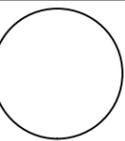


## Custom Cabin Design Plan #236 Tagg Cabin By SDS-CAD Specialized Design Systems

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	Floor and Roof Framing Plan
Page 7	Whole House Framing Section
Page 8	Cabinet & Stair Details
Page 9	Main Floor Electrical
Page 10	Second Floor Electrical
Page 11	Detailed House Section

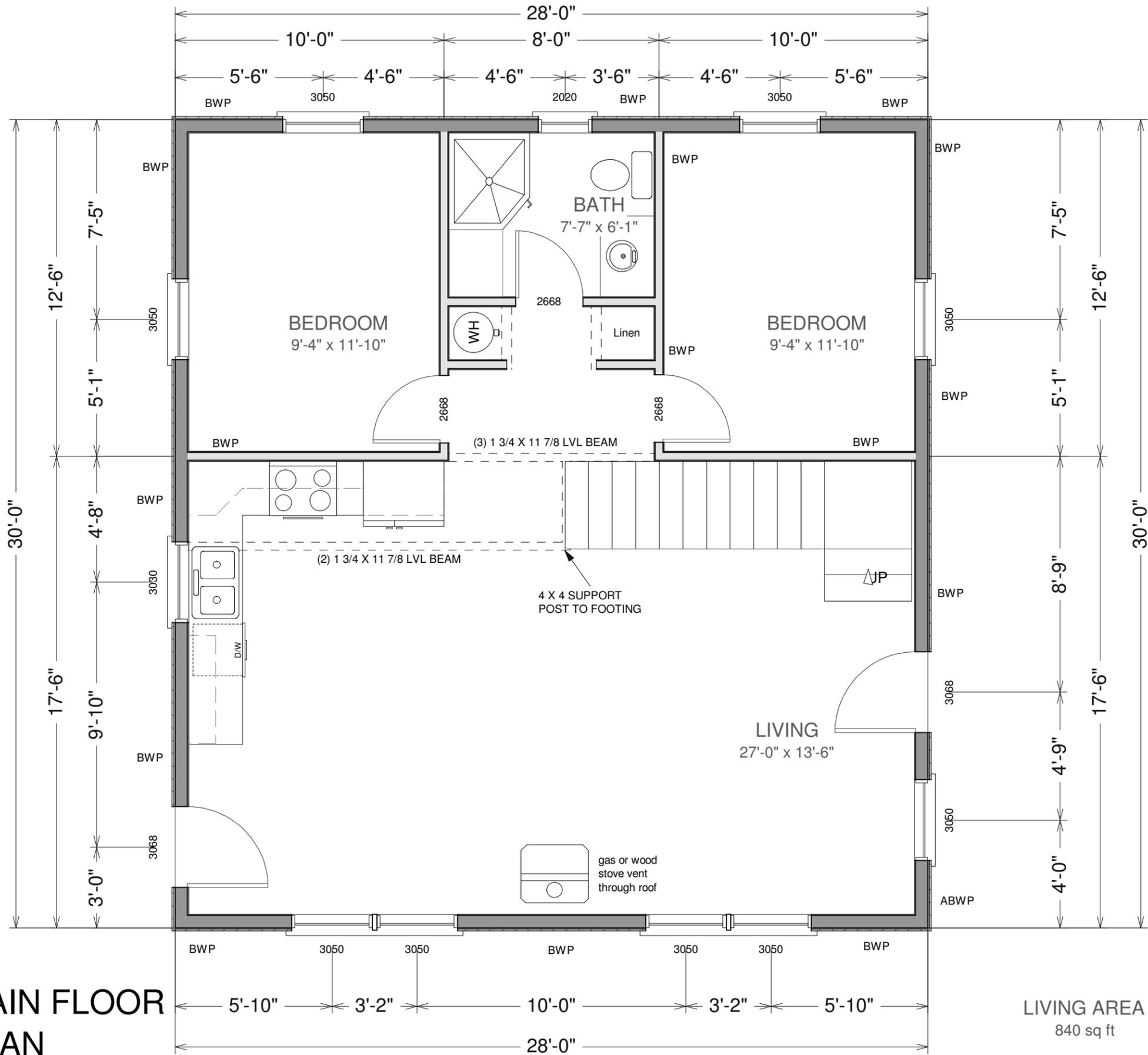
To the best of my knowledge these plans are drawn to comply with owner's and/ or builder's specifications and any changes made on them after prints are made will be done at the owner's and / or builder's expence and responsibility. The contractor shall verify all dimensions and enclosed drawing. SDSCAD is not liable for errors once construction has begun. While every effort 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.



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REVISIONS \_\_\_\_\_

# MAIN FLOOR PLAN

SCALE 1/4"=1'



LIVING AREA  
840 sq ft

## VENTING SCHEDULE

Range Hoods	Vent Through Roof
All Bath Fans	Vent to Exterior
Dryer Vent	Vent to Exterior

ATTIC VENTILATION:  
AREA / 300

PROVIDE 1" MIN. AIR GAP AT EAVES WITH INSULATION BAFFELS TYP. AT ALL TRUSS BAYS.

PROVIDE GABLE VENTS ALL GABLE ENDS.

PROVIDE GALV. ROOF VENTS ON BACKSIDE OF ROOFLINE ABOVE CONDITIONED AREA.

## 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

Min 2 #4 Rebar Horizontal on undisturbed or compacted soil

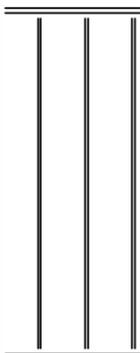
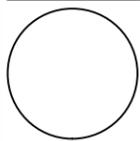
## INSULATION SCHEDULE

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

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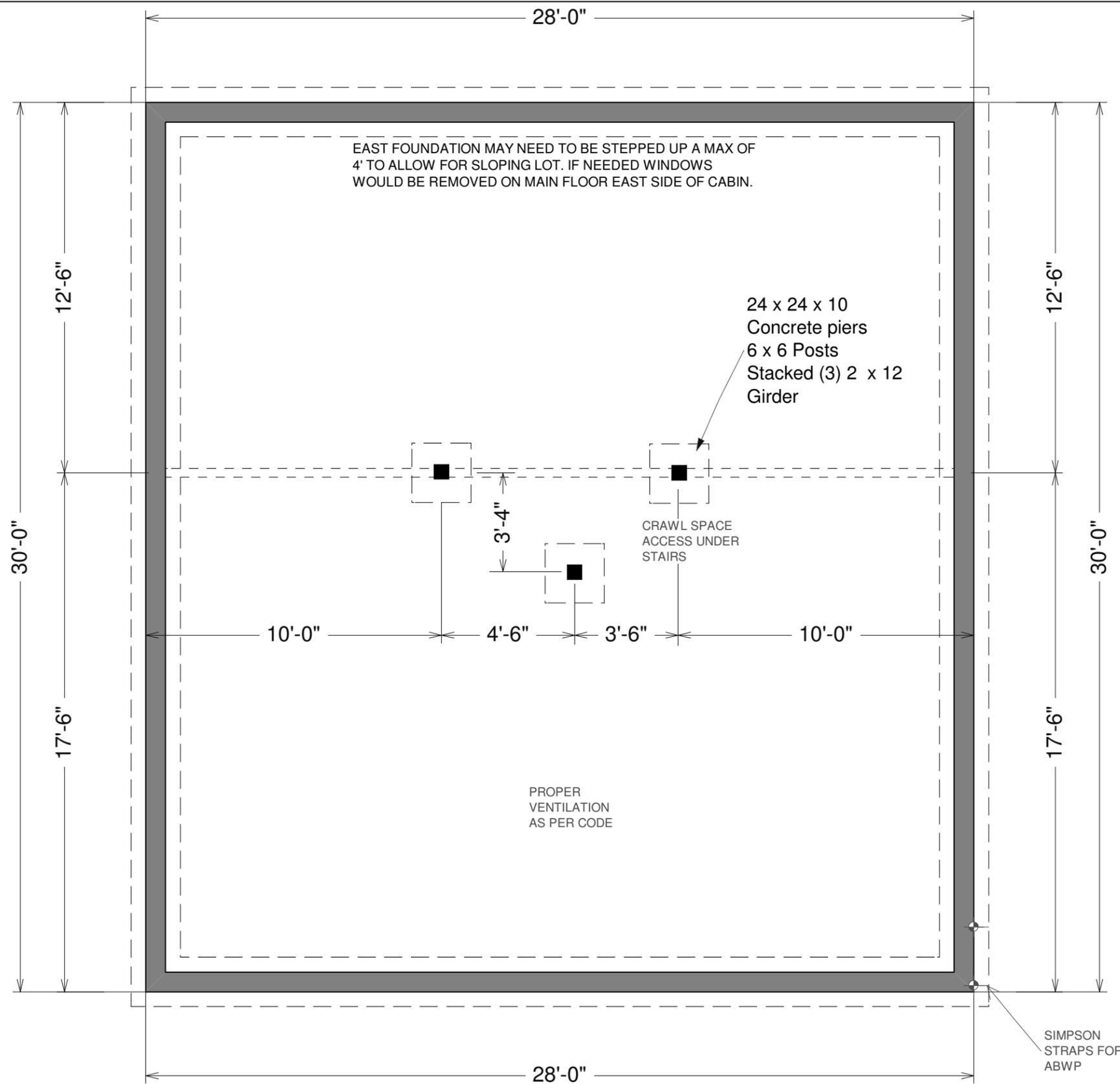


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OF 11

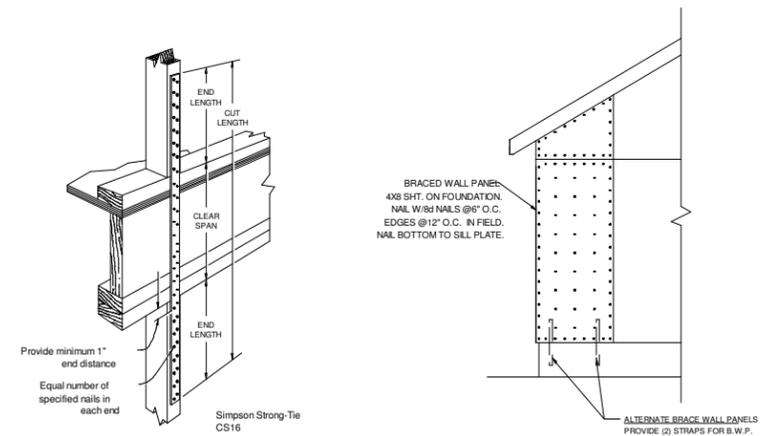
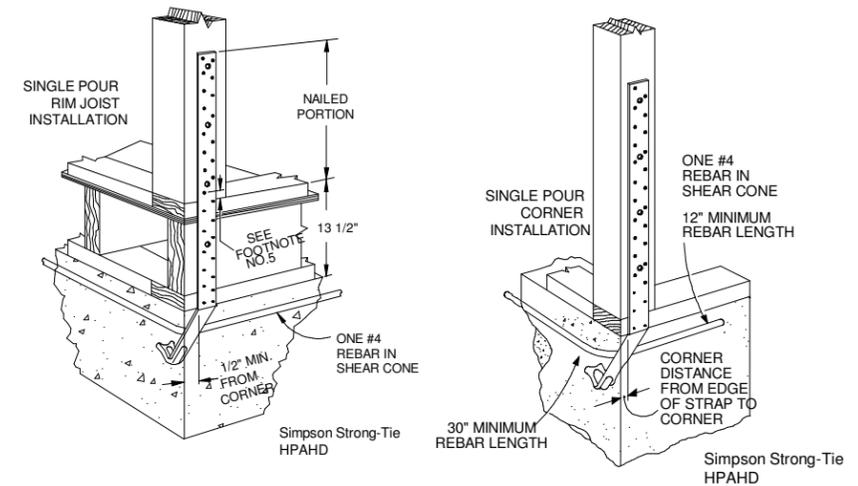
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**Concrete:**

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 lap 30 diameter minimum at splices or weld per ACI Std.
4. Concrete design based on Fc 2000 psf, Fc 2500 psi for quality only.
5. Anchor bolts shall be A-307 embedded 7" minimum into concrete or masonry grout.

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



**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



ABWP - Alternate Braced Wall Panels  
 may be substituted with Simpson Strong Walls

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SCALE 1/4"=1'

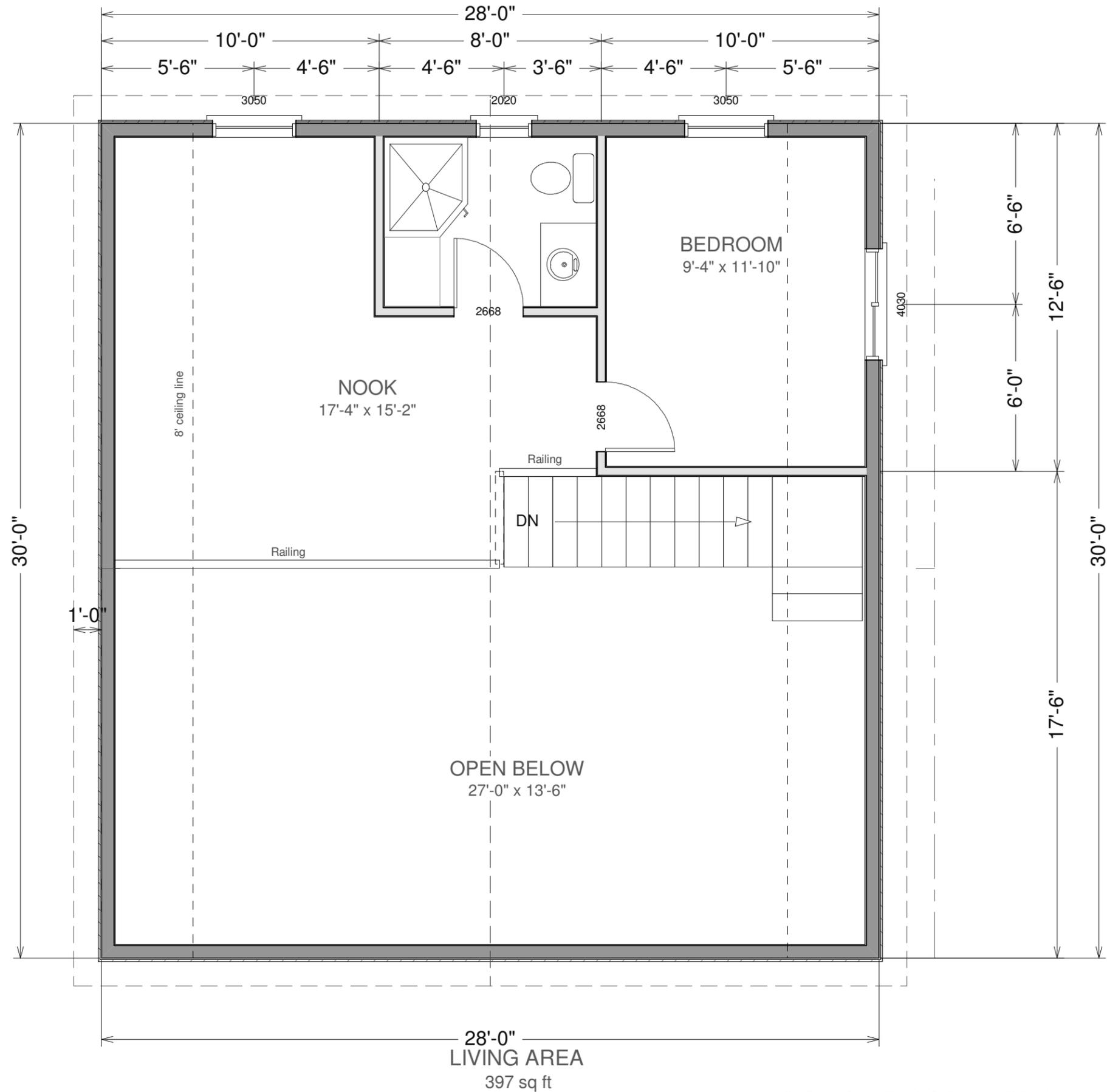
**FOUNDATION PLAN**

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CABINET SCHEDULE				
NUMBER	QTY	FLOOR	DIMENSIONS	DESCRIPTION
C01	1	1	36X24X36 "	BATH BASE CAB
C02	1	1	36X24X36 "	BASE CAB
C03	1	1	24X24X30 "	CRNR WALL CAB
C04	1	1	36X24X15 "	WALL CAB
C05	1	1	36X36X36 "	CRNR BASE CAB
C06	1	1	12X24X36 "	BASE CAB
C07	1	1	30X24X36 "	BASE CAB
C08	2	1	12X12X30 "	WALL CAB
C09	2	1	24X12X30 "	WALL CAB
C10	1	1	30X12X18 "	WALL CAB
C11	1	2	36X24X36 "	BASE CAB
C12	1	2	30X24X84 "	UTIL CAB
C13	1	1	30X24X84 "	BATH UTIL CAB
C14	1	1	24X24X36 "	BASE CAB

DOOR SCHEDULE				
NUMBER	QTY	FLOOR	SIZE	DESCRIPTION
D01	1	1	3068	EXT. 6-PANEL - COLOR WHITE
D02	3	1	2668	3 PANEL DOOR - COLOR BRITE WHITE
D03	1	1	3068	EXT. 6-PANEL
D04	2	2	2668	3 PANEL DOOR - COLOR BRITE WHITE

WINDOW SCHEDULE				
NUMBER	QTY	FLOOR	SIZE	DESCRIPTION
W01	1	1	3030	SINGLE HUNG
W02	1	1	2020	SINGLE HUNG
W03	9	1	3050	SINGLE HUNG
W04	2	2	3050	SINGLE HUNG
W05	1	2	2020	SINGLE HUNG
W06	1	2	4030	RIGHT SLIDING



# SECOND FLOOR PLAN

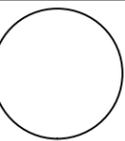
SCALE 1/4"=1'

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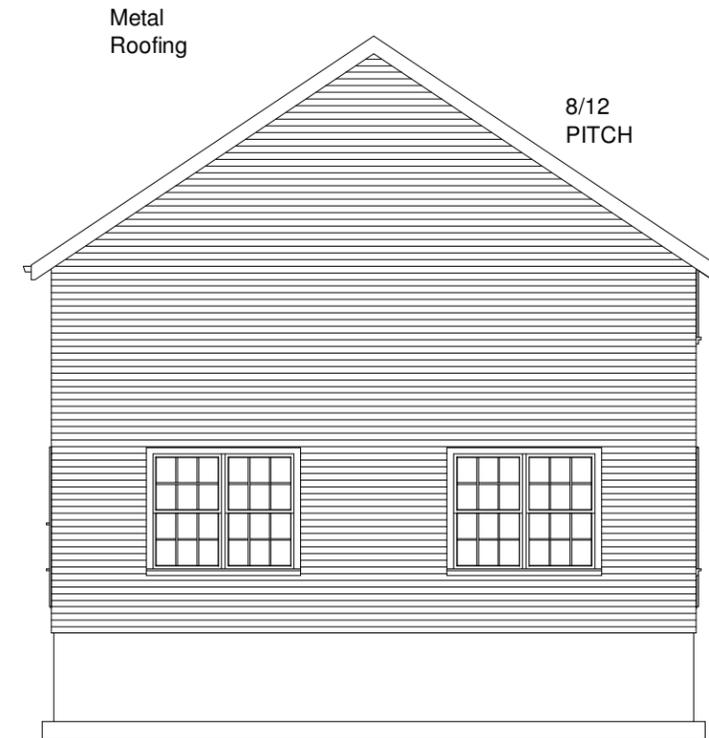
EAST FOUNDATION MAY NEED TO BE STEPPED UP A MAX OF 4' TO ALLOW FOR SLOPING LOT. IF NEEDED WINDOWS WOULD BE REMOVED ON MAIN FLOOR EAST SIDE OF CABIN.

**EAST ELEVATION**



Wood Siding

**NORTH ELEVATION**

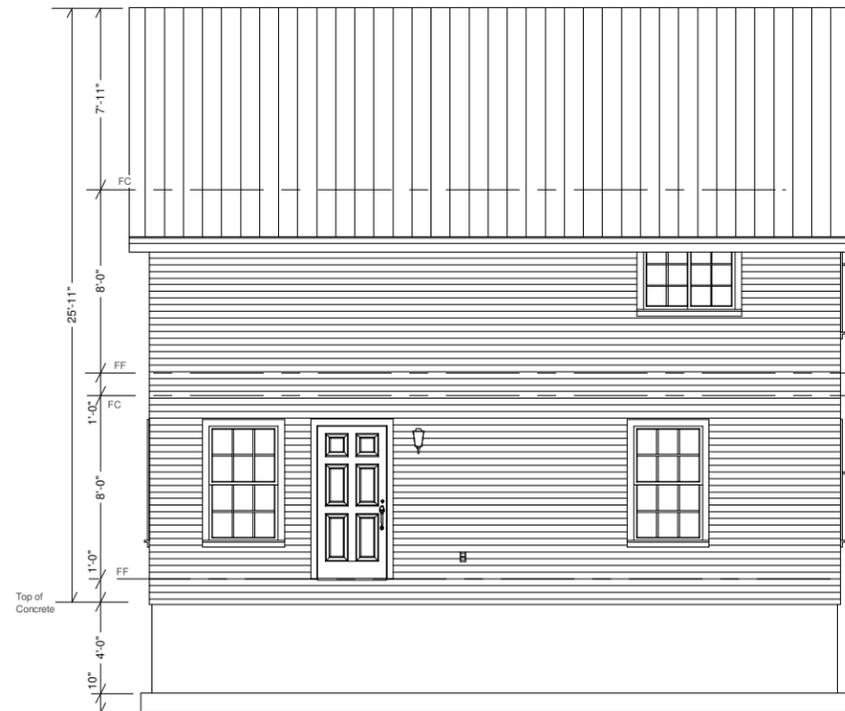


Metal Roofing

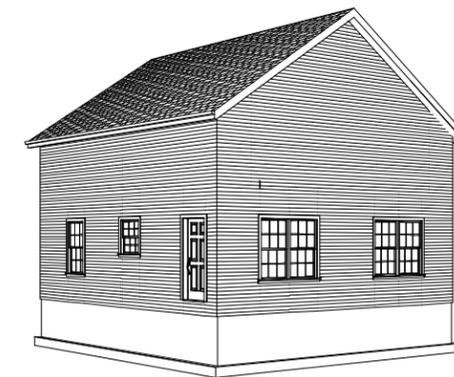
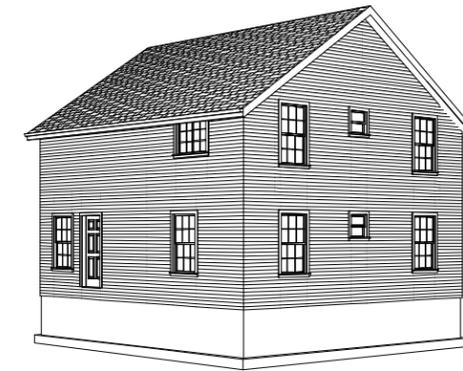
8/12 PITCH

**WEST ELEVATION**

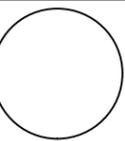
SCALE 1/8"=1'



**SOUTH ELEVATION**



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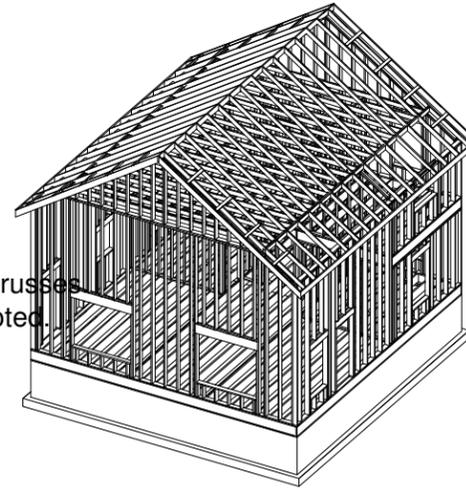
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Roof Framing:

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.

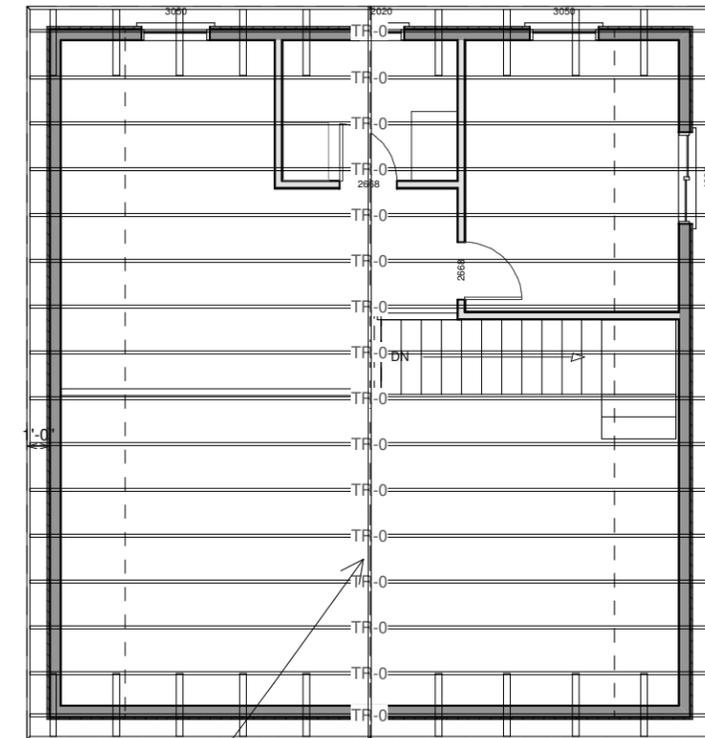


DESIGN CRITERIA

- A. BUILDING CODE IRC 2006
- B. LOADINGS
  - a. ROOF SNOW LOAD = 90 PSF
  - b. TYPICAL FLOOR LIVE LOAD = 40 PSF
  - c. TYPICAL STAIR + CORRIDOR LIVE LOAD = 100 PSF
  - d. WIND LOAD - 120 MPH ZONE - EXPOSURE C
  - e. SEISMIC SS = 35 SI=25
- C. FOUNDATION
  - a. ALL EXTERIOR FOOTINGS ARE TO BE FOUNDED AT NOT LESS THAN 36" BELOW ADJACENT FINISH FLOOR OR FINISH GRADE ONTO UNDISTURBED EXISTING SUBSOILS HAVING A MINIMUM NET BEARING CAPACITY OF 2000 PSF.

## ROOF FRAMING

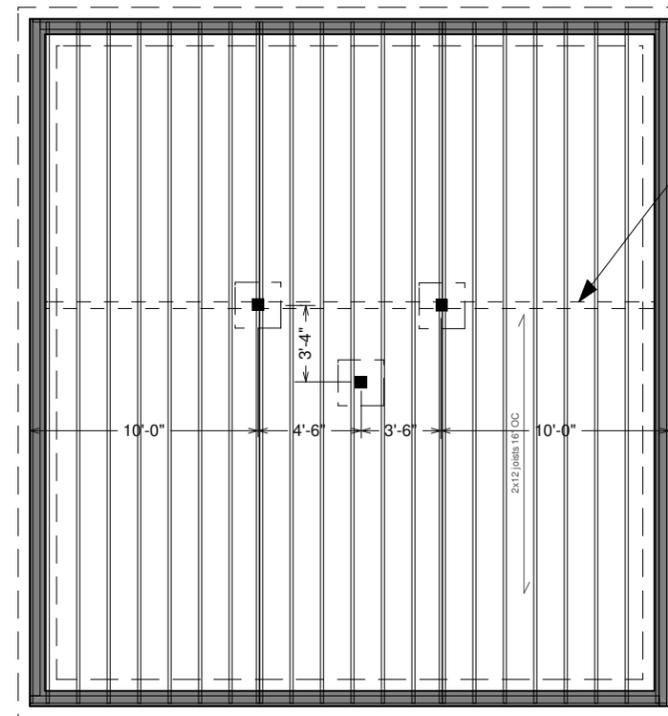
SCALE 1/16"=1'



8/12 Pitch

PRE-ENGINEERED ENERGY TRUSSES AS SUPPLIED BY TRUSS MANUFACTURER

1. Trusses to be 24" O.C.
2. Attic access min 22 1/2" x 30" were most convenient.  
For all areas greater than 30"
3. Install all trusses as per truss manufacturer installation guidelines.
4. 8/12 Pitch for main house

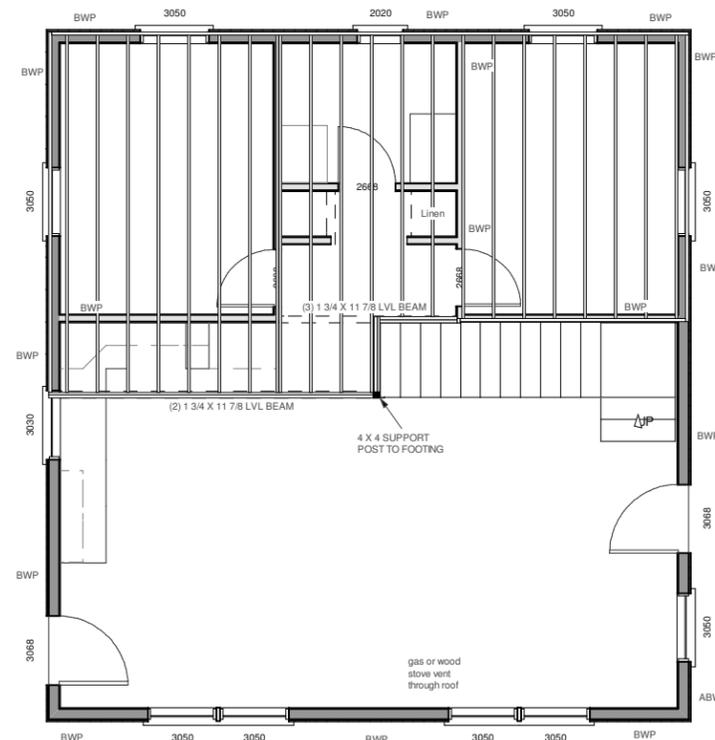


Floor Framing 11 7/8" I-joist

## MAIN FLOOR FRAMING

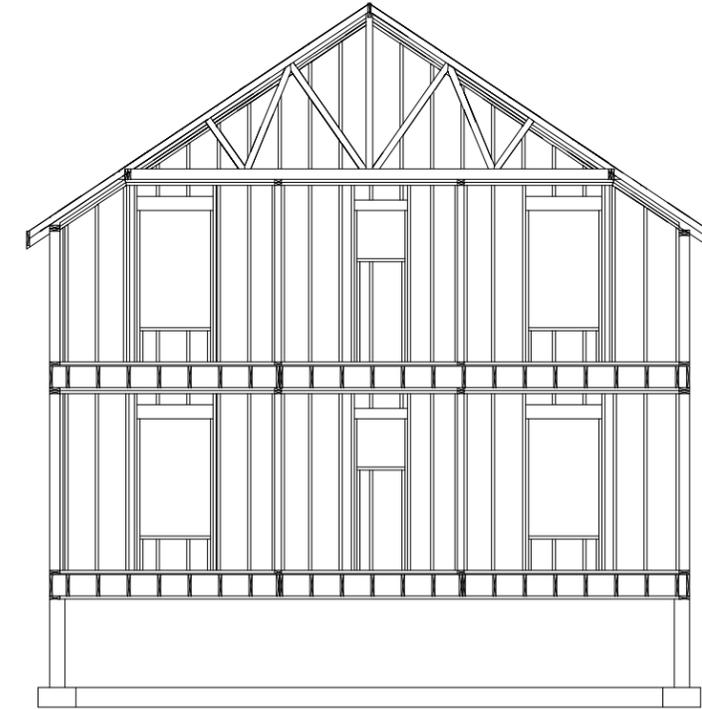
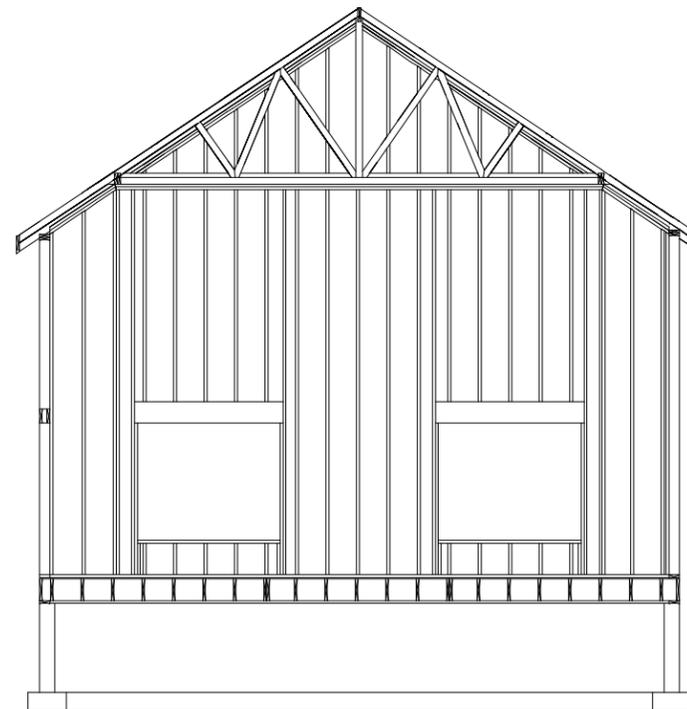
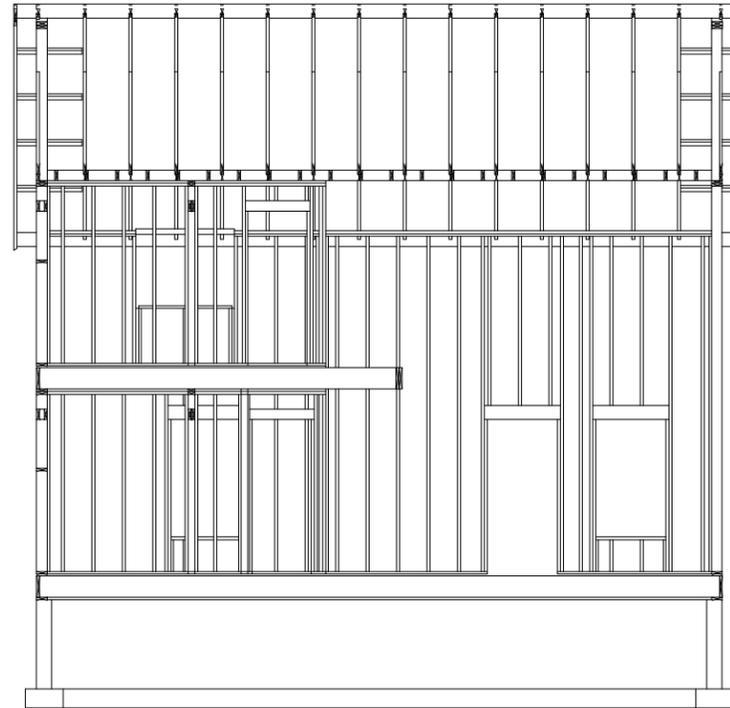
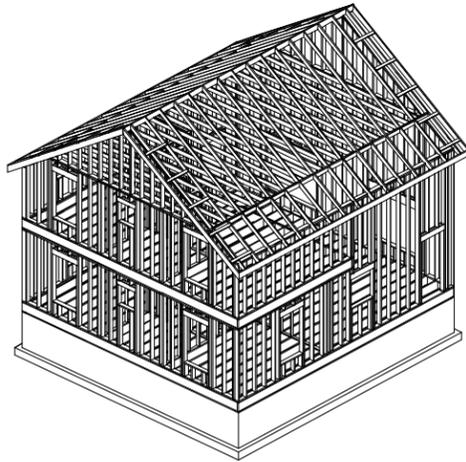
SEE GENERAL SPECS AND NOTES FOR FRAMING DETAILS

Floor Framing 11 7/8" I-joist



## 2ND FLOOR FRAMING

SCALE 1/8"=1'



# FULL HOUSE FRAMING SECTION

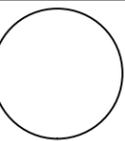
SCALE 1/8"=1'

General framing: (Douglas Fir)

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"x4" 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.



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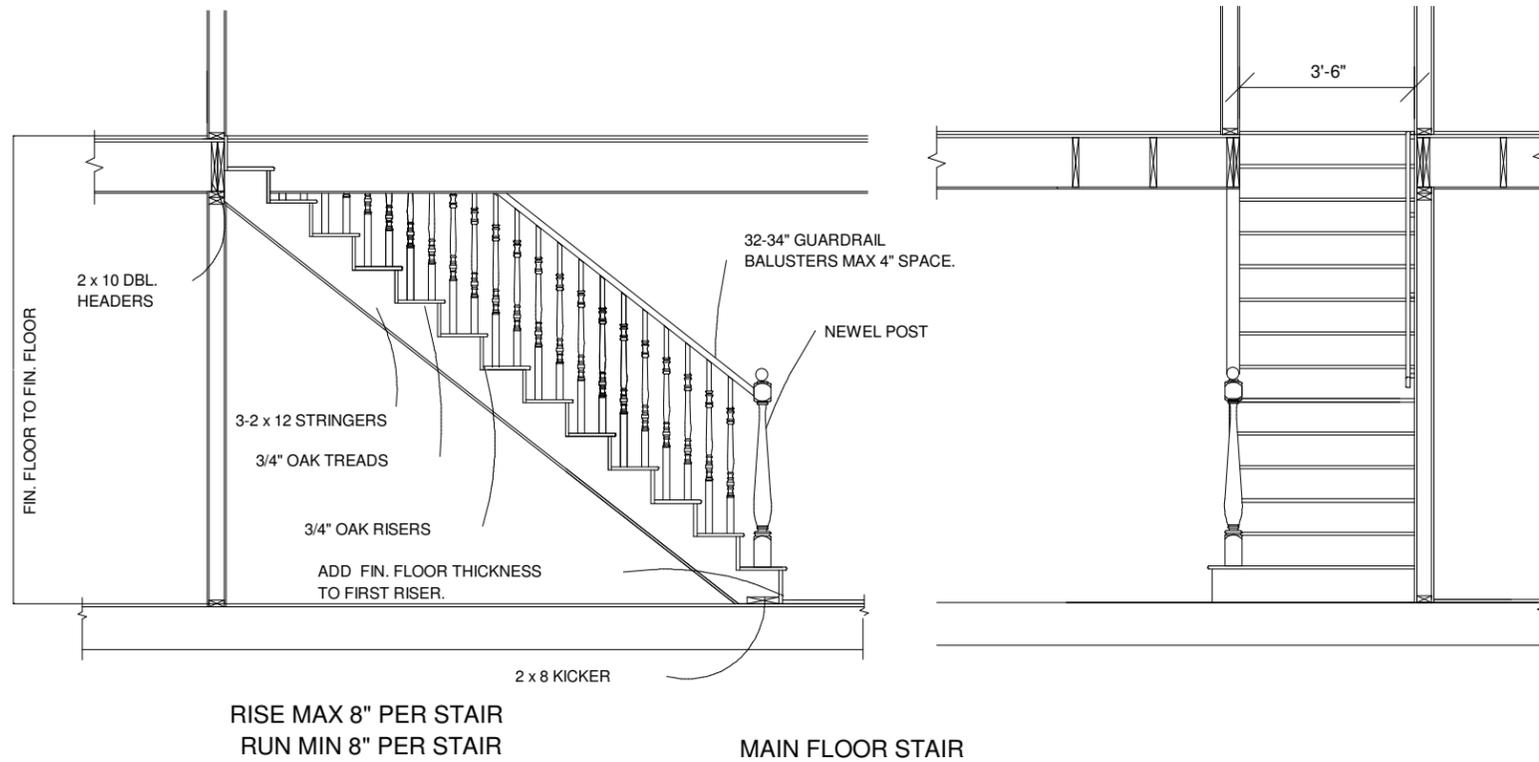
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RISE MAX 8" PER STAIR  
 RUN MIN 8" PER STAIR

MAIN FLOOR STAIR

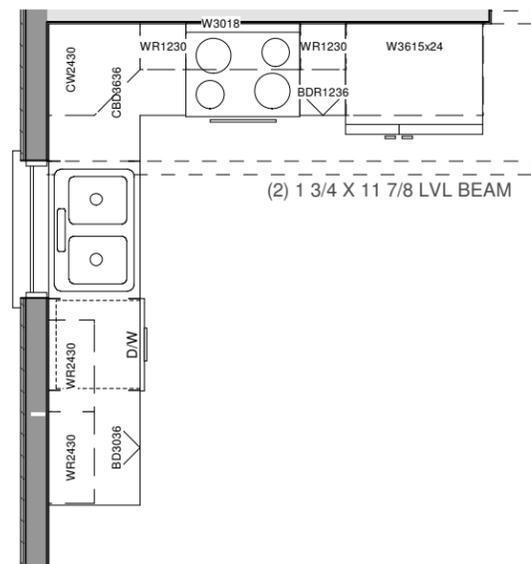


Kitchen layout and cabinets to be chosen by homeowner/Contractor basic layout for reference only. Measure after sheetrock is installed for correct sizing.

# STAIR DETAILS

## STAIR SPECIFICATIONS

1. Stairs to be constructed with the following materials:  
 2x6 kick plate anchor to concrete with expansion type anchor bolts,  
 2x12 treads nosing 1 1/8" minimum, 3-2x12 stringers required,  
 2x12 blocking, 3/4" wafer board risers and 2x6 ledger.
2. Handrail/Guardrails final style, material and color to be owner's choice. Design to be per code.
3. Guardrails to be 42" high minimum from floor.
4. Handrails to be 34"-38" above tread nosing.
5. Open railing to have intermediate rails or ornamental pattern such that a sphere 4" round cannot pass through.
6. Minimum stair requirements: maximum 8" rise, minimum 42" width, minimum 8" run, minimum head clearance 6'-8".
7. Preferred stair requirements: rise 7" to 7 1/2", run 11" to 12", minimum head clearance 7'-0".
8. Garage entrance stairs may be concrete or wood as per contractor/homeowner

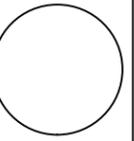


CABINET SCHEDULE				
NUMBER	QTY	FLOOR	DIMENSIONS	DESCRIPTION
C01	1	1	36X24X36 "	BATH BASE CAB
C02	1	1	36X24X36 "	BASE CAB
C03	1	1	24X24X30 "	CRNR WALL CAB
C04	1	1	36X24X15 "	WALL CAB
C05	1	1	36X36X36 "	CRNR BASE CAB
C06	1	1	12X24X36 "	BASE CAB
C07	1	1	30X24X36 "	BASE CAB
C08	2	1	12X12X30 "	WALL CAB
C09	2	1	24X12X30 "	WALL CAB
C10	1	1	30X12X18 "	WALL CAB
C11	1	2	36X24X36 "	BASE CAB
C12	1	2	30X24X84 "	UTIL CAB
C13	1	1	30X24X84 "	BATH UTIL CAB
C14	1	1	24X24X36 "	BASE CAB

# Cabinet Detail

SCALE 1/4"=1'

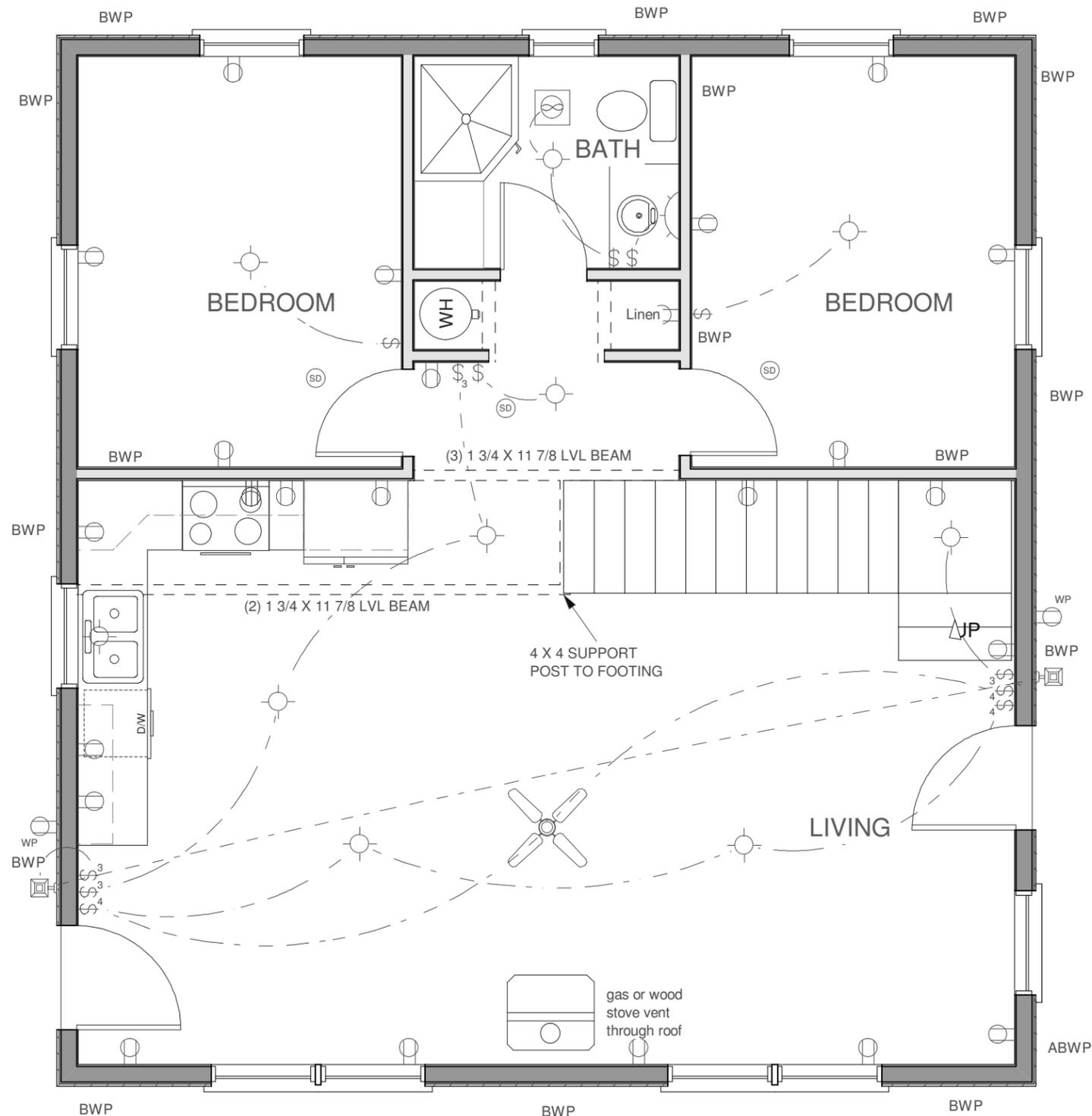
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# MAIN FLOOR ELECTRICAL PLAN

SCALE 1/4"=1'

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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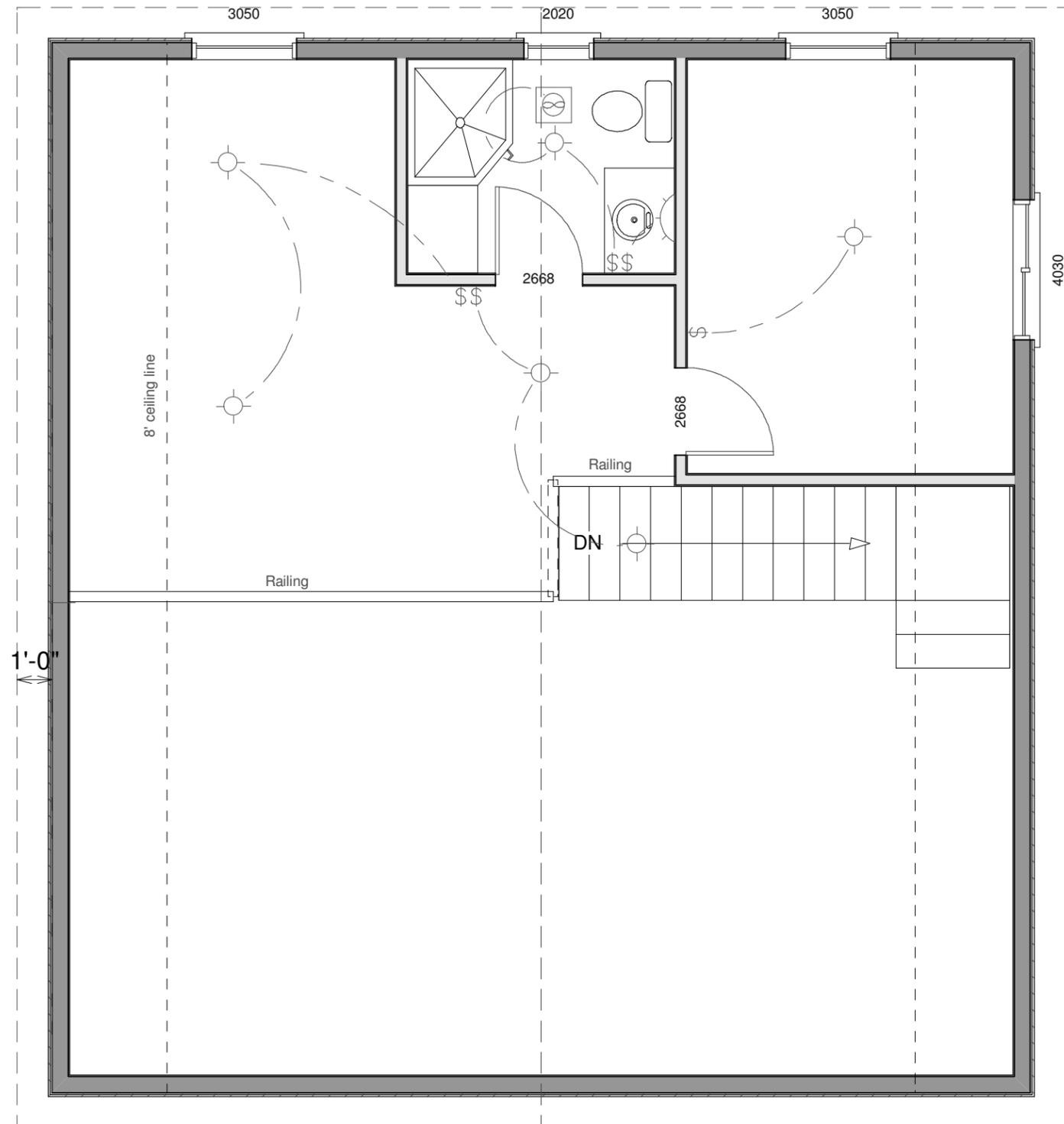
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**11**

**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 over 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.

ELECTRICAL SCHEDULE			
NUMBER	QTY	FLOOR	DESCRIPTION
E01	3	1	SMOKE DETECTOR
E02	3	1	FOUR WAY
E03	10	1	HALF DOME LIGHT - LIGHTING GREY
E04	23	1	DUPLEX
E05	2	1	220V
E06	2	1	PORCH LANTERN
E07	2	1	DUPLEX (WEATHERPROOF) - COLOR LIGHT GRAY (MATTE)
E08	1	1	CEILING FAN (LIGHTS)
E09	5	1	SINGLE POLE
E10	4	1	THREE WAY
E11	1	1	HALF CONE - LIGHTING GREY
E12	1	1	EXHAUST
E13	5	2	SINGLE POLE
E14	6	2	HALF DOME LIGHT - LIGHTING GREY
E15	1	2	HALF CONE - LIGHTING GREY
E16	1	2	EXHAUST



# SECOND FLOOR ELECTRICAL PLAN

SCALE 1/4"=1'

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**11**

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ASPHALT SHINGLES ROOFING MATERIAL  
 30# ROOFING PAPER  
 7/16" Min ROOF DECKING  
 ENGINEERED TRUSS SYSTEM IF POSSIBLE  
 SEE PLAN FOR SIZING  
 VENT PER CODE VENTILATION

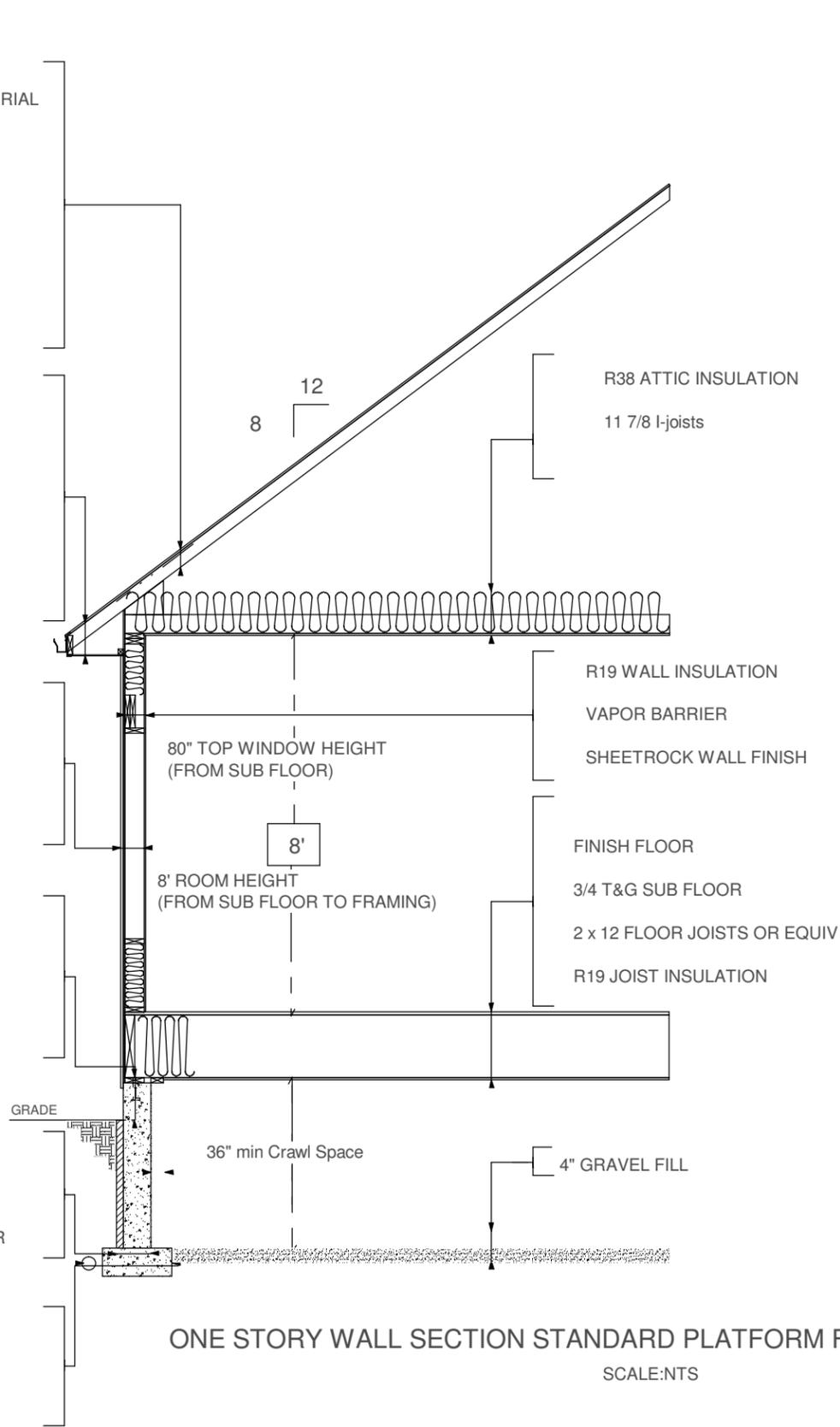
METAL DRIP EDGE  
 RAIN GUTTERS  
 2 x 6 SUB FASCIA  
 METAL FASCIA  
 OVERHANG TO MATCH HOUSE  
 METAL VENTED SOFFIT

MATCH EXISTING WALL FINISH  
 TYVEK HOUSE WRAP  
 7/16 MIN WALL SHEATHING  
 2 x 4 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

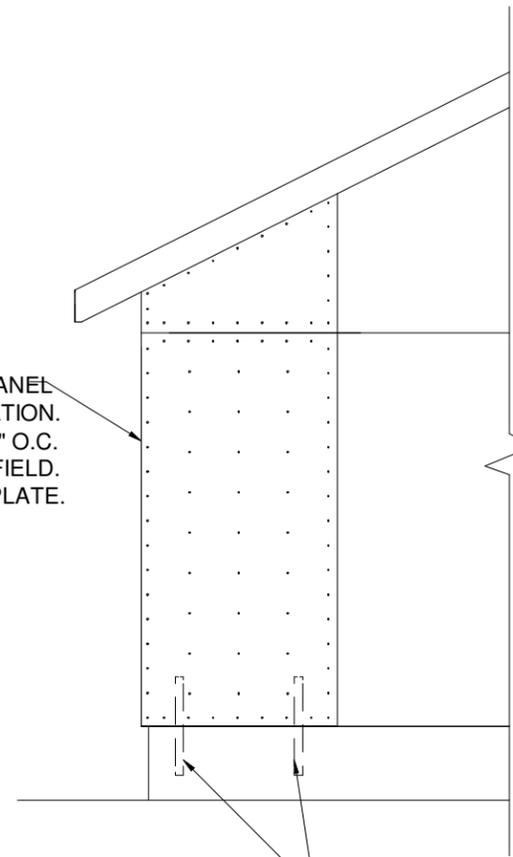
4" DRAIN TILE  
 10" x 20" CONCRETE FOOTING  
 A-615 RE-BAR



ONE STORY WALL SECTION STANDARD PLATFORM FRAMING

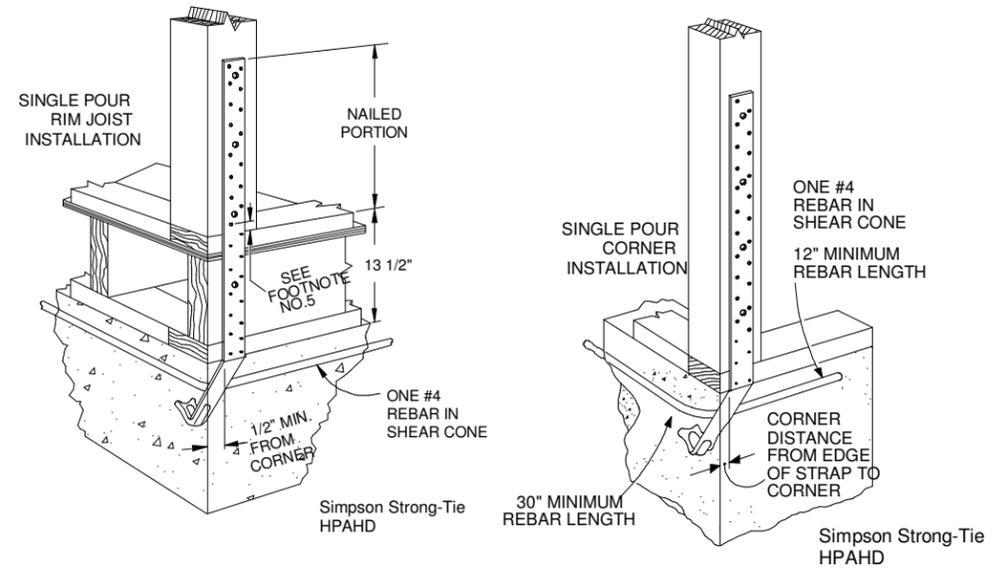
SCALE:NTS

BRACED WALL PANEL  
 4X8 SHT. ON FOUNDATION.  
 NAIL W/8d NAILS @6" O.C.  
 EDGES @12" O.C. IN FIELD.  
 NAIL BOTTOM TO SILL PLATE.

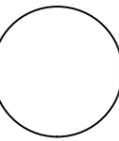


ALTERNATE BRACE WALL PANELS  
 PROVIDE (2) STRAPS FOR B.W.P.

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



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