a. Fireblock stud spaces over 10' in height, furred spaces, soffits, drop ceilings, cove ceilings, stair stringers at top and bottom of run, bearing walls and ceiling joist lines, etc. Firestopping shall consist of 2" nominal lumber.
 - b. Firestop openings around vents, pipes, ducts, chimneys, and fireplaces at ceiling and floor levels with approved noncombustible materials.
4. CDX plywood is not approved where exposed to weather, i.e., roof overhangs.
5. Exterior wall framing to be 2"x6" studs at 16" o.c. Interior wall, framing at non-bearing walls to be 2"x4" studs at 24" o.c. and at bearing walls 2"x4" studs at 16" o.c. with double top plate.
6. Shear wall to be 3/8" CDX plywood applied horizontally.
7. All stress grade lumber shall comply with WCLA specs and bear approval stamp on all pieces in place.
8. Framing lumber shall be Douglas Fir construction grade Fb 1450 or better unless otherwise noted.
9. Nailing to be per current U.B.C. unless otherwise noted.
10. All bearing partitions shall have double top plates.
11. Structural glued laminated timbers to be stamped by an approved agency.
12. Use redwood or pressure treated sole plates at all exterior walls.

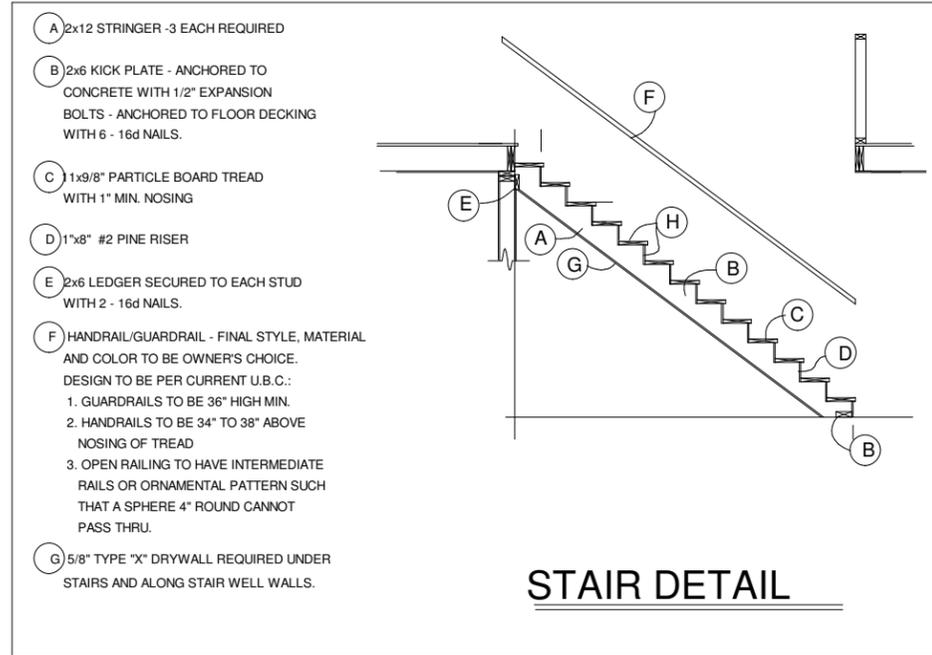
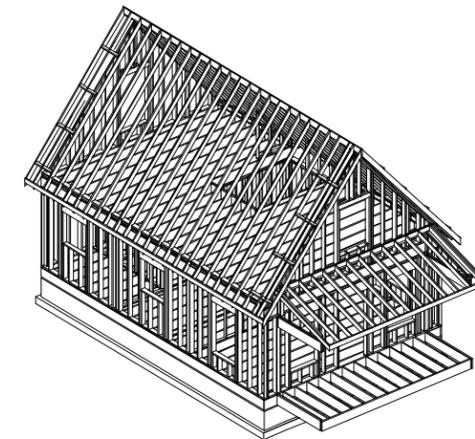
Floor Framing:

1. All floor joist to be Douglas Fir #2 or T.J.I. @ 16" o.c. unless otherwise noted.
2. For spans and dimensions refer to floor plans.
3. Use Simpson H 2.5 hurricane anchors at each floor joist to bearing wall connection.
4. Solid blocking between joists over all bearing walls, and midspans such blocking shall be 2" minimum thickness and full depth of joists.
5. Minimum header sizes shall be according to the header size table unless otherwise noted.
6. Basis of design: floor live load of 40 psf, and floor dead load of 15 psf.
7. Floor decking to be 3/4" thick T & G wafer board.
8. Joist hangers to be Simpson U210 or equal unless otherwise noted.
9. Double joists and or double blocking at all interior walls.



SCALE 1/8"=1'

FULL HOUSE FRAMING SECTION



- (A) 2x12 STRINGER - 3 EACH REQUIRED
- (B) 2x6 KICK PLATE - ANCHORED TO CONCRETE WITH 1/2" EXPANSION BOLTS - ANCHORED TO FLOOR DECKING WITH 6 - 16d NAILS.
- (C) 1x9/8" PARTICLE BOARD TREAD WITH 1" MIN. NOSING
- (D) 1"x8" #2 PINE RISER
- (E) 2x6 LEDGER SECURED TO EACH STUD WITH 2 - 16d NAILS.
- (F) HANDRAIL/GUARDRAIL - FINAL STYLE, MATERIAL AND COLOR TO BE OWNER'S CHOICE. DESIGN TO BE PER CURRENT U.B.C.:
1. GUARDRAILS TO BE 36" HIGH MIN.
2. HANDRAILS TO BE 34" TO 38" ABOVE NOSING OF TREAD
3. OPEN RAILING TO HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERN SUCH THAT A SPHERE 4" ROUND CANNOT PASS THRU.
- (G) 5/8" TYPE "X" DRYWALL REQUIRED UNDER STAIRS AND ALONG STAIR WELL WALLS.

STAIR DETAIL

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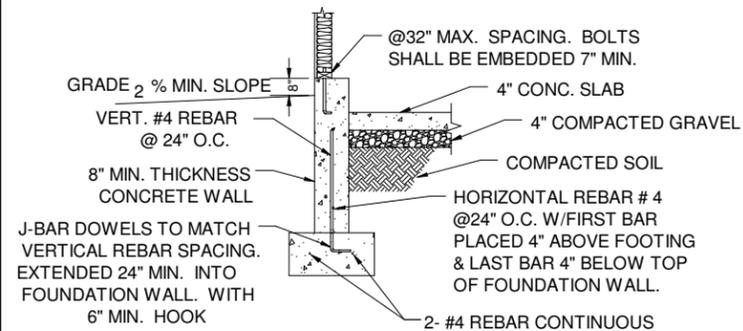
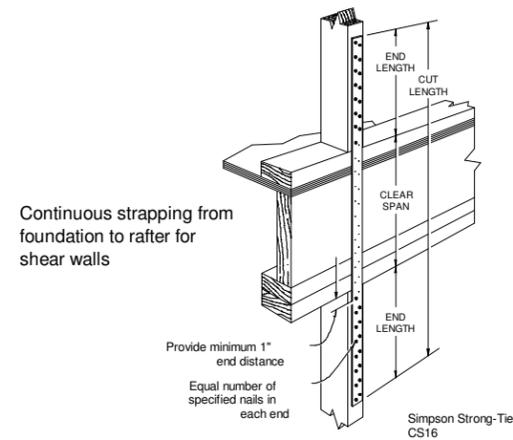
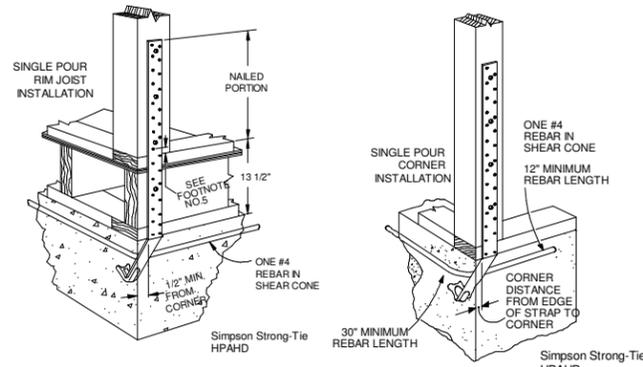
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SEE FOUNDATION PLAN FOR LOCATIONS OF SIMPSON STRAPS

HD1 = HPAHD22 Simpson Hold Downs
HD2 = STHD14RJ Simpson Hold Downs

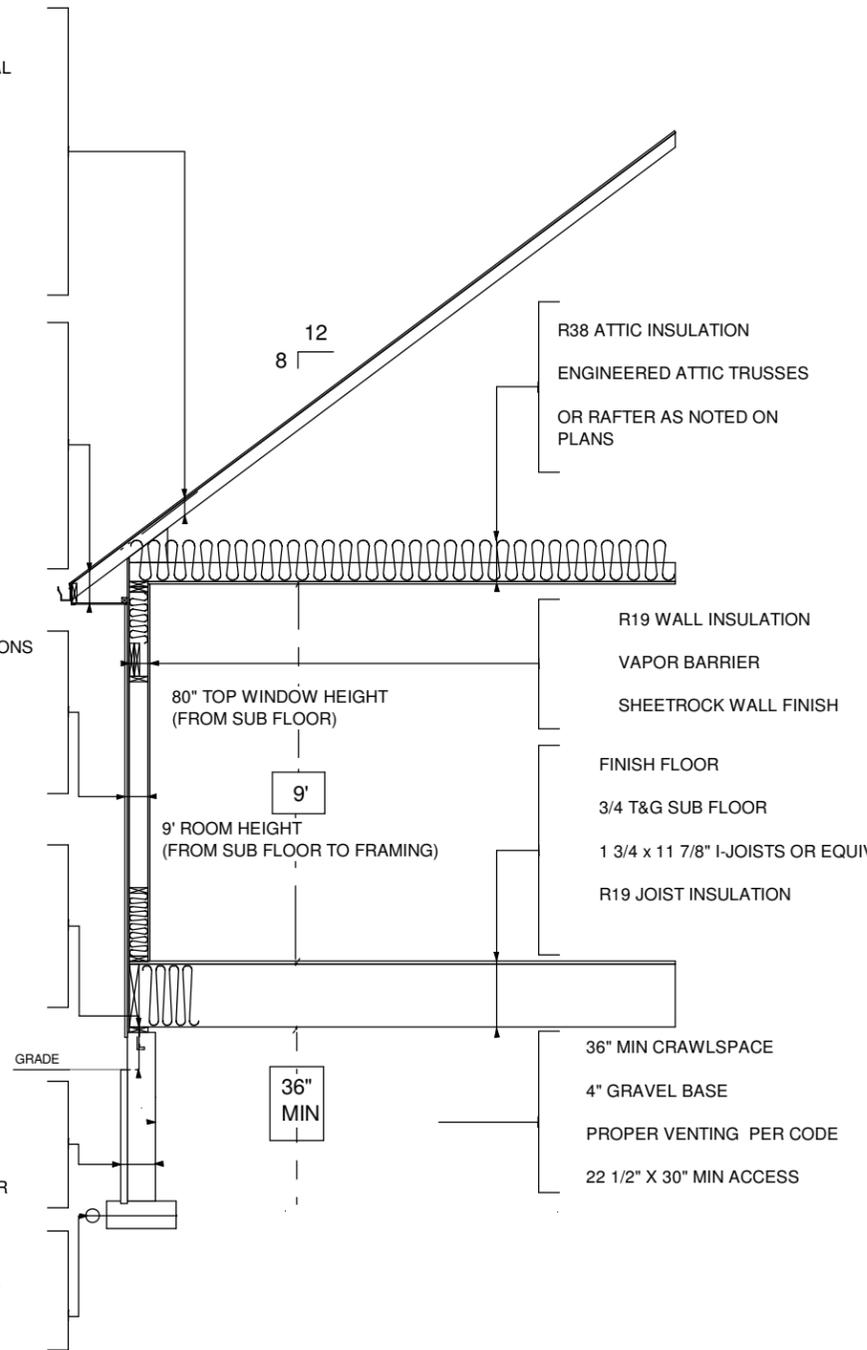


TYP WALL SECTION

- ASPHALT SHINGLES ROOFING MATERIAL
- 30# ROOFING PAPER
- 5/8" Min ROOF DECKING
- ENGINEERED TRUSSES
- VENT PER CODE VENTILATION
- METAL DRIP EDGE
- RAIN GUTTERS
- 2 x 6 SUB FASCIA
- 12" METAL FASCIA
- 1 FT. OVERHANG
- METAL VENTED SOFFIT

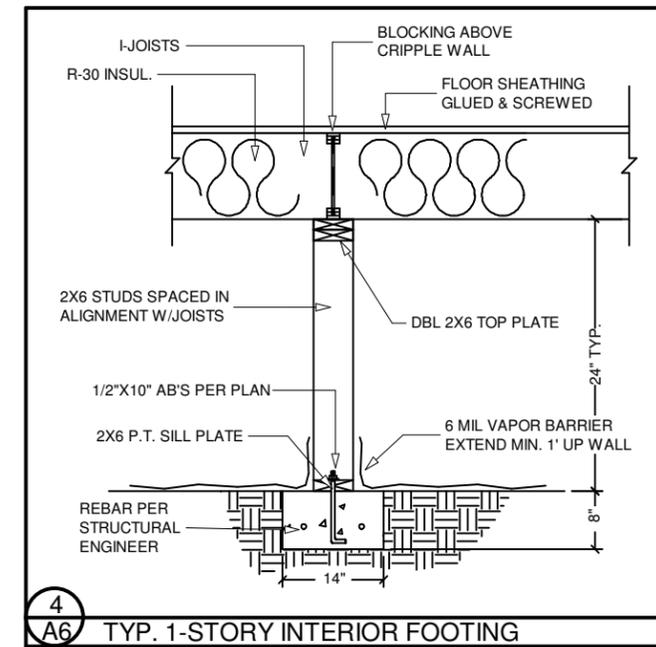
- EXT. WALL FINISH AS PER ELEVATIONS
- TYVEK HOUSE WRAP
- 7/16 MIN WALL SHEATHING
- 2 x 6 FRAMING 16 O.C.
- A-307 ANCHOR BOLTS
- 2 x 6 TREATED SILL PLATE
- FOAM SILL SEAL
- 6" MIN TO GRADE HEIGHT

- WATERPROOFING TO GRADE
- 8" FOUNDATION WALL
- A-615 RE-BAR 24" OC VERT & HOR
- 4" DRAIN TILE
- 9" x 20" MIN CONCRETE FOOTING
- A-615 RE-BAR

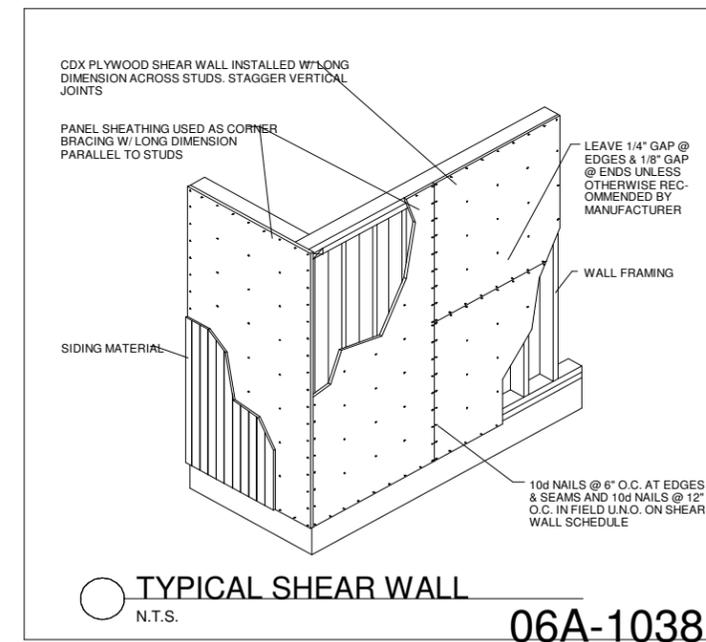


ONE STORY WALL SECTION STANDARD PLATFORM FRAMING

SCALE:NO SCALE



4
A6 TYP. 1-STORY INTERIOR FOOTING



TYPICAL SHEAR WALL
N.T.S.

06A-1038

- Brace all exterior walls and cross-stud partitions at each end of building and at least every 25' of length by one of the following:
- a. Simpson WB 126 wall bracing with 3-16d nails at each end and 1-8d nails at each stud.
 - b. Plywood sheathing of a minimum thickness of 3/8 inch.

ID	Sub Cat	Flr	Size	Description	Count	Extra	Unit	Price	Tot Cost
91	Roofing								
92	R1		1 2x8"-18'	ridge board - lumber	1	0			
93	R2		1 2x6"-16'+	rafters - lumber	114	0	ft		
94	R3		1 2x6"-18'	rafters - lumber	2	0			
95	R4		1 bend to slope	roof/wall flashing	18	0	ft		
96	R5		1	ridge cap	32	0	ft		
97	R6		1	roofing tiles	548.00	0.00	sq ft		
98	R7		1	wood shingles	684.00	0.00	sq ft		
99	R8		1 4x8' sheets	roof sheathing	39	0			
100	R9		1 2x8"	gable fascia	84	0	ft		
101	R10		1 2x8"	eave fascia	99	0	ft		
102	R11		1	metal drip edge	183	0	ft		
103	R12		1	gutter	99	0	ft		
104	R13		1	downspout	4	0			
105	R14		2 2x8"-16'+	ridge board - lumber	32	0	ft		
106	R15		2 2x6"-18'	rafters - lumber	52	0			
107	R16		2 2x6"-32'	rafters - lumber	2	0			
108	R17		2 2x4"-16'+	rafters - lumber	39	0	ft		
109									Subtotal:
110	Insulation								
111	IN1		0 12x16x48" batts	ceiling insulation	1	0			
112	IN2		1 12x16x48" batts	ceiling insulation	12	0			
113	IN3		1 12x16x48" batts	floor insulation	131	0			
114	IN4		1 12x16x48" batts	roof insulation	39	0			
115	IN5		1 6x16x93" batts	wall insulation	54	0			
116	IN6		2 12x16x48" batts	ceiling insulation	100	0			
117	IN7		2 6x16x93" batts	wall insulation	22	0			
118									Subtotal:
119	Flooring								
120	FL1		1	landing floor	20.00	0.00	sq ft		
121	FL2		1	vinyl floor	45.00	0.00	sq ft		
122	FL3		1	Color 2, Floor	494.00	0.00	sq ft		
123	FL4		1 11 1/2" wide	wood siding 3	114	0	ft		
124	FL5		2	Color 2, Floor	493.00	0.00	sq ft		
125									Subtotal:
126	Wall Brd								
127	WB1		1 4'x8'x1/2"	sheetrock	54	0			
128	WB2		1 4'x8'x1/2"	(wp) - sheetrock	2	0			
129	WB3		1	Color 22, Ceiling, Electrical	481.00	0.00	sq ft		
130	WB4		1	Color 1, Walls/Soffits, Frar	220.00	0.00	sq ft		
131	WB5		2 4'x8'x1/2"	sheetrock	11	0			
132	WB6		2	Color 22, Ceiling, Electrical	184.00	0.00	sq ft		
133	WB7		3 4'x8'x1/2"	sheetrock	2	0			
134									Subtotal:
135	Windows								
136	W1		1 36x60	single hung	5	0			
137	W2		1 36x36	single hung	2	0			
138	W3		2 36x50-eg	single hung	1	0			
139	W4		2 36x50	single hung	1	0			
140									Subtotal:
141	Doors								
142	D1		1 36x80x1 3/4R	ext. Sunrise Panel	1	0			
143	D2		1	hinge: hidden	9	0			
144	D3		1 29 7/8x80x1 3/8R	hinged-default	1	0			
145	D4		1 28x80x1 3/8L	hinged-default	1	0			
146	D5		1 29 7/8x80x1 3/8L	hinged-default	1	0			
147	D6		1 24x80	bifold	1	0			
148									Subtotal:
149	Cabinets								
150	C1		1 BD4536	bath base cab	1	0			
151	C2		1 43 1/2x6 1/4"	bath cab. drawer	1	0			
152	C3		1 21 11/16x21 3/4"	bath cab. door	2	0			
153	C4		1	hidden cab. hinge	16	0			
154	C5		1	countertop - color 6, count	8.00	0.00	sq ft		
155	C6		1	front cap (bath)	6	0	ft		
156	C7		1 CBD3636	cnr base cab	2	0			
157	C8		1 10 1/2x28 3/4"	cab. door	4	0			
158	C9		1	countertop - color 6, count	23.00	0.00	sq ft		
159	C10		1	countertop front cap	11	0	ft		
160	C11		1 BS4236	base cab	1	0			
161	C12		1 40 1/2x6 1/4"	cab. drawer	1	0			
162	C13		1 20 3/16x21 3/4"	cab. door	2	0			
163									Subtotal:
164	Int Trim								
165	T1		1 1x4-16ft+	window apron	25	0	ft		
166	T2		1 1x4-16ft+	sill	25	0	ft		
167	T3		1 1x4-16ft+	interior casing	243	0	ft		
168	T4		1 4 in	interior jamb	67	0	ft		
169	T5		1 4" wide	int. railing	9	0	in		
170	T6		1 4" wide	railing shoe	9	0	in		
171	T7		1 4x8 in	beam over rail	7	0	ft		
172	T8		1 1 1/2" diam.	square baluster	1	0			
173	T9		1 4" square	support post	2	0			
174	T10		1 37x11-1"	stair tread	14	0			
175	T11		1 37x6 3/4"	riser	14	0			
176	T12		1 2" wide	int. railing	262	0	in		
177	T13		1 1 3/16" diam.	square baluster	40	0			
178	T14		1 7 treads	stair stringer	4	0			
179	T15		1 2x10"	landing joists - fir	24	0	ft		
180	T16		1 1x8"	landing rim trim	19	0	ft		

