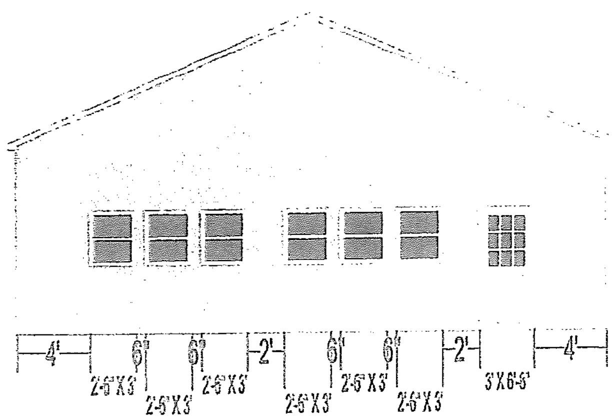
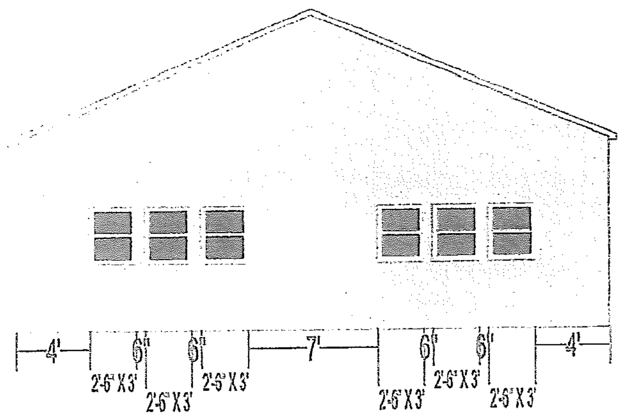
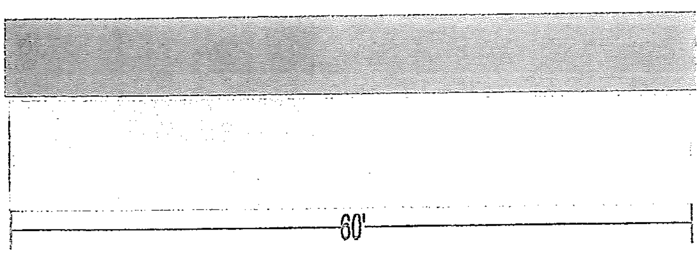
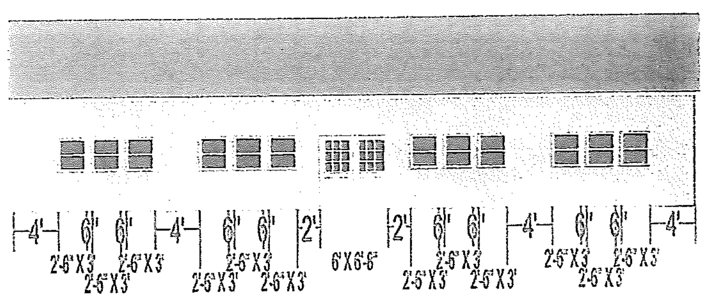




Gable [illegible] View
(6) - S[illegible]
(1) - [illegible]





Eave [illegible]

Building Size: 32 feet wide X 60 feet [illegible]
Approximate Peak Height: 17 feet 3 [illegible]
NOTE: Overhead doors may need to [illegible]
Confirm the door requirements [illegible]

Georgetown BP190443

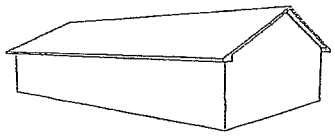
Items Selected:

Gable roof w/ 5/12 pitch, Standard Trusses 2' O.C.
Truss Design Location Zip Code: 49428
Residential Post Frame Construction
with Concrete Floor (not included)
32' Wide X 60' Deep X 10' - 6" High
Vinyl Double 4" Lap Siding
- Clay
7/16" OSB Wall Sheathing
Typar Housewrap
12" gable/24" eave overhangs
1/2" OSB Roof Sheathing
Duration, Brownwood Shingles
4' Shingleover Ridge Vent
Royal Brown Aluminum Soffit & Fascia
Royal Brown Premium Roof Edge

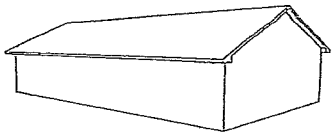
Options Selected:

The options you have selected are:
Deck Defense Synthetic Underlayment
2 Rows Granular Ice & Water Barrier

Front View



Back View



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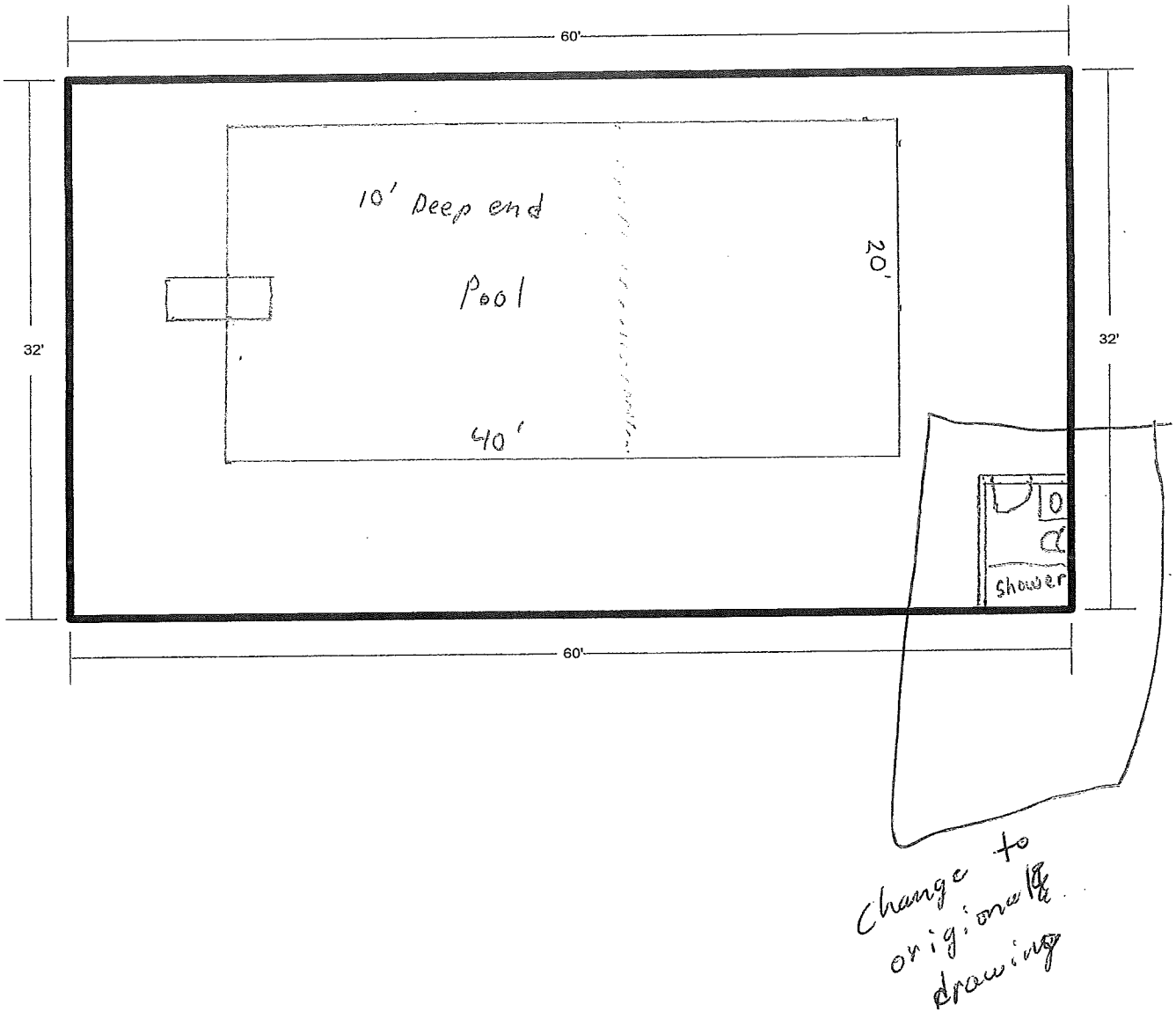
MENARDS® Design-It® Residential Post Frame

*** Floor Plan.

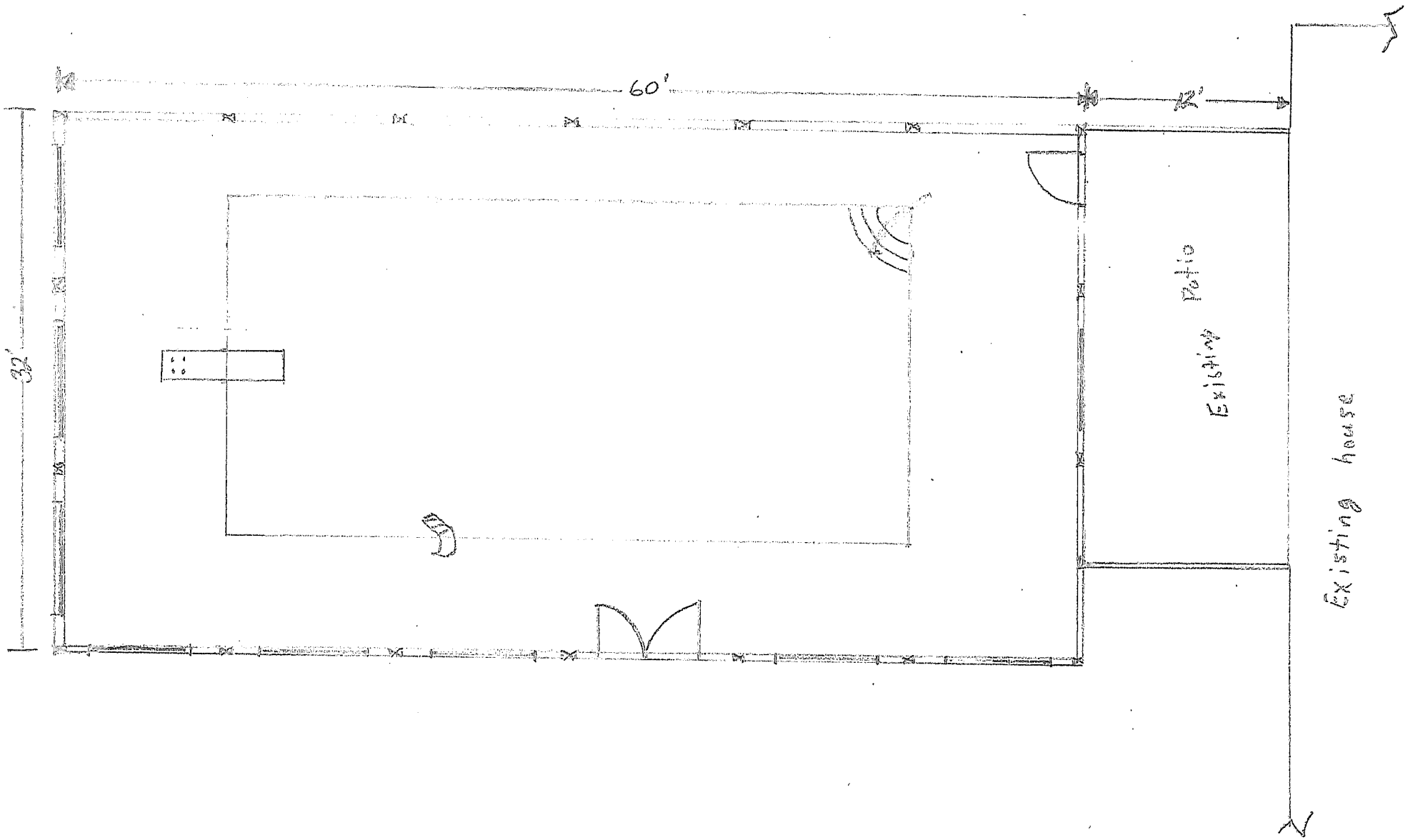
Illustration May Not Depict All Options Selected



Building Size: 32 feet wide X 60 feet long X 10 feet high

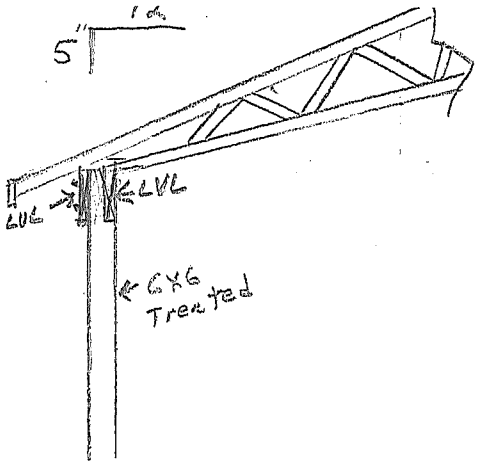
1/8" scale

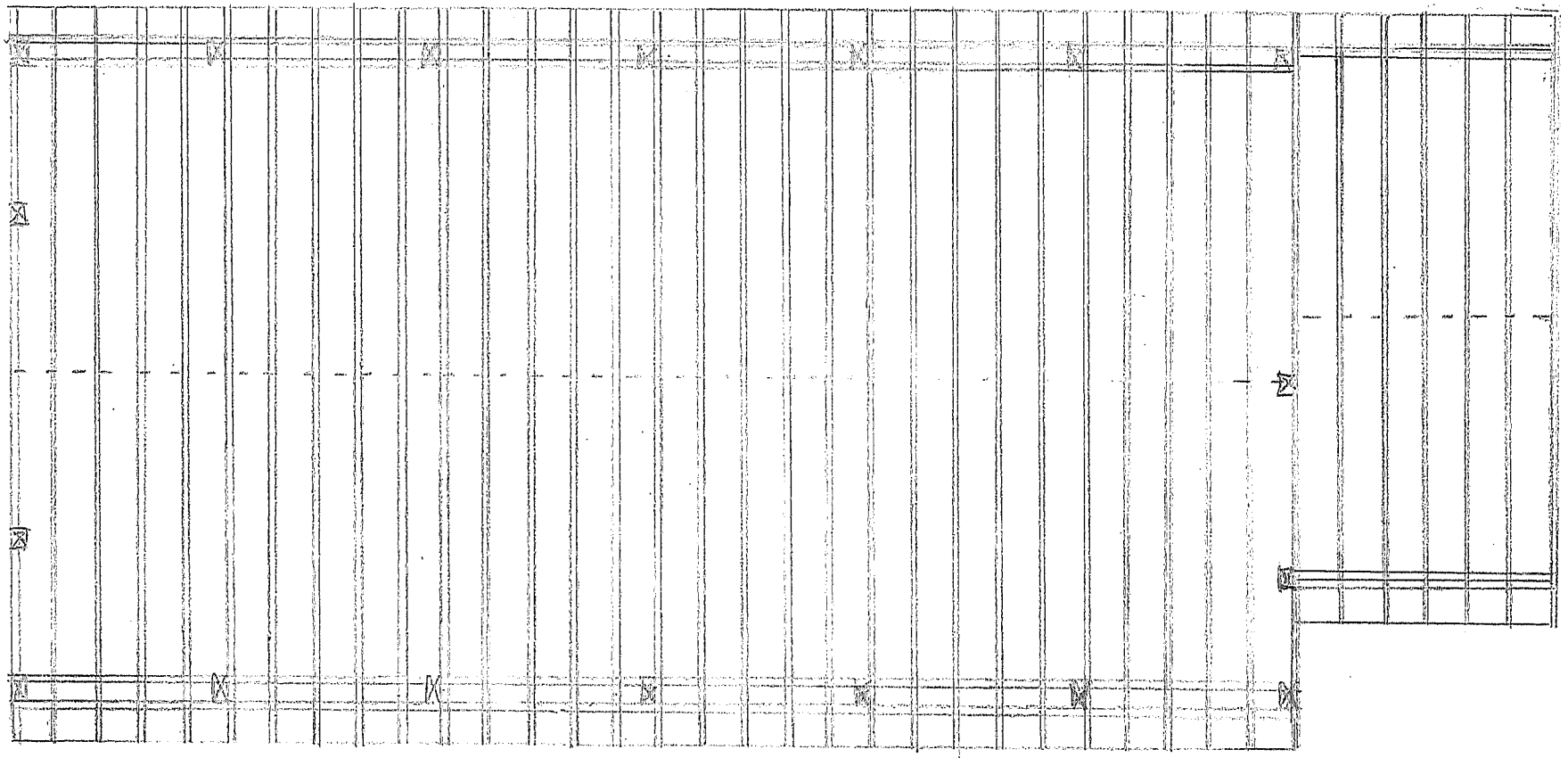
Post Frame Building
6x6 Post Treated



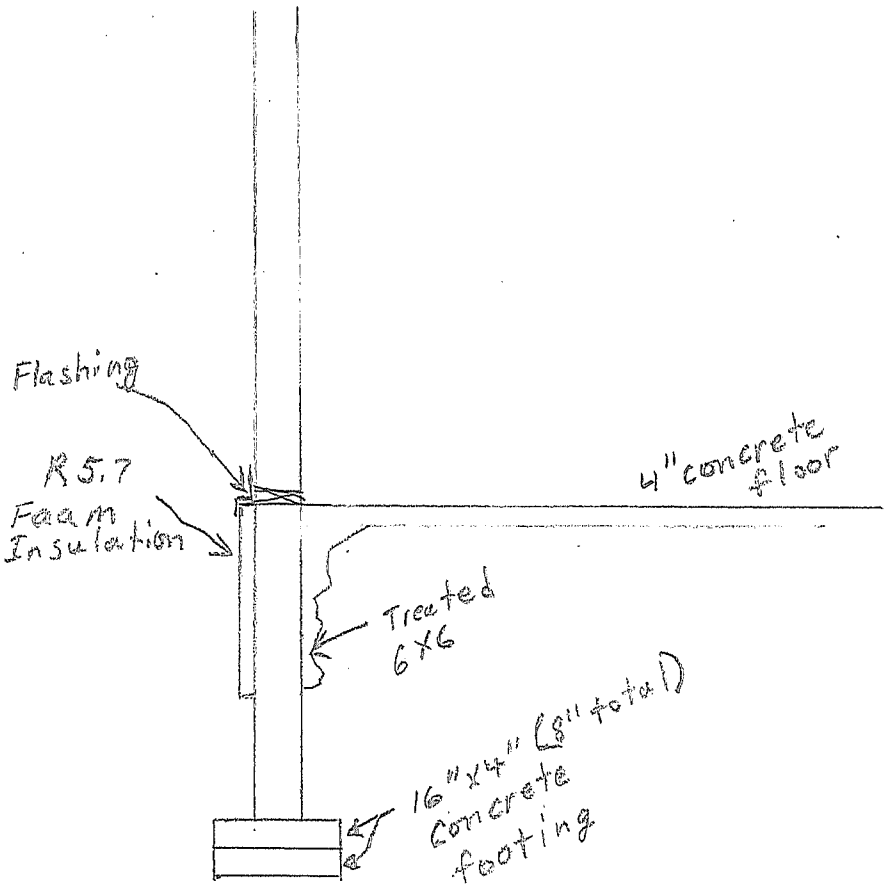
Truss Layout

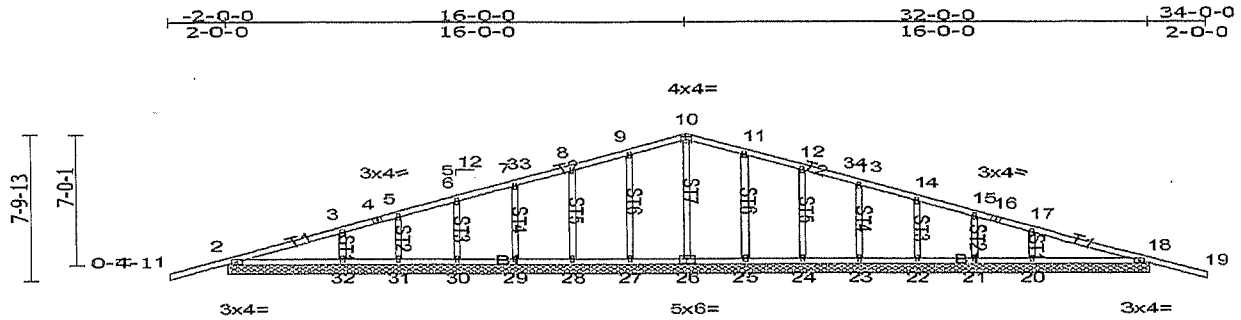
- 5 | 12
- 2' O.C.
- 2X6 Soffit + fascia





1/2" Scale


Flashing
R 5.7
Foam
Insulation
4" concrete
floor
Treated
6x6
16"x4" (8" total)
Concrete
footing



Scale = 1:89

32-0-0

Plate Offsets (X, Y): [26:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Ps/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	7.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	18	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-R								
BCDL	10.0										Weight: 134 lb	FT = 15%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 SPF Stud

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 32-0-0.
(lb) - Max Horiz 2=-98 (LC 15)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 18, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32
Max Grav All reactions 250 (lb) or less at joint(s) 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 except 2=278 (LC 21), 18=278 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Ps=20.8 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
5) Roof design snow load has been reduced to account for slope.
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
8) All plates are 1.5x4 MT20 unless otherwise indicated.
9) Gable requires continuous bottom chord bearing.
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20.
14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

MENARDS® Design-It® Residential Post Frame

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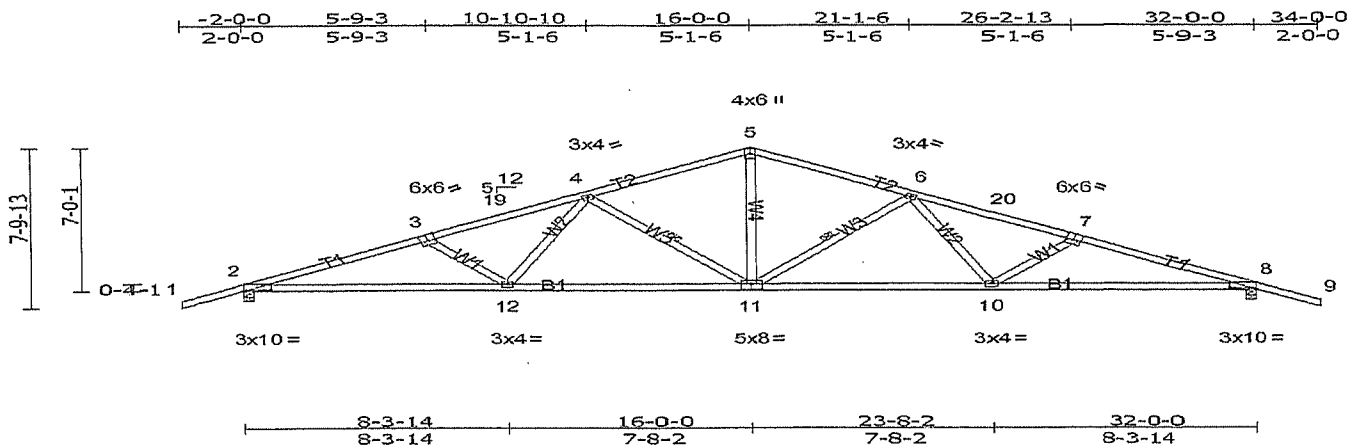

Scale = 1:81.2

Plate Offsets (X, Y): [2:0-10-0,0-0-10], [3:0-3-0,Edge], [7:0-3-0,Edge], [8:0-10-0,0-0-10], [11:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	50.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.37	11	>999	240	MT20	197/144
Snow (Ps/Pg)	48.5/70.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.52	11-12	>737	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.17	8	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 123 lb	FT = 15%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2

REACTIONS (lb/size) 2=2318/0-3-8, (req. 0-3-12), 8=2318/0-3-8, (req. 0-3-12)
Max Horiz 2=-98 (LC 15)
Max Uplift 2=-132 (LC 14), 8=-132 (LC 15)
Max Grav 2=2372 (LC 2), 8=2372 (LC 2)

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-0-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-11, 6-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4586/439, 3-19=-4111/388, 4-19=-3998/397, 4-5=-2896/343, 5-6=-2896/343, 6-20=-3998/397, 7-20=-4111/388, 7-8=-4586/439
BOT CHORD 2-12=-305/4138, 11-12=-204/3369, 10-11=-204/3369, 8-10=-305/4138
WEBS 3-12=-611/142, 4-12=0/669, 4-11=-1379/173, 5-11=-144/1598, 6-11=-1379/173, 6-10=0/669, 7-10=-611/142

JOINT STRESS INDEX
2 = 0.94, 3 = 0.78, 4 = 0.72, 5 = 0.77, 6 = 0.72, 7 = 0.78, 8 = 0.94, 10 = 0.65, 11 = 0.86 and 12 = 0.65

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=50.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=70.0 psf (ground snow); Ps=48.5 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Roof design snow load has been reduced to account for slope.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 48.5 psf on overhangs non-concurrent with other live loads.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) WARNING: Required bearing size at joint(s) 2, 8 greater than input bearing size.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 2 and 132 lb uplift at joint 8.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

MENARDS® Design-It® Residential Post Frame

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