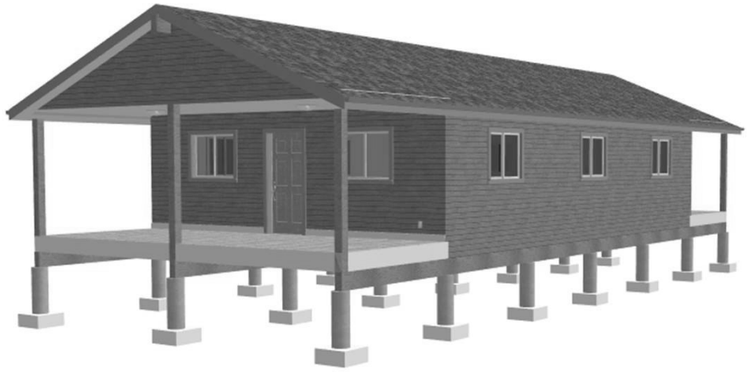
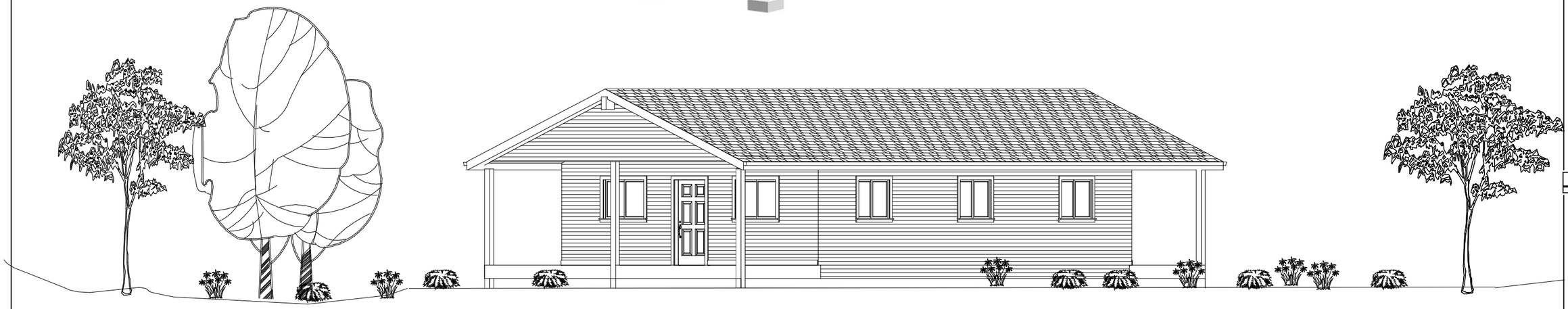




Custom Cabin Design
Plan #238 40' x 25' - 8' Ceilings
By SDS-CAD Specialized Design Systems

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

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.

Note: Paper size B - 11 x 17 if printed on D - 22 x 34 scale is 2 X of stated scale

Residential Design

SDS-CAD
Specialized Design Systems

P O Box 374 Mendon, Utah www.sdscad.com email: sdscad@pcu.net

CLIENT

DATE

DRWN BY

CHKD BY

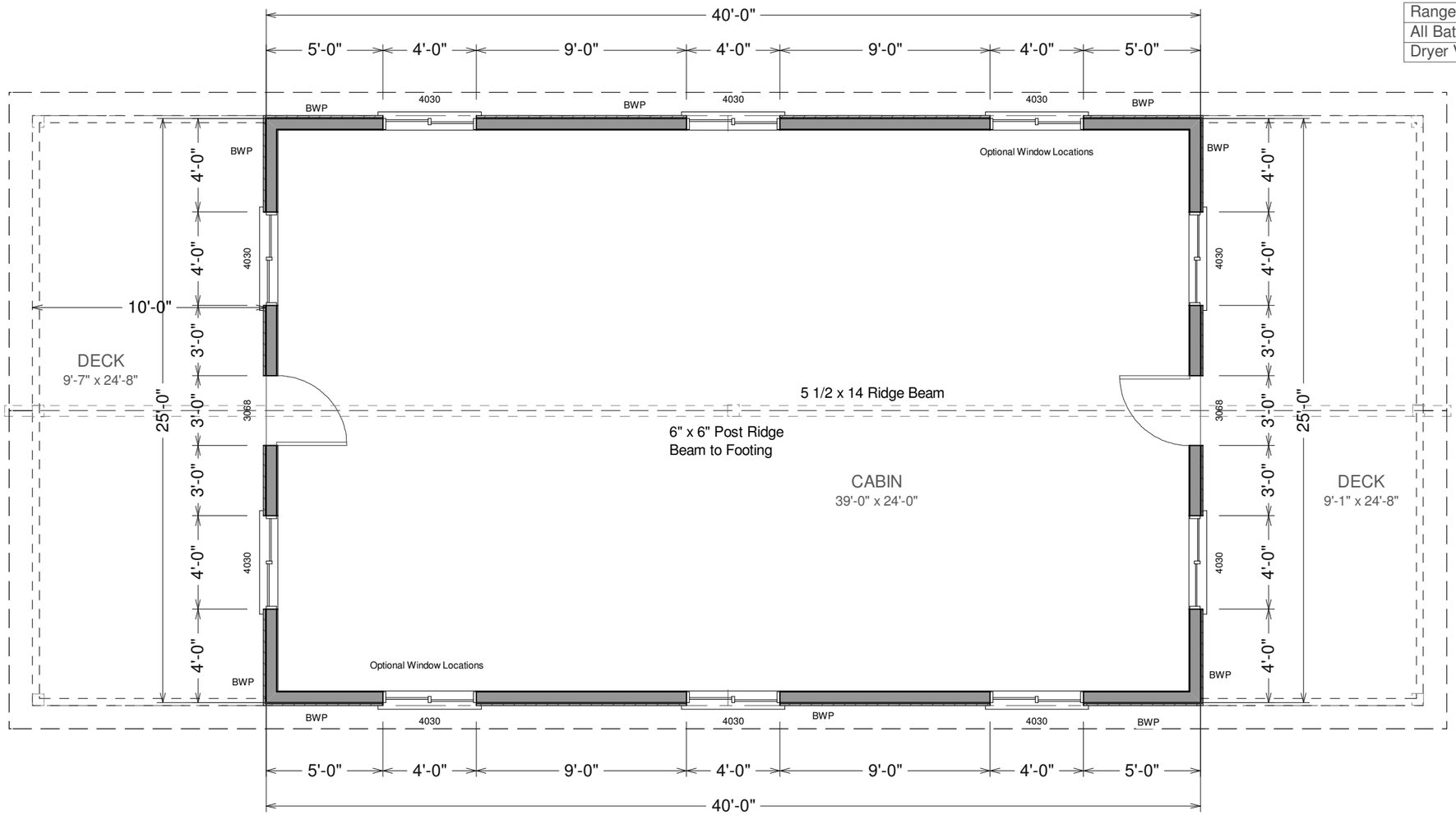
DATE

REVISIONS

JOB NO.

SHEET NO.

1
OF
8



VENTING SCHEDULE

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

ATTIC VENTILATION:
AREA / 300

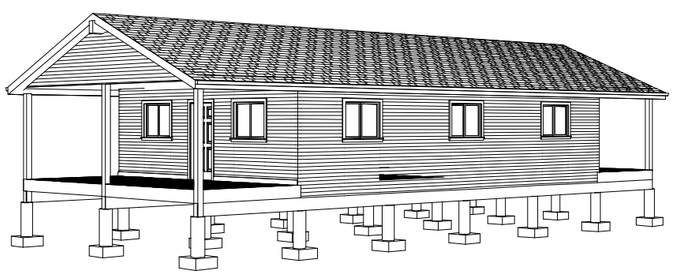
PROVIDE 1" MIN. AIR GAP AT EAVES WITH INSULATION BAFFELS TYP. AT ALL TRUSS BAYS.

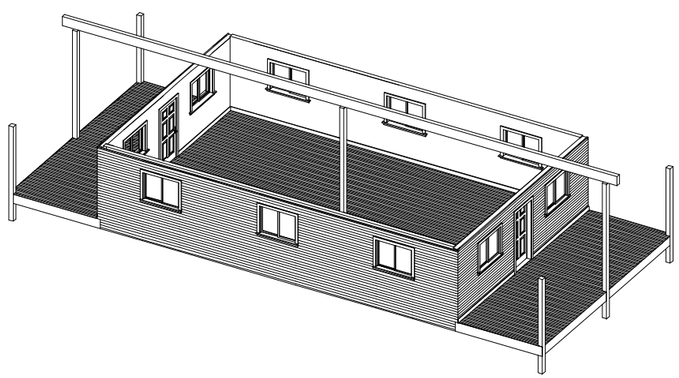
PROVIDE GABLE VENTS ALL GABLE ENDS.

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

MAIN FLOOR PLAN

SCALE 3/16"=1'





INSULATION SCHEDULE

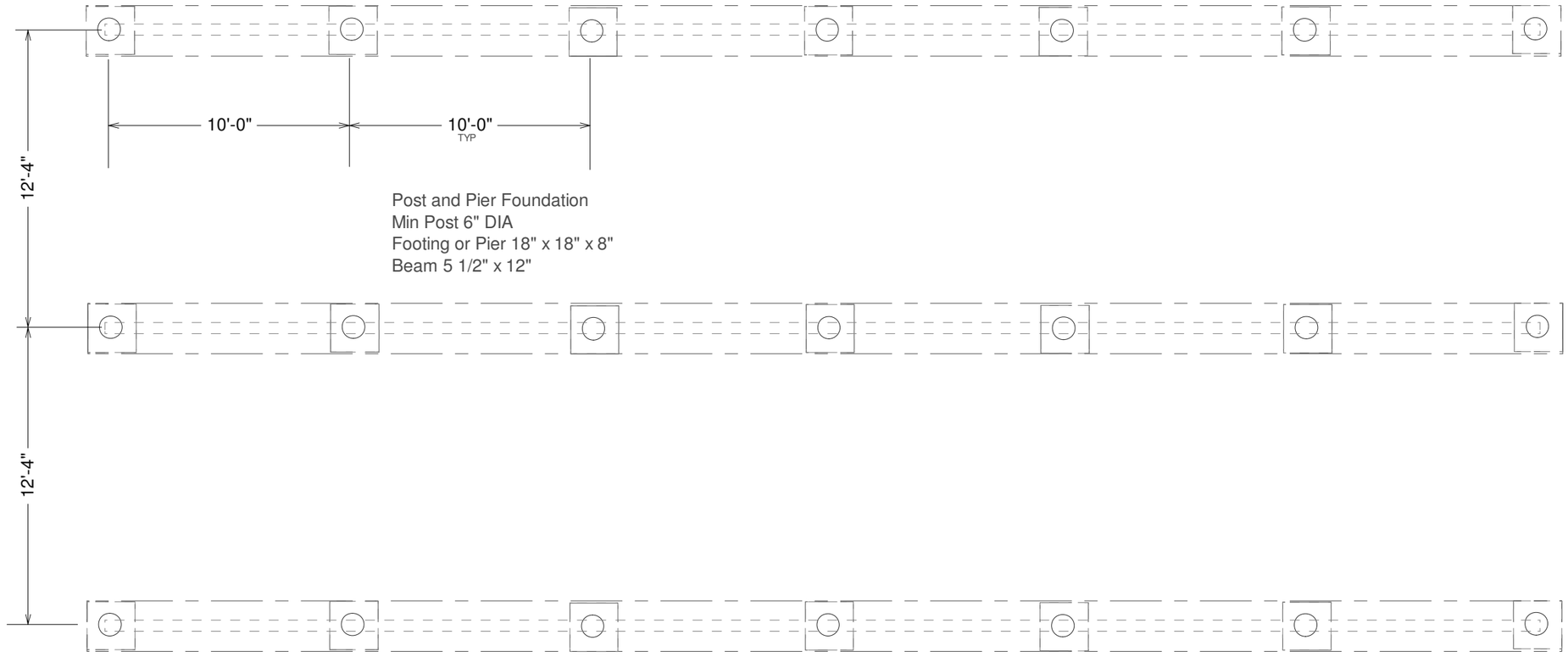
Ceilings	R-38 Min
Wall above grade	R-19 Min
Wall interior below grade	R-13 Min

Note: Paper size B - 11 x 17 if printed on D - 22 x 34 scale is 2 X of stated scale

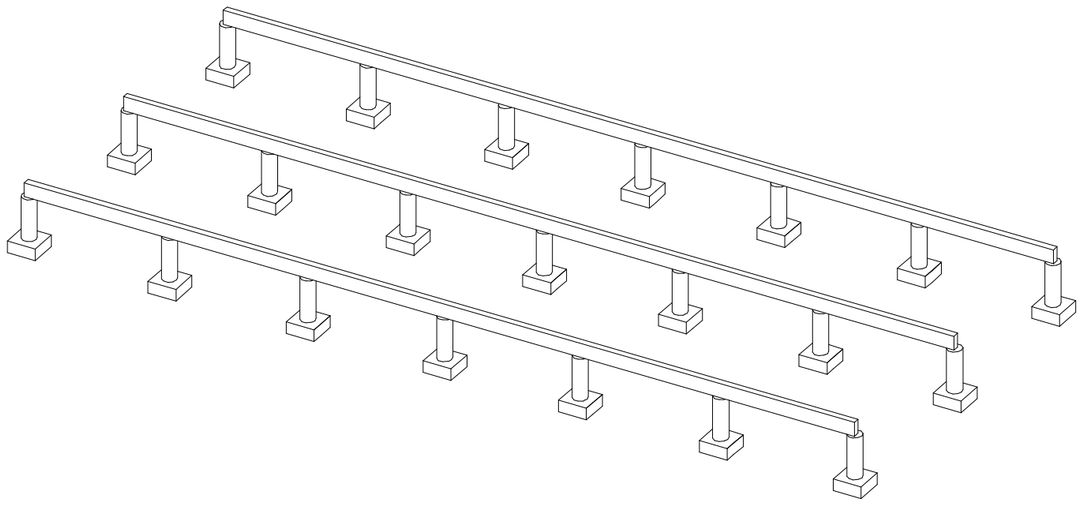
Residential Design

SDS-CAD
Specialized Design Systems
P O Box 374 Mendon, Utah www.sdscad.com email:sdscad@pcu.net

CLIENT
DATE
DRWN BY
CHK'D BY
DATE
REVISIONS
JOB NO.
SHEET NO.
2
OF
8



Post and Pier Foundation
Min Post 6" DIA
Footing or Pier 18" x 18" x 8"
Beam 5 1/2" x 12"



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 lamp 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.

SCALE 1/4"=1'

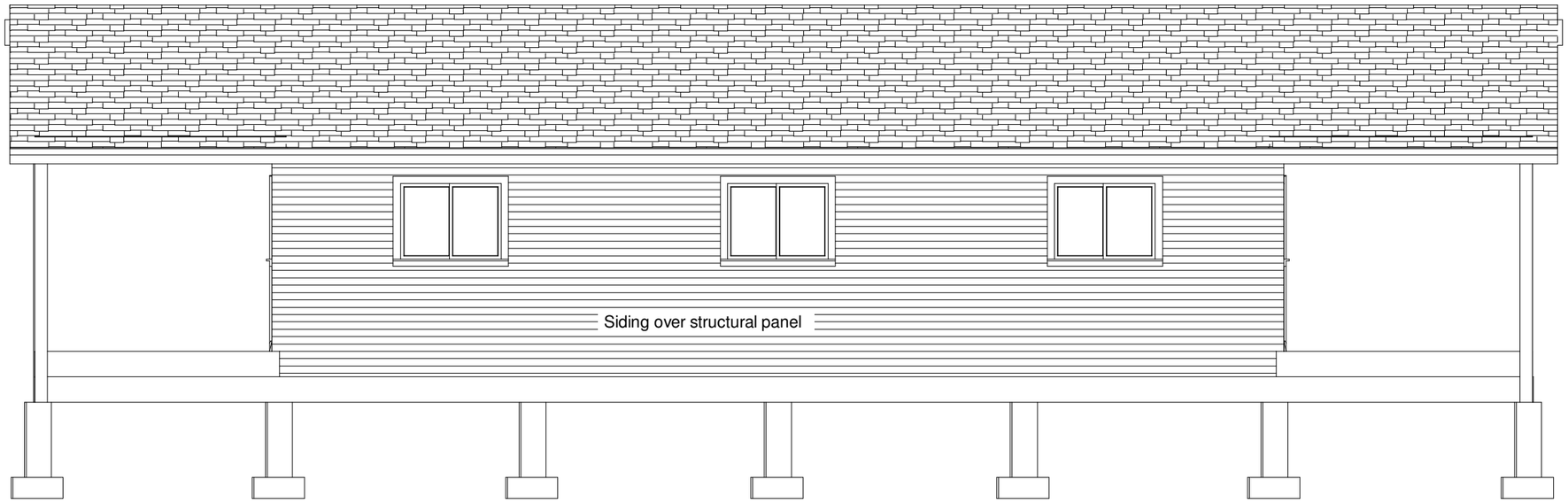
FOUNDATION PLAN

Note: Paper size B - 11 x 17 if printed on D - 22 x 34 scale is 2 X of stated scale

Residential Design

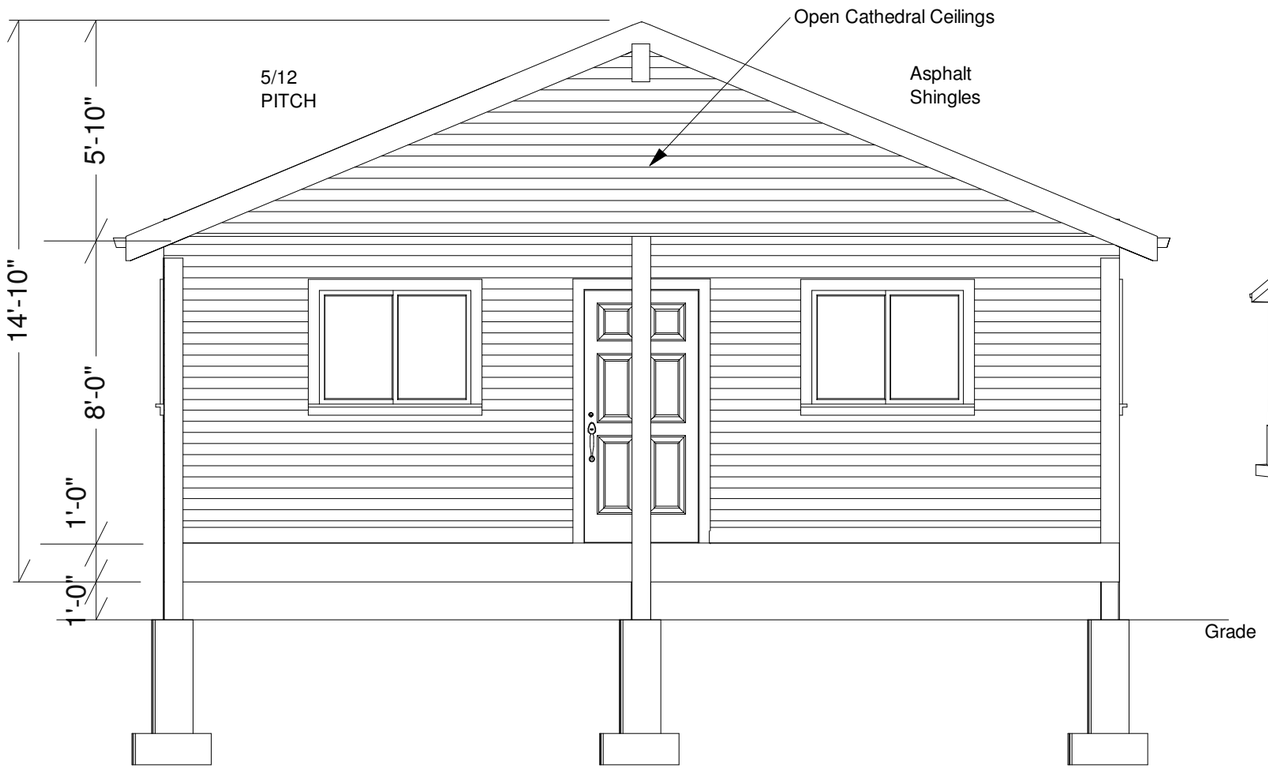
SDS-CAD
Specialized Design Systems
P O Box 374 Mendon, Utah www.sdscad.com email:sdscad@pcu.net

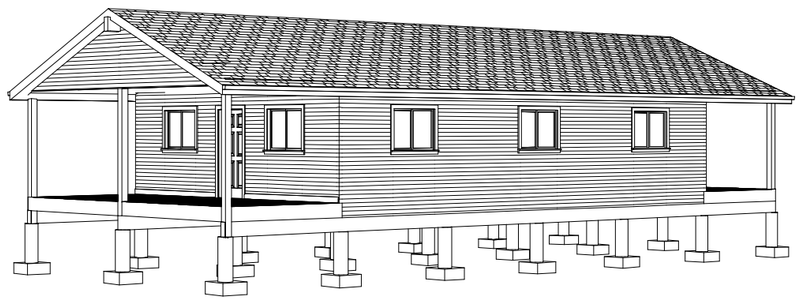
CLIENT
DATE
DRWN BY
CHKD BY
DATE
REVISIONS
JOB NO.
SHEET NO.
3
OF
8



SCALE 3/16"=1'

RIGHT AND LEFT ELEVATIONS





SCALE 1/4"=1'

FRONT AND REAR ELEVATIONS

Note: Paper size B - 11 x 17 if printed on D - 22 x 34 scale is 2 X of stated scale

Residential Design

SDS-CAD
Specialized Design Systems
P O Box 374 Mendon, Utah www.sdscad.com email:sdscad@pcu.net

CLIENT

DATE

DRWN BY

CHKD BY

DATE

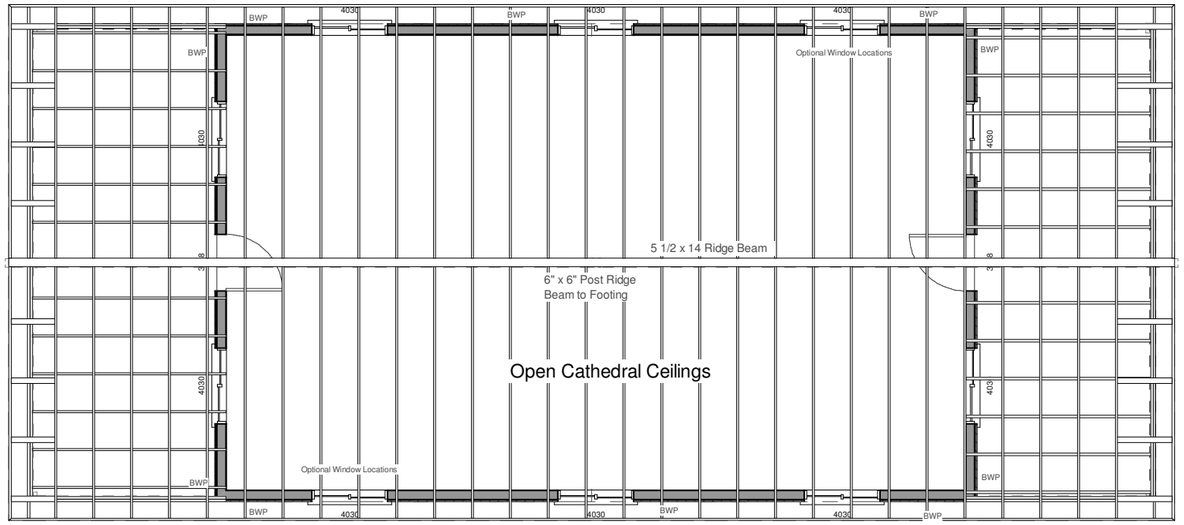
REVISIONS

JOB NO.

SHEET NO. 4 OF 8

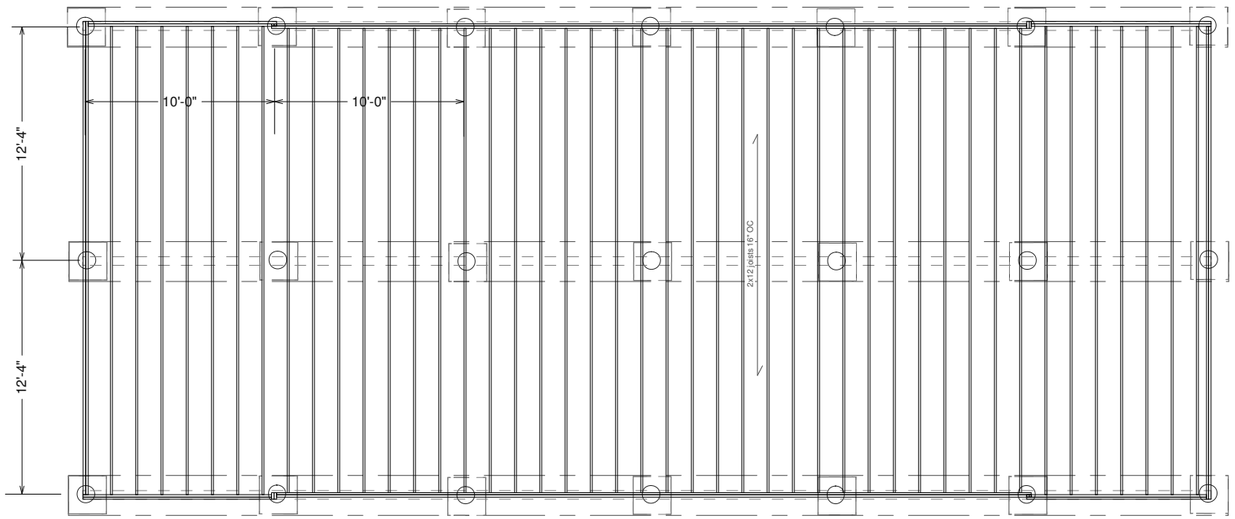
Roof Framing:

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 ½" 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 ½" thick, 24/0, CDX or 5/8 wafer.
10. Open Cathedral Ceilings



ROOF FRAMING

SCALE 1/16"=1'



Floor Framing 2 X 10 DF MIN
or equivalent TJI

MAIN FLOOR FRAMING

SCALE 1/8"=1'

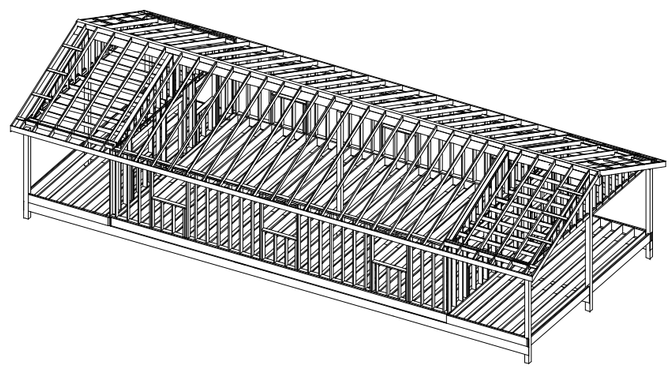
SEE GENERAL SPECS AND
NOTES FOR FRAMING DETAILS

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

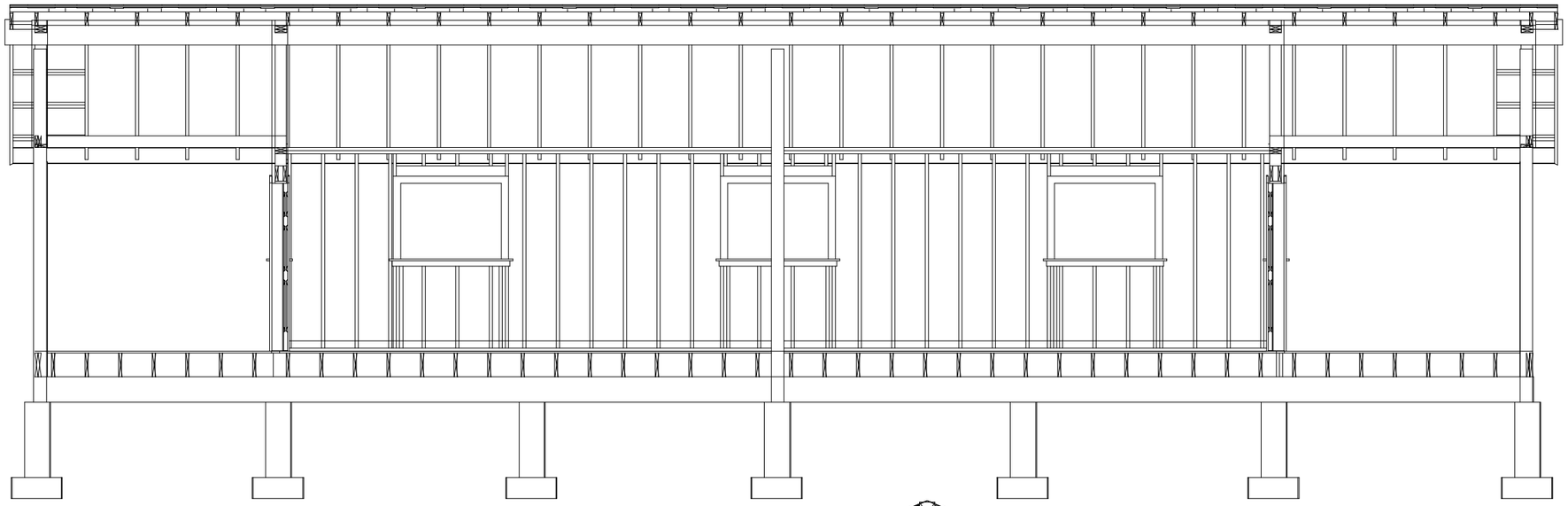
C. FOUNDATION
   a. ALL EXTERIOR FOOTINGS ARE TO BE FOUNDED AT NOT LESS THAN 36" BELOW ADJACENT FINISH FLOOR OR FINISH GRADE ONTO UNDISTURBED EXISTING SUBSOILS HAVING A MINIMUM NET BEARING CAPACITY OF 2000 PSF.



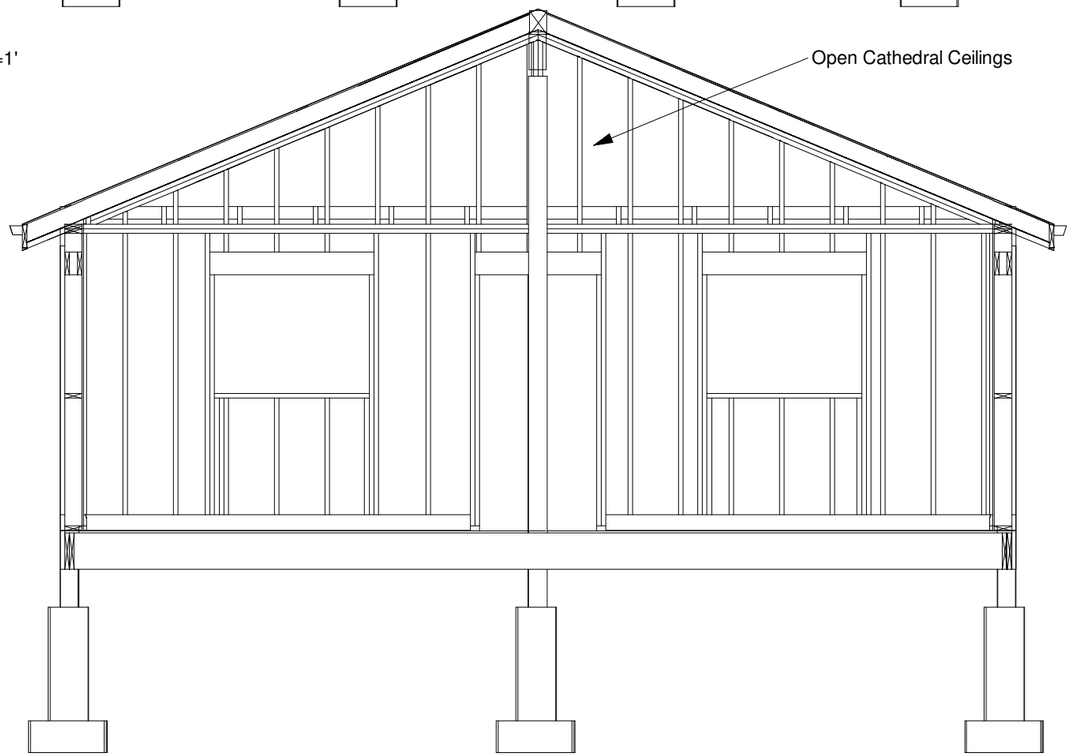
Note: Paper size B - 11 x 17 if printed on D - 22 x 34 scale is 2 X of stated scale

Residential Design
SDS-CAD
Specialized Design Systems
P O Box 374 Mendon, Utah www.sdscad.com email: sdscad@pcu.net

CLIENT
DATE
DRWN BY
CHKD BY
DATE
REVISIONS
JOB NO.
SHEET NO.
5
OF
8



SCALE 3/16"=1'



FULL HOUSE FRAMING SECTION

SCALE 1/4"=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 ¾" 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.

Note: Paper size B - 11 x 17 if printed on D - 22 x 34 scale is 2 X of stated scale

Residential Design
SDS-CAD
Specialized Design Systems
P O Box 374 Mendon, Utah www.sdscad.com email:sdscad@pcu.net

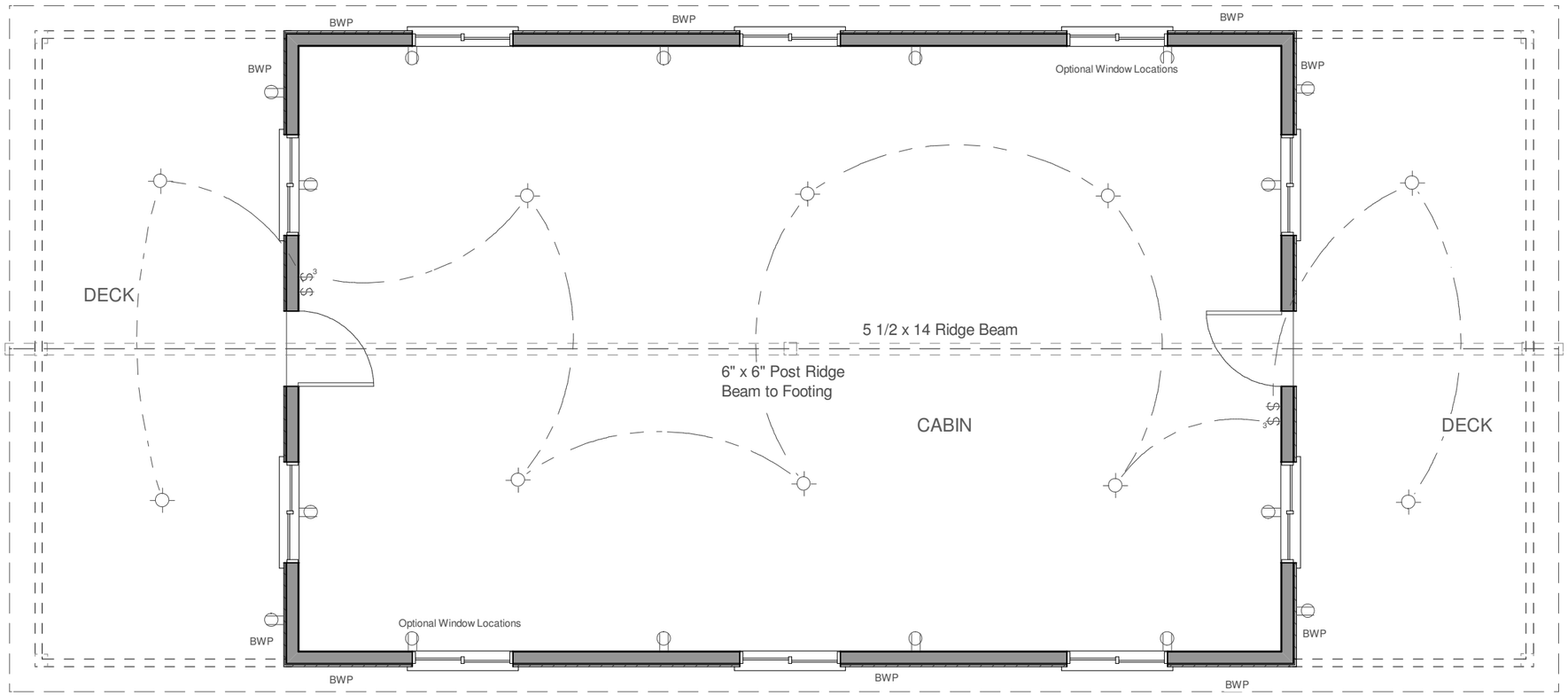
CLIENT
DATE
DRWN BY
CHKD BY
DATE
REVISIONS
JOB NO.
SHEET NO.
6
OF
8

PRE-ENGINEERED ENERGY TRUSSES AS

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	DESCRIPTION
E01	10	HALF DOME LIGHT - LIGHTING GREY
E02	16	DUPLEX
E03	2	SINGLE POLE
E04	2	THREE WAY



MAIN FLOOR ELECTRICAL PLAN

SCALE 3/16"=1'

Note: Paper size B - 11 x 17 if printed on D - 22 x 34 scale is 2 X of stated scale

SDS-CAD
Specialized Design Systems
P O Box 374 Mendon, Utah www.sdscad.com email:sdscad@pcu.net

Residential Design

CLIENT
DATE
DRWN BY
CHK'D BY
DATE
REVISIONS
JOB NO.
SHEET NO.
7
OF
8

General								
GN1		0	12W12D	Vert (round) - concrete grey	21	0		
GN2		1	97 1/8 high	Siding-6	49	0	ft	
GN3		1	98 11/16 hig	Siding-6	79	0	ft	
GN4		1		heated ceiling area	493.00	0.00	sq ft	
GN5		1		heated floor area	1502.00	0.00	sq ft	
GN6		1		heated roof area	1083.00	0.00	sq ft	
GN7		1		heated wall area	580.00	0.00	sq ft	
GN8		1		heated glass area	72.00	0.00	sq ft	
GN9		2	61 9/16 high	Siding-6	98	0	ft	
								Subtotal:
Subfloor								
SF1		1	4'x8'x3/4"	Sheet Plywood	47	0		
SF2		1	2x12"-10'	rim joists - lumber	8	0		
SF3		1	2x12"-16'+	rim joists - lumber	130	0	ft	
SF4		1	2x12"-26'	floor joists - lumber	44	0		
SF5		1	2x6"-12'	ceiling joists - lumber	17	0		
SF6		1	2x6"-26'	ceiling joists - lumber	4	0		
SF7		1	2x6"-10'	ceiling joists - lumber	17	0		
								Subtotal:
Framing								
F1		1	2x6-16ft+	fir plate	425	0	ft	
F2		1	2x6"-92 5/8"	fir stud	86	0		
F3		1	2x6-16ft+	fir stud stock	336	0	ft	
F4		1	2x6"-5 7/8"	fir stud	6	0		
F5		1	2x7-16ft+	header - lumber	100	0	ft	
F6		2	2x6-16ft+	fir plate	254	0	ft	
F7		2	2x6-16ft+	fir stud stock	205	0	ft	
								Subtotal:
Siding								
S1		1	11 1/2" wide	Siding Wood Pine	732	0	ft	
S2		1	4'x8'x5/8"	Sheet Plywood-hrz	22	0		
S3		1		house wrap	1111.00	0.00	sq ft	
S4		2	11 1/2" wide	Siding Wood Pine	289	0	ft	
S5		2	4'x8'x5/8"	Sheet Plywood-hrz	8	0		
								Subtotal:
Ext Trim								
EX1		0		Color White (Dull)	315.00	0.00	sq ft	
EX2		1	1x4-16ft+	exterior sill	46	0	ft	
EX3		1	1x4-16ft+	ext. window casing	112	0	ft	
EX4		1	1x7-36"	door threshold	2	0		
EX5		1	1x4-16ft+	ext. door casing	35	0	ft	
EX6		1	7 in	ext. door jamb	35	0	ft	
								Subtotal:
Roofing								
R1		1	6x8"-16'+	ridge board - lumber	62	0	ft	
R2		1	2x6"-16'	rafters - lumber	62	0		
R3		1	2x8"-62'	rafters - lumber	2	0		
R4		1	2x8"-16'	rafters - lumber	4	0		
R5		1	2x4"-16'+	rafters - lumber	41	0	ft	
R6		1		ridge cap	62	0	ft	
R7		1		Roofing Dimensional Comp.	1815.00	0.00	sq ft	
R8		1	4x8' sheets	roof sheathing	57	0		
R9		1	2x8"	gable fascia	59	0	ft	
R10		1	2x8"	eave fascia	123	0	ft	
R11		1		metal drip edge	182	0	ft	
R12		1		gutter	123	0	ft	
R13		1		downspout	2	0		
								Subtotal:
Insulation								
IN1		1	12x24x48" t	ceiling insulation	61	0		
IN2		1	12x16x48" t	floor insulation	281	0		
IN3		1	12x24x48" t	roof insulation	135	0		
IN4		1	6x16x93" bs	wall insulation	54	0		
								Subtotal:
Flooring								
FL1		1	2 1/4" wide	Flooring Oak-Golden	7588	0	ft	
Wall Brd								
WB1		1	11 1/2" wide	Siding Wood Pine	355	0	ft	
WB2		1	4'x8'x5/8"	Sheet Plywood-hrz	12	0		
WB3		1	4'x8'x1/2"	Sheet Sheetrock	33	0		
WB4		1		Color Bone White	487.00	0.00	sq ft	
WB5		1	4'x8'x3/4"	Sheet Sheetrock	38	0		
WB6		2	4'x8'x1/2"	Sheet Sheetrock	8	0		
								Subtotal:
Windows								
W1		1	48x36	right sliding	10	0		
Doors								
D1		1	36x80x1 3/4	ext. 6-Panel	2	0		
D2		1		handle: Lever (decorative)	2	0		
D3		1		handle: Exterior Handle (ext.)	2	0		
D4		1		lock: Dead Bolt (interior)	2	0		
D5		1		lock: Dead Bolt (exterior)	2	0		
D6		1		hinge: hidden	6	0		
								Subtotal:
Int Trim								
T1		1	1x4-16ft+	window apron	46	0	ft	
T2		1	1x4-16ft+	sill	46	0	ft	
T3		1	1x4-16ft+	interior casing	147	0	ft	
T4		1	1x6-16ft+	base molding	175	0	ft	
								Subtotal:
Electrical								
E1		1	wall mount	Duplex	16	0		
E2		1	wall mount	Three Way	2	0		
E3		1	wall mount	Single Pole	2	0		
E4		1	ceiling mour	Half Dome Light - lighting grey	10	0		
								Subtotal:
								Total:

Computer generated materials list
from the 3d model. Should be used
with caution and due diligence.

Note: Paper size B - 11 x 17 if printed on D - 22 x 34 scale is 2 X of stated scale

SDS-CAD
Specialized Design Systems
P O Box 374 Mendon, Utah www.sdscad.com email: sdscad@pcu.net

Residential Design