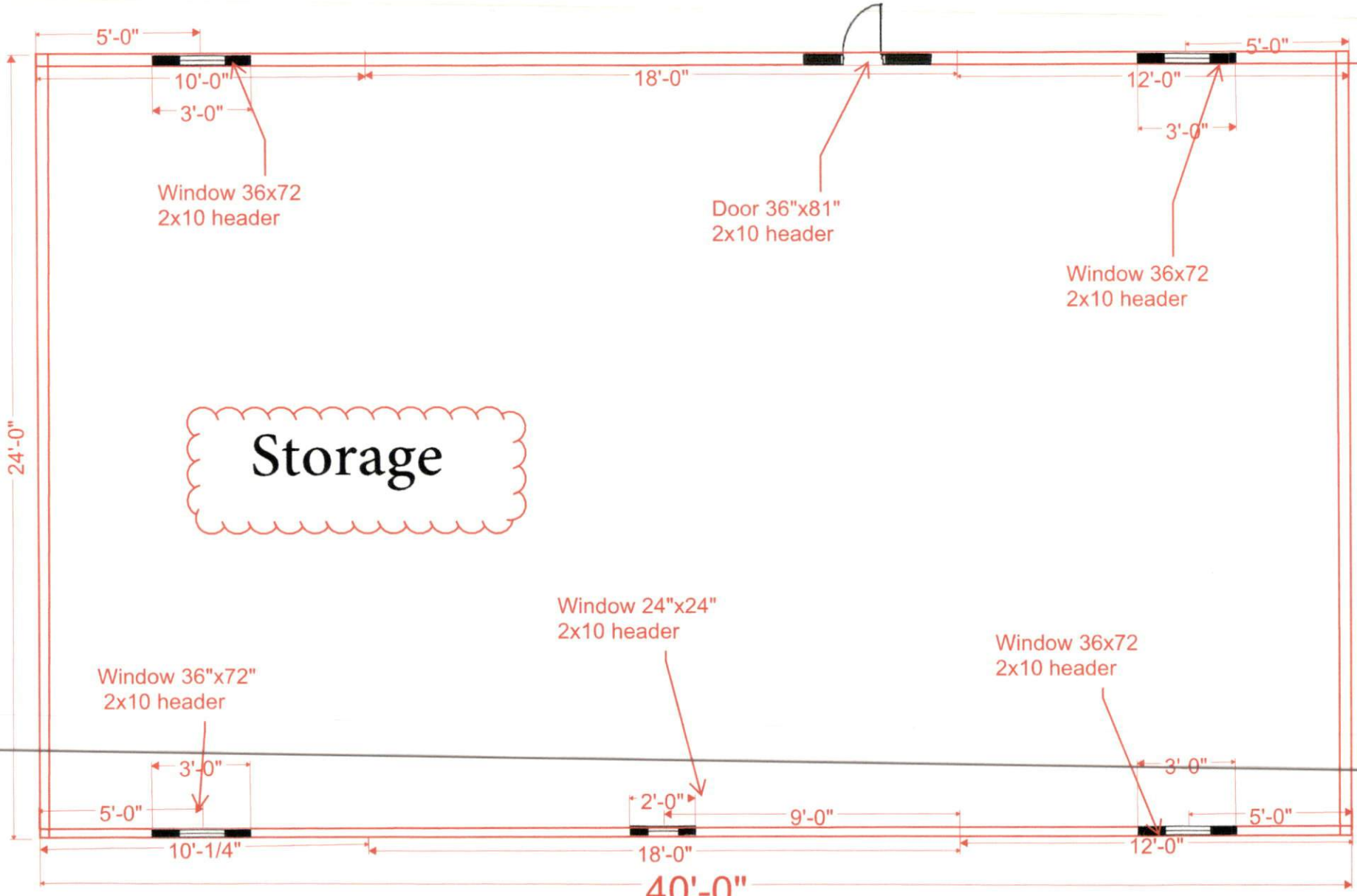


Walls 2x4x105"
 Roof pitch 4/12
 2x10 Headers
 Manufactured roof trusses

Footing all exterior walls
 12"x12"

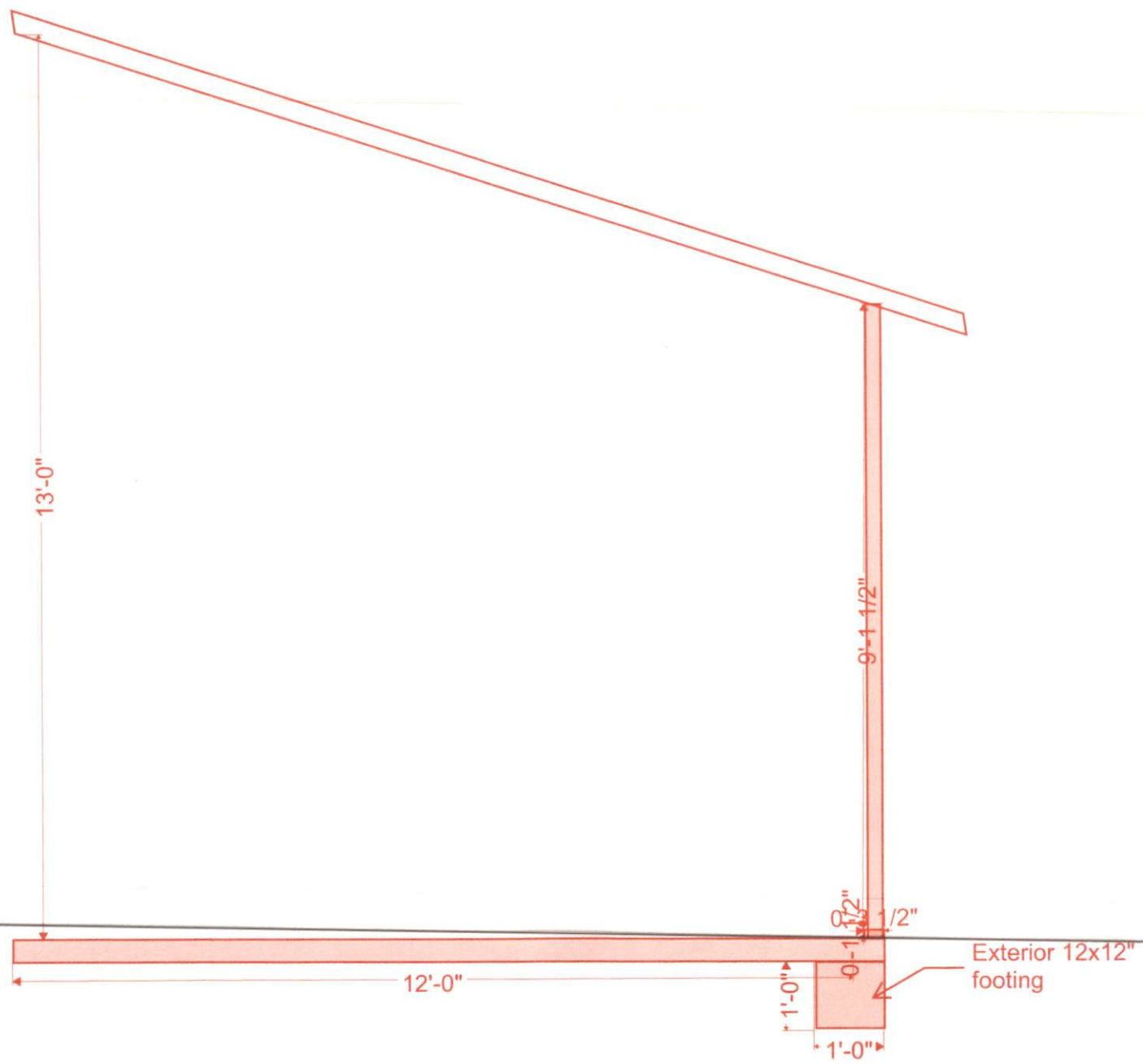
Back



Titan Roberts rd

Front

1/4"=1'



$1/4''=1'$ Scale

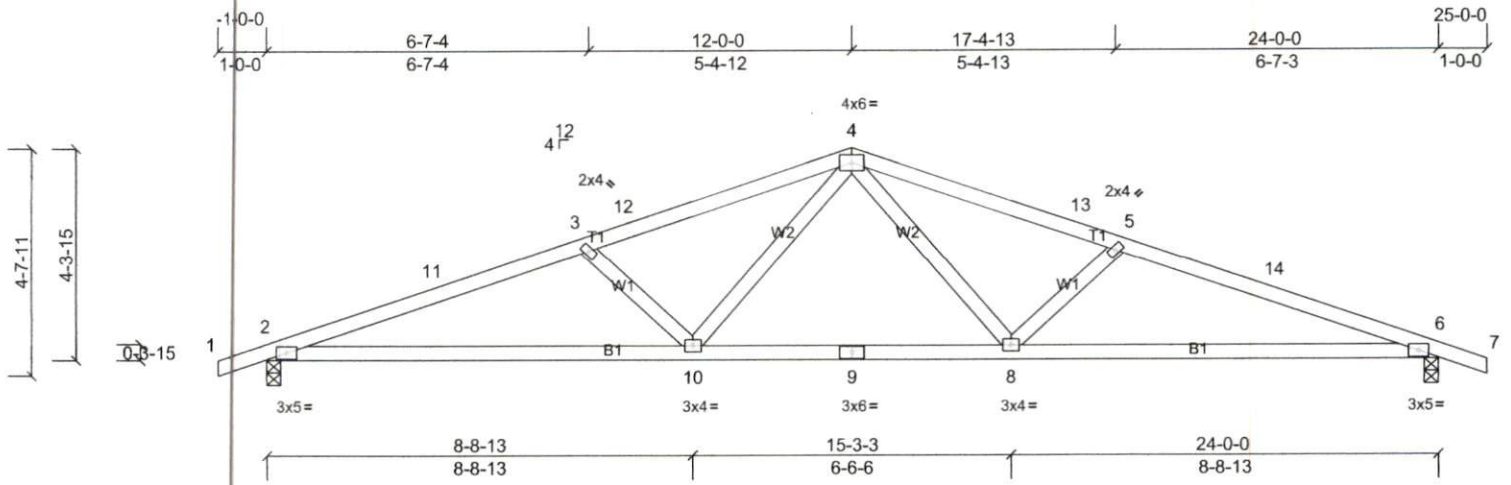
Job 24x40	Truss T1	Truss Type Common	Qty 19	Ply 1	Job Reference (optional)
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84 Components, Kings Mountain, NC 28086

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Scale = 1:45.7

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

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	0.62	Vert(LL)	-0.19	2-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.42	2-10	>675	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.07	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 100 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP Np.2
 BOT CHORD 2x4 SP Np.2
 WEBS 2x4 SP Np.2

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 2-11-8 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 (lb/size) 2=1017/0-3-8, (min. 0-1-8), 6=1017/0-3-8, (min. 0-1-8)
 Max Horiz 2=-57 (LC 13)
 Max Uplift 2=-75 (LC 8), 6=-75 (LC 9)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-11=-2219/225, 3-11=-2165/238, 3-12=-1921/171, 4-12=-1861/190, 4-13=-1861/190, 5-13=-1921/171, 5-14=-2166/238,
 6-14=-2220/225
 BOT CHORD 2-10=-170/2059, 9-10=-57/1402, 8-9=-57/1402, 6-8=-176/2059
 WEBS 4-8=-16/590, 5-8=-422/152, 4-10=-16/590, 3-10=-422/152

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 3-6-6, Interior (1) 3-6-6 to 12-0-0, Exterior(2R) 12-0-0 to 16-6-6, Interior (1) 16-6-6 to 25-0-0 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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 1-00-00 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 2 and 75 lb uplift at joint 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

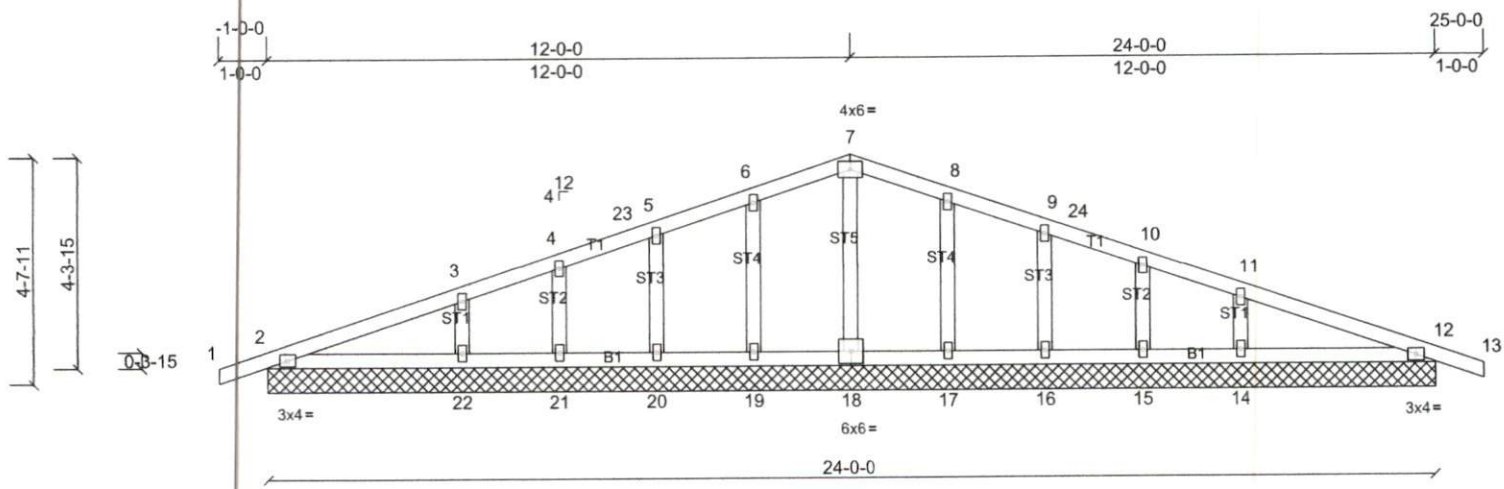
Job 24x40	Truss T1GE	Truss Type Common Supported Gable	Qty 2	Ply 1	Job Reference (optional)
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84 Components, Kings Mountain, NC 28086

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Scale = 1:45.9

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 107 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.2

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.

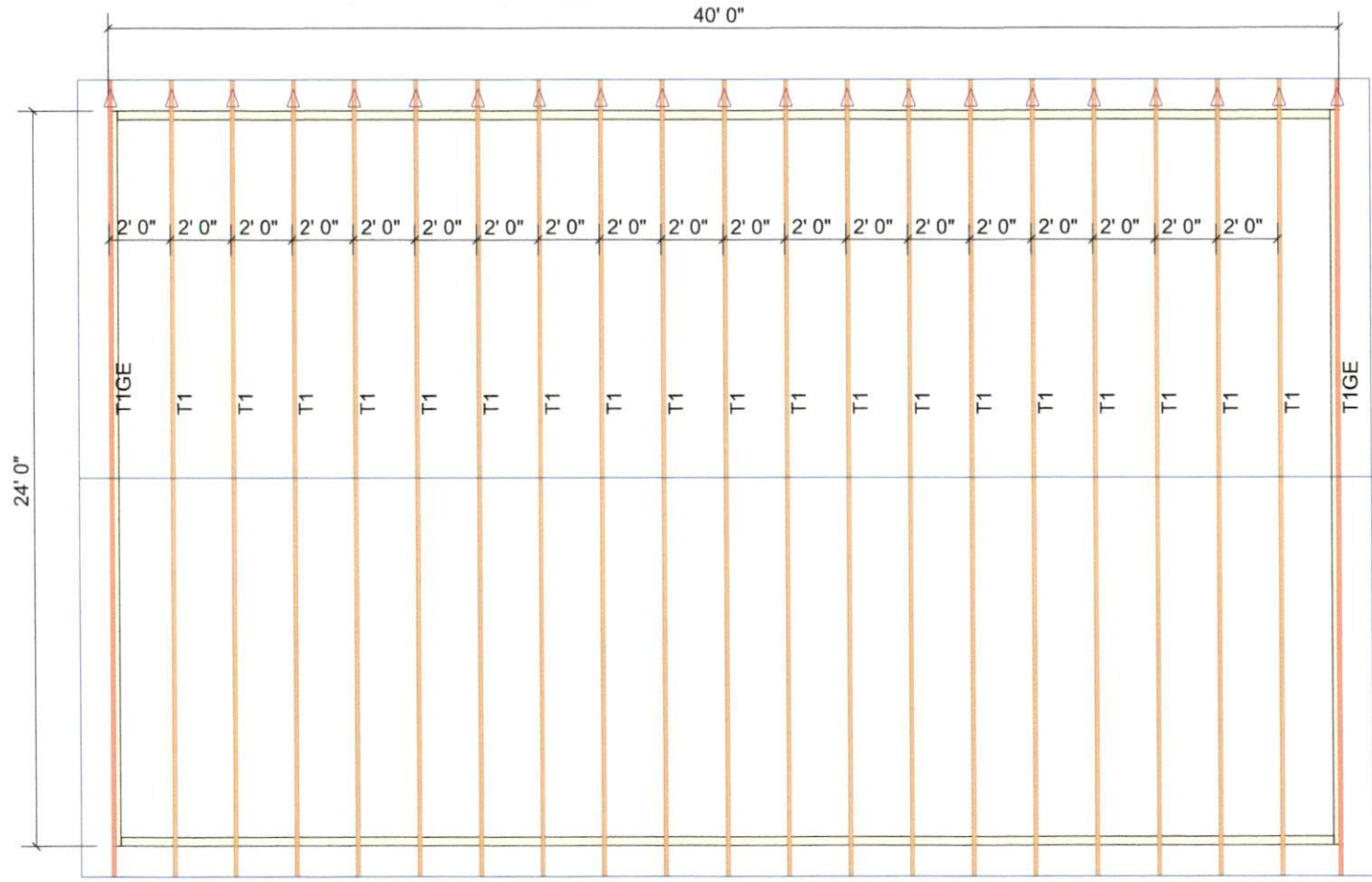
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 24-0-0.
 (lb) - Max Horiz 2=-57 (LC 17)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 12, 14, 15, 16, 17, 19, 20, 21, 22
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 12, 15, 16, 17, 18, 19, 20, 21 except 14=311 (LC 1), 22=311 (LC 1)

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; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 3-6-6, Exterior(2N) 3-6-6 to 12-0-0, Corner(3R) 12-0-0 to 16-6-6, Exterior(2N) 16-6-6 to 25-0-0 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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 1-00-00 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, 12, 19, 20, 21, 22, 17, 16, 15, 14.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Hardware List:	
42	H2.5A



84 Components
 420 Dixon Dairy Rd Kings Mountain NC
 28086 United States
 Office: (704) 937-3712

84 LUMBER - NORTH CHARLOTTE
2434 LEE LAWING RD - ELITE
MANAGEMENT GROUP

2428

Job# -

Location Kings Mountain

Designer
 Estimator

DO NOT CUT, NOTCH, OR BORE HOLES UNLESS SPECIFIC, WRITTEN PERMISSION IS PROVIDED BY AN AUTHORIZED REPRESENTATIVE OF 84 LUMBER.

▲ Indicates LEFT END of Truss
TRUSS INSTALLATION REQUIRES TEMPORARY AND PERMANENT BRACING. GENERAL GUIDANCE IS PROVIDED IN 84 LUMBER'S B-1 AND B-3. THESE ARE INCLUDED WITH EACH JOB IN YOUR TRUSS PACKET.

Sheet # 1 of 1

Roof Truss Placement Plan

NOT TO SCALE

DESIGNED DATE

7/26/2023