

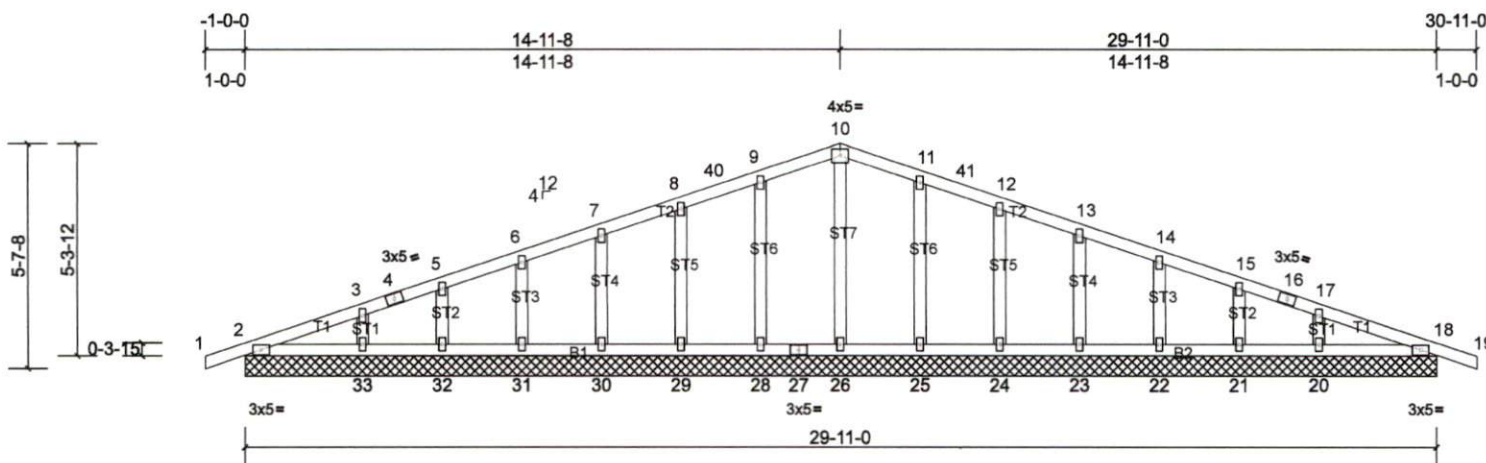
Job Q-2500804-1	Truss T1GE	Truss Type Common Supported Gable	Qty 2	Ply 1	Gumm Barn-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

Run: 8.72 S Apr 24 2024 Print: 8.720 S Apr 24 2024 MiTek Industries, Inc. Fri Apr 11 11:26:20

Page: 1

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Scale = 1:55.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	n/a	37	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							
										Weight: 145 lb FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
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 29-11-0.
(lb) - Max Horiz 2=-46 (LC 9), 34=-46 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 18, 20, 21, 22, 23, 24, 25, 28, 29, 30, 31, 32, 33, 34, 37
Max Grav All reactions 250 (lb) or less at joint(s) 2, 18, 20, 21, 22, 23, 24, 25, 26, 28, 29, 30, 31, 32, 33, 34, 37

FORCES

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=30ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 14-11-8, Corner(3R) 14-11-8 to 17-11-8, Exterior(2N) 17-11-8 to 30-11-0 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18, 2, 18.

LOAD CASE(S) Standard

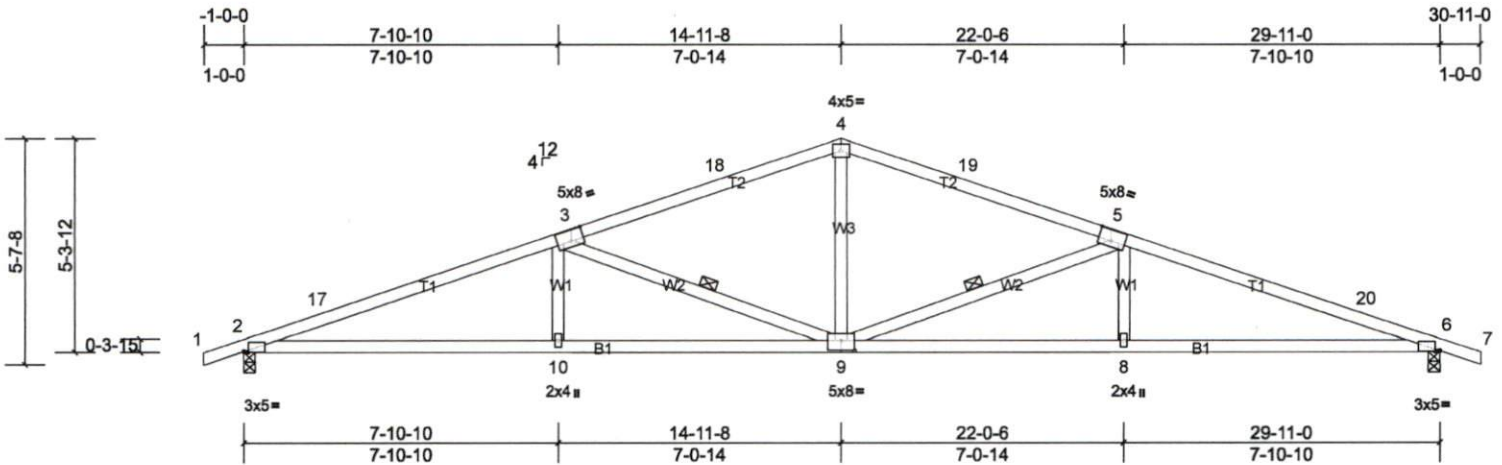
Job Q-2500804-1	Truss T1	Truss Type Common	Qty 26	Ply 1	Gumm Barn-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Scale = 1:55.5

Plate Offsets (X, Y): [2:0-1-6,Edge], [3:0-3-12,0-3-4], [5:0-3-12,0-3-4], [6:0-1-6,Edge], [9:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.17	8-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.37	8-16	>983	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.11	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS							Weight: 131 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING

TOP CHORD
BOT CHORD
WEBS

Structural wood sheathing directly applied or 2-7-2 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.
1 Row at midpt 3-9, 5-9

REACTIONS (lb/size) 2=1257/0-3-8, (min. 0-2-0), 6=1257/0-3-8, (min. 0-2-0)
Max Horiz 2=-46 (LC 9)
Max Uplift 2=-137 (LC 11), 6=-137 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-2929/247, 3-17=-2884/272, 3-18=-1983/199, 4-18=-1910/222, 4-19=-1910/222, 5-19=-1983/199, 5-20=-2884/272, 6-20=-2929/247
BOT CHORD 2-10=-185/2736, 9-10=-194/2713, 8-9=-194/2713, 6-8=-185/2736
WEBS 3-9=-991/144, 4-9=-22/865, 5-9=-991/144

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 14-11-8, Exterior(2R) 14-11-8 to 17-11-8, Interior (1) 17-11-8 to 30-11-0 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
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 2 and 137 lb uplift at joint 6.

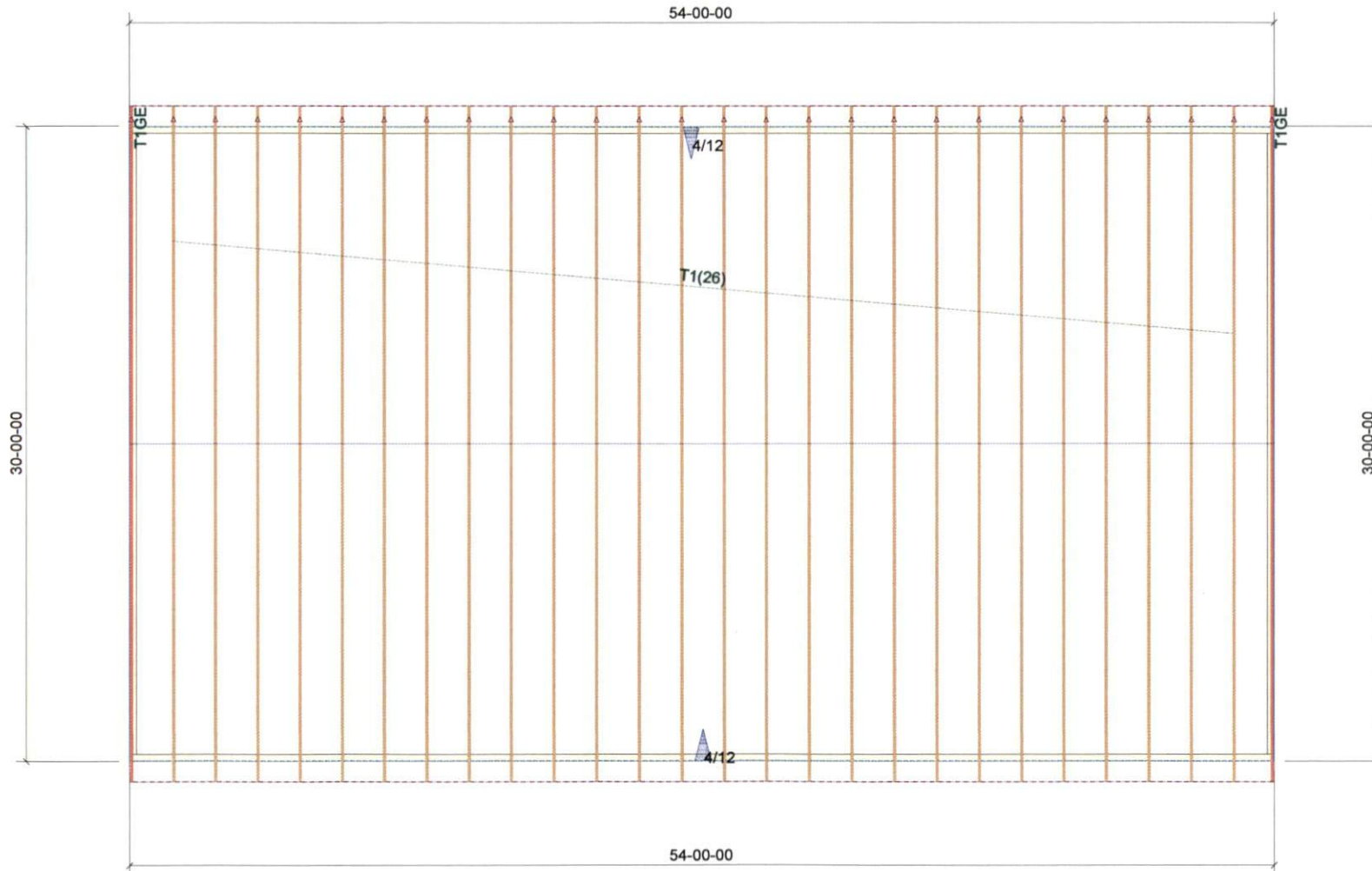
LOAD CASE(S) Standard

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

Design based on plans and/or revisions dated :
NA
Plans and/or revisions received on :
04/10/25

THIS LAYOUT IS TO BE USED AS A TRUSS PLACEMENT GUIDE ONLY.
PLEASE REFER TO BUILDING PLANS FOR BUILDING CONSTRUCTION AND DETAILS,
SUCH AS PLUMBING OR DUCT DROPS.

**PROPOSED DESIGN-
NOT FOR
CONSTRUCTION**



Notes:
1. Exterior dimensions shown are assumed to be:
□ Out-to-out of stud
□ Out-to-out of sheathing
□ Out-to-out of
2. Adjust truss locations as needed for plumbing and mechanical clearance. Unless otherwise noted, trusses may be shifted as long as O.C. spacing shown is not exceeded.
3. Do not cut, drill, or otherwise damage any part of any truss without prior approval from Peak Truss.
4. Do not approve drawings if any information herein is unclear. Once ordered trusses will be fabricated as approved.
5. Please contact Peak Truss Builders with any questions. We are available to help any way we can. We can be reached at 919-545-5555 or sales@peaktruss.com

Roof Truss Loading specified by building designer on Residential jobs
Top Chord Live Load 20.0 lb/ft²
Top Chord Dead Load 10.0 lb/ft²
Bottom Chord Live Load 0.0 lb/ft²
Bottom Chord Dead Load 10.0 lb/ft²

Trusses are designed for additional storage load wherever a 42"x24" box will fit between the webs.

Floor Truss Loading specified by building designer on Residential jobs
Top Chord Live Load 40.0 lb/ft²
Top Chord Dead Load 10.0 lb/ft²
Bottom Chord Live Load 0.0 lb/ft²
Bottom Chord Dead Load 5.0 lb/ft²

Floor Live Load deflection limit L/480
Roof Live Load deflection limit L/240

This layout has been designed using the IRC 2021 building code.

Model created using a wind speed of 115 mph specified for Wake County.

△ - This symbol denotes left end of truss as shown on truss drawings
● - Approximate location of toilet drop. Builder please confirm.

Truss connections by others:
Ⓜ - Nailed
Ⓛ - Ledger

Overhang: 12"
Depth: NA
Spacing: 2' OC
Wall Types

Load Bearing
Non Load Bearing

Job #

Q-2500804

Gumm Barn

Fuquay Varina NC

Unit / Lot:

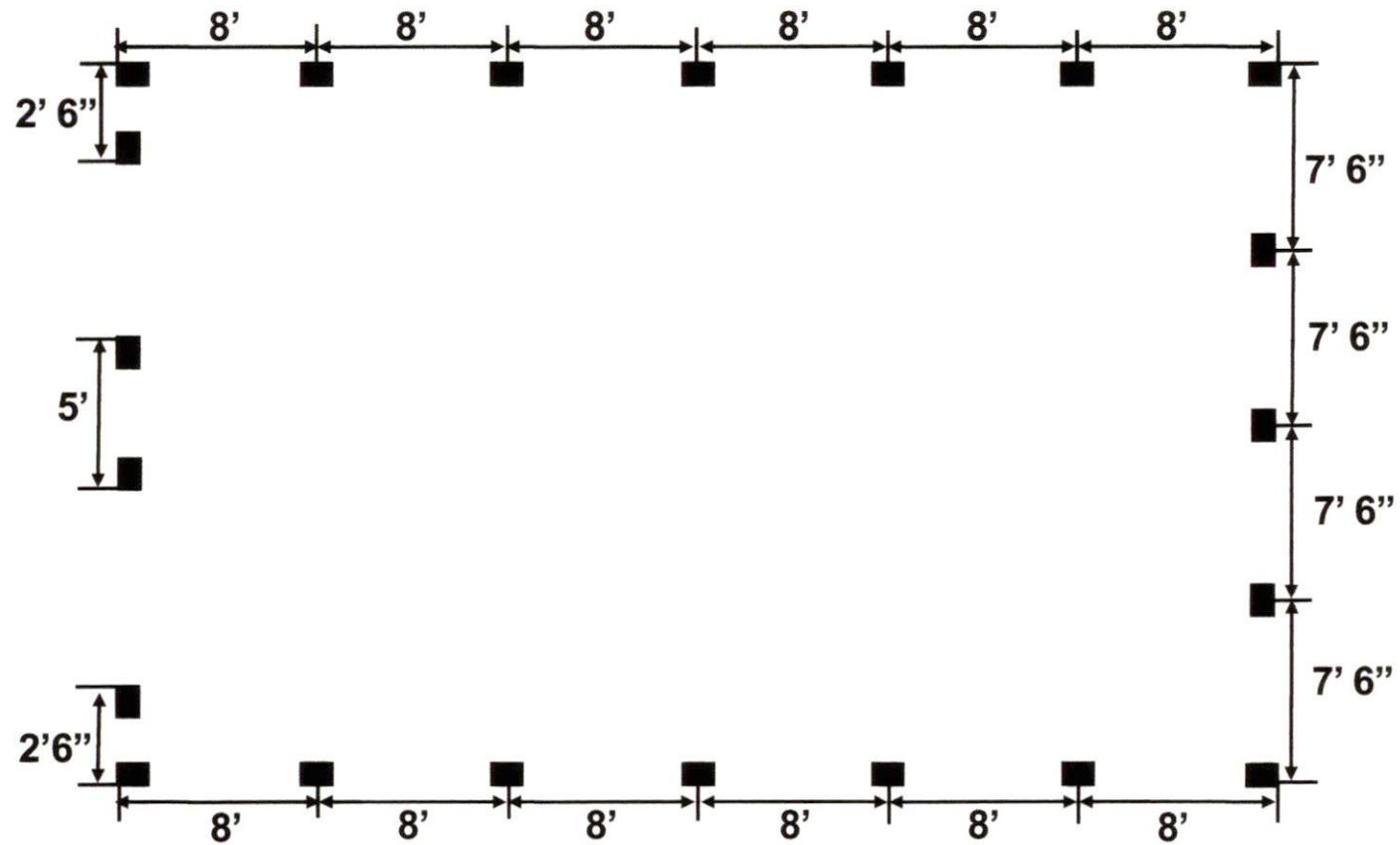
Layout Creation Date:

4/11/2025

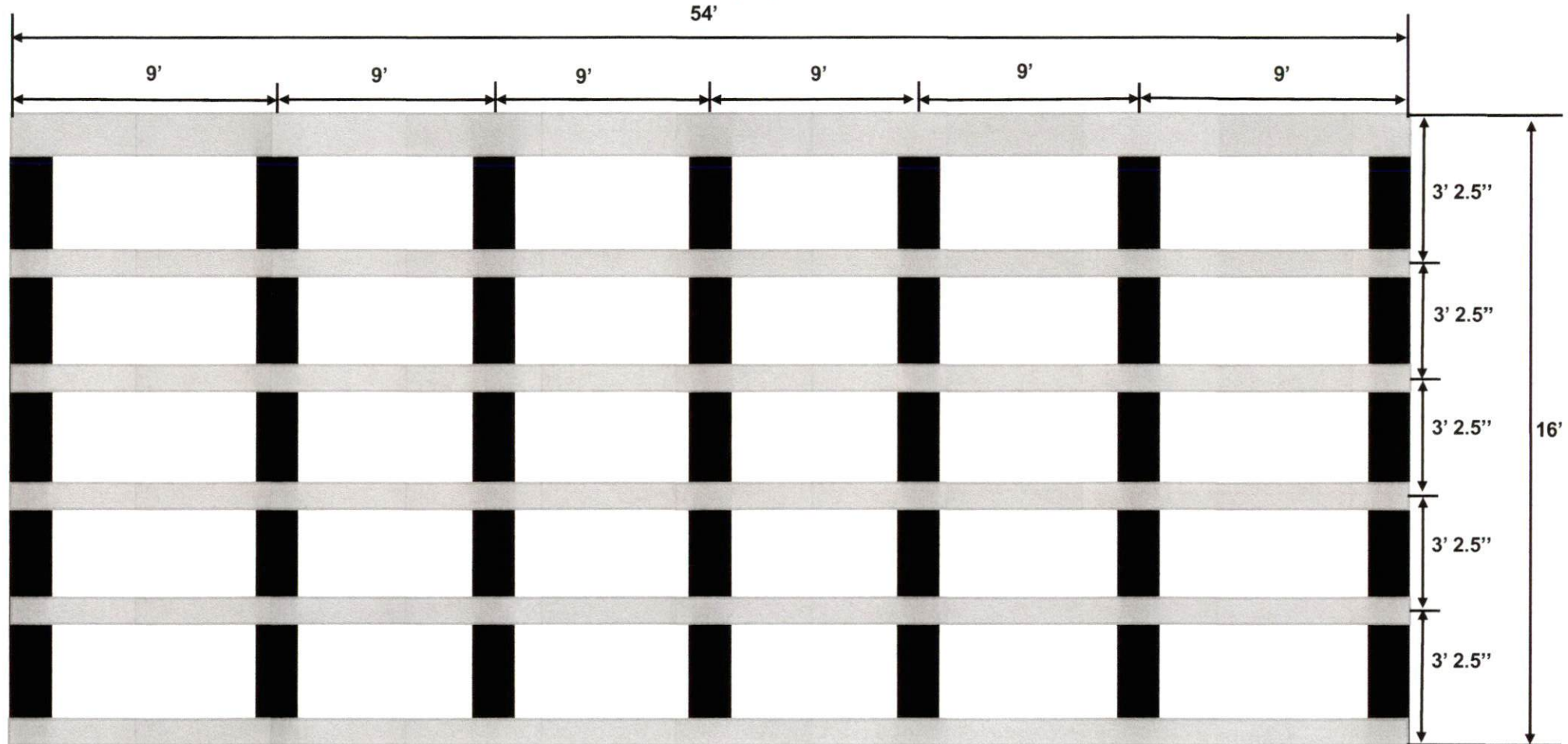
Valued Customer

**Peak Truss
Builders, LLC**
PO Box 340, New Hill, NC 27562

POST DIAGRAM



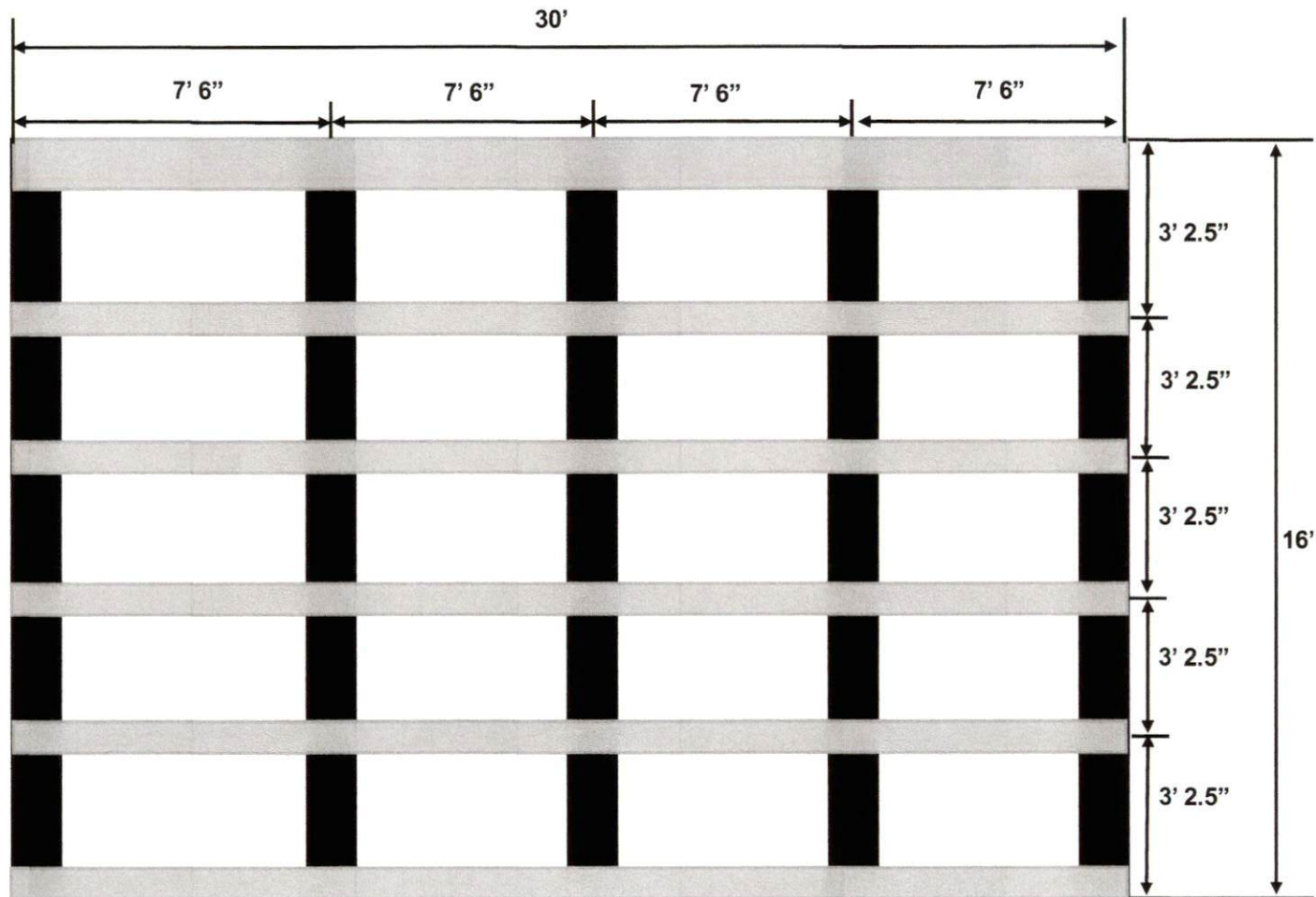
SIDE LAYOUT



Horizontal Supports 2" x 8" for top, 2" x 6" for all others

Vertical beams are 6" x 8" x 20' pressure treated

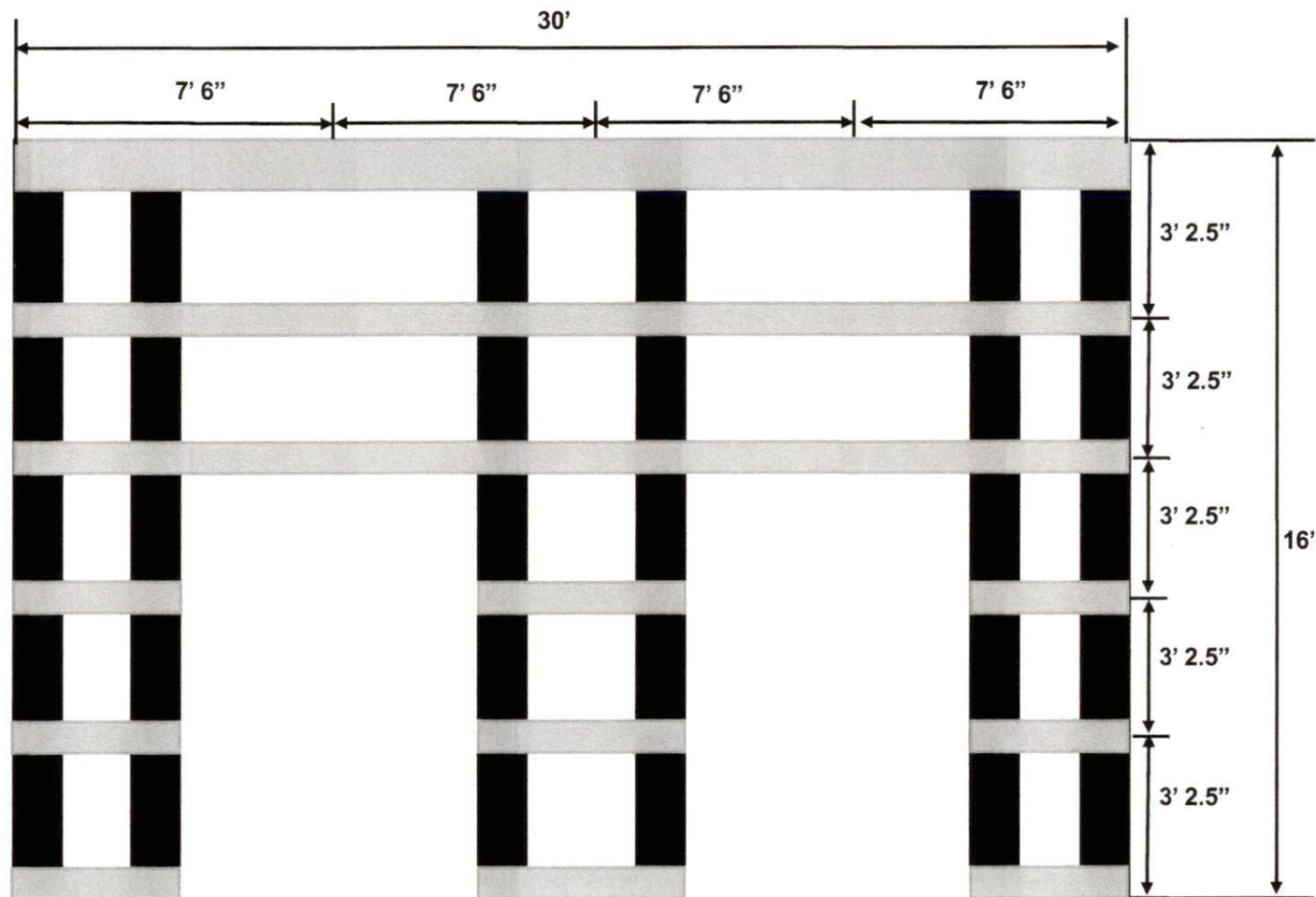
REAR LAYOUT



Horizontal Supports 2" x 8" for top, 2" x 6" for all others

Vertical beams are 6" x 8" x 20' pressure treated

FRONT LAYOUT



Horizontal Supports 2" x 8" for top, 2" x 6" for all others

Vertical beams are 6" x 8" x 20' pressure treated