

Job 28342	Truss TR1	Truss Type FAN	Qty 31	Ply 1	David Johnson/Cummings
C&R Building Supply, Autryville NC					Job Reference (optional)

8.430 s Jan 20 2021 MITek Industries, Inc. Mon Nov 18 15:37:40 2024 Page 1
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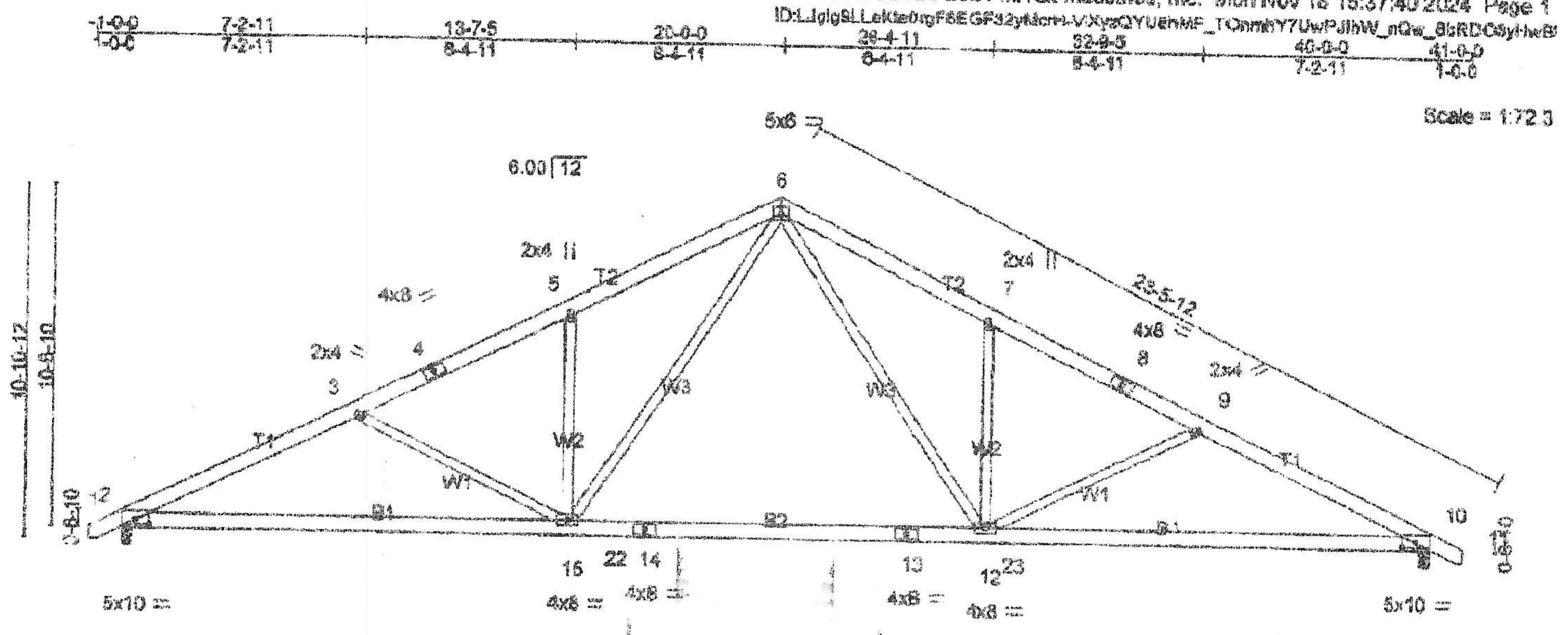


Plate Offsets (X,Y) - [2:0-5-0,0-1-12], [10:0-5-0,0-1-12]	13-7-5 13-7-5	28-4-11 12-0-5	40-0-0 13-7-5
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LOADING (psf)	SPACING	CSL	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.64	Vert(LL) -0.41 12-15 >999 360		
BCLL 0.0	Lumber DOL 1.15	WB 0.52	Vert(CT) -0.57 12-15 >849 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.08 10 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.08 15 >999 240	Weight: 278 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Excellent
 W5. 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) 2=1653/0-3-8 (min. 0-2-0), 10=1653/0-3-8 (min. 0-2-0)
 Max Horz 2=167(LC 7)
 Max Grav 2=1677(LC 13), 10=1677(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3045/0, 3-4=-2661/0, 4-5=-2584/0, 5-6=-2676/71, 6-7=-2676/71,
 7-8=-2584/0, 8-9=-2661/0, 9-10=-3045/0
 BOT CHORD 2-15=0/2800, 15-22=0/1732, 14-22=0/1732, 13-14=0/1732, 13-23=0/1732,
 12-25=0/1732, 10-12=0/2676
 WEBS 5-15=-384/113, 7-12=-384/113, 3-15=-504/88, 6-15=0/1252, 6-12=0/1252,
 9-12=-304/88

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=8.0psf; BCDL=6.0psf; h=20ft; B=80ft; L=40ft; eave=5ft, Cat. II; Exp B: Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R502.10.2 and referenced standard ANSI/TPI 1.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S): Standard